

DATA PACKAGE VOLATILE ORGANICS

PROJECT NAME : CTO WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : P5314

ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : P5314

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

P5314-01
P5314-02
P5314-03
P5314-04

Client Sample Number

BP-VPB-190A-TB-20241213
BP-VPB-190A-GW-678-680
BP-VPB-190A-GW-698-700
VPB190A-HYD-20241217

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 :



NYDOH CERTIFICATION NO - 11376

APPROVED

Date: 12/30/2024

By Mohammad Ahmed (Laboratory Manager) at 10:53 am, Jan 03, 2025

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager : Ernie Wu

Chemtech Project # P5314

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

4 Water samples were received on 12/17/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI The analysis of VOCMS Group1 was based on method 8260D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

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

The %RSD is greater than 20% in the Initial Calibration method (82X121124W.M) for t-1,3-Dichloropropene, Dibromochloromethane, Bromoform these compounds are passing on Quadratic Regression.

The Continuous Calibration File ID VX044438.D met the requirements except for Methylcyclohexane is failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

Sample BP-VPB-190A-GW-678-680 was diluted due to high concentration.

E. Additional Comments:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).”

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

The not QT review data is reported in the Miscellaneous.

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_____



APPROVED

By Mohammad Ahmed(Laboratory Manager) at 10:53 am, Jan 03, 2025

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 flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P5314

MATRIX: Water

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 (82x121124w.M) for t-1,3-Dichloropropene, Dibromochloromethane, Bromoform these compounds are passing on Quadratic Regression. The Continuous Calibration File ID VX044438.D met the requirements except for Methylcyclohexane is failing high but no positive hit in associate sample therefore no corrective action taken.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

ADDITIONAL COMMENTS:

Sample BP-VPB-190A-GW-678-680 was diluted due to high concentration.

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

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

NA NO YES

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

The not QT review data is reported in the Miscellaneous.

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

APPROVED

By Mohammad Ahmed(Laboratory Manager) at 10:53 am, Jan 03, 2025

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5314

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 Custody

✓

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: Mohammad Ahmed

Date: 01-03-2025

LAB CHRONICLE

OrderID:	P5314	OrderDate:	12/17/2024 3:43:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	L51,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5314-01	BP-VPB-190A-TB-202 41213	Water			12/13/24			12/17/24
			VOCMS Group1	8260-Low			12/20/24	
P5314-02	BP-VPB-190A-GW-678 -680	Water			12/13/24			12/17/24
			VOCMS Group1	8260-Low			12/20/24	
P5314-02DL	BP-VPB-190A-GW-678 -680DL	Water			12/13/24			12/17/24
			VOCMS Group1	8260-Low			12/20/24	
P5314-03	BP-VPB-190A-GW-698 -700	Water			12/13/24			12/17/24
			VOCMS Group1	8260-Low			12/20/24	
P5314-04	VPB190A-HYD-20241 217	Water			12/17/24			12/17/24
			VOCMS Group1	8260-Low			12/20/24	

Hit Summary Sheet
SW-846

SDG No.: P5314
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	BP-VPB-190A-GW-678-680								
P5314-02	BP-VPB-190A-GW	Water	1,1,2-Trichlorotrifluoroethane	5.40		0.25	0.50	1.00	ug/L
P5314-02	BP-VPB-190A-GW	Water	1,1-Dichloroethene	1.40		0.26	0.75	1.00	ug/L
P5314-02	BP-VPB-190A-GW	Water	Acetone	5.00		1.40	3.80	5.00	ug/L
P5314-02	BP-VPB-190A-GW	Water	Carbon Tetrachloride	1.40		0.25	0.50	1.00	ug/L
P5314-02	BP-VPB-190A-GW	Water	cis-1,2-Dichloroethene	1.60		0.25	0.75	1.00	ug/L
P5314-02	BP-VPB-190A-GW	Water	Chloroform	0.85	J	0.26	0.50	1.00	ug/L
P5314-02	BP-VPB-190A-GW	Water	Trichloroethene	290	E	0.32	0.75	1.00	ug/L
P5314-02	BP-VPB-190A-GW	Water	1,1,2-Trichloroethane	1.30		0.21	0.50	1.00	ug/L
Total Voc :				307					
Total Concentration:				307					
Client ID:	BP-VPB-190A-GW-678-680DL								
P5314-02DL	BP-VPB-190A-GW	Water	1,1,2-Trichlorotrifluoroethane	5.70	D	1.30	2.50	5.00	ug/L
P5314-02DL	BP-VPB-190A-GW	Water	1,1-Dichloroethene	1.90	JD	1.30	3.80	5.00	ug/L
P5314-02DL	BP-VPB-190A-GW	Water	Acetone	8.10	JD	7.00	18.8	25.0	ug/L
P5314-02DL	BP-VPB-190A-GW	Water	cis-1,2-Dichloroethene	1.90	JD	1.30	3.80	5.00	ug/L
P5314-02DL	BP-VPB-190A-GW	Water	Trichloroethene	300	D	1.60	3.80	5.00	ug/L
P5314-02DL	BP-VPB-190A-GW	Water	1,1,2-Trichloroethane	1.80	JD	1.10	2.50	5.00	ug/L
Total Voc :				319					
Total Concentration:				319					
Client ID:	BP-VPB-190A-GW-698-700								
P5314-03	BP-VPB-190A-GW	Water	Acetone	10.9		1.40	3.80	5.00	ug/L
P5314-03	BP-VPB-190A-GW	Water	2-Butanone	1.70	J	1.30	2.50	5.00	ug/L
P5314-03	BP-VPB-190A-GW	Water	Trichloroethene	4.40		0.32	0.75	1.00	ug/L
Total Voc :				17.0					
Total Concentration:				17.0					
Client ID:	VPB190A-HYD-20241217								
P5314-04	VPB190A-HYD-20	Water	Acetone	2.70	J	1.40	3.80	5.00	ug/L
Total Voc :				2.70					
Total Concentration:				2.70					



QC SUMMARY

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Surrogate Summary

SDG No.: **P5314**

Client: **Tetra Tech NUS, Inc.**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P5314-01	BP-VPB-190A-TB-20241213	1,2-Dichloroethane-d4	50	43.0	86	81	118
		Dibromofluoromethane	50	46.2	92	80	119
		Toluene-d8	50	50.5	101	89	112
		4-Bromofluorobenzene	50	47.1	94	85	114
P5314-02	BP-VPB-190A-GW-678-680	1,2-Dichloroethane-d4	50	42.7	85	81	118
		Dibromofluoromethane	50	48.2	96	80	119
		Toluene-d8	50	51.5	103	89	112
		4-Bromofluorobenzene	50	50.0	100	85	114
P5314-02DL	BP-VPB-190A-GW-678-680DL	1,2-Dichloroethane-d4	50	43.2	86	81	118
		Dibromofluoromethane	50	47.8	96	80	119
		Toluene-d8	50	50.9	102	89	112
		4-Bromofluorobenzene	50	47.0	94	85	114
P5314-03	BP-VPB-190A-GW-698-700	1,2-Dichloroethane-d4	50	42.3	85	81	118
		Dibromofluoromethane	50	47.1	94	80	119
		Toluene-d8	50	51.1	102	89	112
		4-Bromofluorobenzene	50	46.3	93	85	114
P5314-04	VPB190A-HYD-20241217	1,2-Dichloroethane-d4	50	42.8	86	81	118
		Dibromofluoromethane	50	46.8	94	80	119
		Toluene-d8	50	50.6	101	89	112
		4-Bromofluorobenzene	50	45.5	91	85	114
VX1220WBL01	VX1220WBL01	1,2-Dichloroethane-d4	50	44.1	88	81	118
		Dibromofluoromethane	50	47.5	95	80	119
		Toluene-d8	50	52.0	104	89	112
		4-Bromofluorobenzene	50	48.4	97	85	114
VX1220WBS01	VX1220WBS01	1,2-Dichloroethane-d4	50	42.7	85	81	118
		Dibromofluoromethane	50	48.5	97	80	119
		Toluene-d8	50	48.7	97	89	112
		4-Bromofluorobenzene	50	46.4	93	85	114
VX1220WBSD0	VX1220WBSD01	1,2-Dichloroethane-d4	50	43.6	87	81	118
		Dibromofluoromethane	50	49.3	99	80	119
		Toluene-d8	50	49.9	100	89	112
		4-Bromofluorobenzene	50	48.6	97	85	114

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5314

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VX044441.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1220WBS01	Chloromethane	20	18.7	ug/L	94			50	139	
	Vinyl chloride	20	17.9	ug/L	90			58	137	
	Bromomethane	20	18.8	ug/L	94			53	141	
	Chloroethane	20	19.8	ug/L	99			60	138	
	Trichlorofluoromethane	20	15.3	ug/L	77			65	141	
	1,1,2-Trichlorotrifluoroethane	20	18.5	ug/L	93			70	136	
	1,1-Dichloroethene	20	18.9	ug/L	95			71	131	
	Acetone	100	75.7	ug/L	76			39	160	
	Carbon disulfide	20	16.4	ug/L	82			64	133	
	Methyl tert-butyl Ether	20	17.6	ug/L	88			71	124	
	Methylene Chloride	20	19.1	ug/L	96			74	124	
	trans-1,2-Dichloroethene	20	18.7	ug/L	94			75	124	
	1,1-Dichloroethane	20	18.9	ug/L	95			77	125	
	2-Butanone	100	83.3	ug/L	83			56	143	
	Carbon Tetrachloride	20	18.9	ug/L	95			72	136	
	cis-1,2-Dichloroethene	20	18.0	ug/L	90			78	123	
	Chloroform	20	17.7	ug/L	89			79	124	
	1,1,1-Trichloroethane	20	17.5	ug/L	88			74	131	
	Methylcyclohexane	20	19.3	ug/L	97			72	132	
	Benzene	20	20.4	ug/L	102			79	120	
	1,2-Dichloroethane	20	19.2	ug/L	96			73	128	
	Trichloroethene	20	19.9	ug/L	100			79	123	
	1,2-Dichloropropane	20	19.1	ug/L	96			78	122	
	Bromodichloromethane	20	19.1	ug/L	96			79	125	
	4-Methyl-2-Pentanone	100	92.4	ug/L	92			67	130	
	Toluene	20	19.5	ug/L	98			80	121	
	t-1,3-Dichloropropene	20	17.9	ug/L	90			73	127	
	cis-1,3-Dichloropropene	20	19.2	ug/L	96			75	124	
	1,1,2-Trichloroethane	20	20.8	ug/L	104			80	119	
	2-Hexanone	100	90.4	ug/L	90			57	139	
	Dibromochloromethane	20	18.8	ug/L	94			74	126	
	Tetrachloroethene	20	20.8	ug/L	104			74	129	
	Chlorobenzene	20	19.9	ug/L	100			82	118	
	Ethyl Benzene	20	19.2	ug/L	96			79	121	
	m/p-Xylenes	40	39.8	ug/L	100			80	121	
	o-Xylene	20	19.8	ug/L	99			78	122	
	Styrene	20	19.8	ug/L	99			78	123	
	Bromoform	20	19.3	ug/L	97			66	130	
	Isopropylbenzene	20	19.9	ug/L	100			72	131	
	1,1,2,2-Tetrachloroethane	20	19.6	ug/L	98			71	121	
	1,3-Dichlorobenzene	20	20.1	ug/L	101			80	119	
	1,4-Dichlorobenzene	20	20.0	ug/L	100			79	118	
	1,2-Dichlorobenzene	20	19.8	ug/L	99			80	119	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5314

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VX044442.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1220WBSD01	Chloromethane	20	18.7	ug/L	94	0		50	139	20
	Vinyl chloride	20	18.1	ug/L	91	1		58	137	20
	Bromomethane	20	18.1	ug/L	91	3		53	141	20
	Chloroethane	20	20.3	ug/L	102	3		60	138	20
	Trichlorofluoromethane	20	15.9	ug/L	79	3		65	141	20
	1,1,2-Trichlorotrifluoroethane	20	18.3	ug/L	92	1		70	136	20
	1,1-Dichloroethene	20	18.6	ug/L	93	2		71	131	20
	Acetone	100	79.1	ug/L	79	4		39	160	20
	Carbon disulfide	20	16.8	ug/L	84	2		64	133	20
	Methyl tert-butyl Ether	20	18.0	ug/L	90	2		71	124	20
	Methylene Chloride	20	19.0	ug/L	95	1		74	124	20
	trans-1,2-Dichloroethene	20	17.9	ug/L	90	4		75	124	20
	1,1-Dichloroethane	20	18.4	ug/L	92	3		77	125	20
	2-Butanone	100	88.5	ug/L	89	7		56	143	20
	Carbon Tetrachloride	20	18.9	ug/L	95	0		72	136	20
	cis-1,2-Dichloroethene	20	18.4	ug/L	92	2		78	123	20
	Chloroform	20	18.3	ug/L	92	3		79	124	20
	1,1,1-Trichloroethane	20	17.5	ug/L	88	0		74	131	20
	Methylcyclohexane	20	19.6	ug/L	98	1		72	132	20
	Benzene	20	20.8	ug/L	104	2		79	120	20
	1,2-Dichloroethane	20	19.8	ug/L	99	3		73	128	20
	Trichloroethene	20	20.3	ug/L	102	2		79	123	20
	1,2-Dichloropropane	20	20.3	ug/L	102	6		78	122	20
	Bromodichloromethane	20	19.7	ug/L	99	3		79	125	20
	4-Methyl-2-Pentanone	100	99.0	ug/L	99	7		67	130	20
	Toluene	20	19.9	ug/L	100	2		80	121	20
	t-1,3-Dichloropropene	20	19.1	ug/L	96	6		73	127	20
	cis-1,3-Dichloropropene	20	20.2	ug/L	101	5		75	124	20
	1,1,2-Trichloroethane	20	21.6	ug/L	108	4		80	119	20
	2-Hexanone	100	97.2	ug/L	97	7		57	139	20
	Dibromochloromethane	20	19.3	ug/L	97	3		74	126	20
	Tetrachloroethene	20	20.5	ug/L	103	1		74	129	20
	Chlorobenzene	20	20.2	ug/L	101	1		82	118	20
	Ethyl Benzene	20	19.5	ug/L	98	2		79	121	20
	m/p-Xylenes	40	41.2	ug/L	103	3		80	121	20
	o-Xylene	20	20.2	ug/L	101	2		78	122	20
	Styrene	20	20.4	ug/L	102	3		78	123	20
	Bromoform	20	20.1	ug/L	101	4		66	130	20
	Isopropylbenzene	20	18.8	ug/L	94	6		72	131	20
	1,1,2,2-Tetrachloroethane	20	19.7	ug/L	99	1		71	121	20
	1,3-Dichlorobenzene	20	20.2	ug/L	101	0		80	119	20
	1,4-Dichlorobenzene	20	19.7	ug/L	99	1		79	118	20
	1,2-Dichlorobenzene	20	20.0	ug/L	100	1		80	119	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1220WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P5314

SAS No.: P5314 SDG NO.: P5314

Lab File ID: VX044440.D

Lab Sample ID: VX1220WBL01

Date Analyzed: 12/20/2024

Time Analyzed: 10:23

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1220WBS01	VX1220WBS01	VX044441.D	12/20/2024
VX1220WBSD01	VX1220WBSD01	VX044442.D	12/20/2024
BP-VPB-190A-TB-20241213	P5314-01	VX044445.D	12/20/2024
BP-VPB-190A-GW-698-700	P5314-03	VX044446.D	12/20/2024
BP-VPB-190A-GW-678-680	P5314-02	VX044447.D	12/20/2024
BP-VPB-190A-GW-678-680DL	P5314-02DL	VX044449.D	12/20/2024
VPB190A-HYD-20241217	P5314-04	VX044454.D	12/20/2024

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
 Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG NO.: P5314
 Lab File ID: VX044218.D BFB Injection Date: 12/11/2024
 Instrument ID: MSVOA_X BFB Injection Time: 10:13
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.7
75	30.0 - 60.0% of mass 95	56.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	71.1
175	5.0 - 9.0% of mass 174	5.2 (7.3) 1
176	95.0 - 101.0% of mass 174	68.7 (96.6) 1
177	5.0 - 9.0% of mass 176	4.6 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VX044219.D	12/11/2024	10:41
VSTDIC005	VSTDIC005	VX044220.D	12/11/2024	11:27
VSTDIC020	VSTDIC020	VX044221.D	12/11/2024	11:50
VSTDIC050	VSTDIC050	VX044222.D	12/11/2024	12:14
VSTDIC100	VSTDIC100	VX044223.D	12/11/2024	12:37
VSTDIC150	VSTDIC150	VX044224.D	12/11/2024	13:00

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
 Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG NO.: P5314
 Lab File ID: VX044437.D BFB Injection Date: 12/20/2024
 Instrument ID: MSVOA_X BFB Injection Time: 08:49
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.4
75	30.0 - 60.0% of mass 95	52.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	77.7
175	5.0 - 9.0% of mass 174	5.6 (7.2) 1
176	95.0 - 101.0% of mass 174	76.6 (98.5) 1
177	5.0 - 9.0% of mass 176	4.7 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX044438.D	12/20/2024	09:16
VX1220WBL01	VX1220WBL01	VX044440.D	12/20/2024	10:23
VX1220WBS01	VX1220WBS01	VX044441.D	12/20/2024	10:46
VX1220WBSD01	VX1220WBSD01	VX044442.D	12/20/2024	11:16
BP-VPB-190A-TB-20241213	P5314-01	VX044445.D	12/20/2024	12:26
BP-VPB-190A-GW-698-700	P5314-03	VX044446.D	12/20/2024	12:49
BP-VPB-190A-GW-678-680	P5314-02	VX044447.D	12/20/2024	13:13
BP-VPB-190A-GW-678-680DL	P5314-02DL	VX044449.D	12/20/2024	13:59
VPB190A-HYD-20241217	P5314-04	VX044454.D	12/20/2024	15:56
VSTDCCC050EC	VSTDCCC050	VX044464.D	12/20/2024	19:49

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG NO.: P5314
Lab File ID: VX044438.D Date Analyzed: 12/20/2024
Instrument ID: MSVOA_X Time Analyzed: 09:16
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	136445	5.54	226018	6.76	197543	10.06
UPPER LIMIT	272890	6.044	452036	7.257	395086	10.555
LOWER LIMIT	68222.5	5.044	113009	6.257	98771.5	9.555
EPA SAMPLE NO.						
BP-VPB-190A-TB-20241213	117644	5.55	208582	6.76	178072	10.06
BP-VPB-190A-GW-678-680	116922	5.55	205157	6.76	179312	10.06
BP-VPB-190A-GW-678-680DL	113918	5.54	202874	6.76	177737	10.06
BP-VPB-190A-GW-698-700	121735	5.55	211457	6.76	182367	10.06
VPB190A-HYD-20241217	120419	5.55	211996	6.76	183684	10.05
VX1220WBL01	120864	5.55	218417	6.76	193836	10.05
VX1220WBS01	146515	5.55	249173	6.76	212384	10.05
VX1220WBSD01	138719	5.54	231232	6.76	202087	10.05

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG NO.: P5314
Lab File ID: VX044438.D Date Analyzed: 12/20/2024
Instrument ID: MSVOA_X Time Analyzed: 09:16
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	95339	12.018				
UPPER LIMIT	190678	12.518				
LOWER LIMIT	47669.5	11.518				
EPA SAMPLE NO.						
BP-VPB-190A-TB-20241213	71905	12.02				
BP-VPB-190A-GW-678-680	74123	12.02				
BP-VPB-190A-GW-678-680DL	76153	12.02				
BP-VPB-190A-GW-698-700	69187	12.02				
VPB190A-HYD-20241217	74241	12.02				
VX1220WBL01	81005	12.02				
VX1220WBS01	96885	12.02				
VX1220WBSD01	96082	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/13/24
Project:	CTO WE13	Date Received:	12/17/24
Client Sample ID:	BP-VPB-190A-TB-20241213	SDG No.:	P5314
Lab Sample ID:	P5314-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044445.D	1		12/20/24 12:26	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/13/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	BP-VPB-190A-TB-20241213		SDG No.:	P5314	
Lab Sample ID:	P5314-01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044445.D	1		12/20/24 12:26	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.0		81 - 118		86%	SPK: 50
1868-53-7	Dibromofluoromethane	46.2		80 - 119		92%	SPK: 50
2037-26-5	Toluene-d8	50.5		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.1		85 - 114		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	118000	5.55				
540-36-3	1,4-Difluorobenzene	209000	6.757				
3114-55-4	Chlorobenzene-d5	178000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	71900	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/13/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	BP-VPB-190A-TB-20241213		SDG No.:	P5314	
Lab Sample ID:	P5314-01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044445.D	1		12/20/24 12:26	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	-----	------------	-------

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044445.D
Acq On : 20 Dec 2024 12:26
Operator : JC/MD
Sample : P5314-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-TB-20241213

Quant Time: Dec 20 14:08:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	117644	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	208582	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	178072	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	71905	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	88659	42.982	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	85.960%	
35) Dibromofluoromethane	5.385	113	66732	46.193	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	92.380%	
50) Toluene-d8	8.647	98	246144	50.504	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	101.000%	
62) 4-Bromofluorobenzene	11.079	95	80161	47.070	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	94.140%	

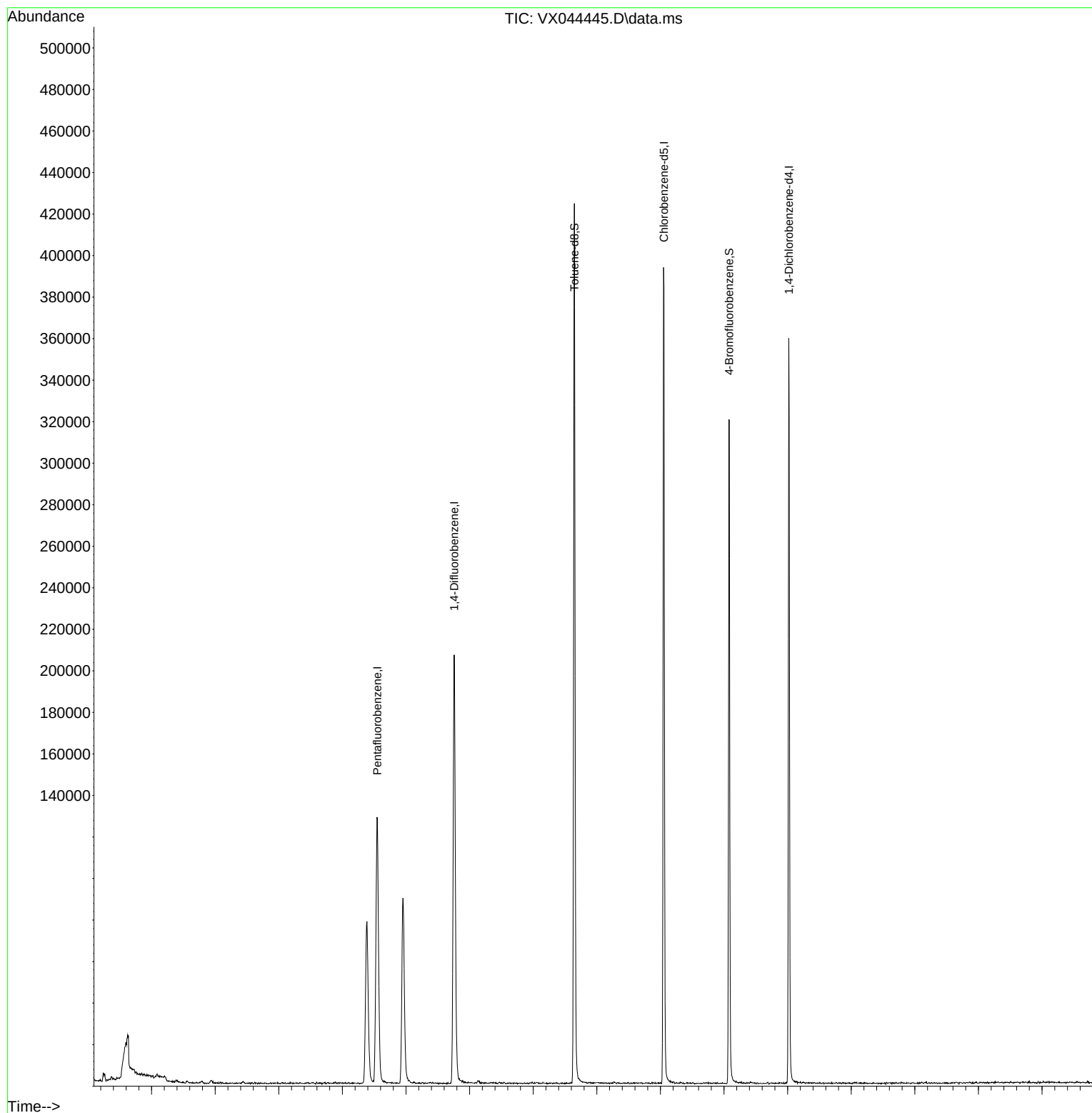
Target Compounds Qvalue

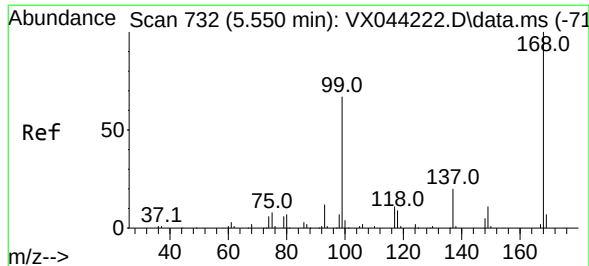
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044445.D
Acq On : 20 Dec 2024 12:26
Operator : JC/MD
Sample : P5314-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-TB-20241213

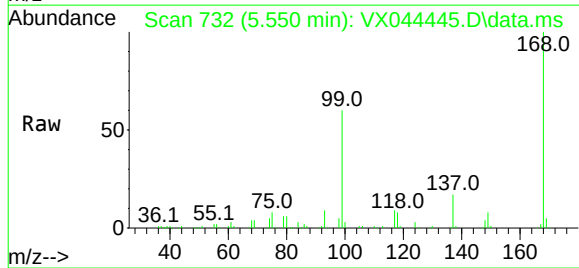
Quant Time: Dec 20 14:08:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



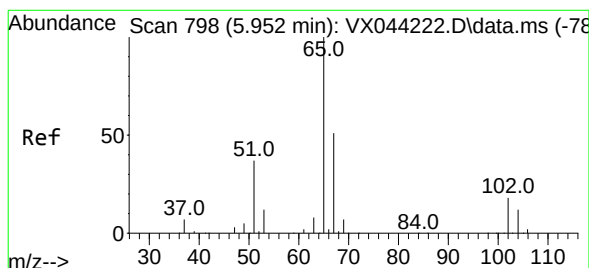
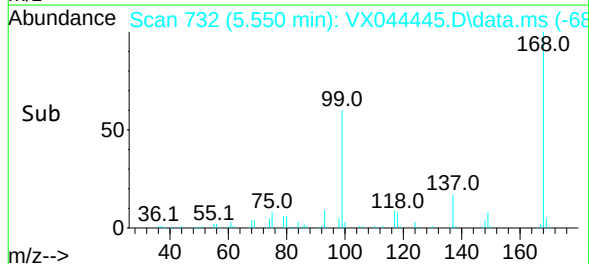
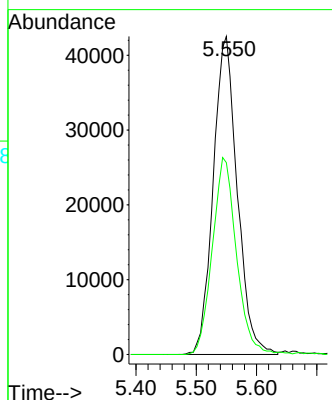


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.000 min
Lab File: VX044445.D
Acq: 20 Dec 2024 12:26

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-TB-20241213

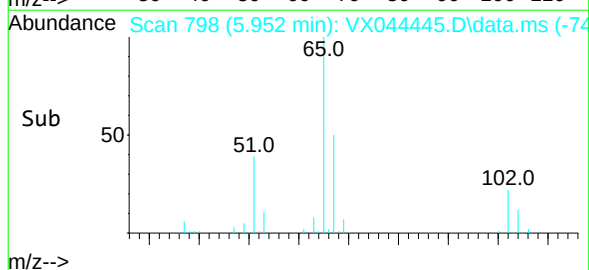
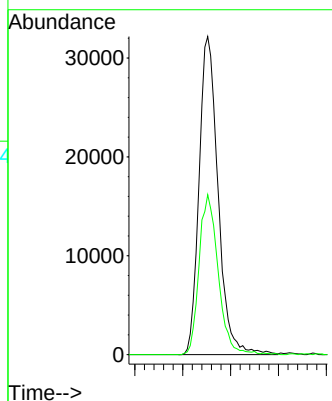
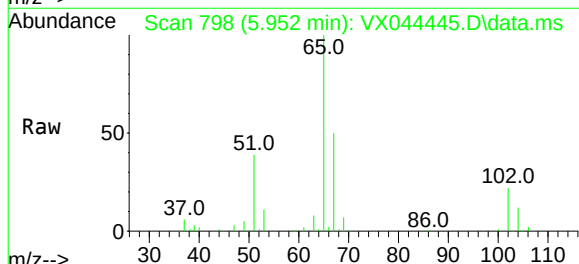


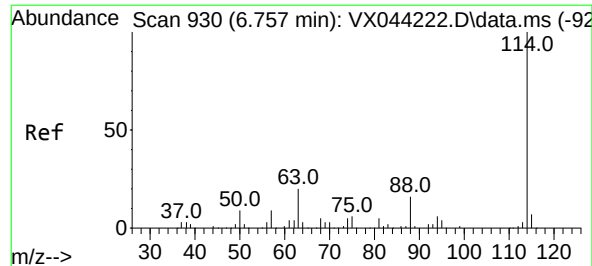
Tgt Ion: 168 Resp: 117644
Ion Ratio Lower Upper
168 100
99 60.3 53.4 80.0



#33
1,2-Dichloroethane-d4
Concen: 42.982 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX044445.D
Acq: 20 Dec 2024 12:26

Tgt Ion: 65 Resp: 88659
Ion Ratio Lower Upper
65 100
67 50.3 0.0 101.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044445.D

Acq: 20 Dec 2024 12:26

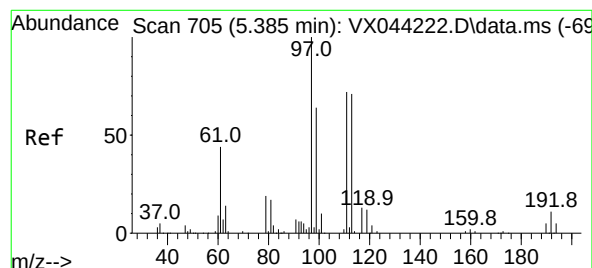
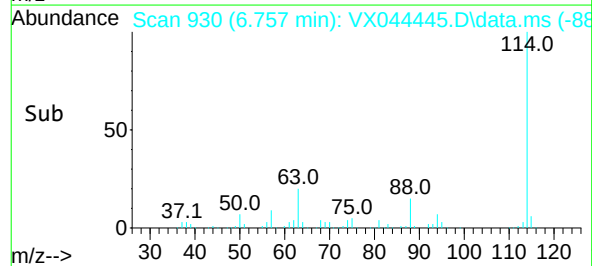
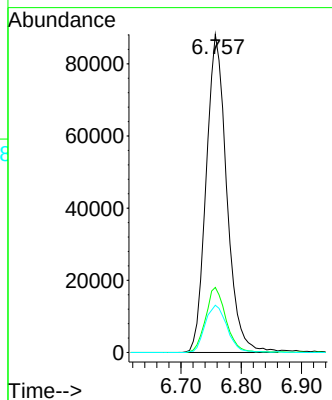
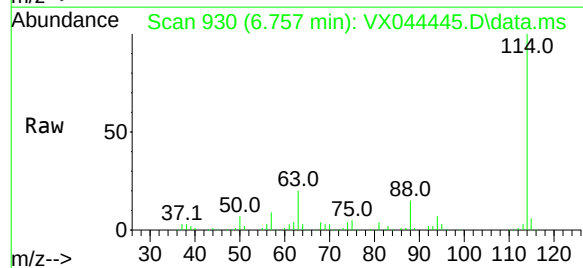
Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-190A-TB-20241213

Tgt Ion:	114	Resp:	208582
Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	40.6
88	14.9	0.0	31.8



#35

Dibromofluoromethane

Concen: 46.193 ug/l

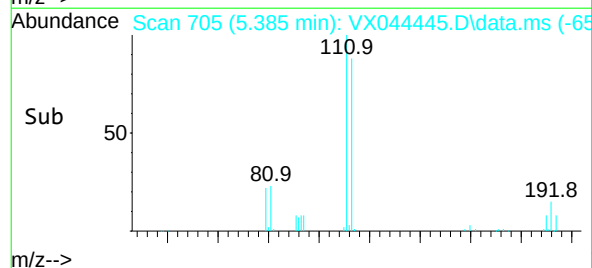
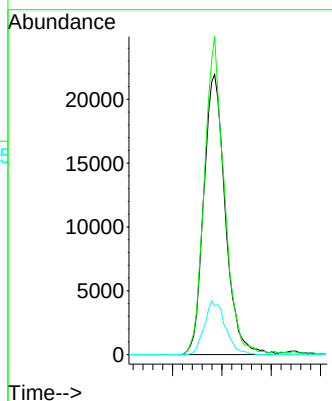
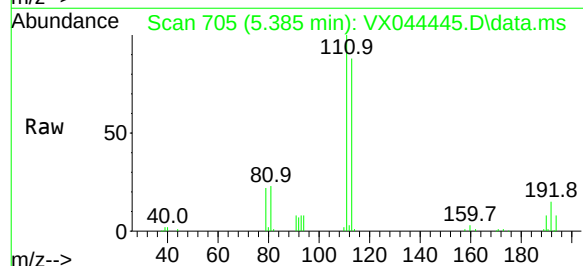
RT: 5.385 min Scan# 705

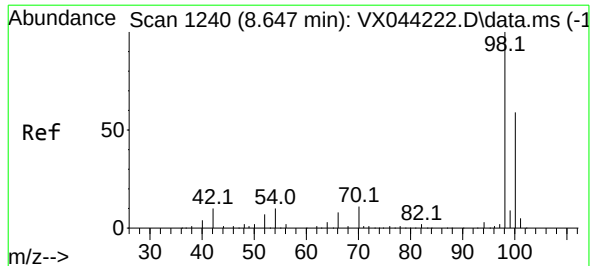
Delta R.T. 0.000 min

Lab File: VX044445.D

Acq: 20 Dec 2024 12:26

Tgt Ion:	113	Resp:	66732
Ion	Ratio	Lower	Upper
113	100		
111	104.9	80.4	120.6
192	18.6	13.3	19.9





#50

Toluene-d8

Concen: 50.504 ug/l

RT: 8.647 min Scan# 12

Delta R.T. 0.000 min

Lab File: VX044445.D

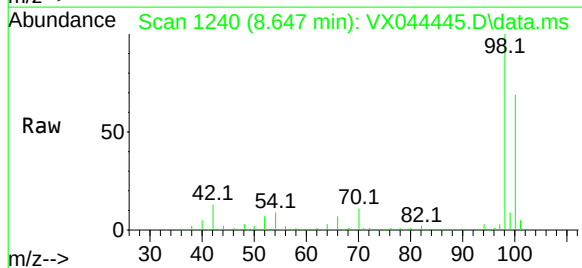
Acq: 20 Dec 2024 12:26

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-190A-TB-20241213

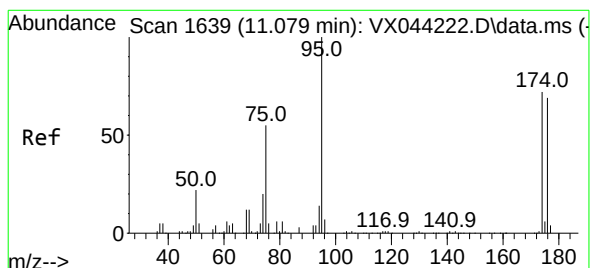
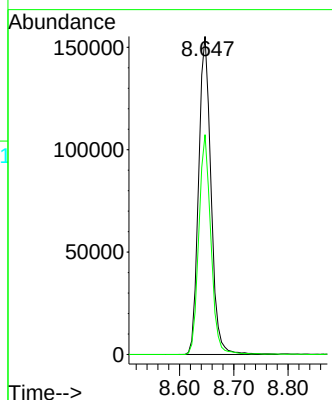
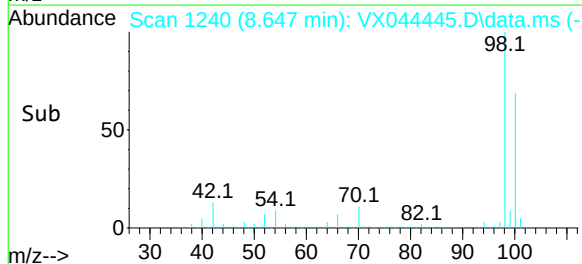


Tgt Ion: 98 Resp: 246144

Ion Ratio Lower Upper

98 100

100 67.4 51.5 77.3



#62

4-Bromofluorobenzene

Concen: 47.070 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX044445.D

Acq: 20 Dec 2024 12:26

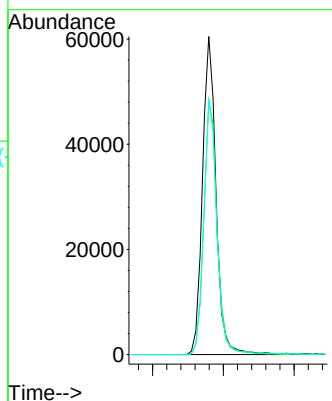
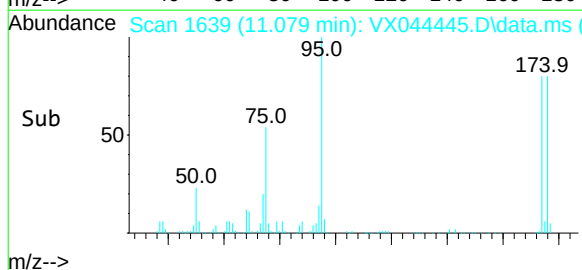
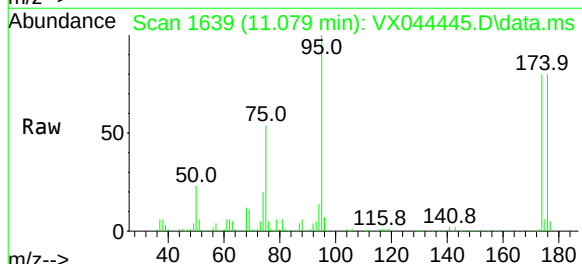
Tgt Ion: 95 Resp: 80161

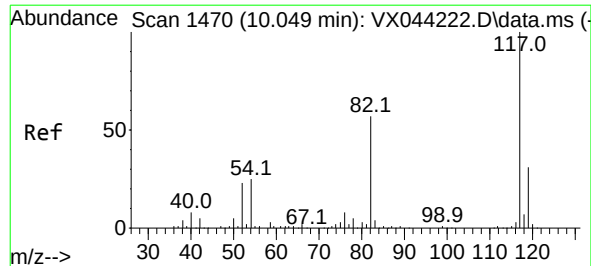
Ion Ratio Lower Upper

95 100

174 79.1 0.0 145.8

176 77.2 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.006 min

Lab File: VX044445.D

Acq: 20 Dec 2024 12:26

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-190A-TB-20241213

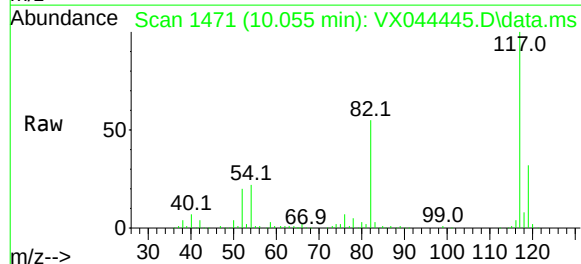
Tgt Ion:117 Resp: 178072

Ion Ratio Lower Upper

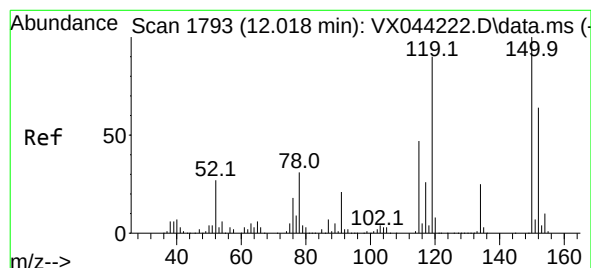
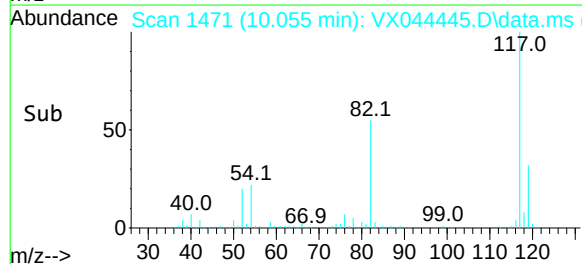
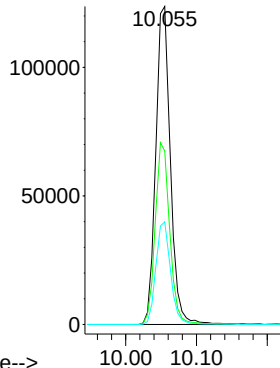
117 100

82 54.6 45.8 68.8

119 32.3 25.0 37.4



Abundance



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX044445.D

Acq: 20 Dec 2024 12:26

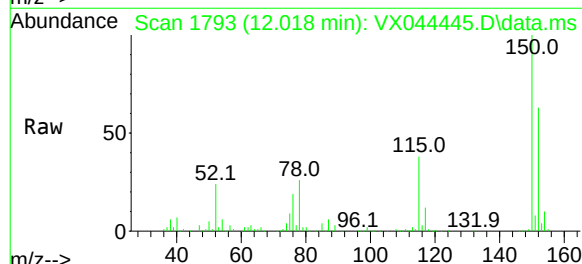
Tgt Ion:152 Resp: 71905

Ion Ratio Lower Upper

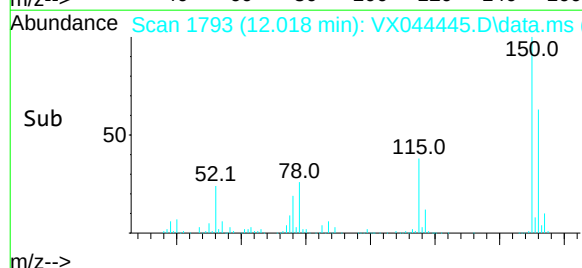
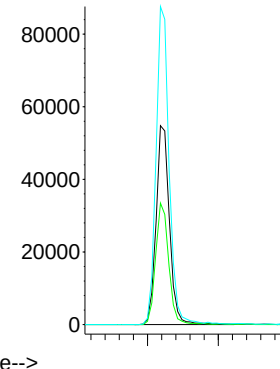
152 100

115 59.7 44.5 133.3

150 155.6 0.0 353.8



Abundance



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044445.D
Acq On : 20 Dec 2024 12:26
Operator : JC/MD
Sample : P5314-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-TB-20241213

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Title : SW846 8260

Signal : TIC: VX044445.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.599	70	84	85	rBV2	16808	56568	8.45%	1.617%
2	5.385	694	705	720	rBV2	77850	231726	34.60%	6.622%
3	5.544	723	731	746	rVB	127438	361764	54.01%	10.338%
4	5.952	789	798	812	rBV2	89168	245802	36.70%	7.024%
5	6.757	921	930	942	rBV	206458	493542	73.69%	14.104%
6	8.647	1233	1240	1250	rBV	423760	669756	100.00%	19.139%
7	10.049	1465	1470	1485	rBV	393098	572158	85.43%	16.350%
8	11.079	1633	1639	1651	rBV	319810	412949	61.66%	11.801%
9	12.018	1788	1793	1807	rBV	358728	455090	67.95%	13.005%

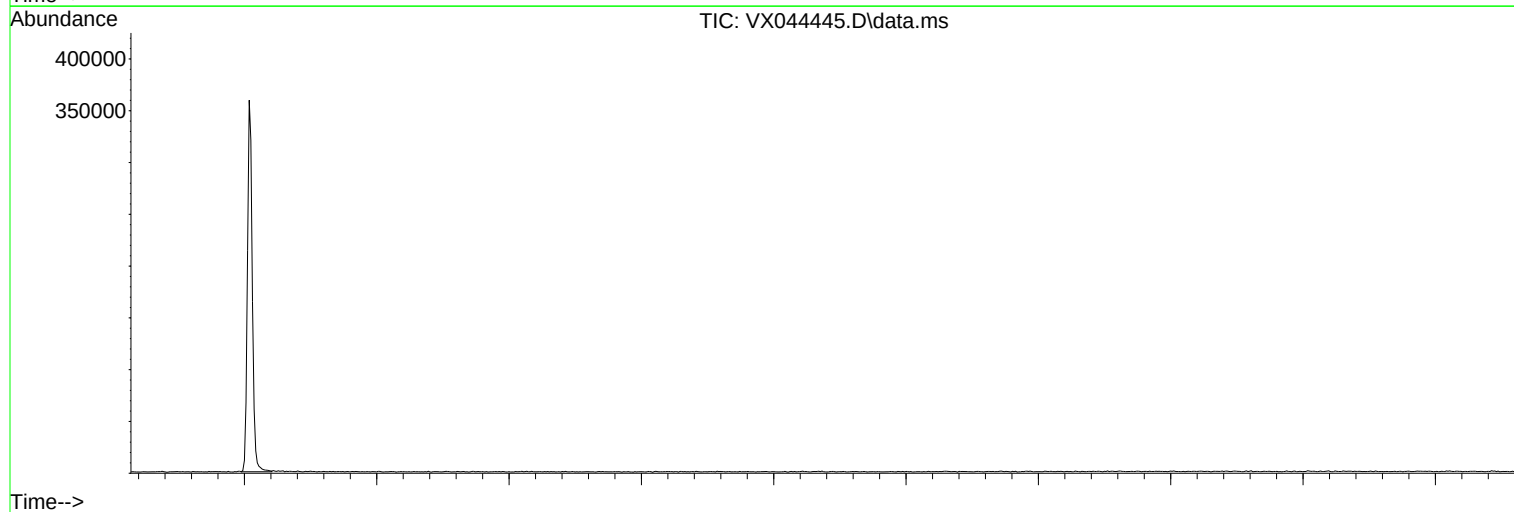
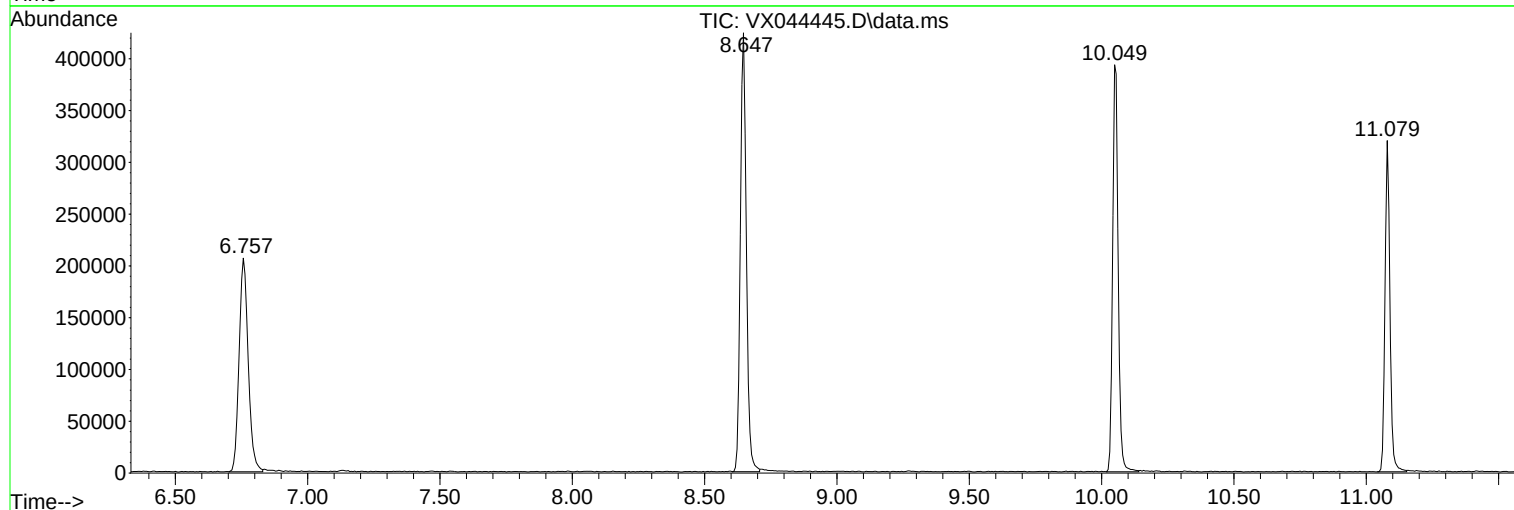
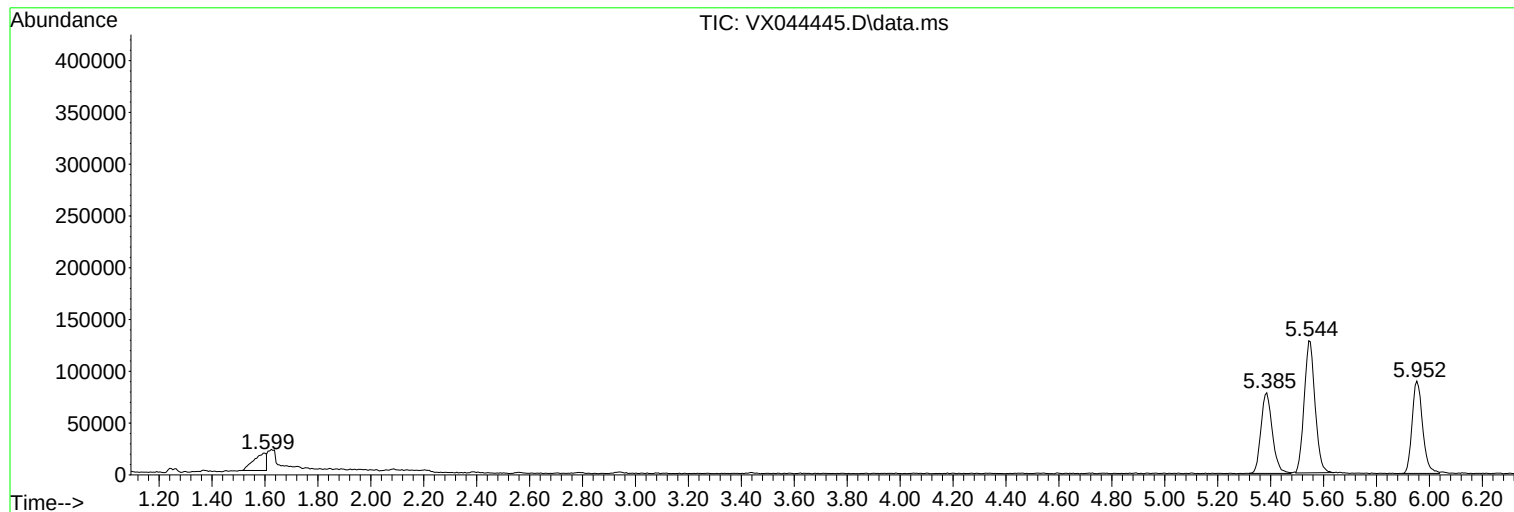
Sum of corrected areas: 3499355

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044445.D
Acq On : 20 Dec 2024 12:26
Operator : JC/MD
Sample : P5314-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-TB-20241213

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044445.D
Acq On : 20 Dec 2024 12:26
Operator : JC/MD
Sample : P5314-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-TB-20241213

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044445.D
Acq On : 20 Dec 2024 12:26
Operator : JC/MD
Sample : P5314-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-TB-20241213

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/13/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	BP-VPB-190A-GW-678-680		SDG No.:	P5314	
Lab Sample ID:	P5314-02		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044447.D	1		12/20/24 13:13	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	5.40		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.40		0.26	0.75	1.00	ug/L
67-64-1	Acetone	5.00		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.40		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.60		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.85	J	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	290	E	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	1.30		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/13/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	BP-VPB-190A-GW-678-680		SDG No.:	P5314	
Lab Sample ID:	P5314-02		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044447.D	1		12/20/24 13:13	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.7		81 - 118		85%	SPK: 50
1868-53-7	Dibromofluoromethane	48.2		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	51.5		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		85 - 114		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	117000	5.55				
540-36-3	1,4-Difluorobenzene	205000	6.757				
3114-55-4	Chlorobenzene-d5	179000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	74100	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/13/24
Project:	CTO WE13	Date Received:	12/17/24
Client Sample ID:	BP-VPB-190A-GW-678-680	SDG No.:	P5314
Lab Sample ID:	P5314-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044447.D	1		12/20/24 13:13	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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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_X\Data\VX122024\
 Data File : VX044447.D
 Acq On : 20 Dec 2024 13:13
 Operator : JC/MD
 Sample : P5314-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-190A-GW-678-680

Quant Time: Dec 20 14:08:44 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:28:14 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 12/20/2024
 Supervised By : Semsettin Yesilyurt 12/23/2024

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	116922	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	205157	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	179312	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	74123	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	87608	42.735	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	85.480%		
35) Dibromofluoromethane	5.379	113	68550	48.244	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.480%		
50) Toluene-d8	8.647	98	246944	51.514	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.020%		
62) 4-Bromofluorobenzene	11.079	95	83804	50.031	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	100.060%		
Target Compounds						
					Qvalue	
9) 1,1,2-Trichlorotrifluo...	2.319	101	7662	5.370	ug/l	96
12) 1,1-Dichloroethene	2.312	96	1852	1.413	ug/l #	77
16) Acetone	2.386	43	4141	4.955	ug/l	91
27) cis-1,2-Dichloroethene	4.501	96	2816m	1.592	ug/l	
30) Chloroform	5.092	83	2628	0.854	ug/l #	79
38) Carbon Tetrachloride	5.684	117	2826	1.429	ug/l #	73
44) Trichloroethene	7.123	130	401769	288.909	ug/l	97
55) 1,1,2-Trichloroethane	9.159	97	1835	1.319	ug/l #	80

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

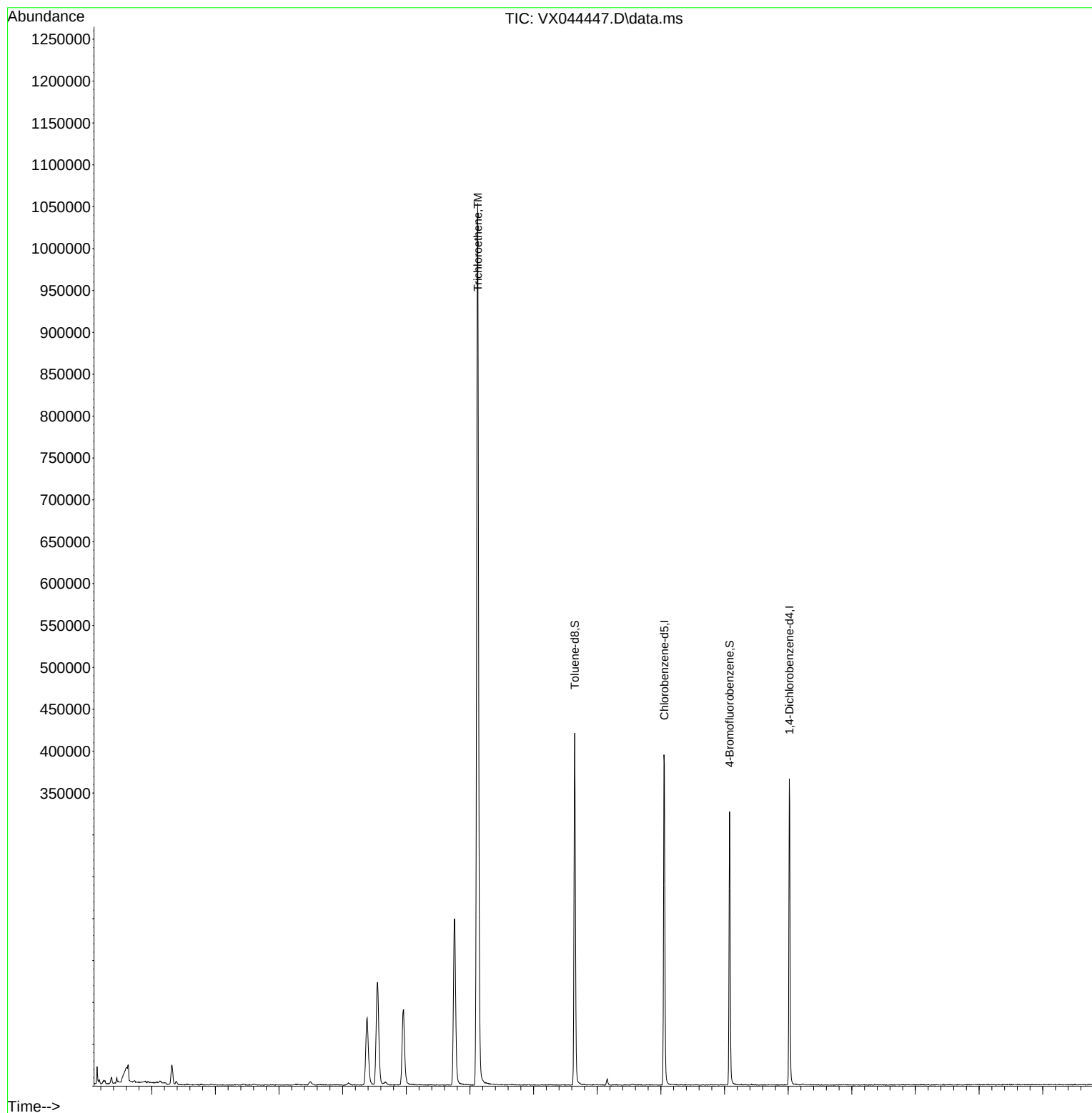
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044447.D
Acq On : 20 Dec 2024 13:13
Operator : JC/MD
Sample : P5314-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

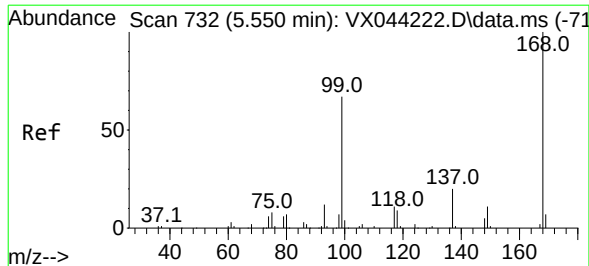
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680

Manual Integrations
APPROVED

Reviewed By : John Carlone 12/20/2024
Supervised By : Semsettin Yesilyurt 12/23/2024

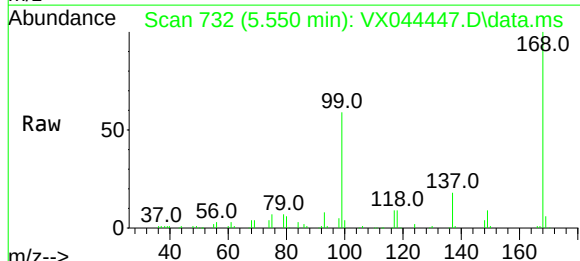
Quant Time: Dec 20 14:08:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.000 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

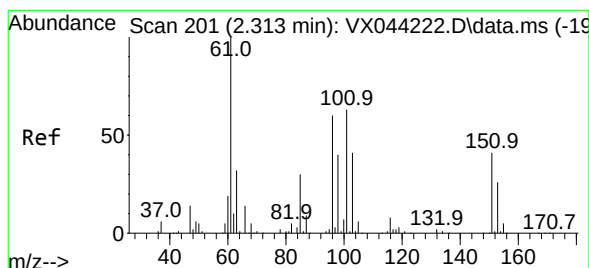
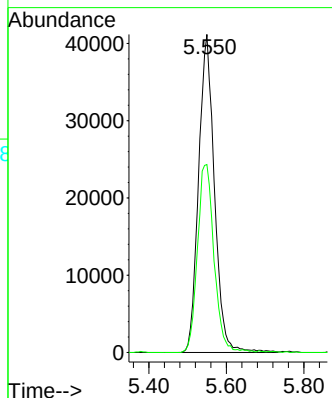
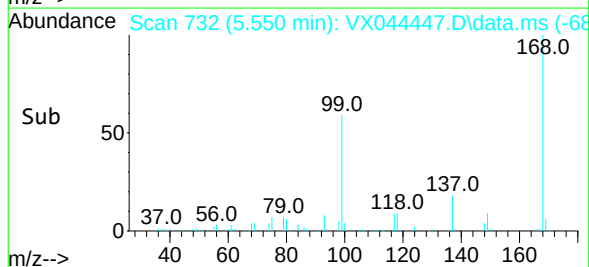
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680



Tgt Ion:168 Resp: 116922
Ion Ratio Lower Upper
168 100
99 59.1 53.4 80.0

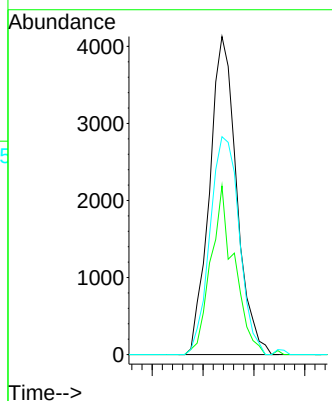
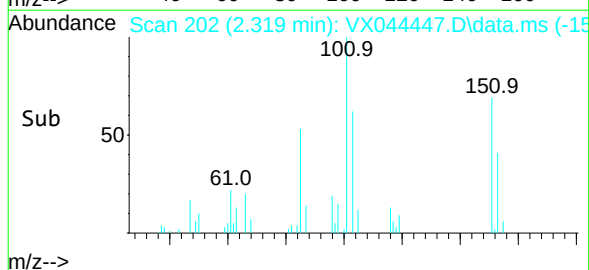
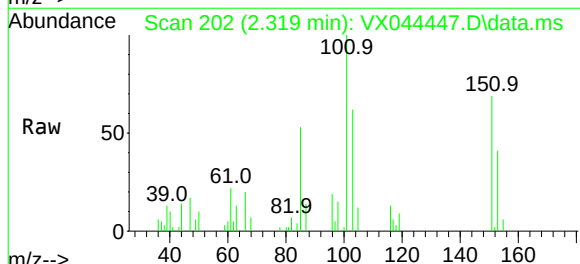
Manual Integrations
APPROVED

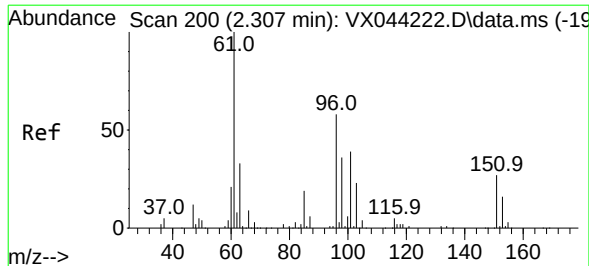
Reviewed By :John Carlone 12/20/2024
Supervised By :Semsettin Yesilyurt 12/23/2024



#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.370 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

Tgt Ion:101 Resp: 7662
Ion Ratio Lower Upper
101 100
85 46.0 38.5 57.7
151 74.0 55.8 83.6





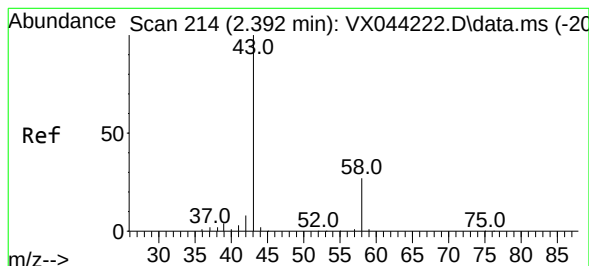
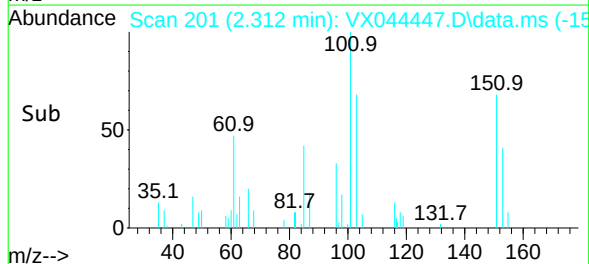
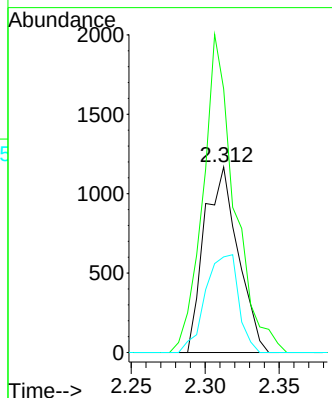
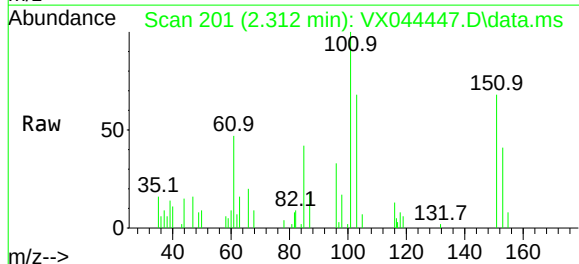
#12
1,1-Dichloroethene
Concen: 1.413 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680

Tgt Ion	Ratio	Lower	Upper
96	100		
61	137.2	138.0	207.0
98	51.5	50.0	75.0

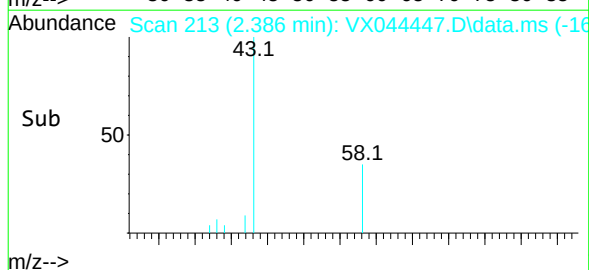
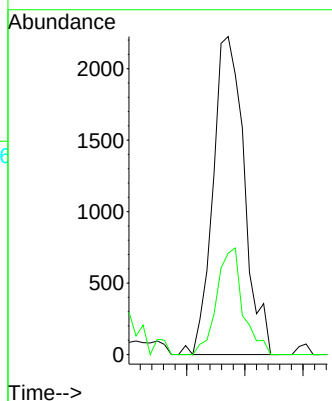
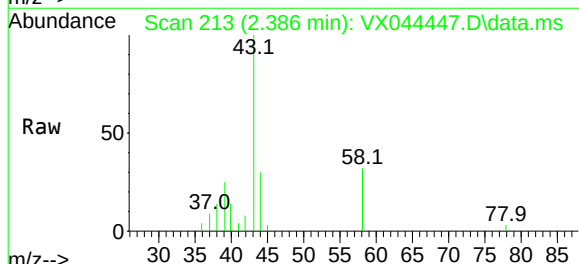
Manual Integrations
APPROVED

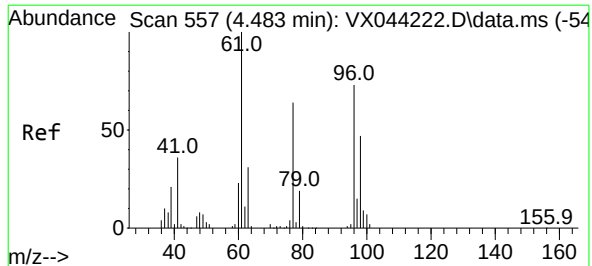
Reviewed By :John Carlone 12/20/2024
Supervised By :Semsettin Yesilyurt 12/23/2024



#16
Acetone
Concen: 4.955 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

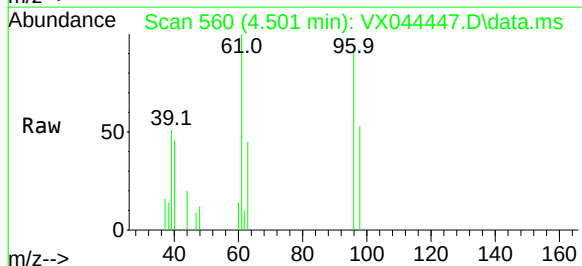
Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.9	21.6	32.4





#27
cis-1,2-Dichloroethene
Concen: 1.592 ug/l m
RT: 4.501 min Scan# 56
Delta R.T. 0.018 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

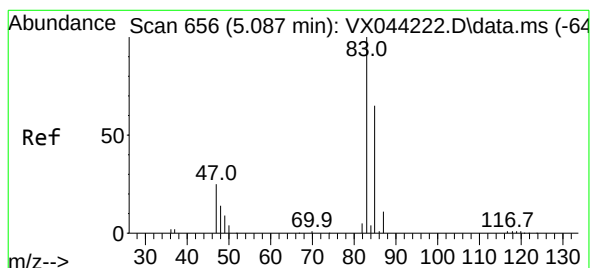
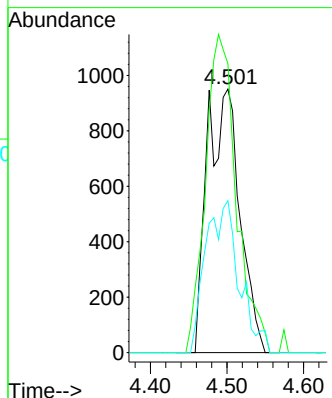
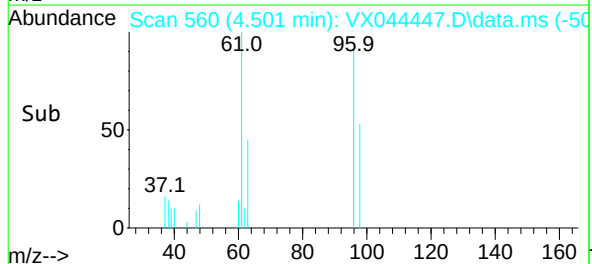
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680



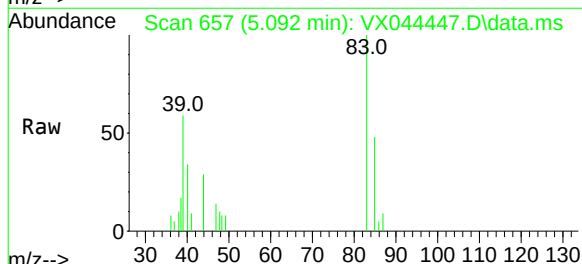
Tgt Ion: 96 Resp: 2816
Ion Ratio Lower Upper
96 100
61 114.3 0.0 299.0
98 59.2 0.0 129.0

Manual Integrations
APPROVED

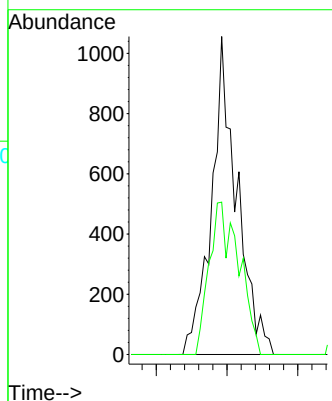
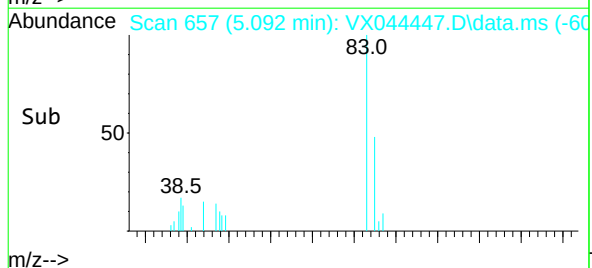
Reviewed By :John Carlone 12/20/2024
Supervised By :Semsettin Yesilyurt 12/23/2024

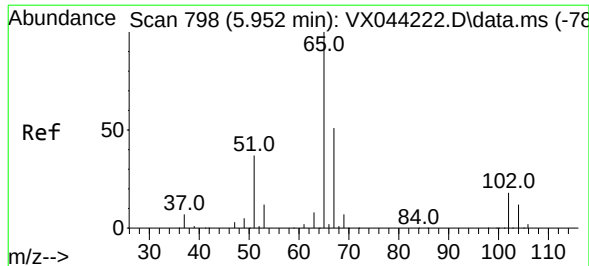


#30
Chloroform
Concen: 0.854 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13



Tgt Ion: 83 Resp: 2628
Ion Ratio Lower Upper
83 100
85 47.9 51.6 77.4#





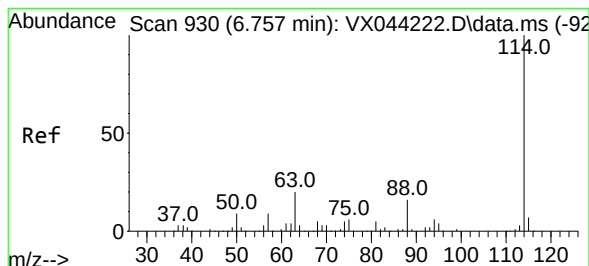
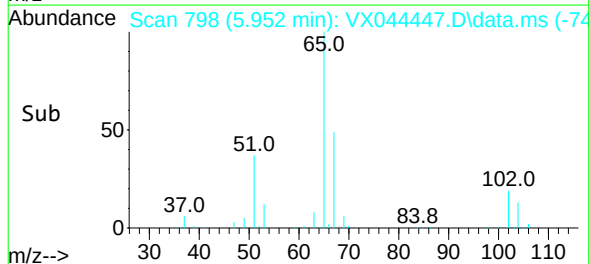
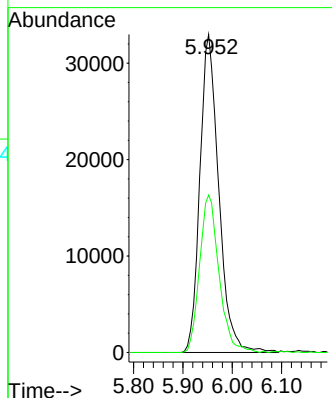
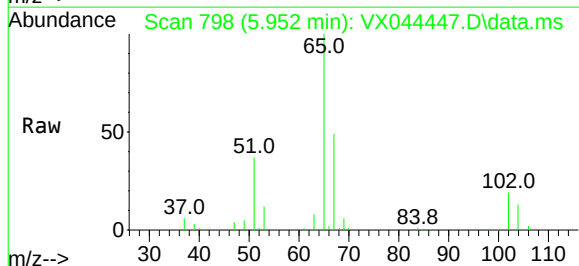
#33
1,2-Dichloroethane-d4
Concen: 42.735 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680

Tgt Ion: 65 Resp: 87608
Ion Ratio Lower Upper
65 100
67 51.0 0.0 101.6

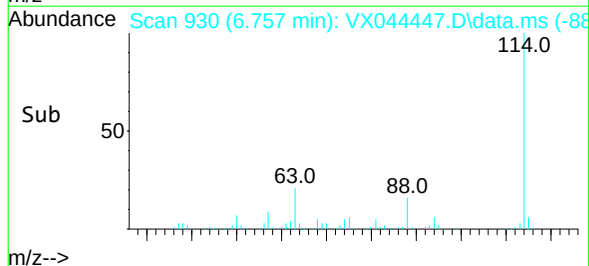
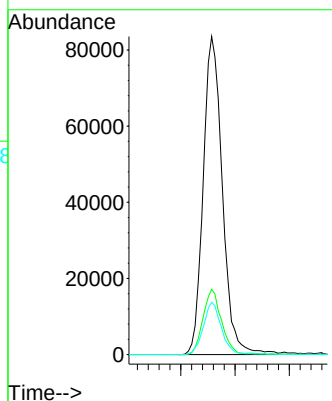
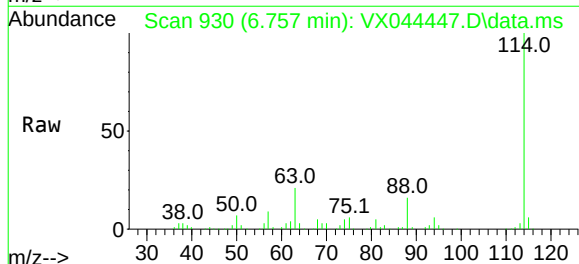
Manual Integrations
APPROVED

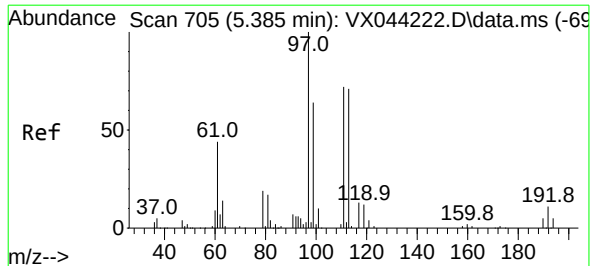
Reviewed By :John Carlone 12/20/2024
Supervised By :Semsettin Yesilyurt 12/23/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

Tgt Ion:114 Resp: 205157
Ion Ratio Lower Upper
114 100
63 20.6 0.0 40.6
88 16.5 0.0 31.8





#35

Dibromofluoromethane

Concen: 48.244 ug/l

RT: 5.379 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX044447.D

Acq: 20 Dec 2024 13:13

Instrument :

MSVOA_X

ClientSampleId :

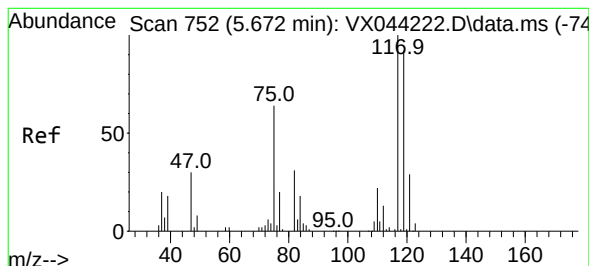
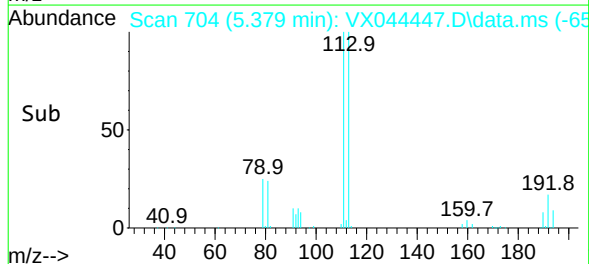
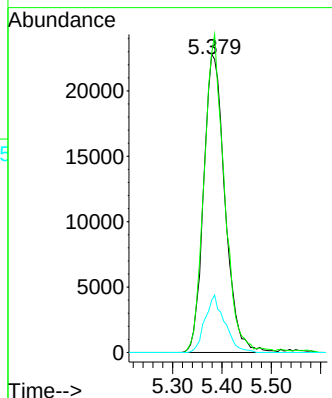
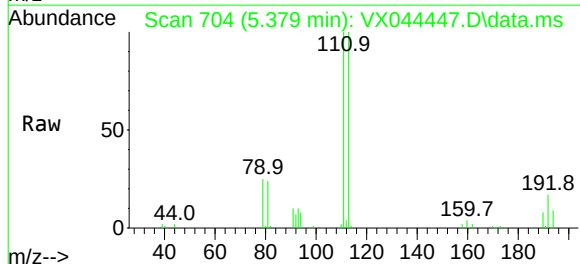
BP-VPB-190A-GW-678-680

Tgt Ion:	113	Resp:	68550
Ion Ratio	Lower	Upper	
113	100		
111	101.0	80.4	120.6
192	17.7	13.3	19.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024

Supervised By :Semsettin Yesilyurt 12/23/2024



#38

Carbon Tetrachloride

Concen: 1.429 ug/l

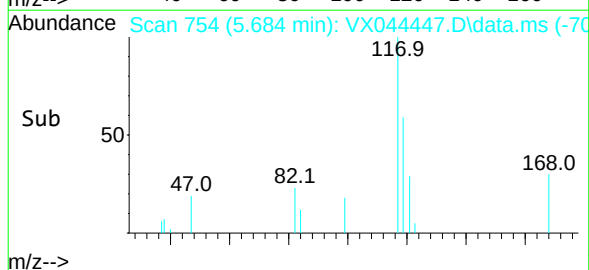
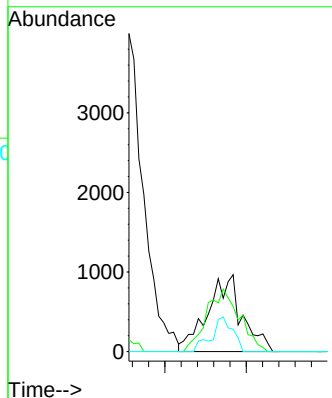
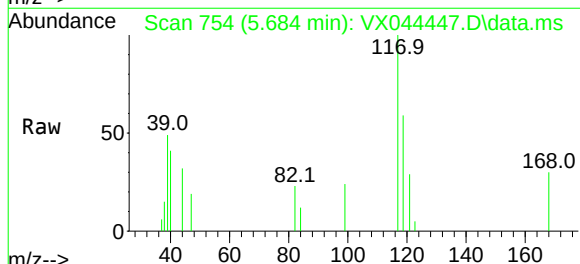
RT: 5.684 min Scan# 754

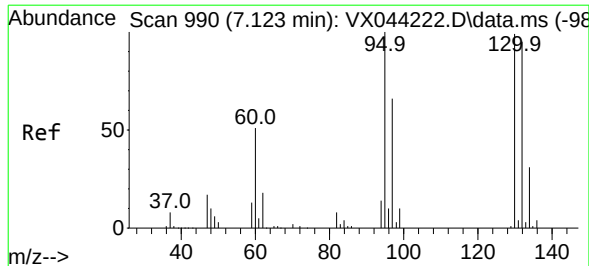
Delta R.T. 0.012 min

Lab File: VX044447.D

Acq: 20 Dec 2024 13:13

Tgt Ion:	117	Resp:	2826
Ion Ratio	Lower	Upper	
117	100		
119	58.8	74.2	111.4#
121	29.0	23.0	34.6





#44

Trichloroethene

Concen: 288.909 ug/l

RT: 7.123 min Scan# 99

Delta R.T. -0.000 min

Lab File: VX044447.D

Acq: 20 Dec 2024 13:13

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-190A-GW-678-680

Tgt Ion:130 Resp: 401769

Ion Ratio Lower Upper

130 100

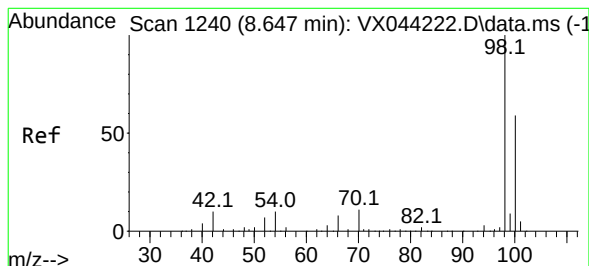
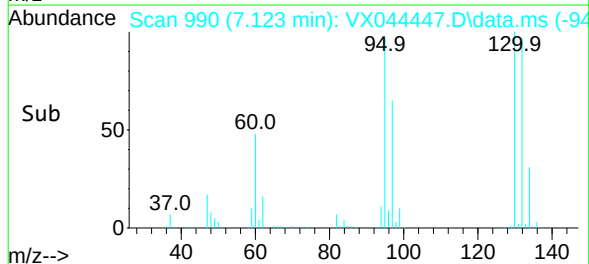
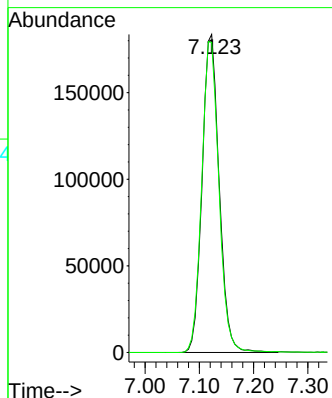
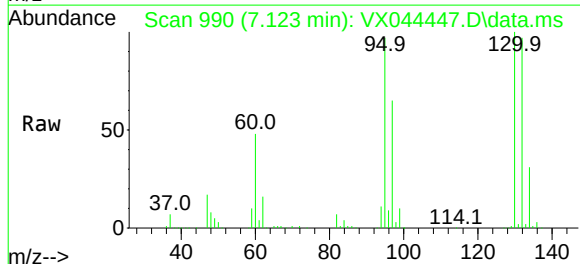
95 97.5 0.0 201.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/20/2024

Supervised By :Semsettin Yesilyurt 12/23/2024



#50

Toluene-d8

Concen: 51.514 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX044447.D

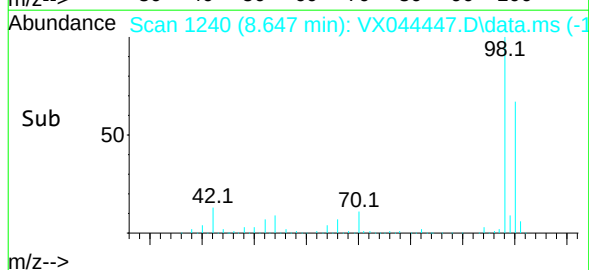
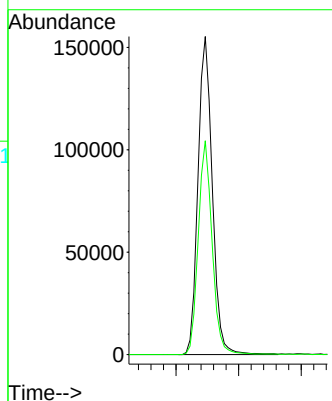
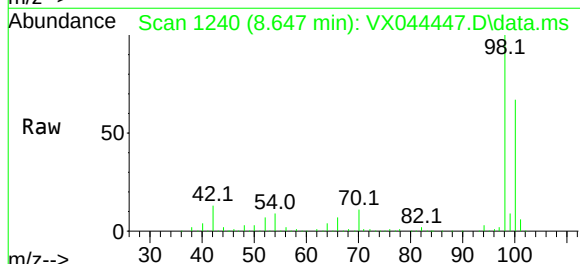
Acq: 20 Dec 2024 13:13

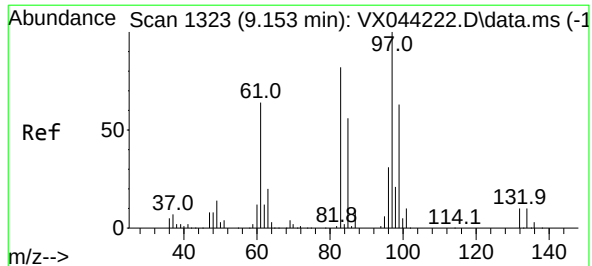
Tgt Ion: 98 Resp: 246944

Ion Ratio Lower Upper

98 100

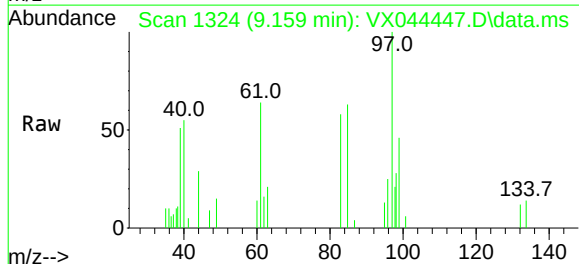
100 65.3 51.5 77.3





#55
1,1,2-Trichloroethane
Concen: 1.319 ug/l
RT: 9.159 min Scan# 1323
Delta R.T. 0.006 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

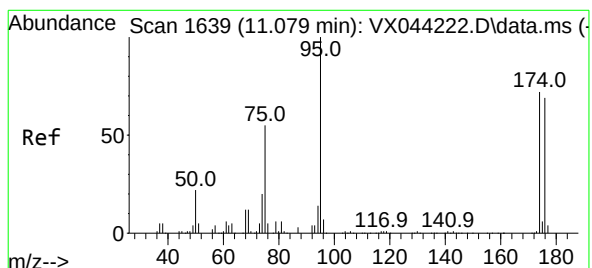
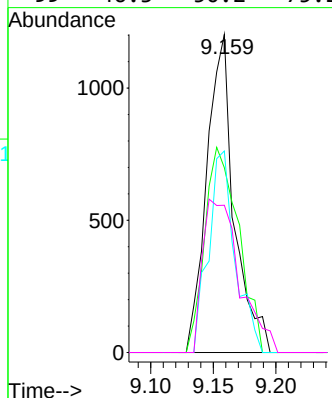
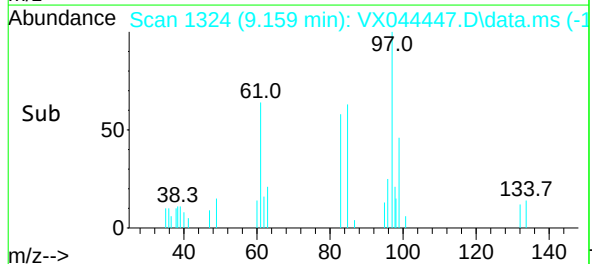
Instrument : MSVOA_X
ClientSampleId : BP-VPB-190A-GW-678-680



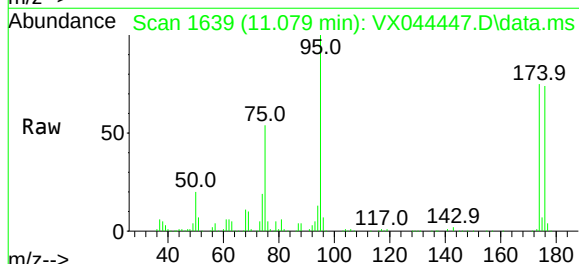
Tgt Ion:	97	Resp:	1835
Ion	Ratio	Lower	Upper
97	100		
83	58.1	65.3	97.9#
85	63.3	44.6	67.0#
99	46.3	50.2	75.2#

Manual Integrations
APPROVED

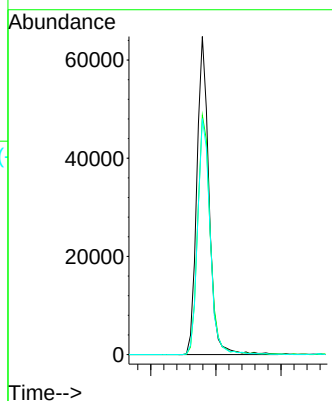
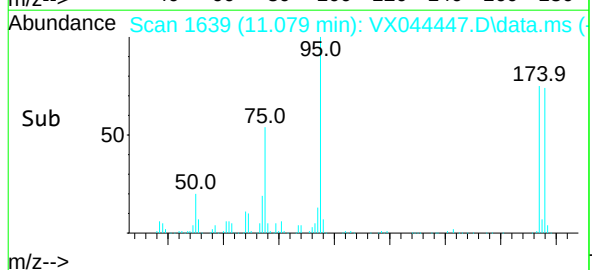
Reviewed By :John Carlone 12/20/2024
Supervised By :Semsettin Yesilyurt 12/23/2024

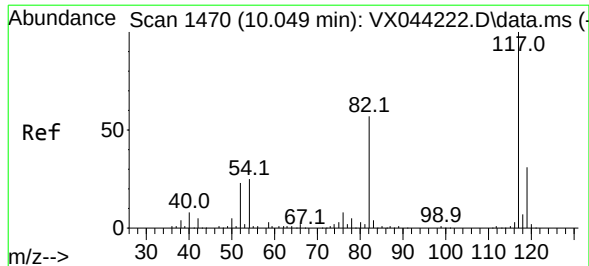


#62
4-Bromofluorobenzene
Concen: 50.031 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13



Tgt Ion:	95	Resp:	83804
Ion	Ratio	Lower	Upper
95	100		
174	77.8	0.0	145.8
176	76.2	0.0	137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.006 min

Lab File: VX044447.D

Acq: 20 Dec 2024 13:13

Instrument :

MSVOA_X

ClientSampleId :

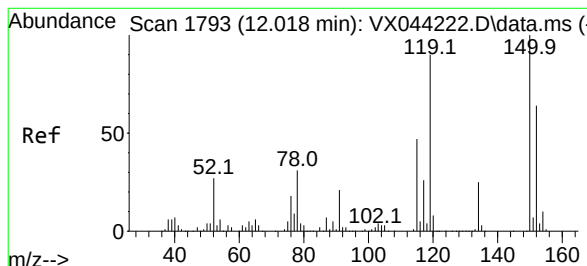
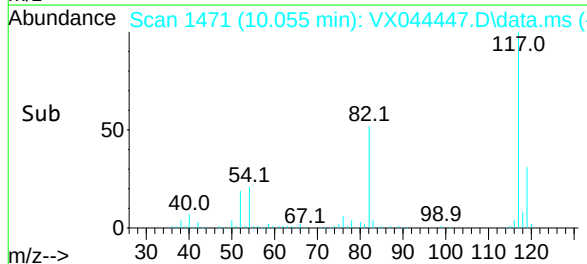
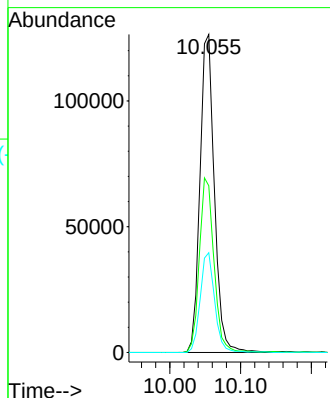
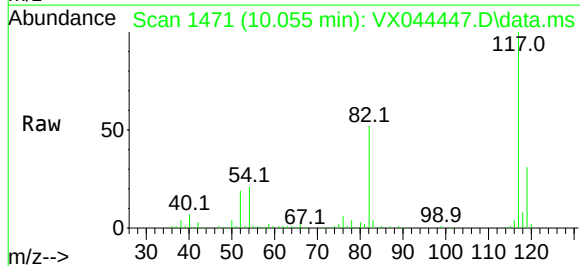
BP-VPB-190A-GW-678-680

Tgt Ion:	117	Resp:	179312
Ion	Ratio	Lower	Upper
117	100		
82	52.4	45.8	68.8
119	31.4	25.0	37.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024

Supervised By :Semsettin Yesilyurt 12/23/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

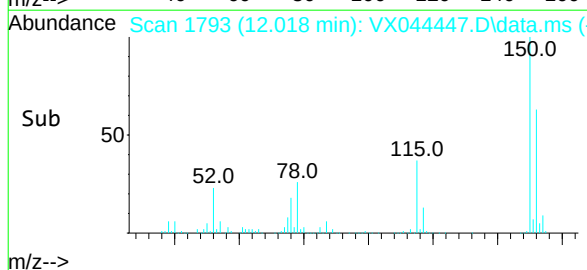
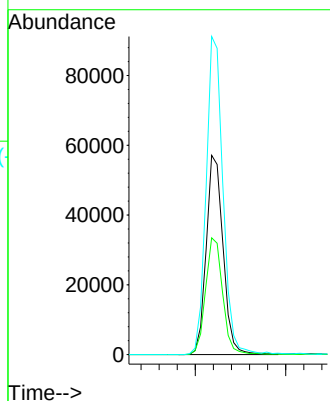
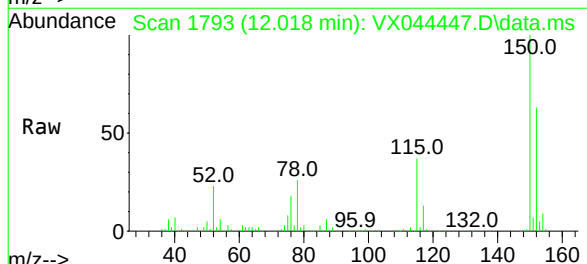
RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX044447.D

Acq: 20 Dec 2024 13:13

Tgt Ion:	152	Resp:	74123
Ion	Ratio	Lower	Upper
152	100		
115	59.6	44.5	133.3
150	159.8	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044447.D
Acq On : 20 Dec 2024 13:13
Operator : JC/MD
Sample : P5314-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Title : SW846 8260

Signal : TIC: VX044447.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.611	70	86	87	rBV4	17402	66188	2.86%	1.121%
2	1.630	87	89	97	rVB2	19972	24376	1.05%	0.413%
3	2.319	194	202	209	rBV3	23052	45996	1.99%	0.779%
4	5.385	693	705	718	rBV	79982	233747	10.11%	3.959%
5	5.550	722	732	744	rBV	122017	354894	15.35%	6.011%
6	5.958	789	799	814	rBV	89626	245676	10.62%	4.161%
7	6.757	922	930	943	rBV	198508	484635	20.96%	8.208%
8	7.123	980	990	1009	rBV	1052804	2312487	100.00%	39.165%
9	8.647	1234	1240	1259	rBV	420024	669034	28.93%	11.331%
10	10.049	1465	1470	1483	rBV	394332	569808	24.64%	9.651%
11	11.079	1634	1639	1649	rBV	326607	425382	18.40%	7.204%
12	12.018	1788	1793	1804	rBV	365444	472180	20.42%	7.997%

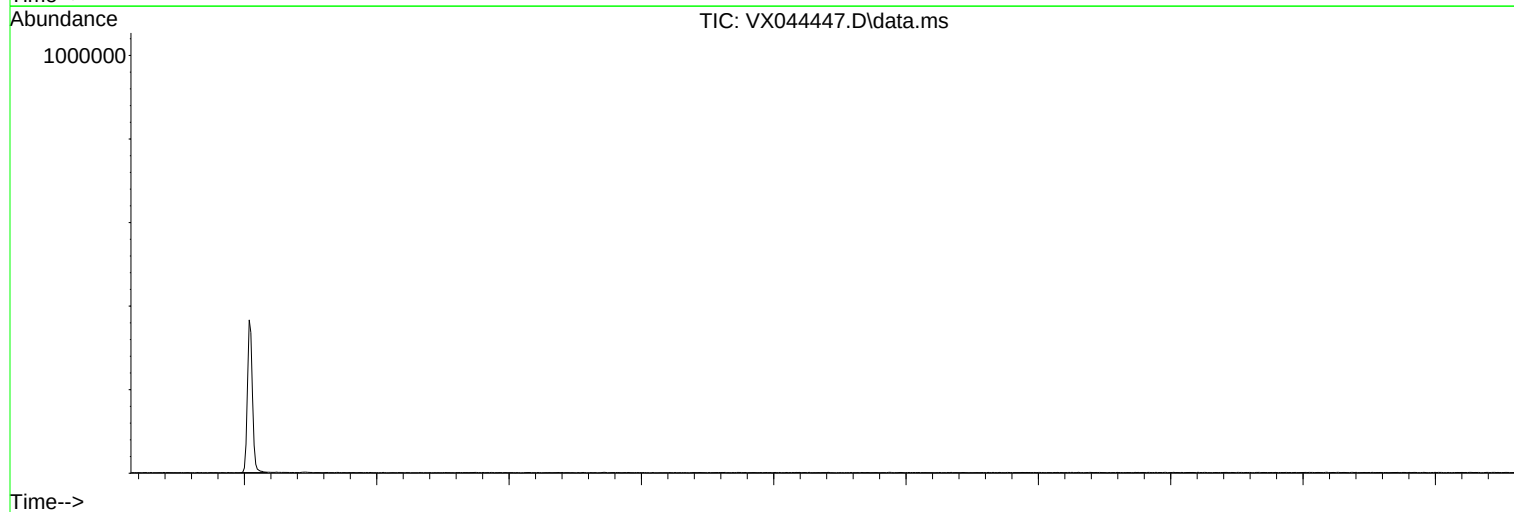
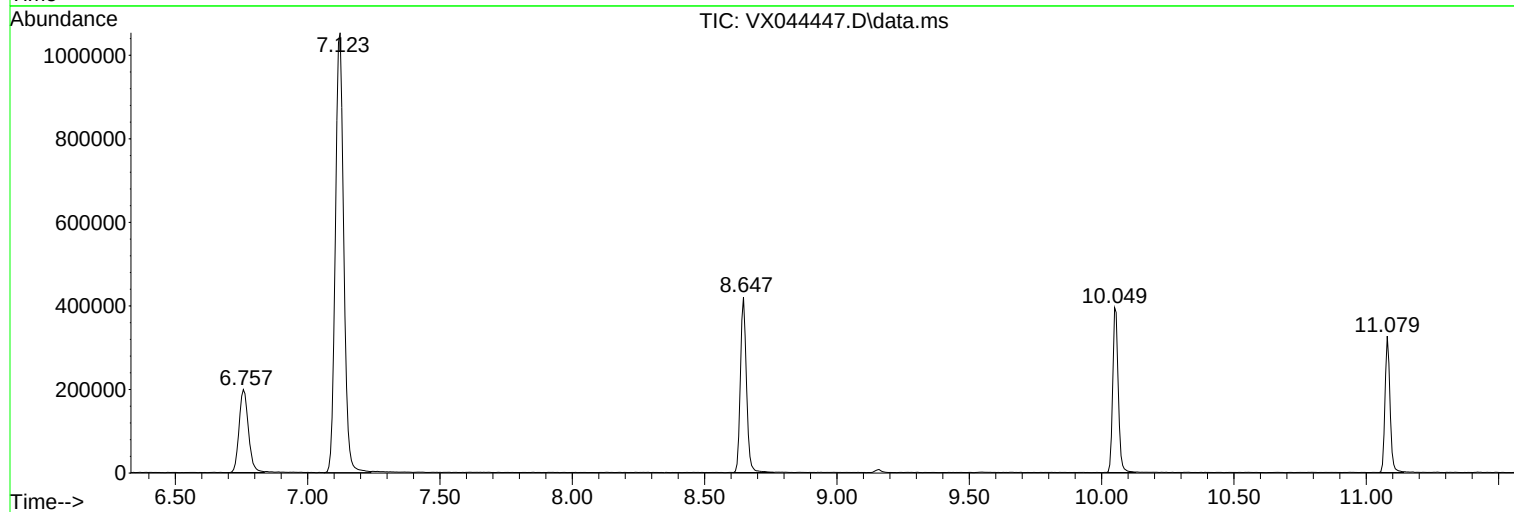
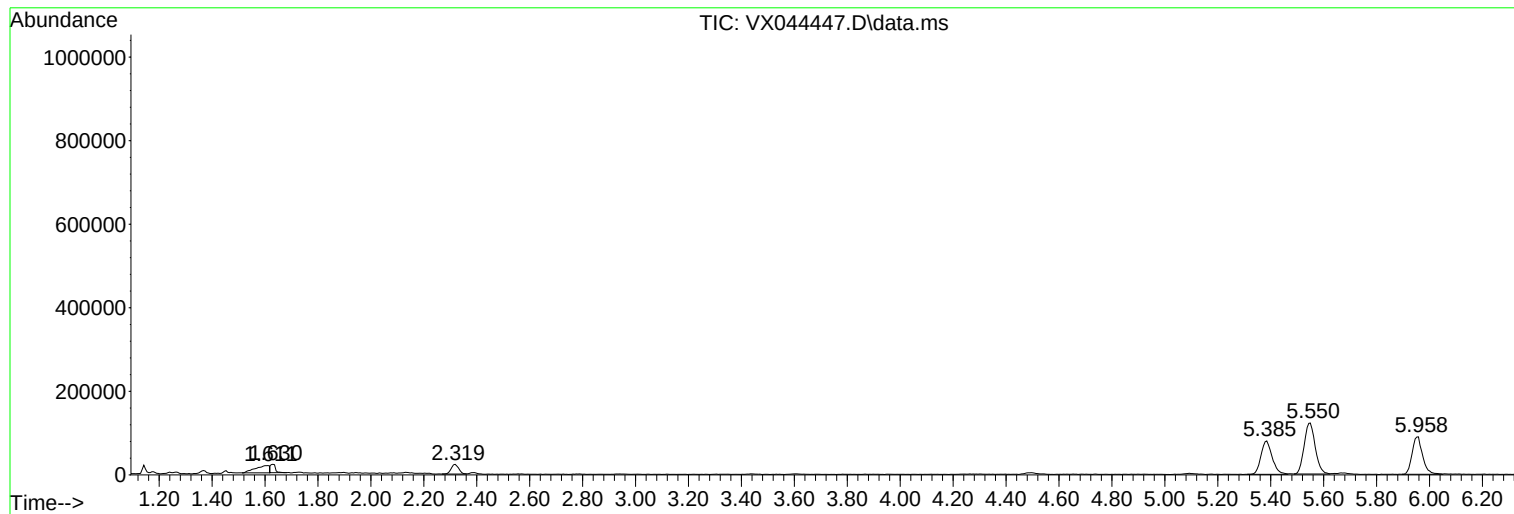
Sum of corrected areas: 5904403

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044447.D
Acq On : 20 Dec 2024 13:13
Operator : JC/MD
Sample : P5314-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044447.D
Acq On : 20 Dec 2024 13:13
Operator : JC/MD
Sample : P5314-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044447.D
Acq On : 20 Dec 2024 13:13
Operator : JC/MD
Sample : P5314-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/13/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	BP-VPB-190A-GW-678-680DL		SDG No.:	P5314	
Lab Sample ID:	P5314-02DL		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044449.D	5		12/20/24 13:59	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	2.50	UD	1.80	2.50	5.00	ug/L
75-01-4	Vinyl Chloride	3.80	UD	1.70	3.80	5.00	ug/L
74-83-9	Bromomethane	18.8	UD	6.80	18.8	25.0	ug/L
75-00-3	Chloroethane	3.80	UD	2.80	3.80	5.00	ug/L
75-69-4	Trichlorofluoromethane	2.50	UD	1.70	2.50	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	5.70	D	1.30	2.50	5.00	ug/L
75-35-4	1,1-Dichloroethene	1.90	JD	1.30	3.80	5.00	ug/L
67-64-1	Acetone	8.10	JD	7.00	18.8	25.0	ug/L
75-15-0	Carbon Disulfide	3.80	UD	1.60	3.80	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	2.50	UD	0.80	2.50	5.00	ug/L
75-09-2	Methylene Chloride	2.50	UD	1.60	2.50	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	2.50	UD	1.30	2.50	5.00	ug/L
75-34-3	1,1-Dichloroethane	2.50	UD	1.20	2.50	5.00	ug/L
78-93-3	2-Butanone	12.5	UD	6.50	12.5	25.0	ug/L
56-23-5	Carbon Tetrachloride	2.50	UD	1.30	2.50	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.90	JD	1.30	3.80	5.00	ug/L
67-66-3	Chloroform	2.50	UD	1.30	2.50	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	2.50	UD	0.95	2.50	5.00	ug/L
108-87-2	Methylcyclohexane	2.50	UD	0.95	2.50	5.00	ug/L
71-43-2	Benzene	2.50	UD	0.80	2.50	5.00	ug/L
107-06-2	1,2-Dichloroethane	2.50	UD	1.20	2.50	5.00	ug/L
79-01-6	Trichloroethene	300	D	1.60	3.80	5.00	ug/L
78-87-5	1,2-Dichloropropane	2.50	UD	0.95	2.50	5.00	ug/L
75-27-4	Bromodichloromethane	2.50	UD	1.20	2.50	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	12.5	UD	3.80	12.5	25.0	ug/L
108-88-3	Toluene	2.50	UD	0.90	2.50	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	2.50	UD	1.10	2.50	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	2.50	UD	0.90	2.50	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	1.80	JD	1.10	2.50	5.00	ug/L
591-78-6	2-Hexanone	12.5	UD	5.70	12.5	25.0	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/13/24
Project:	CTO WE13	Date Received:	12/17/24
Client Sample ID:	BP-VPB-190A-GW-678-680DL	SDG No.:	P5314
Lab Sample ID:	P5314-02DL	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044449.D	5		12/20/24 13:59	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	2.50	UD	0.90	2.50	5.00	ug/L
127-18-4	Tetrachloroethene	2.50	UD	1.30	2.50	5.00	ug/L
108-90-7	Chlorobenzene	2.50	UD	0.65	2.50	5.00	ug/L
100-41-4	Ethyl Benzene	2.50	UD	0.80	2.50	5.00	ug/L
179601-23-1	m/p-Xylenes	5.00	UD	1.60	5.00	10.0	ug/L
95-47-6	o-Xylene	2.50	UD	0.70	2.50	5.00	ug/L
100-42-5	Styrene	2.50	UD	0.80	2.50	5.00	ug/L
75-25-2	Bromoform	2.50	UD	1.10	2.50	5.00	ug/L
98-82-8	Isopropylbenzene	2.50	UD	0.65	2.50	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	2.50	UD	1.40	2.50	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	2.50	UD	1.20	2.50	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	2.50	UD	1.40	2.50	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	2.50	UD	0.95	2.50	5.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.2		81 - 118		86%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	50.9		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		85 - 114		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	114000	5.544				
540-36-3	1,4-Difluorobenzene	203000	6.757				
3114-55-4	Chlorobenzene-d5	178000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	76200	12.018				

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_X\Data\VX122024\
 Data File : VX044449.D
 Acq On : 20 Dec 2024 13:59
 Operator : JC/MD
 Sample : P5314-02DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-190A-GW-678-680DL

Quant Time: Dec 20 14:30:13 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:28:14 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 12/20/2024
 Supervised By : Semsettin Yesilyurt 12/23/2024

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	113918	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	202874	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	177737	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	76153	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	86311	43.213	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	86.420%		
35) Dibromofluoromethane	5.385	113	67094	47.751	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.500%		
50) Toluene-d8	8.647	98	241190	50.880	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.760%		
62) 4-Bromofluorobenzene	11.079	95	77867	47.010	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	94.020%		
Target Compounds						
					Qvalue	
9) 1,1,2-Trichlorotrifluo...	2.325	101	1586	1.141	ug/l	94
12) 1,1-Dichloroethene	2.300	96	476	0.373	ug/l #	60
16) Acetone	2.386	43	1314	1.614	ug/l #	85
27) cis-1,2-Dichloroethene	4.507	96	648m	0.376	ug/l	
44) Trichloroethene	7.123	130	83240	60.531	ug/l	97
55) 1,1,2-Trichloroethane	9.165	97	483	0.351	ug/l #	63

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

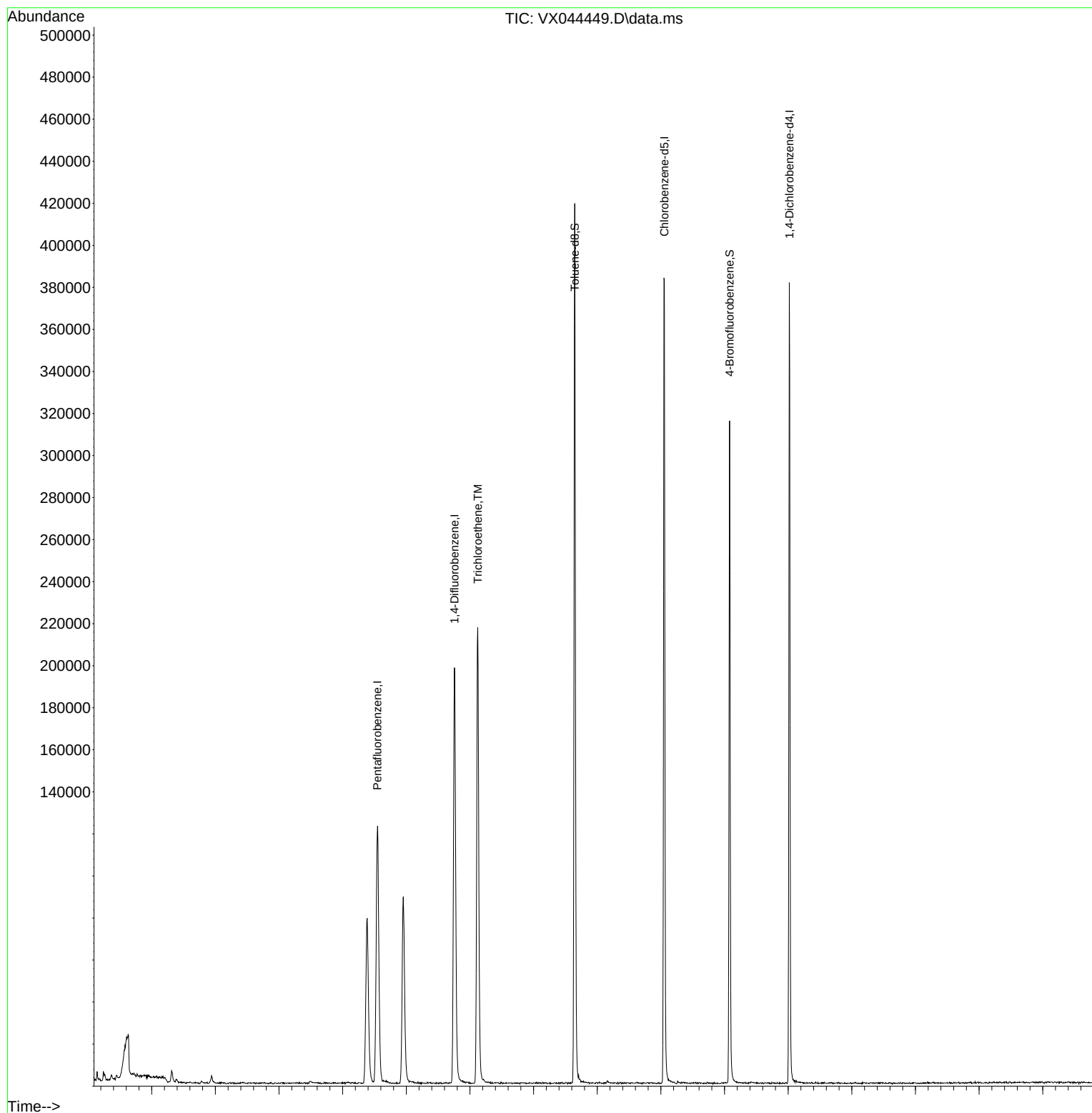
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Data File : VX044449.D
Acq On : 20 Dec 2024 13:59
Operator : JC/MD
Sample : P5314-02DL 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

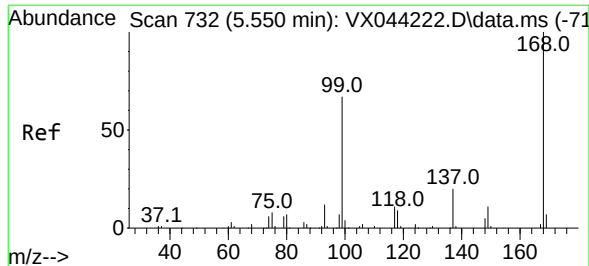
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680DL

Quant Time: Dec 20 14:30:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

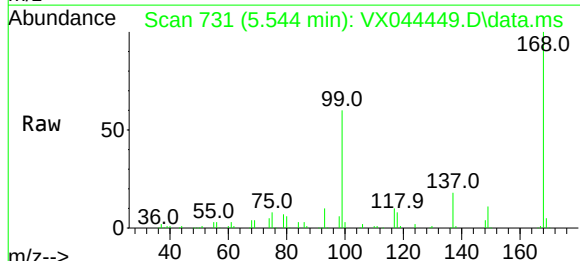
Reviewed By : John Carlone 12/20/2024
Supervised By : Semsettin Yesilyurt 12/23/2024





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

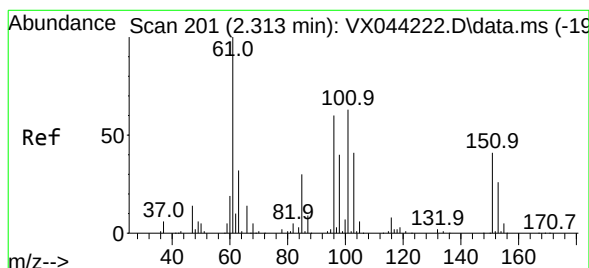
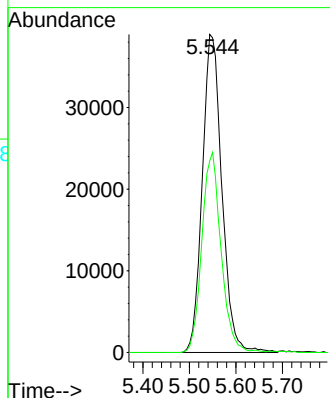
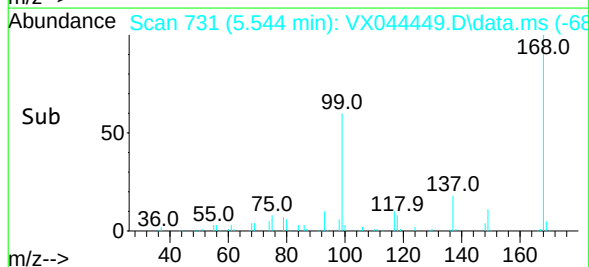
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680DL



Tgt Ion:168 Resp: 113918
Ion Ratio Lower Upper
168 100
99 60.2 53.4 80.0

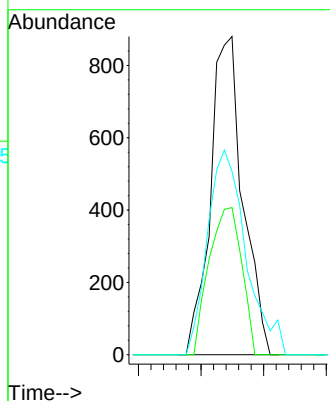
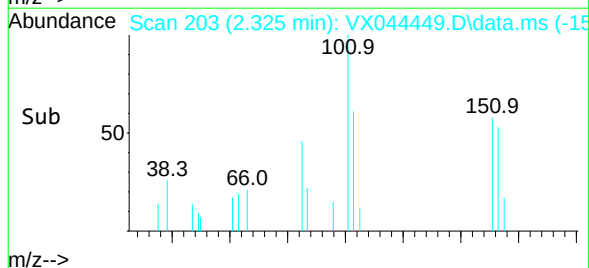
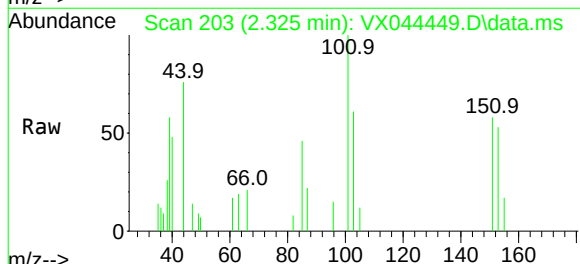
Manual Integrations
APPROVED

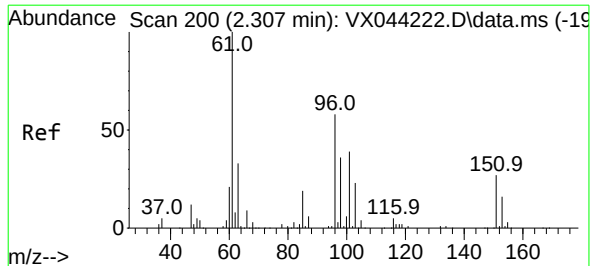
Reviewed By :John Carlone 12/20/2024
Supervised By :Semsettin Yesilyurt 12/23/2024



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.141 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.012 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

Tgt Ion:101 Resp: 1586
Ion Ratio Lower Upper
101 100
85 46.4 38.5 57.7
151 76.3 55.8 83.6





#12

1,1-Dichloroethene

Concen: 0.373 ug/l

RT: 2.300 min Scan# 19

Delta R.T. -0.006 min

Lab File: VX044449.D

Acq: 20 Dec 2024 13:59

Tgt Ion:	96	Resp:	476
Ion	Ratio	Lower	Upper
96	100		
61	99.7	138.0	207.0
98	65.9	50.0	75.0

Instrument :

MSVOA_X

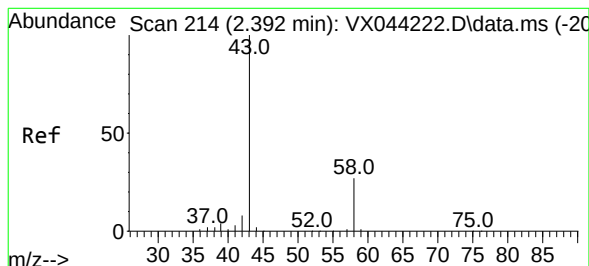
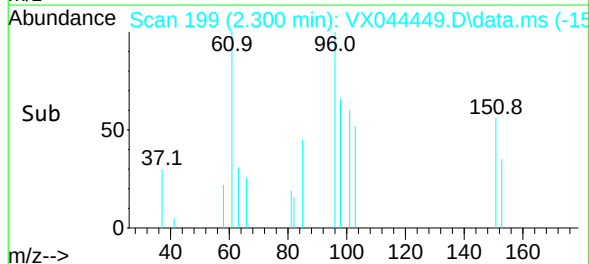
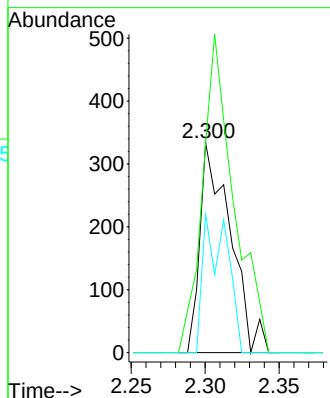
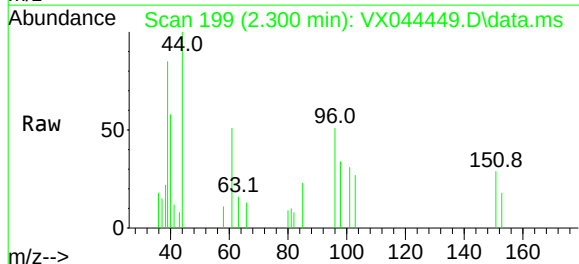
ClientSampleId :

BP-VPB-190A-GW-678-680DL

**Manual Integrations
APPROVED**

Reviewed By :John Carlone 12/20/2024

Supervised By :Semsettin Yesilyurt 12/23/2024



#16

Acetone

Concen: 1.614 ug/l

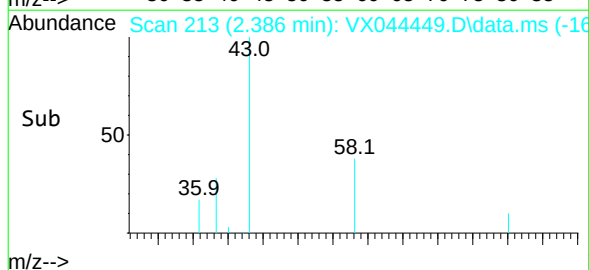
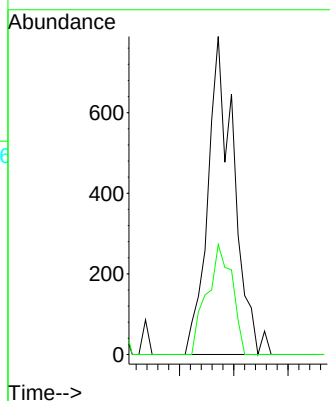
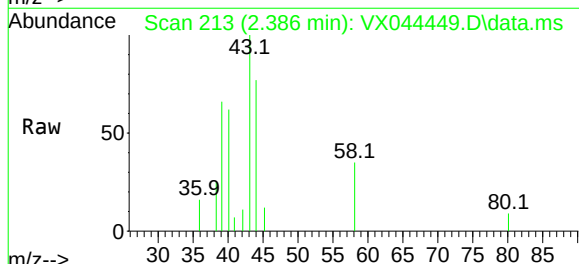
RT: 2.386 min Scan# 213

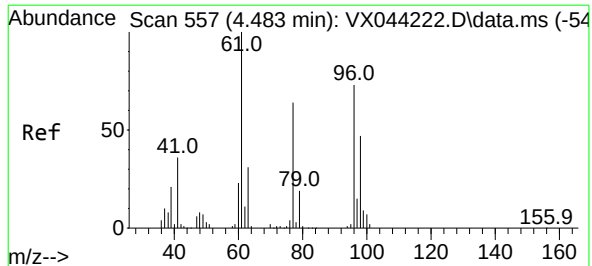
Delta R.T. -0.006 min

Lab File: VX044449.D

Acq: 20 Dec 2024 13:59

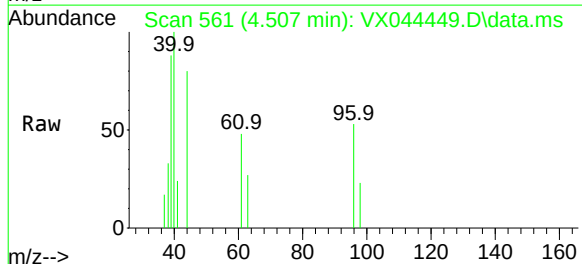
Tgt Ion:	43	Resp:	1314
Ion	Ratio	Lower	Upper
43	100		
58	34.6	21.6	32.4





#27
cis-1,2-Dichloroethene
Concen: 0.376 ug/l m
RT: 4.507 min Scan# 561
Delta R.T. 0.024 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

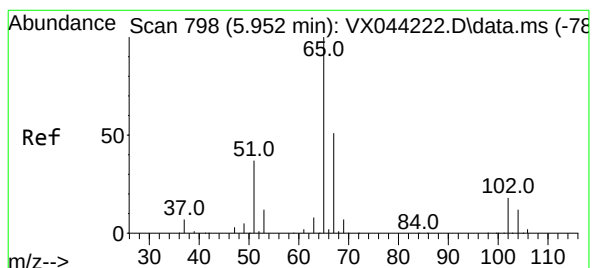
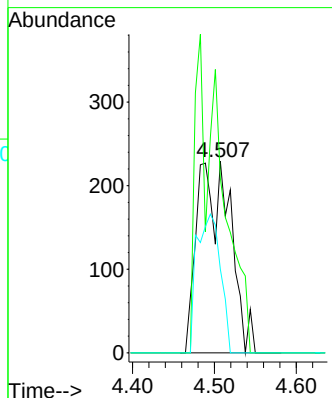
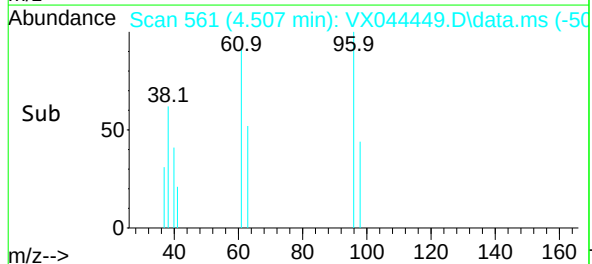
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680DL



Tgt Ion: 96 Resp: 648
Ion Ratio Lower Upper
96 100
61 47.2 0.0 299.0
98 51.2 0.0 129.0

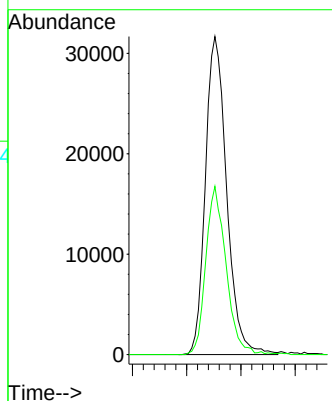
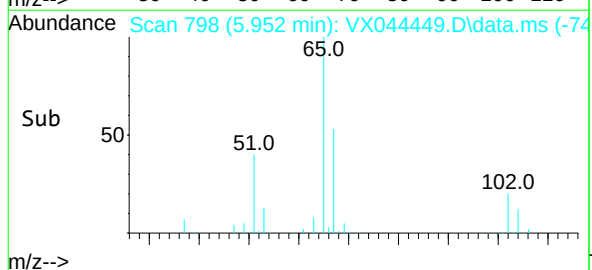
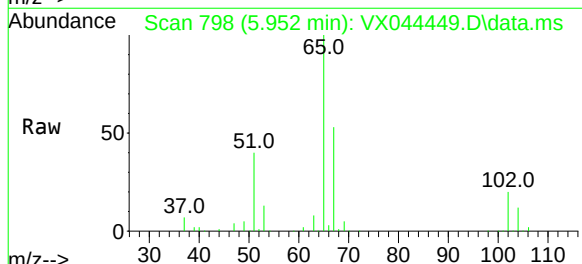
Manual Integrations
APPROVED

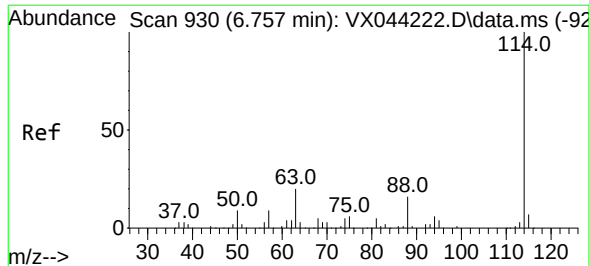
Reviewed By :John Carlone 12/20/2024
Supervised By :Semsettin Yesilyurt 12/23/2024



#33
1,2-Dichloroethane-d4
Concen: 43.213 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

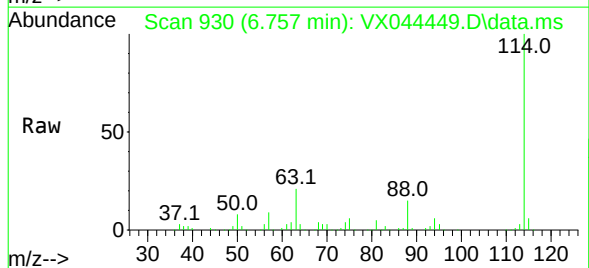
Tgt Ion: 65 Resp: 86311
Ion Ratio Lower Upper
65 100
67 50.2 0.0 101.6





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

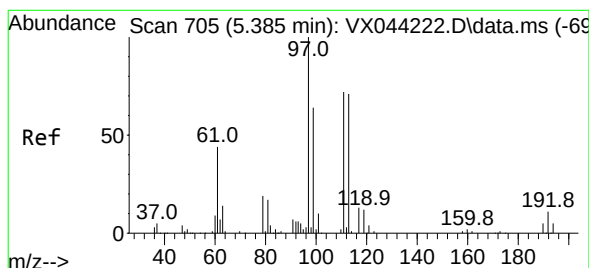
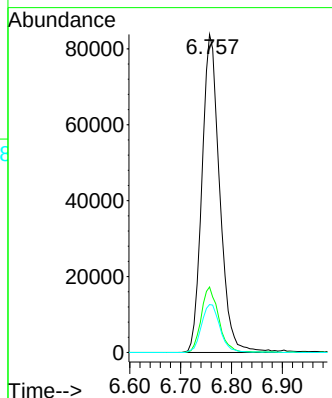
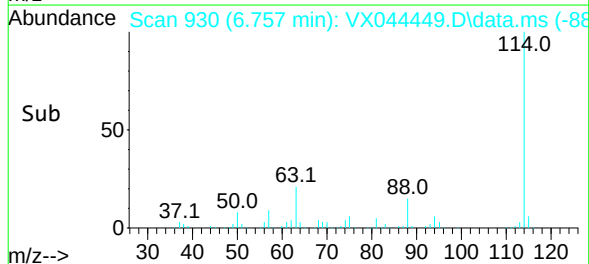
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680DL



Tgt Ion:114 Resp: 202874
Ion Ratio Lower Upper
114 100
63 20.6 0.0 40.6
88 15.1 0.0 31.8

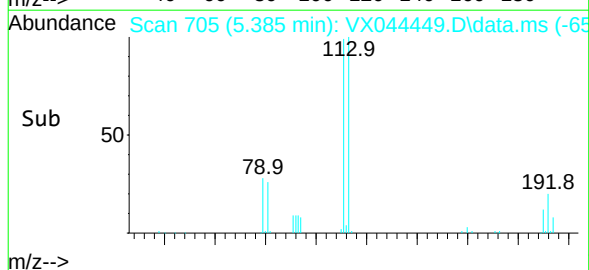
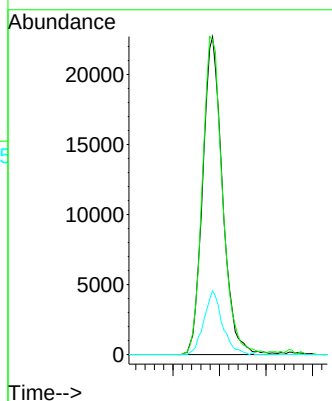
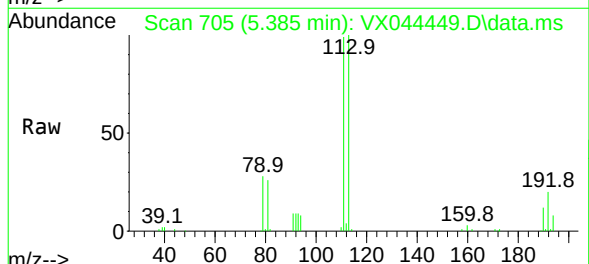
Manual Integrations
APPROVED

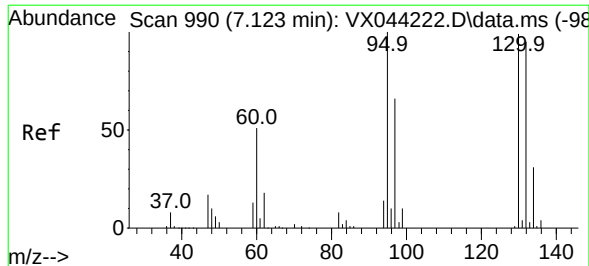
Reviewed By :John Carlone 12/20/2024
Supervised By :Semsettin Yesilyurt 12/23/2024



#35
Dibromofluoromethane
Concen: 47.751 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

Tgt Ion:113 Resp: 67094
Ion Ratio Lower Upper
113 100
111 101.6 80.4 120.6
192 18.7 13.3 19.9





#44

Trichloroethene

Concen: 60.531 ug/l

RT: 7.123 min Scan# 990

Delta R.T. -0.000 min

Lab File: VX044449.D

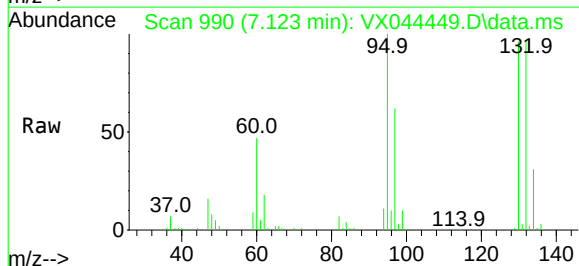
Acq: 20 Dec 2024 13:59

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-190A-GW-678-680DL



Tgt Ion:130 Resp: 83240

Ion Ratio Lower Upper

130 100

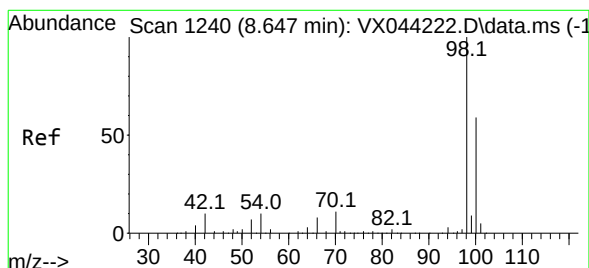
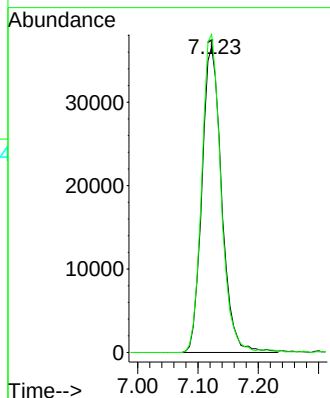
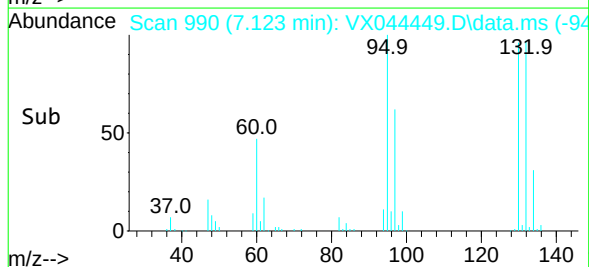
95 104.1 0.0 201.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/20/2024

Supervised By :Semsettin Yesilyurt 12/23/2024



#50

Toluene-d8

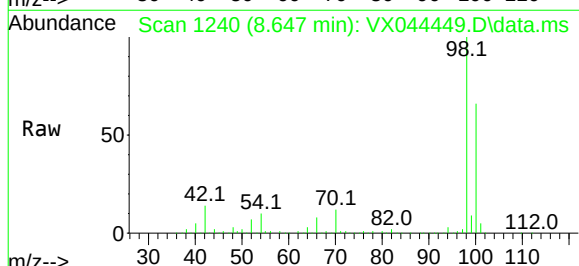
Concen: 50.880 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX044449.D

Acq: 20 Dec 2024 13:59

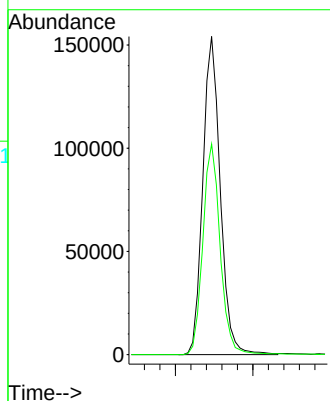
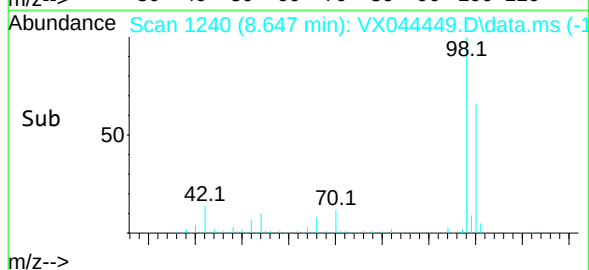


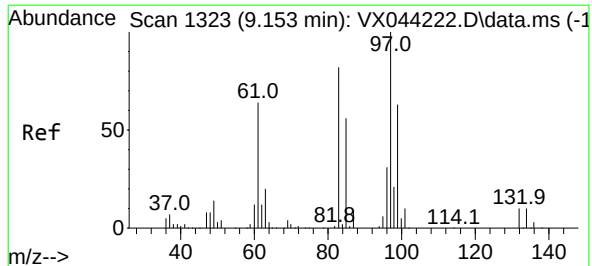
Tgt Ion: 98 Resp: 241190

Ion Ratio Lower Upper

98 100

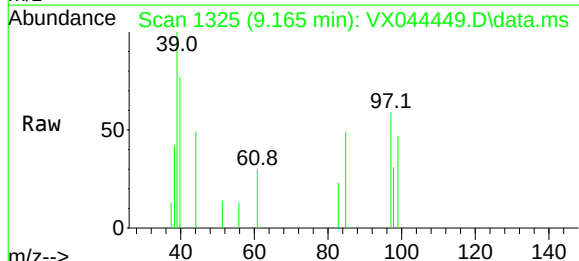
100 65.8 51.5 77.3





#55
1,1,2-Trichloroethane
Concen: 0.351 ug/l
RT: 9.165 min Scan# 1323
Delta R.T. 0.012 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

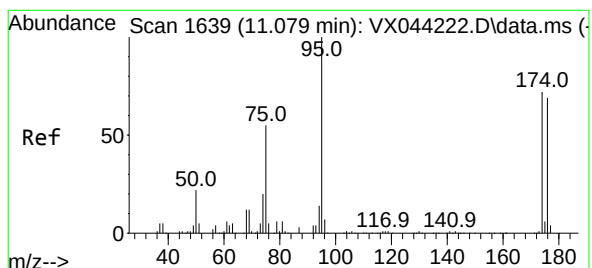
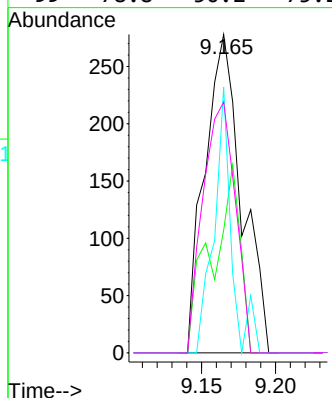
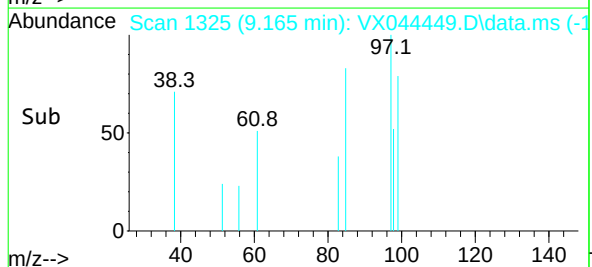
Instrument : MSVOA_X
ClientSampleId : BP-VPB-190A-GW-678-680DL



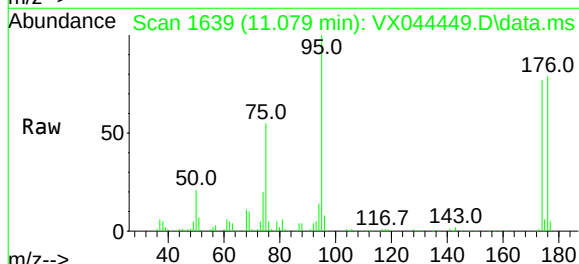
Tgt Ion	Ratio	Lower	Upper
97	100		
83	38.5	65.3	97.9#
85	83.5	44.6	67.0#
99	78.8	50.2	75.2#

Manual Integrations
APPROVED

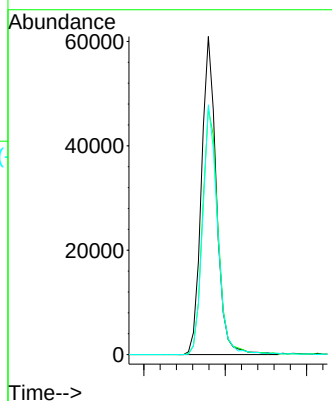
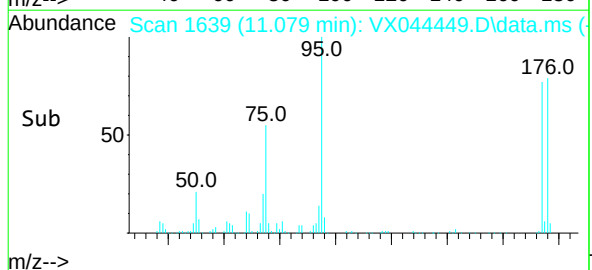
Reviewed By :John Carlone 12/20/2024
Supervised By :Semsettin Yesilyurt 12/23/2024

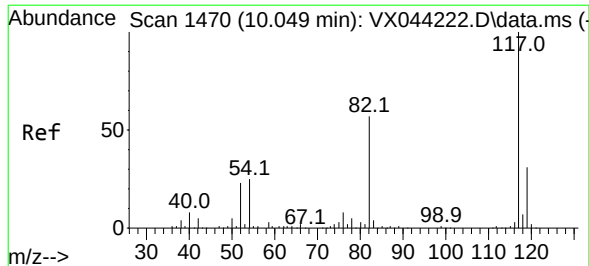


#62
4-Bromofluorobenzene
Concen: 47.010 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59



Tgt Ion	Ratio	Lower	Upper
95	100		
174	80.9	0.0	145.8
176	78.5	0.0	137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.006 min

Lab File: VX044449.D

Acq: 20 Dec 2024 13:59

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-190A-GW-678-680DL

Tgt Ion:117 Resp: 177737

Ion Ratio Lower Upper

117 100

82 54.3 45.8 68.8

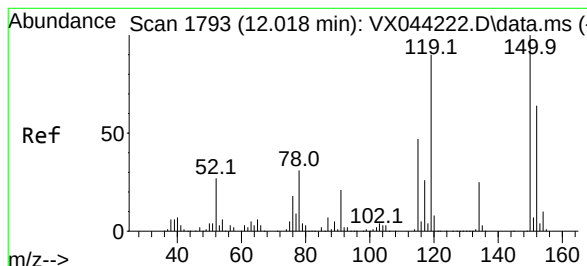
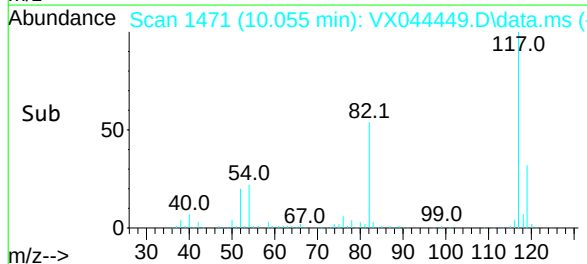
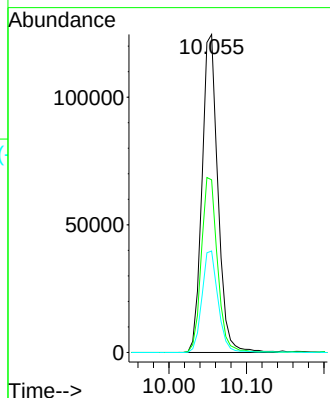
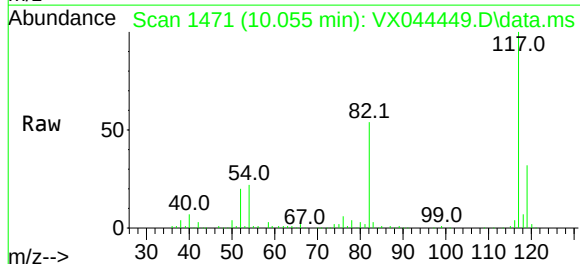
119 31.9 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/20/2024

Supervised By :Semsettin Yesilyurt 12/23/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX044449.D

Acq: 20 Dec 2024 13:59

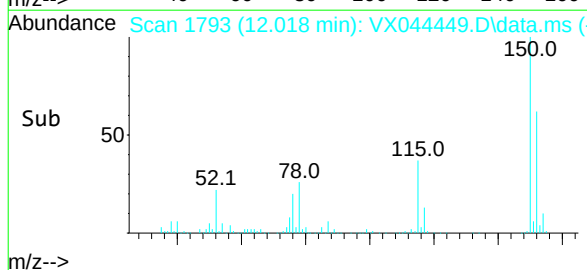
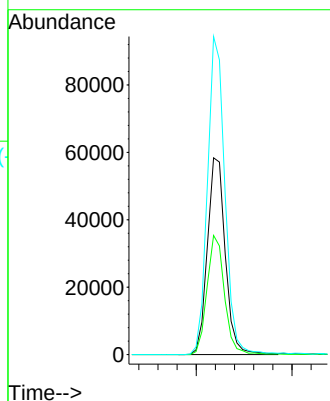
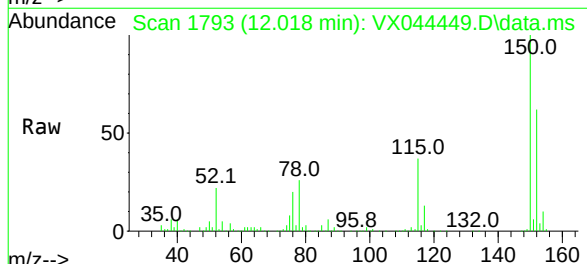
Tgt Ion:152 Resp: 76153

Ion Ratio Lower Upper

152 100

115 59.0 44.5 133.3

150 157.4 0.0 353.8



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/13/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	BP-VPB-190A-GW-698-700		SDG No.:	P5314	
Lab Sample ID:	P5314-03		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044446.D	1		12/20/24 12:49	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	10.9		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	1.70	J	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	4.40		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	12/13/24	
Project:	CTO WE13			Date Received:	12/17/24	
Client Sample ID:	BP-VPB-190A-GW-698-700			SDG No.:	P5314	
Lab Sample ID:	P5314-03			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044446.D	1		12/20/24 12:49	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.3		81 - 118		85%	SPK: 50
1868-53-7	Dibromofluoromethane	47.1		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	51.1		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	122000	5.55				
540-36-3	1,4-Difluorobenzene	211000	6.757				
3114-55-4	Chlorobenzene-d5	182000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	69200	12.024				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/13/24
Project:	CTO WE13	Date Received:	12/17/24
Client Sample ID:	BP-VPB-190A-GW-698-700	SDG No.:	P5314
Lab Sample ID:	P5314-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044446.D	1		12/20/24 12:49	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	-----	------------	-------

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044446.D
Acq On : 20 Dec 2024 12:49
Operator : JC/MD
Sample : P5314-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-698-700

Quant Time: Dec 20 14:08:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

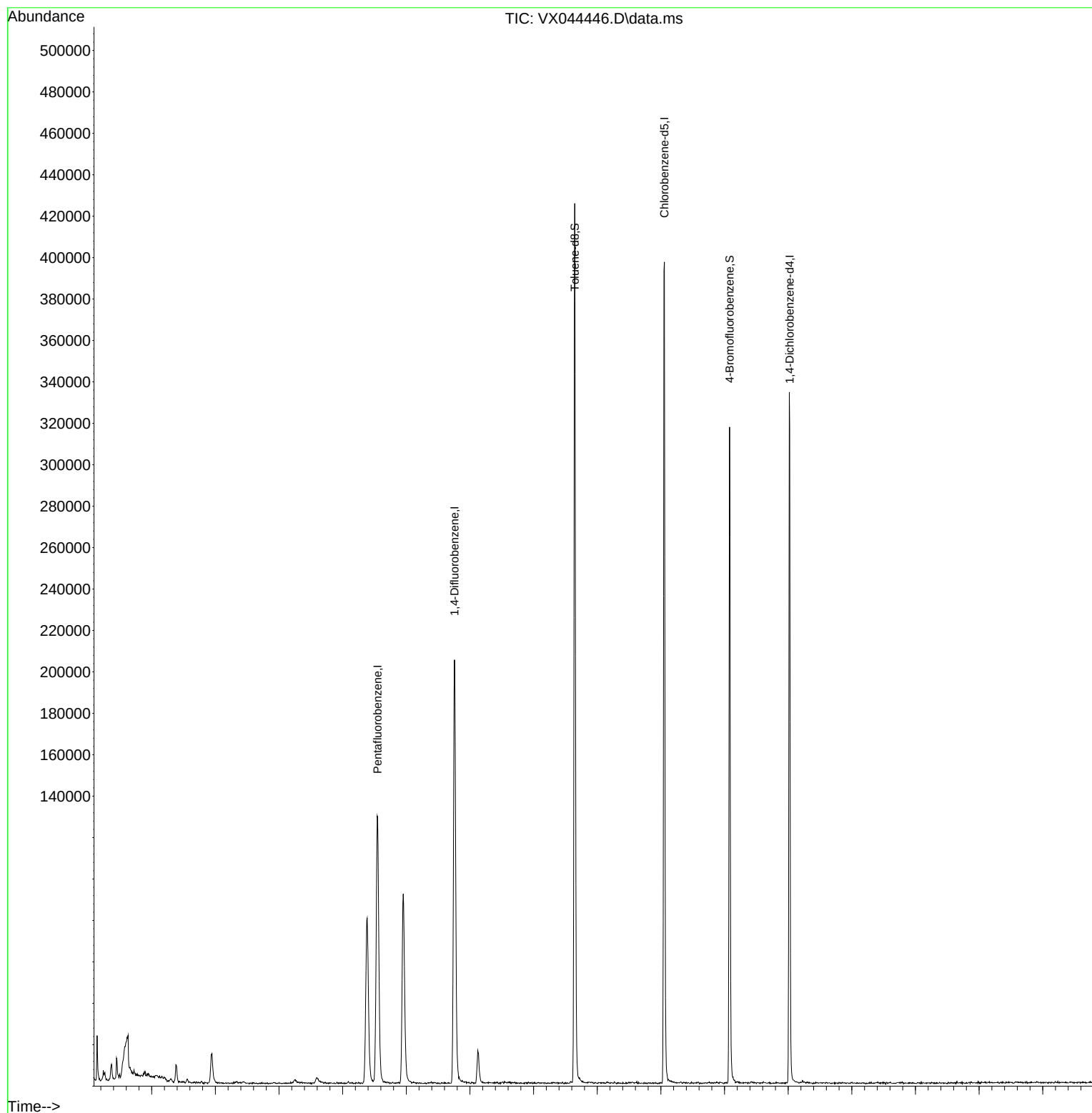
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	121735	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	211457	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	182367	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	69187	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	90187	42.254	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	84.500%	
35) Dibromofluoromethane	5.385	113	68986	47.104	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	94.200%	
50) Toluene-d8	8.647	98	252545	51.113	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	102.220%	
62) 4-Bromofluorobenzene	11.079	95	79964	46.316	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	92.640%	
Target Compounds						
11) Tert butyl alcohol	2.940	59	9223	30.660	ug/l #	72
16) Acetone	2.386	43	9498	10.915	ug/l	98
25) 2-Butanone	4.617	43	2159	1.745	ug/l	99
44) Trichloroethene	7.122	130	6238	4.352	ug/l	93

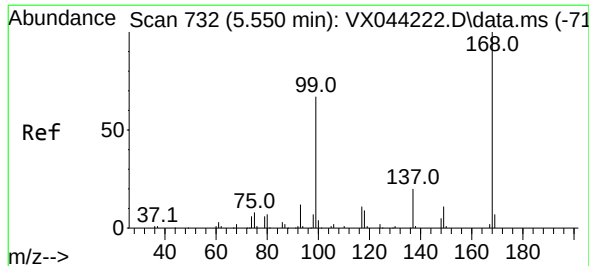
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044446.D
Acq On : 20 Dec 2024 12:49
Operator : JC/MD
Sample : P5314-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-698-700

Quant Time: Dec 20 14:08:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

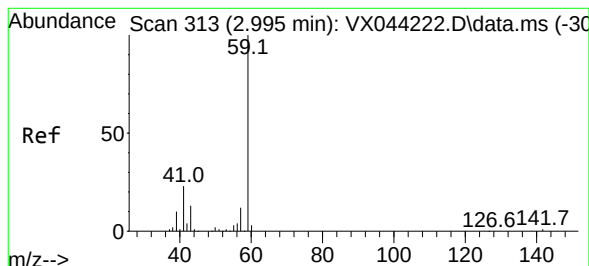
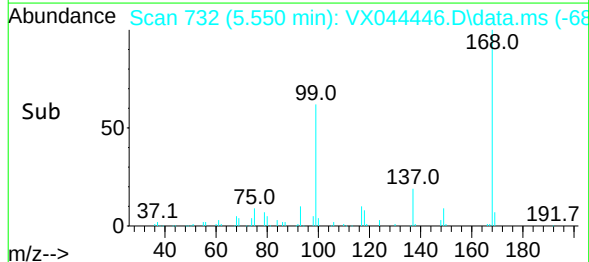
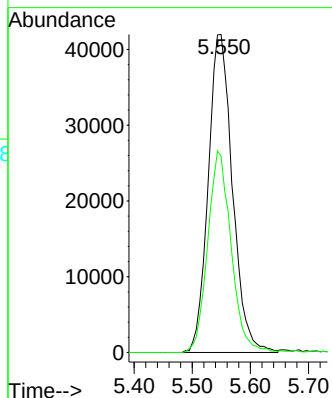
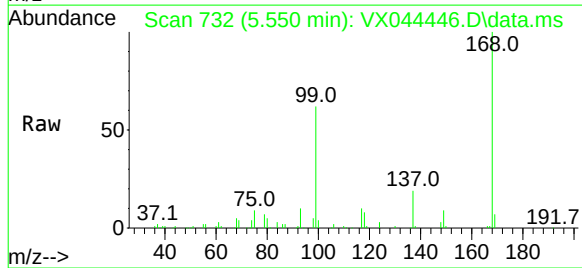




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 731
Delta R.T. -0.000 min
Lab File: VX044446.D
Acq: 20 Dec 2024 12:49

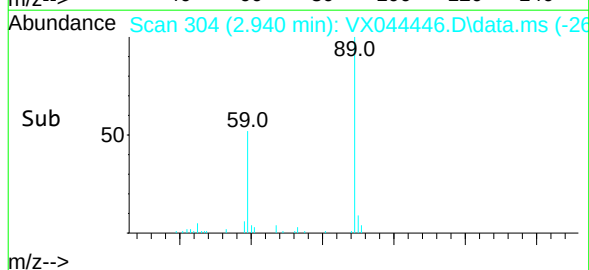
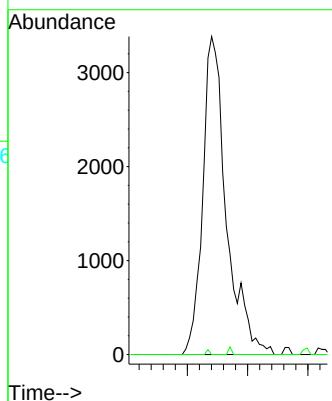
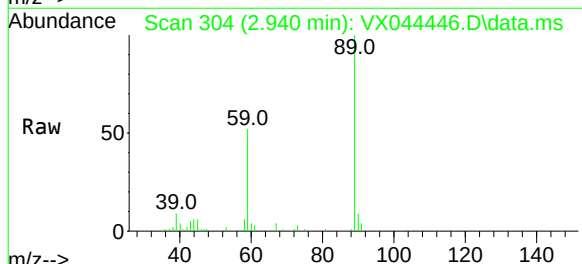
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-698-700

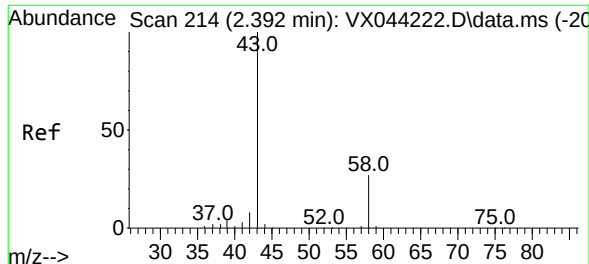
Tgt Ion:168 Resp: 121735
Ion Ratio Lower Upper
168 100
99 61.7 53.4 80.0



#11
Tert butyl alcohol
Concen: 30.660 ug/l
RT: 2.940 min Scan# 304
Delta R.T. -0.055 min
Lab File: VX044446.D
Acq: 20 Dec 2024 12:49

Tgt Ion: 59 Resp: 9223
Ion Ratio Lower Upper
59 100
57 0.2 8.8 13.2#





#16

Acetone

Concen: 10.915 ug/l

RT: 2.386 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX044446.D

Acq: 20 Dec 2024 12:49

Instrument :

MSVOA_X

ClientSampleId :

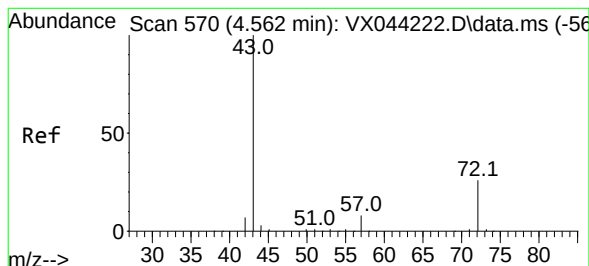
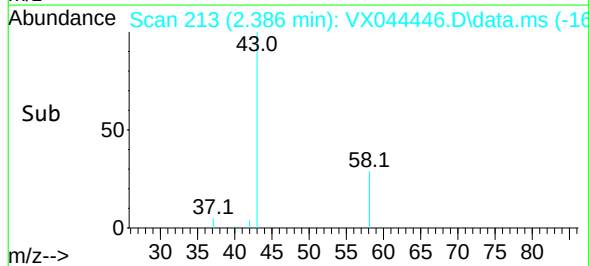
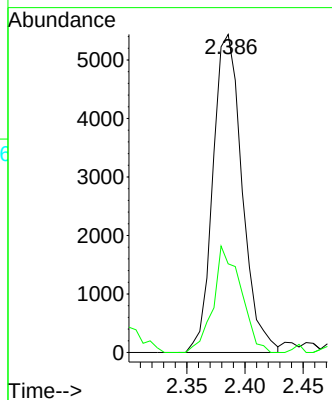
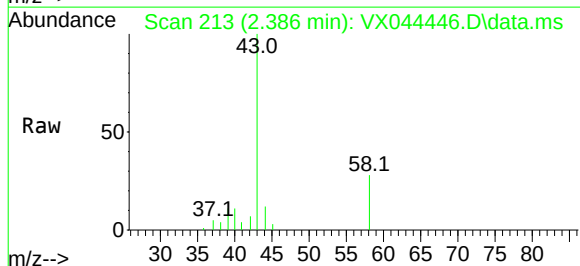
BP-VPB-190A-GW-698-700

Tgt Ion: 43 Resp: 9498

Ion Ratio Lower Upper

43 100

58 27.9 21.6 32.4



#25

2-Butanone

Concen: 1.745 ug/l

RT: 4.617 min Scan# 579

Delta R.T. 0.055 min

Lab File: VX044446.D

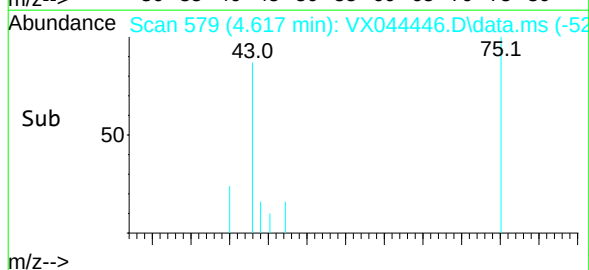
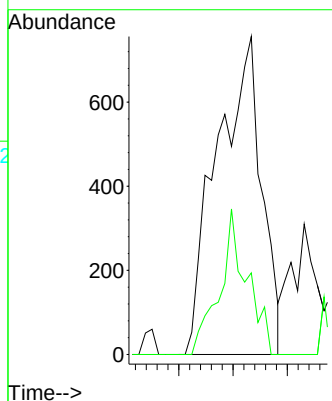
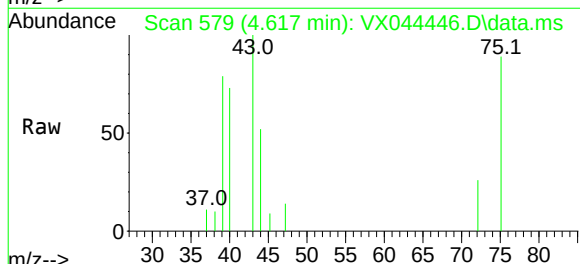
Acq: 20 Dec 2024 12:49

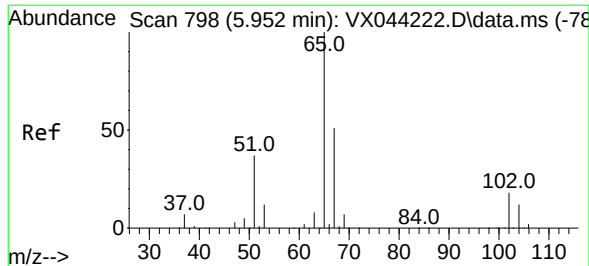
Tgt Ion: 43 Resp: 2159

Ion Ratio Lower Upper

43 100

72 25.7 20.2 30.4





#33

1,2-Dichloroethane-d4

Concen: 42.254 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX044446.D

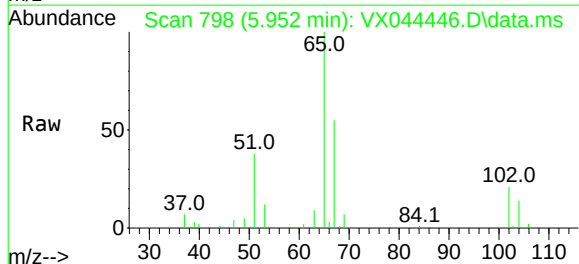
Acq: 20 Dec 2024 12:49

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-190A-GW-698-700

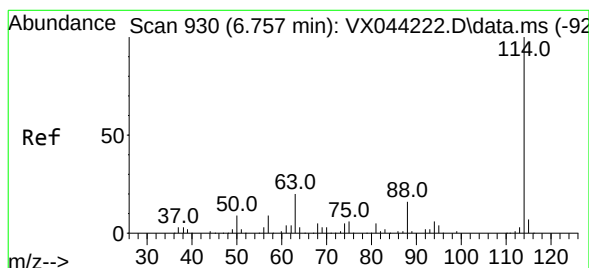
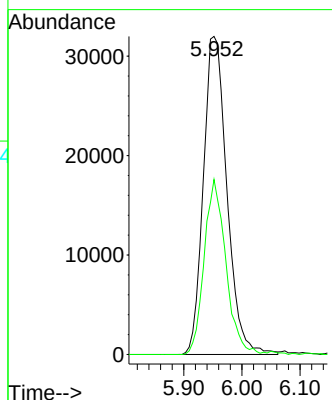
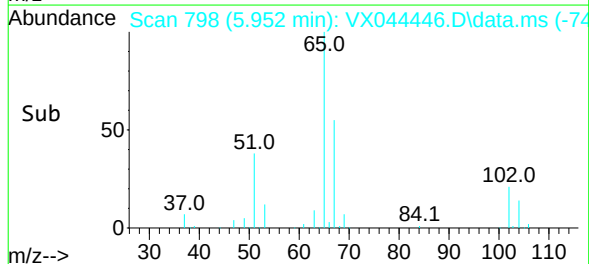


Tgt Ion: 65 Resp: 90187

Ion Ratio Lower Upper

65 100

67 50.4 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX044446.D

Acq: 20 Dec 2024 12:49

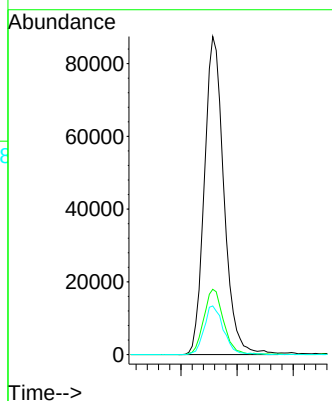
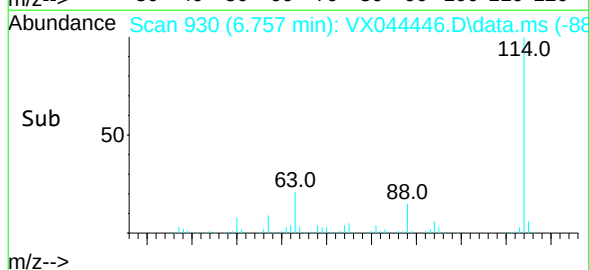
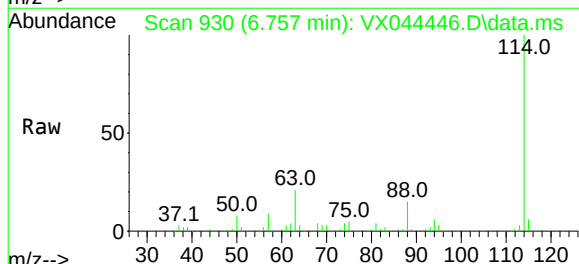
Tgt Ion: 114 Resp: 211457

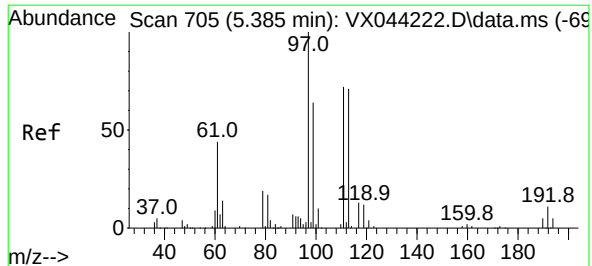
Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.6

88 15.3 0.0 31.8





#35

Dibromofluoromethane

Concen: 47.104 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX044446.D

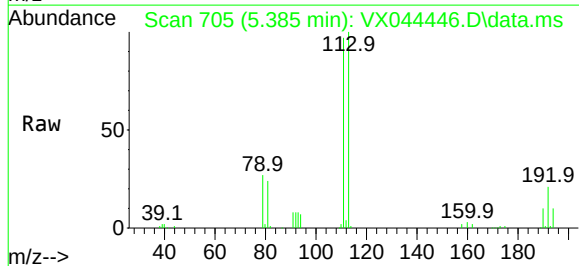
Acq: 20 Dec 2024 12:49

Instrument :

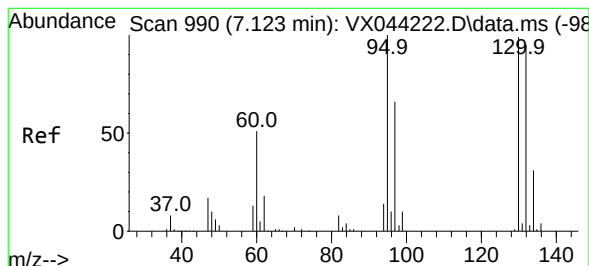
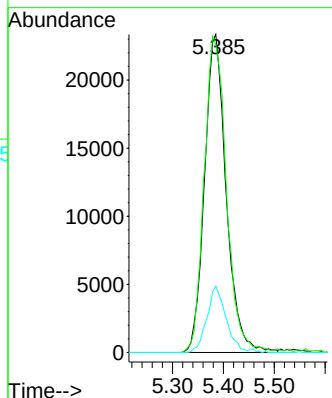
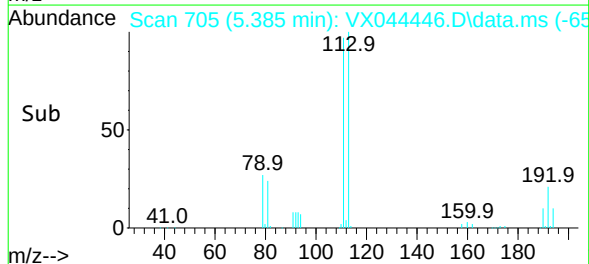
MSVOA_X

ClientSampleId :

BP-VPB-190A-GW-698-700



Tgt Ion:	113	Resp:	68986
Ion	Ratio	Lower	Upper
113	100		
111	102.2	80.4	120.6
192	18.3	13.3	19.9



#44

Trichloroethene

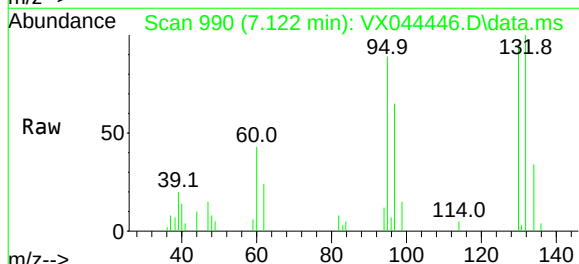
Concen: 4.352 ug/l

RT: 7.122 min Scan# 990

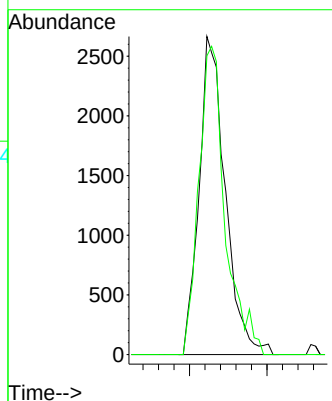
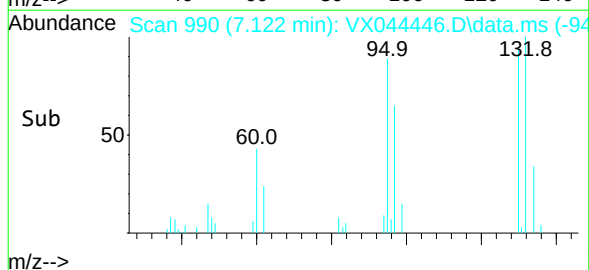
Delta R.T. -0.000 min

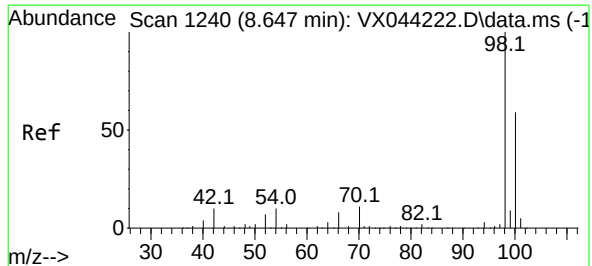
Lab File: VX044446.D

Acq: 20 Dec 2024 12:49



Tgt Ion:	130	Resp:	6238
Ion	Ratio	Lower	Upper
130	100		
95	93.9	0.0	201.4





#50

Toluene-d8

Concen: 51.113 ug/l

RT: 8.647 min Scan# 12

Delta R.T. -0.000 min

Lab File: VX044446.D

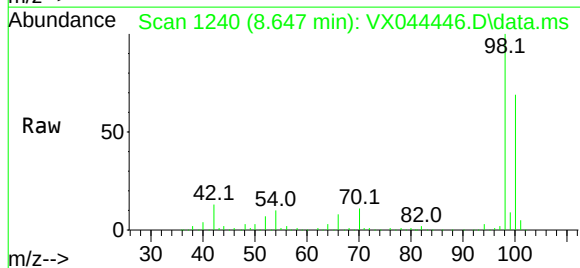
Acq: 20 Dec 2024 12:49

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-190A-GW-698-700

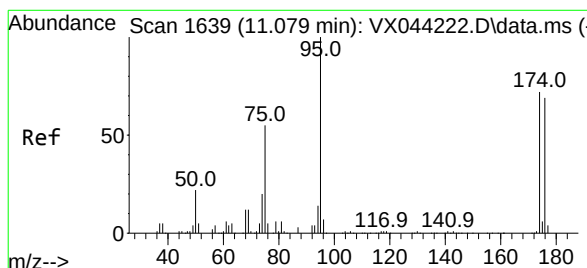
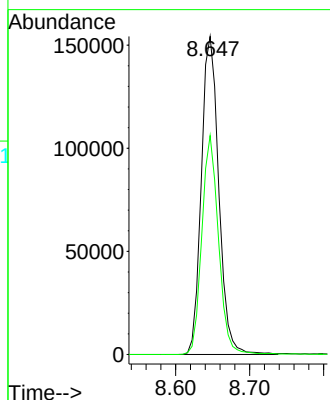
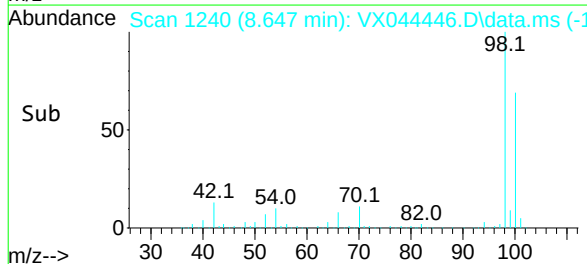


Tgt Ion: 98 Resp: 252545

Ion Ratio Lower Upper

98 100

100 65.9 51.5 77.3



#62

4-Bromofluorobenzene

Concen: 46.316 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX044446.D

Acq: 20 Dec 2024 12:49

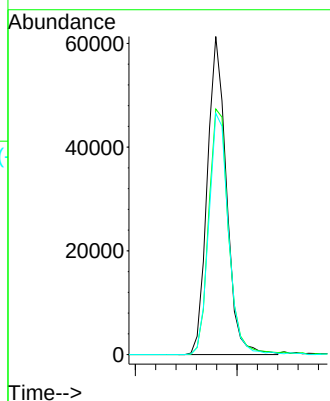
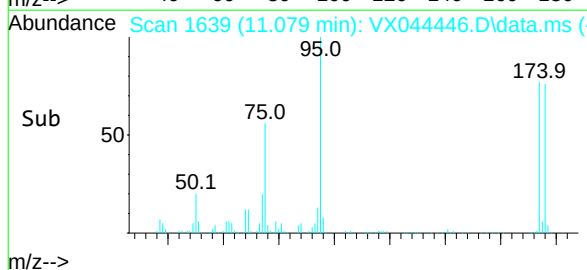
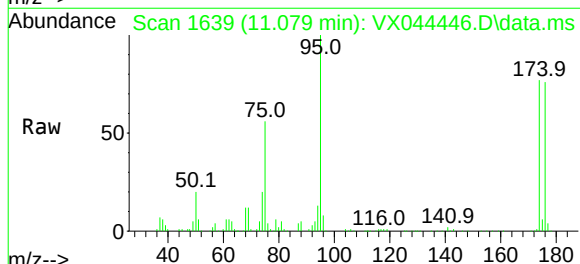
Tgt Ion: 95 Resp: 79964

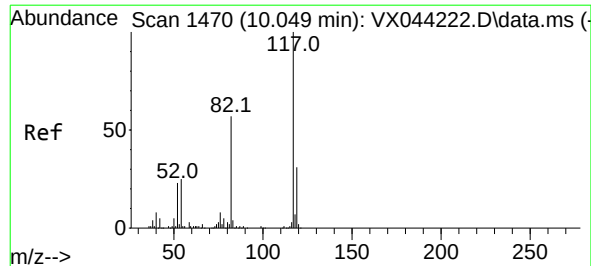
Ion Ratio Lower Upper

95 100

174 81.0 0.0 145.8

176 78.0 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 14

Delta R.T. 0.006 min

Lab File: VX044446.D

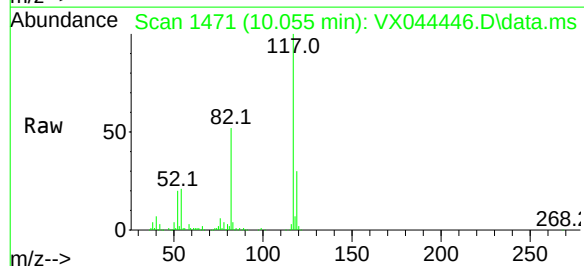
Acq: 20 Dec 2024 12:49

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-190A-GW-698-700



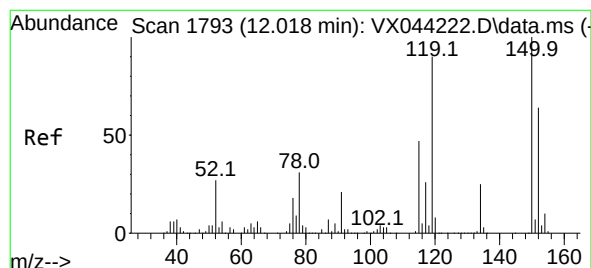
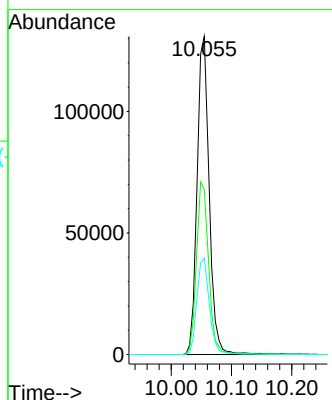
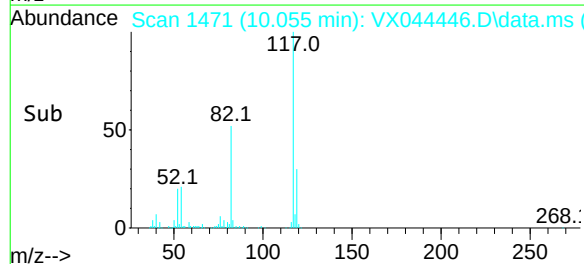
Tgt Ion:117 Resp: 182367

Ion Ratio Lower Upper

117 100

82 51.9 45.8 68.8

119 30.2 25.0 37.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.006 min

Lab File: VX044446.D

Acq: 20 Dec 2024 12:49

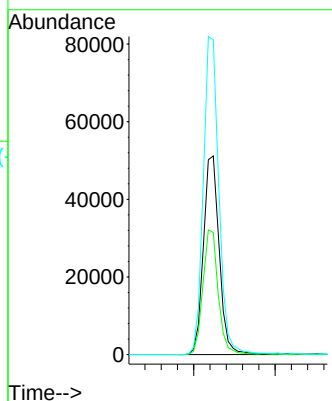
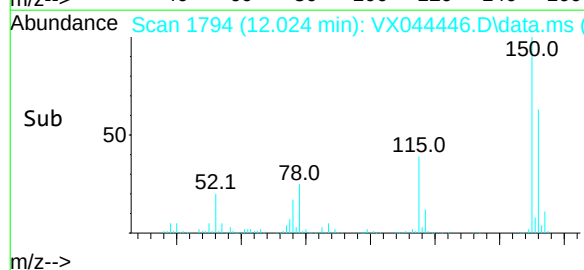
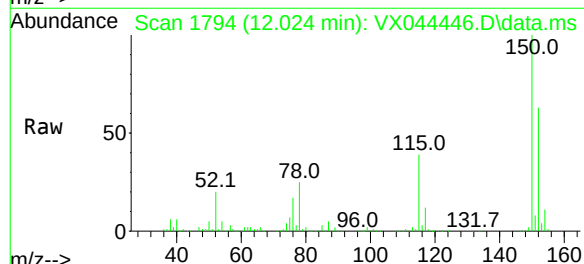
Tgt Ion:152 Resp: 69187

Ion Ratio Lower Upper

152 100

115 60.7 44.5 133.3

150 157.7 0.0 353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044446.D
Acq On : 20 Dec 2024 12:49
Operator : JC/MD
Sample : P5314-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-698-700

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Title : SW846 8260

Signal : TIC: VX044446.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.142	6	9	14	rBV	21544	20791	3.06%	0.571%
2	1.367	41	46	52	rVB4	7121	11512	1.69%	0.316%
3	1.447	54	59	65	rBV	10089	13706	2.02%	0.377%
4	1.575	69	80	81	rBV	14944	34966	5.14%	0.961%
5	2.379	206	212	219	rBV	8681	16151	2.38%	0.444%
6	2.946	297	305	317	rVB2	14101	34625	5.09%	0.951%
7	5.385	693	705	718	rBV	79863	238960	35.14%	6.566%
8	5.543	720	731	747	rVB	128629	371861	54.69%	10.217%
9	5.952	789	798	816	rBV	91503	252430	37.12%	6.936%
10	6.757	921	930	941	rBV	204383	496128	72.96%	13.632%
11	7.122	984	990	1001	rBV2	15895	36706	5.40%	1.009%
12	8.647	1234	1240	1251	rBV	424283	680002	100.00%	18.684%
13	10.055	1465	1471	1480	rBV	396525	572189	84.15%	15.722%
14	11.079	1634	1639	1651	rBV	316709	416142	61.20%	11.434%
15	12.018	1788	1793	1810	rBV	333358	443342	65.20%	12.181%

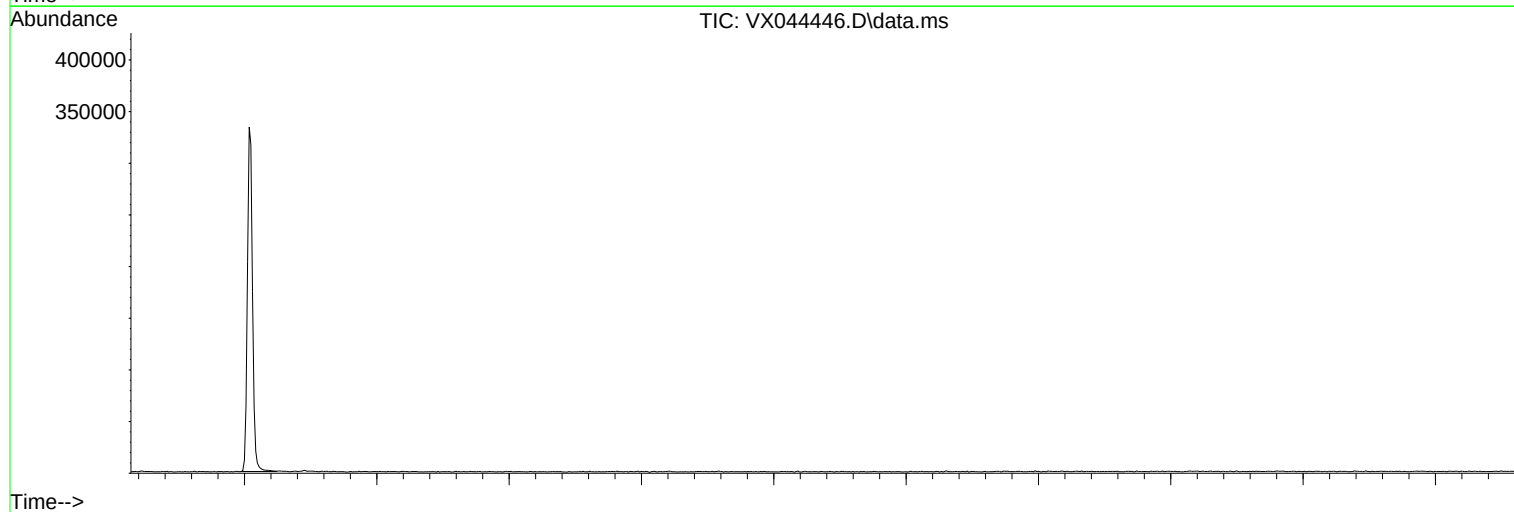
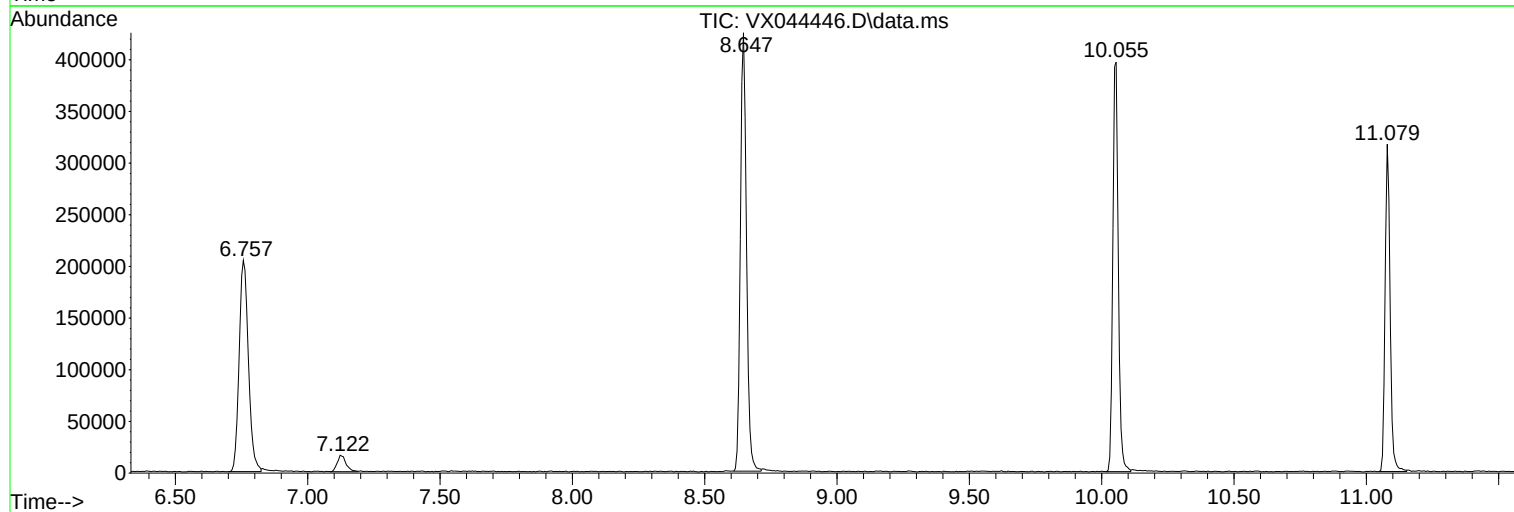
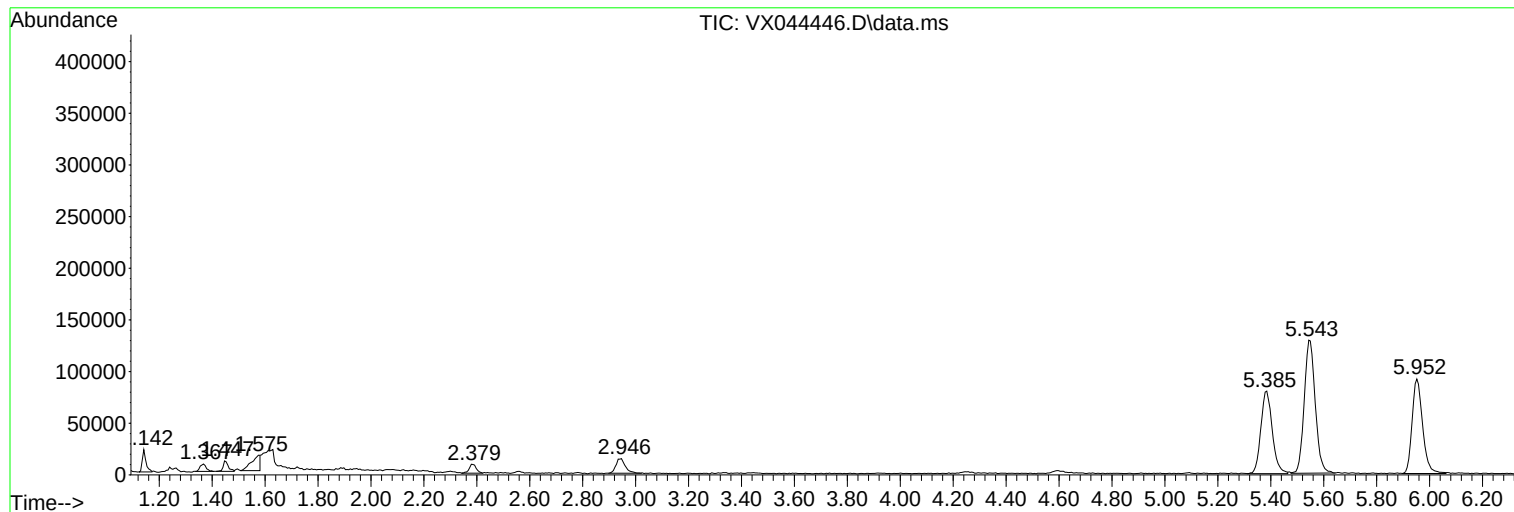
Sum of corrected areas: 3639511

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044446.D
Acq On : 20 Dec 2024 12:49
Operator : JC/MD
Sample : P5314-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-698-700

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044446.D
Acq On : 20 Dec 2024 12:49
Operator : JC/MD
Sample : P5314-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-698-700

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044446.D
Acq On : 20 Dec 2024 12:49
Operator : JC/MD
Sample : P5314-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-698-700

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/17/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	VPB190A-HYD-20241217		SDG No.:	P5314	
Lab Sample ID:	P5314-04		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044454.D	1		12/20/24 15:56	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	2.70	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/17/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	VPB190A-HYD-20241217		SDG No.:	P5314	
Lab Sample ID:	P5314-04		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044454.D	1		12/20/24 15:56	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.8		81 - 118		86%	SPK: 50
1868-53-7	Dibromofluoromethane	46.8		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	50.6		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.4		85 - 114		91%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	120000	5.55				
540-36-3	1,4-Difluorobenzene	212000	6.757				
3114-55-4	Chlorobenzene-d5	184000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	74200	12.024				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/17/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	VPB190A-HYD-20241217		SDG No.:	P5314	
Lab Sample ID:	P5314-04		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044454.D	1		12/20/24 15:56	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	-----	------------	-------

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044454.D
Acq On : 20 Dec 2024 15:56
Operator : JC/MD
Sample : P5314-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VPB190A-HYD-20241217

Quant Time: Dec 20 16:22:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

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

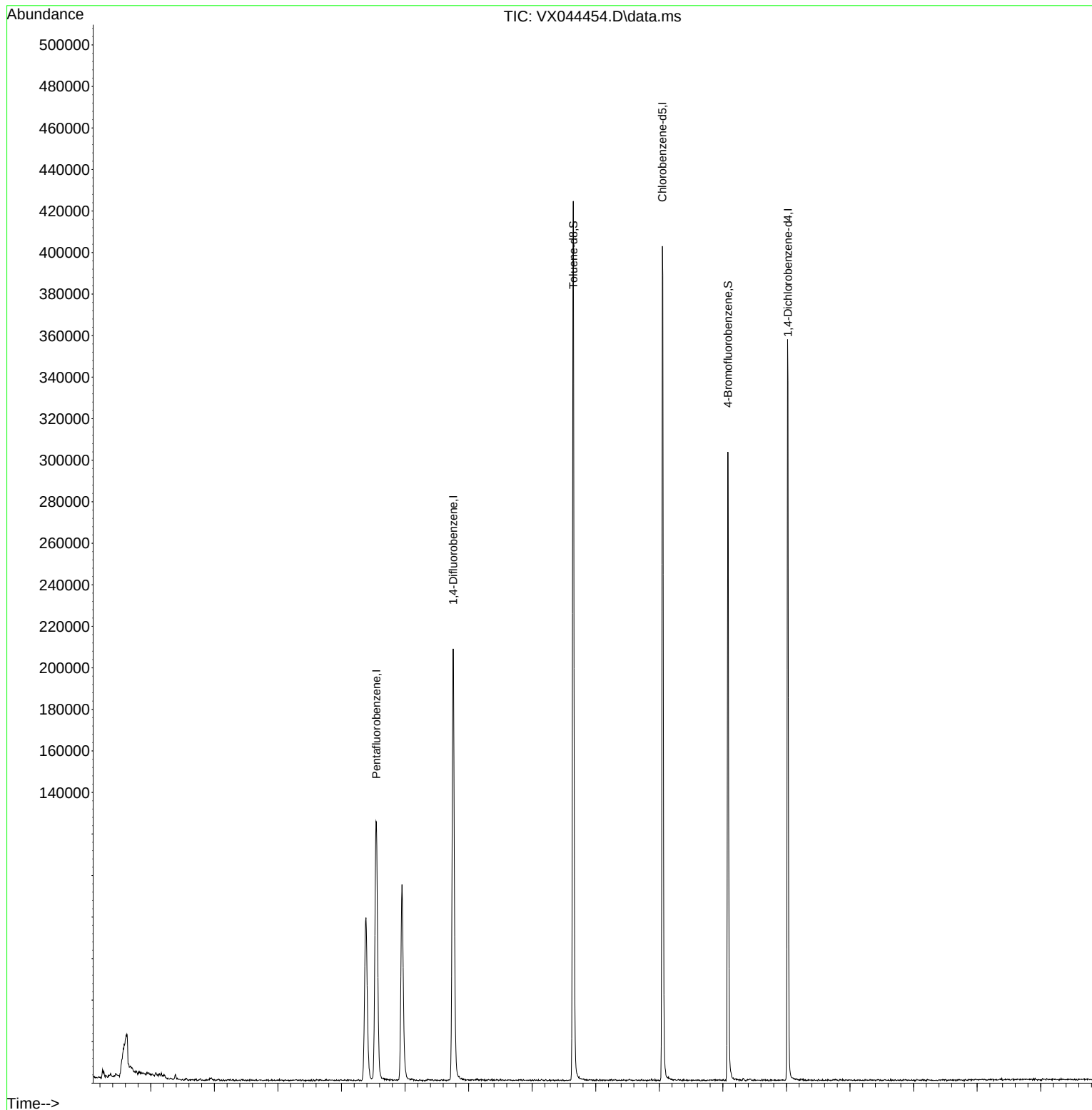
Internal Standards						
1) Pentafluorobenzene	5.550	168	120419	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	211996	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	183684	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	74241	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	90307	42.772	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	85.540%	
35) Dibromofluoromethane	5.385	113	68667	46.767	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	93.540%	
50) Toluene-d8	8.647	98	250790	50.629	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	101.260%	
62) 4-Bromofluorobenzene	11.079	95	78660	45.445	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	90.900%	
Target Compounds						
16) Acetone	2.386	43	2305	2.678	ug/l	Qvalue 93

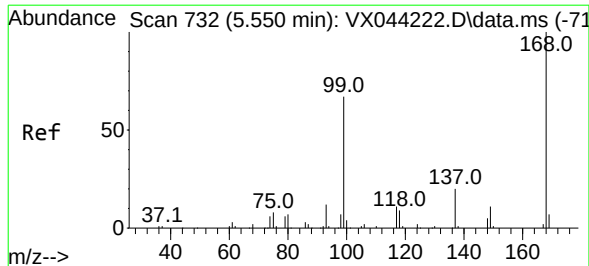
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044454.D
Acq On : 20 Dec 2024 15:56
Operator : JC/MD
Sample : P5314-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VPB190A-HYD-20241217

Quant Time: Dec 20 16:22:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.550 min Scan# 73

Delta R.T. -0.000 min

Lab File: VX044454.D

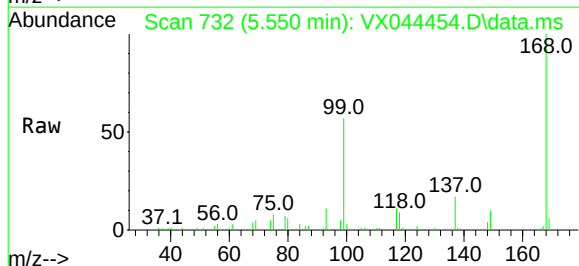
Acq: 20 Dec 2024 15:56

Instrument :

MSVOA_X

ClientSampleId :

VPB190A-HYD-20241217

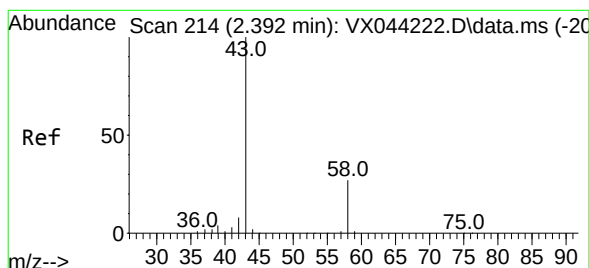
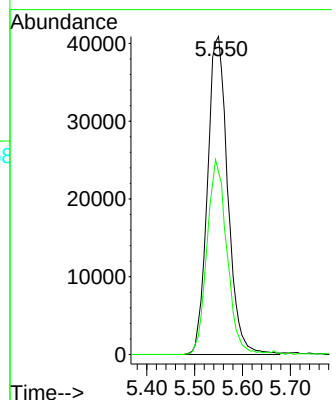
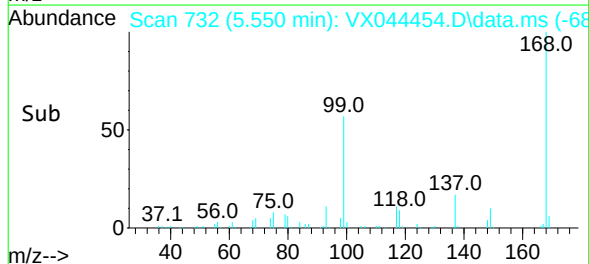


Tgt Ion:168 Resp: 120419

Ion Ratio Lower Upper

168 100

99 57.4 53.4 80.0



#16

Acetone

Concen: 2.678 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.006 min

Lab File: VX044454.D

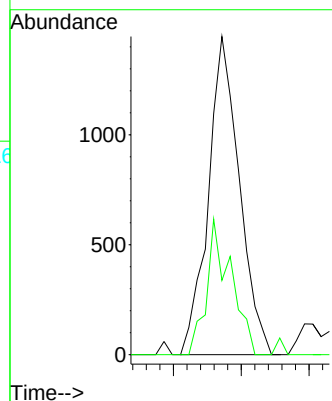
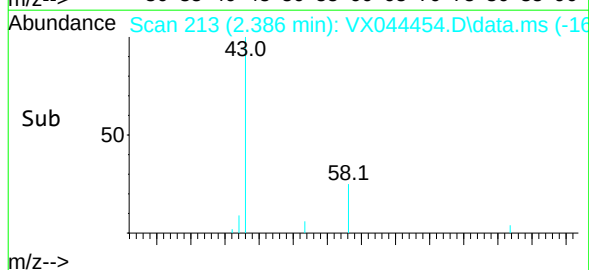
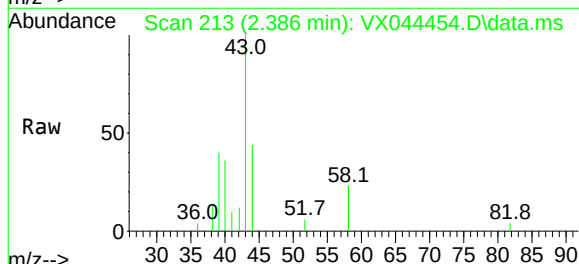
Acq: 20 Dec 2024 15:56

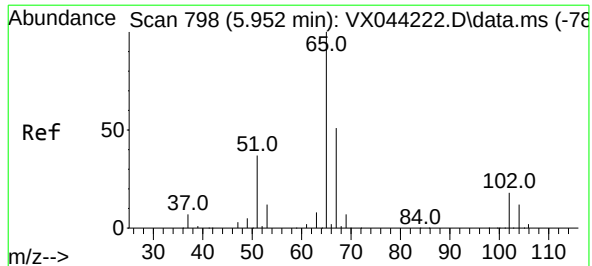
Tgt Ion: 43 Resp: 2305

Ion Ratio Lower Upper

43 100

58 23.4 21.6 32.4





#33

1,2-Dichloroethane-d4

Concen: 42.772 ug/l

RT: 5.952 min Scan# 79

Delta R.T. -0.000 min

Lab File: VX044454.D

Acq: 20 Dec 2024 15:56

Instrument :

MSVOA_X

ClientSampleId :

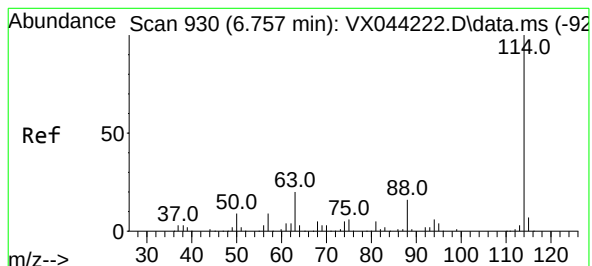
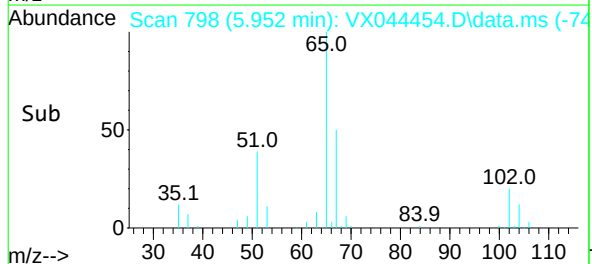
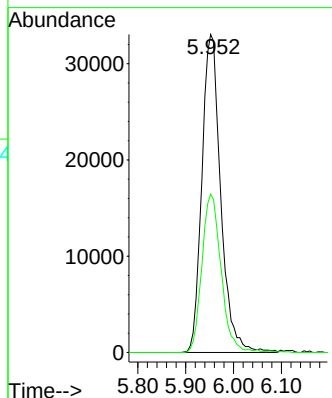
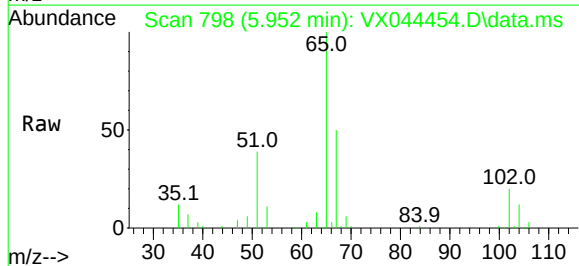
VPB190A-HYD-20241217

Tgt Ion: 65 Resp: 90307

Ion Ratio Lower Upper

65 100

67 50.7 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX044454.D

Acq: 20 Dec 2024 15:56

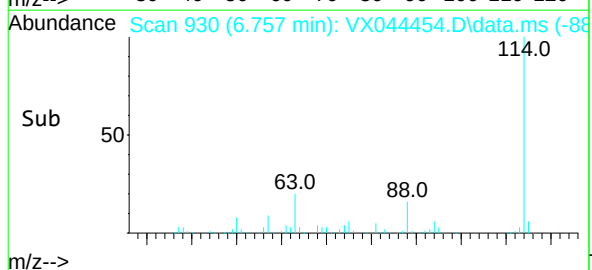
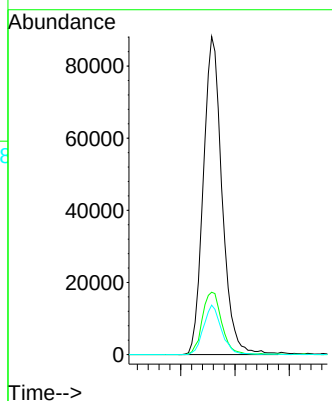
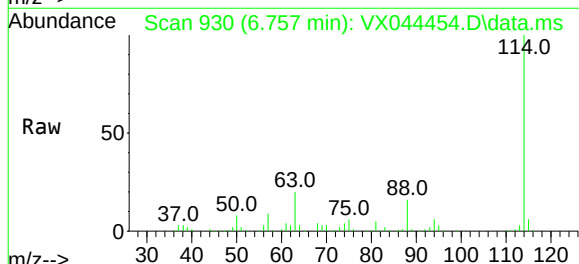
Tgt Ion: 114 Resp: 211996

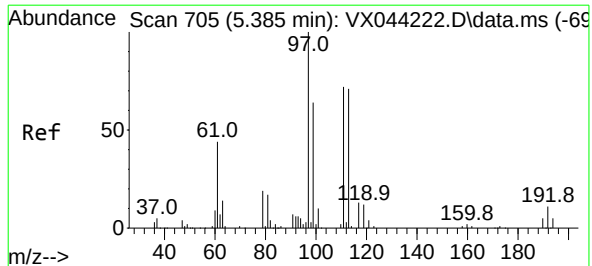
Ion Ratio Lower Upper

114 100

63 19.6 0.0 40.6

88 15.5 0.0 31.8





#35

Dibromofluoromethane

Concen: 46.767 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX044454.D

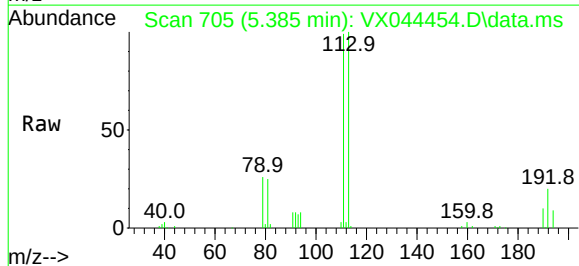
Acq: 20 Dec 2024 15:56

Instrument :

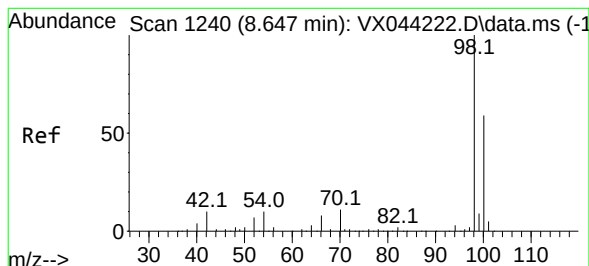
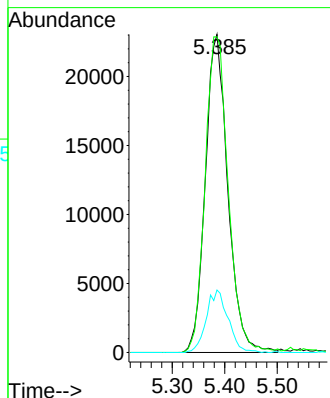
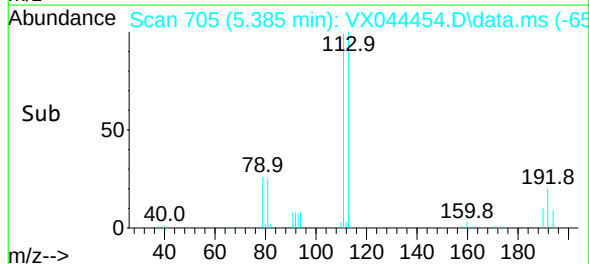
MSVOA_X

ClientSampleId :

VPB190A-HYD-20241217



Tgt Ion:	113	Resp:	68667
Ion	Ratio	Lower	Upper
113	100		
111	102.4	80.4	120.6
192	19.0	13.3	19.9



#50

Toluene-d8

Concen: 50.629 ug/l

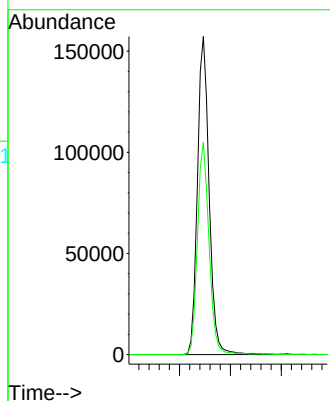
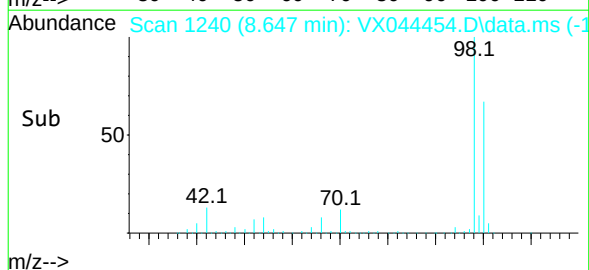
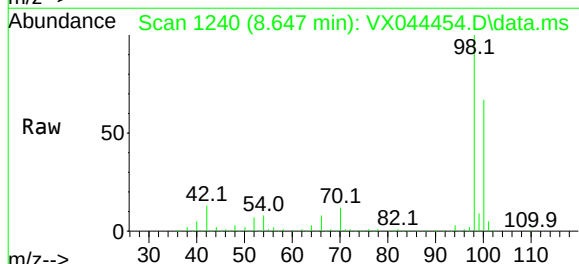
RT: 8.647 min Scan# 1240

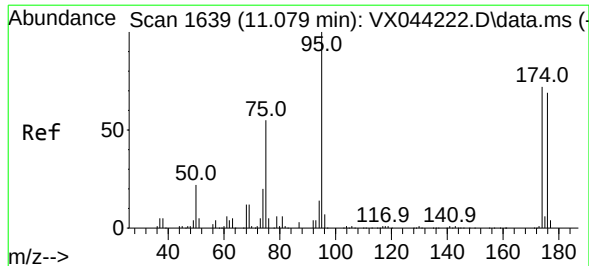
Delta R.T. -0.000 min

Lab File: VX044454.D

Acq: 20 Dec 2024 15:56

Tgt Ion:	98	Resp:	250790
Ion	Ratio	Lower	Upper
98	100		
100	66.2	51.5	77.3





#62

4-Bromofluorobenzene

Concen: 45.445 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX044454.D

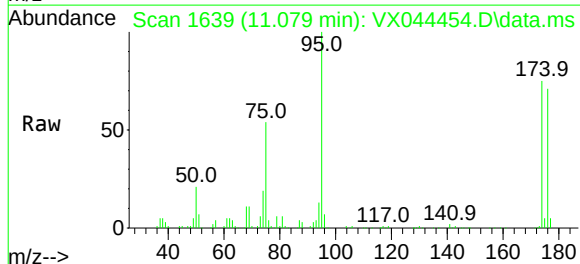
Acq: 20 Dec 2024 15:56

Instrument :

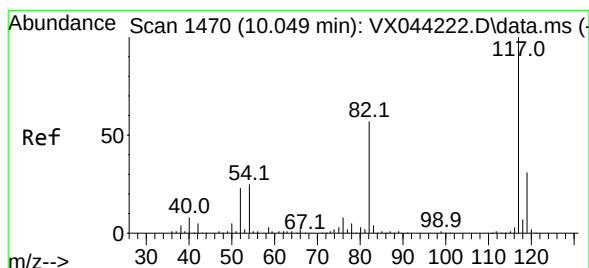
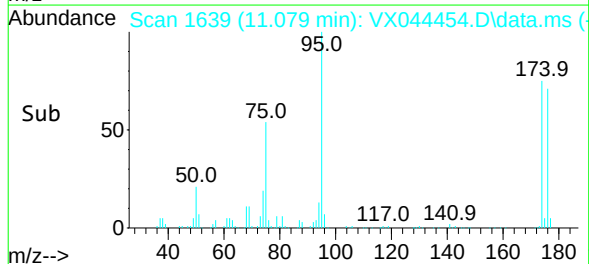
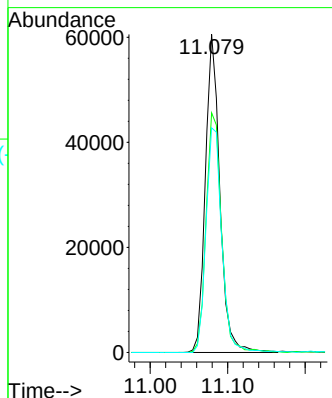
MSVOA_X

ClientSampleId :

VPB190A-HYD-20241217



Tgt Ion:	95	Resp:	78660
Ion	Ratio	Lower	Upper
95	100		
174	80.3	0.0	145.8
176	77.1	0.0	137.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

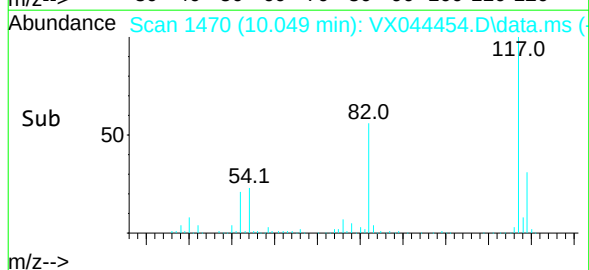
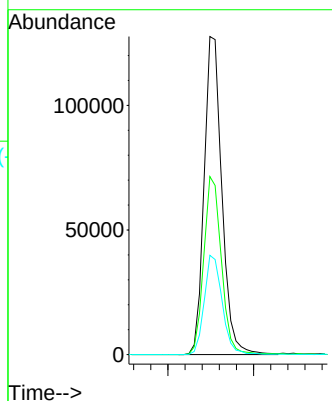
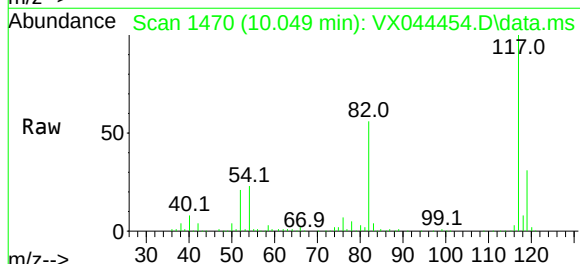
RT: 10.049 min Scan# 1470

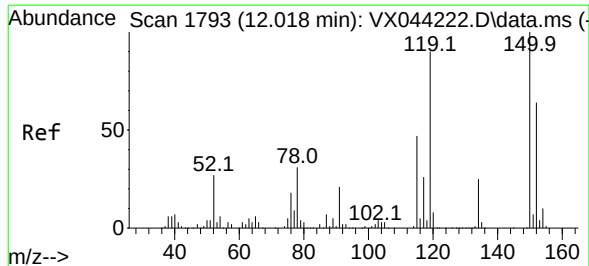
Delta R.T. -0.000 min

Lab File: VX044454.D

Acq: 20 Dec 2024 15:56

Tgt Ion:	117	Resp:	183684
Ion	Ratio	Lower	Upper
117	100		
82	56.0	45.8	68.8
119	31.2	25.0	37.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 17

Delta R.T. 0.006 min

Lab File: VX044454.D

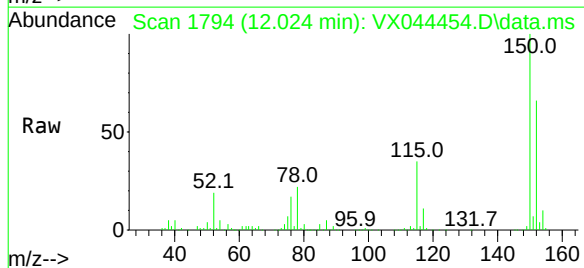
Acq: 20 Dec 2024 15:56

Instrument :

MSVOA_X

ClientSampleId :

VPB190A-HYD-20241217



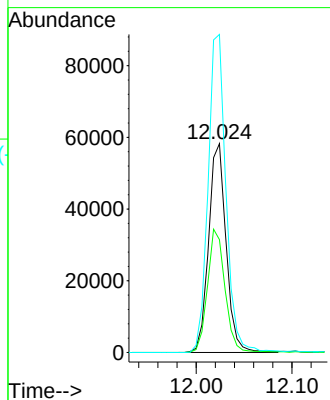
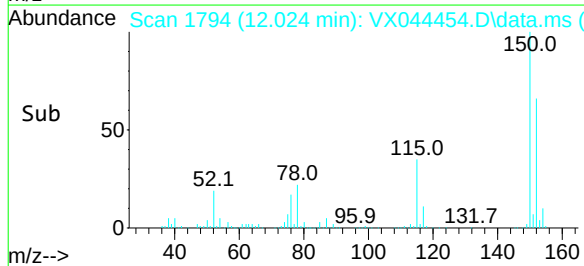
Tgt Ion:152 Resp: 74241

Ion Ratio Lower Upper

152 100

115 59.0 44.5 133.3

150 156.3 0.0 353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044454.D
Acq On : 20 Dec 2024 15:56
Operator : JC/MD
Sample : P5314-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VPB190A-HYD-20241217

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Title : SW846 8260

Signal : TIC: VX044454.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.581	69	81	82	rBV6	15733	43037	6.31%	1.222%
2	5.385	693	705	719	rBV	78560	238400	34.94%	6.770%
3	5.544	721	731	745	rVV2	123962	366826	53.77%	10.417%
4	5.952	789	798	813	rBV	94022	246931	36.19%	7.012%
5	6.757	920	930	944	rBV	207677	496759	72.81%	14.107%
6	8.647	1232	1240	1254	rBV	423507	682276	100.00%	19.375%
7	10.049	1465	1470	1485	rBV	401369	578419	84.78%	16.426%
8	11.079	1634	1639	1652	rBV	302777	407919	59.79%	11.584%
9	12.018	1788	1793	1806	rBV	356618	460799	67.54%	13.086%

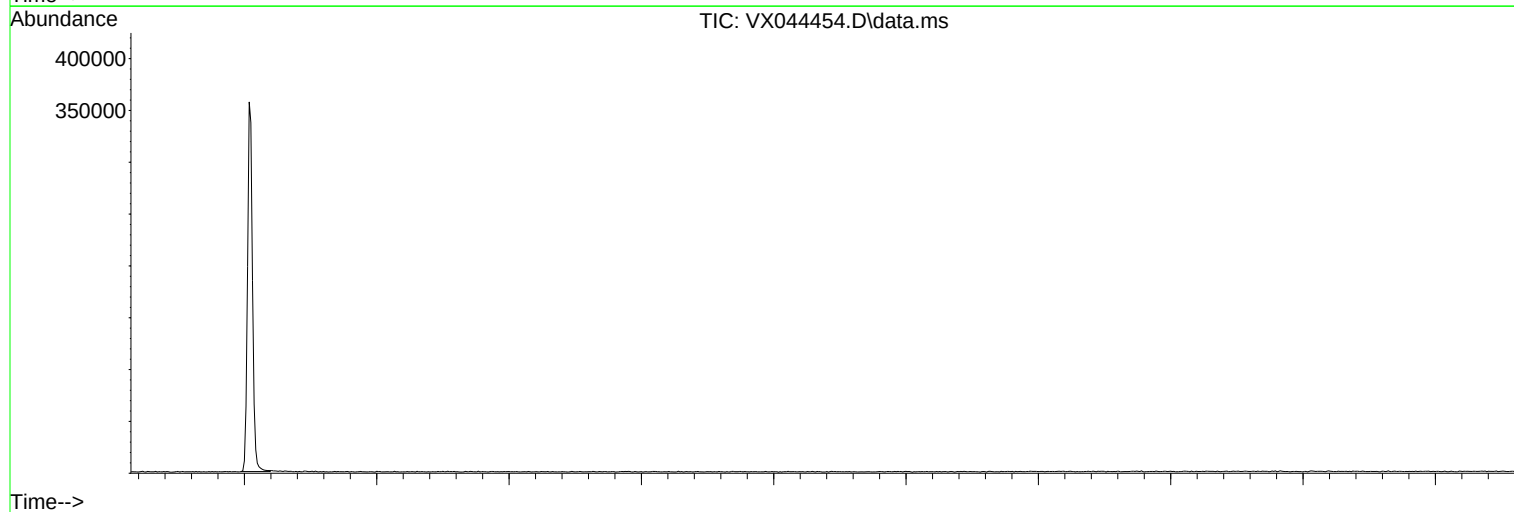
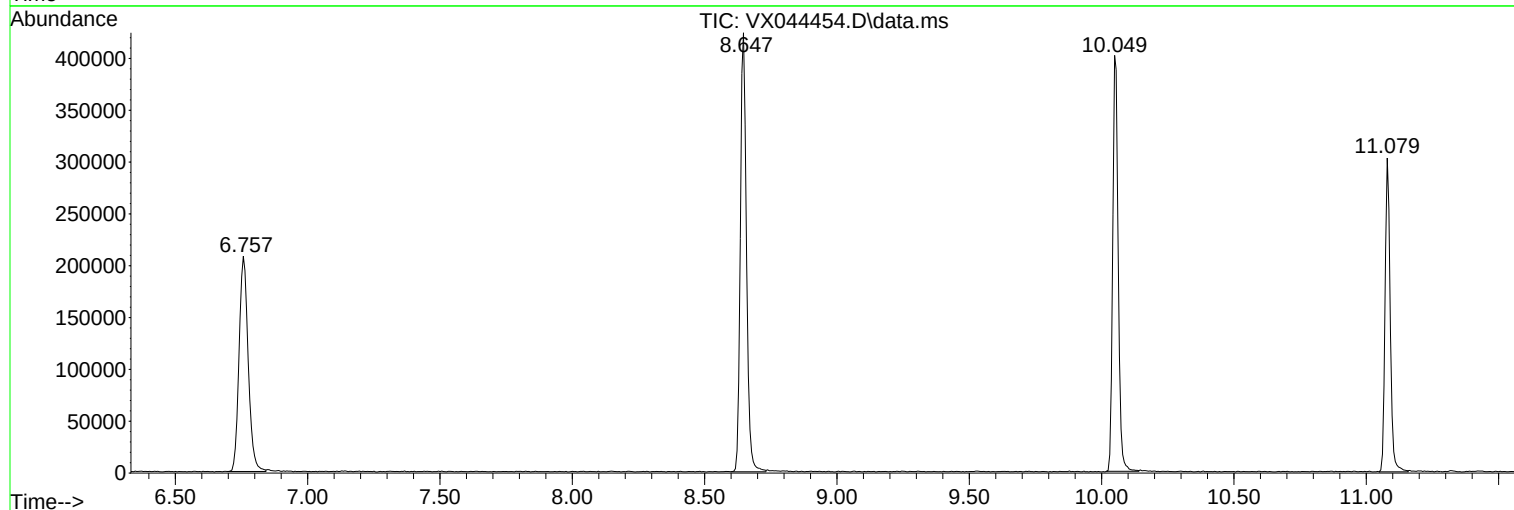
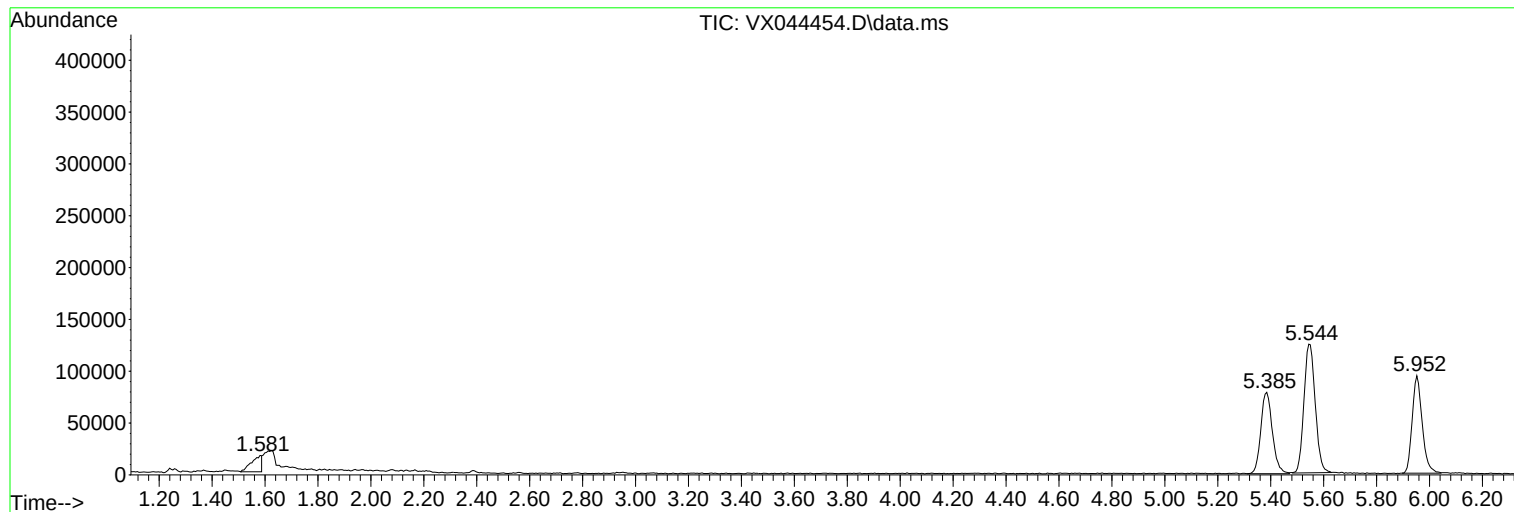
Sum of corrected areas: 3521366

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044454.D
Acq On : 20 Dec 2024 15:56
Operator : JC/MD
Sample : P5314-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VPB190A-HYD-20241217

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044454.D
Acq On : 20 Dec 2024 15:56
Operator : JC/MD
Sample : P5314-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VPB190A-HYD-20241217

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044454.D
Acq On : 20 Dec 2024 15:56
Operator : JC/MD
Sample : P5314-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VPB190A-HYD-20241217

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06
 Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG No.: P5314
 Instrument ID: MSVOA_X Calibration Date(s): 12/11/2024 12/11/2024
 Heated Purge: (Y/N) N Calibration Time(s): 10:41 13:00
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX044219.D		RRF005 = VX044220.D		RRF020 = VX044221.D		RRF050 = VX044222.D		RRF100 = VX044223.D		RRF150 = VX044224.D	
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD					
Chloromethane	0.743	0.747	0.735	0.756	0.715	0.740	0.739	1.8					
Vinyl Chloride	0.805	0.790	0.782	0.786	0.722	0.737	0.770	4.3					
Bromomethane		0.590	0.513	0.551	0.529	0.548	0.546	5.3					
Chloroethane	0.464	0.520	0.515	0.532	0.422	0.426	0.480	10.2					
Trichlorofluoromethane	1.582	1.519	1.514	1.541	1.478	1.414	1.508	3.8					
1,1,2-Trichlorotrifluoroethane	0.633	0.628	0.592	0.615	0.573	0.620	0.610	3.8					
1,1-Dichloroethene	0.512	0.560	0.544	0.596	0.554	0.596	0.560	5.7					
Acetone	0.359	0.353	0.331	0.381	0.348	0.372	0.357	5					
Carbon Disulfide	0.841	0.872	0.937	1.150	1.230	1.362	1.065	20					
Methyl tert-butyl Ether	2.054	2.188	2.127	2.305	2.170	2.279	2.187	4.3					
Methylene Chloride	0.679	0.678	0.666	0.689	0.648	0.668	0.671	2.1					
trans-1,2-Dichloroethene	0.600	0.556	0.577	0.619	0.595	0.626	0.596	4.4					
1,1-Dichloroethane	1.071	1.173	1.154	1.244	1.171	1.218	1.172	5.1					
2-Butanone	0.449	0.491	0.510	0.548	0.509	0.541	0.508	7.1					
Carbon Tetrachloride	0.484	0.443	0.432	0.501	0.502	0.529	0.482	7.8					
cis-1,2-Dichloroethene	0.809	0.737	0.728	0.772	0.731	0.762	0.756	4.1					
Chloroform	1.389	1.312	1.272	1.343	1.272	1.310	1.316	3.4					
1,1,1-Trichloroethane	0.993	1.019	1.077	1.176	1.119	1.173	1.093	7.1					
Methylcyclohexane	0.514	0.503	0.527	0.555	0.550	0.562	0.535	4.5					
Benzene	1.353	1.353	1.332	1.410	1.353	1.353	1.359	1.9					
1,2-Dichloroethane	0.554	0.557	0.545	0.584	0.556	0.564	0.560	2.4					
Trichloroethene	0.356	0.325	0.325	0.349	0.337	0.342	0.339	3.8					
1,2-Dichloropropane	0.368	0.345	0.330	0.357	0.341	0.342	0.347	3.8					
Bromodichloromethane	0.380	0.411	0.436	0.508	0.518	0.538	0.465	13.9					
4-Methyl-2-Pentanone	0.506	0.551	0.547	0.590	0.561	0.582	0.556	5.4					
Toluene	0.908	0.830	0.816	0.877	0.841	0.849	0.853	4					
t-1,3-Dichloropropene	0.338	0.357	0.439	0.514	0.526	0.558	0.455	20.3					
cis-1,3-Dichloropropene	0.404	0.441	0.488	0.567	0.558	0.583	0.507	14.6					
1,1,2-Trichloroethane	0.337	0.332	0.335	0.358	0.334	0.340	0.339	2.8					
2-Hexanone	0.323	0.386	0.408	0.439	0.420	0.438	0.403	10.8					

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06
 Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG No.: P5314
 Instrument ID: MSVOA_X Calibration Date(s): 12/11/2024 12/11/2024
 Heated Purge: (Y/N) N Calibration Time(s): 10:41 13:00
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX044219.D		RRF005 = VX044220.D		RRF020 = VX044221.D			
		RRF050 = VX044222.D		RRF100 = VX044223.D		RRF150 = VX044224.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dibromochloromethane	0.254	0.248	0.306	0.370	0.378	0.398	0.326	20.2	
Tetrachloroethene	0.359	0.354	0.317	0.321	0.312	0.327	0.332	6	
Chlorobenzene	1.130	1.068	1.039	1.088	1.036	1.067	1.071	3.3	
Ethyl Benzene	1.853	1.806	1.816	1.927	1.831	1.875	1.851	2.4	
m/p-Xylenes	0.653	0.660	0.665	0.707	0.683	0.707	0.679	3.5	
o-Xylene	0.686	0.683	0.685	0.703	0.671	0.697	0.687	1.6	
Styrene	1.007	1.019	1.099	1.162	1.148	1.177	1.102	6.7	
Bromoform	0.137	0.173	0.194	0.247	0.269	0.297	0.219	28	
Isopropylbenzene	3.665	3.976	3.920	3.912	3.747	3.747	3.828	3.2	
1,1,2,2-Tetrachloroethane	1.410	1.350	1.332	1.336	1.256	1.293	1.329	3.9	
1,3-Dichlorobenzene	1.519	1.634	1.640	1.683	1.625	1.628	1.621	3.3	
1,4-Dichlorobenzene	1.811	1.640	1.632	1.672	1.621	1.623	1.667	4.4	
1,2-Dichlorobenzene	1.745	1.666	1.668	1.726	1.654	1.643	1.684	2.5	
1,2-Dichloroethane-d4		0.934	0.778	0.921	0.862	0.888	0.877	7.1	
Dibromofluoromethane		0.353	0.298	0.367	0.360	0.354	0.346	8	
Toluene-d8		1.148	1.010	1.251	1.229	1.203	1.168	8.3	
4-Bromofluorobenzene		0.390	0.351	0.442	0.432	0.426	0.408	9.2	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X121124W.M
Title : SW846 8260
Last Update : Thu Dec 12 04:28:14 2024
Response Via : Initial Calibration

Calibration Files

1 =VX044219.D 5 =VX044220.D 20 =VX044221.D 50 =VX044222.D 100 =VX044223.D 150 =VX044224.D

D

Compound		1	5	20	50	100	150	Avg	%RSD

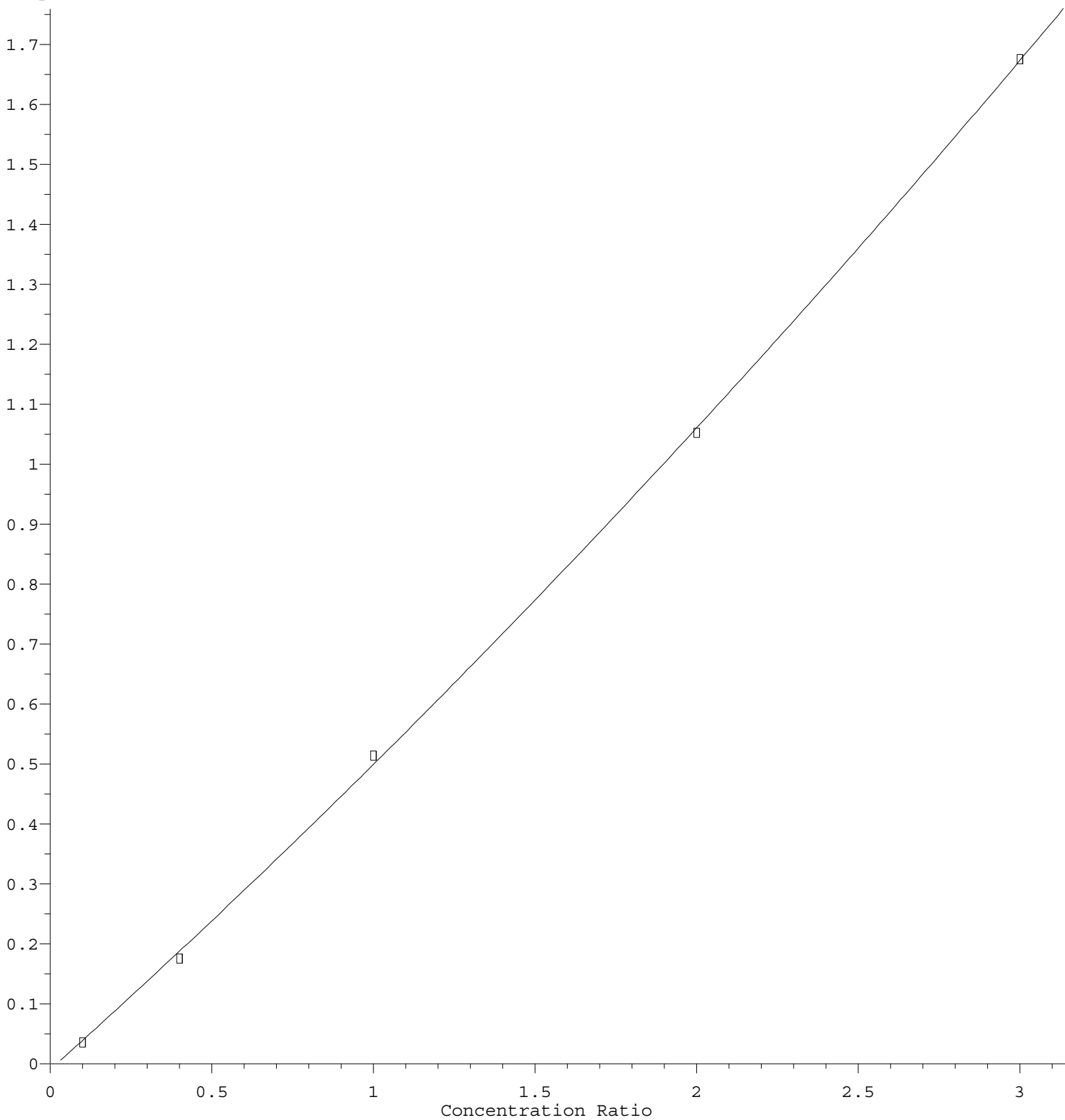
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.877	0.749	0.721	0.788	0.745	0.759	0.773	7.19
3) P	Chloromethane	0.743	0.747	0.735	0.756	0.715	0.740	0.739	1.83
4) C	Vinyl Chloride	0.805	0.790	0.782	0.786	0.722	0.737	0.770	4.31#
5) T	Bromomethane	0.590	0.513	0.551	0.529	0.548	0.546	0.546	5.26
6) T	Chloroethane	0.464	0.520	0.515	0.532	0.422	0.426	0.480	10.21
7) T	Trichlorofluor...	1.582	1.519	1.514	1.541	1.478	1.414	1.508	3.80
8) T	Diethyl Ether	0.582	0.516	0.481	0.513	0.477	0.520	0.515	7.30
9) T	1,1,2-Trichlor...	0.633	0.628	0.592	0.615	0.573	0.620	0.610	3.76
10) T	Methyl Iodide	0.793	0.796	0.847	0.782	0.803	0.804	0.804	3.13
11) T	Tert butyl alc...	0.103	0.111	0.120	0.133	0.151	0.124	0.124	15.38
12) CM	1,1-Dichloroet...	0.512	0.560	0.544	0.596	0.554	0.596	0.560	5.74#
13) T	Acrolein	0.179	0.163	0.185	0.174	0.193	0.179	0.179	6.28
14) T	Allyl chloride	0.899	0.895	0.878	1.010	0.940	0.980	0.933	5.63
15) T	Acrylonitrile	0.319	0.333	0.332	0.358	0.343	0.367	0.342	5.25
16) T	Acetone	0.359	0.353	0.331	0.381	0.348	0.372	0.357	4.99
17) T	Carbon Disulfide	0.841	0.872	0.937	1.150	1.230	1.362	1.065	19.98
18) T	Methyl Acetate	0.965	0.889	0.883	0.953	0.888	0.951	0.922	4.17
19) T	Methyl tert-bu...	2.054	2.188	2.127	2.305	2.170	2.279	2.187	4.28
20) T	Methylene Chlo...	0.679	0.678	0.666	0.689	0.648	0.668	0.671	2.12
21) T	trans-1,2-Dich...	0.600	0.556	0.577	0.619	0.595	0.626	0.596	4.37
22) T	Diisopropyl ether	2.040	2.114	2.092	2.172	2.070	2.123	2.102	2.17
23) T	Vinyl Acetate	1.238	1.571	1.732	1.912	1.842	1.958	1.709	15.75
24) P	1,1-Dichloroet...	1.071	1.173	1.154	1.244	1.171	1.218	1.172	5.10
25) T	2-Butanone	0.449	0.491	0.510	0.548	0.509	0.541	0.508	7.08
26) T	2,2-Dichloropr...	0.782	0.896	0.956	1.045	0.992	1.039	0.952	10.50
27) T	cis-1,2-Dichlo...	0.809	0.737	0.728	0.772	0.731	0.762	0.756	4.11
28) T	Bromochloromet...	0.578	0.577	0.576	0.592	0.556	0.568	0.575	2.07
29) T	Tetrahydrofuran	0.293	0.348	0.321	0.337	0.317	0.340	0.326	6.17
30) C	Chloroform	1.389	1.312	1.272	1.343	1.272	1.310	1.316	3.39#
31) T	Cyclohexane	0.931	0.963	0.977	0.922	0.938	0.946	0.946	2.44
32) T	1,1,1-Trichlor...	0.993	1.019	1.077	1.176	1.119	1.173	1.093	7.06
33) S	1,2-Dichloroet...	0.934	0.778	0.921	0.862	0.888	0.877	0.877	7.09
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.353	0.298	0.367	0.360	0.354	0.346	0.346	7.95
36) T	1,1-Dichloropr...	0.489	0.442	0.422	0.444	0.445	0.444	0.448	4.92
37) T	Ethyl Acetate	0.536	0.512	0.551	0.581	0.565	0.574	0.553	4.68
38) T	Carbon Tetrach...	0.484	0.443	0.432	0.501	0.502	0.529	0.482	7.77
39) T	Methylcyclohexane	0.514	0.503	0.527	0.555	0.550	0.562	0.535	4.52
40) TM	Benzene	1.353	1.353	1.332	1.410	1.353	1.353	1.359	1.93
41) T	Methacrylonitrile	0.285	0.293	0.281	0.302	0.298	0.305	0.294	3.21
42) TM	1,2-Dichloroet...	0.554	0.557	0.545	0.584	0.556	0.564	0.560	2.37
43) T	Isopropyl Acetate	0.736	0.854	0.835	0.916	0.908	0.941	0.865	8.62
44) TM	Trichloroethene	0.356	0.325	0.324	0.349	0.337	0.342	0.339	3.79
45) C	1,2-Dichloropr...	0.368	0.345	0.330	0.357	0.341	0.342	0.347	3.81#
46) T	Dibromomethane	0.247	0.267	0.259	0.286	0.276	0.281	0.269	5.53
47) T	Bromodichlorom...	0.380	0.411	0.436	0.508	0.518	0.538	0.465	13.95
48) T	Methyl methacr...	0.427	0.370	0.399	0.444	0.431	0.447	0.420	7.03
49) T	1,4-Dioxane	0.005	0.007	0.007	0.008	0.008	0.008	0.007	15.81
50) S	Toluene-d8	1.148	1.010	1.251	1.229	1.203	1.168	1.168	8.27
51) T	4-Methyl-2-Pen...	0.506	0.551	0.547	0.590	0.561	0.582	0.556	5.37
52) CM	Toluene	0.908	0.830	0.816	0.877	0.841	0.849	0.853	3.96#
53) T	t-1,3-Dichloro...	0.338	0.357	0.439	0.514	0.526	0.558	0.455	20.32
54) T	cis-1,3-Dichlo...	0.404	0.441	0.488	0.567	0.558	0.583	0.507	14.59
55) T	1,1,2-Trichlor...	0.337	0.332	0.335	0.358	0.334	0.340	0.339	2.79

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\										
Method File : 82X121124W.M										
56)	T	Ethyl methacry...	0.491	0.458	0.517	0.577	0.575	0.593	0.535	10.23
57)	T	1,3-Dichloropr...	0.578	0.593	0.585	0.613	0.583	0.590	0.590	2.09
58)	T	2-Chloroethyl ...	0.222	0.268	0.256	0.293	0.285	0.296	0.270	10.47
59)	T	2-Hexanone	0.323	0.386	0.408	0.439	0.420	0.438	0.403	10.82
60)	T	Dibromochlorom...	0.254	0.248	0.306	0.370	0.378	0.398	0.326	20.17
61)	T	1,2-Dibromoethane	0.303	0.322	0.344	0.369	0.364	0.370	0.345	8.06
62)	S	4-Bromofluorob...	0.390	0.351	0.442	0.432	0.426	0.408		9.23
-----ISTD-----										
63)	I	Chlorobenzene-d5								
64)	T	Tetrachloroethene	0.359	0.354	0.317	0.321	0.312	0.327	0.332	5.96
65)	PM	Chlorobenzene	1.130	1.068	1.039	1.088	1.036	1.067	1.071	3.27
66)	T	1,1,1,2-Tetrac...	0.301	0.305	0.334	0.375	0.368	0.383	0.344	10.47
67)	C	Ethyl Benzene	1.853	1.806	1.816	1.927	1.831	1.875	1.851	2.42#
68)	T	m/p-Xylenes	0.653	0.660	0.665	0.707	0.683	0.707	0.679	3.50
69)	T	o-Xylene	0.686	0.683	0.685	0.703	0.671	0.697	0.687	1.64
70)	T	Styrene	1.007	1.019	1.099	1.162	1.148	1.177	1.102	6.70
71)	P	Bromoform	0.137	0.173	0.194	0.247	0.269	0.297	0.219	28.02
-----ISTD-----										
72)	I	1,4-Dichlorobenzen...								
73)	T	Isopropylbenzene	3.665	3.976	3.920	3.912	3.747	3.747	3.828	3.25
74)	T	N-amyl acetate	1.435	1.620	1.773	1.916	1.901	1.967	1.769	11.64
75)	P	1,1,2,2-Tetrac...	1.410	1.350	1.332	1.336	1.256	1.293	1.329	3.93
76)	T	1,2,3-Trichlor...	1.272	1.075	1.113	1.124	1.059	1.055	1.116	7.30
77)	T	Bromobenzene	1.009	0.934	0.890	0.942	0.899	0.895	0.928	4.87
78)	T	n-propylbenzene	3.739	4.263	4.319	4.502	4.283	4.277	4.231	6.06
79)	T	2-Chlorotoluene	2.940	2.847	2.707	2.771	2.582	2.569	2.736	5.36
80)	T	1,3,5-Trimethyl...	3.066	3.222	3.224	3.308	3.097	3.128	3.174	2.90
81)	T	trans-1,4-Dich...	0.236	0.300	0.369	0.402	0.430	0.347		22.67
82)	T	4-Chlorotoluene	2.964	3.051	3.013	3.114	3.011	3.026	3.030	1.65
83)	T	tert-Butylbenzene	3.170	3.077	3.105	3.259	3.106	3.106	3.137	2.14
84)	T	1,2,4-Trimethyl...	2.699	3.254	3.207	3.290	3.148	3.105	3.117	6.92
85)	T	sec-Butylbenzene	3.679	3.748	3.840	3.986	3.804	3.793	3.808	2.70
86)	T	p-Isopropyltol...	2.949	3.061	3.254	3.347	3.197	3.211	3.170	4.49
87)	T	1,3-Dichlorobe...	1.519	1.634	1.640	1.683	1.625	1.628	1.621	3.35
88)	T	1,4-Dichlorobe...	1.811	1.640	1.632	1.672	1.621	1.623	1.667	4.39
89)	T	n-Butylbenzene	2.249	2.387	2.659	2.844	2.889	2.964	2.665	10.90
90)	T	Hexachloroethane	0.358	0.396	0.406	0.507	0.542	0.567	0.463	18.85
91)	T	1,2-Dichlorobe...	1.745	1.666	1.668	1.726	1.654	1.643	1.683	2.46
92)	T	1,2-Dibromo-3-...	0.222	0.226	0.241	0.273	0.279	0.306	0.258	13.01
93)	T	1,2,4-Trichlor...	0.770	0.827	0.891	0.978	1.013	1.058	0.923	12.16
94)	T	Hexachlorobuta...	0.390	0.349	0.367	0.369	0.371	0.381	0.371	3.75
95)	T	Naphthalene	2.925	3.346	3.629	3.835	3.866	4.015	3.603	11.24
96)	T	1,2,3-Trichlor...	0.854	0.885	0.984	1.019	1.055	1.077	0.979	9.30

(#) = Out of Range

t-1,3-Dichloropropene

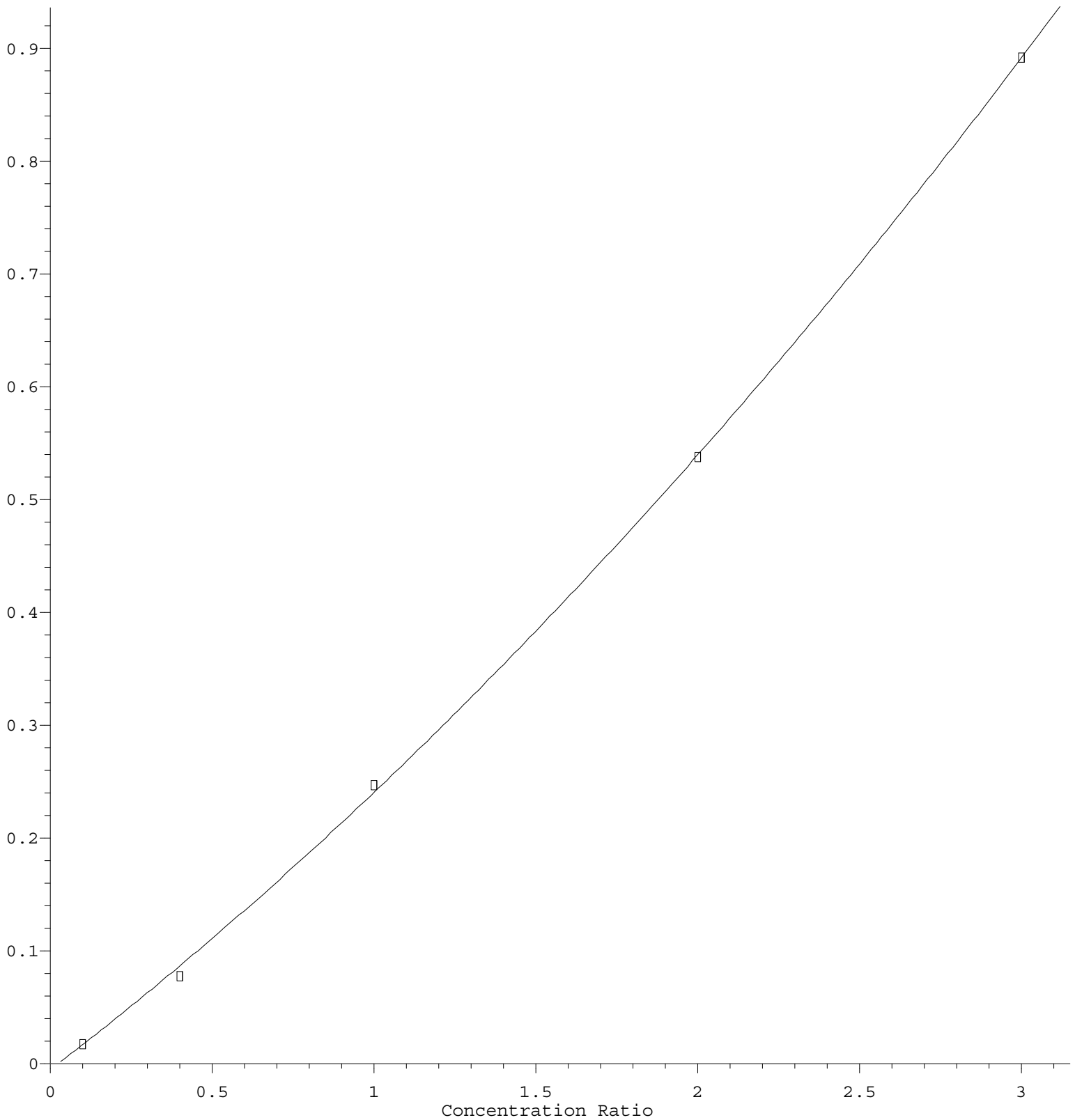
Response Ratio



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Bromoform

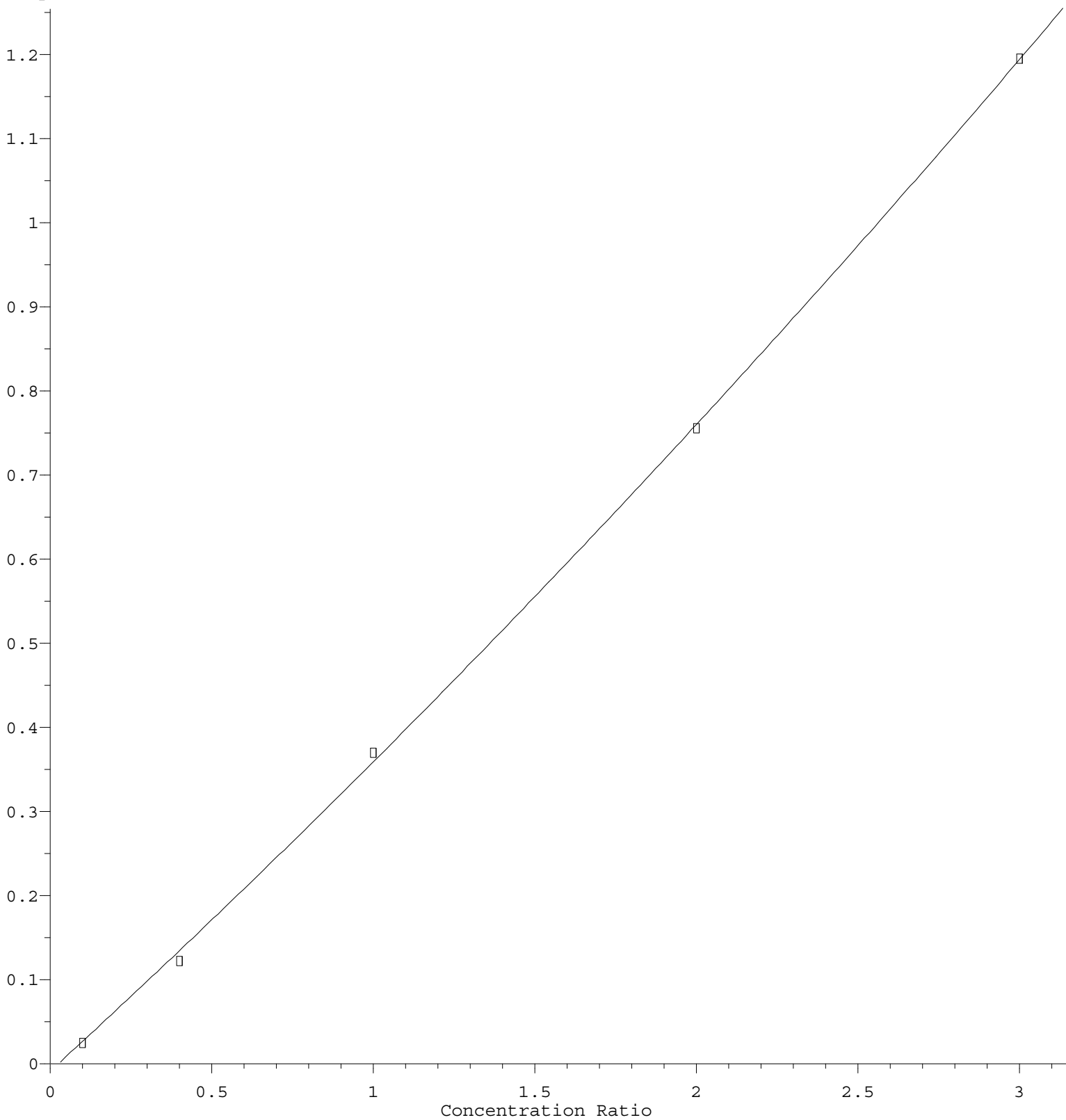
Response Ratio



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Dibromochloromethane

Response Ratio



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044219.D
 Acq On : 11 Dec 2024 10:41
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Quant Time: Dec 12 04:12:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:11:59 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
 Supervised By :Mahesh Dadoda 12/12/2024

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

Internal Standards						
1) Pentafluorobenzene	5.543	168	141947	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	253574	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	213862	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	88334	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount	50.000	Range	74 - 125	Recovery	=	0.000%#
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount	50.000	Range	75 - 124	Recovery	=	0.000%#
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount	50.000	Range	86 - 113	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount	50.000	Range	77 - 121	Recovery	=	0.000%#
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	2491	1.135	ug/l	98
3) Chloromethane	1.300	50	2109	1.005	ug/l	98
4) Vinyl Chloride	1.373	62	2285	1.045	ug/l #	85
6) Chloroethane	1.672	64	1316m	0.967	ug/l	
7) Trichlorofluoromethane	1.867	101	4491	1.049	ug/l	96
8) Diethyl Ether	2.129	74	1651	1.130	ug/l	78
9) 1,1,2-Trichlorotrifluo...	2.318	101	1796	1.037	ug/l	95
12) 1,1-Dichloroethene	2.306	96	1454	0.914	ug/l	90
14) Allyl chloride	2.660	41	2551	0.963	ug/l #	91
15) Acrylonitrile	3.068	53	4528	4.660	ug/l	98
16) Acetone	2.385	43	5096	5.022	ug/l	97
17) Carbon Disulfide	2.501	76	2387	0.789	ug/l	99
18) Methyl Acetate	2.702	43	2739	1.047	ug/l #	86
19) Methyl tert-butyl Ether	3.117	73	5832	0.939	ug/l #	91
20) Methylene Chloride	2.776	84	1928	1.012	ug/l #	74
21) trans-1,2-Dichloroethene	3.080	96	1703	1.007	ug/l #	79
22) Diisopropyl ether	3.763	45	5792	0.971	ug/l #	83
23) Vinyl Acetate	3.733	43	17578	3.623	ug/l	100
24) 1,1-Dichloroethane	3.605	63	3040	0.914	ug/l	96
25) 2-Butanone	4.586	43	6380	4.423	ug/l	96
26) 2,2-Dichloropropane	4.464	77	2220	0.821	ug/l	85
27) cis-1,2-Dichloroethene	4.489	96	2296	1.069	ug/l	81
28) Bromochloromethane	4.909	49	1641	1.006	ug/l #	72
29) Tetrahydrofuran	5.025	42	4158	4.491	ug/l #	84
30) Chloroform	5.086	83	3943	1.055	ug/l	91
32) 1,1,1-Trichloroethane	5.379	97	2818	0.908	ug/l #	48
36) 1,1-Dichloropropene	5.696	75	2479m	1.092	ug/l	
37) Ethyl Acetate	4.727	43	2718	0.969	ug/l #	71
38) Carbon Tetrachloride	5.678	117	2454	1.004	ug/l #	73
39) Methylcyclohexane	7.366	83	2606	0.960	ug/l	93
40) Benzene	6.037	78	6864	0.996	ug/l	92
41) Methacrylonitrile	4.946	41	1447m	0.971	ug/l	
42) 1,2-Dichloroethane	6.092	62	2810	0.990	ug/l	93
43) Isopropyl Acetate	6.354	43	3734	0.851	ug/l	98
44) Trichloroethene	7.122	130	1806	1.051	ug/l	71
45) 1,2-Dichloropropane	7.433	63	1865	1.059	ug/l #	74

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044219.D
 Acq On : 11 Dec 2024 10:41
 Operator : JC/MD
 Sample : VSTDIC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC001

Manual Integrations APPROVED

Reviewed By : John Carlone 12/12/2024
 Supervised By : Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:12:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:11:59 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	7.592	93	1251	0.916	ug/l	97
47) Bromodichloromethane	7.830	83	1926	0.816	ug/l #	74
48) Methyl methacrylate	7.720	41	2168	1.018	ug/l #	77
49) 1,4-Dioxane	7.702	88	492m	13.522	ug/l	
51) 4-Methyl-2-Pentanone	8.579	43	12824	4.547	ug/l	95
52) Toluene	8.720	92	4606	1.064	ug/l	92
53) t-1,3-Dichloropropene	8.988	75	1716	1.694	ug/l #	78
54) cis-1,3-Dichloropropene	8.366	75	2048	0.797	ug/l #	75
55) 1,1,2-Trichloroethane	9.159	97	1710	0.994	ug/l #	83
56) Ethyl methacrylate	9.128	69	2490	0.917	ug/l #	85
57) 1,3-Dichloropropane	9.317	76	2929	0.979	ug/l	94
58) 2-Chloroethyl Vinyl ether	8.244	63	5621	4.105	ug/l	96
59) 2-Hexanone	9.439	43	8199	4.017	ug/l	98
60) Dibromochloromethane	9.524	129	1289	1.953	ug/l	97
61) 1,2-Dibromoethane	9.610	107	1535	0.877	ug/l	95
64) Tetrachloroethene	9.274	164	1536	1.082	ug/l	86
65) Chlorobenzene	10.079	112	4835	1.055	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.158	131	1288	0.875	ug/l #	63
67) Ethyl Benzene	10.195	91	7924	1.001	ug/l #	88
68) m/p-Xylenes	10.305	106	5583	1.922	ug/l	98
69) o-Xylene	10.640	106	2933	0.998	ug/l	96
70) Styrene	10.658	104	4306	0.914	ug/l	94
71) Bromoform	10.805	173	584	1.847	ug/l #	72
73) Isopropylbenzene	10.963	105	6474	0.957	ug/l	100
74) N-amyl acetate	10.847	43	2536	0.811	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.219	83	2491	1.061	ug/l	95
76) 1,2,3-Trichloropropane	11.244	75	2248m	1.121	ug/l	
77) Bromobenzene	11.201	156	1783	1.087	ug/l	91
78) n-propylbenzene	11.305	91	6606	0.884	ug/l	86
79) 2-Chlorotoluene	11.366	91	5194	1.075	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	5417	0.966	ug/l	98
82) 4-Chlorotoluene	11.457	91	5236	0.978	ug/l	98
83) tert-Butylbenzene	11.713	119	5601	1.011	ug/l	91
84) 1,2,4-Trimethylbenzene	11.756	105	4769	0.866	ug/l	95
85) sec-Butylbenzene	11.890	105	6500	0.966	ug/l	99
86) p-Isopropyltoluene	12.012	119	5210	0.930	ug/l	93
87) 1,3-Dichlorobenzene	11.975	146	2684	0.937	ug/l	94
88) 1,4-Dichlorobenzene	12.042	146	3200m	1.087	ug/l	
89) n-Butylbenzene	12.335	91	3973	0.844	ug/l	94
90) Hexachloroethane	12.536	117	632	0.773	ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	3082	1.036	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	392	0.860	ug/l	70
93) 1,2,4-Trichlorobenzene	13.591	180	1361	0.835	ug/l	92
94) Hexachlorobutadiene	13.725	225	689	1.051	ug/l	96
95) Naphthalene	13.780	128	5167	0.812	ug/l #	94
96) 1,2,3-Trichlorobenzene	13.963	180	1509	0.873	ug/l	95

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

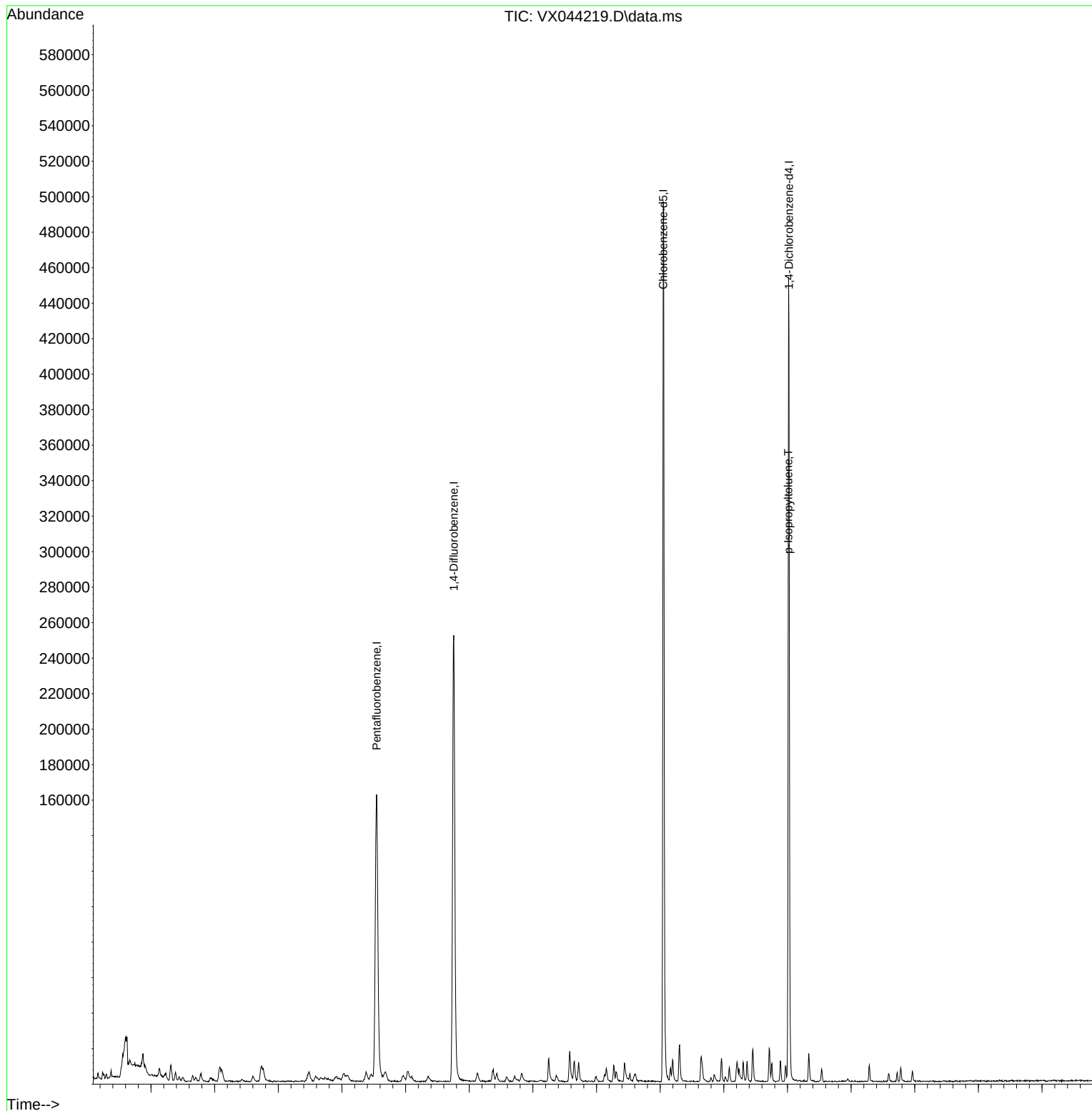
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Data File : VX044219.D
Acq On : 11 Dec 2024 10:41
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

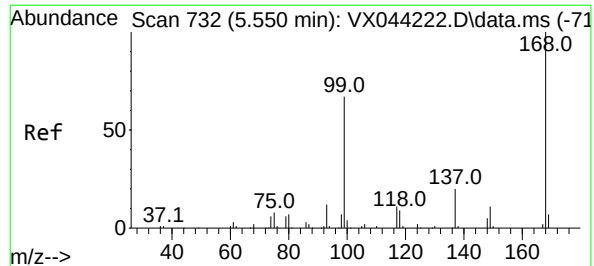
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By : John Carlone 12/12/2024
Supervised By : Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:12:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.543 min Scan# 73

Delta R.T. -0.007 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:168 Resp: 141947

Ion Ratio Lower Upper

168 100

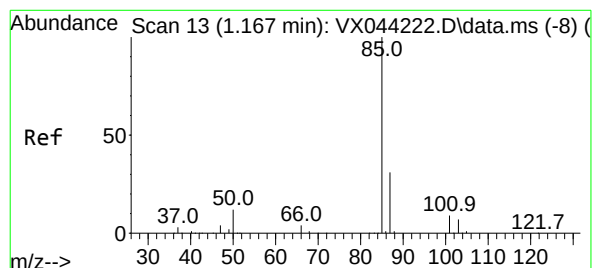
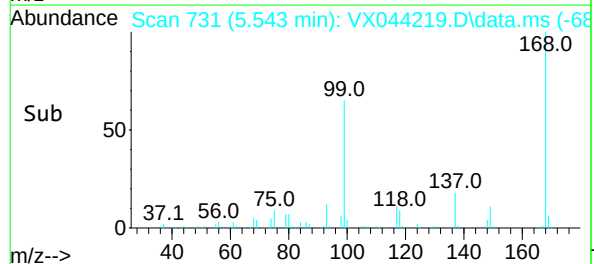
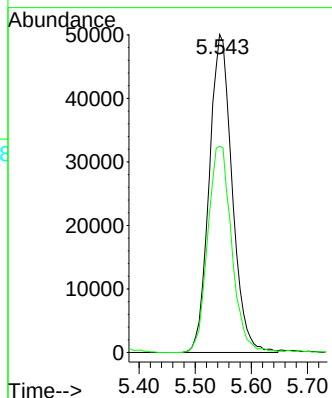
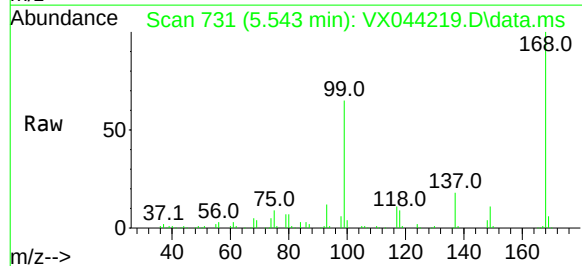
99 64.9 53.4 80.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#2

Dichlorodifluoromethane

Concen: 1.135 ug/l

RT: 1.166 min Scan# 13

Delta R.T. -0.000 min

Lab File: VX044219.D

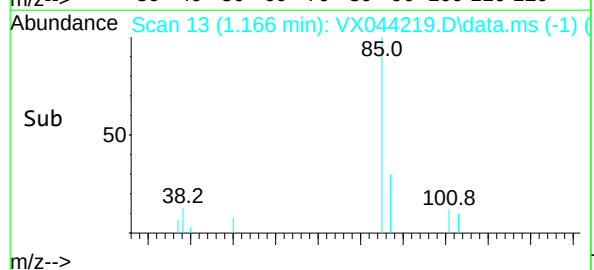
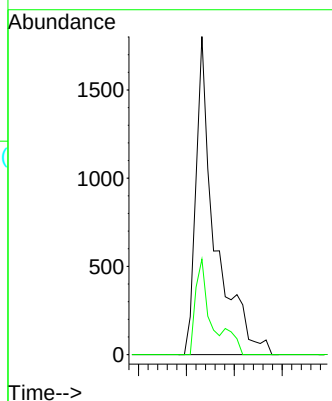
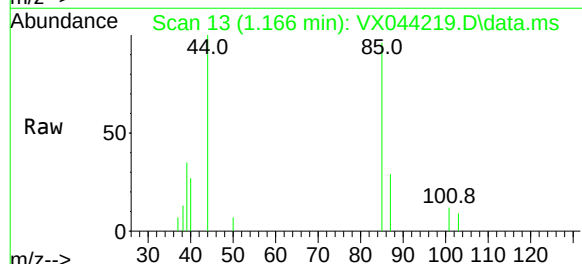
Acq: 11 Dec 2024 10:41

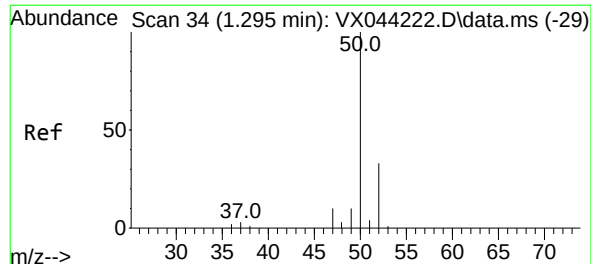
Tgt Ion: 85 Resp: 2491

Ion Ratio Lower Upper

85 100

87 30.0 15.4 46.4





#3

Chloromethane

Concen: 1.005 ug/l

RT: 1.300 min Scan# 35

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 50 Resp: 2109

Ion Ratio Lower Upper

50 100

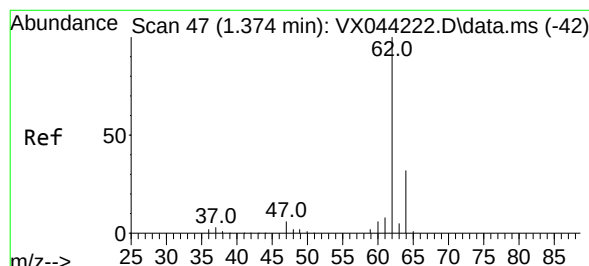
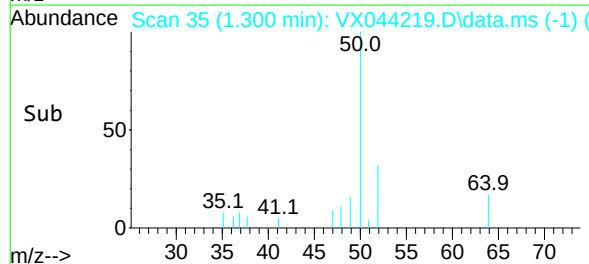
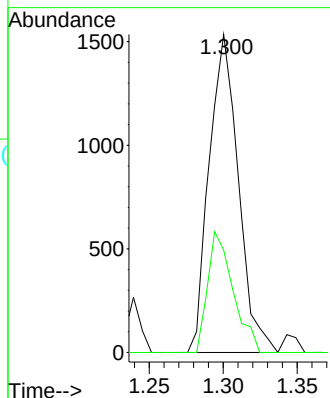
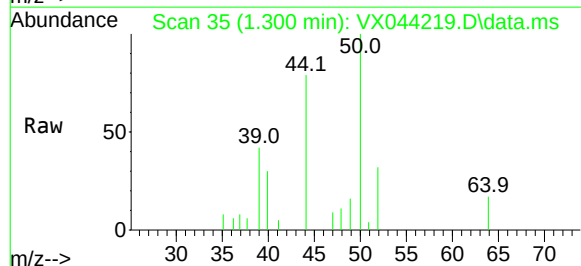
52 32.2 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#4

Vinyl Chloride

Concen: 1.045 ug/l

RT: 1.373 min Scan# 47

Delta R.T. -0.000 min

Lab File: VX044219.D

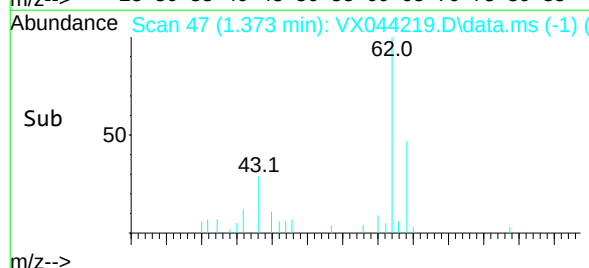
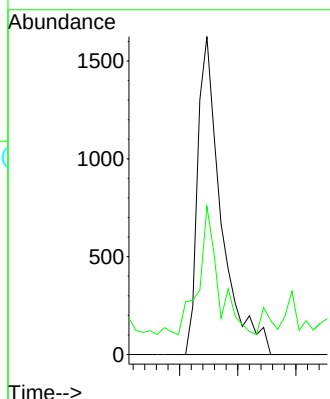
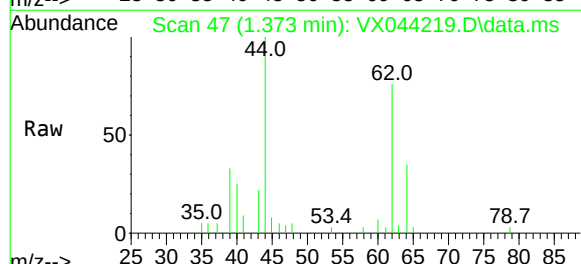
Acq: 11 Dec 2024 10:41

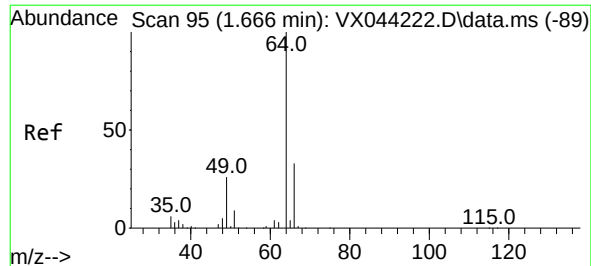
Tgt Ion: 62 Resp: 2285

Ion Ratio Lower Upper

62 100

64 40.3 25.7 38.5#





#6

Chloroethane

Concen: 0.967 ug/l m

RT: 1.672 min Scan# 96

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 64 Resp: 1316

Ion Ratio Lower Upper

64 100

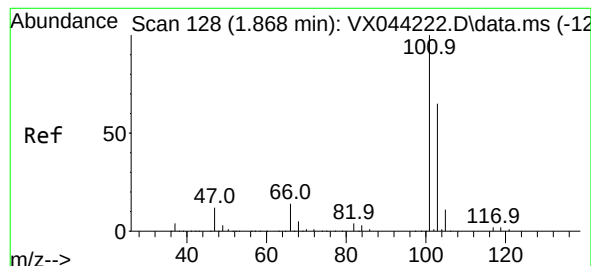
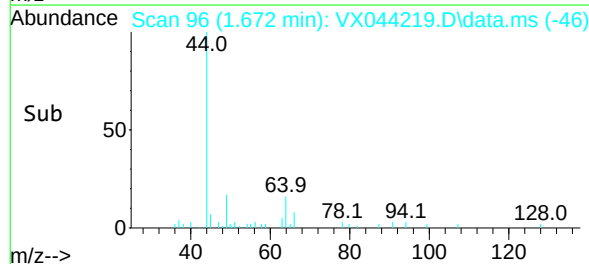
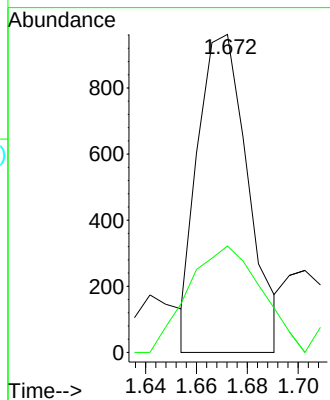
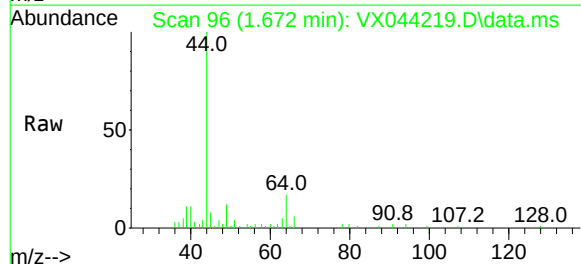
66 33.5 26.6 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#7

Trichlorofluoromethane

Concen: 1.049 ug/l

RT: 1.867 min Scan# 128

Delta R.T. -0.000 min

Lab File: VX044219.D

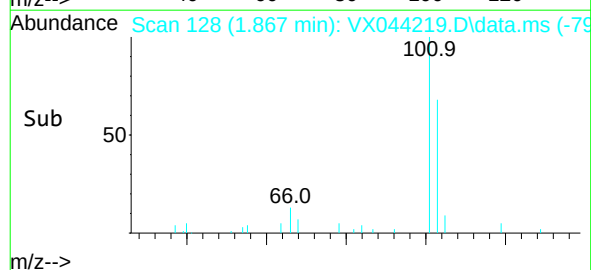
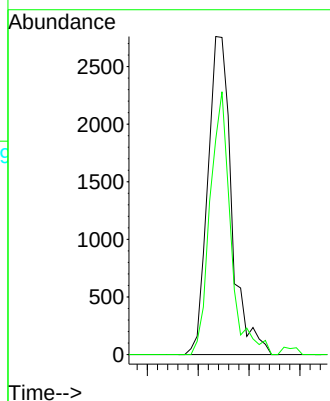
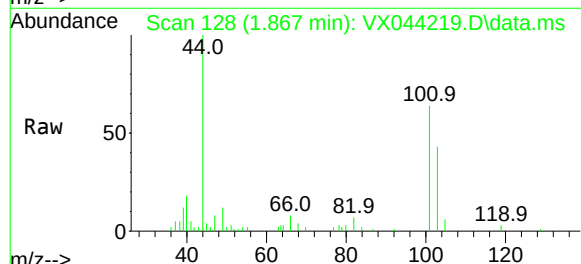
Acq: 11 Dec 2024 10:41

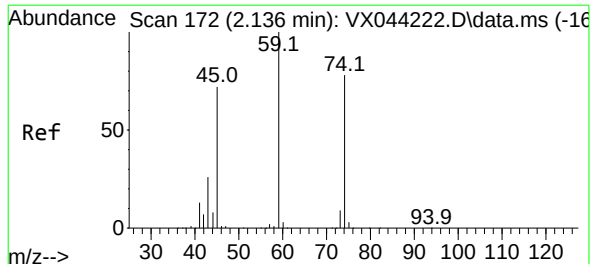
Tgt Ion:101 Resp: 4491

Ion Ratio Lower Upper

101 100

103 67.7 51.8 77.8





#8

Diethyl Ether

Concen: 1.130 ug/l

RT: 2.129 min Scan# 17

Delta R.T. -0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 74 Resp: 1651

Ion Ratio Lower Upper

74 100

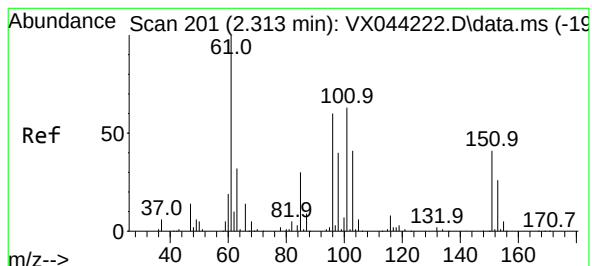
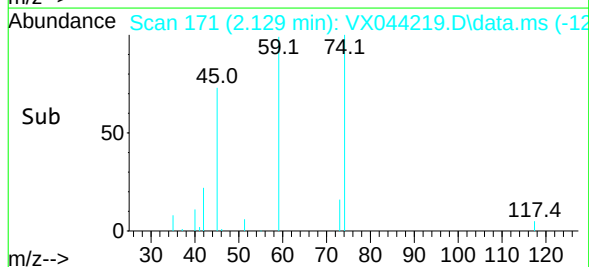
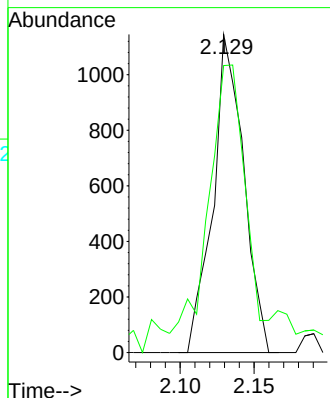
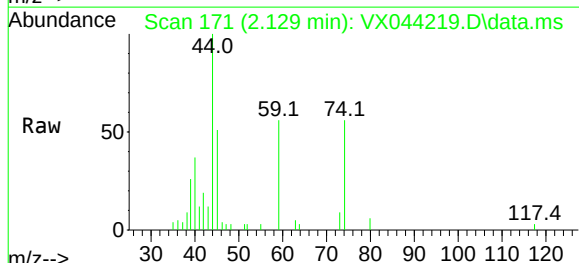
45 118.0 48.4 145.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.037 ug/l

RT: 2.318 min Scan# 202

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

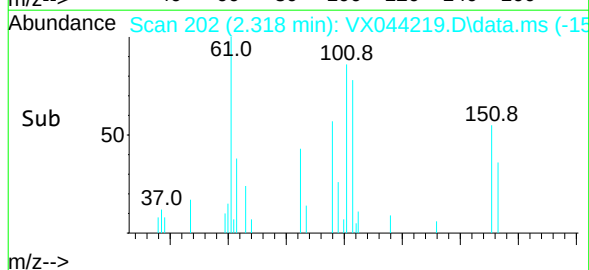
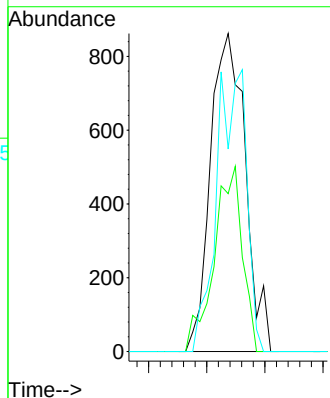
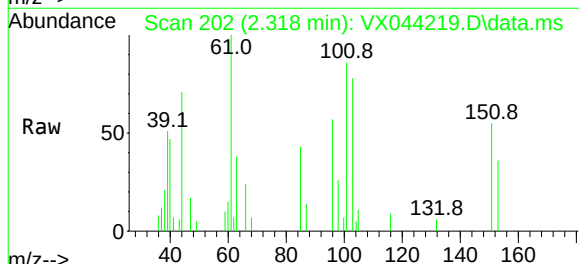
Tgt Ion:101 Resp: 1796

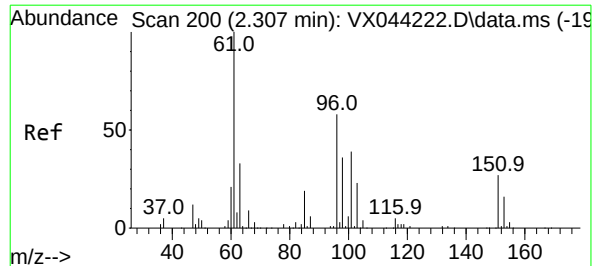
Ion Ratio Lower Upper

101 100

85 47.3 38.5 57.7

151 76.1 55.8 83.6





#12

1,1-Dichloroethene

Concen: 0.914 ug/l

RT: 2.306 min Scan# 20

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 96 Resp: 1454

Ion Ratio Lower Upper

96 100

61 158.9 138.0 207.0

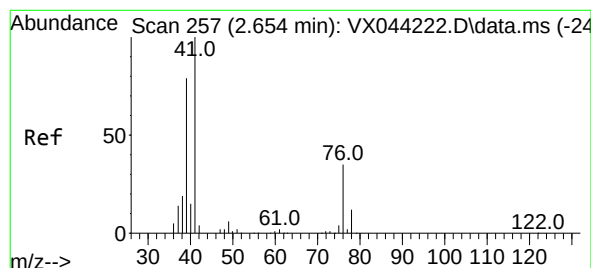
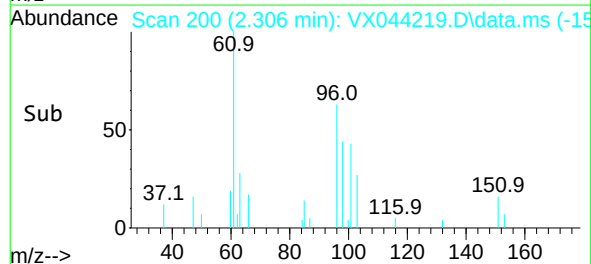
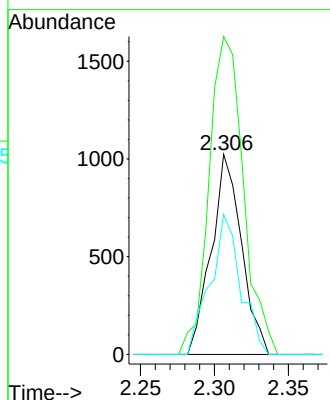
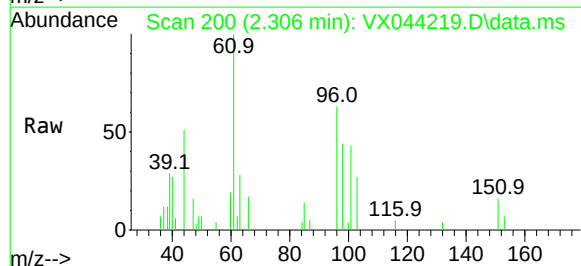
98 70.0 50.0 75.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#14

Allyl chloride

Concen: 0.963 ug/l

RT: 2.660 min Scan# 258

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

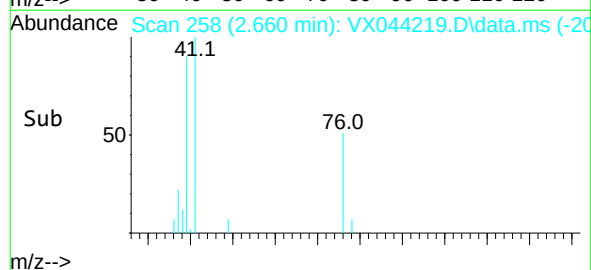
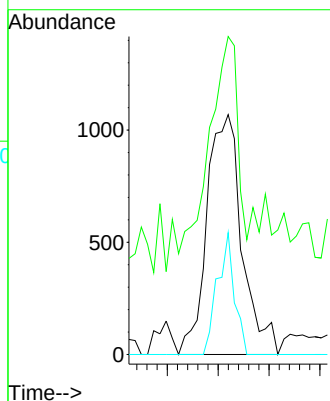
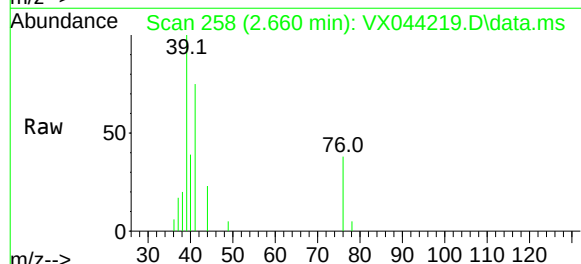
Tgt Ion: 41 Resp: 2551

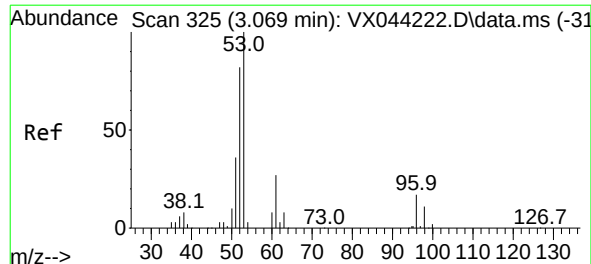
Ion Ratio Lower Upper

41 100

39 72.6 61.9 92.9

76 24.6 27.4 41.2#





#15

Acrylonitrile

Concen: 4.660 ug/l

RT: 3.068 min Scan# 32

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

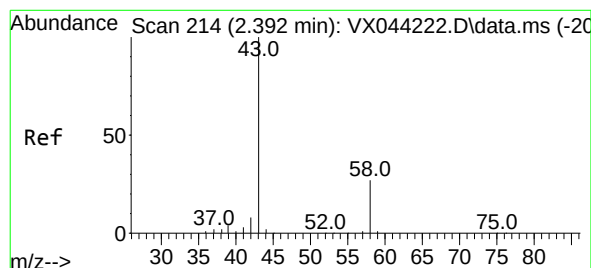
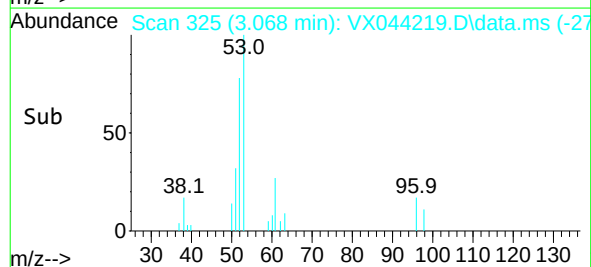
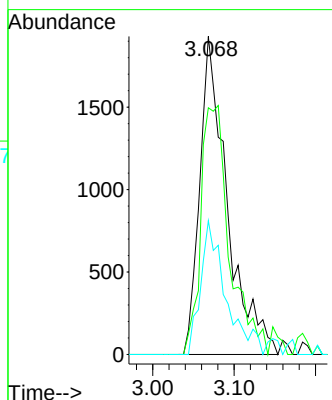
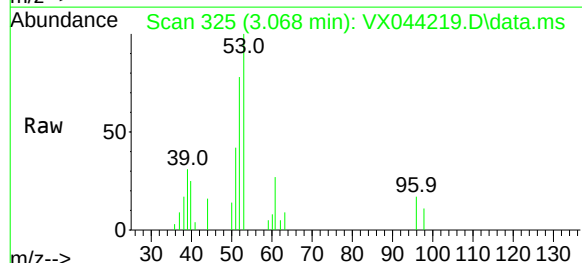
ClientSampleId :

VSTDICC001

Tgt Ion:	53	Resp:	4528
Ion	Ratio	Lower	Upper
53	100		
52	81.4	67.4	101.0
51	38.3	30.3	45.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#16

Acetone

Concen: 5.022 ug/l

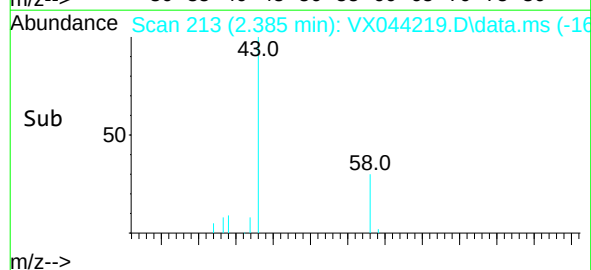
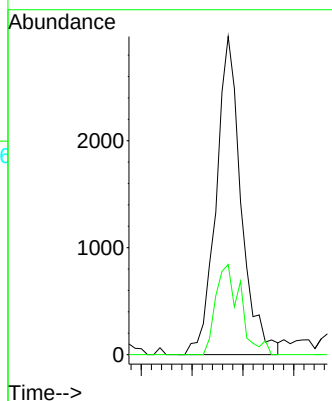
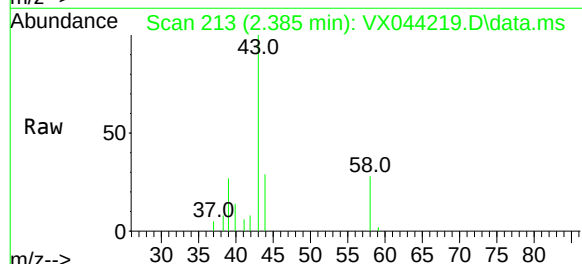
RT: 2.385 min Scan# 213

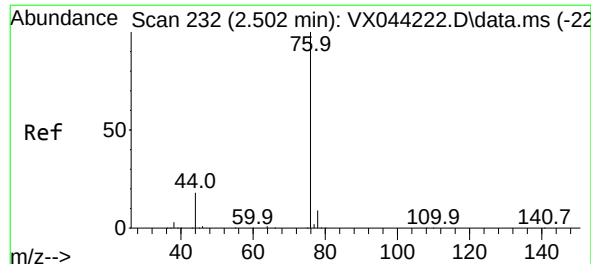
Delta R.T. -0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Tgt Ion:	43	Resp:	5096
Ion	Ratio	Lower	Upper
43	100		
58	28.3	21.6	32.4





#17

Carbon Disulfide

Concen: 0.789 ug/l

RT: 2.501 min Scan# 231

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 76 Resp: 2387

Ion Ratio Lower Upper

76 100

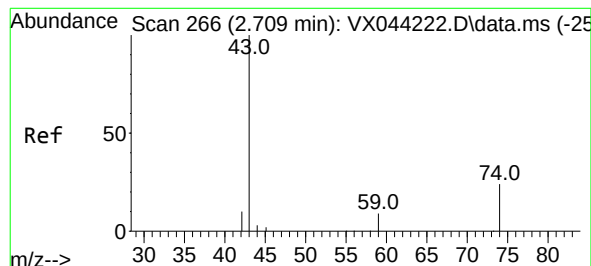
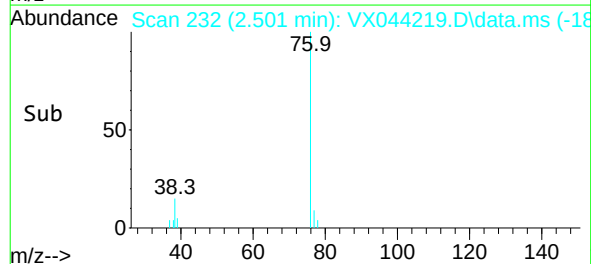
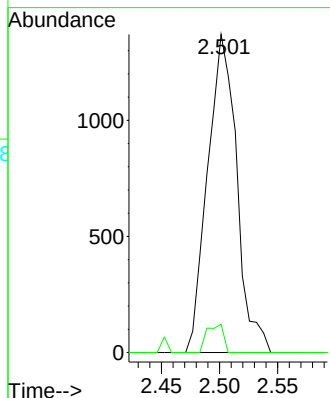
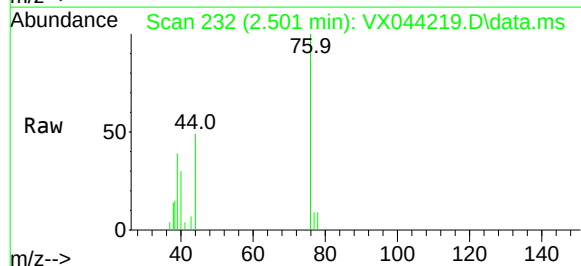
78 8.9 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#18

Methyl Acetate

Concen: 1.047 ug/l

RT: 2.702 min Scan# 265

Delta R.T. -0.006 min

Lab File: VX044219.D

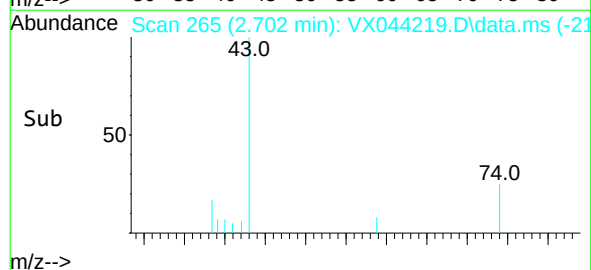
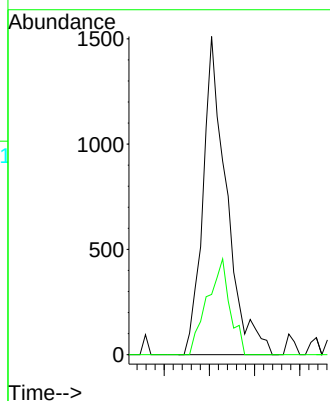
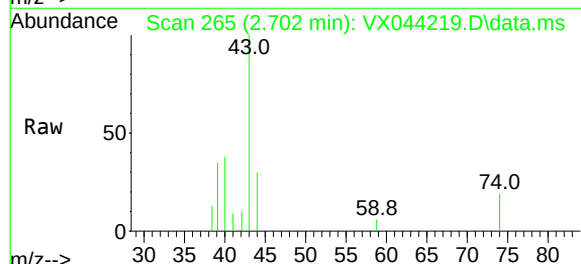
Acq: 11 Dec 2024 10:41

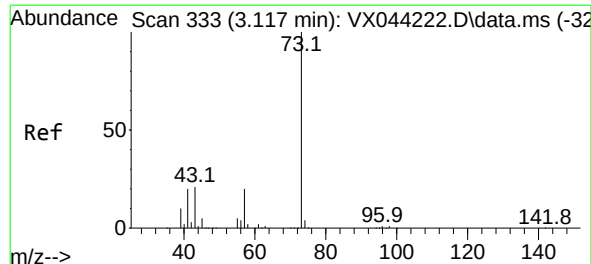
Tgt Ion: 43 Resp: 2739

Ion Ratio Lower Upper

43 100

74 28.9 17.7 26.5#





#19

Methyl tert-butyl Ether

Concen: 0.939 ug/l

RT: 3.117 min Scan# 333

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 73 Resp: 5832

Ion Ratio Lower Upper

73 100

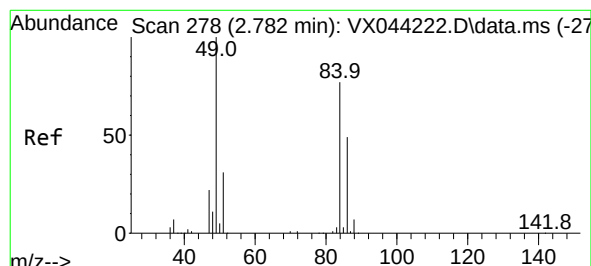
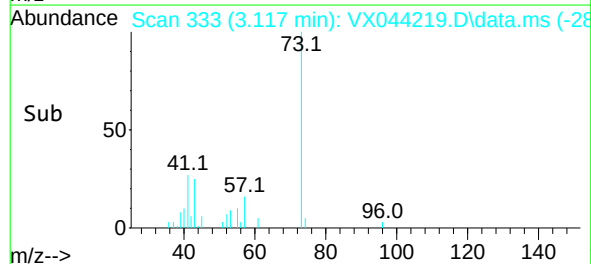
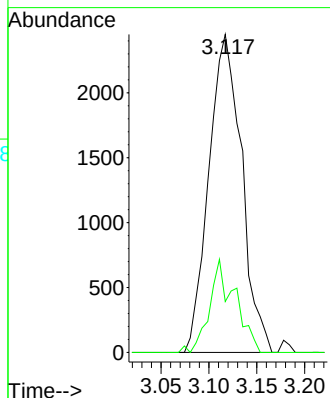
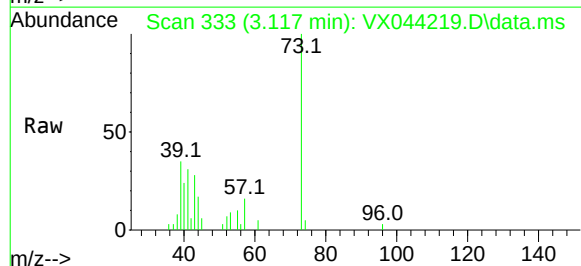
57 16.0 16.2 24.4#

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#20

Methylene Chloride

Concen: 1.012 ug/l

RT: 2.776 min Scan# 277

Delta R.T. -0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Tgt Ion: 84 Resp: 1928

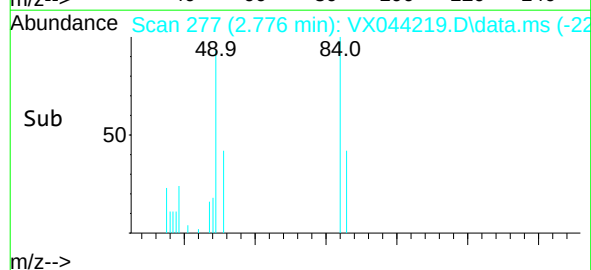
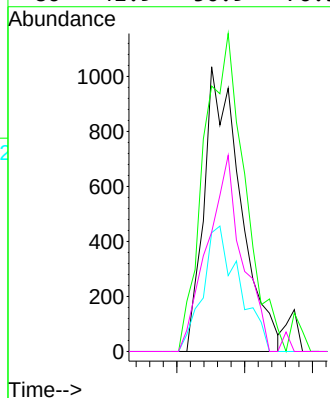
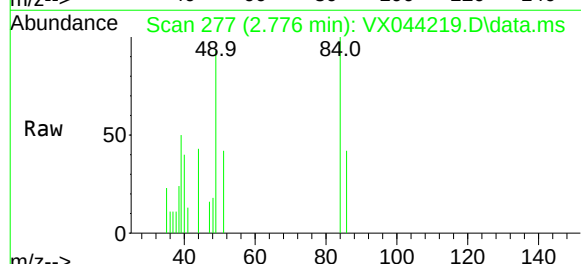
Ion Ratio Lower Upper

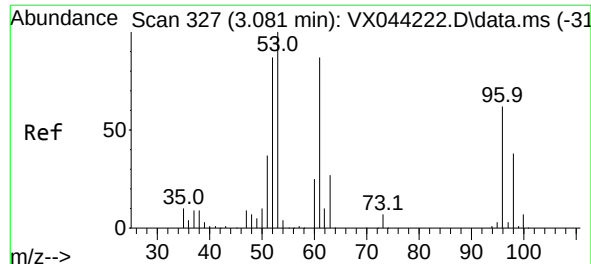
84 100

49 93.2 104.2 156.4#

51 41.7 32.2 48.4

86 41.9 50.9 76.3#





#21

trans-1,2-Dichloroethene

Concen: 1.007 ug/l

RT: 3.080 min Scan# 327

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 96 Resp: 1703

Ion Ratio Lower Upper

96 100

61 108.1 112.0 168.0#

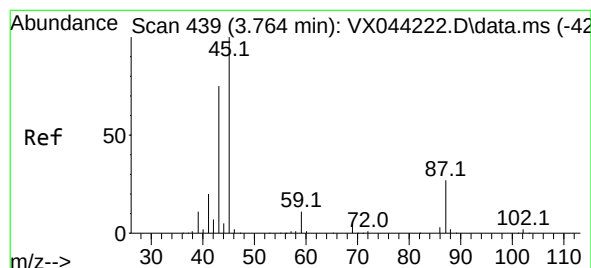
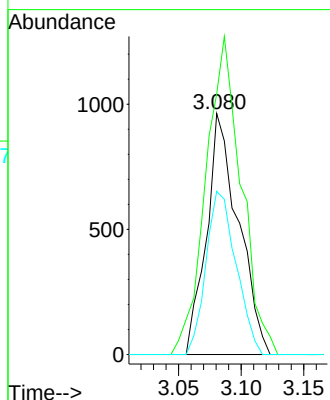
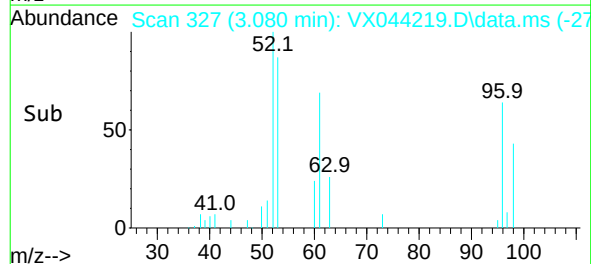
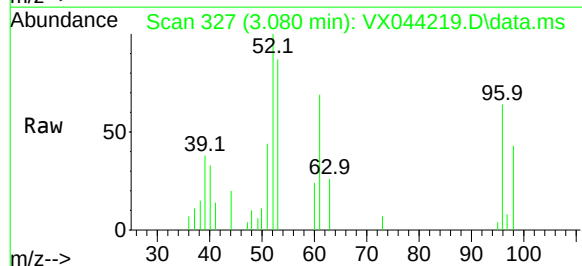
98 67.7 48.8 73.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#22

Diisopropyl ether

Concen: 0.971 ug/l

RT: 3.763 min Scan# 439

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Tgt Ion: 45 Resp: 5792

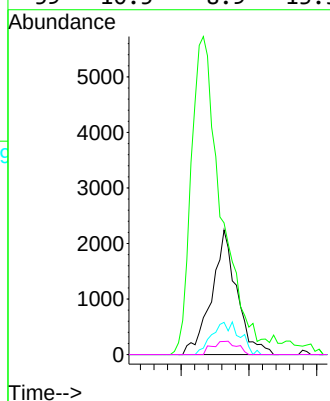
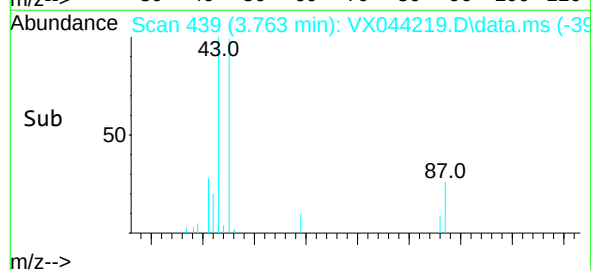
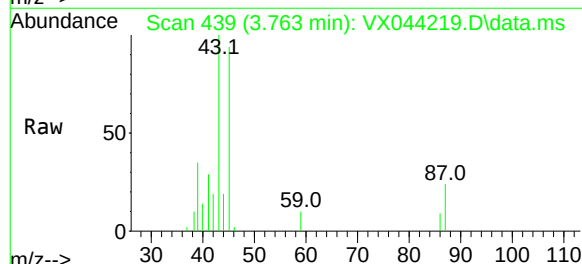
Ion Ratio Lower Upper

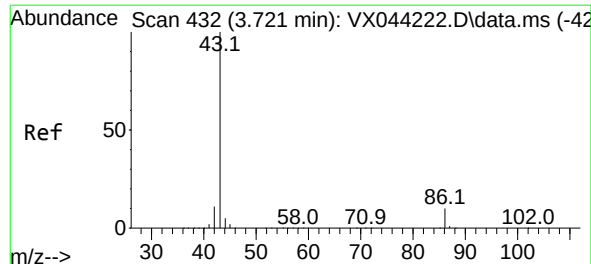
45 100

43 96.8 60.2 90.2#

87 25.9 21.2 31.8

59 10.5 8.9 13.3





#23

Vinyl Acetate

Concen: 3.623 ug/l

RT: 3.733 min Scan# 43

Delta R.T. 0.012 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 17578

Ion Ratio Lower Upper

43 100

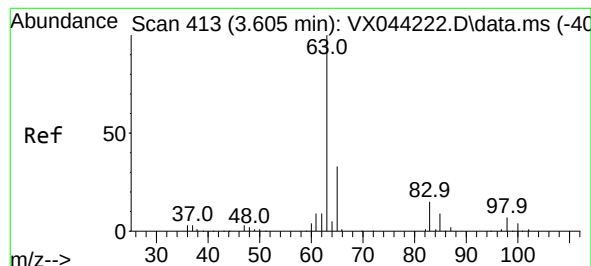
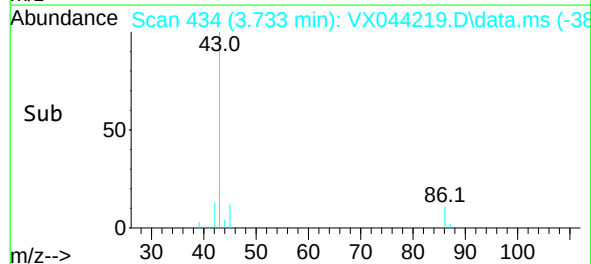
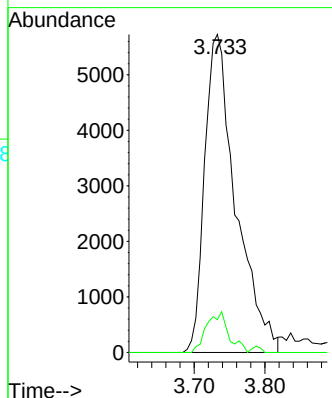
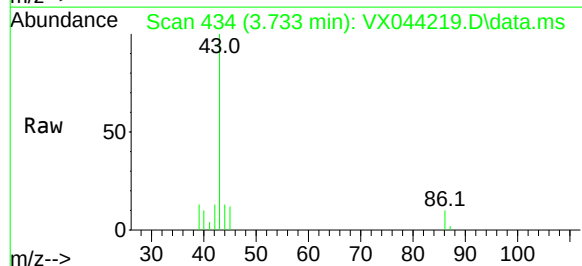
86 10.3 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#24

1,1-Dichloroethane

Concen: 0.914 ug/l

RT: 3.605 min Scan# 413

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

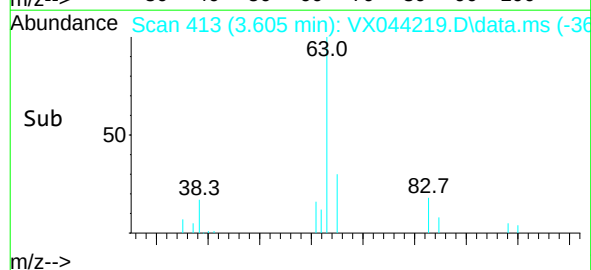
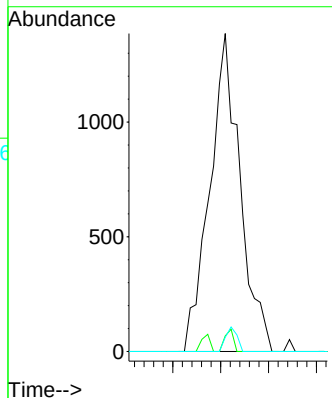
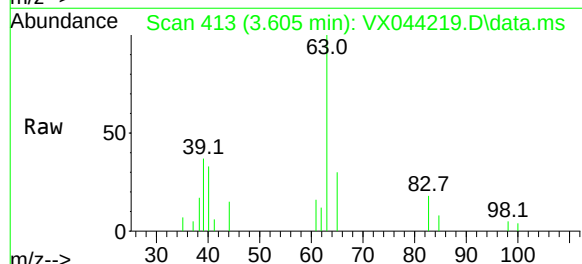
Tgt Ion: 63 Resp: 3040

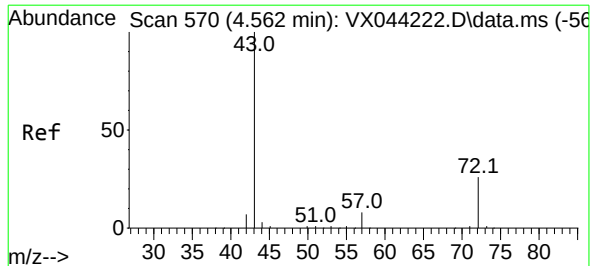
Ion Ratio Lower Upper

63 100

98 4.9 3.6 10.8

100 4.5 2.1 6.3





#25

2-Butanone

Concen: 4.423 ug/l

RT: 4.586 min Scan# 571

Delta R.T. 0.024 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 6380

Ion Ratio Lower Upper

43 100

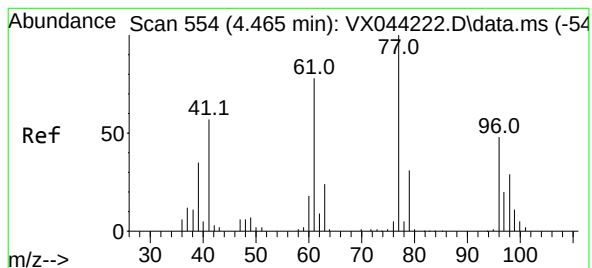
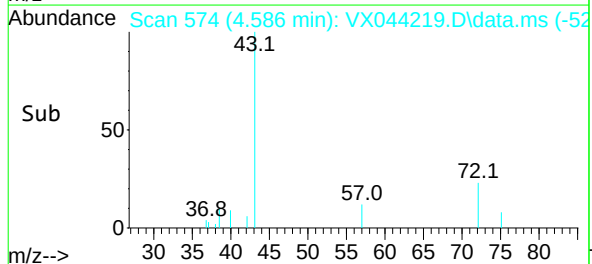
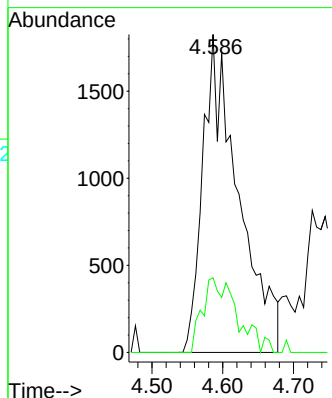
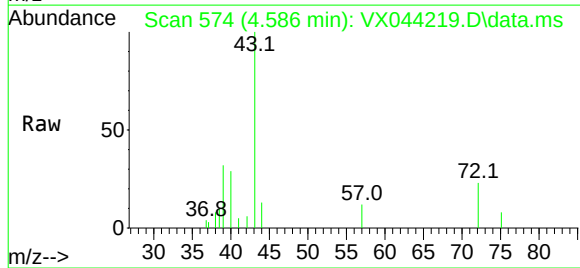
72 23.5 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#26

2,2-Dichloropropane

Concen: 0.821 ug/l

RT: 4.464 min Scan# 554

Delta R.T. -0.000 min

Lab File: VX044219.D

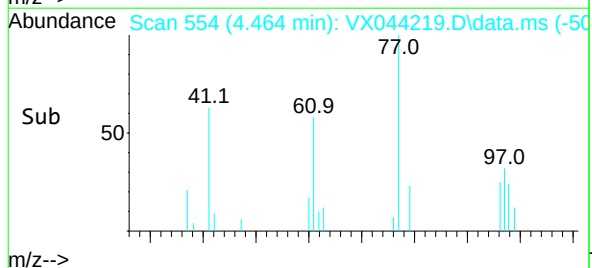
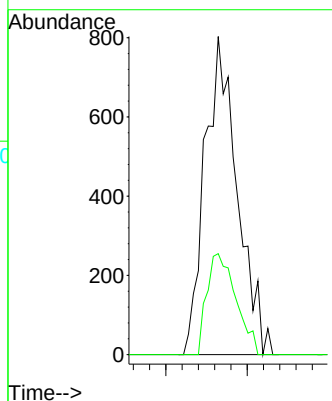
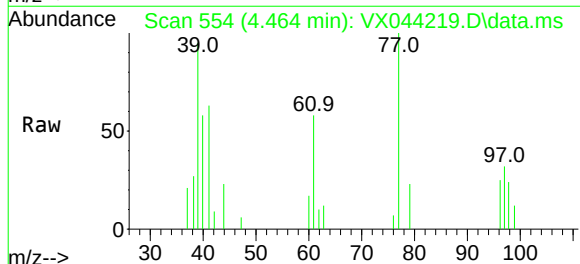
Acq: 11 Dec 2024 10:41

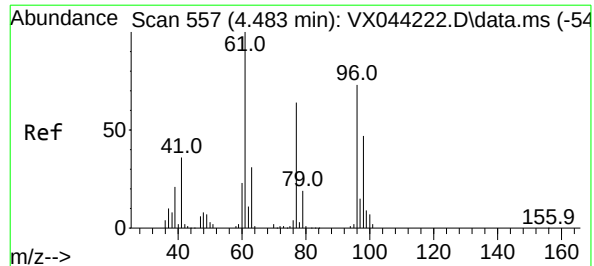
Tgt Ion: 77 Resp: 2220

Ion Ratio Lower Upper

77 100

97 28.4 10.7 32.1





#27

cis-1,2-Dichloroethene

Concen: 1.069 ug/l

RT: 4.489 min Scan# 55

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 96 Resp: 2296

Ion Ratio Lower Upper

96 100

61 122.2 0.0 299.0

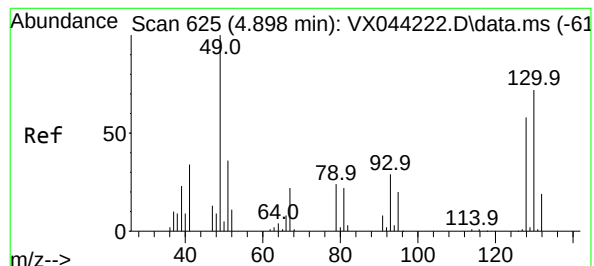
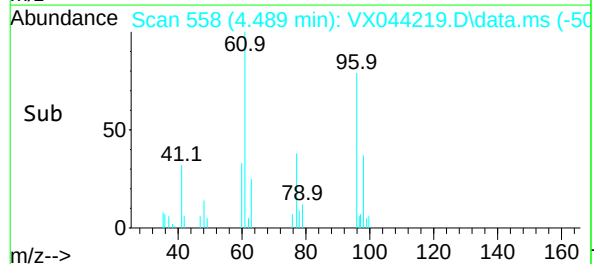
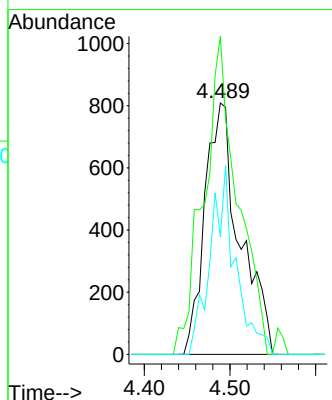
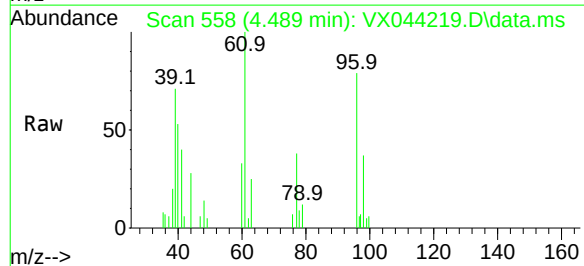
98 54.0 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#28

Bromochloromethane

Concen: 1.006 ug/l

RT: 4.909 min Scan# 627

Delta R.T. 0.012 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

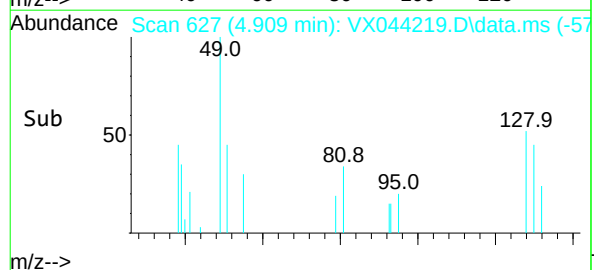
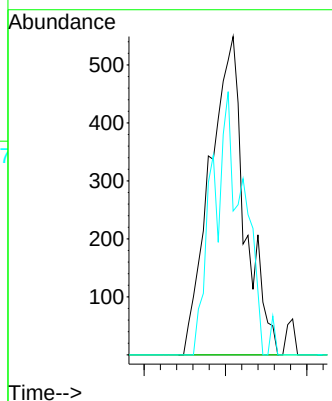
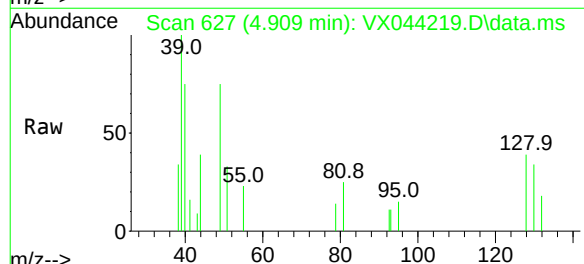
Tgt Ion: 49 Resp: 1641

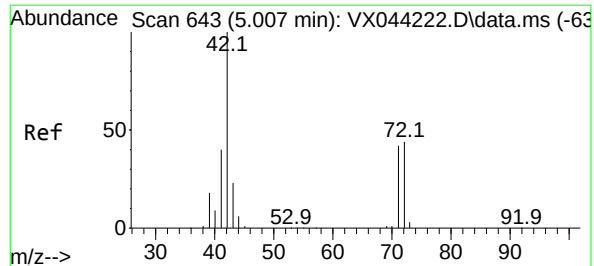
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 52.7 62.1 93.1#





#29

Tetrahydrofuran

Concen: 4.491 ug/l

RT: 5.025 min Scan# 64

Delta R.T. 0.018 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 42 Resp: 4158

Ion Ratio Lower Upper

42 100

72 27.0 37.0 55.6

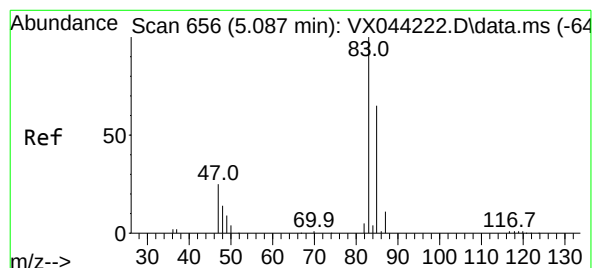
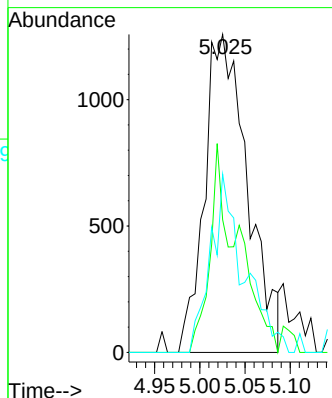
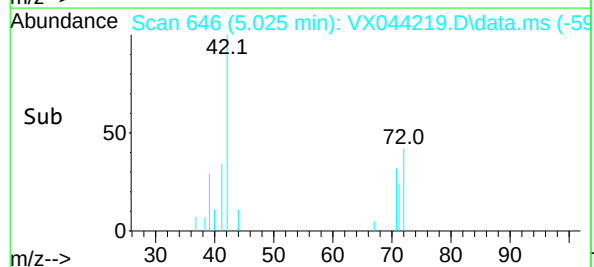
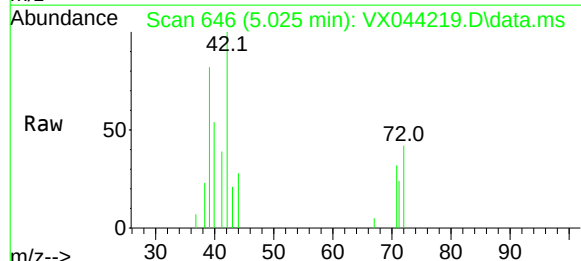
71 43.1 33.6 50.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#30

Chloroform

Concen: 1.055 ug/l

RT: 5.086 min Scan# 656

Delta R.T. -0.000 min

Lab File: VX044219.D

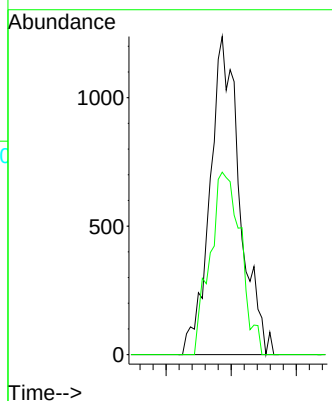
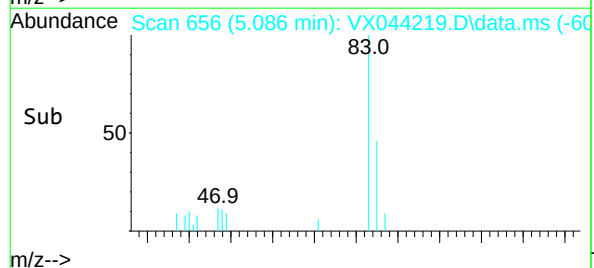
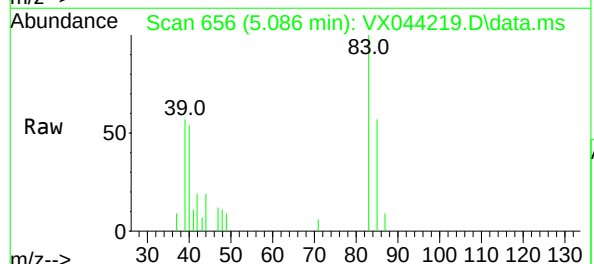
Acq: 11 Dec 2024 10:41

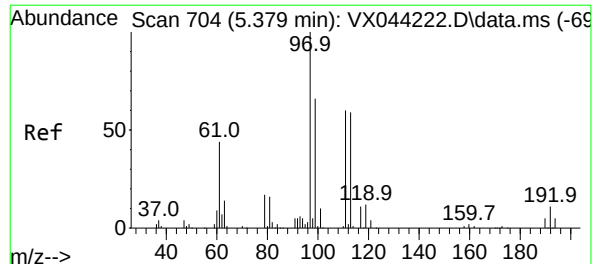
Tgt Ion: 83 Resp: 3943

Ion Ratio Lower Upper

83 100

85 57.4 51.6 77.4





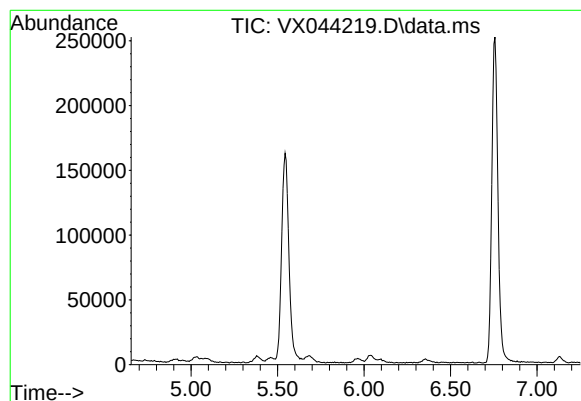
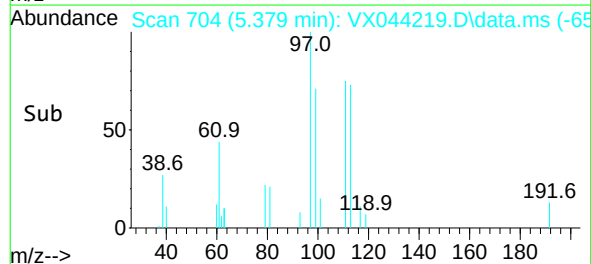
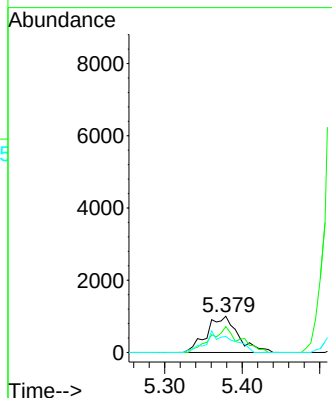
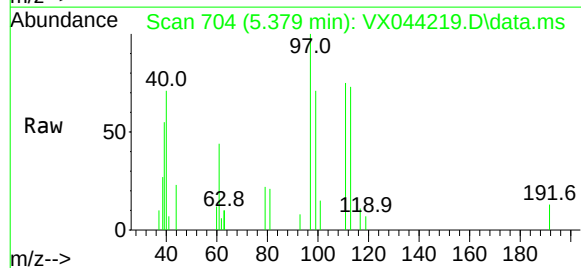
#32
1,1,1-Trichloroethane
Concen: 0.908 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 97 Resp: 2818
Ion Ratio Lower Upper
97 100
99 0.0 50.8 76.2#
61 49.9 35.2 52.8

Manual Integrations
APPROVED

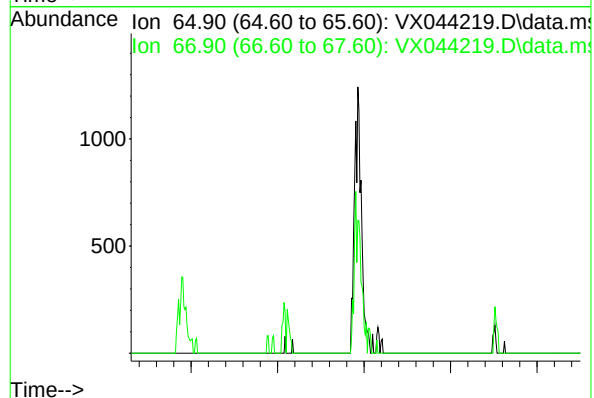
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

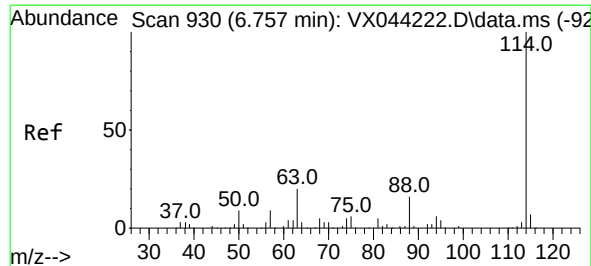


#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 5.95 min

Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 65
Sig Exp Ratio
65 100
67 50.8





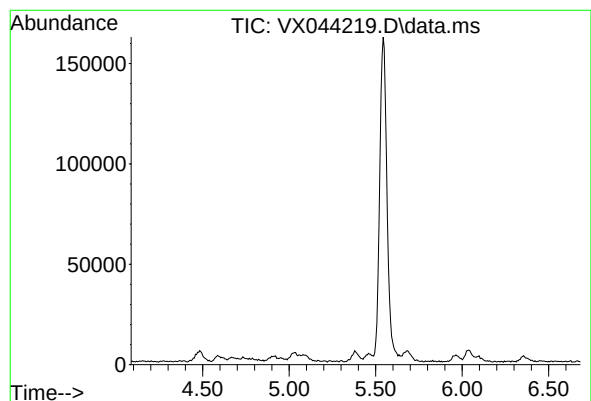
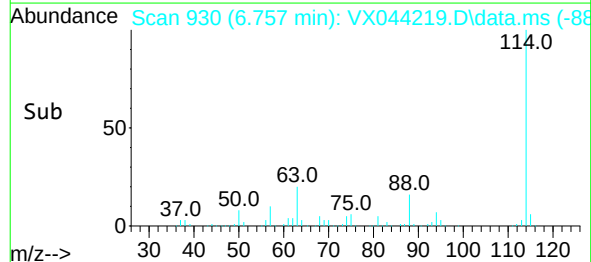
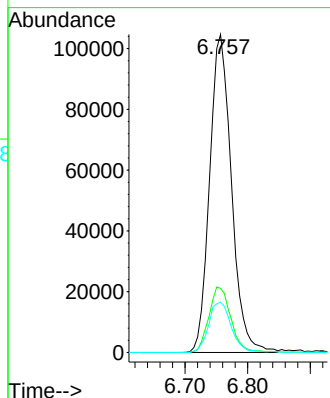
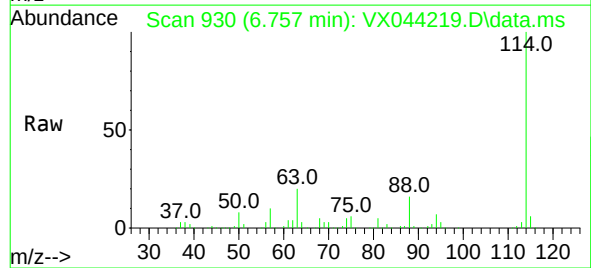
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 114 Resp: 253574
Ion Ratio Lower Upper
114 100
63 20.1 0.0 40.6
88 15.8 0.0 31.8

Manual Integrations
APPROVED

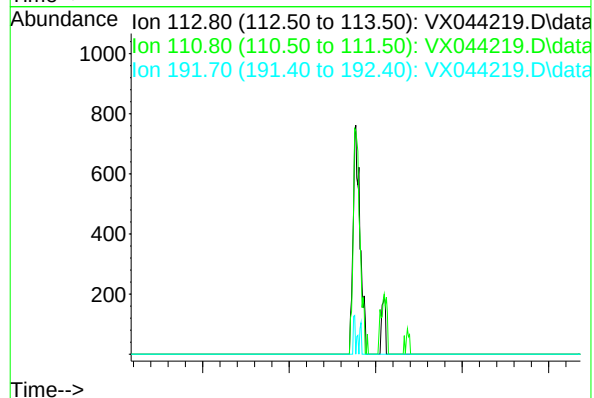
Reviewed By : John Carlone 12/12/2024
Supervised By : Mahesh Dadoda 12/12/2024

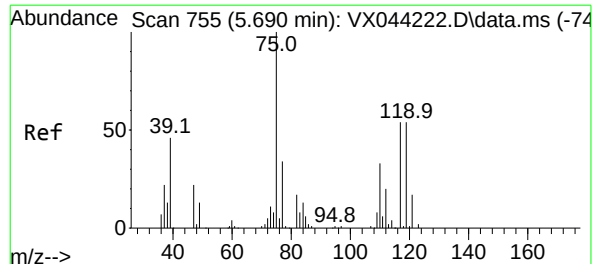


#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.39 min

Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 113
Sig Exp Ratio
113 100
111 100.5
192 16.6





#36

1,1-Dichloropropene

Concen: 1.092 ug/l m

RT: 5.696 min Scan# 75

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 75 Resp: 2479

Ion Ratio Lower Upper

75 100

110 18.4 17.3 51.7

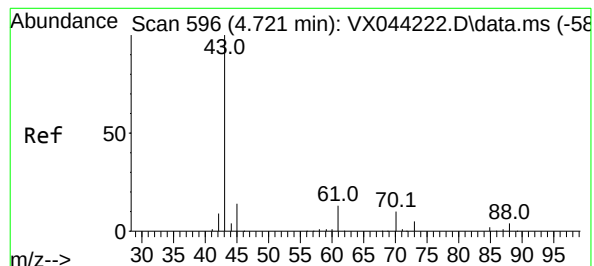
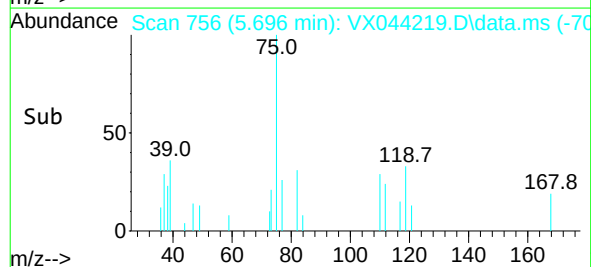
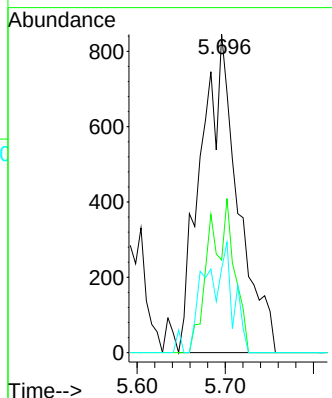
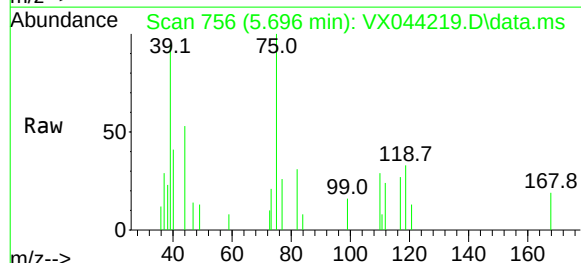
77 12.7 25.4 38.0#

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#37

Ethyl Acetate

Concen: 0.969 ug/l

RT: 4.727 min Scan# 597

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

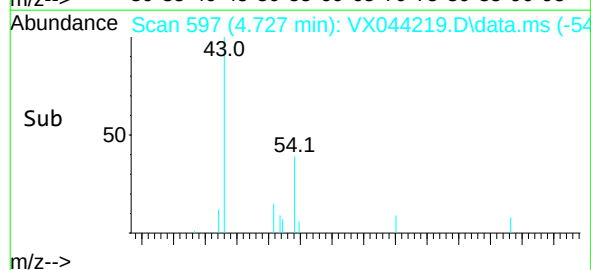
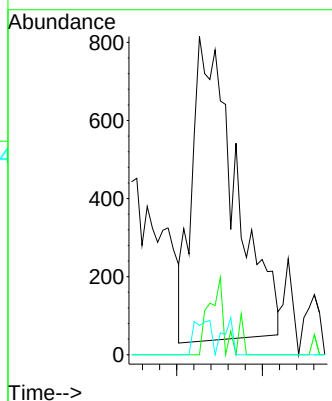
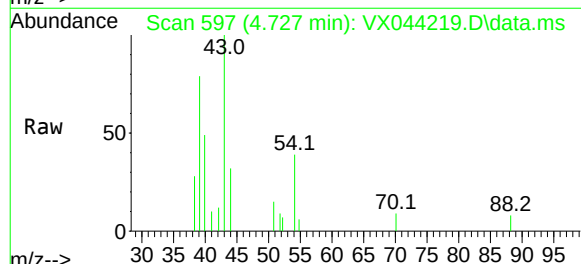
Tgt Ion: 43 Resp: 2718

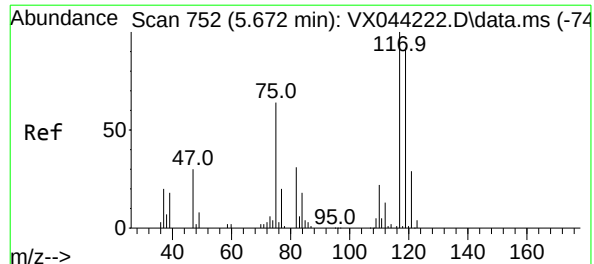
Ion Ratio Lower Upper

43 100

61 0.0 9.8 14.8#

70 0.0 7.7 11.5#





#38

Carbon Tetrachloride

Concen: 1.004 ug/l

RT: 5.678 min Scan# 75

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 117 Resp: 2454

Ion Ratio Lower Upper

117 100

119 61.1 74.2 111.4

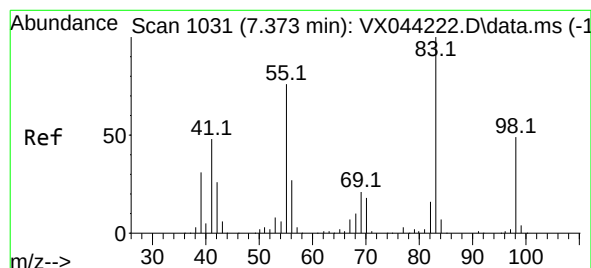
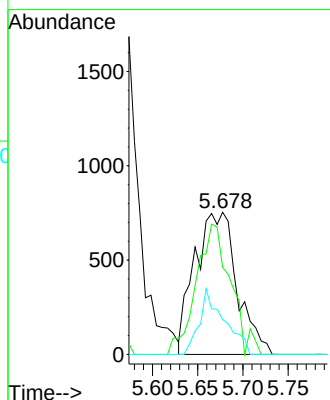
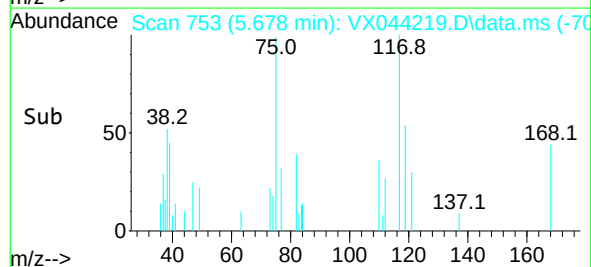
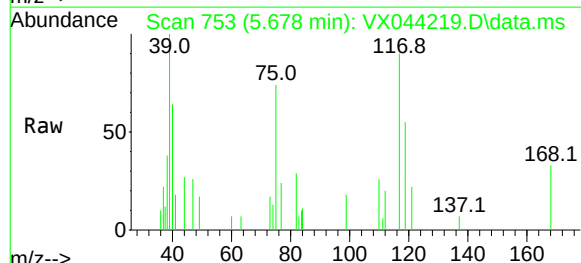
121 24.5 23.0 34.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#39

Methylcyclohexane

Concen: 0.960 ug/l

RT: 7.366 min Scan# 1030

Delta R.T. -0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

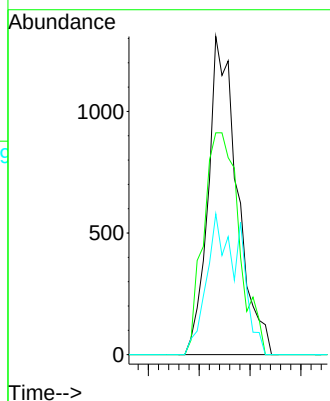
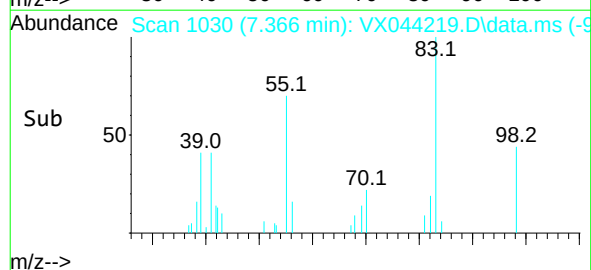
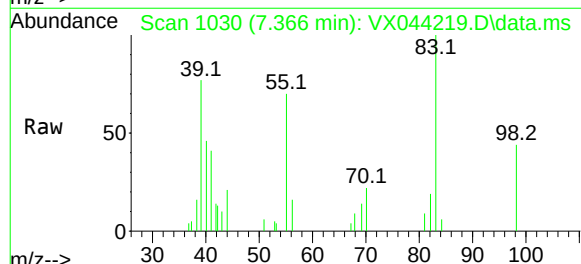
Tgt Ion: 83 Resp: 2606

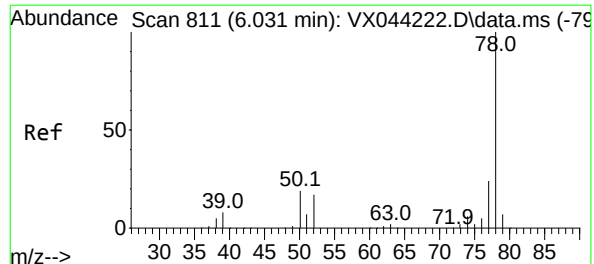
Ion Ratio Lower Upper

83 100

55 69.7 60.7 91.1

98 44.3 38.9 58.3





#40

Benzene

Concen: 0.996 ug/l

RT: 6.037 min Scan# 811

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 78 Resp: 6864

Ion Ratio Lower Upper

78 100

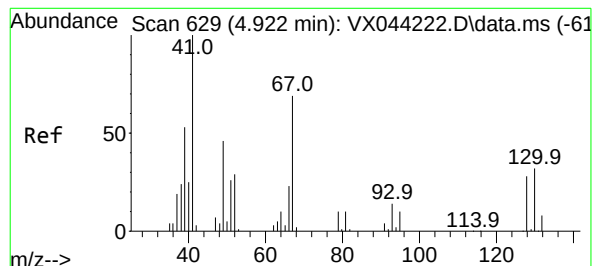
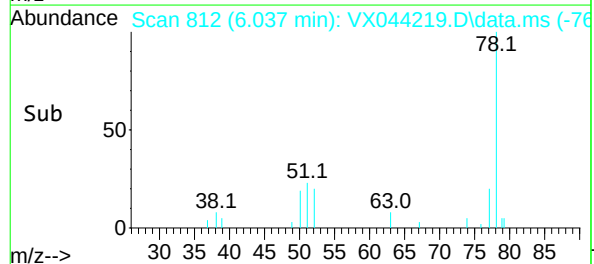
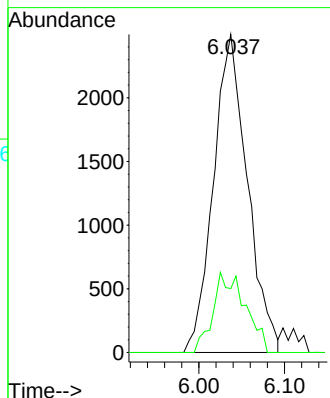
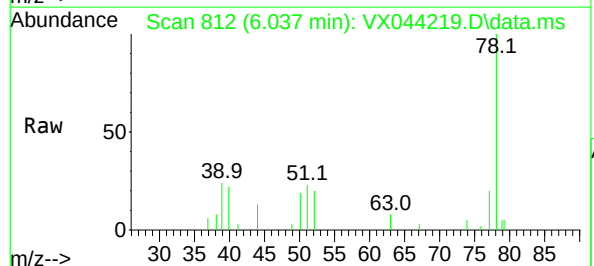
77 20.1 19.3 28.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#41

Methacrylonitrile

Concen: 0.971 ug/l m

RT: 4.946 min Scan# 633

Delta R.T. 0.024 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Tgt Ion: 41 Resp: 1447

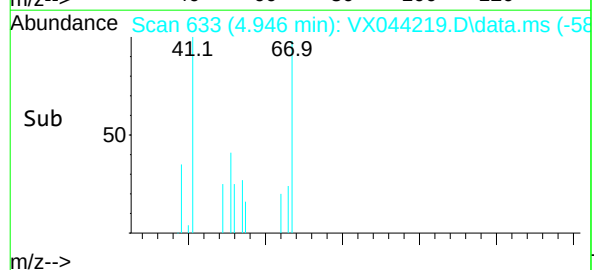
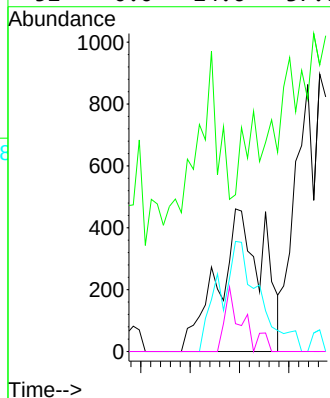
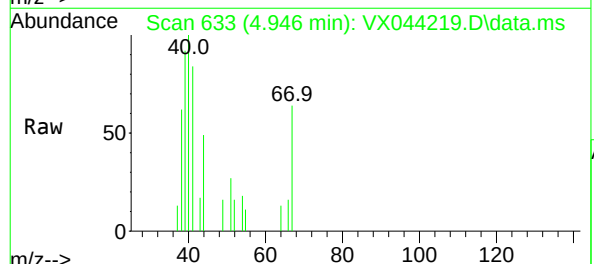
Ion Ratio Lower Upper

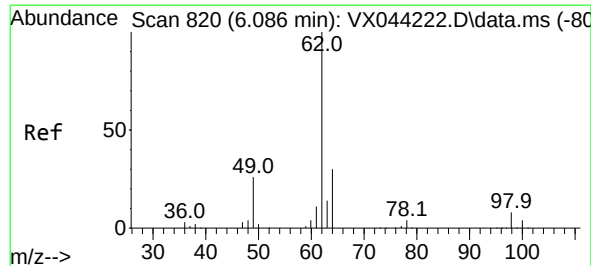
41 100

39 58.5 44.2 66.4

67 0.0 57.2 85.8#

52 0.0 24.6 37.0#





#42

1,2-Dichloroethane

Concen: 0.990 ug/l

RT: 6.092 min Scan# 821

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 62 Resp: 2810

Ion Ratio Lower Upper

62 100

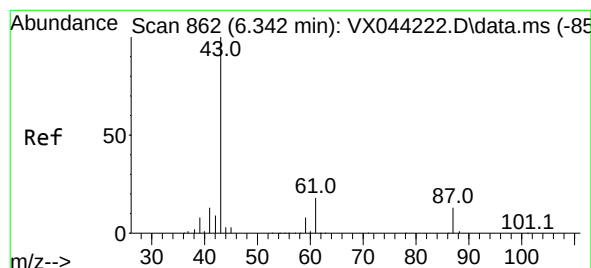
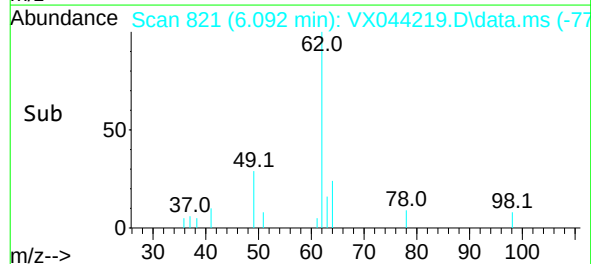
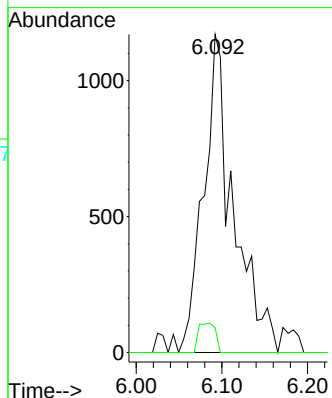
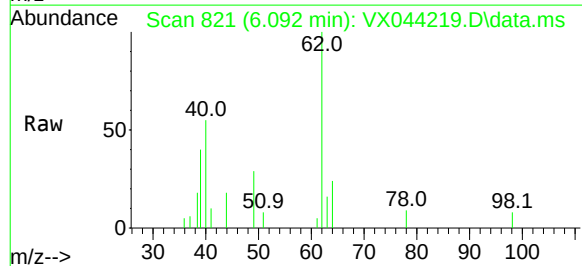
98 5.3 0.0 15.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#43

Isopropyl Acetate

Concen: 0.851 ug/l

RT: 6.354 min Scan# 864

Delta R.T. 0.012 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

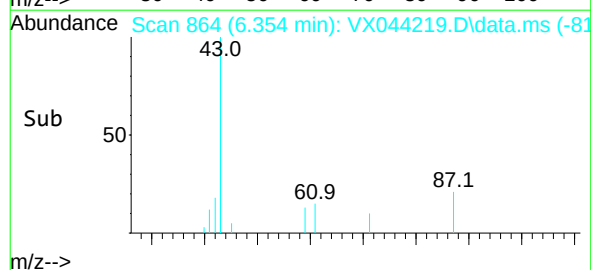
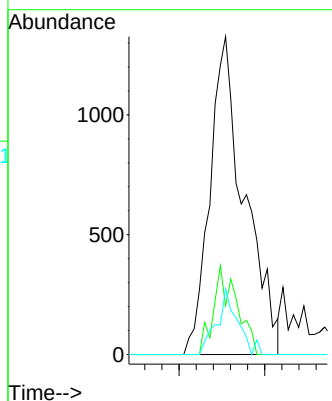
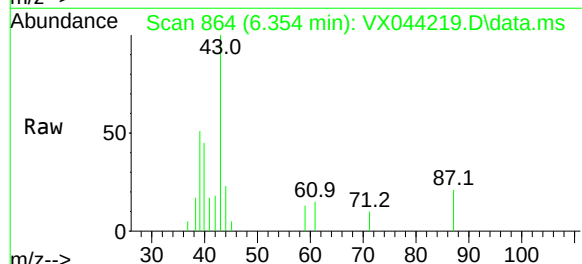
Tgt Ion: 43 Resp: 3734

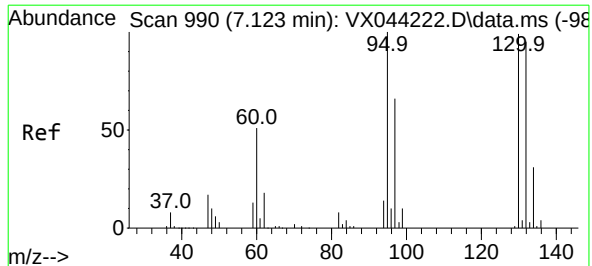
Ion Ratio Lower Upper

43 100

61 18.9 14.2 21.2

87 12.4 10.2 15.2





#44

Trichloroethene

Concen: 1.051 ug/l

RT: 7.122 min Scan# 99

Delta R.T. -0.000 min

Lab File: VX044219.D

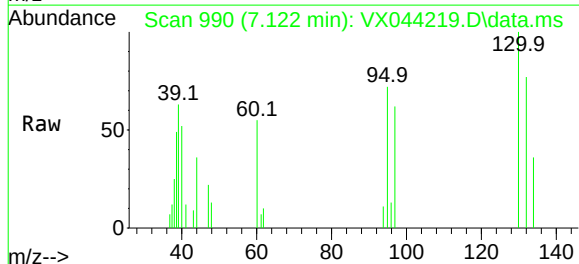
Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001



Tgt Ion: 130 Resp: 1806

Ion Ratio Lower Upper

130 100

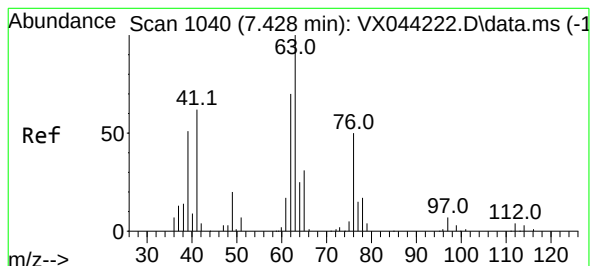
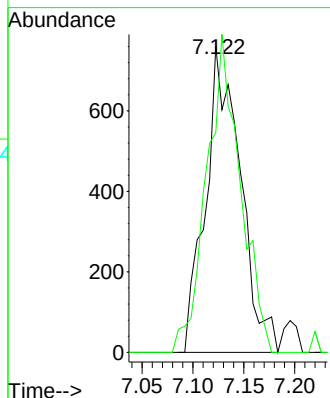
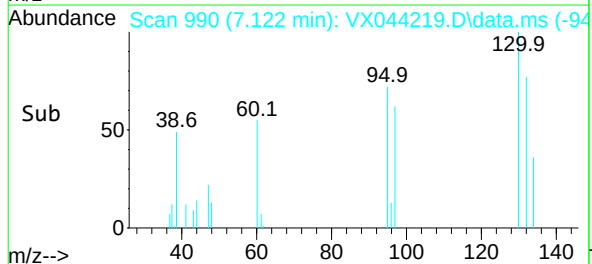
95 71.7 0.0 201.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#45

1,2-Dichloropropane

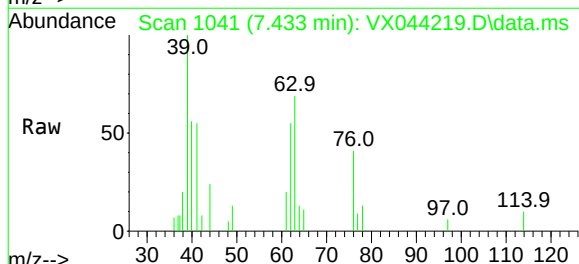
Concen: 1.059 ug/l

RT: 7.433 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

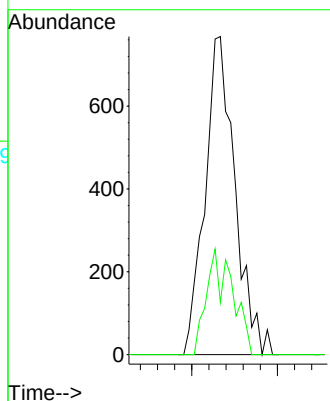
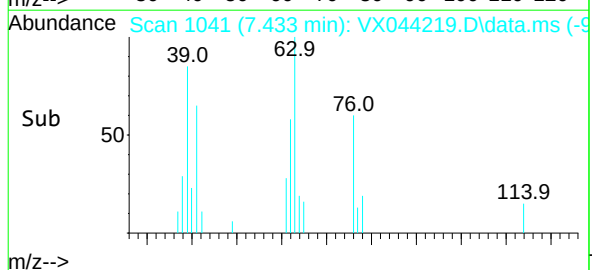


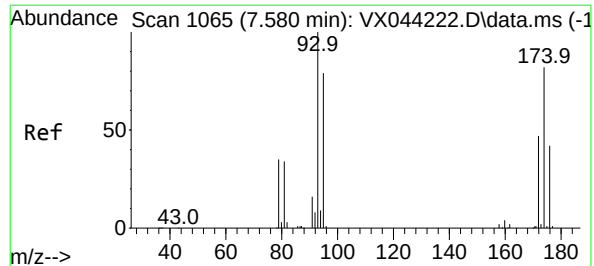
Tgt Ion: 63 Resp: 1865

Ion Ratio Lower Upper

63 100

65 16.4 24.6 37.0#





#46

Dibromomethane

Concen: 0.916 ug/l

RT: 7.592 min Scan# 1065

Delta R.T. 0.012 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 93 Resp: 1251

Ion Ratio Lower Upper

93 100

95 85.8 65.4 98.2

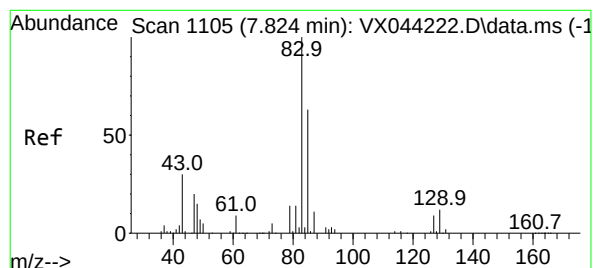
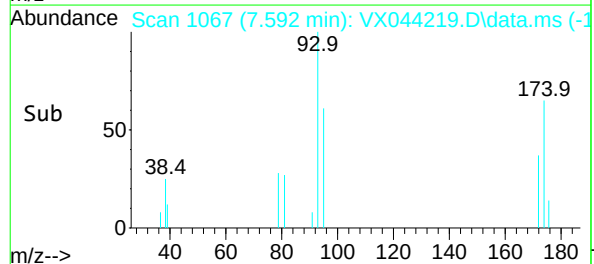
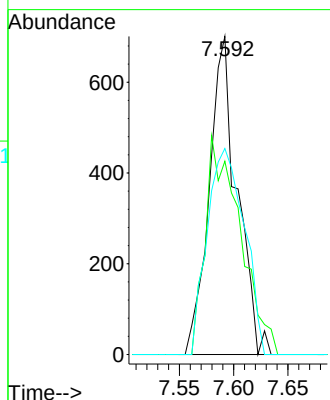
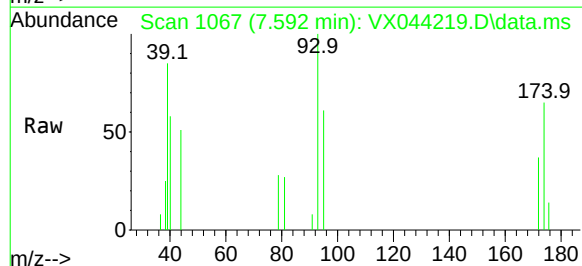
174 86.3 67.9 101.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#47

Bromodichloromethane

Concen: 0.816 ug/l

RT: 7.830 min Scan# 1106

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

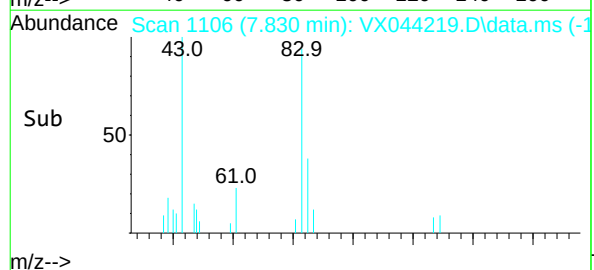
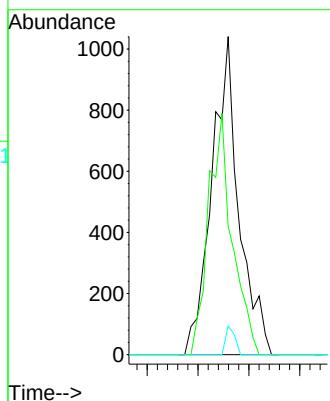
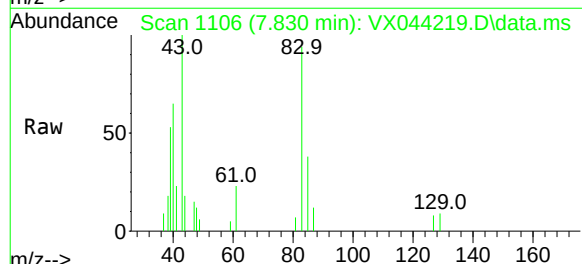
Tgt Ion: 83 Resp: 1926

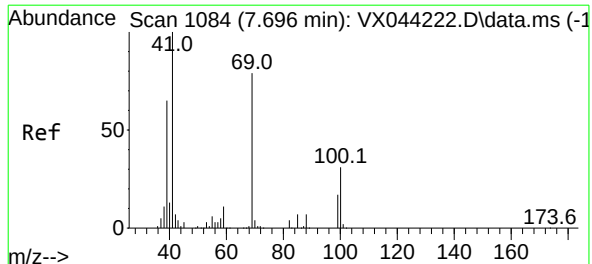
Ion Ratio Lower Upper

83 100

85 40.3 50.6 75.8#

127 9.0 7.3 10.9





#48

Methyl methacrylate

Concen: 1.018 ug/l

RT: 7.720 min Scan# 1085

Delta R.T. 0.024 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 41 Resp: 2168

Ion Ratio Lower Upper

41 100

69 43.9 62.4 93.6#

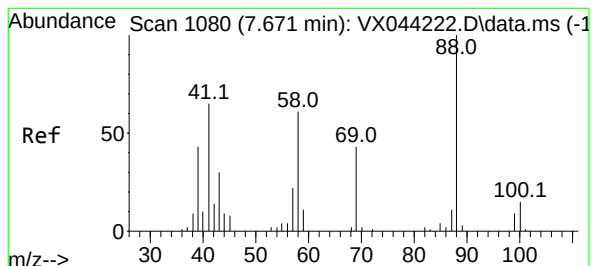
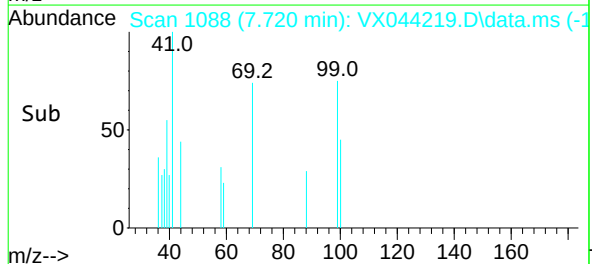
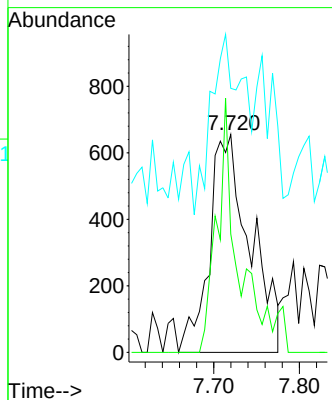
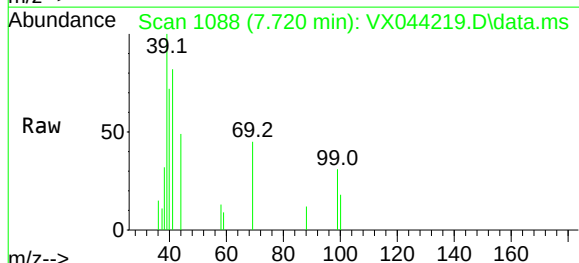
39 64.1 53.3 79.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#49

1,4-Dioxane

Concen: 13.522 ug/l m

RT: 7.702 min Scan# 1085

Delta R.T. 0.030 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

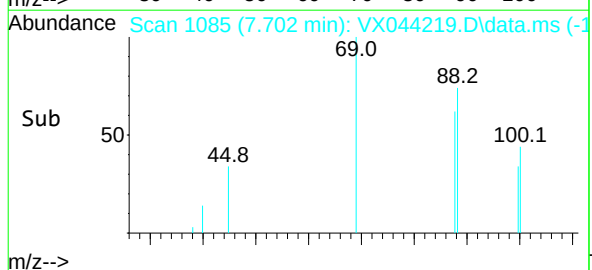
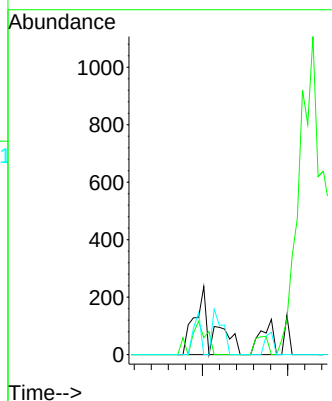
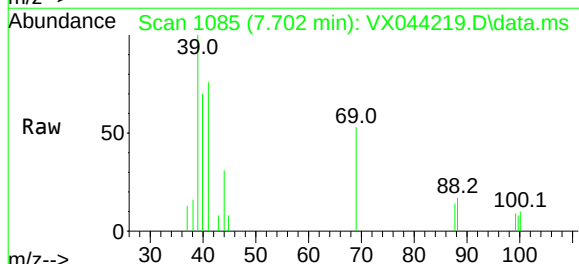
Tgt Ion: 88 Resp: 492

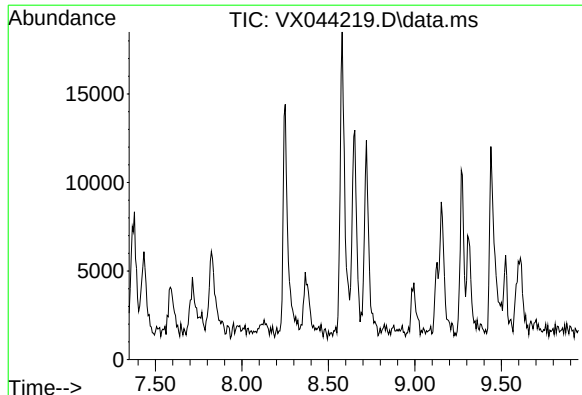
Ion Ratio Lower Upper

88 100

43 28.9 27.1 40.7

58 17.7 41.0 61.4#





#50

Toluene-d8

Concen: 0.000 ug/l

Expected RT: 8.65 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Tgt Ion: 98

Sig Exp Ratio

98 100

100 64.4

Instrument :

MSVOA_X

ClientSampleId :

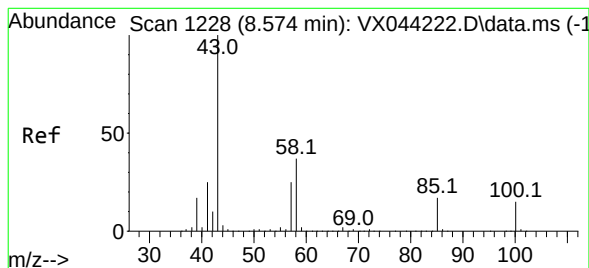
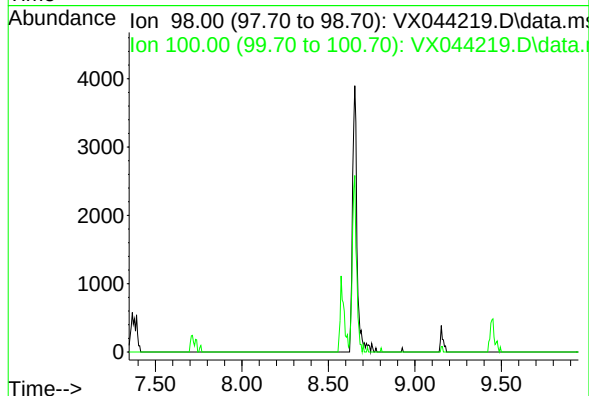
VSTDICC001

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#51

4-Methyl-2-Pentanone

Concen: 4.547 ug/l

RT: 8.579 min Scan# 1229

Delta R.T. 0.006 min

Lab File: VX044219.D

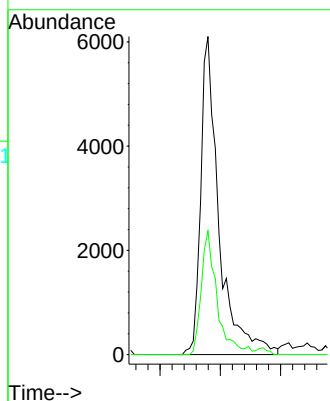
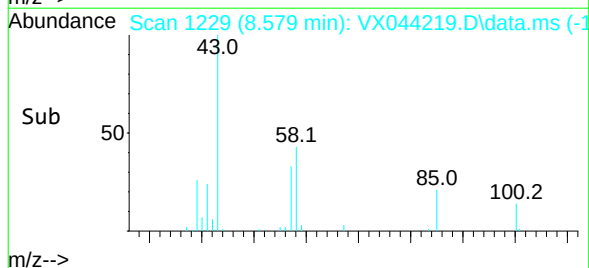
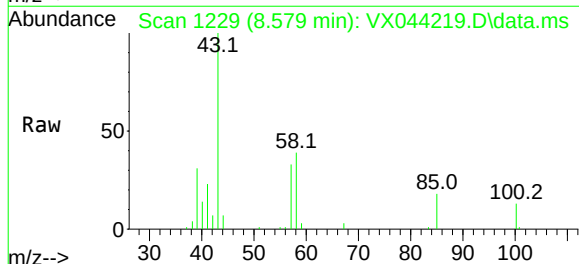
Acq: 11 Dec 2024 10:41

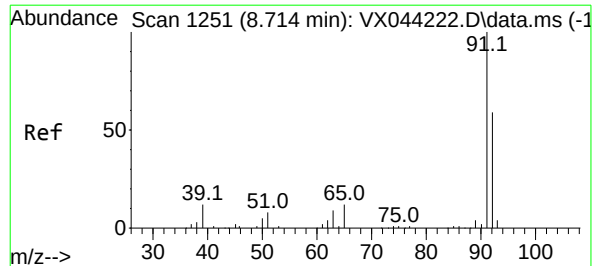
Tgt Ion: 43 Resp: 12824

Ion Ratio Lower Upper

43 100

58 34.0 29.4 44.0





#52

Toluene

Concen: 1.064 ug/l

RT: 8.720 min Scan# 12

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 92 Resp: 4606

Ion Ratio Lower Upper

92 100

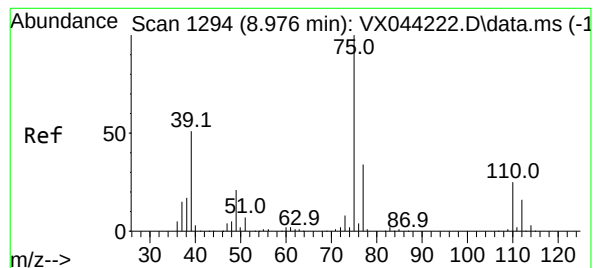
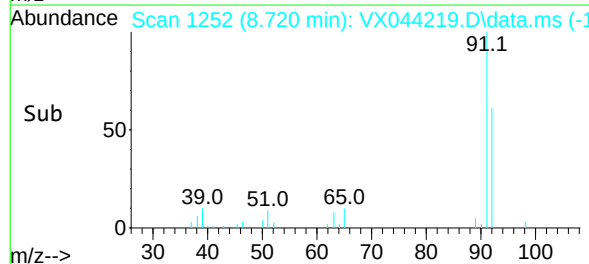
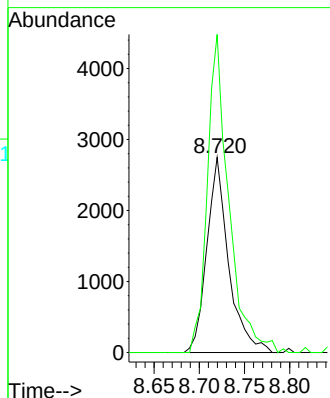
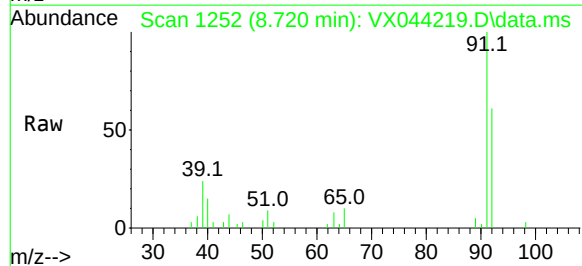
91 160.1 137.0 205.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#53

t-1,3-Dichloropropene

Concen: 1.694 ug/l

RT: 8.988 min Scan# 1296

Delta R.T. 0.012 min

Lab File: VX044219.D

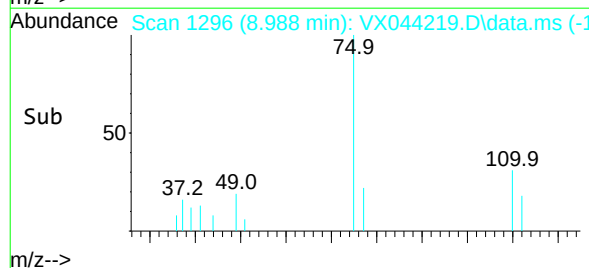
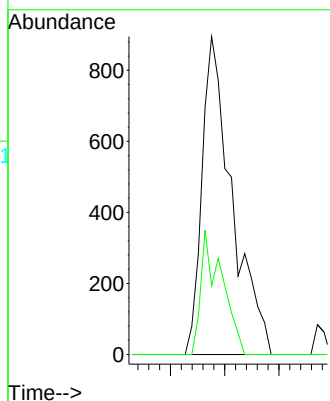
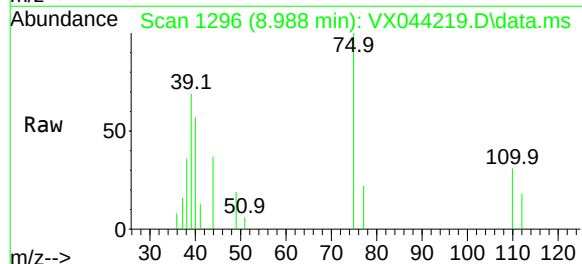
Acq: 11 Dec 2024 10:41

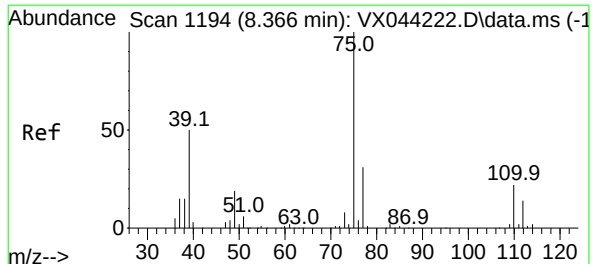
Tgt Ion: 75 Resp: 1716

Ion Ratio Lower Upper

75 100

77 21.7 27.2 40.8#





#54

cis-1,3-Dichloropropene

Concen: 0.797 ug/l

RT: 8.366 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX044219.D

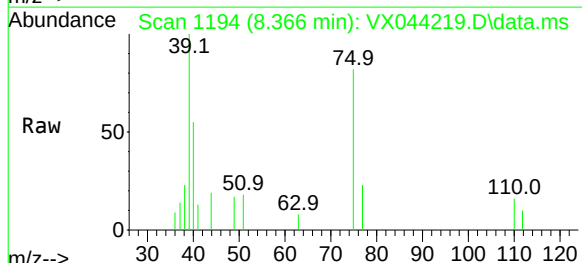
Acq: 11 Dec 2024 10:41

Instrument :

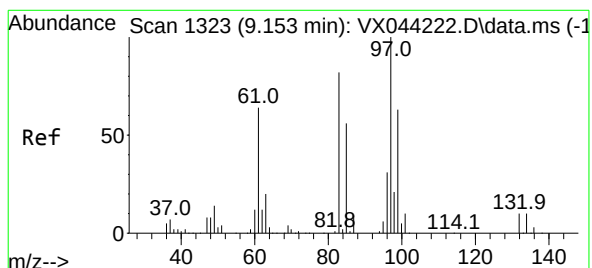
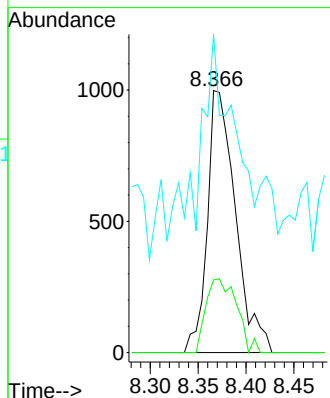
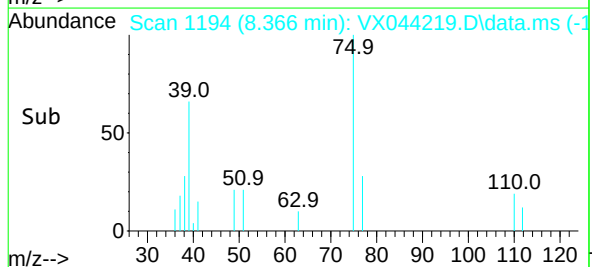
MSVOA_X

ClientSampleId :

VSTDIC001



Tgt Ion:	75	Resp:	2048
Ion	Ratio	Lower	Upper
75	100		
77	27.8	24.7	37.1
39	76.2	40.3	60.5#

Manual Integrations
APPROVEDReviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

#55

1,1,2-Trichloroethane

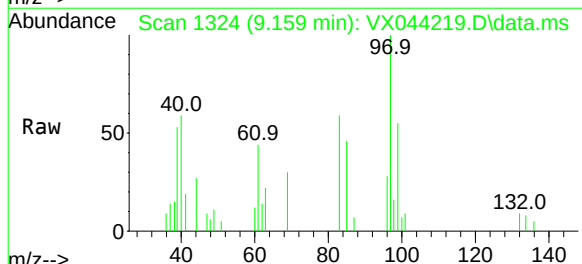
Concen: 0.994 ug/l

RT: 9.159 min Scan# 1324

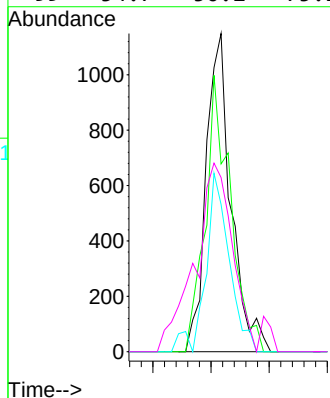
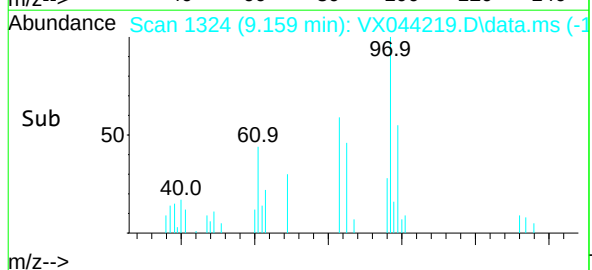
Delta R.T. 0.006 min

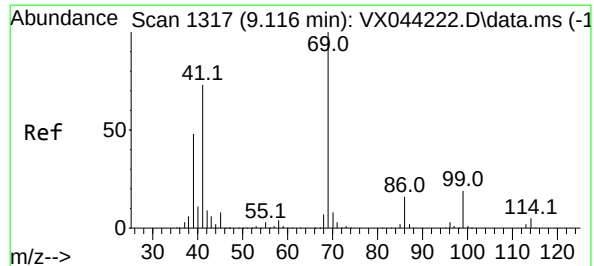
Lab File: VX044219.D

Acq: 11 Dec 2024 10:41



Tgt Ion:	97	Resp:	1710
Ion	Ratio	Lower	Upper
97	100		
83	59.0	65.3	97.9#
85	46.3	44.6	67.0
99	54.7	50.2	75.2





#56

Ethyl methacrylate

Concen: 0.917 ug/l

RT: 9.128 min Scan# 1317

Delta R.T. 0.012 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 69 Resp: 2490

Ion Ratio Lower Upper

69 100

41 55.7 56.6 85.0

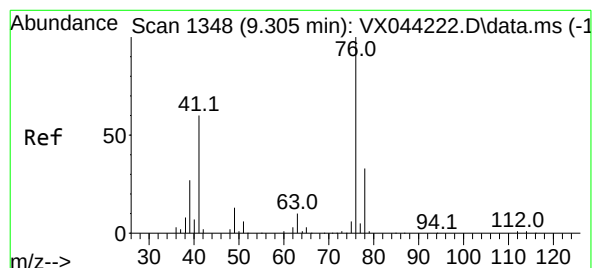
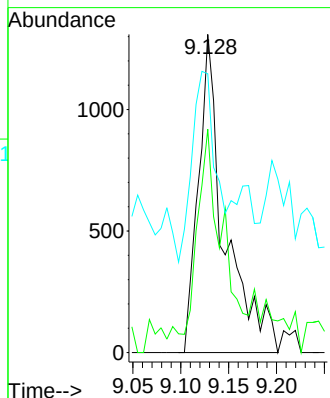
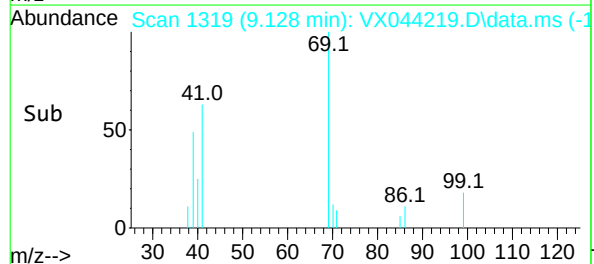
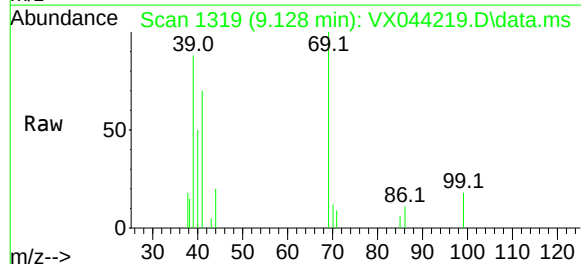
39 53.1 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#57

1,3-Dichloropropane

Concen: 0.979 ug/l

RT: 9.317 min Scan# 1350

Delta R.T. 0.012 min

Lab File: VX044219.D

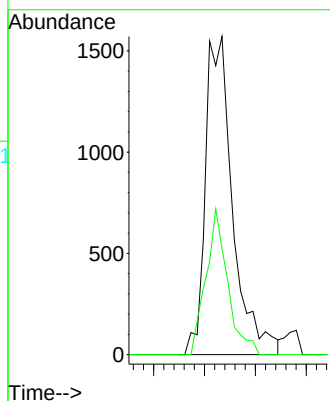
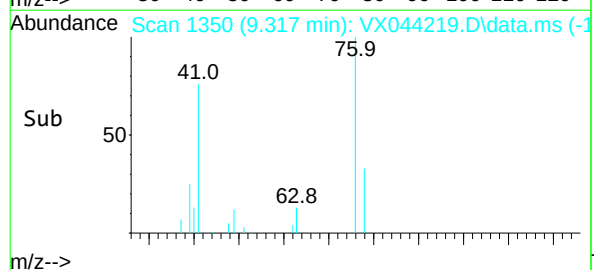
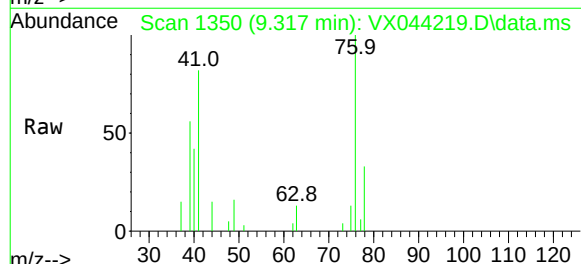
Acq: 11 Dec 2024 10:41

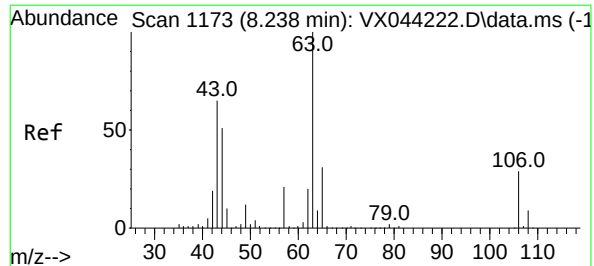
Tgt Ion: 76 Resp: 2929

Ion Ratio Lower Upper

76 100

78 36.5 26.5 39.7





#58

2-Chloroethyl Vinyl ether

Concen: 4.105 ug/l

RT: 8.244 min Scan# 1173

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 63 Resp: 5621

Ion Ratio Lower Upper

63 100

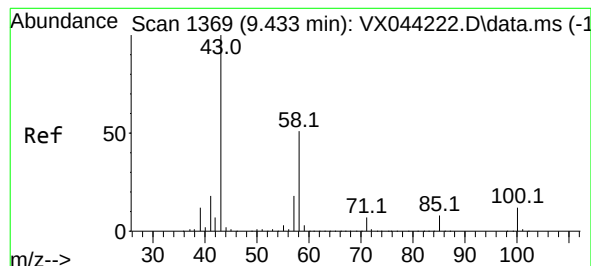
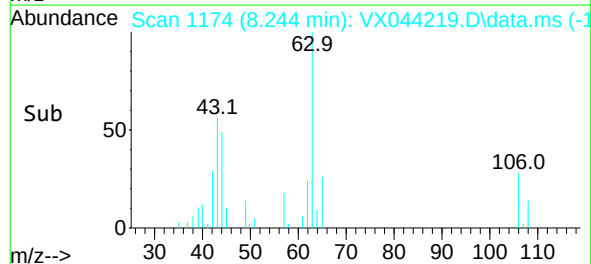
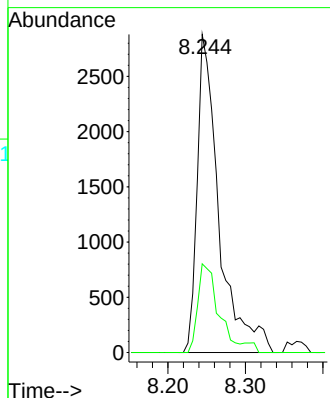
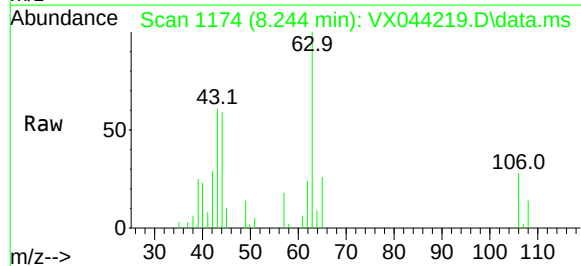
106 26.2 22.8 34.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#59

2-Hexanone

Concen: 4.017 ug/l

RT: 9.439 min Scan# 1370

Delta R.T. 0.006 min

Lab File: VX044219.D

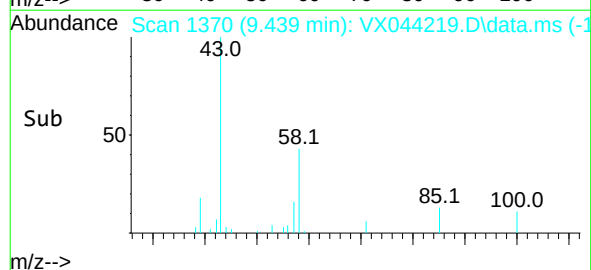
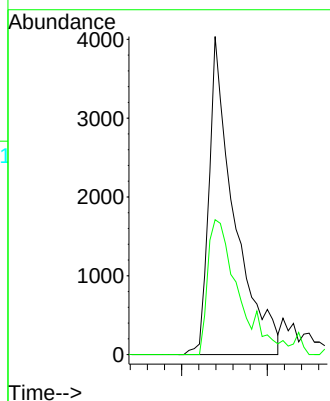
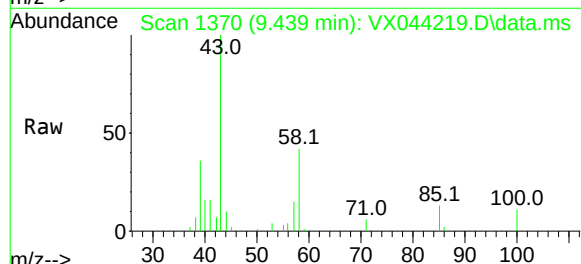
Acq: 11 Dec 2024 10:41

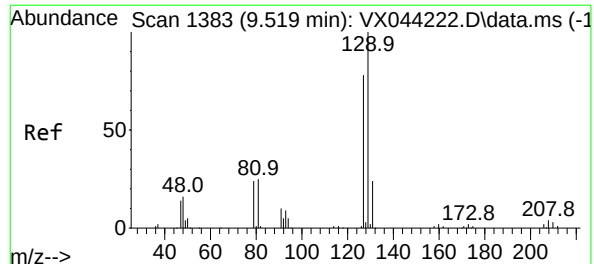
Tgt Ion: 43 Resp: 8199

Ion Ratio Lower Upper

43 100

58 52.5 25.7 77.0





#60

Dibromochloromethane

Concen: 1.953 ug/l

RT: 9.524 min Scan# 1383

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:129 Resp: 1289

Ion Ratio Lower Upper

129 100

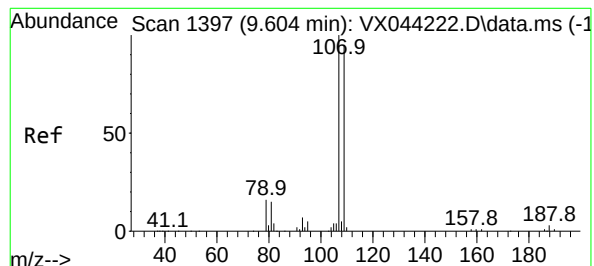
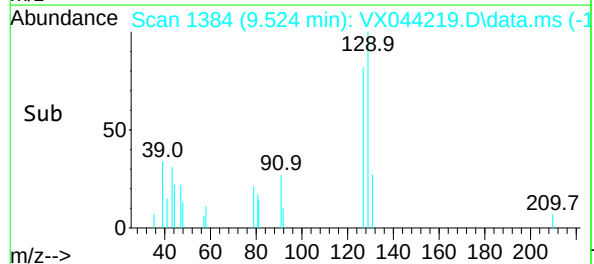
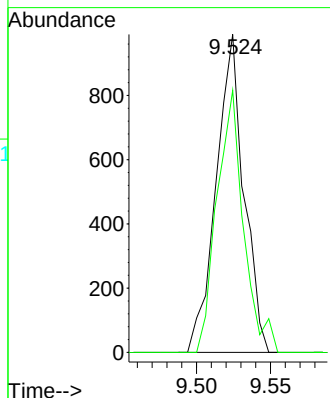
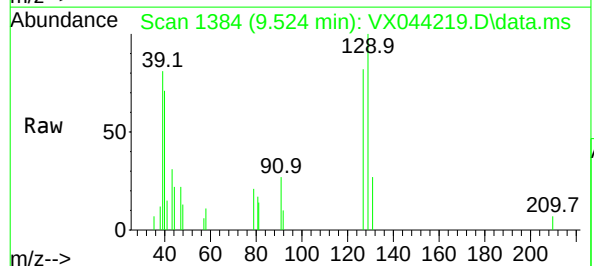
127 79.2 38.5 115.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#61

1,2-Dibromoethane

Concen: 0.877 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VX044219.D

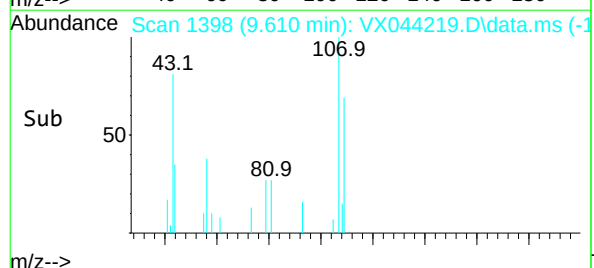
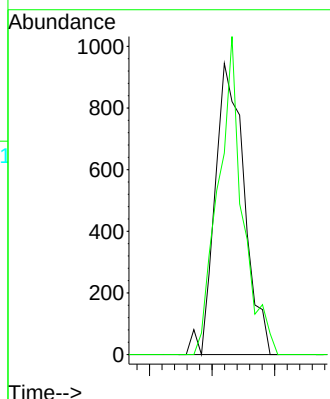
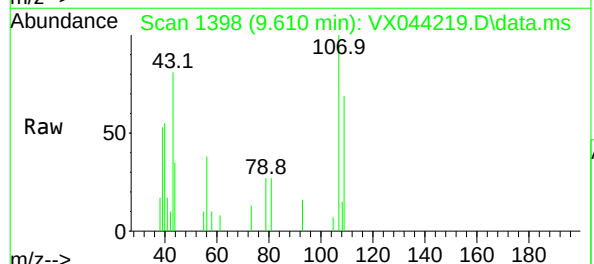
Acq: 11 Dec 2024 10:41

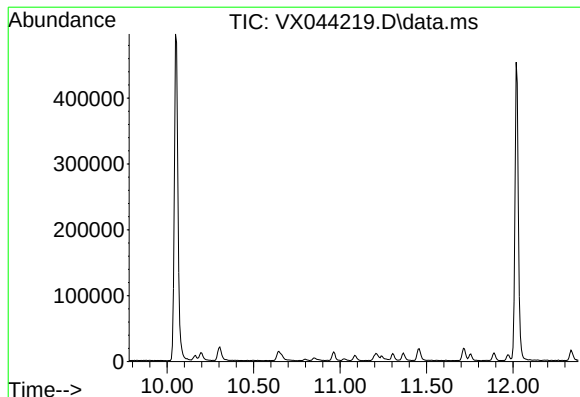
Tgt Ion:107 Resp: 1535

Ion Ratio Lower Upper

107 100

109 91.3 77.0 115.4





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 11.08 min

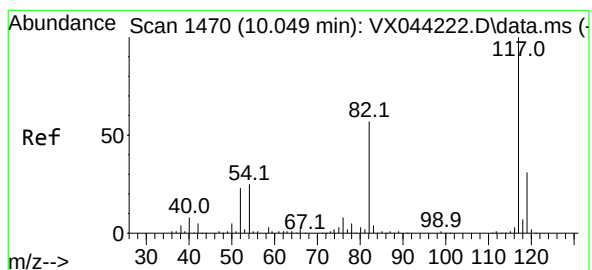
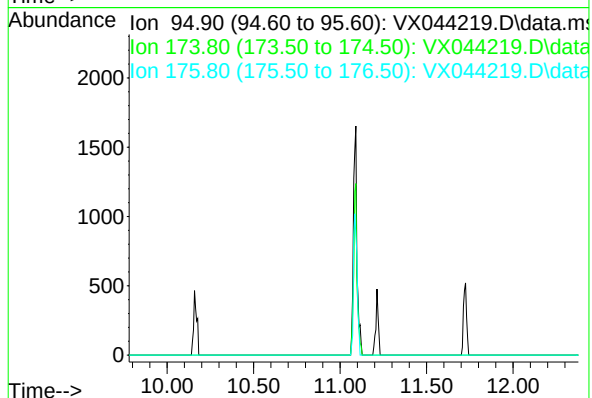
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 95
Sig Exp Ratio
95 100
174 72.9
176 68.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

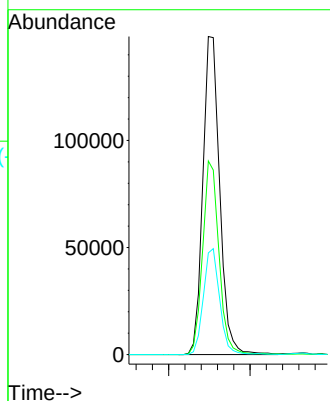
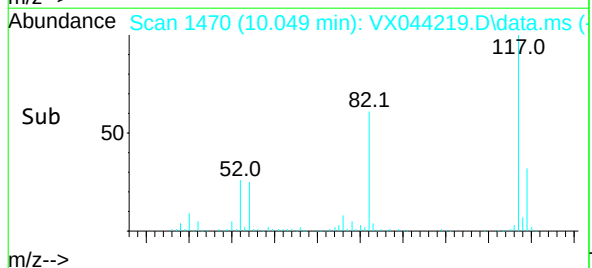
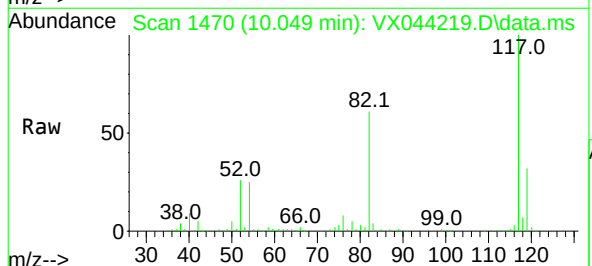
Manual Integrations
APPROVED

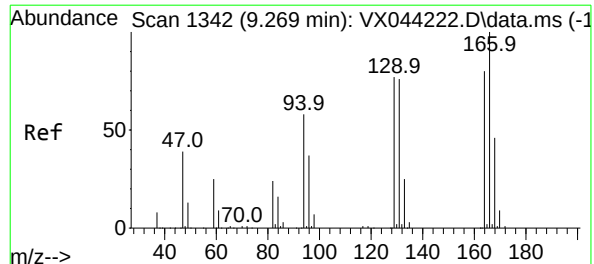
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:117 Resp: 213862
Ion Ratio Lower Upper
117 100
82 60.9 45.8 68.8
119 32.0 25.0 37.4





#64

Tetrachloroethene

Concen: 1.082 ug/l

RT: 9.274 min Scan# 1342

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:164 Resp: 1536

Ion Ratio Lower Upper

164 100

166 109.7 100.4 150.6

129 79.2 77.2 115.8

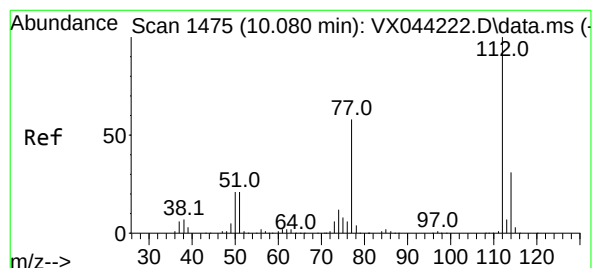
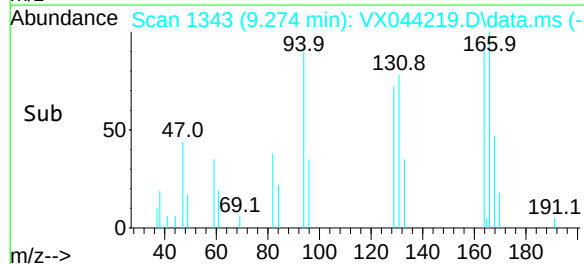
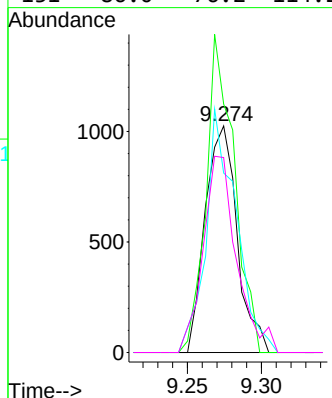
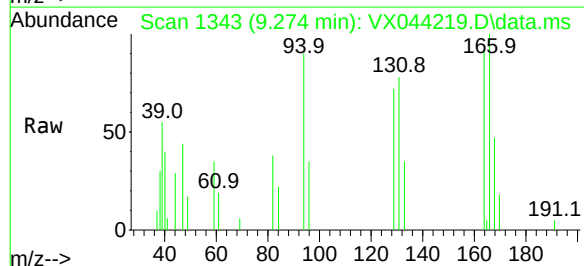
131 86.0 76.2 114.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#65

Chlorobenzene

Concen: 1.055 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VX044219.D

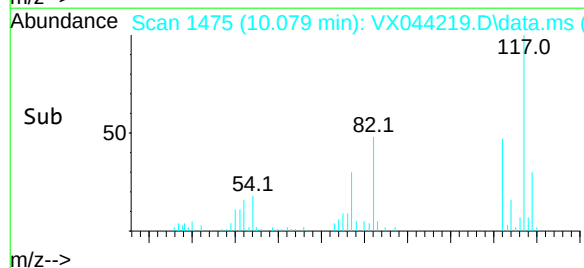
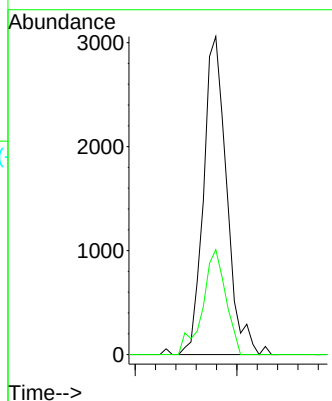
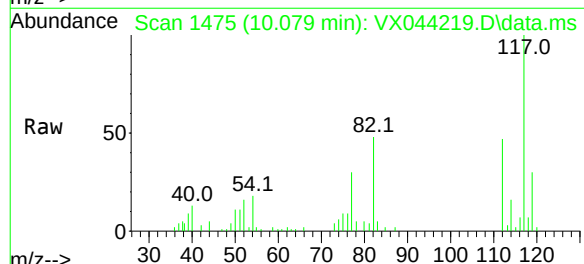
Acq: 11 Dec 2024 10:41

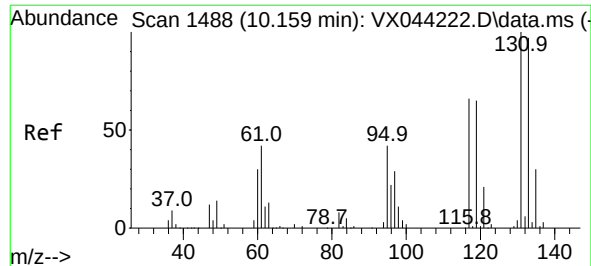
Tgt Ion:112 Resp: 4835

Ion Ratio Lower Upper

112 100

114 33.0 25.0 37.6





#66

1,1,1,2-Tetrachloroethane

Concen: 0.875 ug/l

RT: 10.158 min Scan# 1488

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 131 Resp: 1288

Ion Ratio Lower Upper

131 100

133 87.3 47.3 141.8

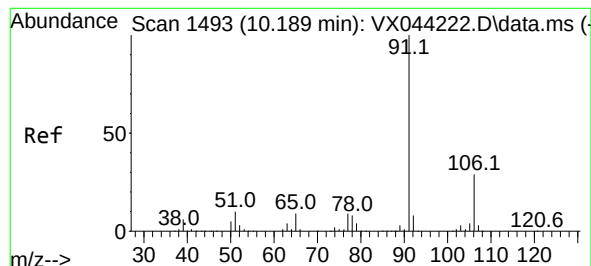
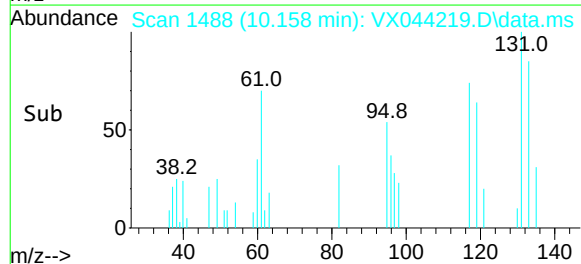
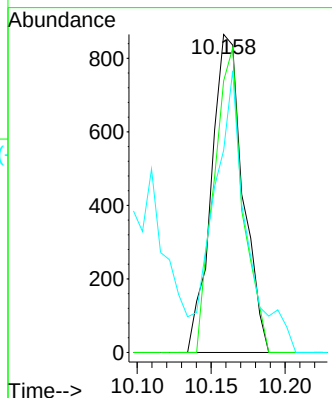
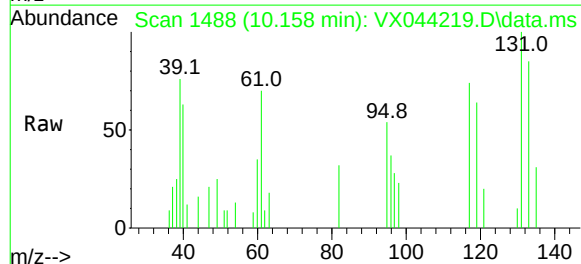
119 0.0 31.6 95.0#

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#67

Ethyl Benzene

Concen: 1.001 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.006 min

Lab File: VX044219.D

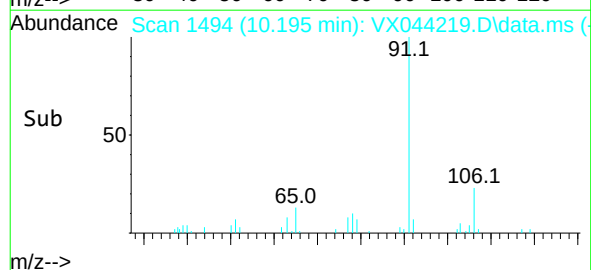
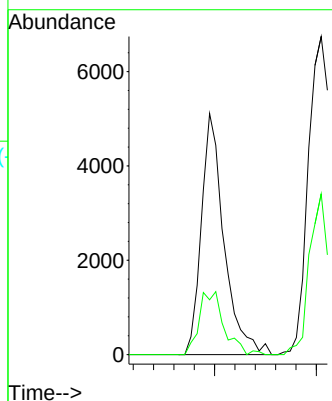
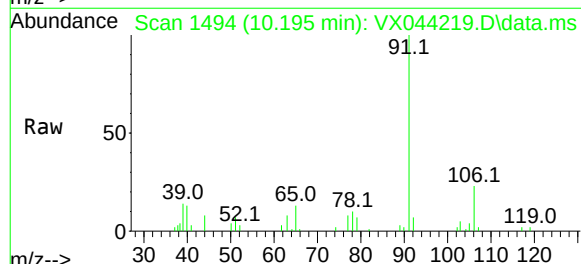
Acq: 11 Dec 2024 10:41

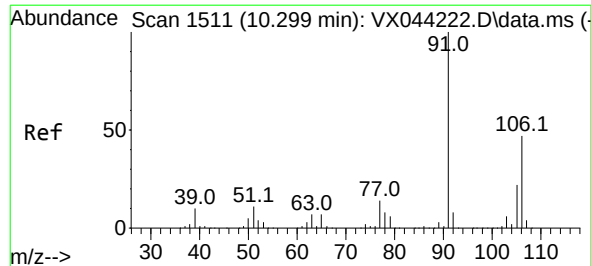
Tgt Ion: 91 Resp: 7924

Ion Ratio Lower Upper

91 100

106 22.7 23.5 35.3#





#68

m/p-Xylenes

Concen: 1.922 ug/l

RT: 10.305 min Scan# 1511

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion:106 Resp: 5583

Ion Ratio Lower Upper

106 100

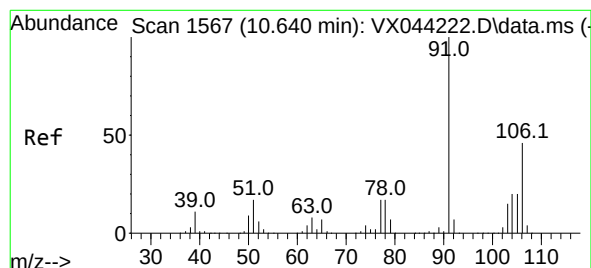
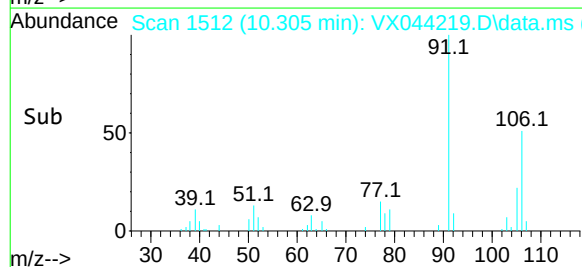
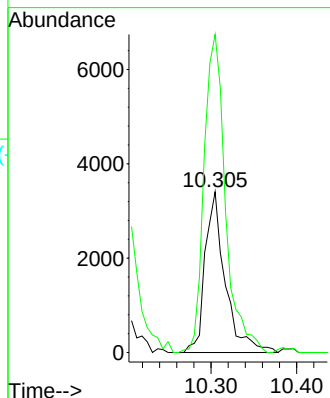
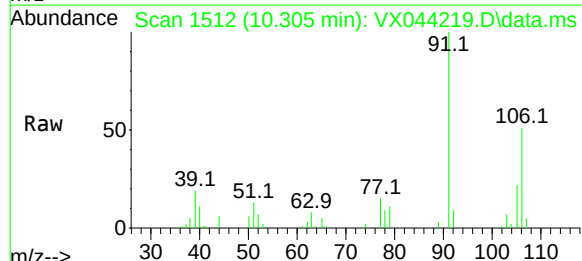
91 210.1 170.2 255.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#69

o-Xylene

Concen: 0.998 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX044219.D

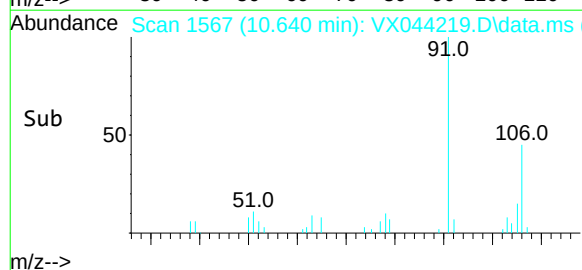
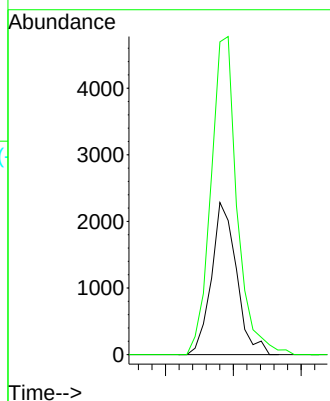
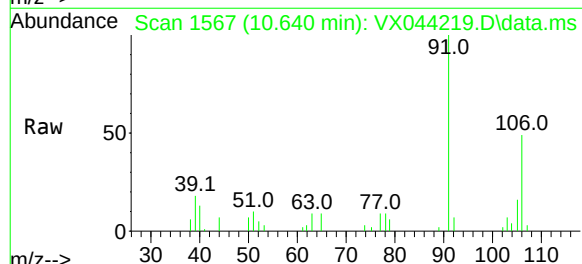
Acq: 11 Dec 2024 10:41

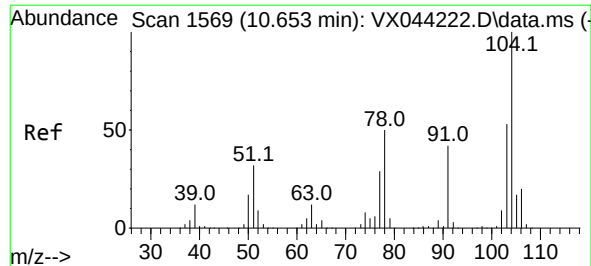
Tgt Ion:106 Resp: 2933

Ion Ratio Lower Upper

106 100

91 218.2 112.3 337.0





#70

Styrene

Concen: 0.914 ug/l

RT: 10.658 min Scan# 1569

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

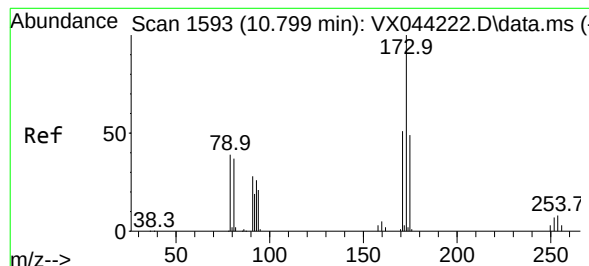
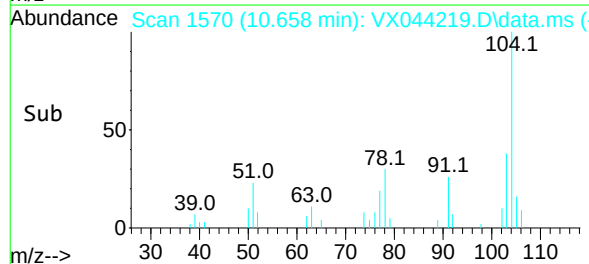
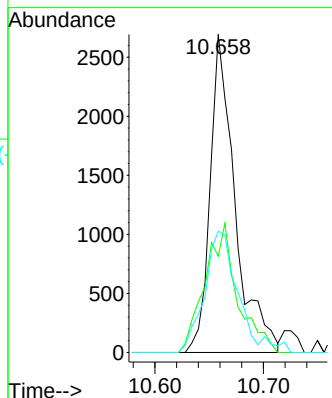
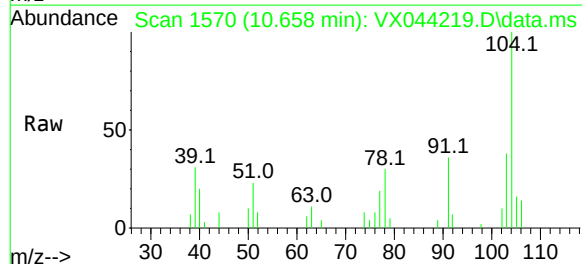
Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:	104	Resp:	4306
Ion Ratio	Lower	Upper	
104	100		
78	52.8	44.6	67.0
103	51.2	45.4	68.0

Manual Integrations
APPROVEDReviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

#71

Bromoform

Concen: 1.847 ug/l

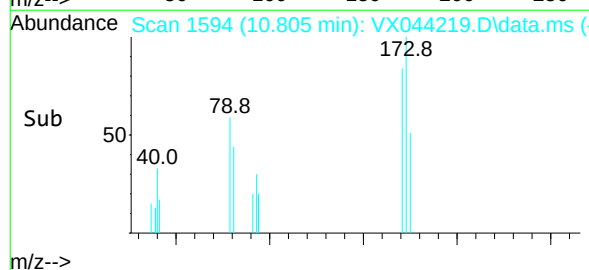
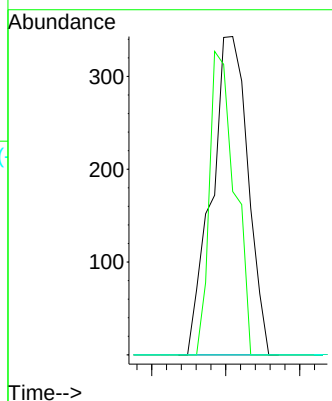
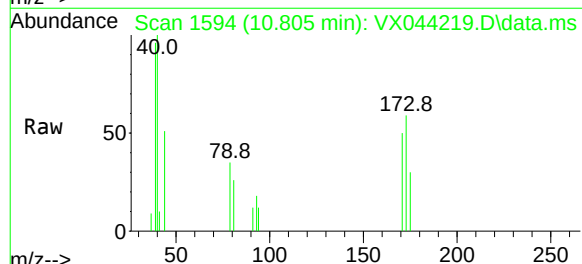
RT: 10.805 min Scan# 1594

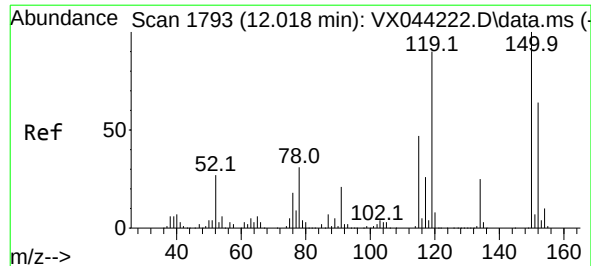
Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Tgt Ion:	173	Resp:	584
Ion Ratio	Lower	Upper	
173	100		
175	66.1	23.8	71.4
254	0.0	0.0	0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 17

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:152 Resp: 88334

Ion Ratio Lower Upper

152 100

115 62.1 44.5 133.3

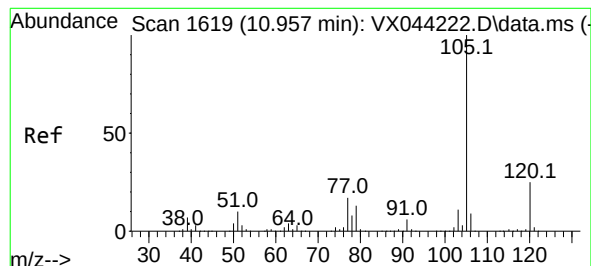
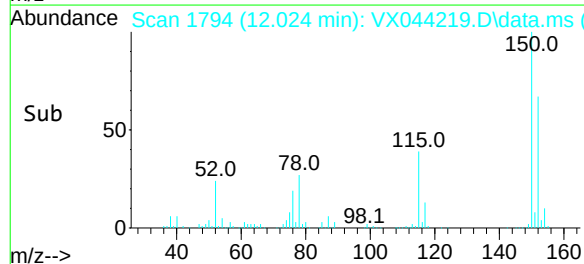
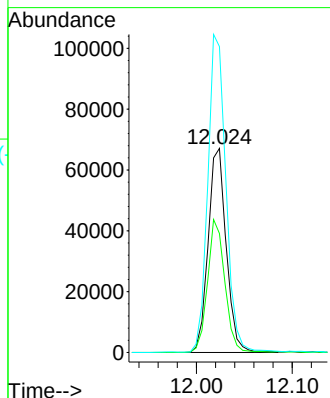
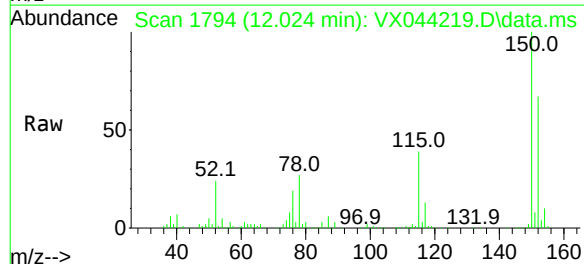
150 155.1 0.0 353.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#73

Isopropylbenzene

Concen: 0.957 ug/l

RT: 10.963 min Scan# 1620

Delta R.T. 0.006 min

Lab File: VX044219.D

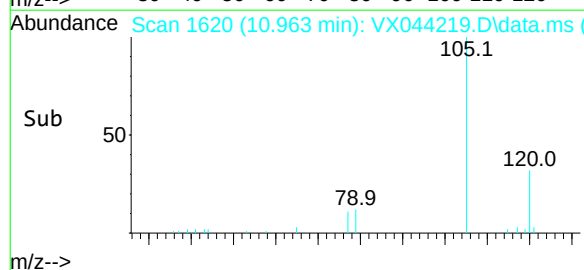
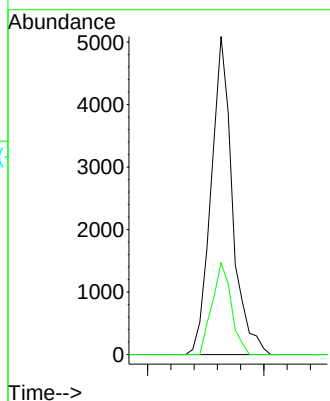
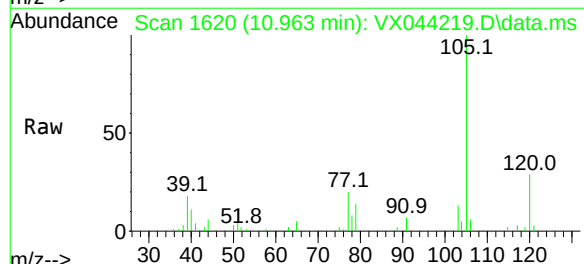
Acq: 11 Dec 2024 10:41

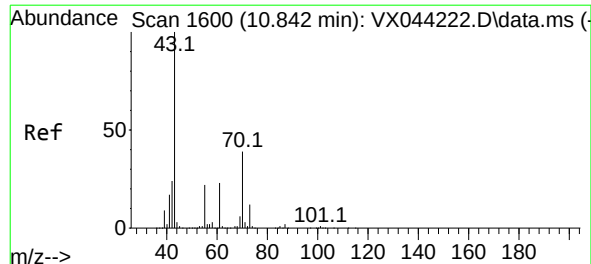
Tgt Ion:105 Resp: 6474

Ion Ratio Lower Upper

105 100

120 26.0 13.1 39.3





#74

N-amy1 acetate

Concen: 0.811 ug/l

RT: 10.847 min Scan# 1600

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

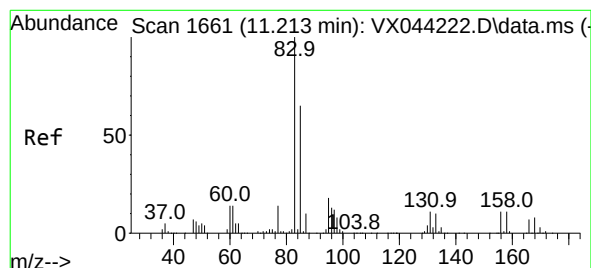
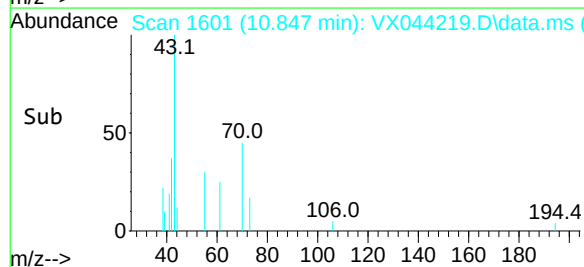
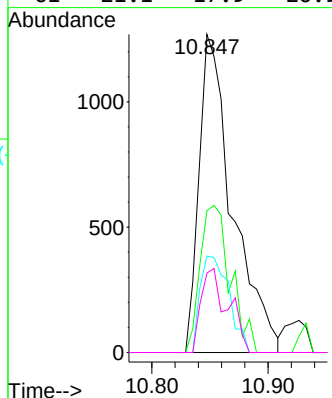
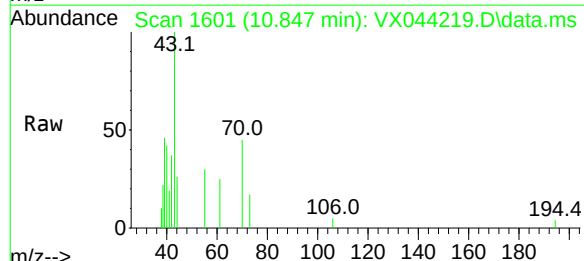
ClientSampleId :

VSTDICC001

Tgt Ion:	43	Resp:	2536
Ion	Ratio	Lower	Upper
43	100		
70	41.9	31.9	47.9
55	26.0	17.9	26.9
61	21.1	17.9	26.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#75

1,1,2,2-Tetrachloroethane

Concen: 1.061 ug/l

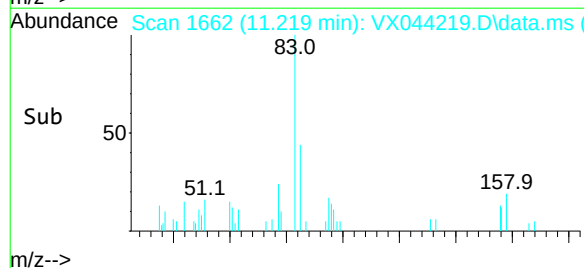
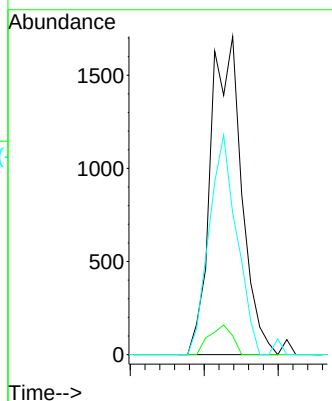
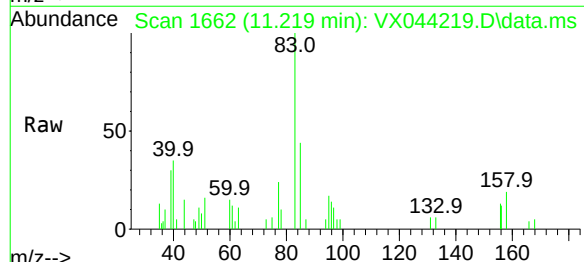
RT: 11.219 min Scan# 1662

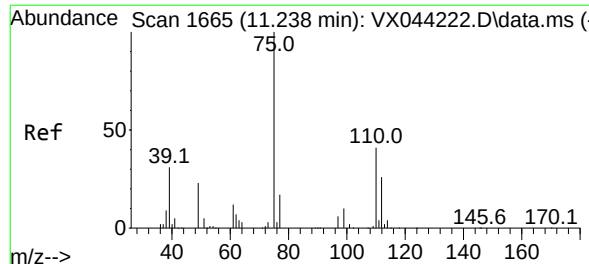
Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Tgt Ion:	83	Resp:	2491
Ion	Ratio	Lower	Upper
83	100		
131	6.9	5.1	15.4
85	61.8	32.5	97.4





#76

1,2,3-Trichloropropane

Concen: 1.121 ug/l m

RT: 11.244 min Scan# 16

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 75 Resp: 2248

Ion Ratio Lower Upper

75 100

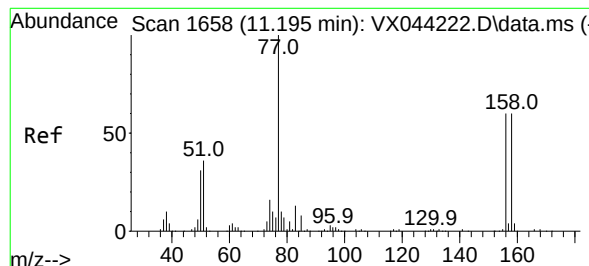
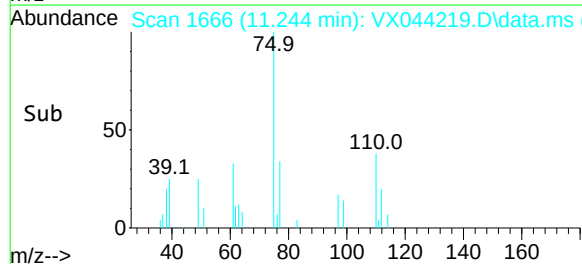
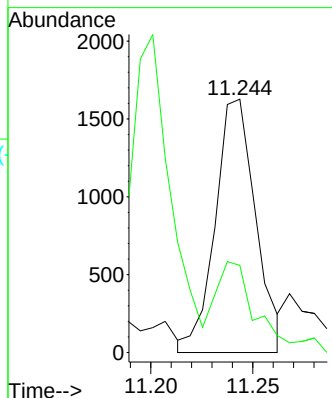
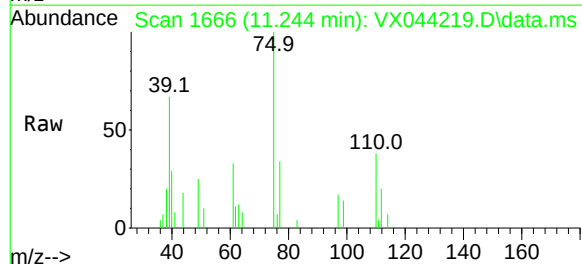
77 37.4 20.9 62.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#77

Bromobenzene

Concen: 1.087 ug/l

RT: 11.201 min Scan# 1659

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

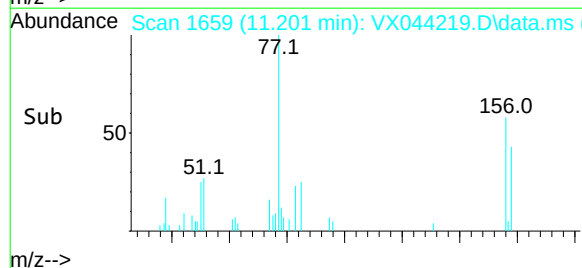
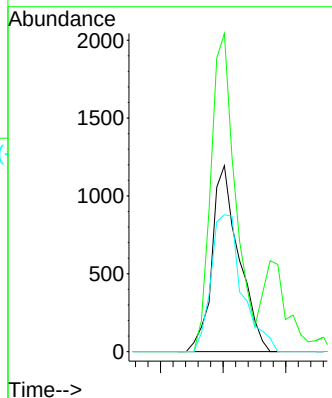
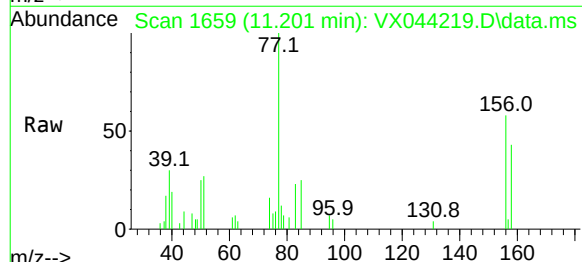
Tgt Ion:156 Resp: 1783

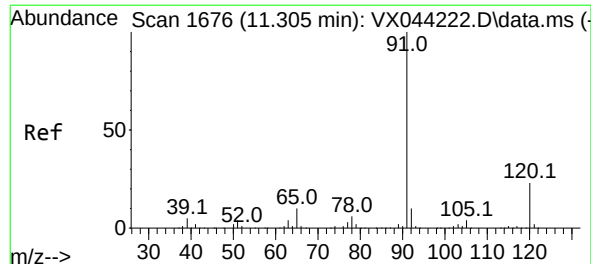
Ion Ratio Lower Upper

156 100

77 155.1 82.6 247.8

158 85.2 48.8 146.4





#78

n-propylbenzene

Concen: 0.884 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 6606

Ion Ratio Lower Upper

91 100

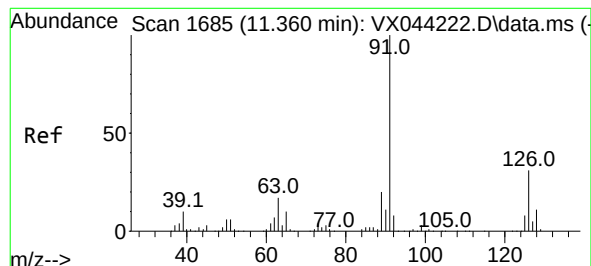
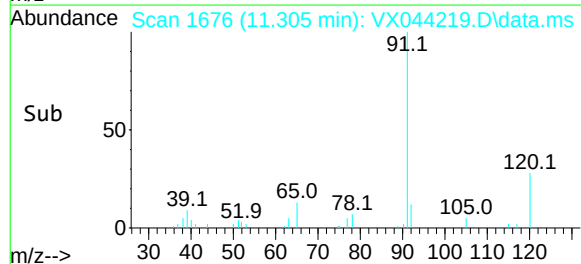
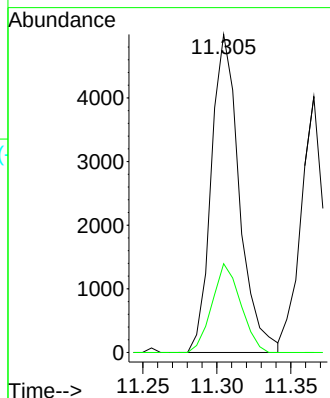
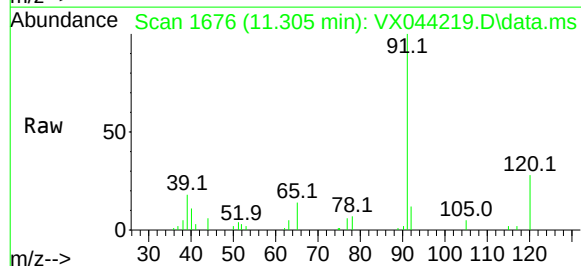
120 28.4 11.0 33.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#79

2-Chlorotoluene

Concen: 1.075 ug/l

RT: 11.366 min Scan# 1686

Delta R.T. 0.006 min

Lab File: VX044219.D

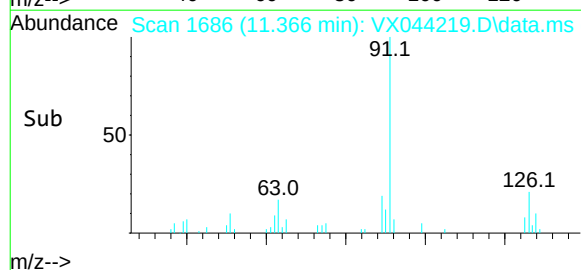
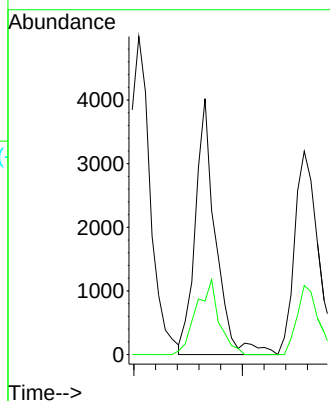
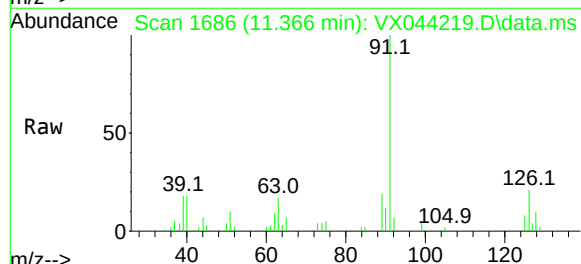
Acq: 11 Dec 2024 10:41

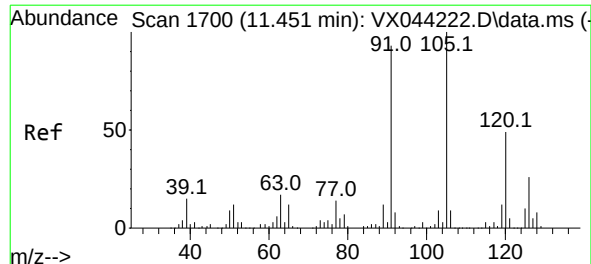
Tgt Ion: 91 Resp: 5194

Ion Ratio Lower Upper

91 100

126 33.2 16.4 49.1





#80

1,3,5-Trimethylbenzene

Concen: 0.966 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 105 Resp: 5417

Ion Ratio Lower Upper

105 100

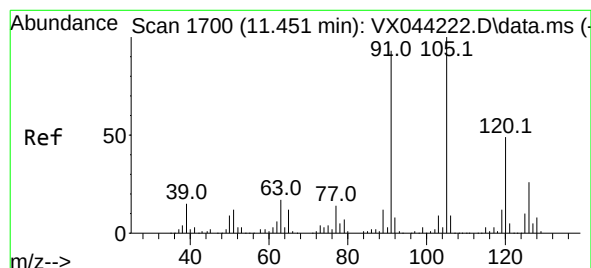
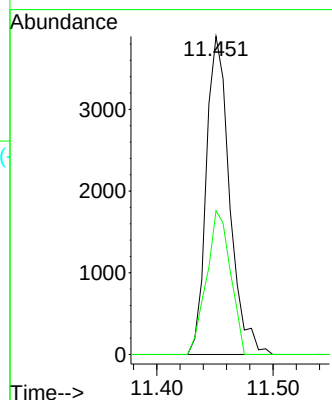
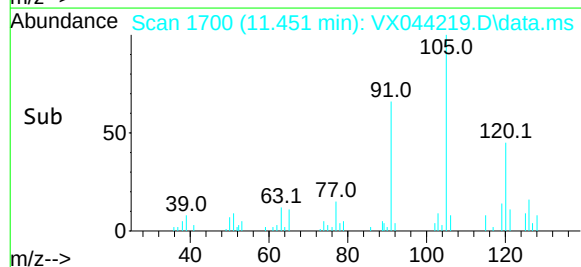
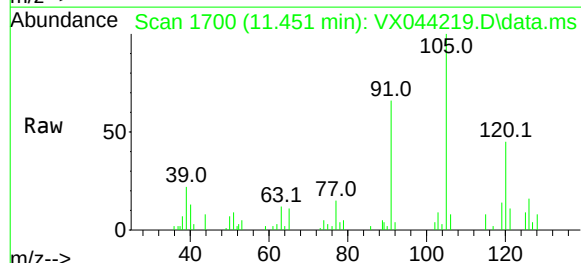
120 46.2 23.8 71.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#82

4-Chlorotoluene

Concen: 0.978 ug/l

RT: 11.457 min Scan# 1701

Delta R.T. 0.006 min

Lab File: VX044219.D

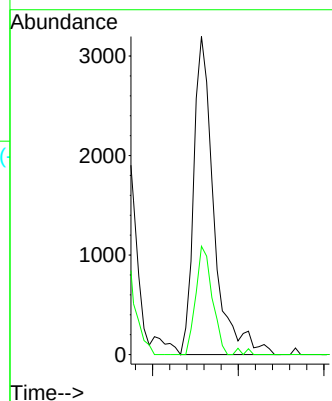
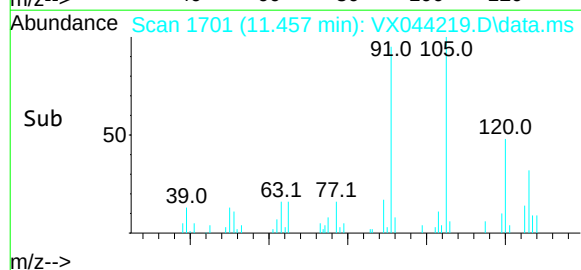
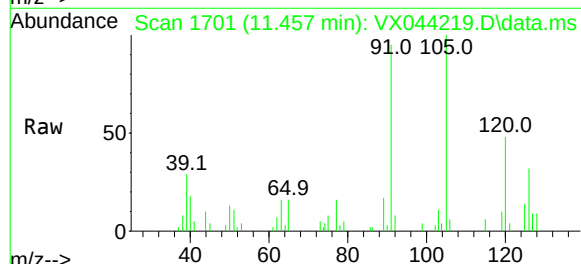
Acq: 11 Dec 2024 10:41

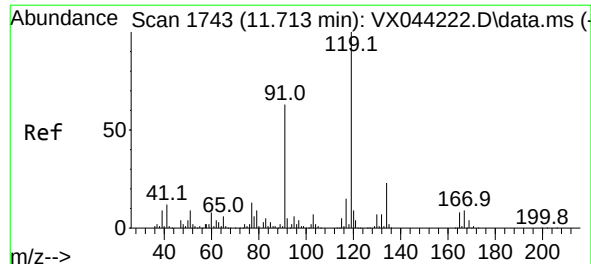
Tgt Ion: 91 Resp: 5236

Ion Ratio Lower Upper

91 100

126 27.7 14.5 43.5





#83

tert-Butylbenzene

Concen: 1.011 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

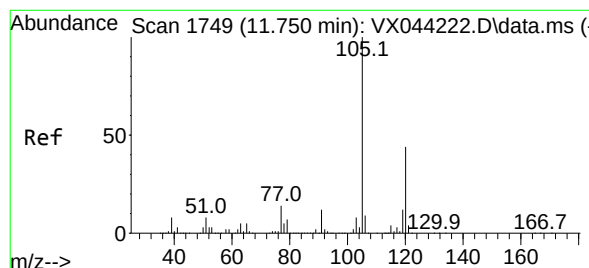
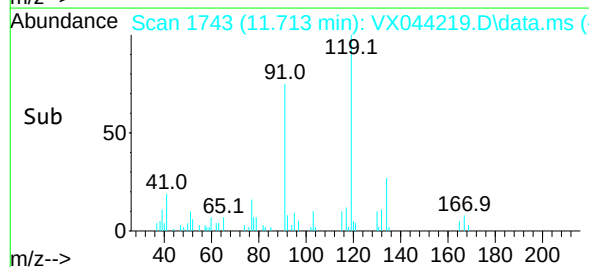
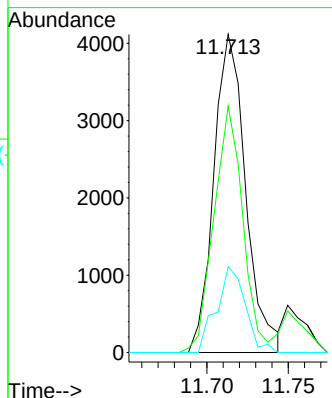
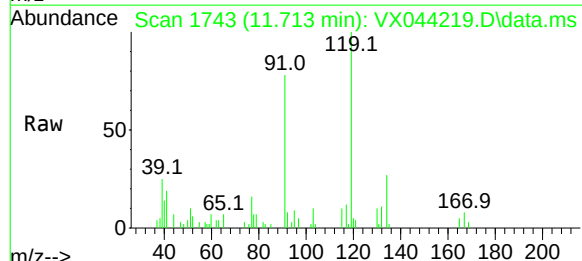
VSTDICC001

Tgt	Ion	119	Resp:	5601
Ion	Ratio	Lower	Upper	
119	100			
91	70.2	30.9	92.5	
134	24.5	11.5	34.4	

**Manual Integrations
APPROVED**

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#84

1,2,4-Trimethylbenzene

Concen: 0.866 ug/l

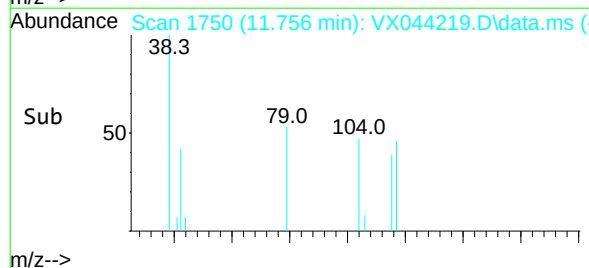
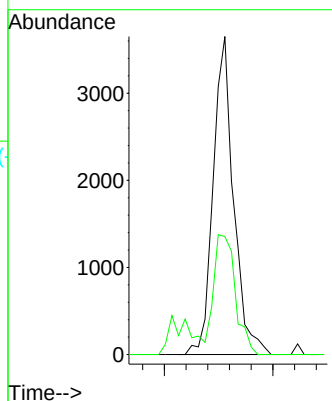
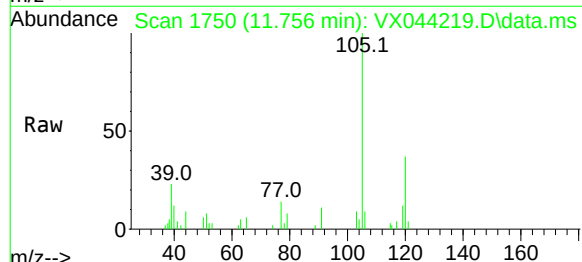
RT: 11.756 min Scan# 1750

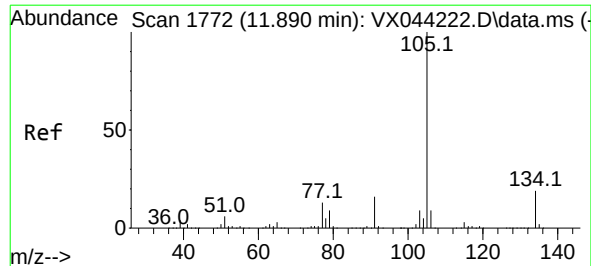
Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Tgt	Ion	105	Resp:	4769
Ion	Ratio	Lower	Upper	
105	100			
120	40.0	21.7	65.1	





#85

sec-Butylbenzene

Concen: 0.966 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion:105 Resp: 6500

Ion Ratio Lower Upper

105 100

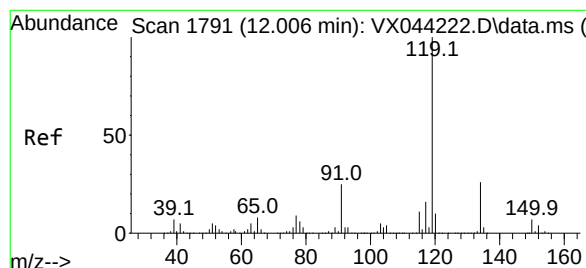
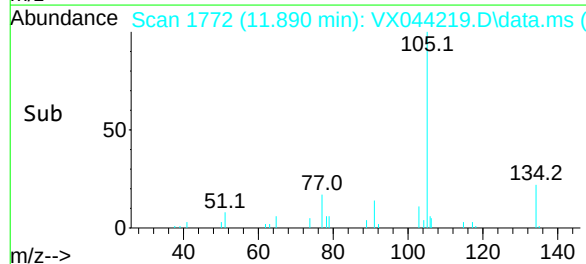
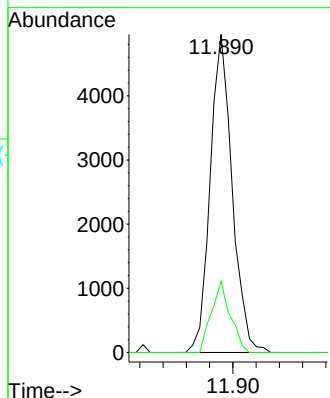
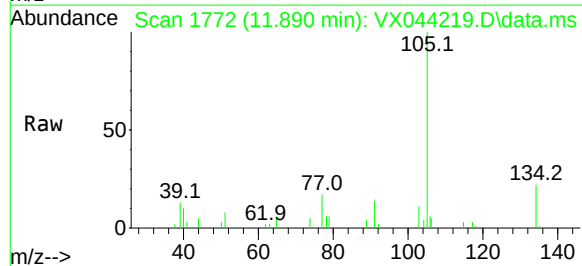
134 19.3 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#86

p-Isopropyltoluene

Concen: 0.930 ug/l

RT: 12.012 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

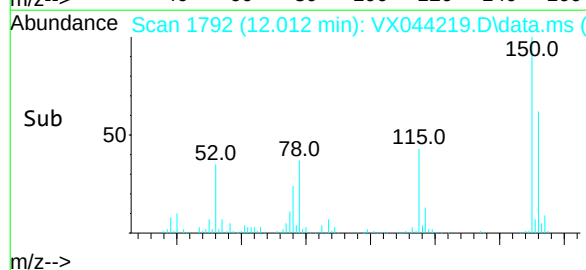
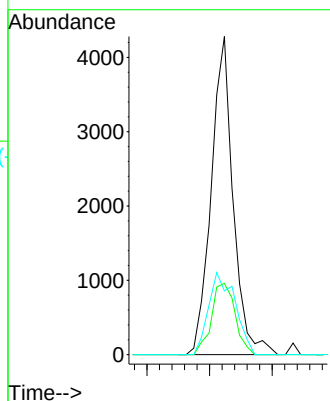
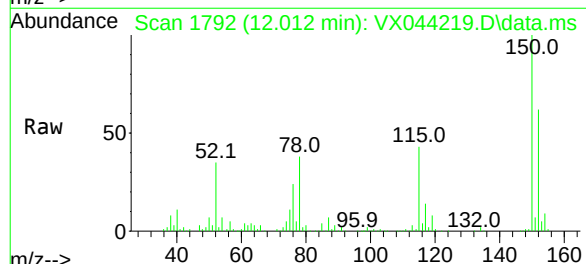
Tgt Ion:119 Resp: 5210

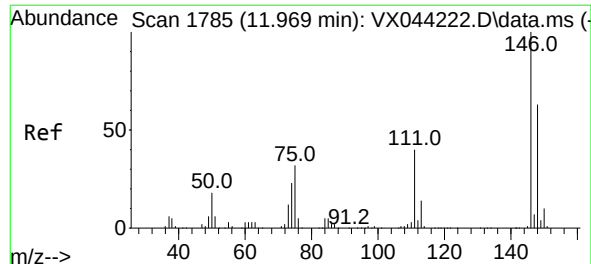
Ion Ratio Lower Upper

119 100

134 24.2 12.8 38.4

91 31.2 13.0 39.0





#87

1,3-Dichlorobenzene

Concen: 0.937 ug/l

RT: 11.975 min Scan# 1785

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

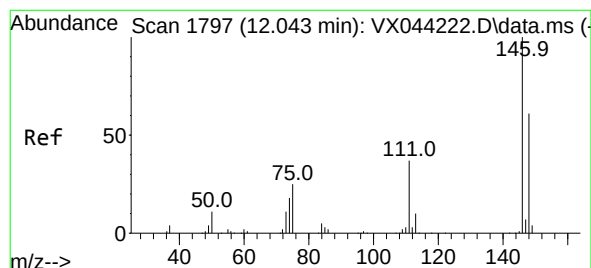
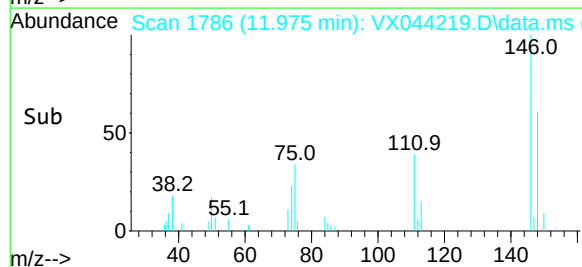
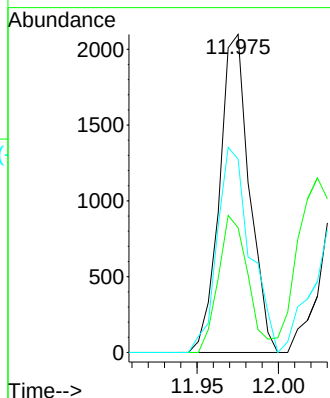
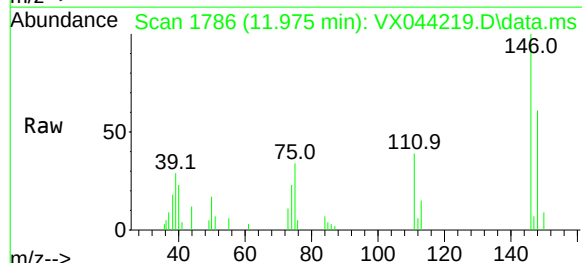
ClientSampleId :

VSTDIC001

Tgt Ion:	146	Resp:	2684
Ion Ratio	Lower	Upper	
146	100		
111	42.5	21.4	64.2
148	71.6	31.7	95.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#88

1,4-Dichlorobenzene

Concen: 1.087 ug/l m

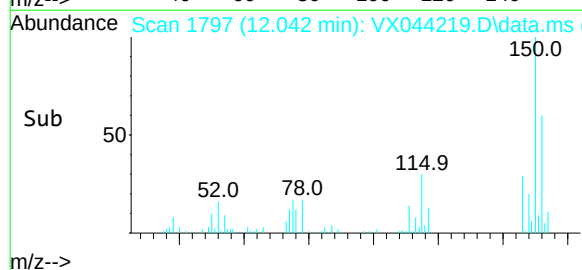
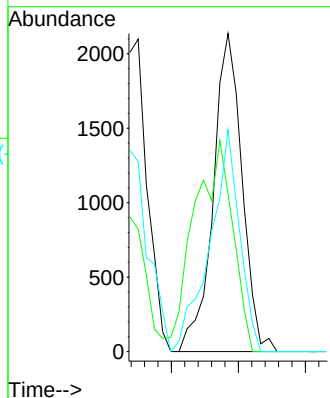
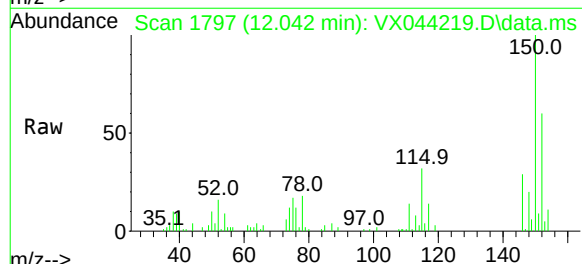
RT: 12.042 min Scan# 1797

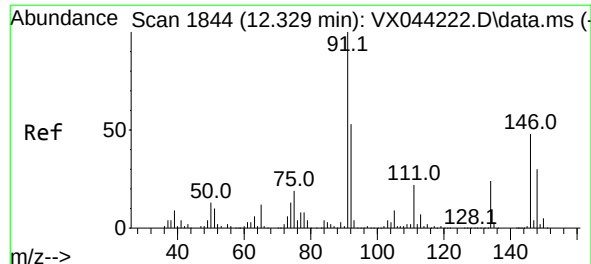
Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Tgt Ion:	146	Resp:	3200
Ion Ratio	Lower	Upper	
146	100		
111	35.7	21.0	63.0
148	60.1	32.3	96.8





#89

n-Butylbenzene

Concen: 0.844 ug/l

RT: 12.335 min Scan# 1844

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

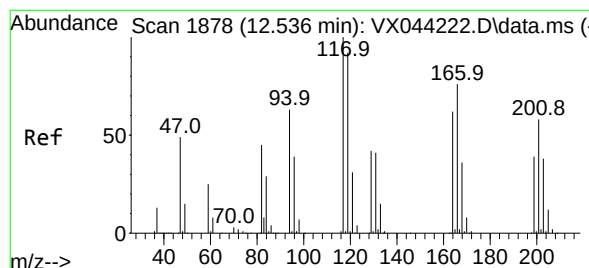
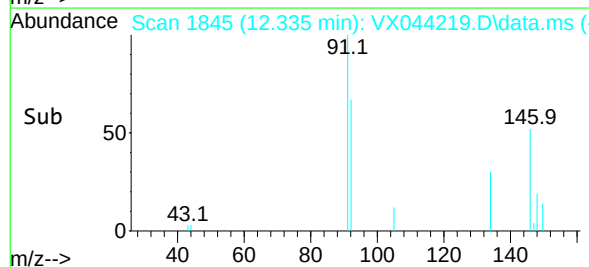
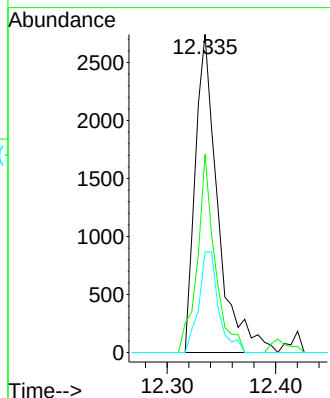
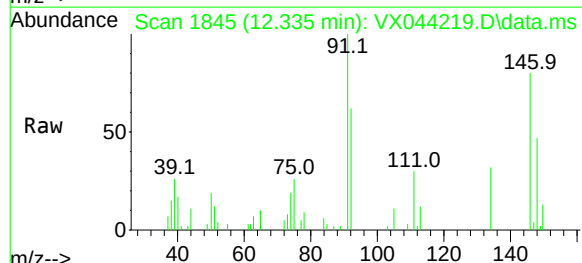
ClientSampleId :

VSTDICC001

Tgt Ion:	91	Resp:	3973
Ion	Ratio	Lower	Upper
91	100		
92	48.5	26.6	79.7
134	27.8	12.6	37.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#90

Hexachloroethane

Concen: 0.773 ug/l

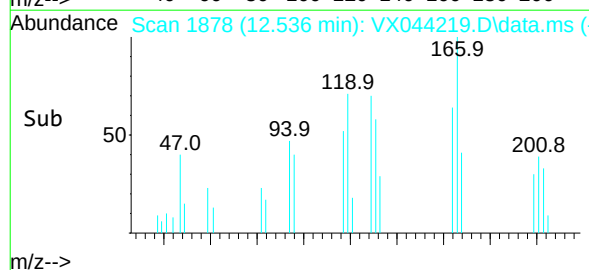
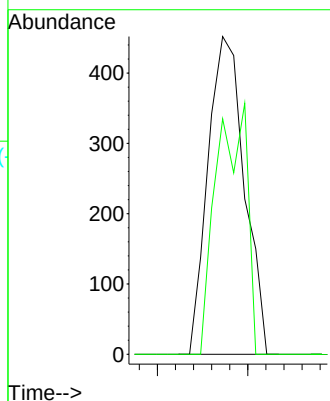
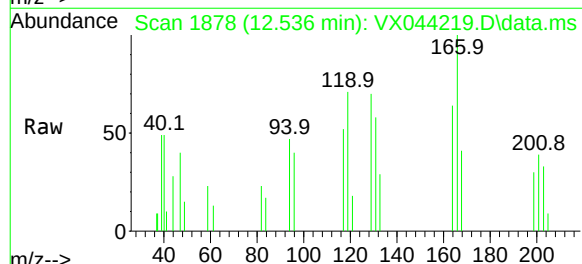
RT: 12.536 min Scan# 1878

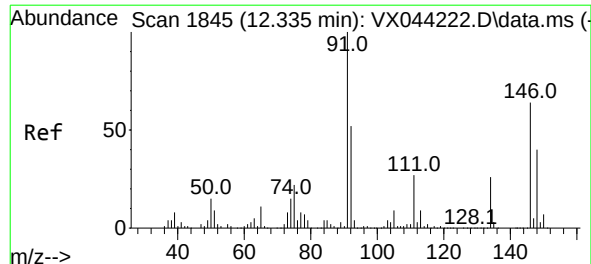
Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Tgt Ion:	117	Resp:	632
Ion	Ratio	Lower	Upper
117	100		
201	66.9	31.4	94.2





#91

1,2-Dichlorobenzene

Concen: 1.036 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

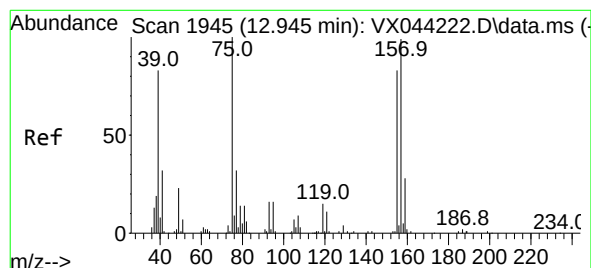
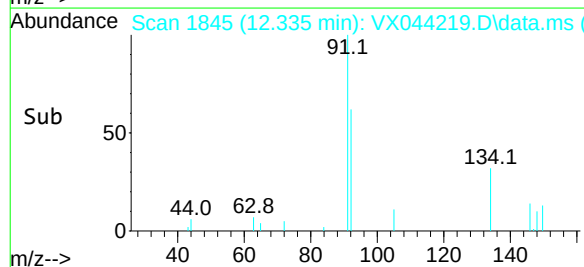
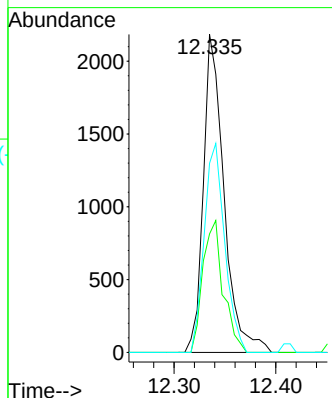
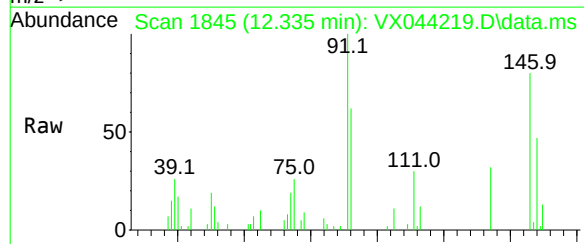
ClientSampleId :

VSTDIC001

Tgt Ion:	146	Resp:	3082
Ion	Ratio	Lower	Upper
146	100		
111	41.0	21.4	64.3
148	65.4	31.6	95.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.860 ug/l

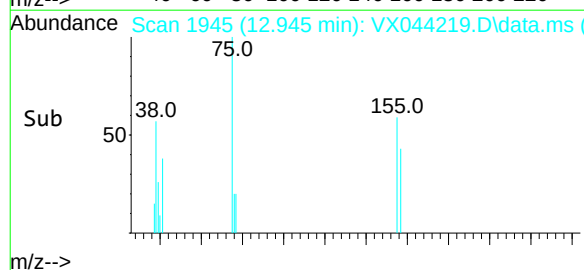
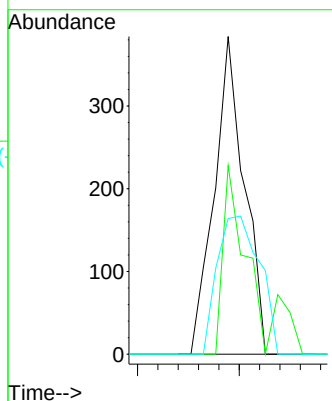
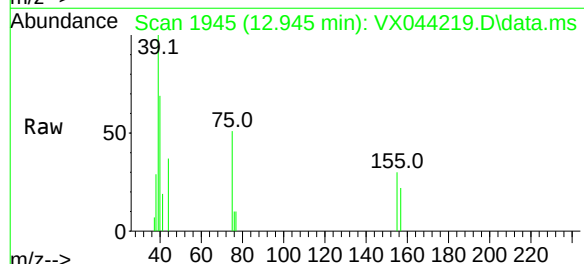
RT: 12.945 min Scan# 1945

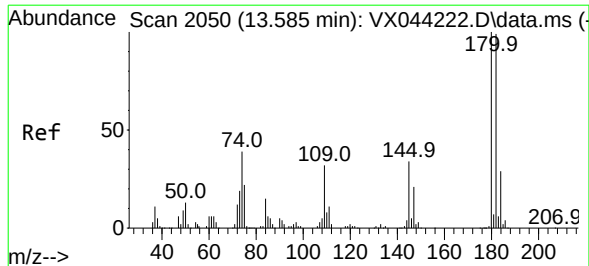
Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Tgt Ion:	75	Resp:	392
Ion	Ratio	Lower	Upper
75	100		
155	54.6	38.1	114.3
157	61.5	47.2	141.6





#93

1,2,4-Trichlorobenzene

Concen: 0.835 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

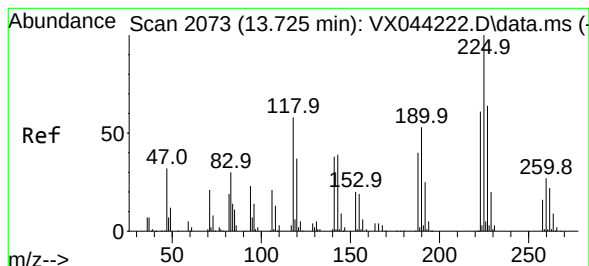
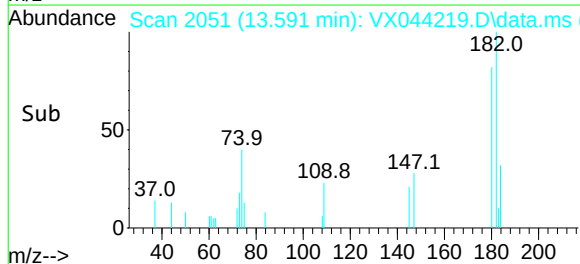
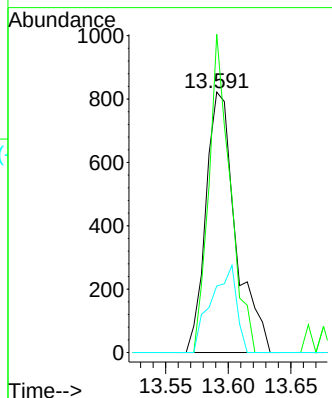
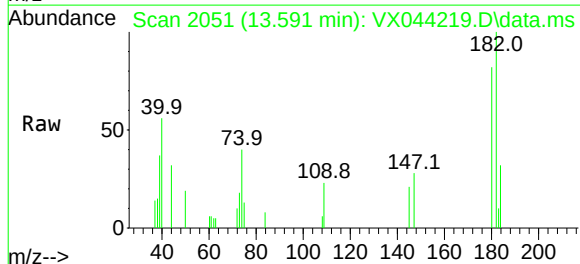
ClientSampleId :

VSTDIC001

Tgt Ion:	180	Resp:	1361
Ion Ratio	Lower	Upper	
180	100		
182	88.0	48.0	144.2
145	28.4	16.6	49.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#94

Hexachlorobutadiene

Concen: 1.051 ug/l

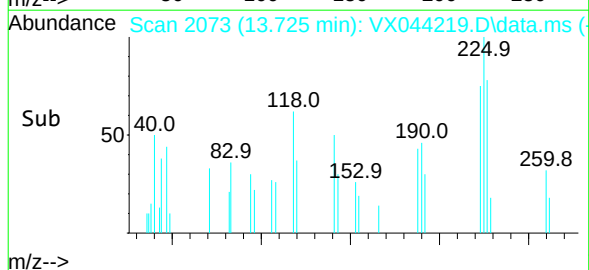
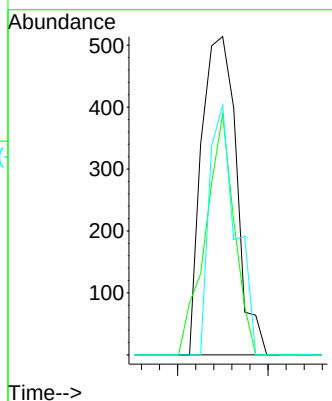
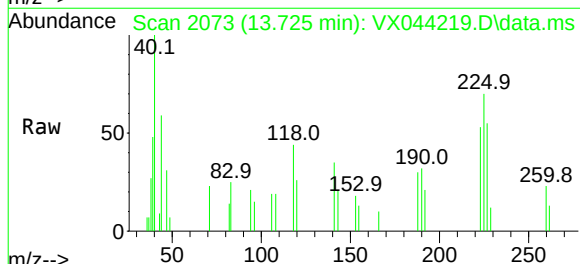
RT: 13.725 min Scan# 2073

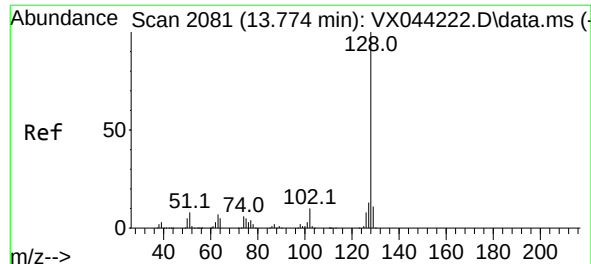
Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Tgt Ion:	225	Resp:	689
Ion Ratio	Lower	Upper	
225	100		
223	62.4	30.8	92.4
227	59.4	32.1	96.3





#95

Naphthalene

Concen: 0.812 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

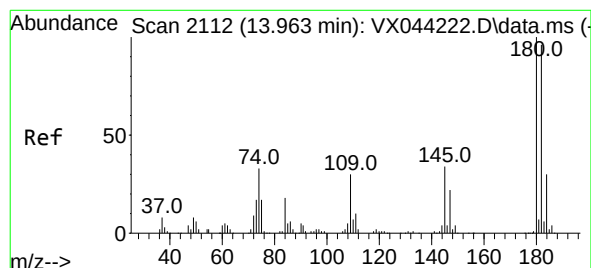
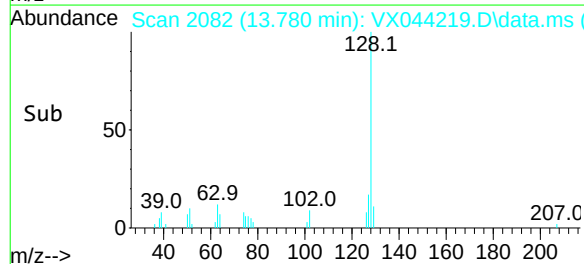
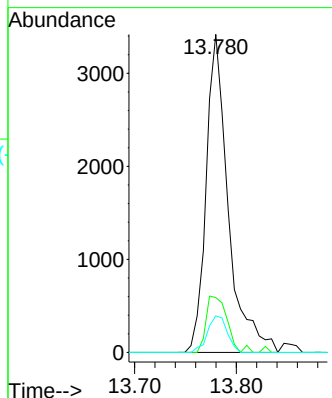
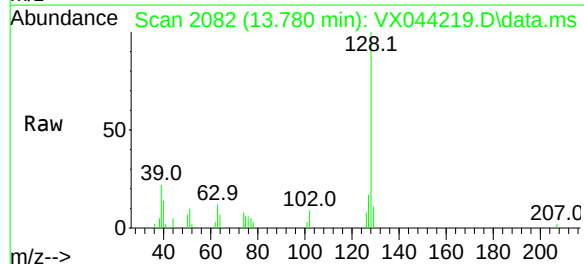
ClientSampleId :

VSTDICC001

Tgt Ion:	128	Resp:	5167
Ion	Ratio	Lower	Upper
128	100		
127	16.8	10.5	15.7
129	10.2	9.0	13.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#96

1,2,3-Trichlorobenzene

Concen: 0.873 ug/l

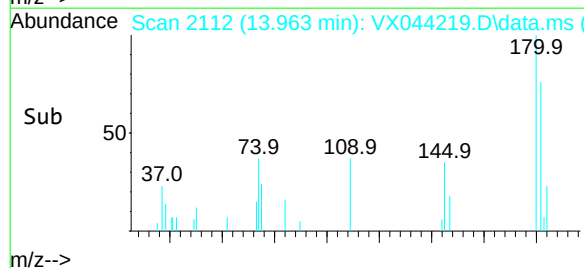
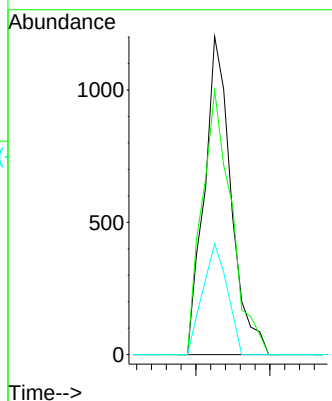
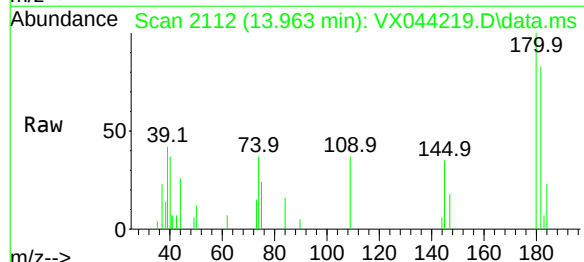
RT: 13.963 min Scan# 2112

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Tgt Ion:	180	Resp:	1509
Ion	Ratio	Lower	Upper
180	100		
182	91.3	48.0	144.0
145	31.9	17.7	53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044220.D
 Acq On : 11 Dec 2024 11:27
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Quant Time: Dec 12 04:13:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:11:59 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
 Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	139609	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	258881	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	217783	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	95175	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	13043	5.328	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.660%#		
35) Dibromofluoromethane	5.385	113	9145	5.100	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.200%#		
50) Toluene-d8	8.647	98	29732	4.915	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	9.840%#		
62) 4-Bromofluorobenzene	11.079	95	10101	4.779	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.560%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	10452	4.842	ug/l	91
3) Chloromethane	1.294	50	10429	5.052	ug/l	95
4) Vinyl Chloride	1.374	62	11031	5.129	ug/l	98
5) Bromomethane	1.593	94	8237	5.399	ug/l	92
6) Chloroethane	1.660	64	7253	5.416	ug/l	96
7) Trichlorofluoromethane	1.868	101	21207	5.037	ug/l	91
8) Diethyl Ether	2.136	74	7199	5.009	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	8766	5.145	ug/l	97
10) Methyl Iodide	2.447	142	11066	4.928	ug/l	97
11) Tert butyl alcohol	2.995	59	7159m	20.785	ug/l	
12) 1,1-Dichloroethene	2.306	96	7822	4.999	ug/l	95
13) Acrolein	2.239	56	12521	25.073	ug/l	100
14) Allyl chloride	2.654	41	12490	4.792	ug/l	94
15) Acrylonitrile	3.069	53	23276	24.357	ug/l	99
16) Acetone	2.392	43	24645	24.696	ug/l	93
17) Carbon Disulfide	2.495	76	12169	4.091	ug/l	99
18) Methyl Acetate	2.709	43	12412	4.824	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	30546	5.002	ug/l	94
20) Methylene Chloride	2.782	84	9466	5.050	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	7768	4.671	ug/l	97
22) Diisopropyl ether	3.764	45	29518	5.029	ug/l #	73
23) Vinyl Acetate	3.721	43	109670	22.983	ug/l	96
24) 1,1-Dichloroethane	3.605	63	16370	5.004	ug/l	96
25) 2-Butanone	4.574	43	34245	24.138	ug/l	97
26) 2,2-Dichloropropane	4.471	77	12514	4.708	ug/l	99
27) cis-1,2-Dichloroethene	4.495	96	10292	4.873	ug/l	97
28) Bromochloromethane	4.897	49	8049	5.017	ug/l #	93
29) Tetrahydrofuran	5.019	42	24307	26.693	ug/l	94
30) Chloroform	5.093	83	18319	4.984	ug/l	93
31) Cyclohexane	5.464	56	12995	4.919	ug/l	89
32) 1,1,1-Trichloroethane	5.373	97	14231	4.664	ug/l	96
36) 1,1-Dichloropropene	5.690	75	11455	4.942	ug/l	94
37) Ethyl Acetate	4.727	43	13265	4.630	ug/l	97
38) Carbon Tetrachloride	5.666	117	11476	4.599	ug/l	96
39) Methylcyclohexane	7.373	83	13019	4.699	ug/l #	85
40) Benzene	6.037	78	35018	4.976	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044220.D
Acq On : 11 Dec 2024 11:27
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.946	41	7585	4.986	ug/l	93
42) 1,2-Dichloroethane	6.092	62	14419	4.974	ug/l	99
43) Isopropyl Acetate	6.354	43	22098	4.935	ug/l	98
44) Trichloroethene	7.123	130	8405	4.790	ug/l	100
45) 1,2-Dichloropropane	7.434	63	8932	4.968	ug/l	94
46) Dibromomethane	7.586	93	6915	4.958	ug/l	99
47) Bromodichloromethane	7.824	83	10646	4.420	ug/l #	98
48) Methyl methacrylate	7.702	41	9586	4.410	ug/l	97
49) 1,4-Dioxane	7.671	88	3545m	95.429	ug/l	
51) 4-Methyl-2-Pentanone	8.574	43	71285	24.759	ug/l	98
52) Toluene	8.720	92	21486	4.862	ug/l	99
53) t-1,3-Dichloropropene	8.982	75	9232	4.665	ug/l	100
54) cis-1,3-Dichloropropene	8.372	75	11404	4.348	ug/l	99
55) 1,1,2-Trichloroethane	9.153	97	8590	4.893	ug/l	97
56) Ethyl methacrylate	9.122	69	11854	4.277	ug/l #	89
57) 1,3-Dichloropropane	9.311	76	15352	5.024	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.244	63	34738	24.852	ug/l	99
59) 2-Hexanone	9.433	43	50003	23.994	ug/l	96
60) Dibromochloromethane	9.519	129	6411	4.738	ug/l	98
61) 1,2-Dibromoethane	9.610	107	8330	4.662	ug/l	97
64) Tetrachloroethene	9.275	164	7710	5.334	ug/l #	87
65) Chlorobenzene	10.079	112	23268	4.986	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	6647	4.432	ug/l	94
67) Ethyl Benzene	10.195	91	39326	4.877	ug/l	97
68) m/p-Xylenes	10.299	106	28758	9.720	ug/l	98
69) o-Xylene	10.640	106	14864	4.965	ug/l	97
70) Styrene	10.659	104	22191	4.624	ug/l	98
71) Bromoform	10.799	173	3775	5.118	ug/l #	98
73) Isopropylbenzene	10.963	105	37843	5.194	ug/l	98
74) N-amyl acetate	10.842	43	15418	4.579	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	12848	5.077	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	10236m	4.740	ug/l	
77) Bromobenzene	11.201	156	8892	5.033	ug/l	99
78) n-propylbenzene	11.305	91	40574	5.038	ug/l	96
79) 2-Chlorotoluene	11.366	91	27096	5.203	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	30665	5.075	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.024	75	2249	8.273	ug/l #	62
82) 4-Chlorotoluene	11.457	91	29039	5.035	ug/l	99
83) tert-Butylbenzene	11.713	119	29283	4.904	ug/l	95
84) 1,2,4-Trimethylbenzene	11.750	105	30970	5.219	ug/l	99
85) sec-Butylbenzene	11.890	105	35670	4.921	ug/l	98
86) p-Isopropyltoluene	12.006	119	29132	4.828	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	15553	5.039	ug/l	96
88) 1,4-Dichlorobenzene	12.043	146	15609	4.920	ug/l	95
89) n-Butylbenzene	12.335	91	22719	4.478	ug/l	98
90) Hexachloroethane	12.536	117	3765	4.275	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	15858	4.949	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	2154	4.385	ug/l	81
93) 1,2,4-Trichlorobenzene	13.591	180	7867	4.478	ug/l	96
94) Hexachlorobutadiene	13.725	225	3321	4.700	ug/l	93
95) Naphthalene	13.780	128	31842	4.643	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	8422	4.520	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044220.D
Acq On : 11 Dec 2024 11:27
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

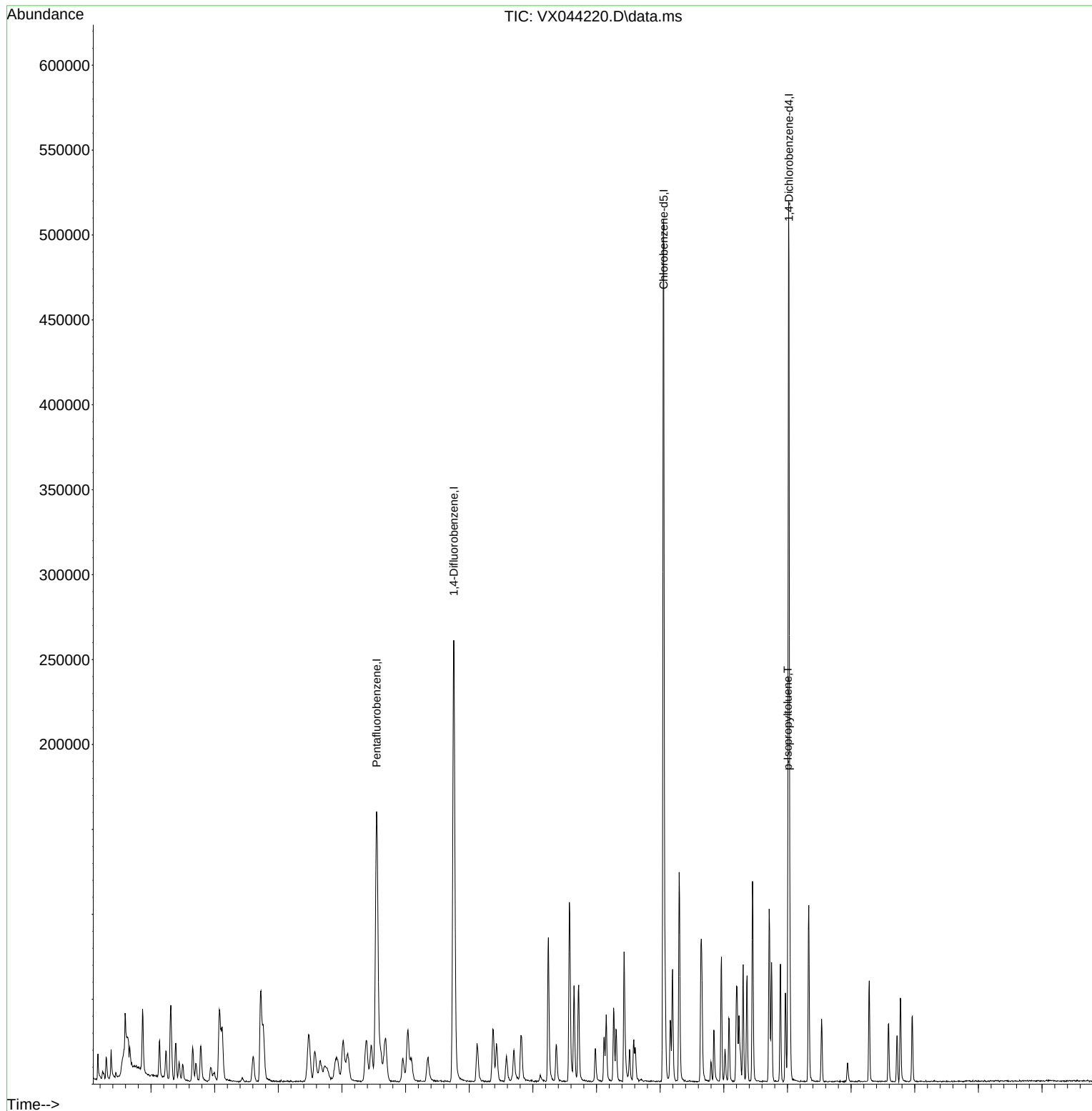
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Data File : VX044220.D
Acq On : 11 Dec 2024 11:27
Operator : JC/MD
Sample : VSTDIC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

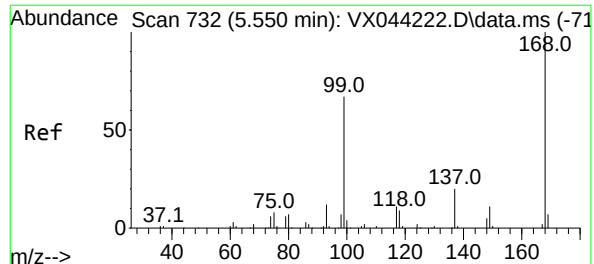
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.544 min Scan# 73

Delta R.T. -0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:168 Resp: 139609

Ion Ratio Lower Upper

168 100

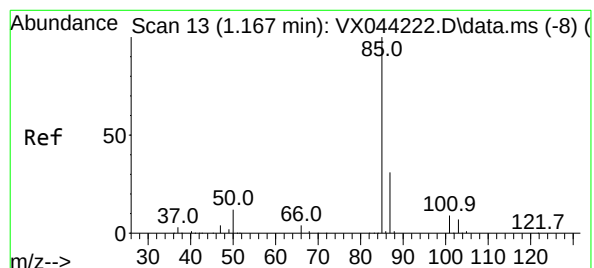
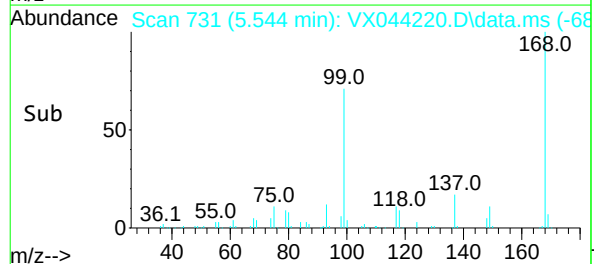
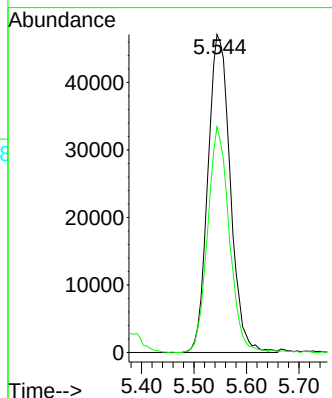
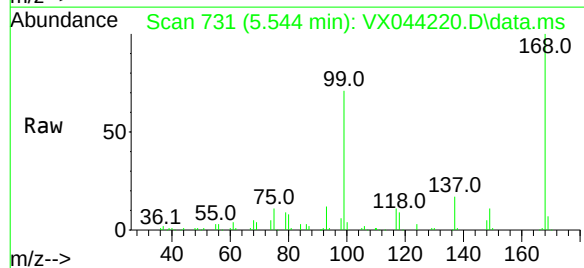
99 71.0 53.4 80.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#2

Dichlorodifluoromethane

Concen: 4.842 ug/l

RT: 1.166 min Scan# 13

Delta R.T. -0.000 min

Lab File: VX044220.D

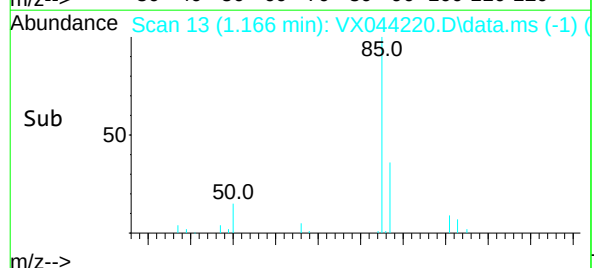
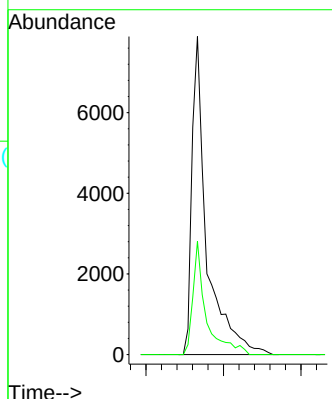
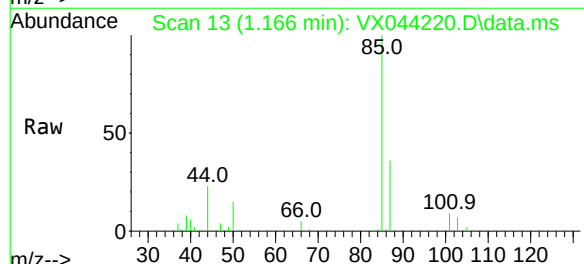
Acq: 11 Dec 2024 11:27

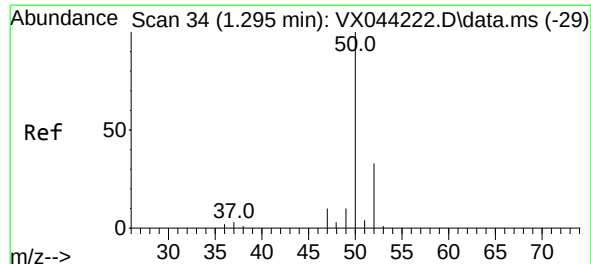
Tgt Ion: 85 Resp: 10452

Ion Ratio Lower Upper

85 100

87 35.6 15.4 46.4





#3

Chloromethane

Concen: 5.052 ug/l

RT: 1.294 min Scan# 34

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 50 Resp: 10429

Ion Ratio Lower Upper

50 100

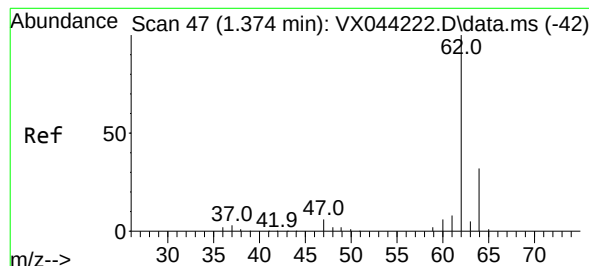
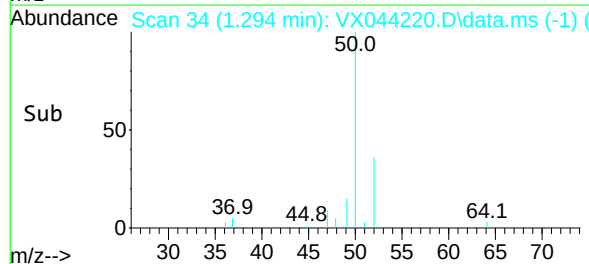
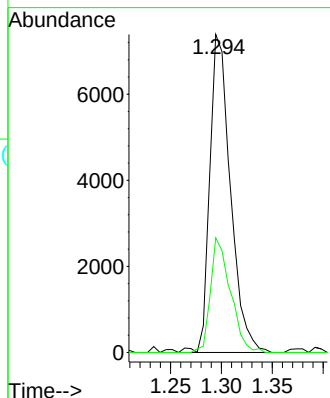
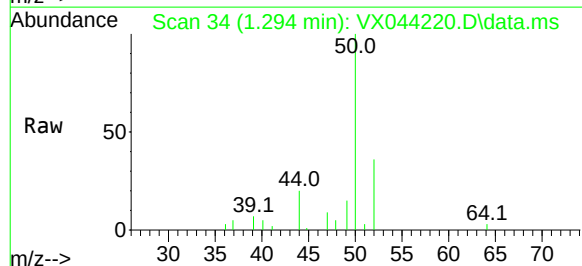
52 36.0 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#4

Vinyl Chloride

Concen: 5.129 ug/l

RT: 1.374 min Scan# 47

Delta R.T. -0.000 min

Lab File: VX044220.D

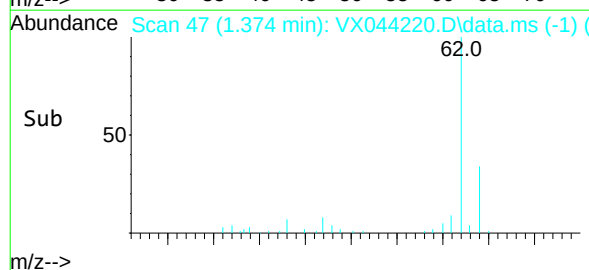
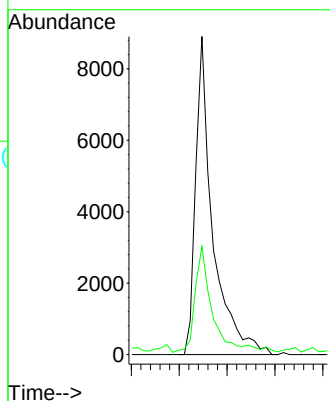
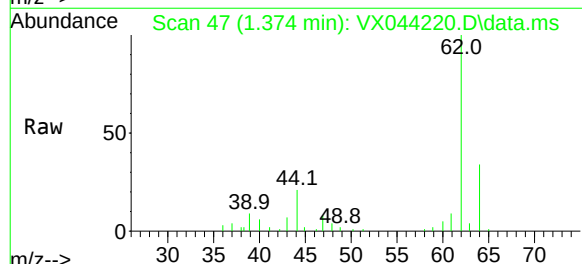
Acq: 11 Dec 2024 11:27

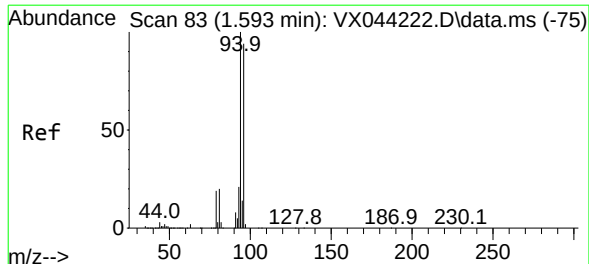
Tgt Ion: 62 Resp: 11031

Ion Ratio Lower Upper

62 100

64 33.1 25.7 38.5



#5
Bromomethane

Concen: 5.399 ug/l

RT: 1.593 min Scan# 83

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 94 Resp: 8237

Ion Ratio Lower Upper

94 100

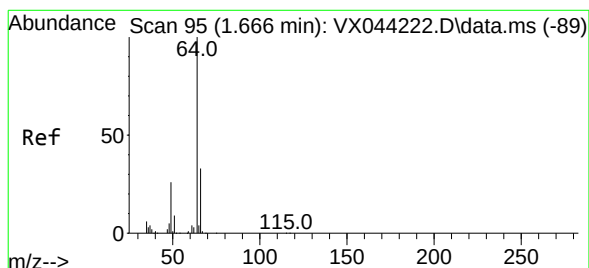
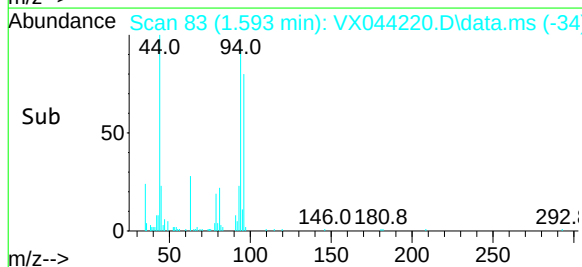
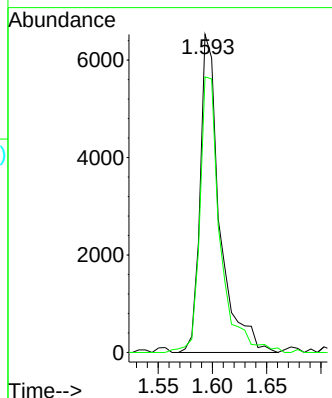
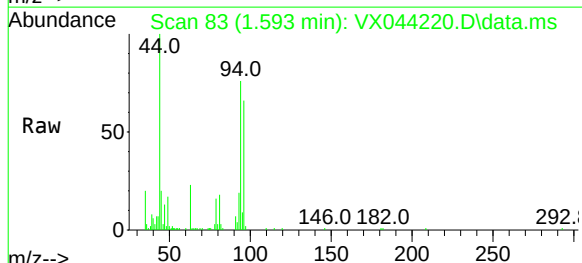
96 85.5 74.9 112.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#6

Chloroethane

Concen: 5.416 ug/l

RT: 1.660 min Scan# 94

Delta R.T. -0.006 min

Lab File: VX044220.D

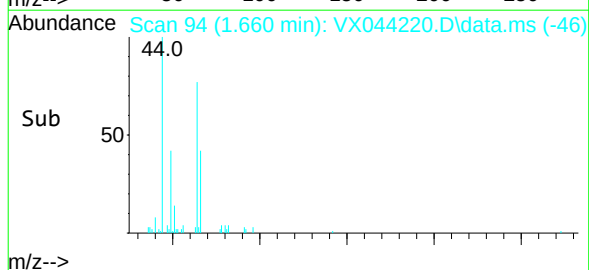
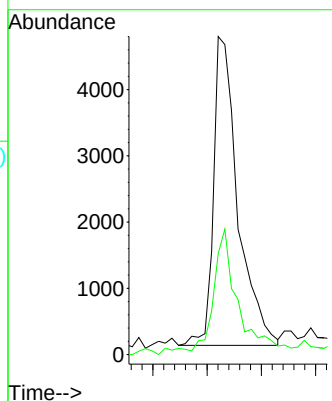
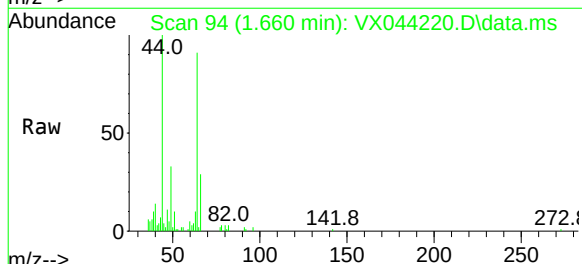
Acq: 11 Dec 2024 11:27

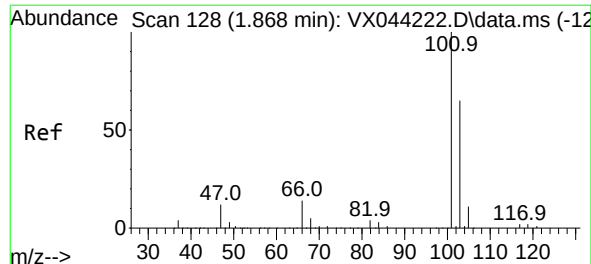
Tgt Ion: 64 Resp: 7253

Ion Ratio Lower Upper

64 100

66 30.7 26.6 39.8





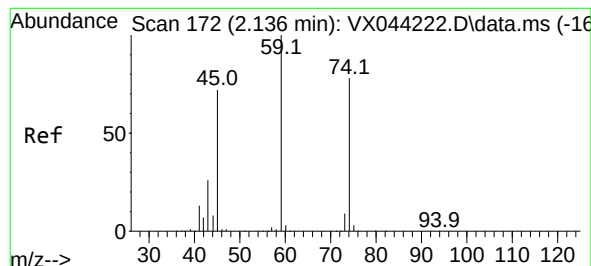
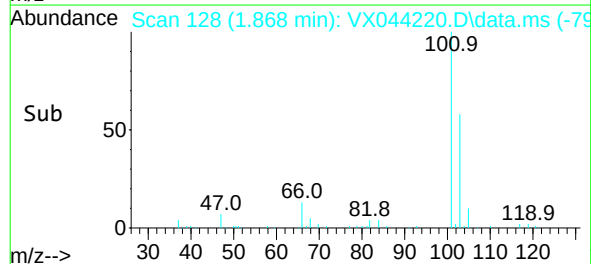
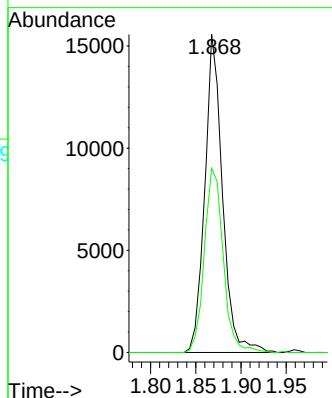
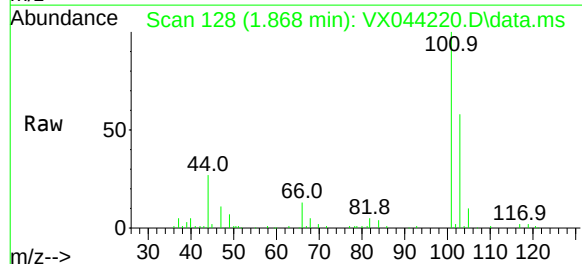
#7
Trichlorofluoromethane
Concen: 5.037 ug/l
RT: 1.868 min Scan# 128
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 101 Resp: 21207
Ion Ratio Lower Upper
101 100
103 57.9 51.8 77.8

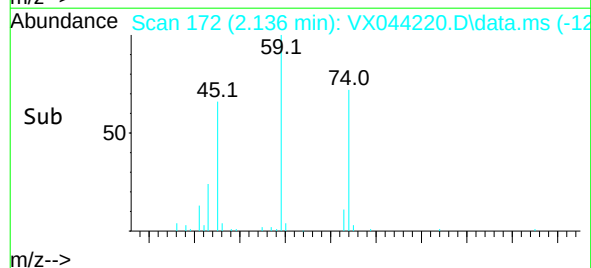
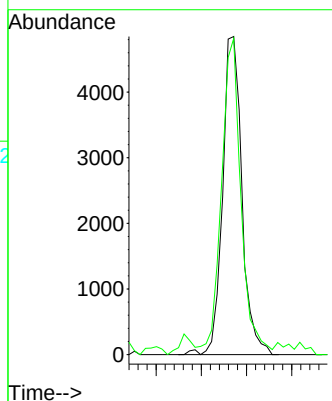
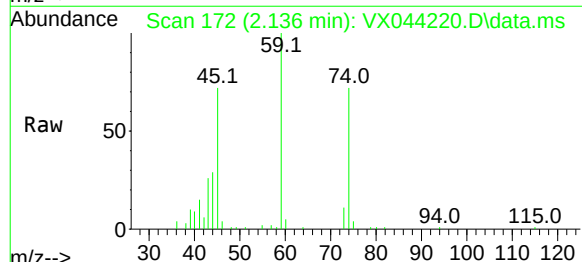
Manual Integrations
APPROVED

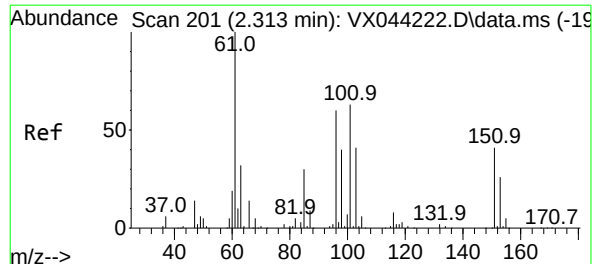
Reviewed By : John Carlone 12/12/2024
Supervised By : Mahesh Dadoda 12/12/2024



#8
Diethyl Ether
Concen: 5.009 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 74 Resp: 7199
Ion Ratio Lower Upper
74 100
45 97.0 48.4 145.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.145 ug/l

RT: 2.313 min Scan# 201

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

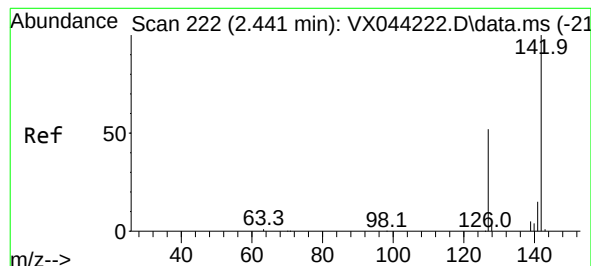
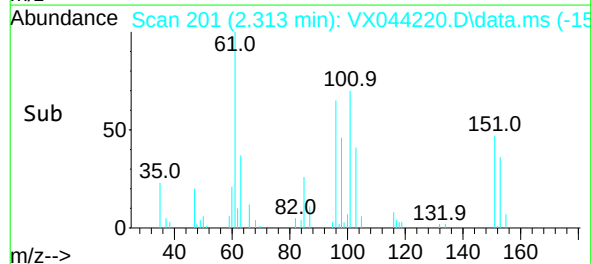
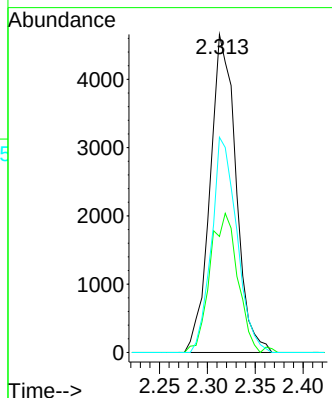
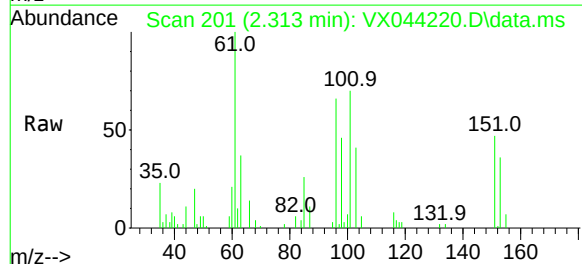
ClientSampleId :

VSTDICC005

Tgt Ion:	101	Resp:	8766
Ion	Ratio	Lower	Upper
101	100		
85	46.7	38.5	57.7
151	66.2	55.8	83.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#10

Methyl Iodide

Concen: 4.928 ug/l

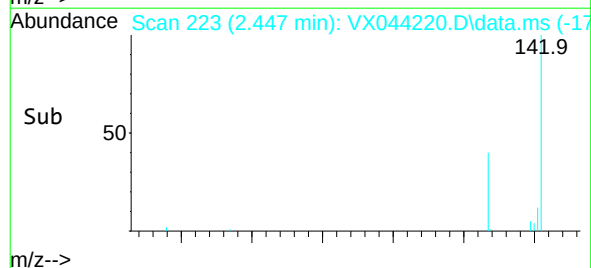
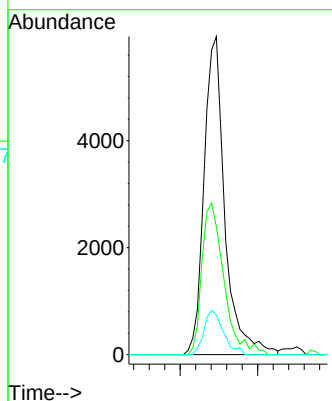
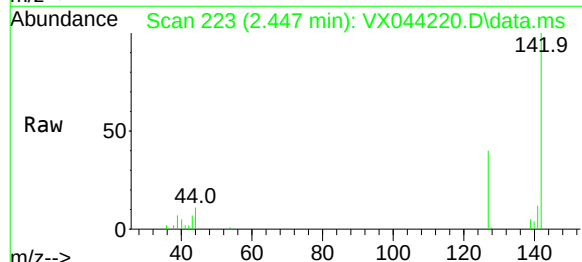
RT: 2.447 min Scan# 223

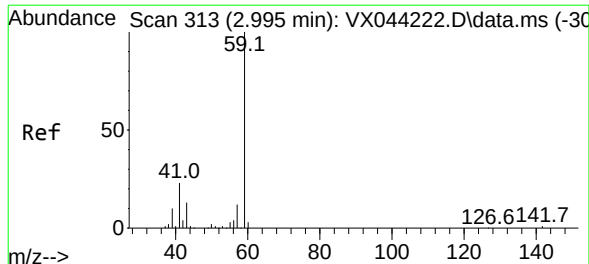
Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Tgt Ion:	142	Resp:	11066
Ion	Ratio	Lower	Upper
142	100		
127	50.4	41.8	62.8
141	12.9	11.5	17.3





#11

Tert butyl alcohol

Concen: 20.785 ug/l m

RT: 2.995 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 7159

Ion Ratio Lower Upper

59 100

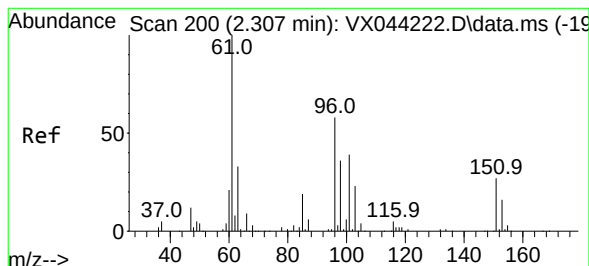
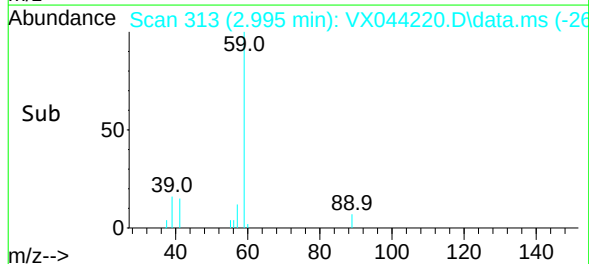
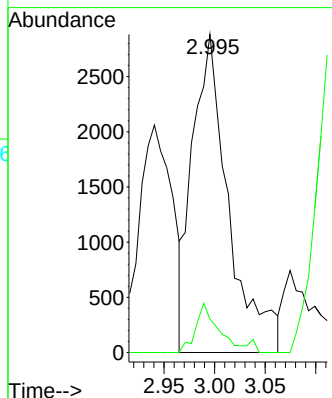
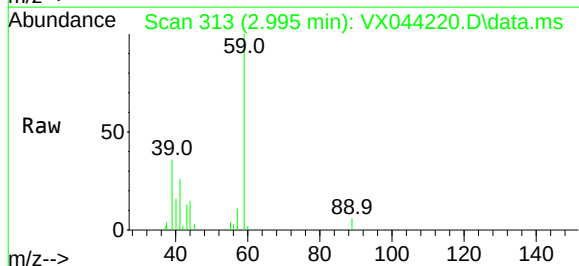
57 9.5 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#12

1,1-Dichloroethene

Concen: 4.999 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

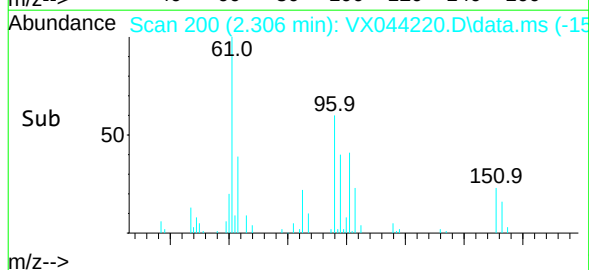
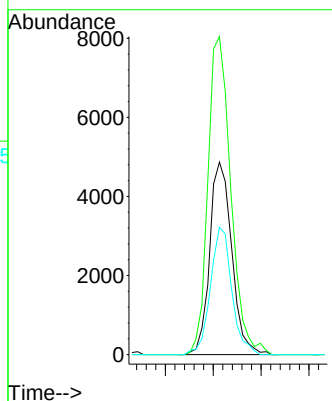
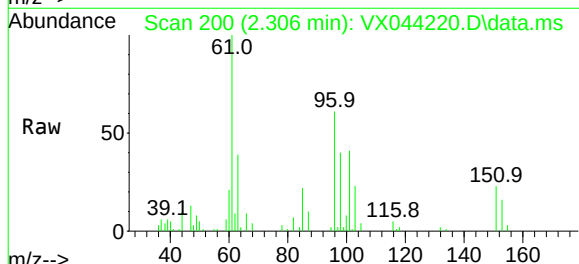
Tgt Ion: 96 Resp: 7822

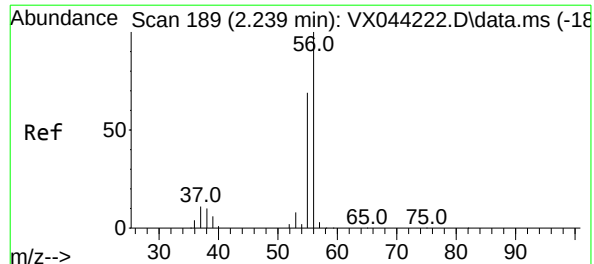
Ion Ratio Lower Upper

96 100

61 165.2 138.0 207.0

98 66.2 50.0 75.0





#13

Acrolein

Concen: 25.073 ug/l

RT: 2.239 min Scan# 189

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 12521

Ion Ratio Lower Upper

56 100

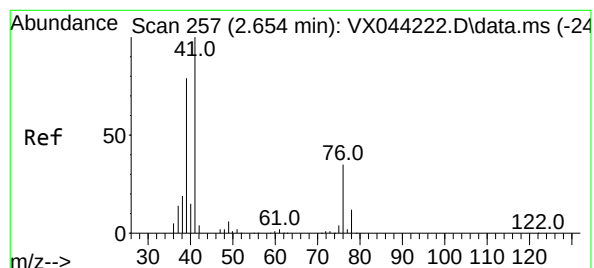
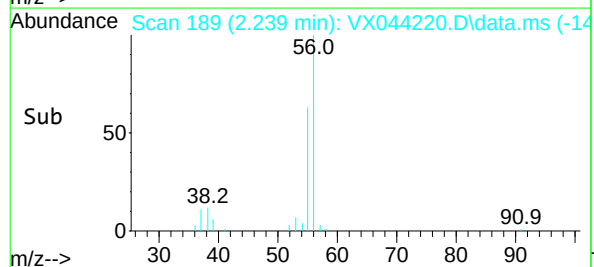
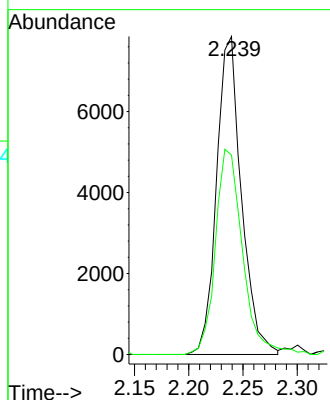
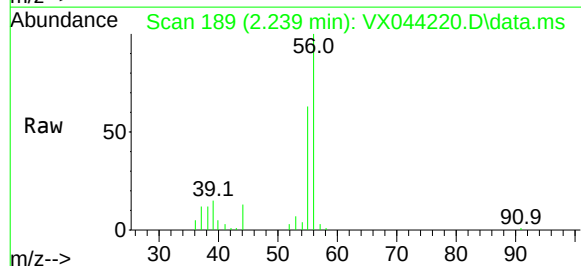
55 70.6 56.6 84.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#14

Allyl chloride

Concen: 4.792 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

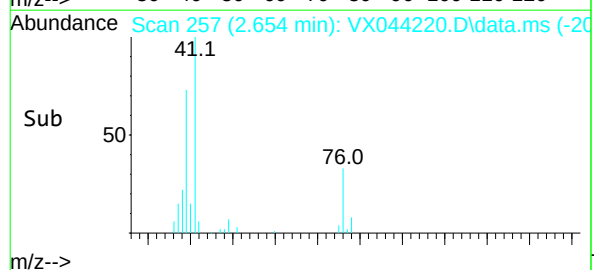
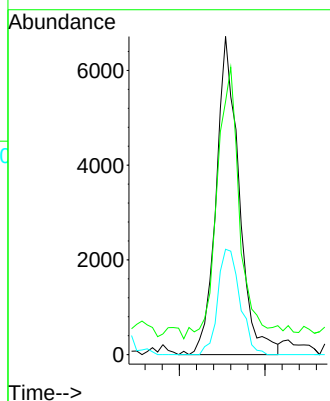
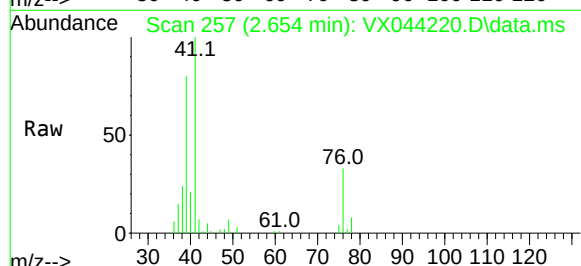
Tgt Ion: 41 Resp: 12490

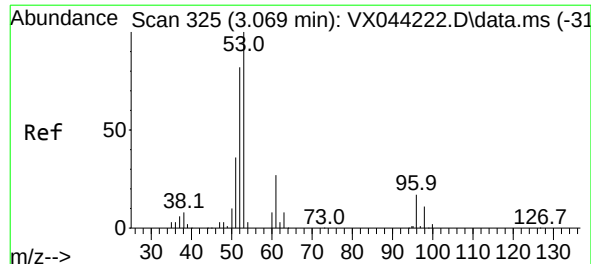
Ion Ratio Lower Upper

41 100

39 84.0 61.9 92.9

76 32.1 27.4 41.2





#15

Acrylonitrile

Concen: 24.357 ug/l

RT: 3.069 min Scan# 32

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

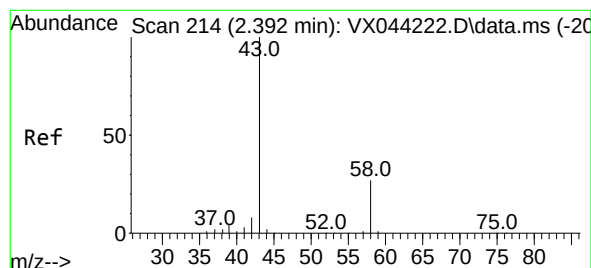
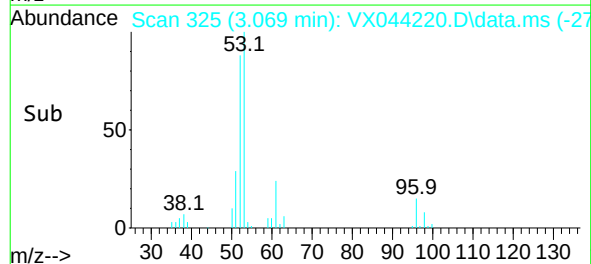
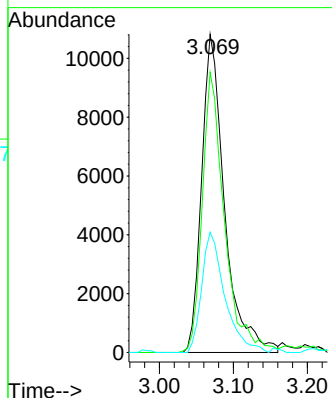
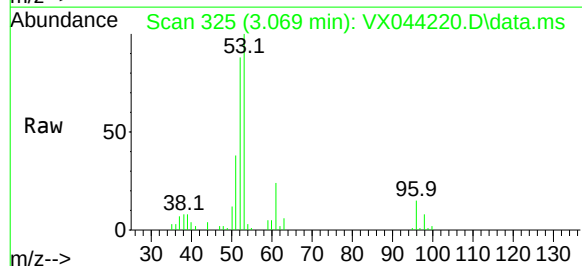
ClientSampleId :

VSTDIC005

Tgt Ion:	53	Resp:	23276
Ion	Ratio	Lower	Upper
53	100		
52	85.0	67.4	101.0
51	38.2	30.3	45.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#16

Acetone

Concen: 24.696 ug/l

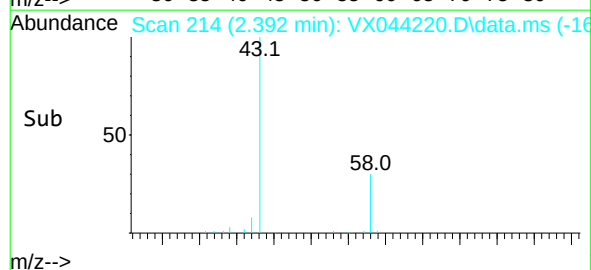
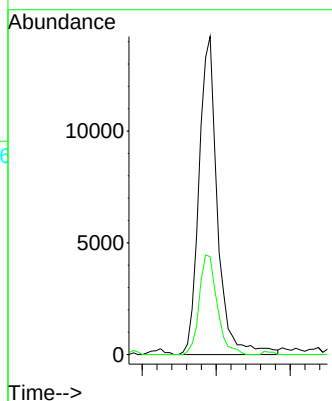
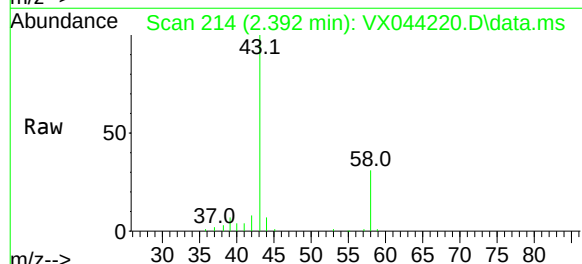
RT: 2.392 min Scan# 214

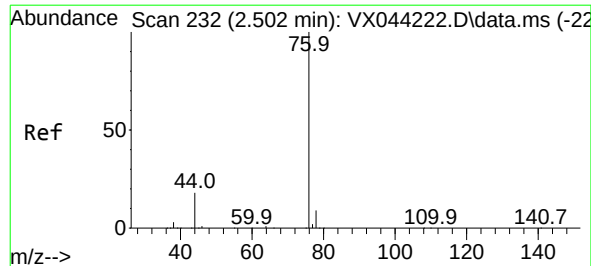
Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Tgt Ion:	43	Resp:	24645
Ion	Ratio	Lower	Upper
43	100		
58	30.8	21.6	32.4





#17

Carbon Disulfide

Concen: 4.091 ug/l

RT: 2.495 min Scan# 23

Delta R.T. -0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 12169

Ion Ratio Lower Upper

76 100

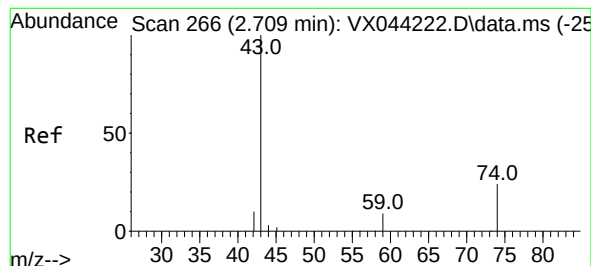
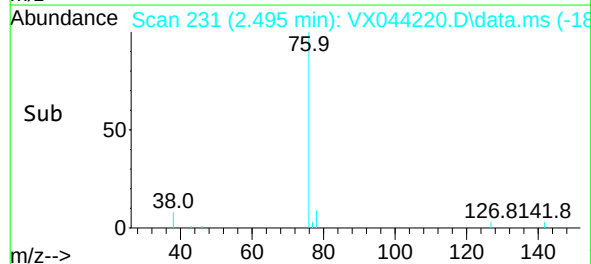
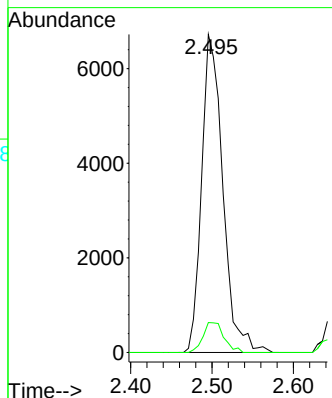
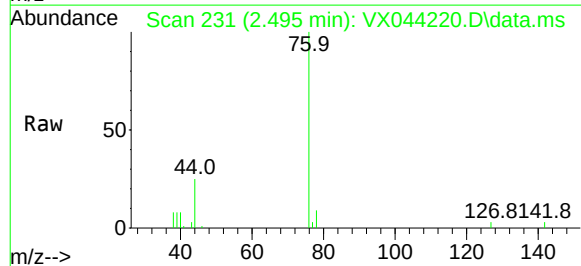
78 9.4 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#18

Methyl Acetate

Concen: 4.824 ug/l

RT: 2.709 min Scan# 266

Delta R.T. -0.000 min

Lab File: VX044220.D

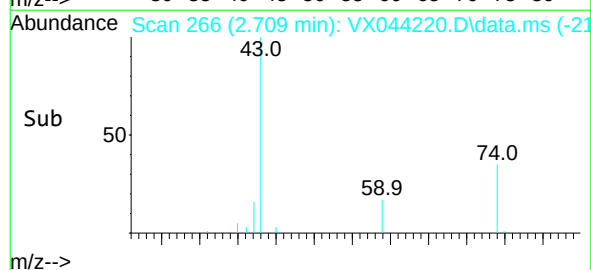
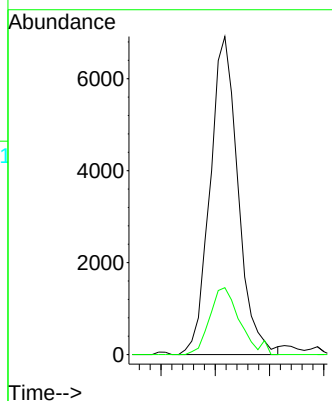
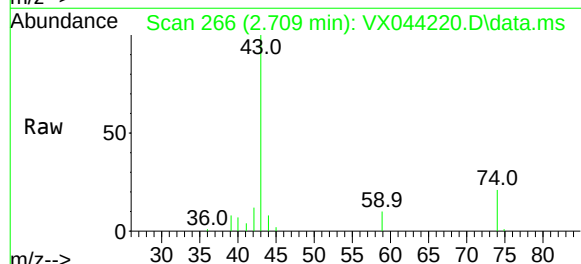
Acq: 11 Dec 2024 11:27

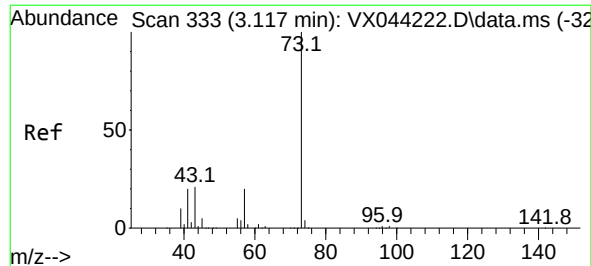
Tgt Ion: 43 Resp: 12412

Ion Ratio Lower Upper

43 100

74 22.7 17.7 26.5





#19

Methyl tert-butyl Ether

Concen: 5.002 ug/l

RT: 3.117 min Scan# 333

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 73 Resp: 30546

Ion Ratio Lower Upper

73 100

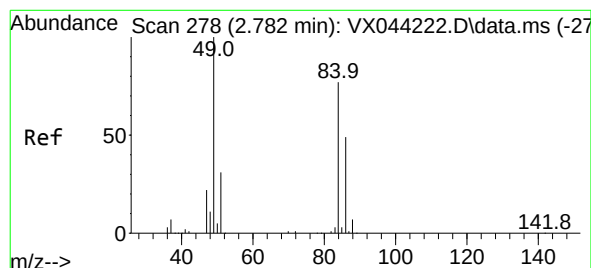
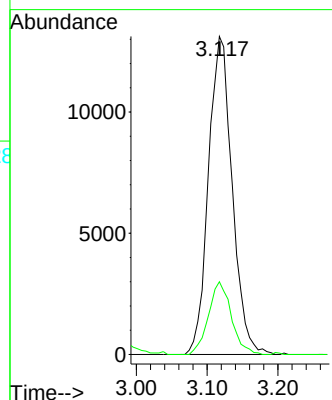
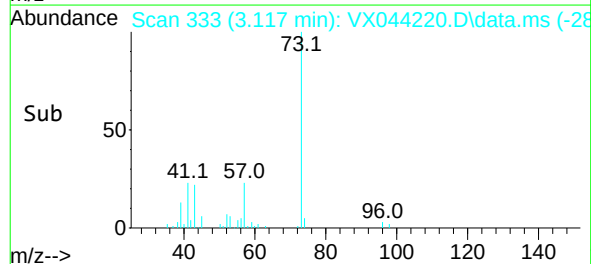
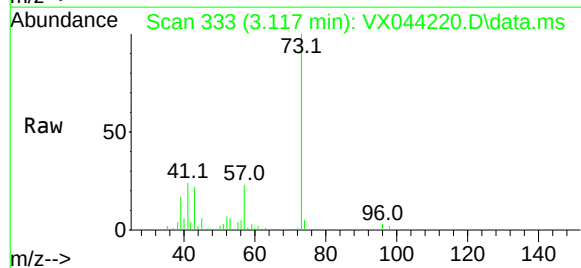
57 22.9 16.2 24.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#20

Methylene Chloride

Concen: 5.050 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Tgt Ion: 84 Resp: 9466

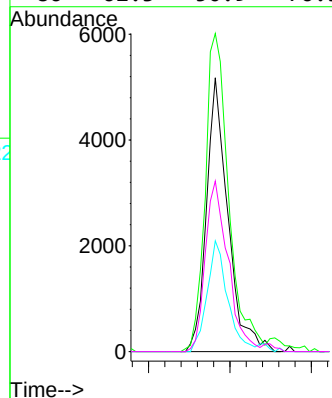
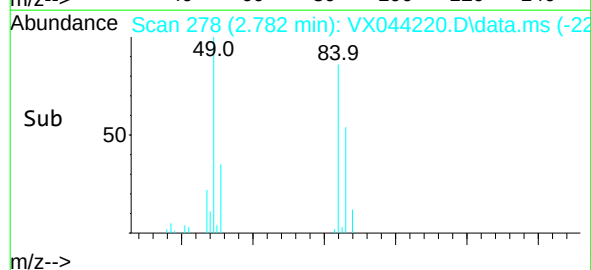
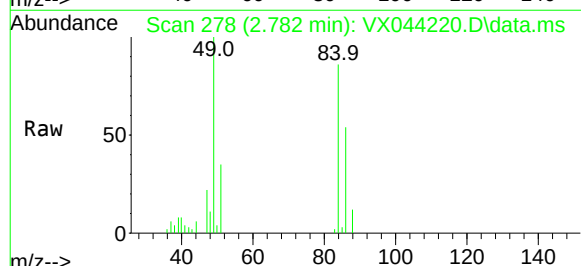
Ion Ratio Lower Upper

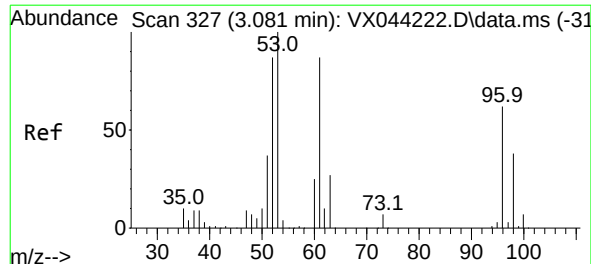
84 100

49 116.2 104.2 156.4

51 40.4 32.2 48.4

86 62.3 50.9 76.3





#21

trans-1,2-Dichloroethene

Concen: 4.671 ug/l

RT: 3.087 min Scan# 327

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 96 Resp: 7768

Ion Ratio Lower Upper

96 100

61 142.9 112.0 168.0

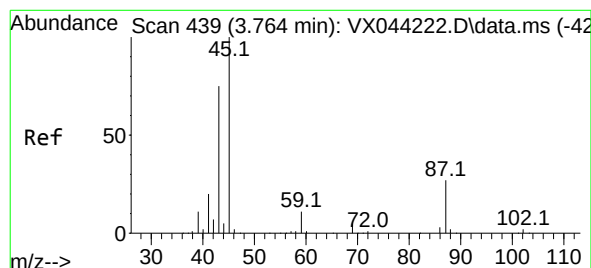
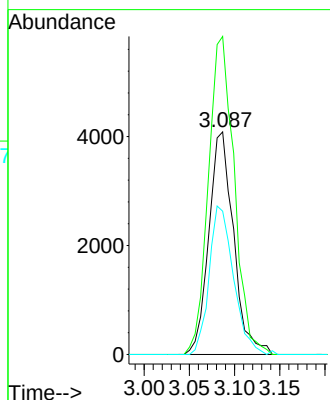
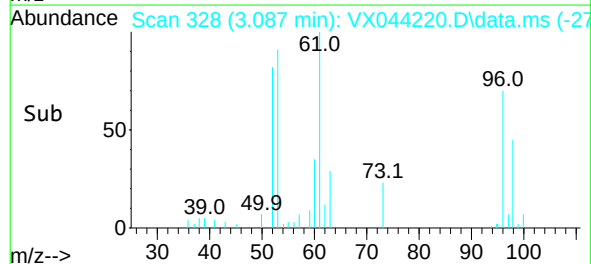
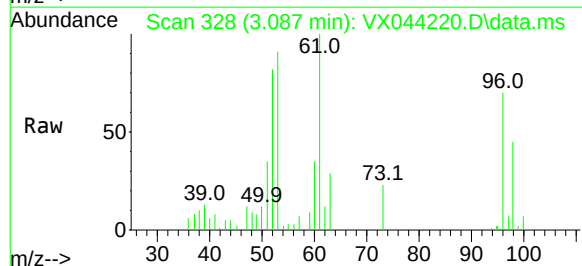
98 64.4 48.8 73.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#22

Diisopropyl ether

Concen: 5.029 ug/l

RT: 3.764 min Scan# 439

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Tgt Ion: 45 Resp: 29518

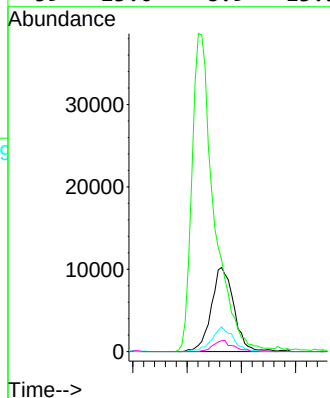
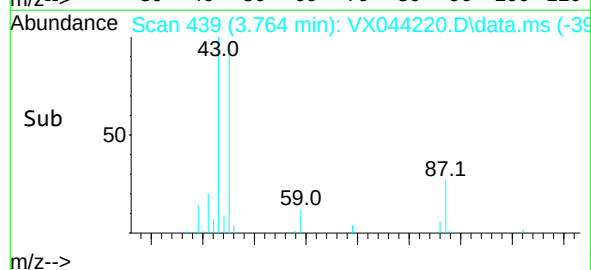
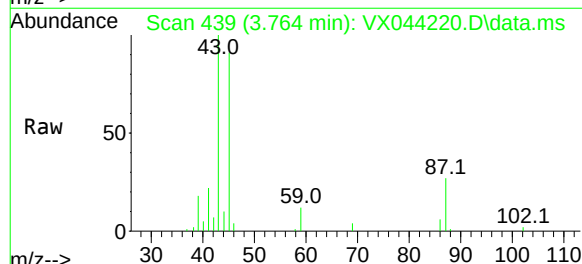
Ion Ratio Lower Upper

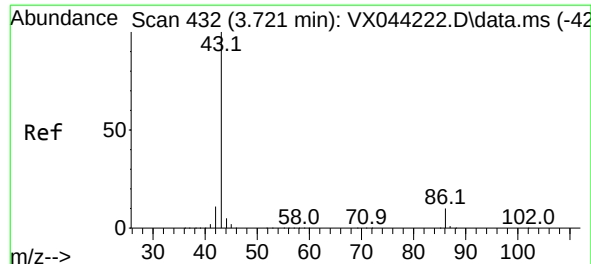
45 100

43 107.7 60.2 90.2#

87 29.5 21.2 31.8

59 13.0 8.9 13.3





#23

Vinyl Acetate

Concen: 22.983 ug/l

RT: 3.721 min Scan# 43

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 109670

Ion Ratio Lower Upper

43 100

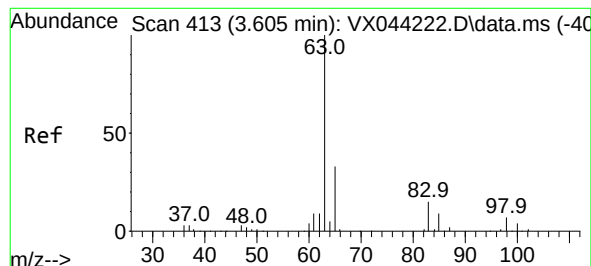
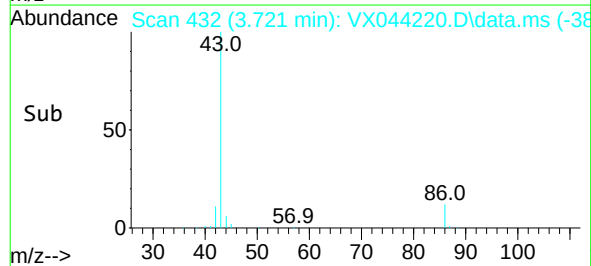
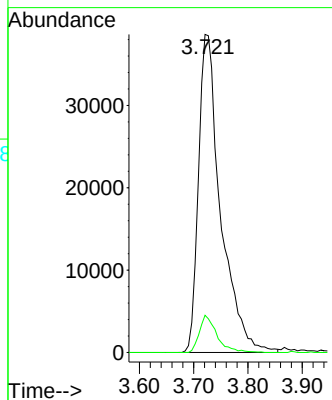
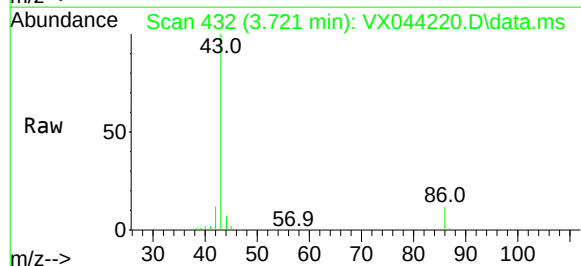
86 11.7 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#24

1,1-Dichloroethane

Concen: 5.004 ug/l

RT: 3.605 min Scan# 413

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

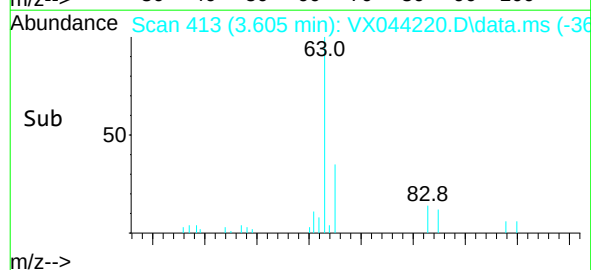
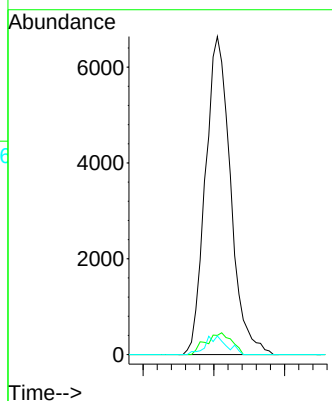
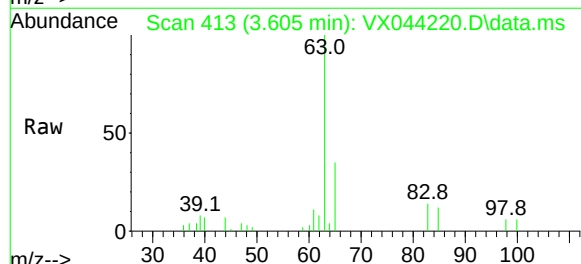
Tgt Ion: 63 Resp: 16370

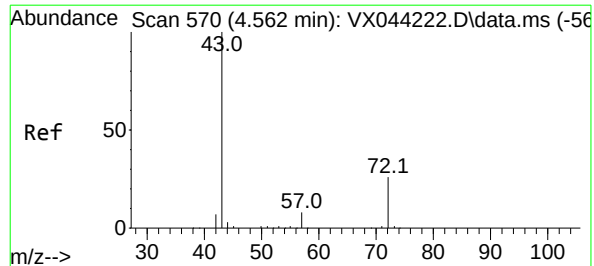
Ion Ratio Lower Upper

63 100

98 6.0 3.6 10.8

100 5.9 2.1 6.3





#25

2-Butanone

Concen: 24.138 ug/l

RT: 4.574 min Scan# 571

Delta R.T. 0.012 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 34245

Ion Ratio Lower Upper

43 100

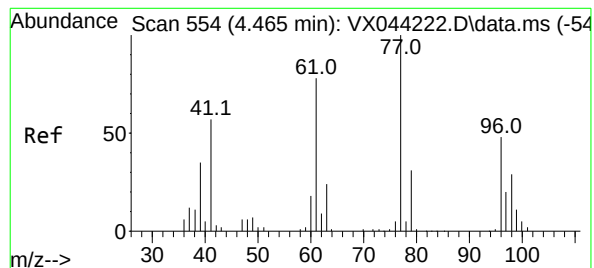
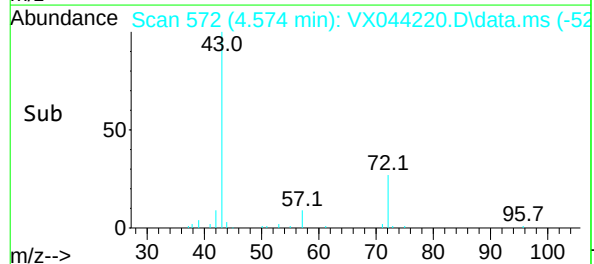
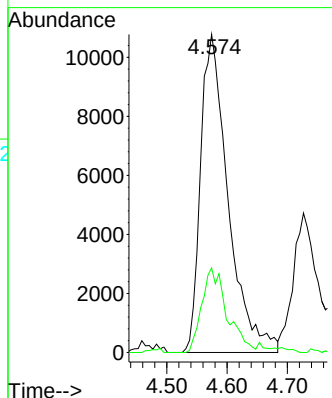
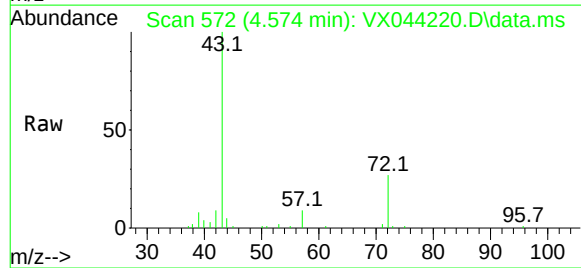
72 26.6 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#26

2,2-Dichloropropane

Concen: 4.708 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.006 min

Lab File: VX044220.D

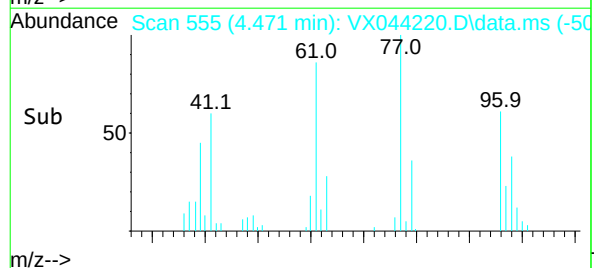
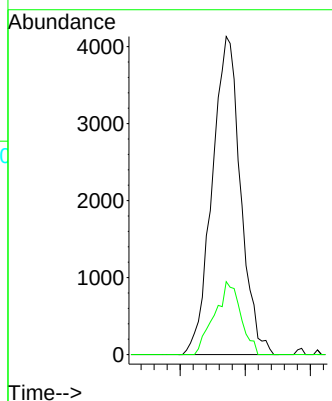
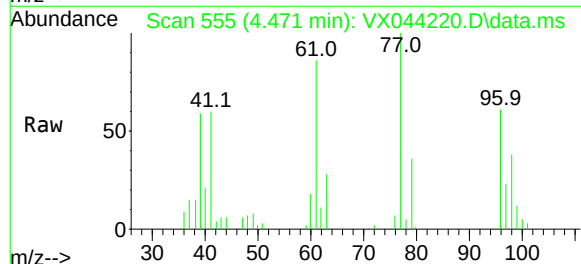
Acq: 11 Dec 2024 11:27

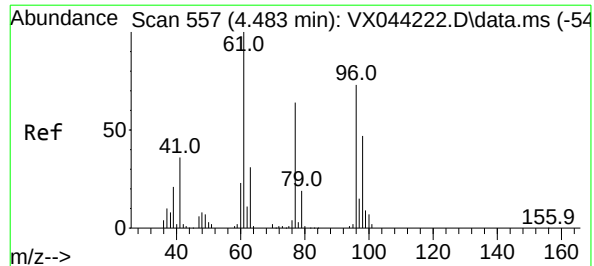
Tgt Ion: 77 Resp: 12514

Ion Ratio Lower Upper

77 100

97 21.2 10.7 32.1





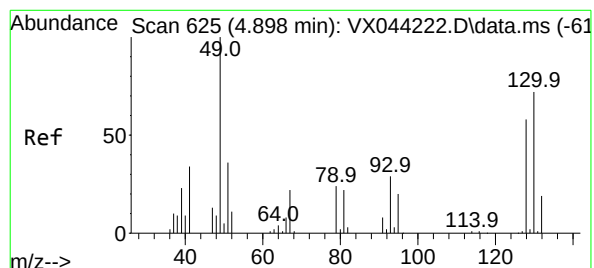
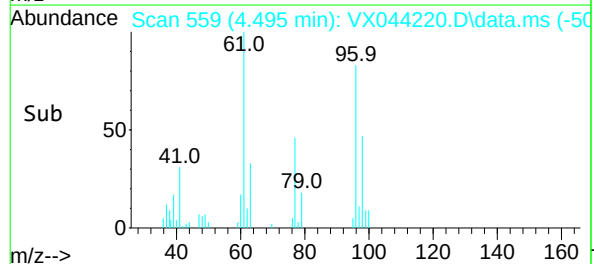
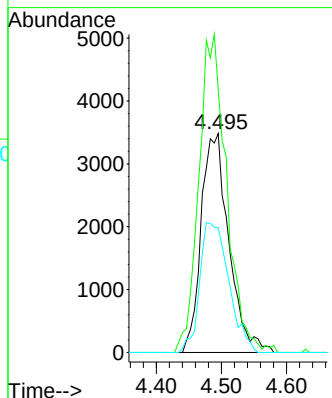
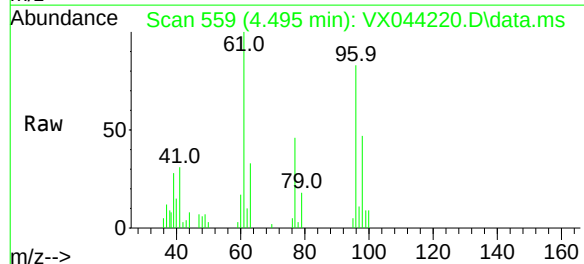
#27
cis-1,2-Dichloroethene
Concen: 4.873 ug/l
RT: 4.495 min Scan# 557
Delta R.T. 0.012 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
96	100		
61	145.0	0.0	299.0
98	62.4	0.0	129.0

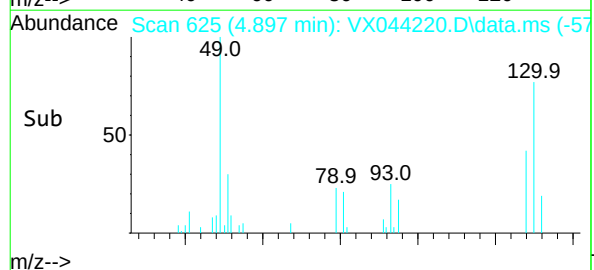
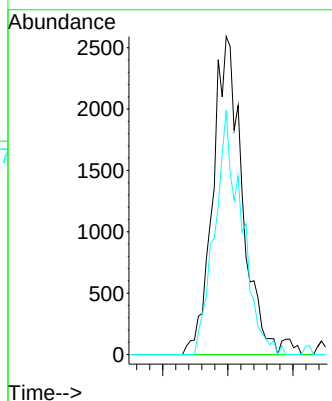
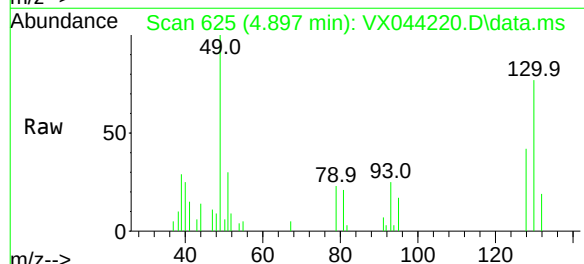
Manual Integrations
APPROVED

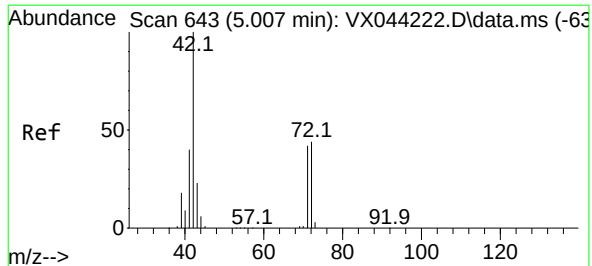
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#28
Bromochloromethane
Concen: 5.017 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	71.2	62.1	93.1





#29

Tetrahydrofuran

Concen: 26.693 ug/l

RT: 5.019 min Scan# 64

Delta R.T. 0.012 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

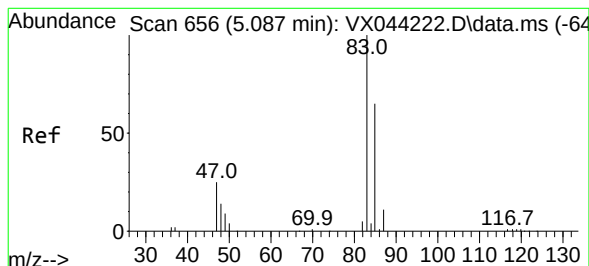
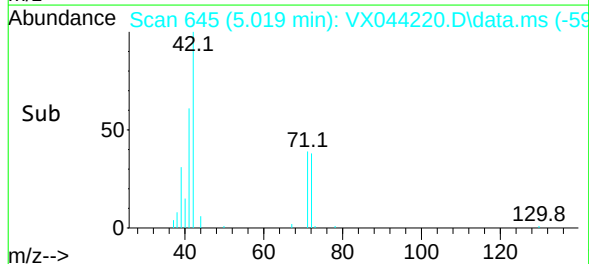
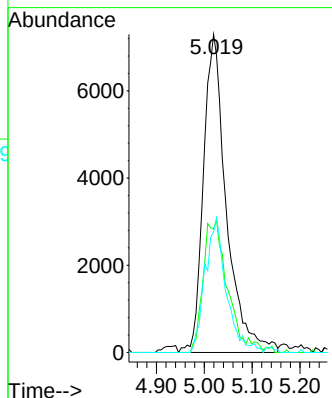
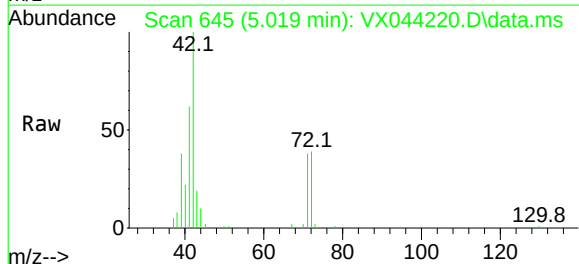
ClientSampleId :

VSTDICC005

Tgt Ion:	42	Resp:	24307
Ion	Ratio	Lower	Upper
42	100		
72	42.3	37.0	55.6
71	38.9	33.6	50.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#30

Chloroform

Concen: 4.984 ug/l

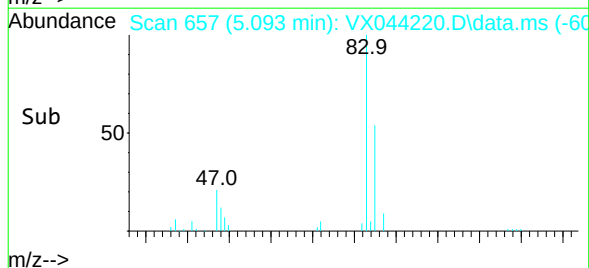
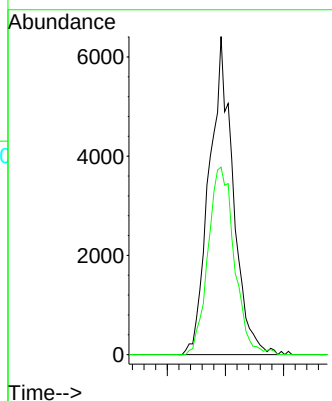
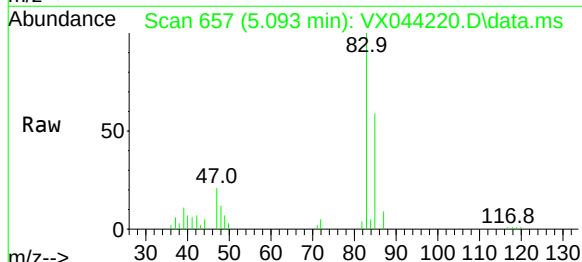
RT: 5.093 min Scan# 657

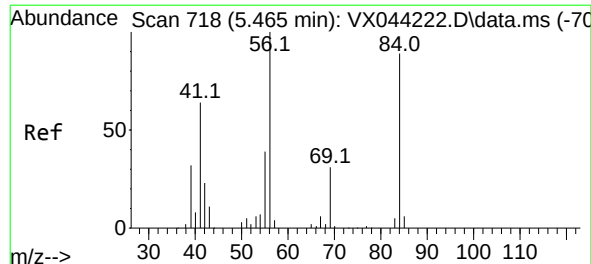
Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Tgt Ion:	83	Resp:	18319
Ion	Ratio	Lower	Upper
83	100		
85	58.9	51.6	77.4





#31

Cyclohexane

Concen: 4.919 ug/l

RT: 5.464 min Scan# 718

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 12995

Ion Ratio Lower Upper

56 100

69 26.4 24.7 37.1

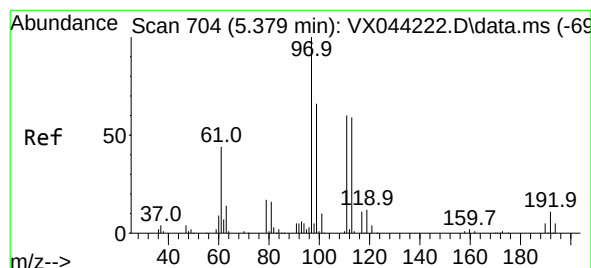
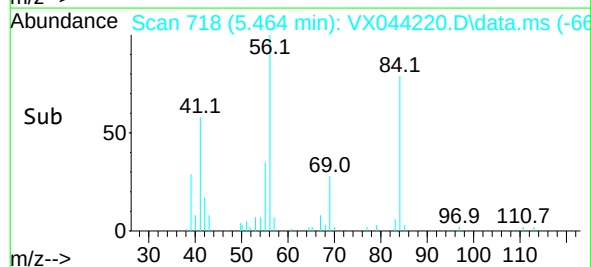
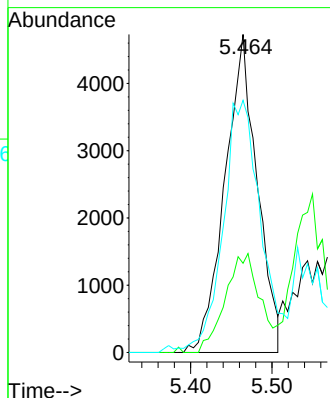
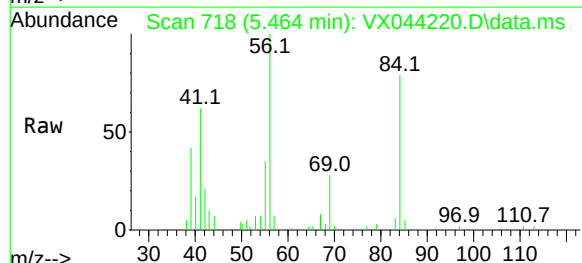
84 77.9 71.0 106.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#32

1,1,1-Trichloroethane

Concen: 4.664 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

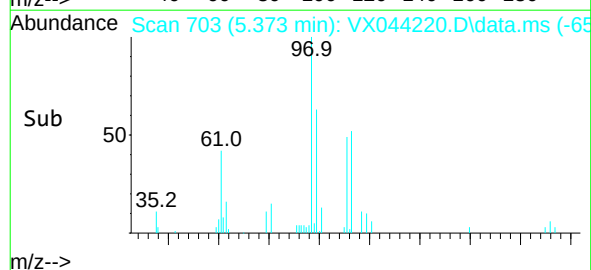
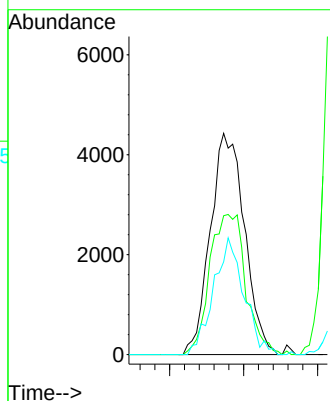
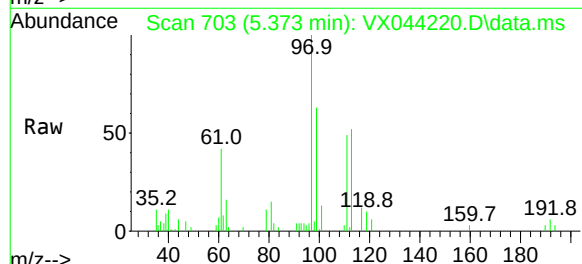
Tgt Ion: 97 Resp: 14231

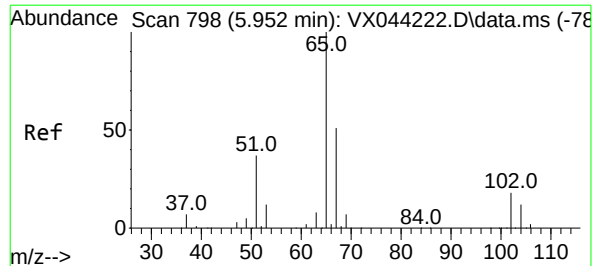
Ion Ratio Lower Upper

97 100

99 66.8 50.8 76.2

61 46.9 35.2 52.8





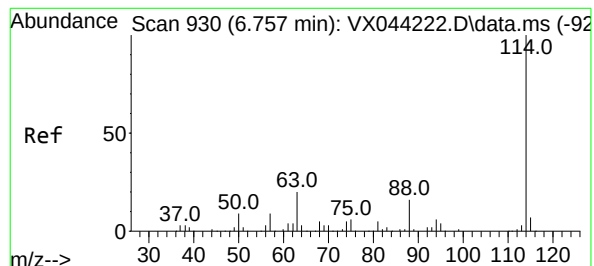
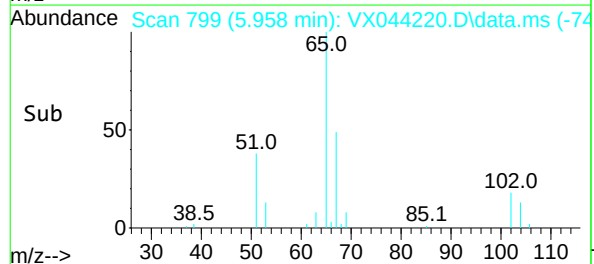
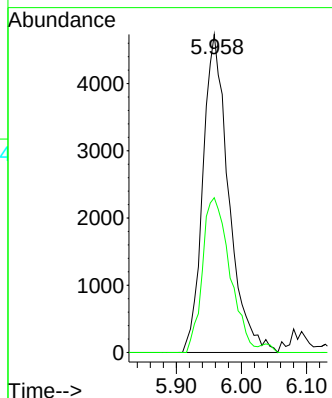
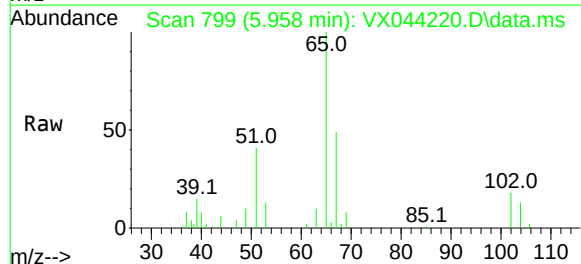
#33
1,2-Dichloroethane-d4
Concen: 5.328 ug/l
RT: 5.958 min Scan# 798
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 13043
Ion Ratio Lower Upper
65 100
67 51.8 0.0 101.6

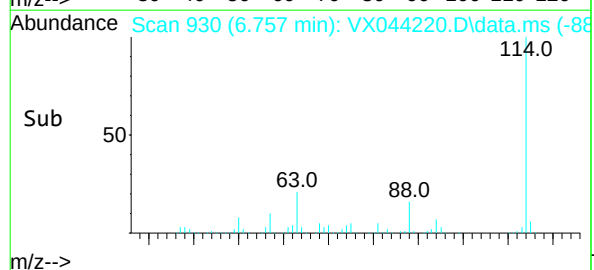
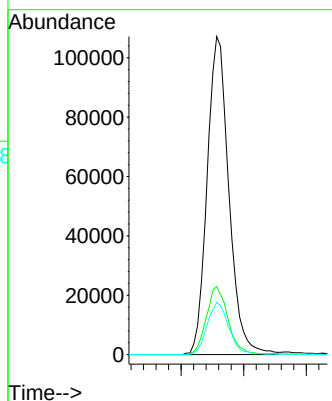
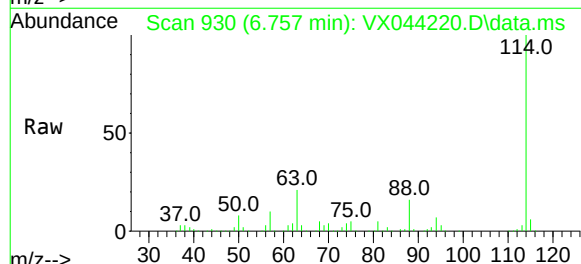
Manual Integrations
APPROVED

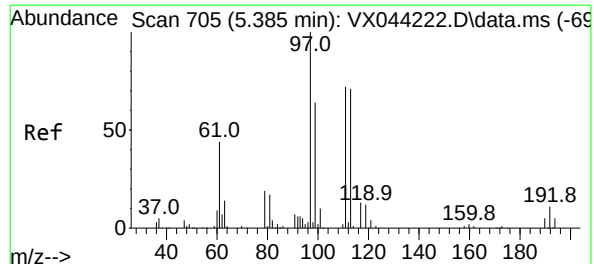
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:114 Resp: 258881
Ion Ratio Lower Upper
114 100
63 21.4 0.0 40.6
88 16.4 0.0 31.8





#35

Dibromofluoromethane

Concen: 5.100 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

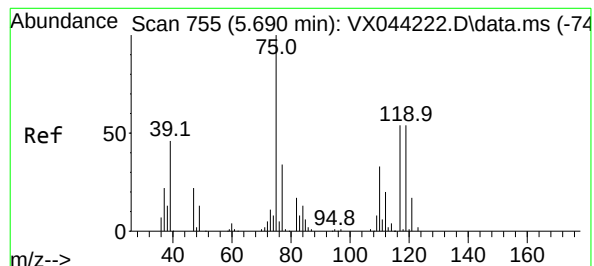
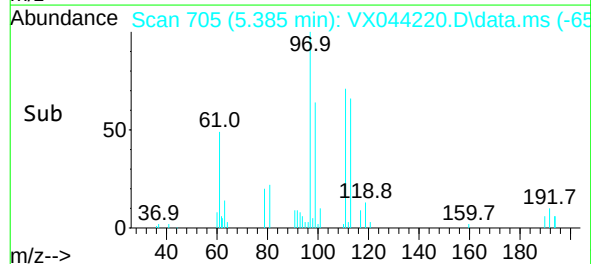
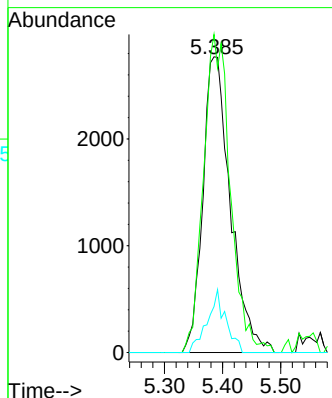
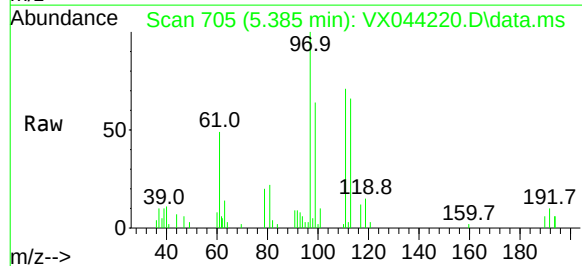
ClientSampleId :

VSTDIC005

Tgt Ion:	113	Resp:	9145
Ion	Ratio	Lower	Upper
113	100		
111	104.7	80.4	120.6
192	14.2	13.3	19.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#36

1,1-Dichloropropene

Concen: 4.942 ug/l

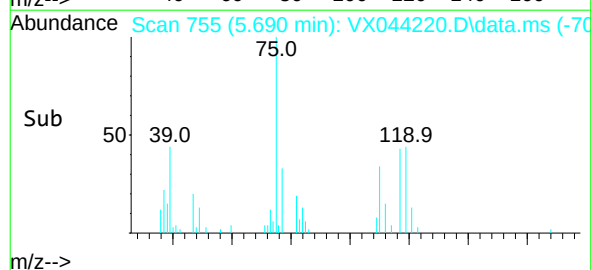
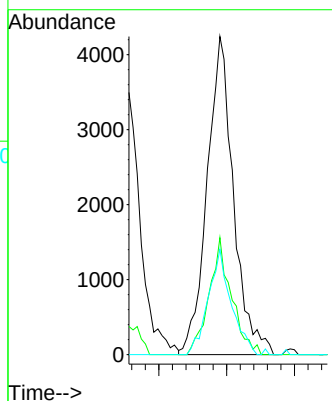
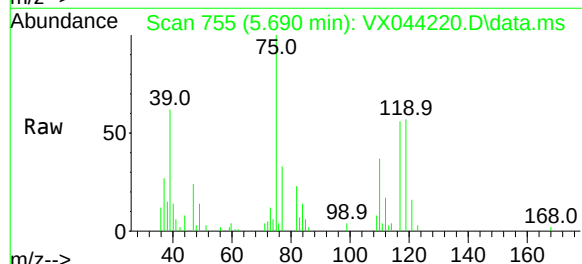
RT: 5.690 min Scan# 755

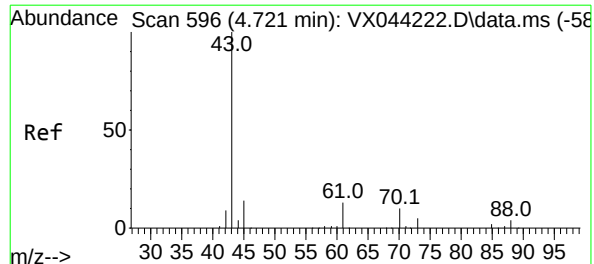
Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Tgt Ion:	75	Resp:	11455
Ion	Ratio	Lower	Upper
75	100		
110	31.1	17.3	51.7
77	28.7	25.4	38.0





#37

Ethyl Acetate

Concen: 4.630 ug/l

RT: 4.727 min Scan# 59

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

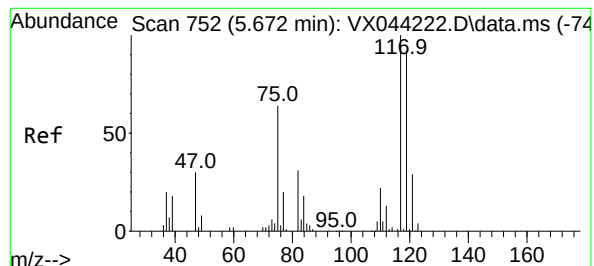
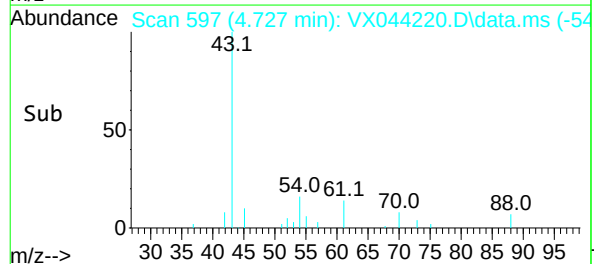
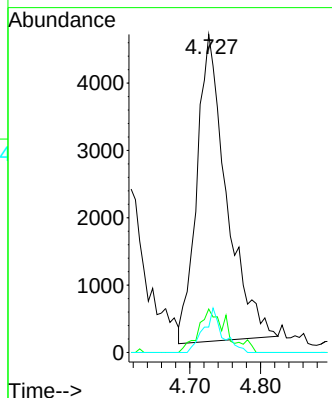
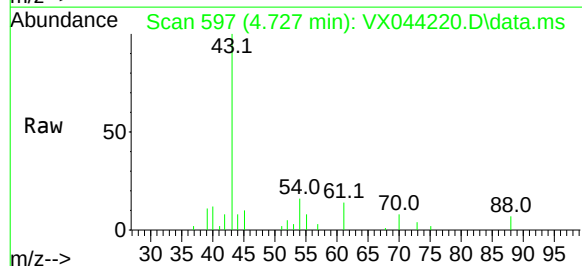
ClientSampleId :

VSTDIC005

Tgt Ion:	43	Resp:	13265
Ion	Ratio	Lower	Upper
43	100		
61	13.6	9.8	14.8
70	9.1	7.7	11.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#38

Carbon Tetrachloride

Concen: 4.599 ug/l

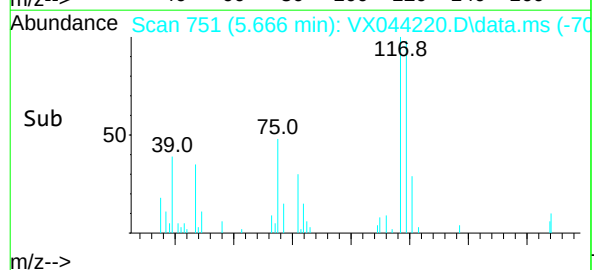
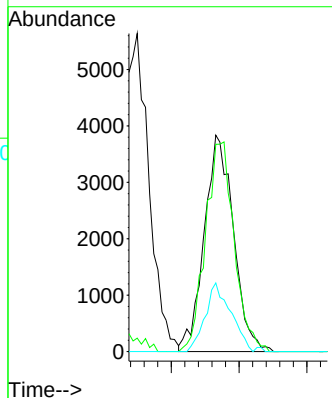
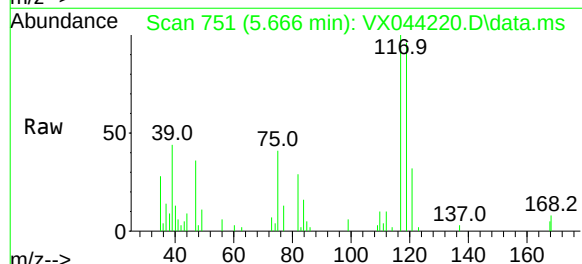
RT: 5.666 min Scan# 751

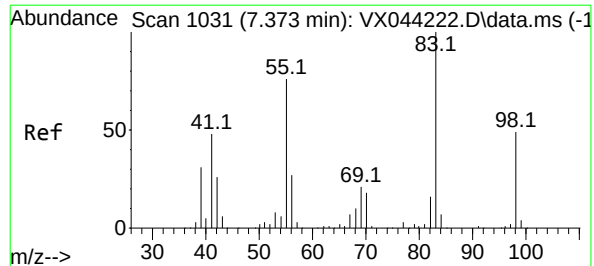
Delta R.T. -0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Tgt Ion:	117	Resp:	11476
Ion	Ratio	Lower	Upper
117	100		
119	95.8	74.2	111.4
121	31.7	23.0	34.6





#39

Methylcyclohexane

Concen: 4.699 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

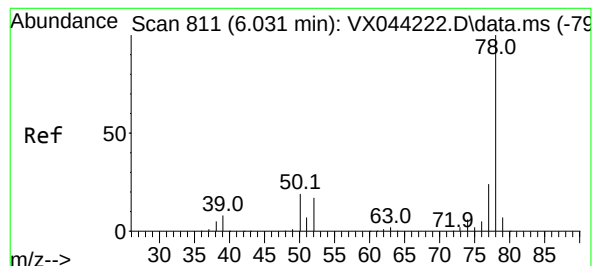
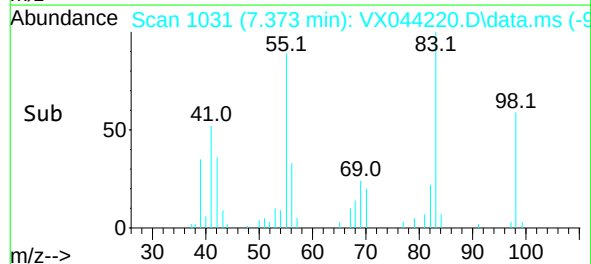
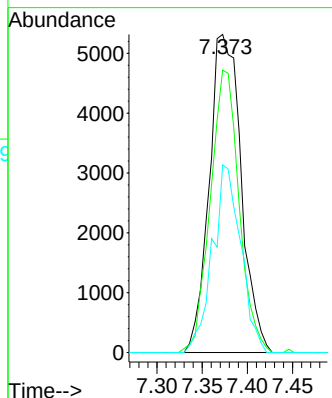
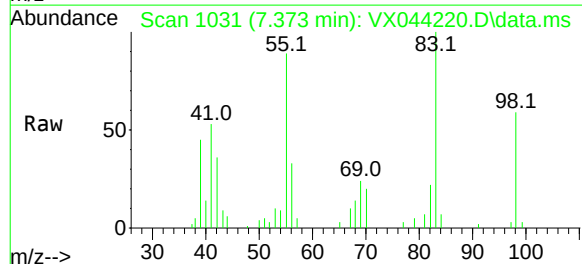
VSTDICC005

Tgt Ion:	83	Resp:	13019
Ion	Ratio	Lower	Upper
83	100		
55	88.8	60.7	91.1
98	59.0	38.9	58.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#40

Benzene

Concen: 4.976 ug/l

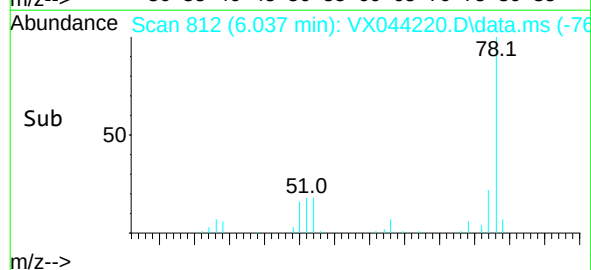
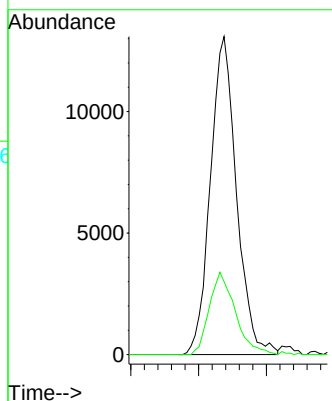
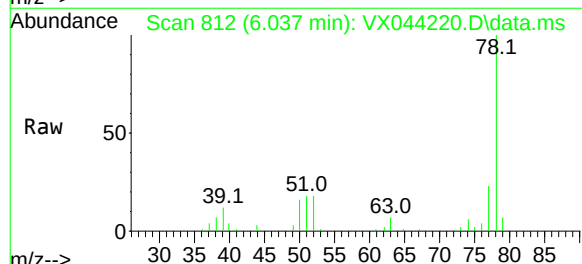
RT: 6.037 min Scan# 812

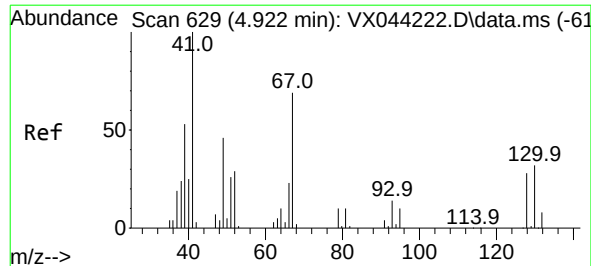
Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Tgt Ion:	78	Resp:	35018
Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.3	28.9





#41

Methacrylonitrile

Concen: 4.986 ug/l

RT: 4.946 min Scan# 63

Delta R.T. 0.024 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 41 Resp: 7585

Ion Ratio Lower Upper

41 100

39 58.4 44.2 66.4

67 63.0 57.2 85.8

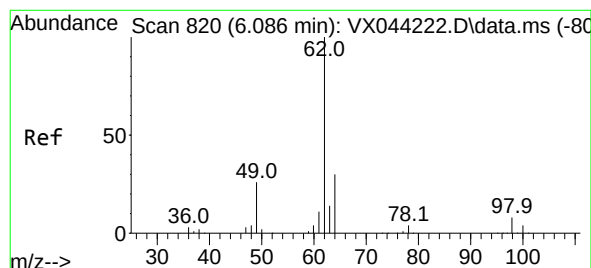
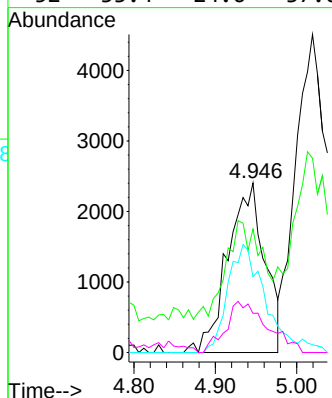
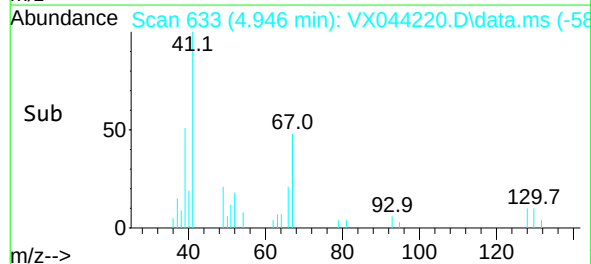
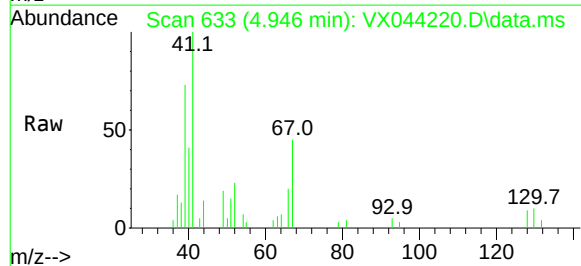
52 33.4 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#42

1,2-Dichloroethane

Concen: 4.974 ug/l

RT: 6.092 min Scan# 821

Delta R.T. 0.006 min

Lab File: VX044220.D

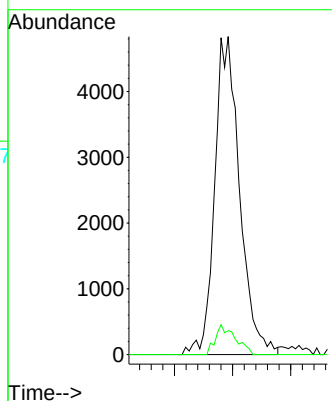
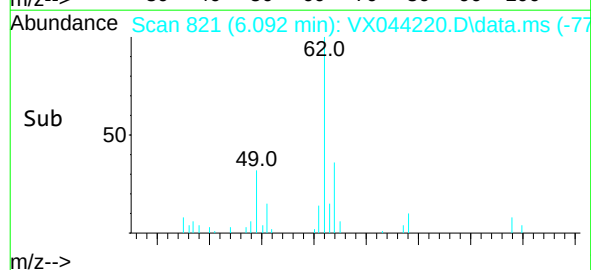
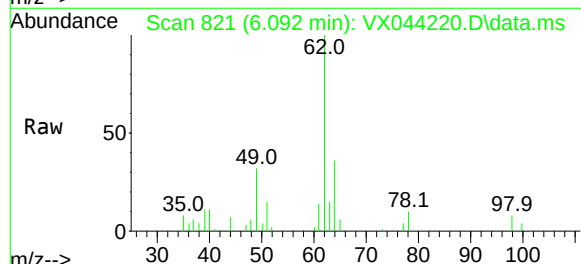
Acq: 11 Dec 2024 11:27

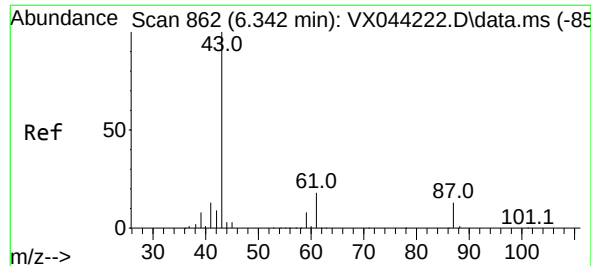
Tgt Ion: 62 Resp: 14419

Ion Ratio Lower Upper

62 100

98 7.5 0.0 15.8





#43

Isopropyl Acetate

Concen: 4.935 ug/l

RT: 6.354 min Scan# 862

Delta R.T. 0.012 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

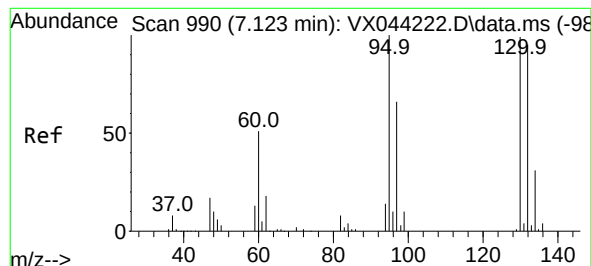
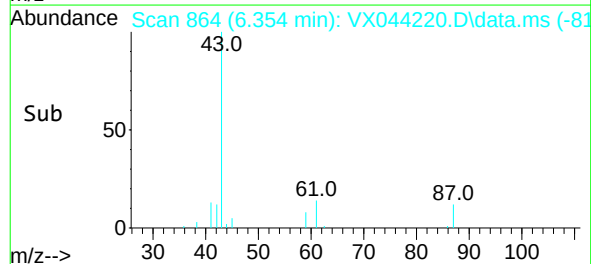
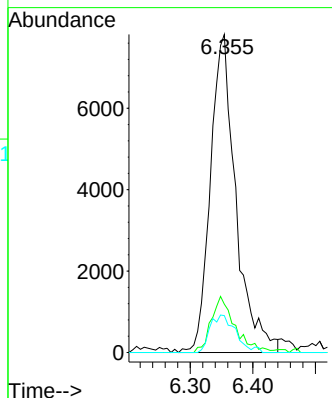
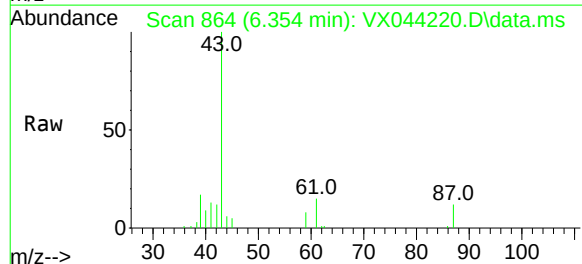
ClientSampleId :

VSTDIC005

Tgt Ion:	43	Resp:	22098
Ion	Ratio	Lower	Upper
43	100		
61	16.5	14.2	21.2
87	11.9	10.2	15.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#44

Trichloroethene

Concen: 4.790 ug/l

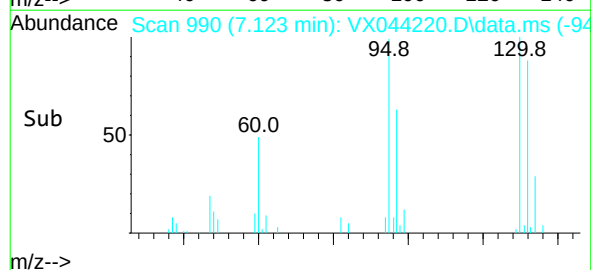
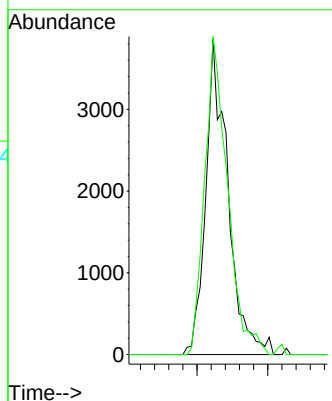
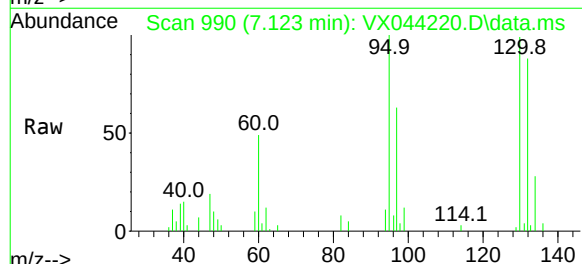
RT: 7.123 min Scan# 990

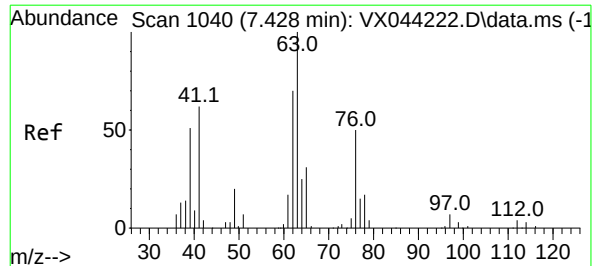
Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Tgt Ion:	130	Resp:	8405
Ion	Ratio	Lower	Upper
130	100		
95	100.9	0.0	201.4





#45

1,2-Dichloropropane

Concen: 4.968 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 63 Resp: 8932

Ion Ratio Lower Upper

63 100

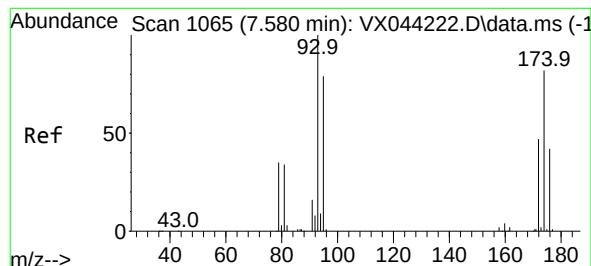
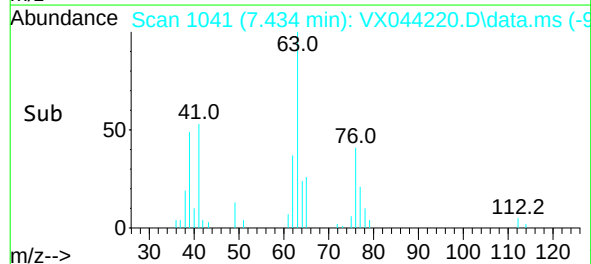
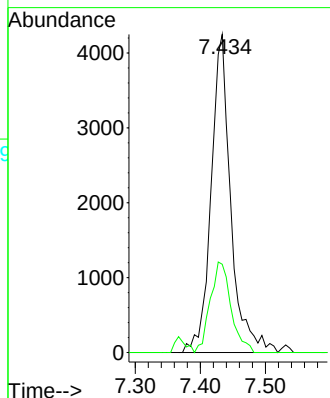
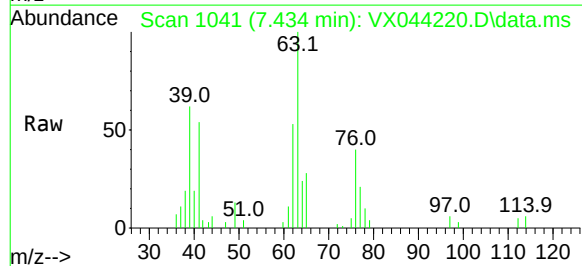
65 27.8 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#46

Dibromomethane

Concen: 4.958 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

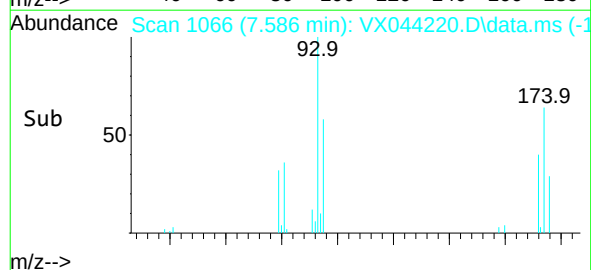
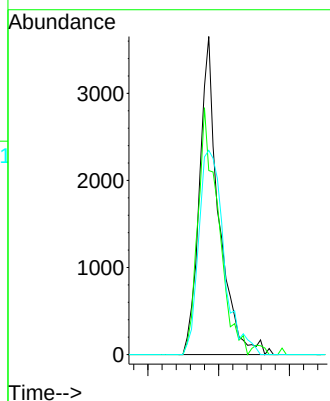
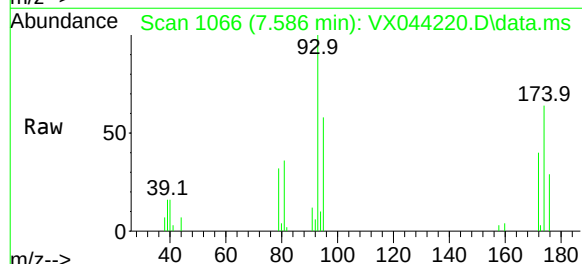
Tgt Ion: 93 Resp: 6915

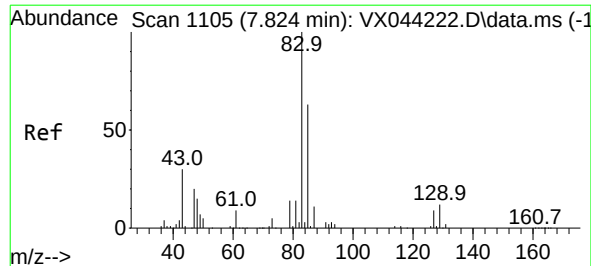
Ion Ratio Lower Upper

93 100

95 82.3 65.4 98.2

174 83.6 67.9 101.9





#47

Bromodichloromethane

Concen: 4.420 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 83 Resp: 10646

Ion Ratio Lower Upper

83 100

85 61.7 50.6 75.8

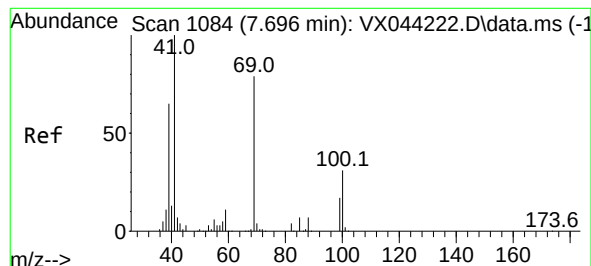
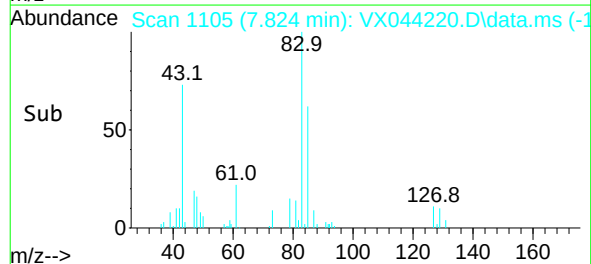
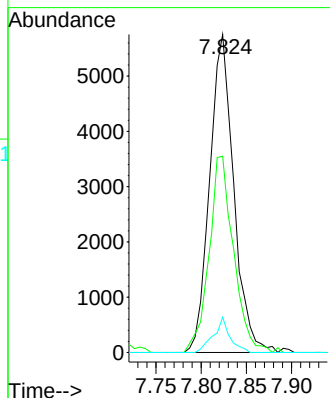
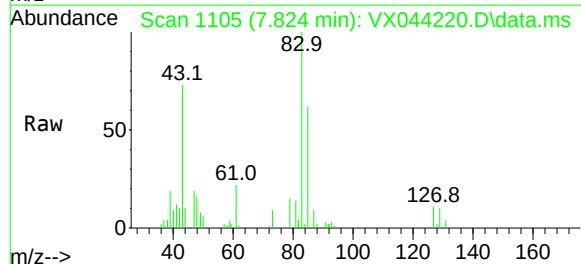
127 11.1 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#48

Methyl methacrylate

Concen: 4.410 ug/l

RT: 7.702 min Scan# 1085

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

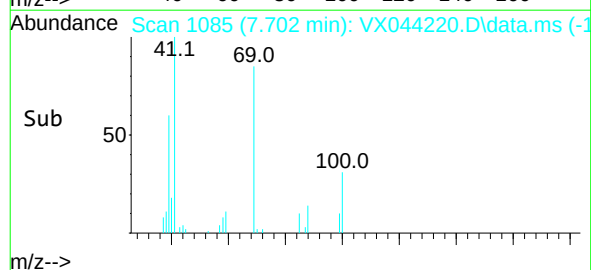
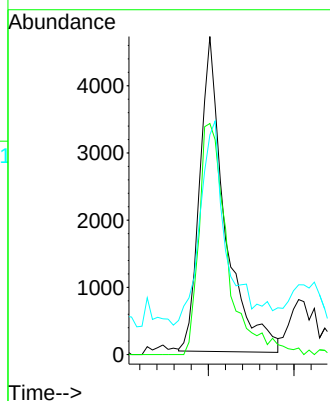
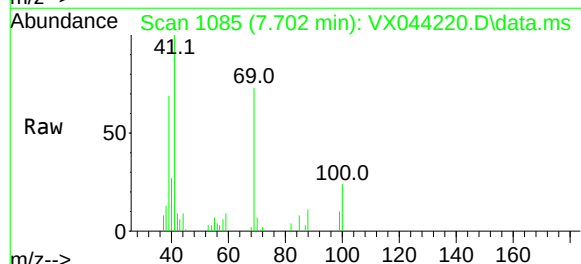
Tgt Ion: 41 Resp: 9586

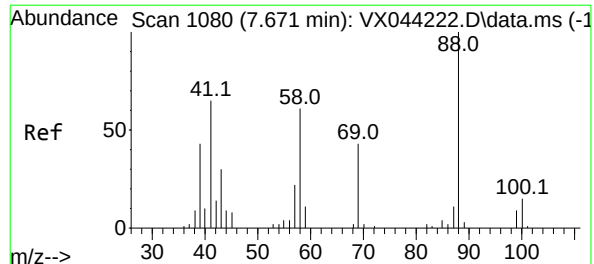
Ion Ratio Lower Upper

41 100

69 82.8 62.4 93.6

39 66.7 53.3 79.9





#49

1,4-Dioxane

Concen: 95.429 ug/l m

RT: 7.671 min Scan# 1080

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 88 Resp: 3545

Ion Ratio Lower Upper

88 100

43 18.3 27.1 40.7

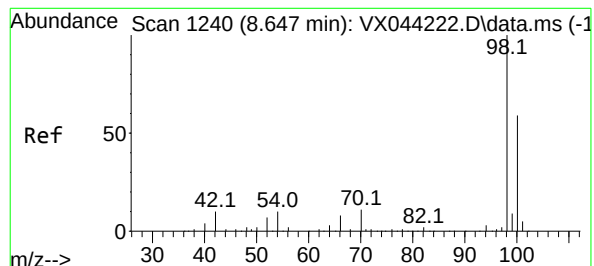
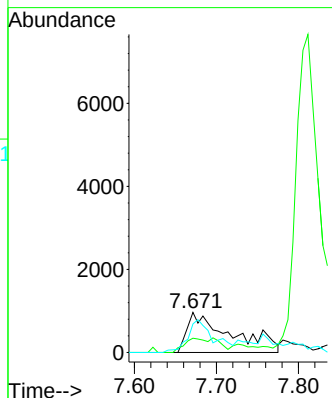
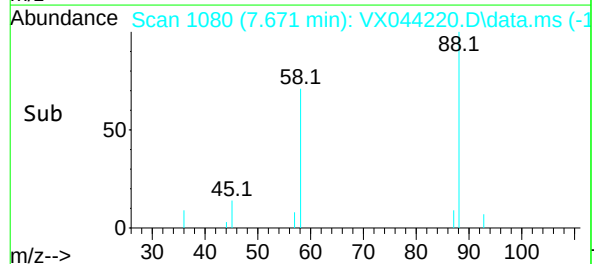
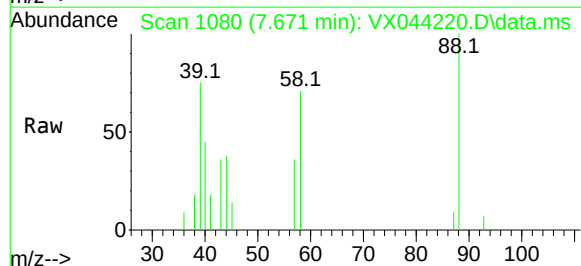
58 48.3 41.0 61.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#50

Toluene-d8

Concen: 4.915 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX044220.D

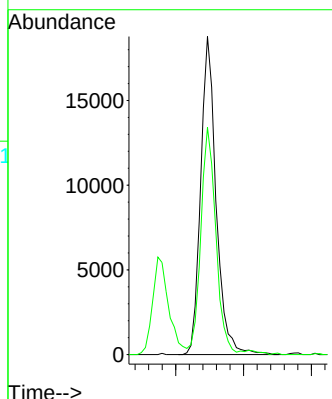
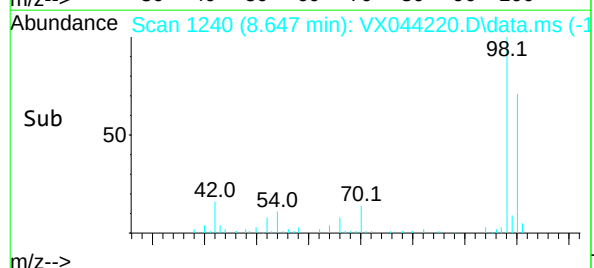
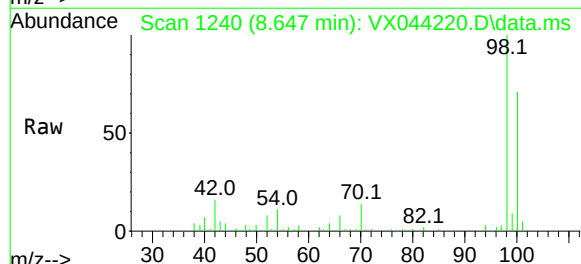
Acq: 11 Dec 2024 11:27

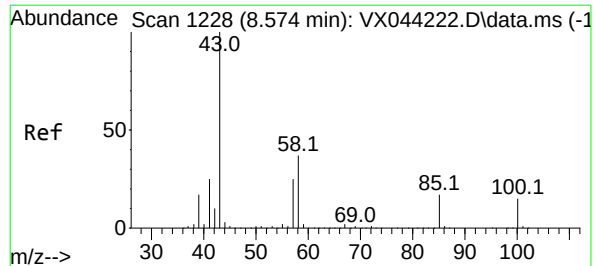
Tgt Ion: 98 Resp: 29732

Ion Ratio Lower Upper

98 100

100 67.4 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 24.759 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 71285

Ion Ratio Lower Upper

43 100

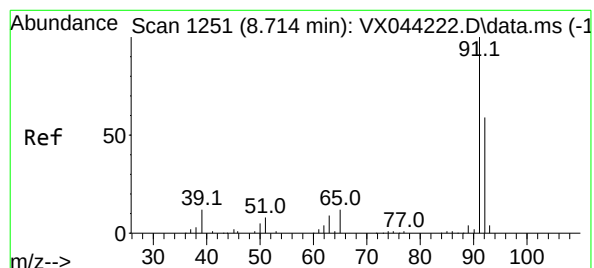
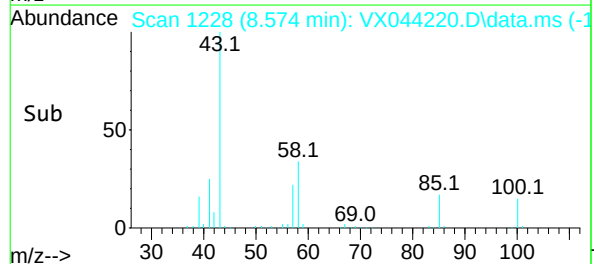
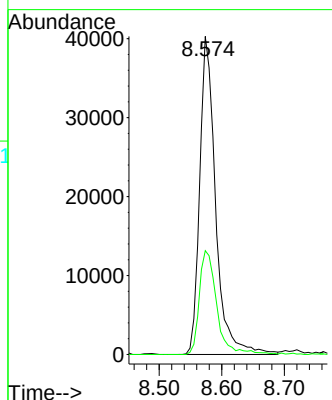
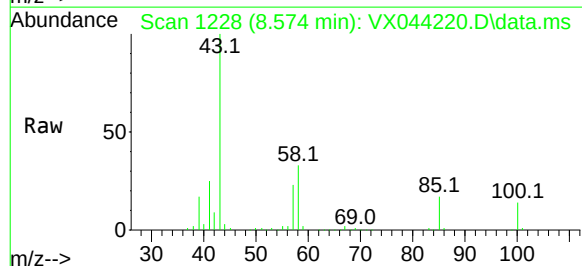
58 35.7 29.4 44.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#52

Toluene

Concen: 4.862 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.006 min

Lab File: VX044220.D

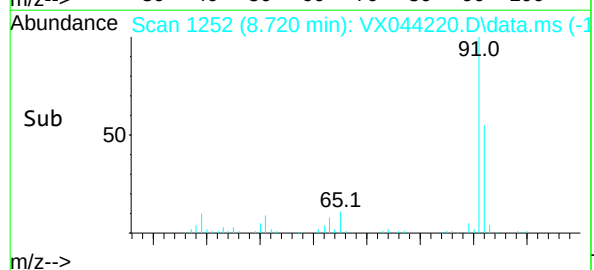
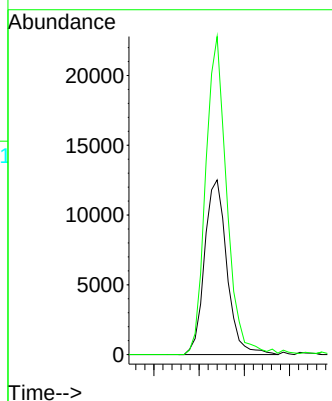
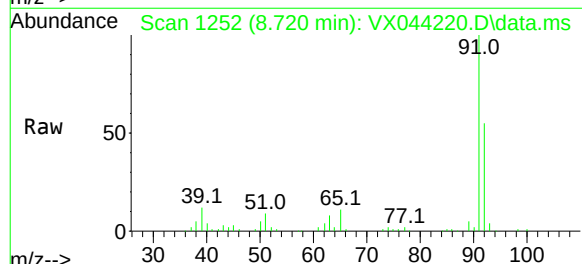
Acq: 11 Dec 2024 11:27

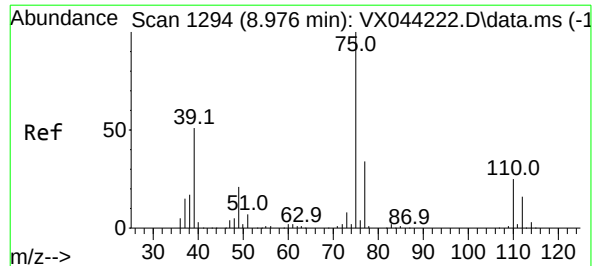
Tgt Ion: 92 Resp: 21486

Ion Ratio Lower Upper

92 100

91 173.0 137.0 205.6





#53

t-1,3-Dichloropropene

Concen: 4.665 ug/l

RT: 8.982 min Scan# 12

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 75 Resp: 9232

Ion Ratio Lower Upper

75 100

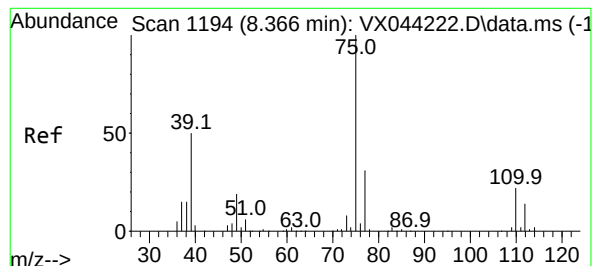
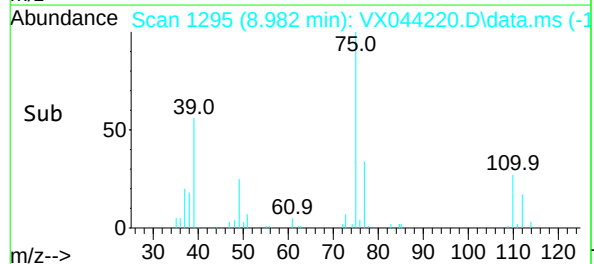
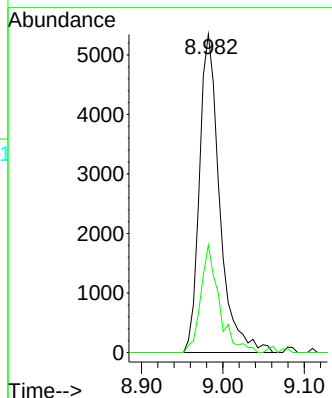
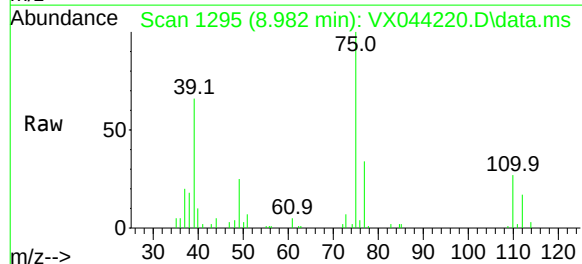
77 33.8 27.2 40.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#54

cis-1,3-Dichloropropene

Concen: 4.348 ug/l

RT: 8.372 min Scan# 1195

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

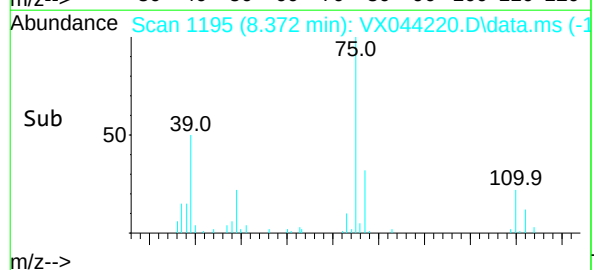
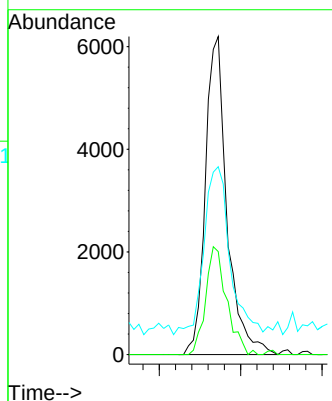
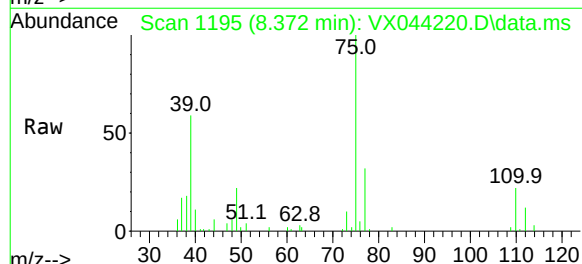
Tgt Ion: 75 Resp: 11404

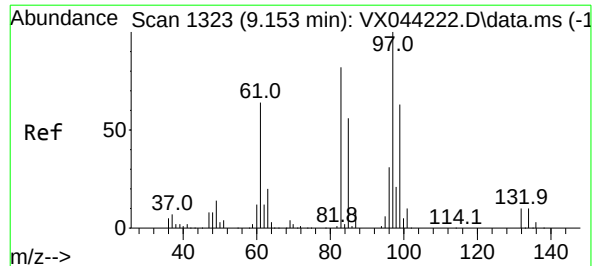
Ion Ratio Lower Upper

75 100

77 32.4 24.7 37.1

39 50.5 40.3 60.5





#55

1,1,2-Trichloroethane

Concen: 4.893 ug/l

RT: 9.153 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

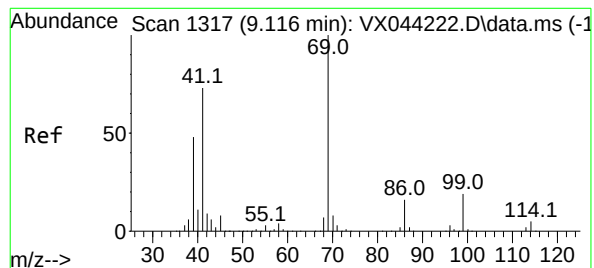
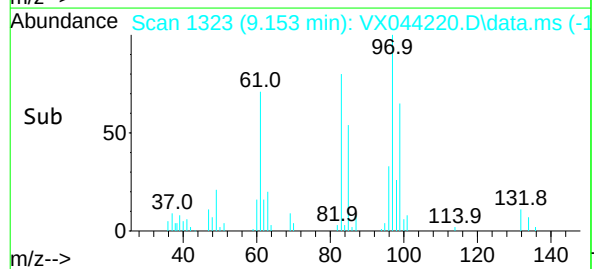
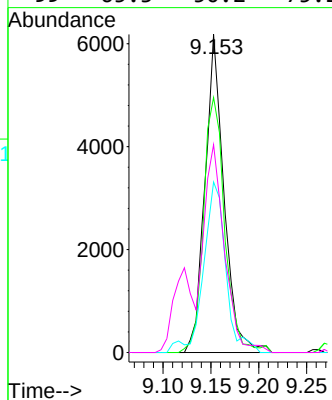
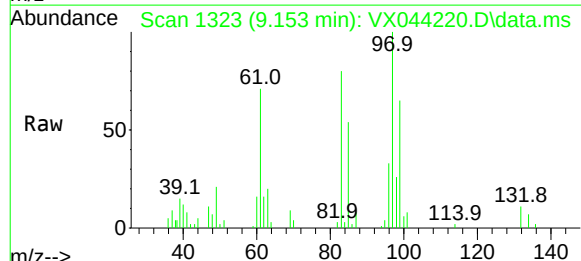
VSTDIC005

Tgt	Ion	97	Resp:	8596
	Ratio	100	Lower	Upper
	97	100		
	83	80.2	65.3	97.9
	85	53.6	44.6	67.0
	99	65.3	50.2	75.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#56

Ethyl methacrylate

Concen: 4.277 ug/l

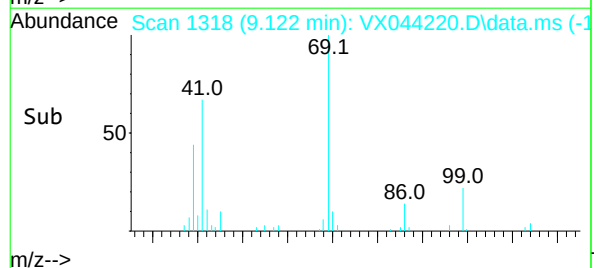
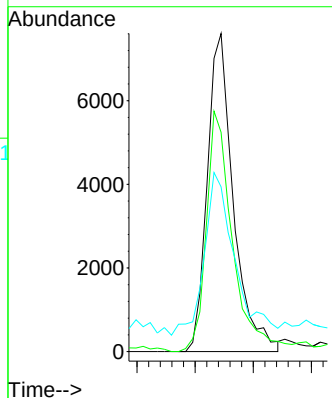
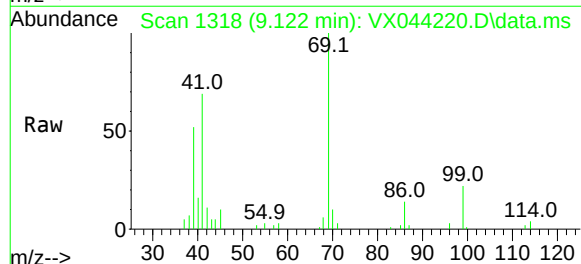
RT: 9.122 min Scan# 1318

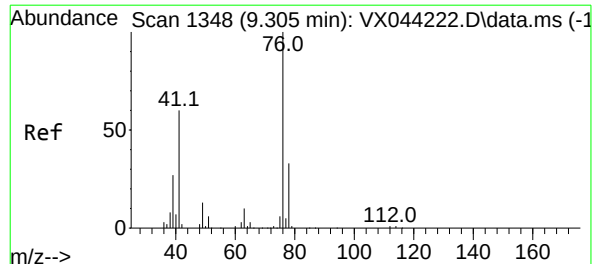
Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Tgt	Ion	69	Resp:	11854
	Ratio	100	Lower	Upper
	69	100		
	41	76.0	56.6	85.0
	39	58.7	37.4	56.0





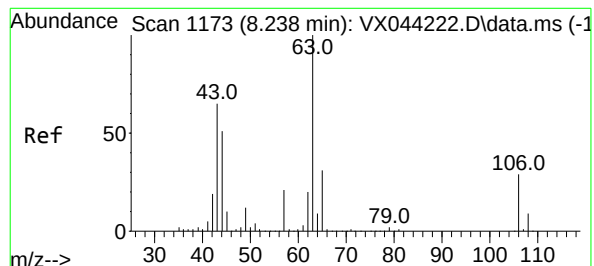
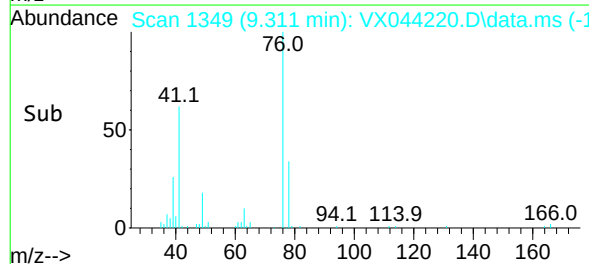
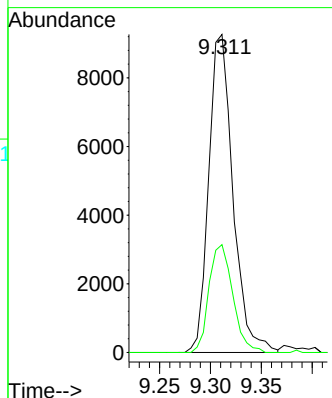
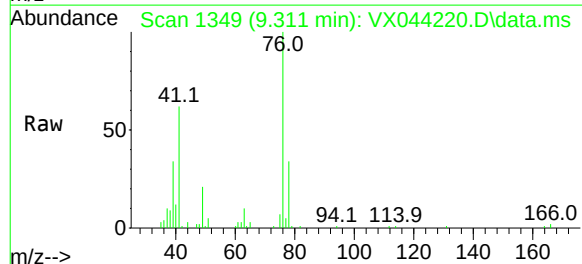
#57
1,3-Dichloropropane
Concen: 5.024 ug/l
RT: 9.311 min Scan# 1348
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 15352
Ion Ratio Lower Upper
76 100
78 33.3 26.5 39.7

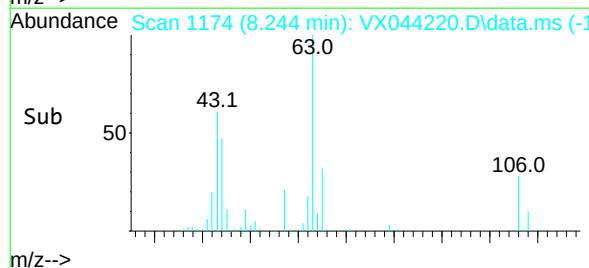
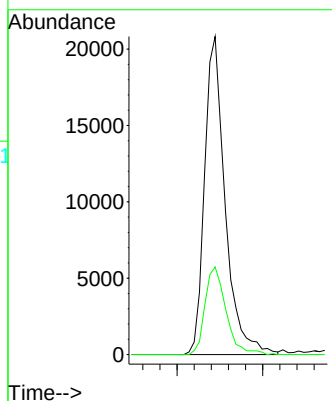
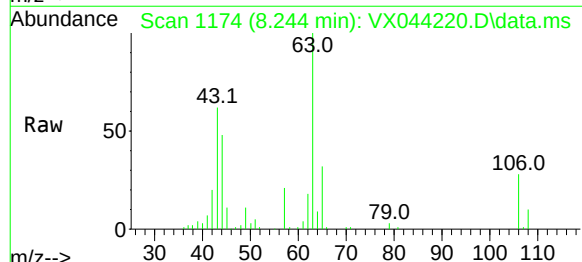
Manual Integrations
APPROVED

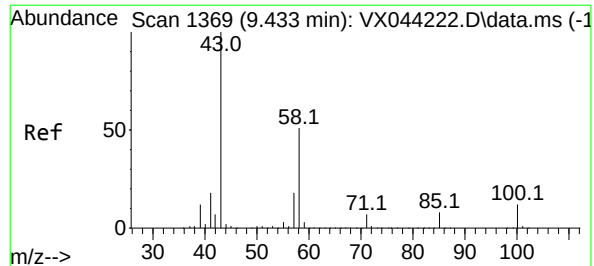
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#58
2-Chloroethyl Vinyl ether
Concen: 24.852 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 63 Resp: 34738
Ion Ratio Lower Upper
63 100
106 28.1 22.8 34.2





#59

2-Hexanone

Concen: 23.994 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 50003

Ion Ratio Lower Upper

43 100

58 48.6 25.7 77.0

Instrument :

MSVOA_X

ClientSampleId :

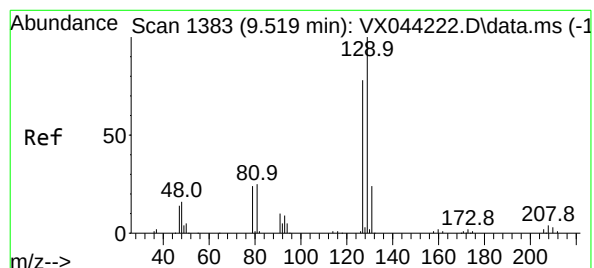
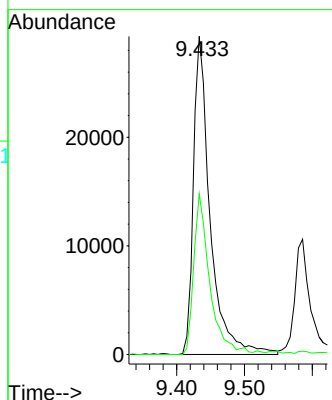
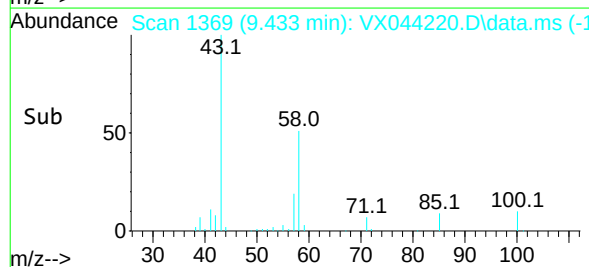
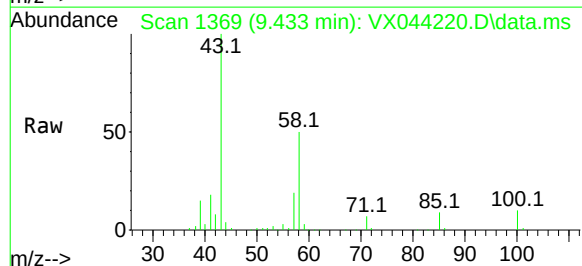
VSTDIC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#60

Dibromochloromethane

Concen: 4.738 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX044220.D

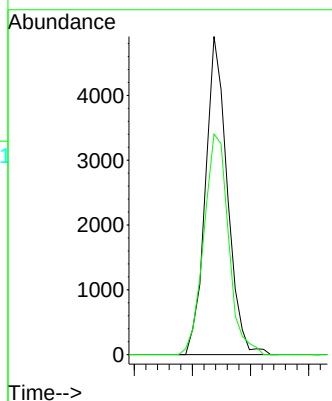
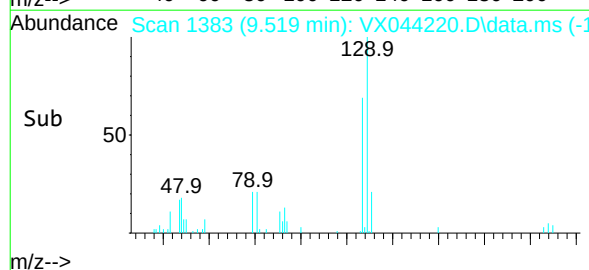
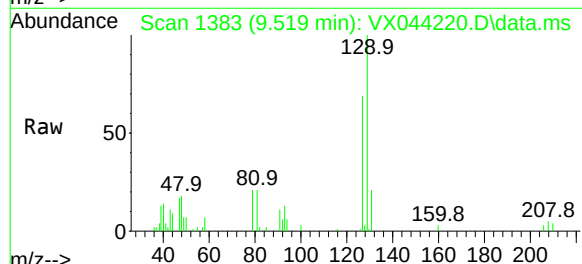
Acq: 11 Dec 2024 11:27

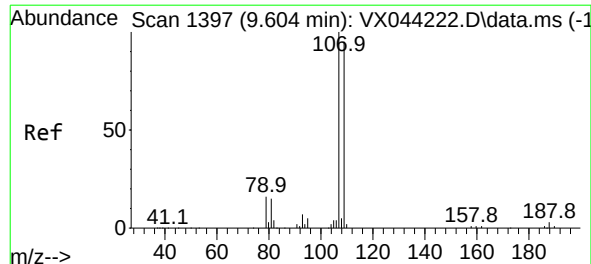
Tgt Ion:129 Resp: 6411

Ion Ratio Lower Upper

129 100

127 78.3 38.5 115.3





#61

1,2-Dibromoethane

Concen: 4.662 ug/l

RT: 9.610 min Scan# 1397

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 107 Resp: 8330

Ion Ratio Lower Upper

107 100

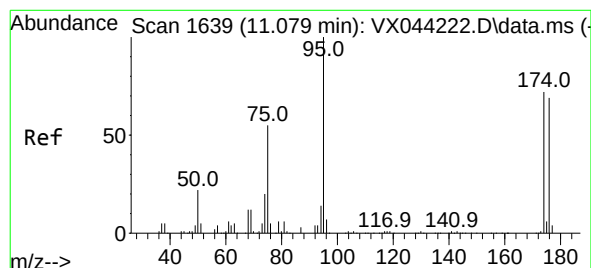
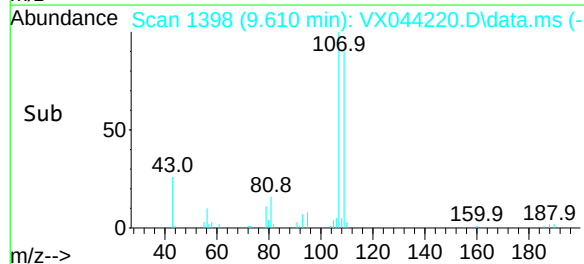
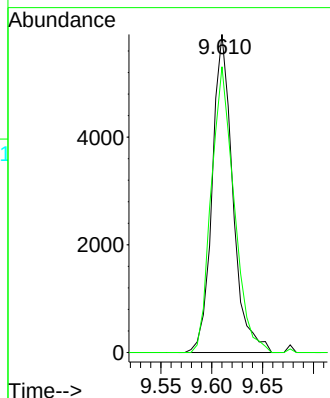
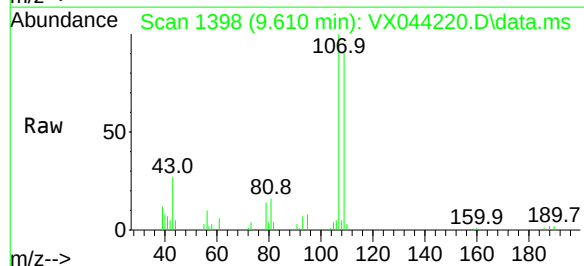
109 99.5 77.0 115.4

Manual Integrations

APPROVED

Reviewed By : John Carlone 12/12/2024

Supervised By : Mahesh Dadoda 12/12/2024



#62

4-Bromofluorobenzene

Concen: 4.779 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

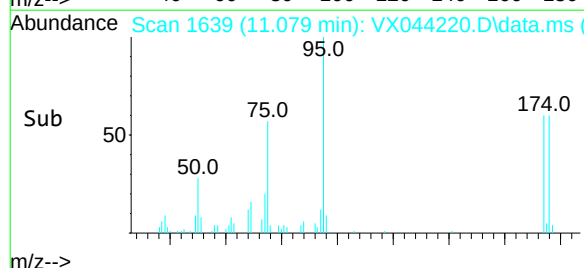
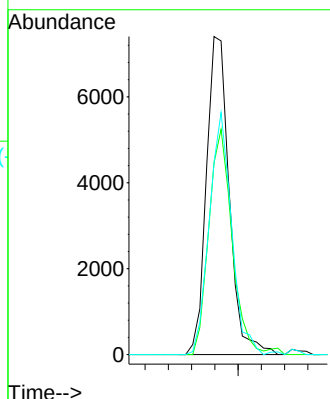
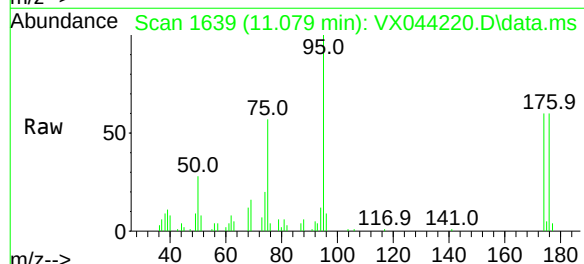
Tgt Ion: 95 Resp: 10101

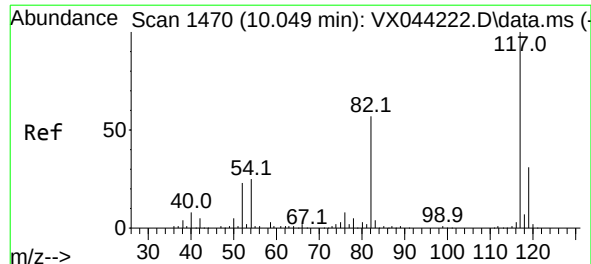
Ion Ratio Lower Upper

95 100

174 72.5 0.0 145.8

176 74.4 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion:117 Resp: 217783

Ion Ratio Lower Upper

117 100

82 55.8 45.8 68.8

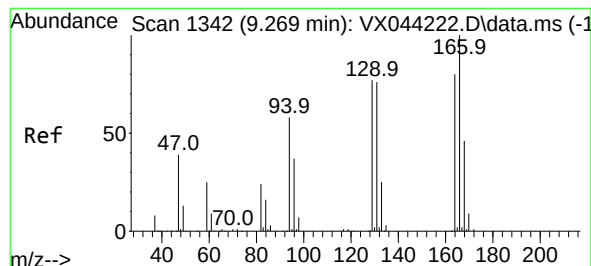
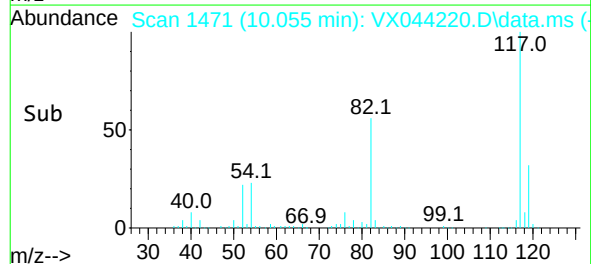
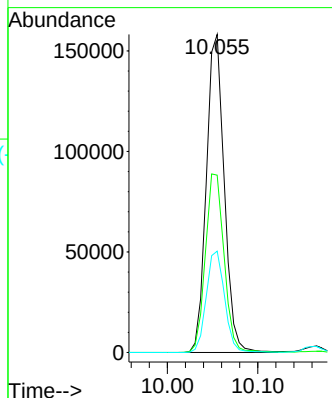
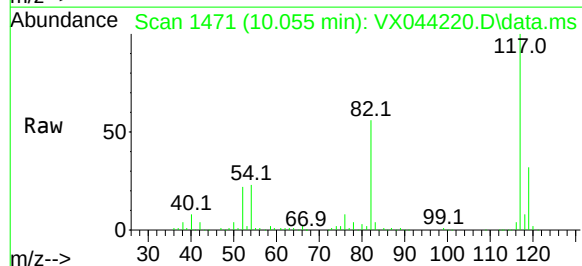
119 31.9 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#64

Tetrachloroethene

Concen: 5.334 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Tgt Ion:164 Resp: 7710

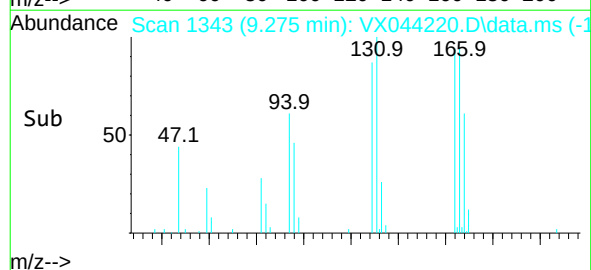
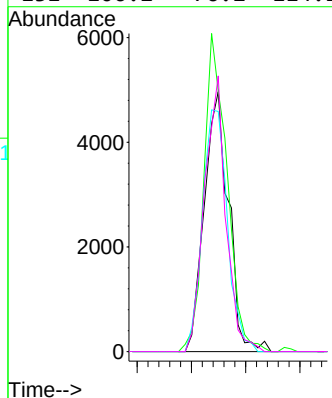
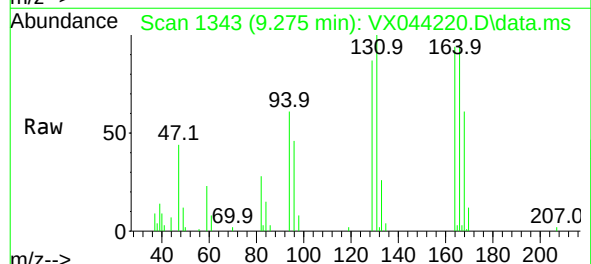
Ion Ratio Lower Upper

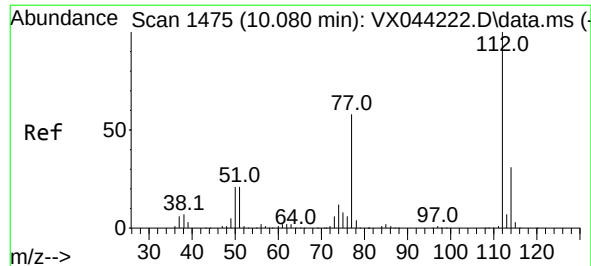
164 100

166 100.3 100.4 150.6#

129 92.5 77.2 115.8

131 106.2 76.2 114.2





#65

Chlorobenzene

Concen: 4.986 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:112 Resp: 23268

Ion Ratio Lower Upper

112 100

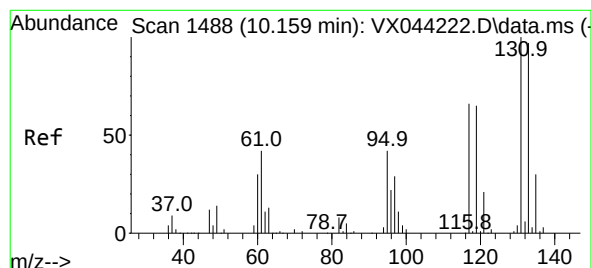
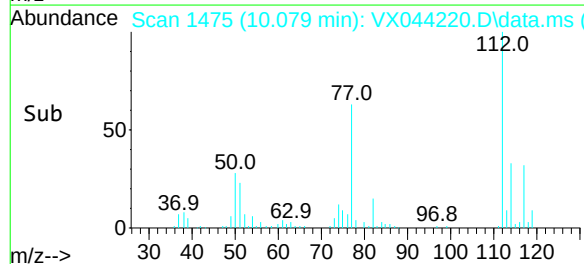
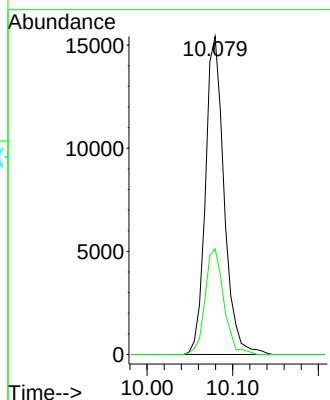
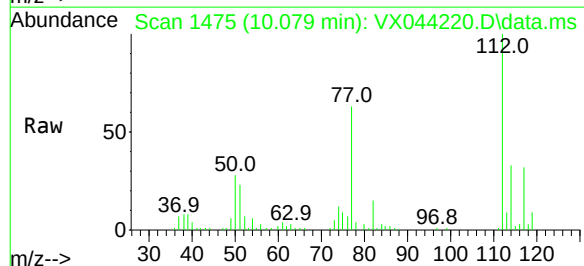
114 33.2 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 4.432 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

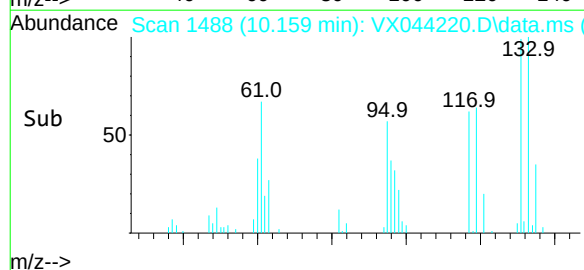
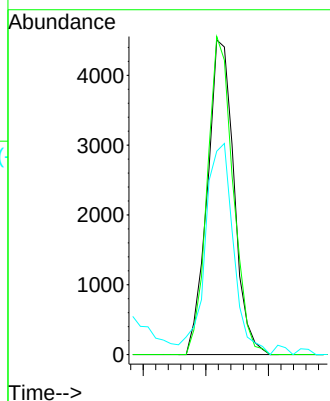
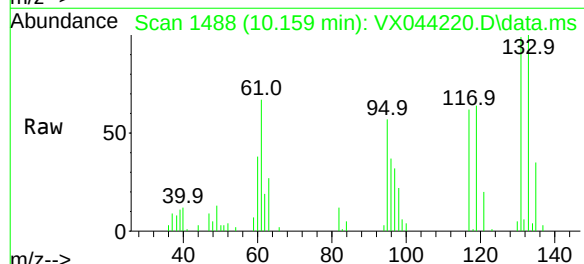
Tgt Ion:131 Resp: 6647

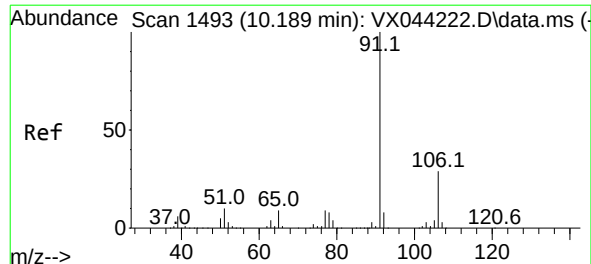
Ion Ratio Lower Upper

131 100

133 97.7 47.3 141.8

119 70.8 31.6 95.0





#67

Ethyl Benzene

Concen: 4.877 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 39326

Ion Ratio Lower Upper

91 100

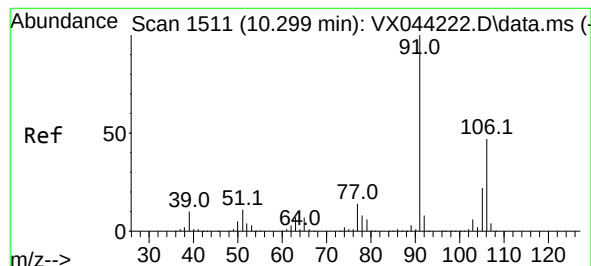
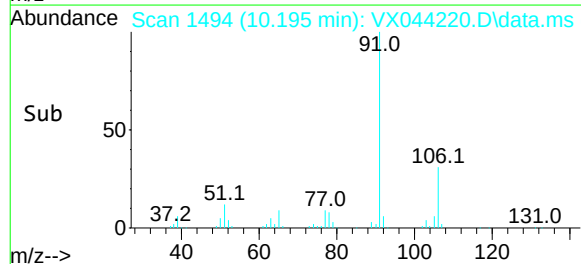
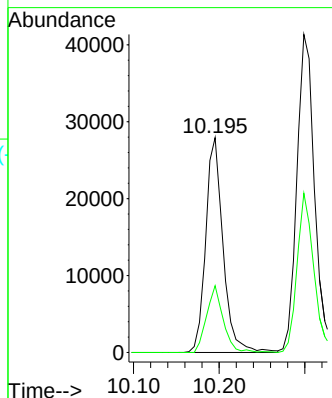
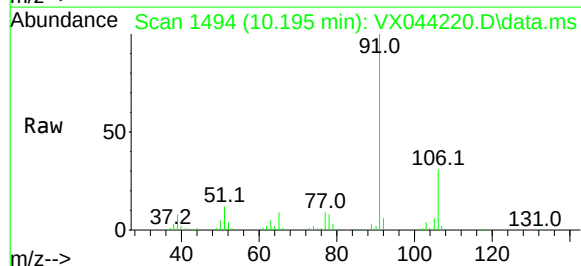
106 31.1 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#68

m/p-Xylenes

Concen: 9.720 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX044220.D

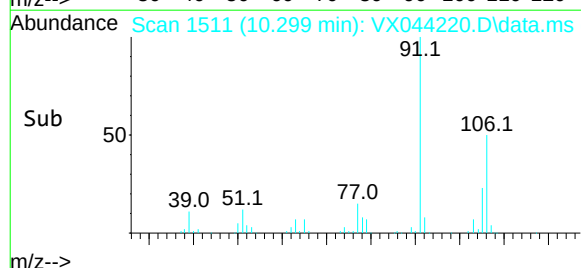
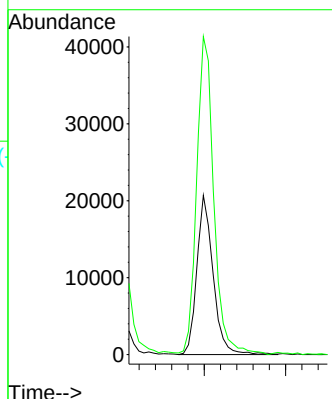
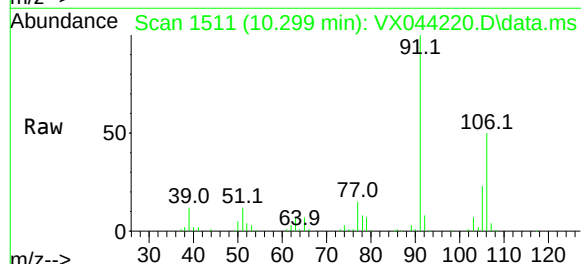
Acq: 11 Dec 2024 11:27

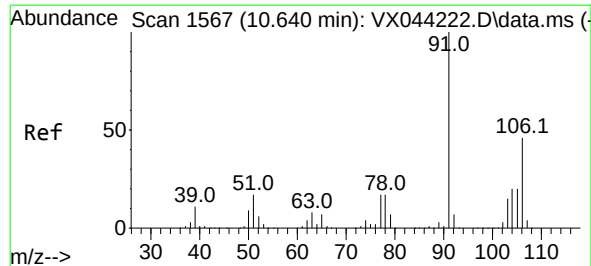
Tgt Ion:106 Resp: 28758

Ion Ratio Lower Upper

106 100

91 210.2 170.2 255.2





#69

o-Xylene

Concen: 4.965 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:106 Resp: 14864

Ion Ratio Lower Upper

106 100

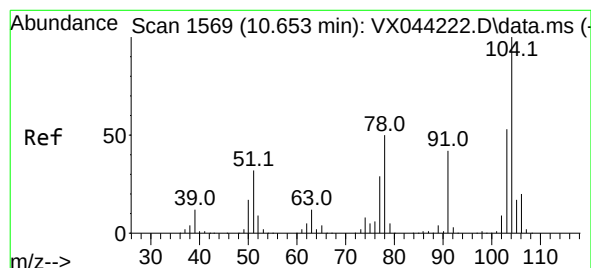
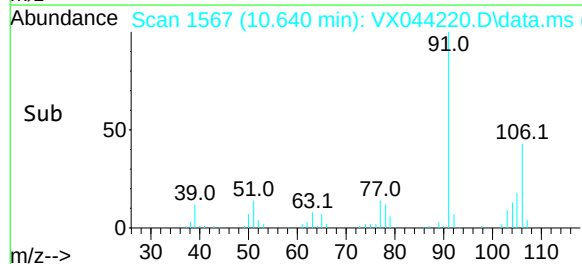
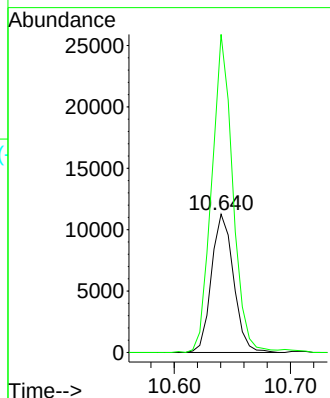
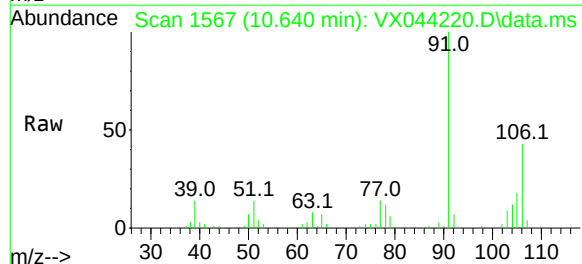
91 219.3 112.3 337.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#70

Styrene

Concen: 4.624 ug/l

RT: 10.659 min Scan# 1570

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

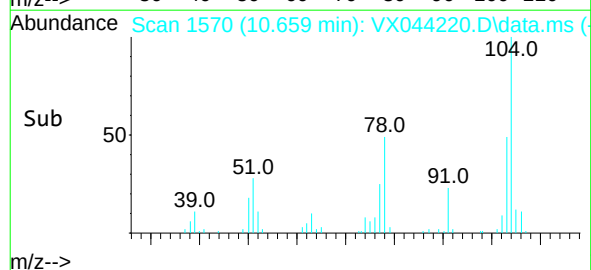
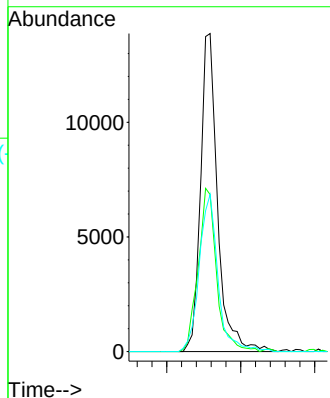
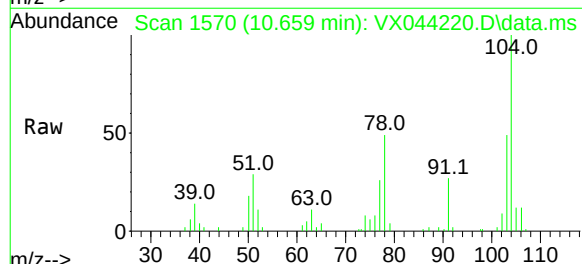
Tgt Ion:104 Resp: 22191

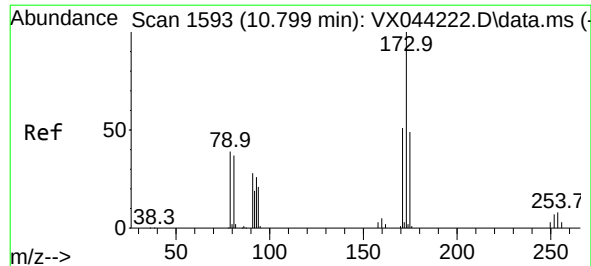
Ion Ratio Lower Upper

104 100

78 55.5 44.6 67.0

103 54.6 45.4 68.0





#71

Bromoform

Concen: 5.118 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

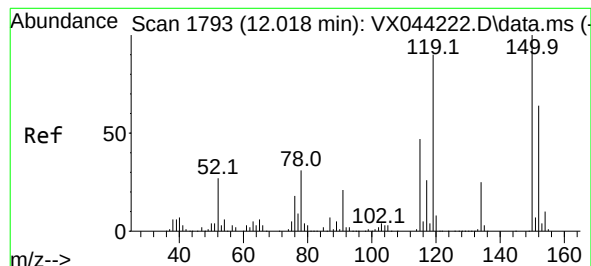
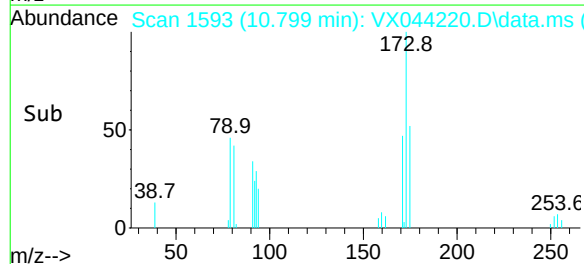
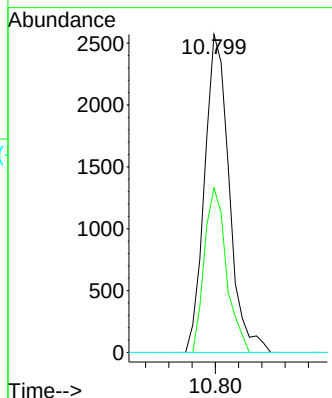
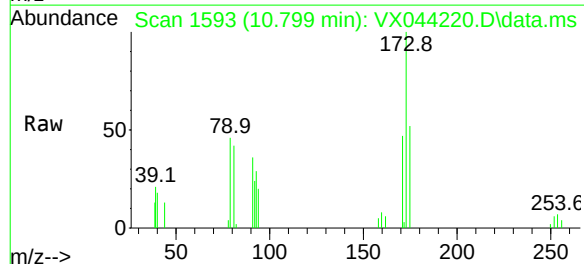
ClientSampleId :

VSTDIC005

Tgt	Ion:173	Resp:	3775
Ion	Ratio	Lower	Upper
173	100		
175	46.3	23.8	71.4
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

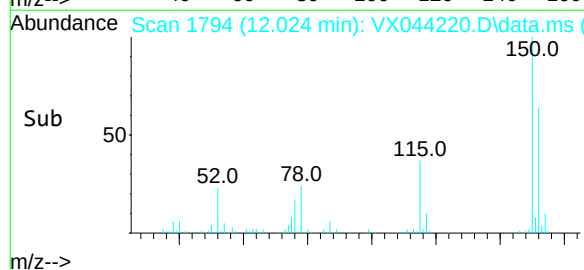
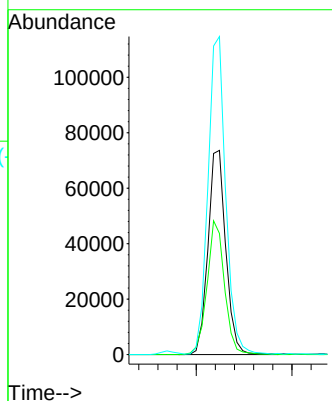
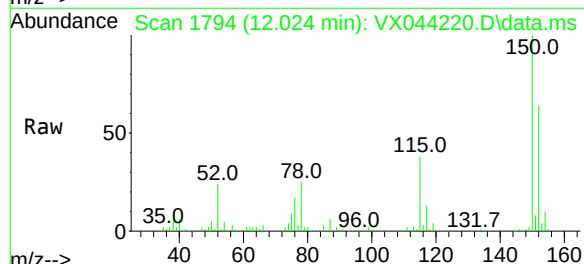
RT: 12.024 min Scan# 1794

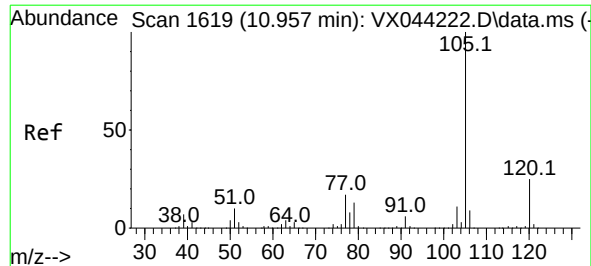
Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Tgt	Ion:152	Resp:	95175
Ion	Ratio	Lower	Upper
152	100		
115	64.2	44.5	133.3
150	154.3	0.0	353.8





#73

Isopropylbenzene

Concen: 5.194 ug/l

RT: 10.963 min Scan# 1619

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 105 Resp: 37843

Ion Ratio Lower Upper

105 100

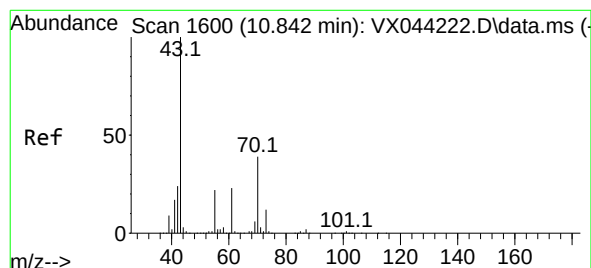
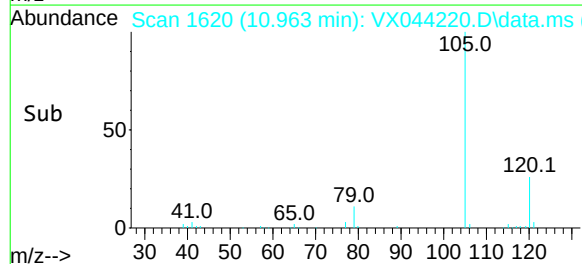
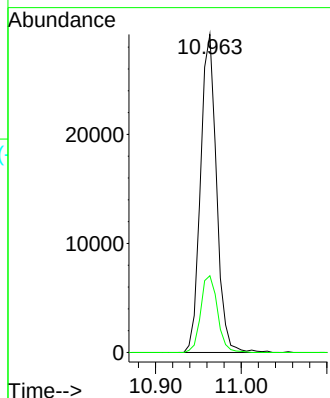
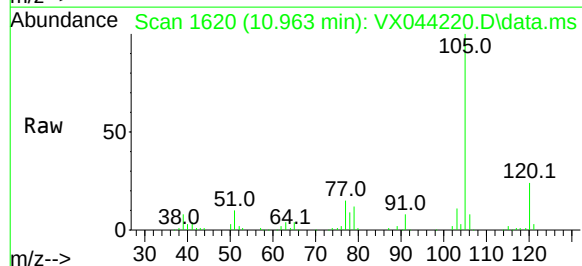
120 25.4 13.1 39.3

Manual Integrations

APPROVED

Reviewed By : John Carlone 12/12/2024

Supervised By : Mahesh Dadoda 12/12/2024



#74

N-ethyl acetate

Concen: 4.579 ug/l

RT: 10.842 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 15418

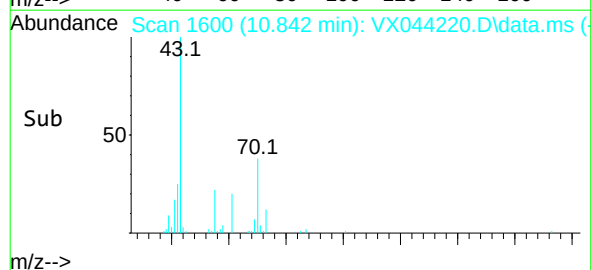
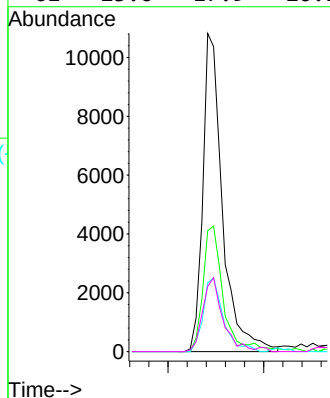
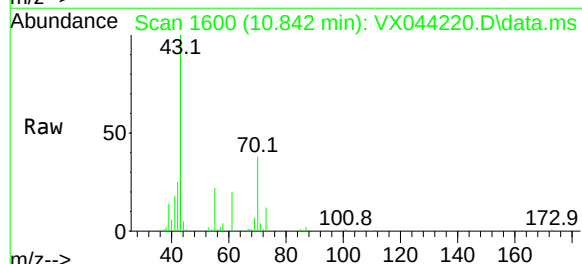
Ion Ratio Lower Upper

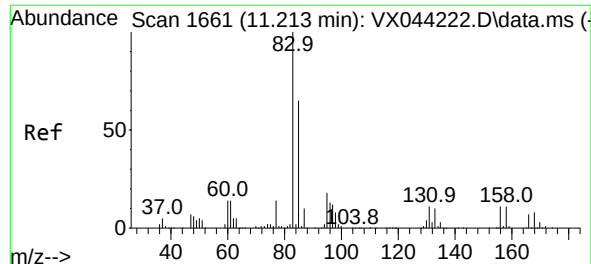
43 100

70 41.2 31.9 47.9

55 23.7 17.9 26.9

61 23.6 17.9 26.9





#75

1,1,2,2-Tetrachloroethane

Concen: 5.077 ug/l

RT: 11.213 min Scan# 1661

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

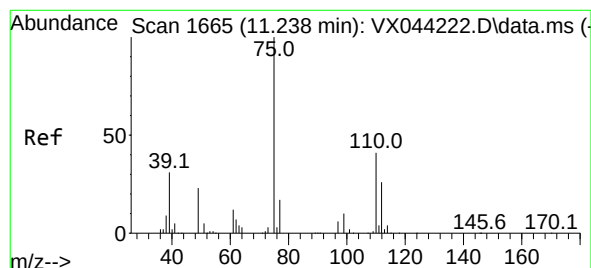
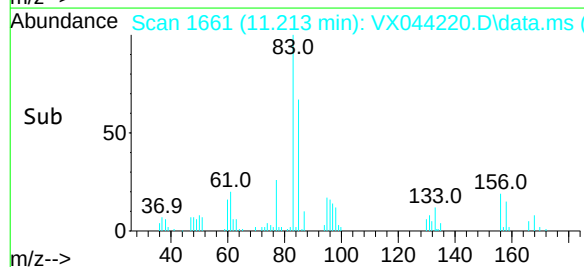
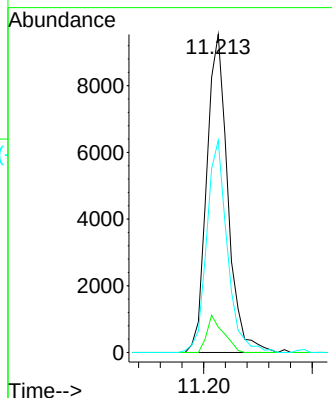
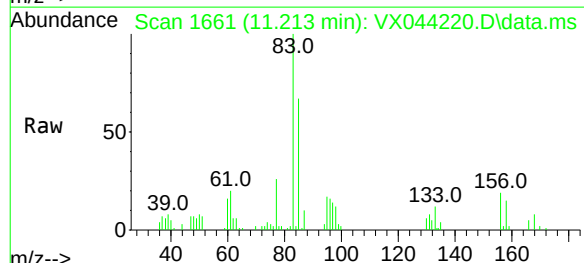
VSTDIC005

Tgt Ion:	83	Resp:	12848
Ion	Ratio	Lower	Upper
83	100		
131	9.1	5.1	15.4
85	65.3	32.5	97.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#76

1,2,3-Trichloropropane

Concen: 4.740 ug/l m

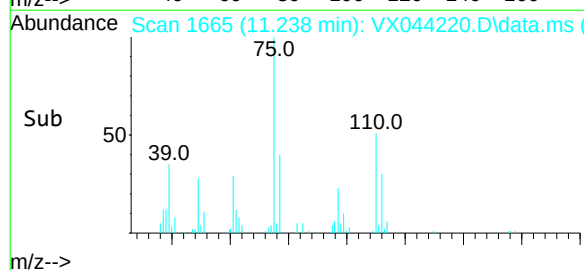
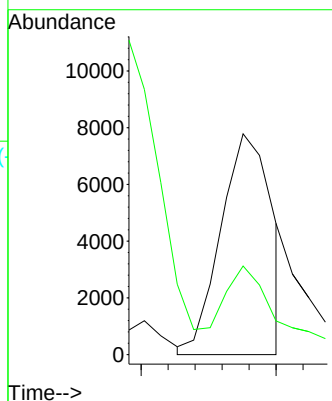
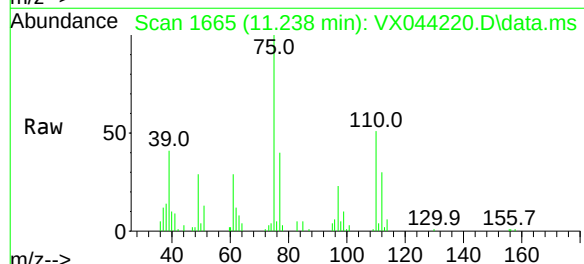
RT: 11.238 min Scan# 1665

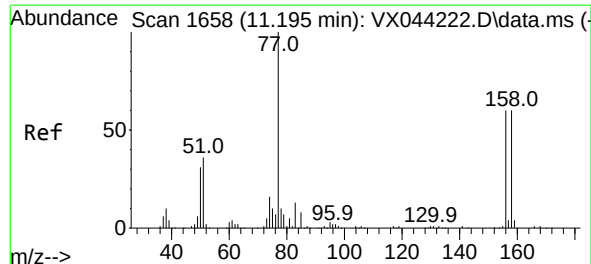
Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Tgt Ion:	75	Resp:	10236
Ion	Ratio	Lower	Upper
75	100		
77	45.4	20.9	62.7





#77

Bromobenzene

Concen: 5.033 ug/l

RT: 11.201 min Scan# 1658

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:156 Resp: 8892

Ion Ratio Lower Upper

156 100

77 165.4 82.6 247.8

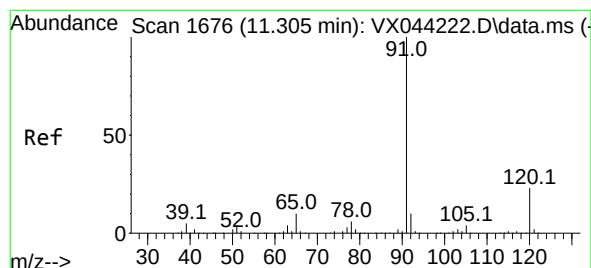
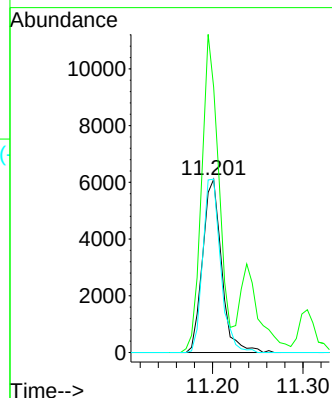
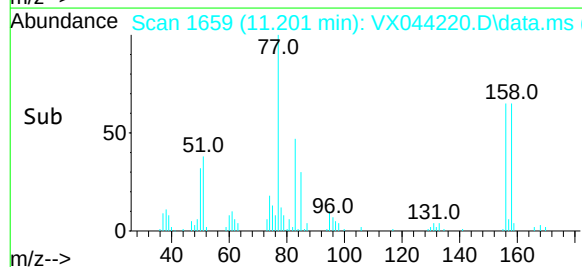
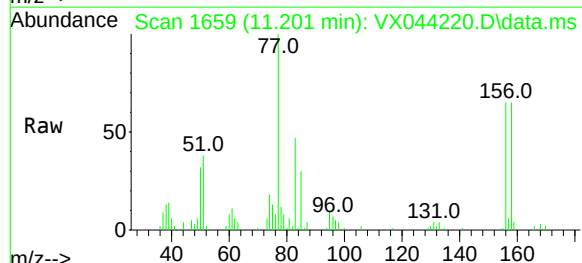
158 94.7 48.8 146.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#78

n-propylbenzene

Concen: 5.038 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. -0.000 min

Lab File: VX044220.D

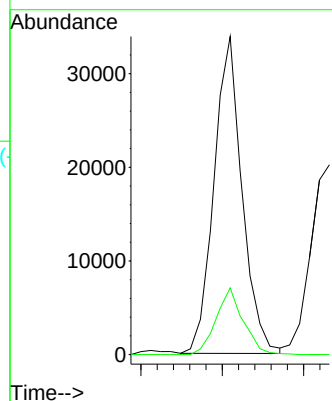
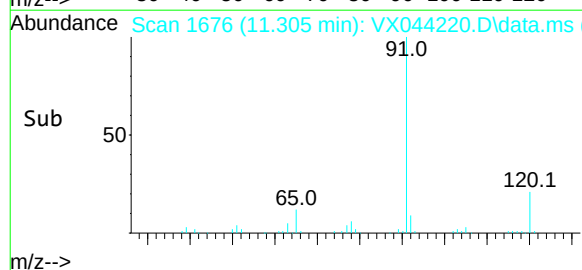
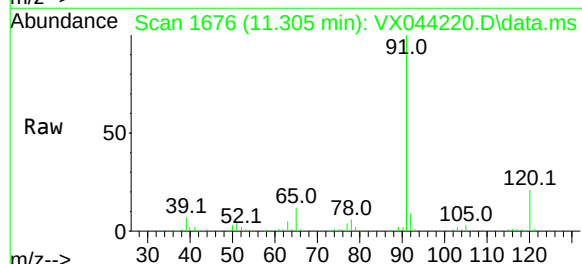
Acq: 11 Dec 2024 11:27

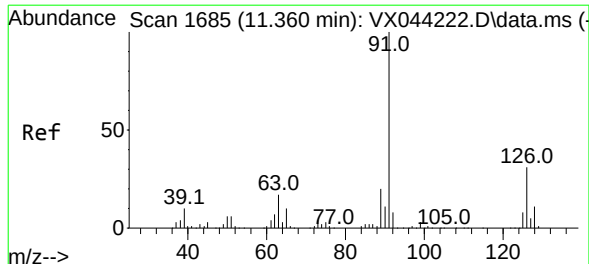
Tgt Ion: 91 Resp: 40574

Ion Ratio Lower Upper

91 100

120 20.3 11.0 33.0





#79

2-Chlorotoluene

Concen: 5.203 ug/l

RT: 11.366 min Scan# 1685

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 27096

Ion Ratio Lower Upper

91 100

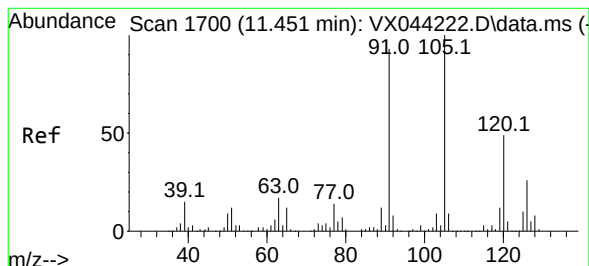
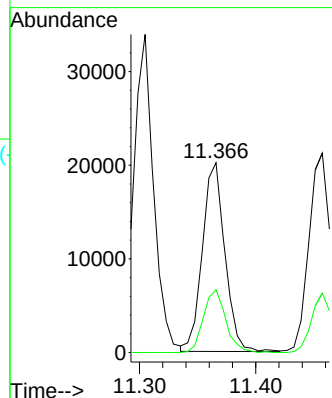
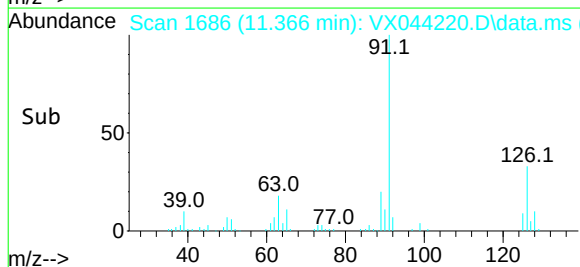
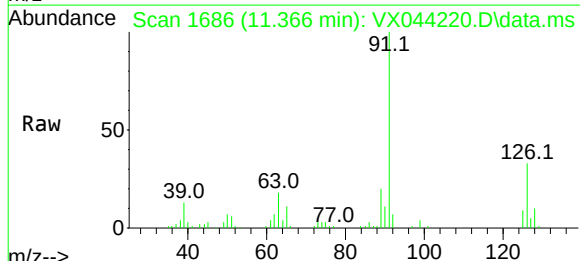
126 33.0 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#80

1,3,5-Trimethylbenzene

Concen: 5.075 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX044220.D

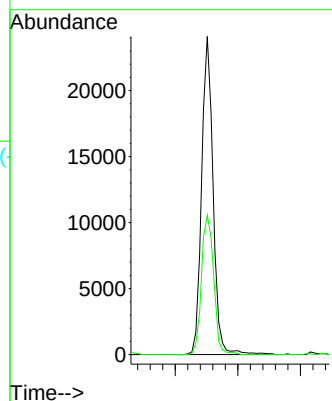
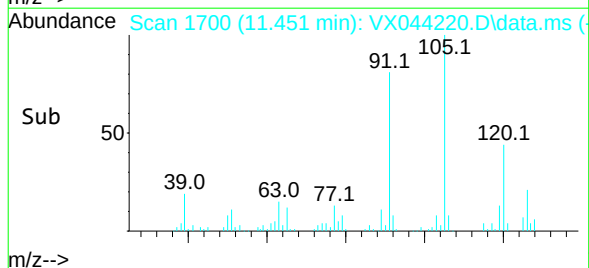
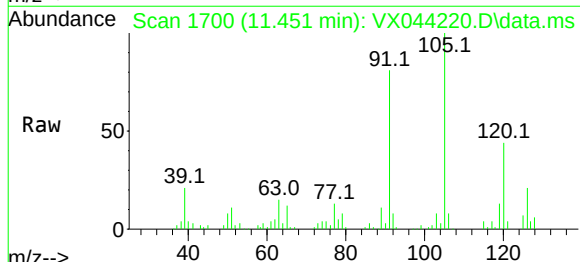
Acq: 11 Dec 2024 11:27

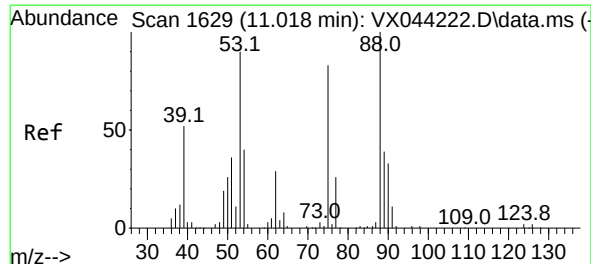
Tgt Ion:105 Resp: 30665

Ion Ratio Lower Upper

105 100

120 46.6 23.8 71.4





#81

trans-1,4-Dichloro-2-butene

Concen: 8.273 ug/l

RT: 11.024 min Scan# 16

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

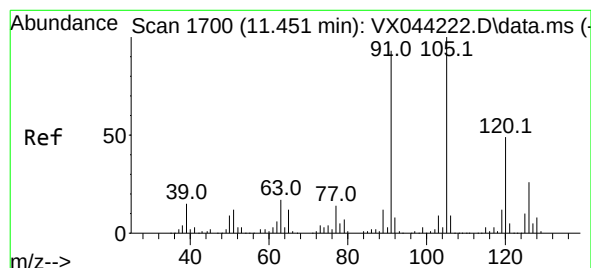
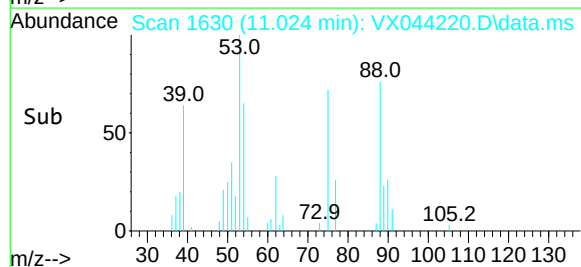
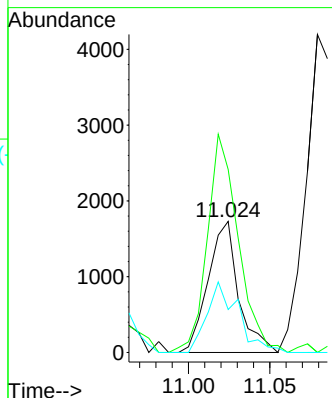
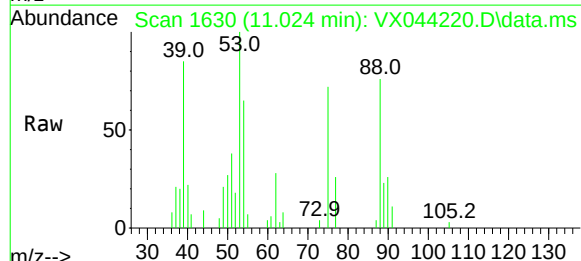
ClientSampleId :

VSTDIC005

Tgt Ion:	75	Resp:	2249
Ion	Ratio	Lower	Upper
75	100		
53	168.9	93.6	140.4
89	55.5	37.3	55.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#82

4-Chlorotoluene

Concen: 5.035 ug/l

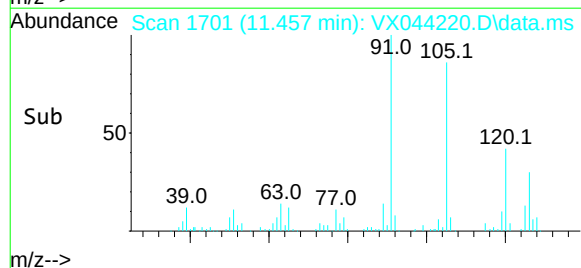
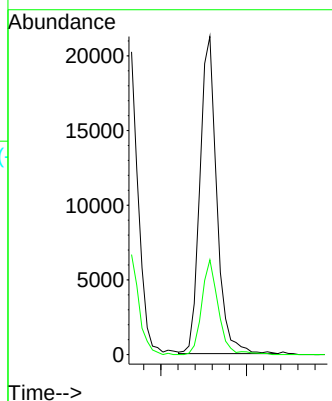
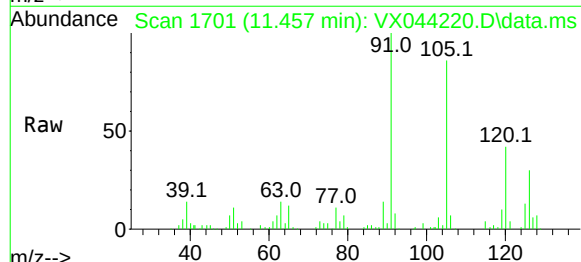
RT: 11.457 min Scan# 1701

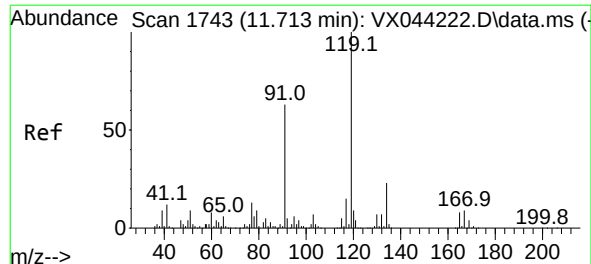
Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Tgt Ion:	91	Resp:	29039
Ion	Ratio	Lower	Upper
91	100		
126	29.3	14.5	43.5





#83

tert-Butylbenzene

Concen: 4.904 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

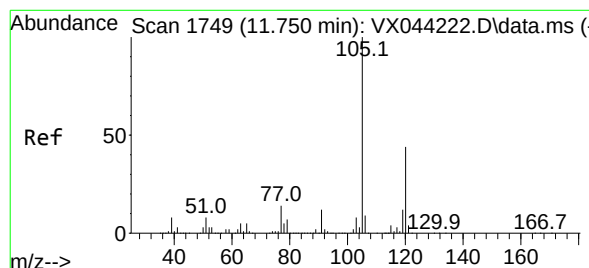
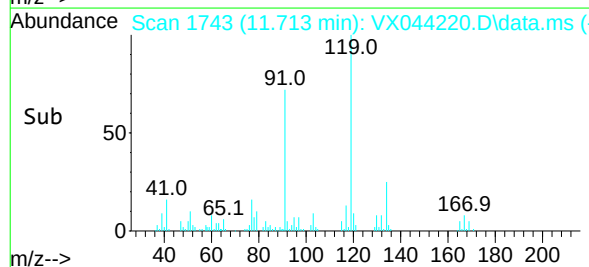
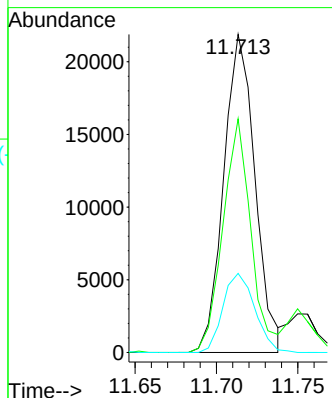
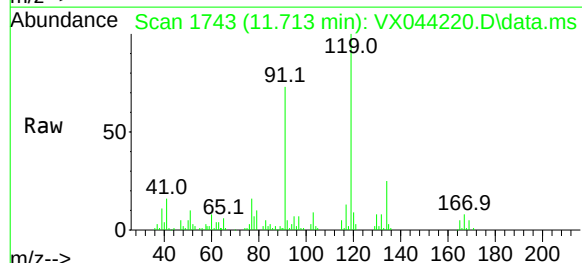
VSTDIC005

Tgt Ion:	119	Resp:	29283
Ion Ratio	Lower	Upper	
119	100		
91	65.9	30.9	92.5
134	25.3	11.5	34.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#84

1,2,4-Trimethylbenzene

Concen: 5.219 ug/l

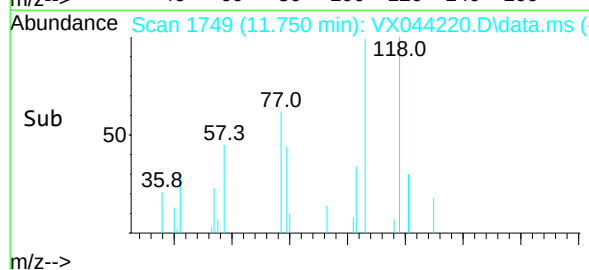
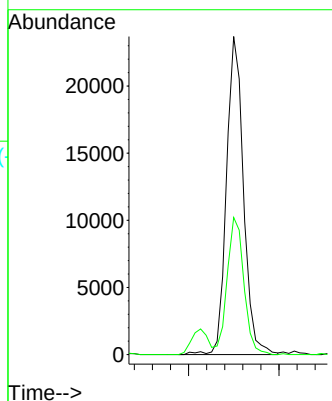
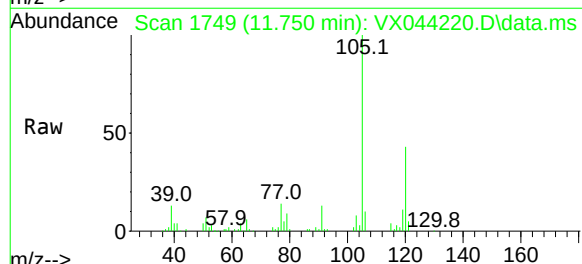
RT: 11.750 min Scan# 1749

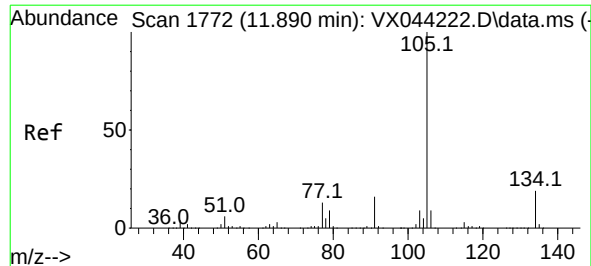
Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Tgt Ion:	105	Resp:	30970
Ion Ratio	Lower	Upper	
105	100		
120	42.6	21.7	65.1





#85

sec-Butylbenzene

Concen: 4.921 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 35670

Ion Ratio Lower Upper

105 100

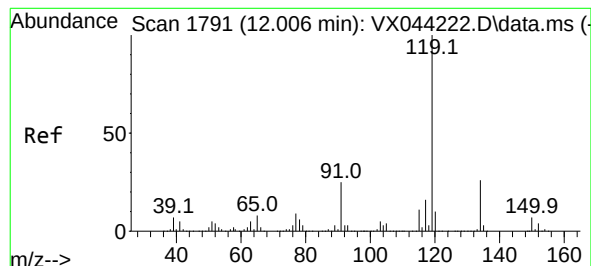
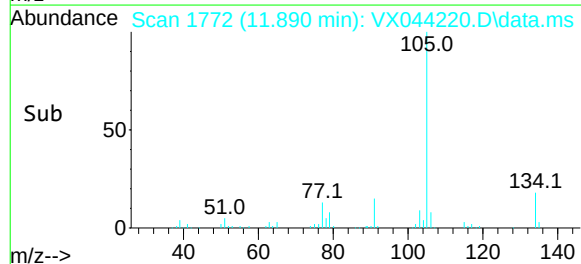
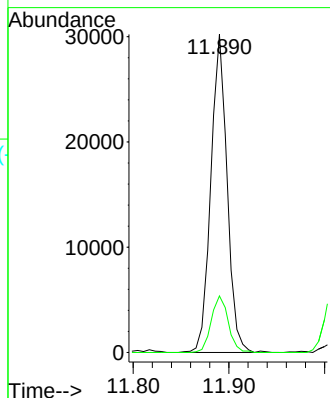
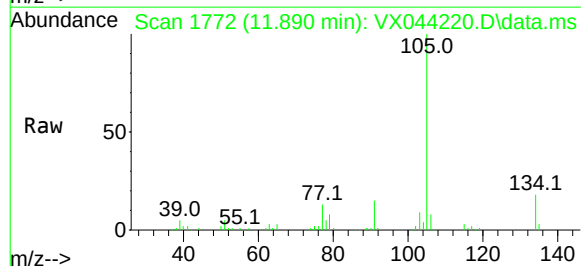
134 18.6 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#86

p-Isopropyltoluene

Concen: 4.828 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

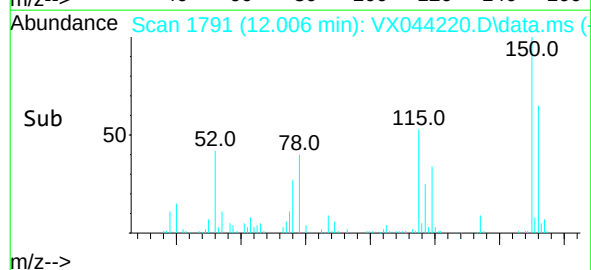
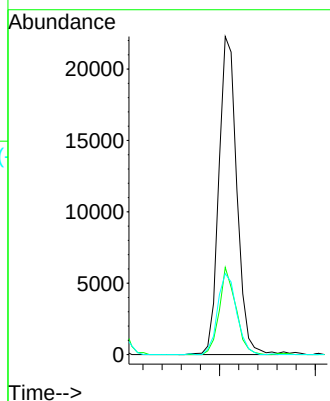
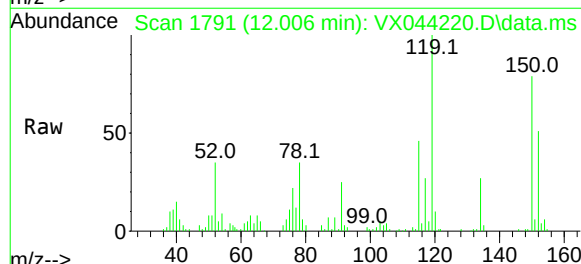
Tgt Ion:119 Resp: 29132

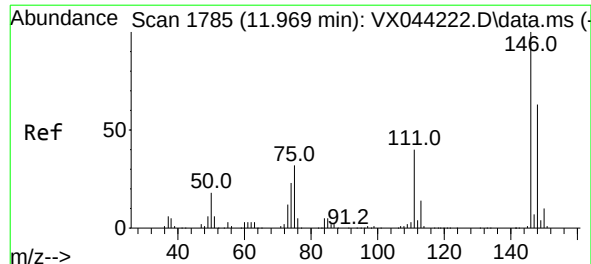
Ion Ratio Lower Upper

119 100

134 25.1 12.8 38.4

91 26.9 13.0 39.0





#87

1,3-Dichlorobenzene

Concen: 5.039 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

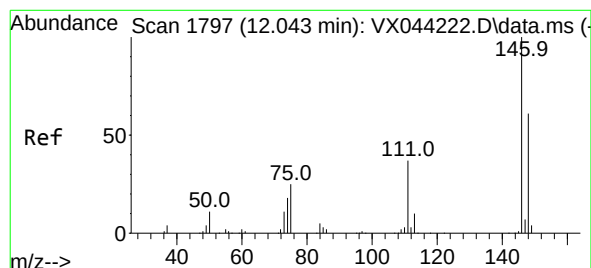
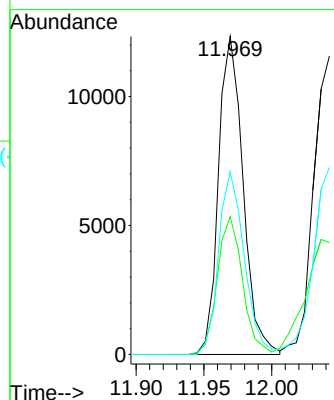
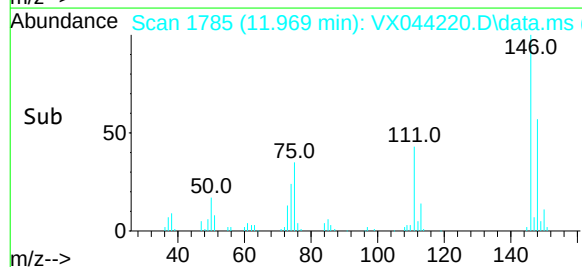
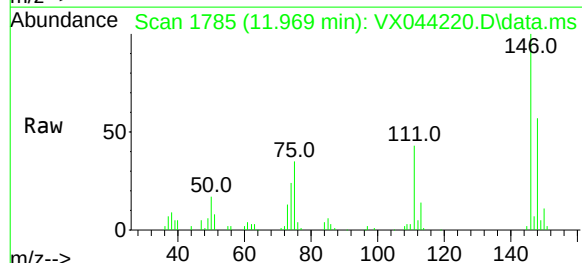
VSTDIC005

Tgt Ion:	146	Resp:	15553
Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.4	64.2
148	60.1	31.7	95.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#88

1,4-Dichlorobenzene

Concen: 4.920 ug/l

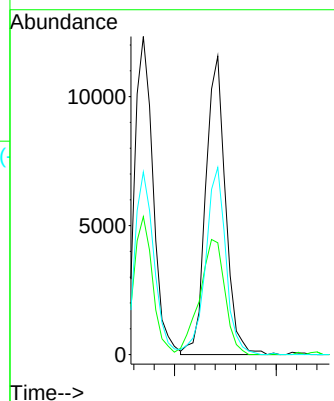
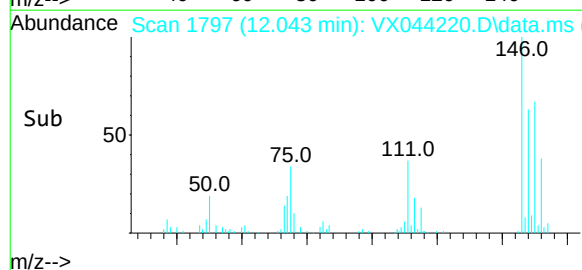
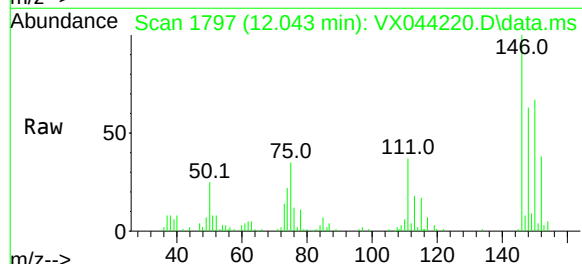
RT: 12.043 min Scan# 1797

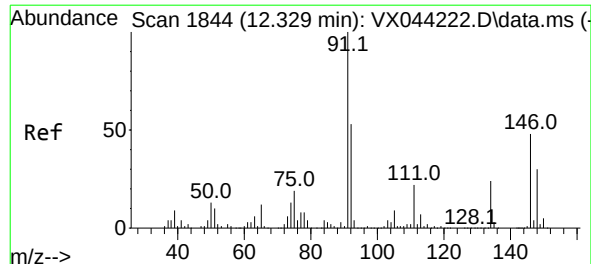
Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Tgt Ion:	146	Resp:	15609
Ion	Ratio	Lower	Upper
146	100		
111	49.5	21.0	63.0
148	64.1	32.3	96.8





#89

n-Butylbenzene

Concen: 4.478 ug/l

RT: 12.335 min Scan# 1844

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 22719

Ion Ratio Lower Upper

91 100

92 51.1 26.6 79.7

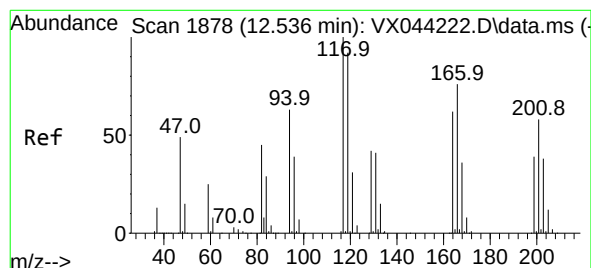
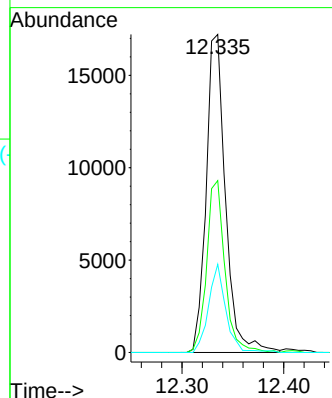
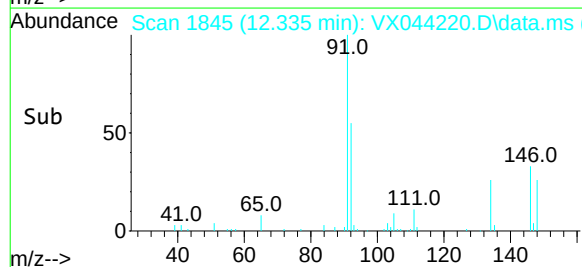
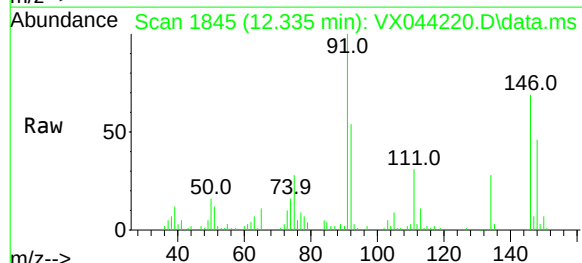
134 24.9 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#90

Hexachloroethane

Concen: 4.275 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX044220.D

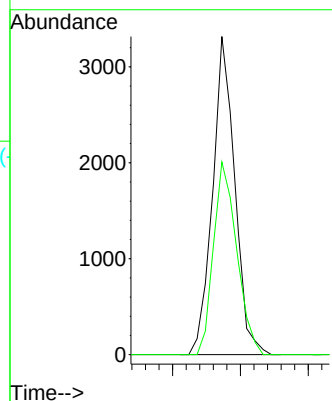
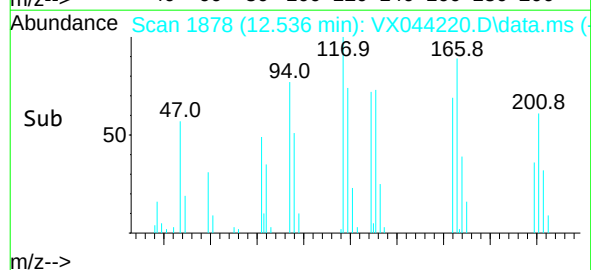
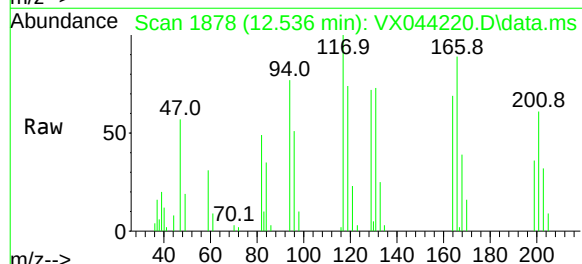
Acq: 11 Dec 2024 11:27

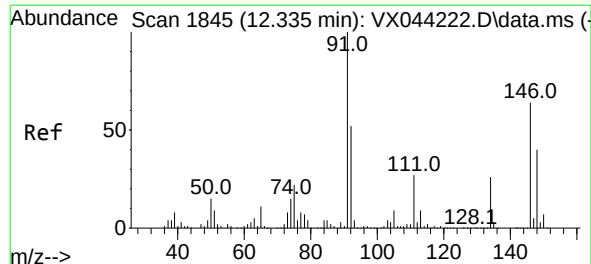
Tgt Ion:117 Resp: 3765

Ion Ratio Lower Upper

117 100

201 63.5 31.4 94.2





#91

1,2-Dichlorobenzene

Concen: 4.949 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 146 Resp: 15858

Ion Ratio Lower Upper

146 100

111 45.8 21.4 64.3

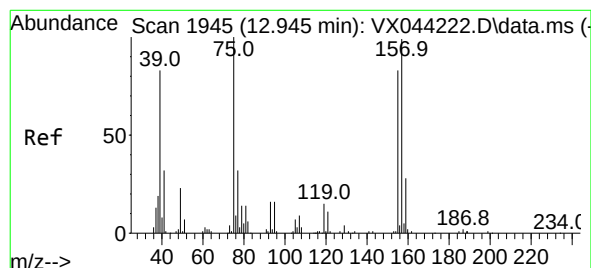
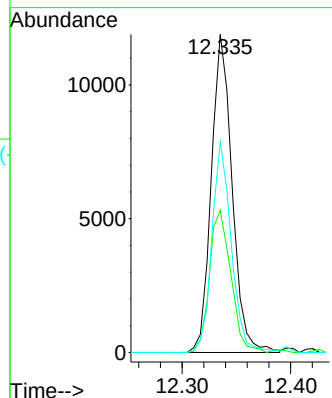
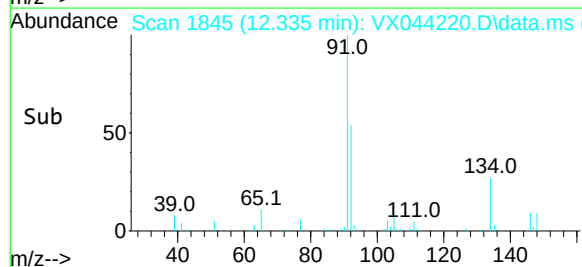
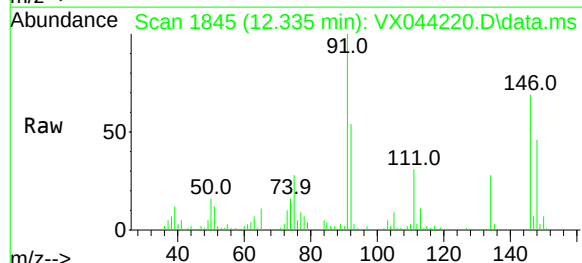
148 62.1 31.6 95.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.385 ug/l

RT: 12.945 min Scan# 1945

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

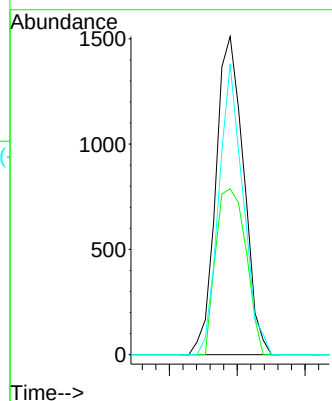
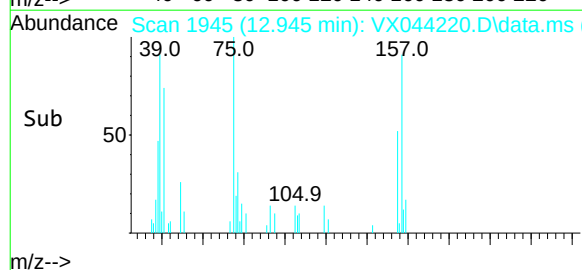
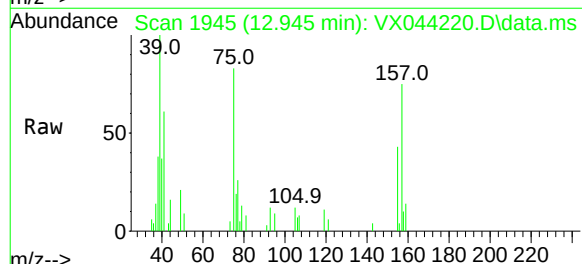
Tgt Ion: 75 Resp: 2154

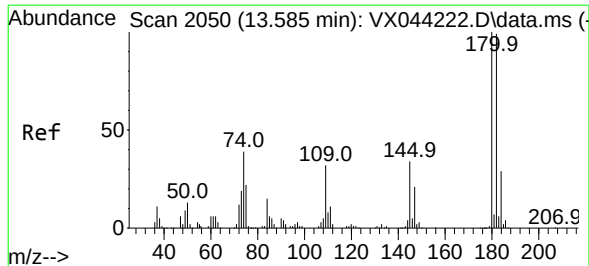
Ion Ratio Lower Upper

75 100

155 56.5 38.1 114.3

157 79.4 47.2 141.6





#93

1,2,4-Trichlorobenzene

Concen: 4.478 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

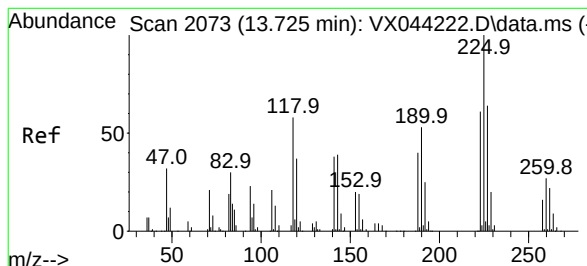
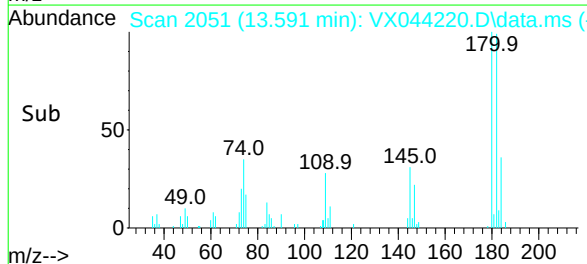
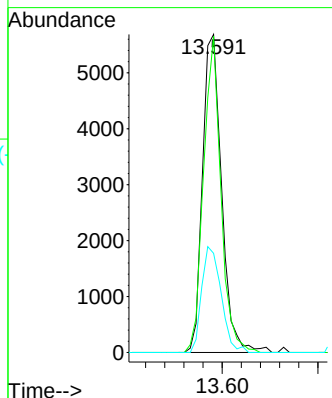
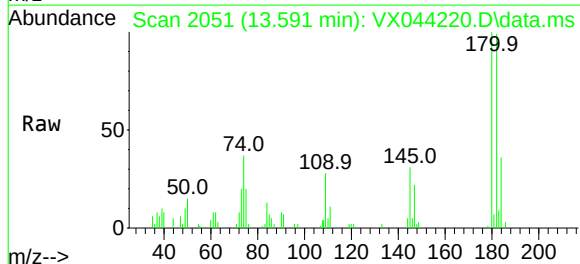
ClientSampleId :

VSTDICC005

Tgt	Ion:180	Resp:	7867
Ion	Ratio	Lower	Upper
180	100		
182	90.8	48.0	144.2
145	33.9	16.6	49.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#94

Hexachlorobutadiene

Concen: 4.700 ug/l

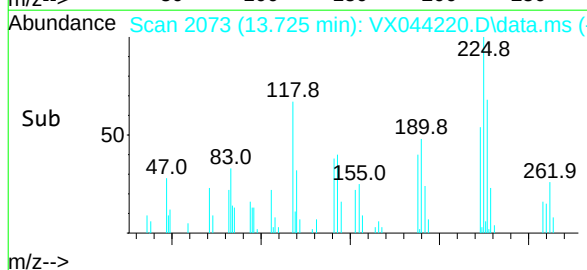
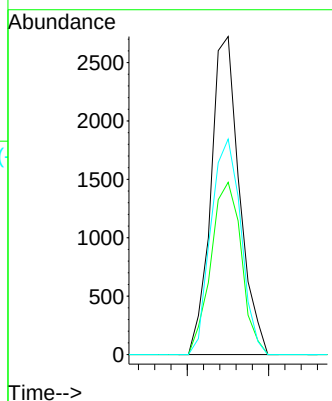
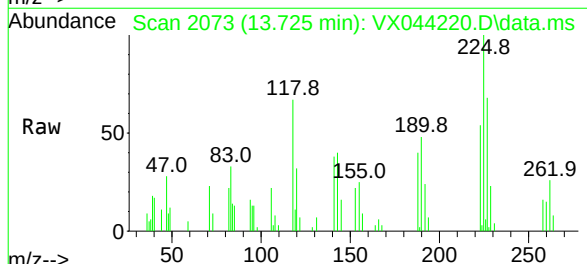
RT: 13.725 min Scan# 2073

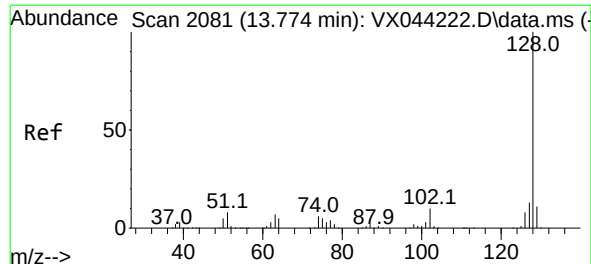
Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Tgt	Ion:225	Resp:	3321
Ion	Ratio	Lower	Upper
225	100		
223	57.9	30.8	92.4
227	71.2	32.1	96.3





#95

Naphthalene

Concen: 4.643 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion:128 Resp: 31842

Ion Ratio Lower Upper

128 100

127 13.2 10.5 15.7

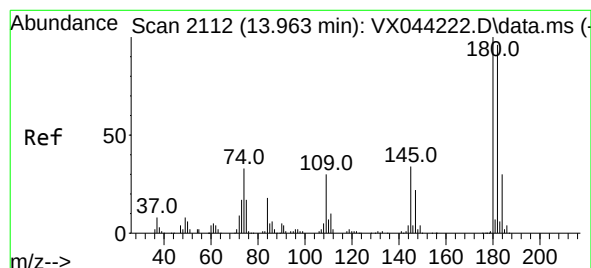
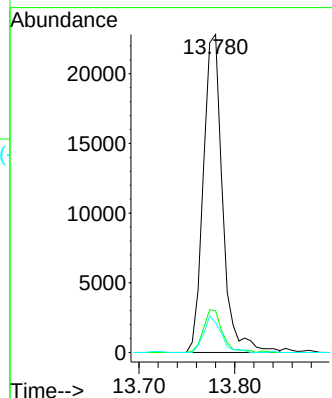
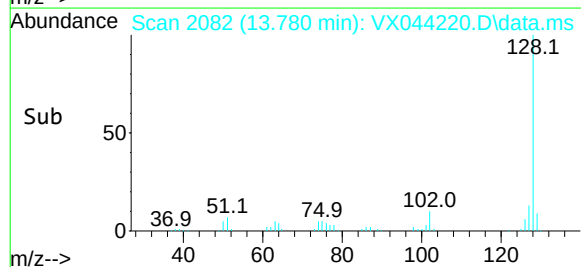
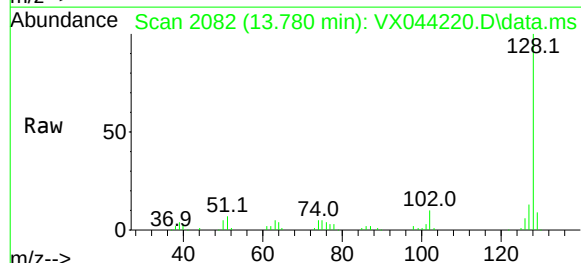
129 10.3 9.0 13.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#96

1,2,3-Trichlorobenzene

Concen: 4.520 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

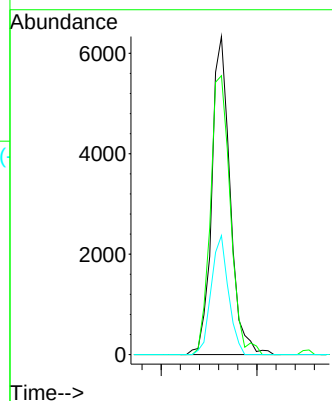
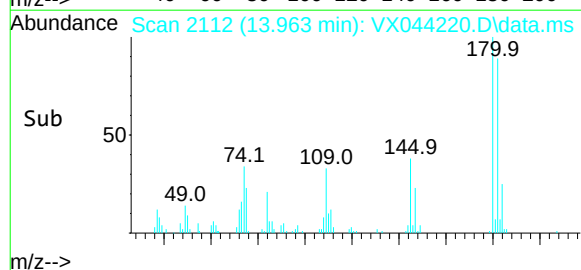
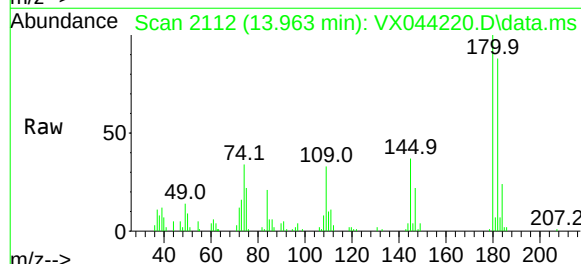
Tgt Ion:180 Resp: 8422

Ion Ratio Lower Upper

180 100

182 95.3 48.0 144.0

145 35.2 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044221.D
 Acq On : 11 Dec 2024 11:50
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Quant Time: Dec 12 04:14:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:11:59 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 12/12/2024
 Supervised By : Mahesh Dadoda 12/12/2024

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	134436	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	254199	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	218148	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	98180	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	41821	17.743	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	35.480%#		
35) Dibromofluoromethane	5.391	113	30304	17.213	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	34.420%#		
50) Toluene-d8	8.647	98	102660	17.284	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	34.560%#		
62) 4-Bromofluorobenzene	11.079	95	35645	17.175	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	34.340%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	38748	18.640	ug/l	90
3) Chloromethane	1.294	50	39546	19.894	ug/l	100
4) Vinyl Chloride	1.374	62	42048	20.304	ug/l	97
5) Bromomethane	1.593	94	27604	18.789	ug/l	94
6) Chloroethane	1.666	64	27673	21.460	ug/l	94
7) Trichlorofluoromethane	1.867	101	81398	20.077	ug/l	99
8) Diethyl Ether	2.136	74	25884	18.704	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	31846	19.412	ug/l	99
10) Methyl Iodide	2.441	142	42786	19.788	ug/l	99
11) Tert butyl alcohol	3.001	59	29819m	89.904	ug/l	
12) 1,1-Dichloroethene	2.306	96	29241	19.405	ug/l	92
13) Acrolein	2.239	56	43909	91.311	ug/l	97
14) Allyl chloride	2.654	41	47218	18.813	ug/l	98
15) Acrylonitrile	3.068	53	89249	96.988	ug/l	99
16) Acetone	2.392	43	88985	92.601	ug/l	95
17) Carbon Disulfide	2.502	76	50399	17.595	ug/l	98
18) Methyl Acetate	2.709	43	47509	19.175	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	114371	19.450	ug/l	100
20) Methylene Chloride	2.782	84	35820	19.846	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	31036	19.380	ug/l	97
22) Diisopropyl ether	3.764	45	112511	19.907	ug/l	94
23) Vinyl Acetate	3.721	43	465716	101.354	ug/l	100
24) 1,1-Dichloroethane	3.605	63	62059	19.699	ug/l	98
25) 2-Butanone	4.568	43	136992	100.277	ug/l	99
26) 2,2-Dichloropropane	4.471	77	51431	20.095	ug/l #	74
27) cis-1,2-Dichloroethene	4.477	96	39161	19.254	ug/l	99
28) Bromochloromethane	4.891	49	30977	20.052	ug/l	95
29) Tetrahydrofuran	5.013	42	86235	98.343	ug/l	99
30) Chloroform	5.093	83	68410	19.327	ug/l	97
31) Cyclohexane	5.458	56	51773	20.351	ug/l	93
32) 1,1,1-Trichloroethane	5.373	97	57900	19.706	ug/l	99
36) 1,1-Dichloropropene	5.690	75	42878	18.841	ug/l	99
37) Ethyl Acetate	4.727	43	56019	19.913	ug/l	99
38) Carbon Tetrachloride	5.672	117	43901	17.918	ug/l	92
39) Methylcyclohexane	7.379	83	53536	19.678	ug/l	97
40) Benzene	6.031	78	135467	19.606	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044221.D
 Acq On : 11 Dec 2024 11:50
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Quant Time: Dec 12 04:14:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:11:59 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
 Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	28523	19.095	ug/l	94
42) 1,2-Dichloroethane	6.086	62	55377	19.456	ug/l	98
43) Isopropyl Acetate	6.342	43	84866	19.301	ug/l	100
44) Trichloroethene	7.123	130	32995	19.149	ug/l	96
45) 1,2-Dichloropropane	7.427	63	33585	19.025	ug/l	97
46) Dibromomethane	7.580	93	26293	19.199	ug/l	99
47) Bromodichloromethane	7.818	83	44312	18.735	ug/l	99
48) Methyl methacrylate	7.696	41	40620	19.032	ug/l	98
49) 1,4-Dioxane	7.671	88	14281m	391.518	ug/l	
51) 4-Methyl-2-Pentanone	8.574	43	278267	98.429	ug/l	100
52) Toluene	8.714	92	82934	19.113	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	44614	18.785	ug/l	98
54) cis-1,3-Dichloropropene	8.366	75	49596	19.258	ug/l	91
55) 1,1,2-Trichloroethane	9.147	97	34013	19.732	ug/l	98
56) Ethyl methacrylate	9.116	69	52571	19.318	ug/l	99
57) 1,3-Dichloropropane	9.305	76	59489	19.827	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	129900	94.642	ug/l	100
59) 2-Hexanone	9.433	43	207578	101.440	ug/l	99
60) Dibromochloromethane	9.519	129	31066	18.318	ug/l	97
61) 1,2-Dibromoethane	9.610	107	34978	19.935	ug/l	98
64) Tetrachloroethene	9.275	164	27702	19.133	ug/l	97
65) Chlorobenzene	10.079	112	90631	19.389	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.165	131	29132	19.392	ug/l	99
67) Ethyl Benzene	10.195	91	158455	19.619	ug/l	98
68) m/p-Xylenes	10.299	106	116126	39.183	ug/l	98
69) o-Xylene	10.640	106	59787	19.938	ug/l	99
70) Styrene	10.653	104	95883	19.946	ug/l	98
71) Bromoform	10.799	173	16924	18.112	ug/l #	96
73) Isopropylbenzene	10.963	105	153935	20.481	ug/l	98
74) N-amyl acetate	10.842	43	69643	20.049	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.213	83	52312	20.039	ug/l	97
76) 1,2,3-Trichloropropane	11.238	75	43726m	19.627	ug/l	
77) Bromobenzene	11.195	156	34951	19.176	ug/l	98
78) n-propylbenzene	11.305	91	169622	20.419	ug/l	100
79) 2-Chlorotoluene	11.366	91	106310	19.788	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	126626	20.315	ug/l	97
81) trans-1,4-Dichloro-2-b...	11.018	75	11784	19.264	ug/l	90
82) 4-Chlorotoluene	11.451	91	118309	19.886	ug/l	100
83) tert-Butylbenzene	11.713	119	121929	19.794	ug/l	95
84) 1,2,4-Trimethylbenzene	11.750	105	125939	20.574	ug/l	99
85) sec-Butylbenzene	11.890	105	150795	20.165	ug/l	99
86) p-Isopropyltoluene	12.006	119	127790	20.532	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	64399	20.228	ug/l	98
88) 1,4-Dichlorobenzene	12.043	146	64106	19.588	ug/l	99
89) n-Butylbenzene	12.329	91	104410	19.950	ug/l	99
90) Hexachloroethane	12.536	117	15939	17.543	ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	65511	19.817	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	9468	18.683	ug/l	97
93) 1,2,4-Trichlorobenzene	13.591	180	35001	19.313	ug/l	99
94) Hexachlorobutadiene	13.725	225	14415	19.774	ug/l	97
95) Naphthalene	13.774	128	142515	20.146	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	38639	20.101	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044221.D
Acq On : 11 Dec 2024 11:50
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Dec 12 04:14:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

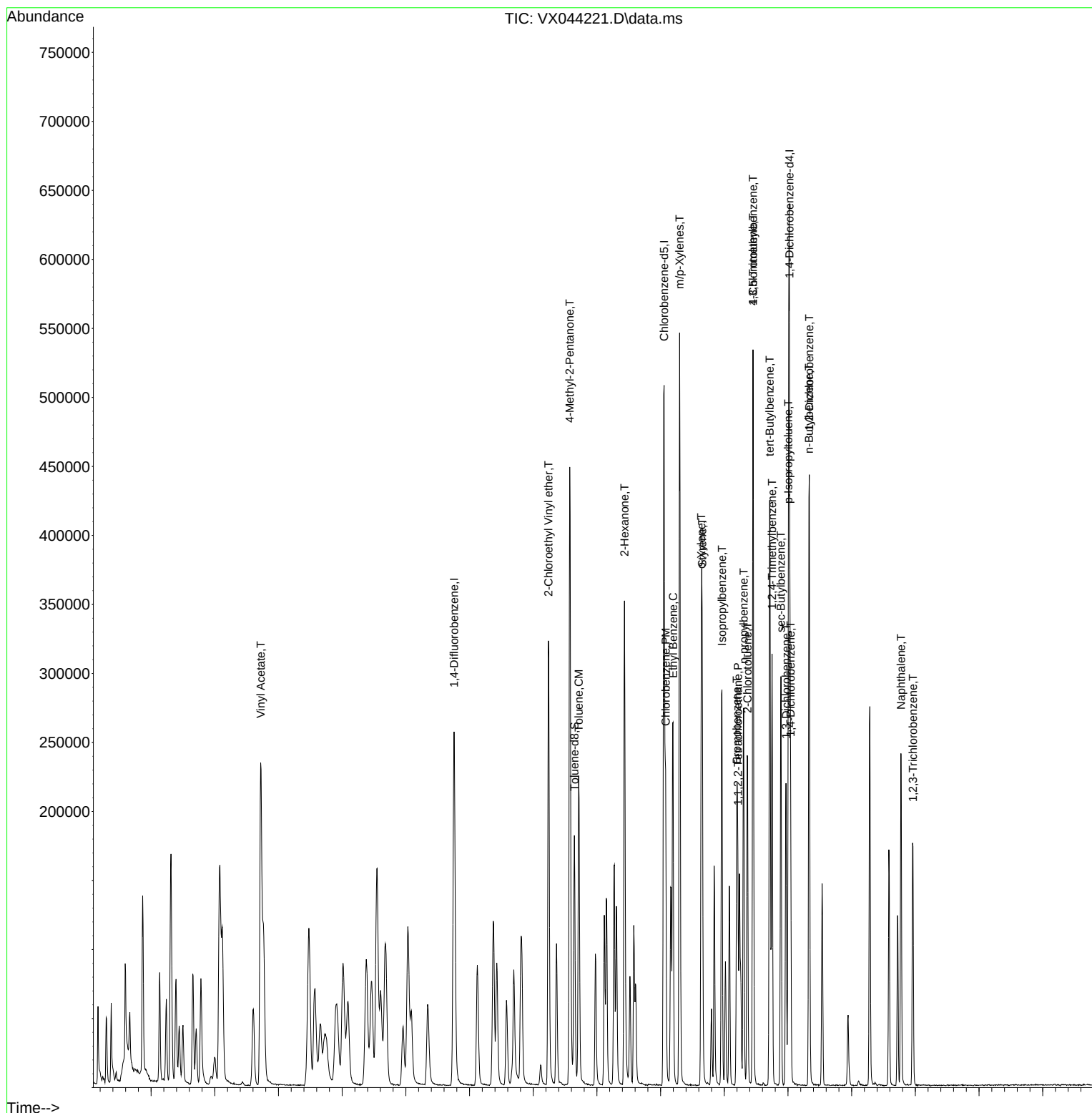
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Data File : VX044221.D
Acq On : 11 Dec 2024 11:50
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

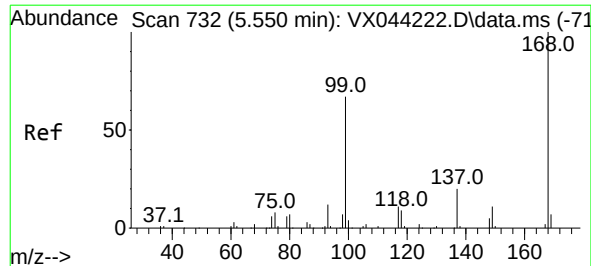
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Dec 12 04:14:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024





Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.550 min Scan# 73

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 168 Resp: 134436

Ion Ratio Lower Upper

168 100

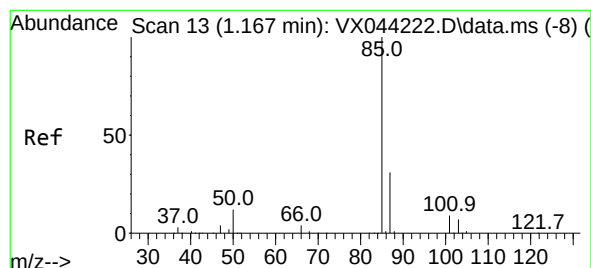
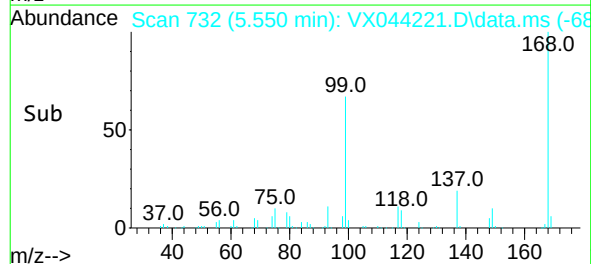
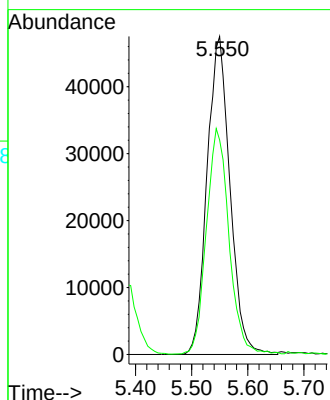
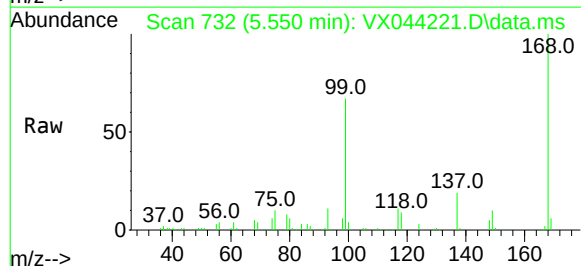
99 67.2 53.4 80.0

Manual Integrations

APPROVED

Reviewed By : John Carlone 12/12/2024

Supervised By : Mahesh Dadoda 12/12/2024



Dichlorodifluoromethane

Concen: 18.640 ug/l

RT: 1.166 min Scan# 13

Delta R.T. -0.000 min

Lab File: VX044221.D

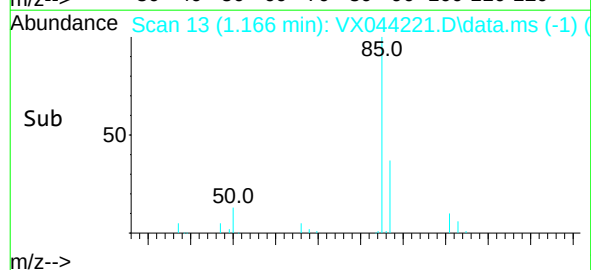
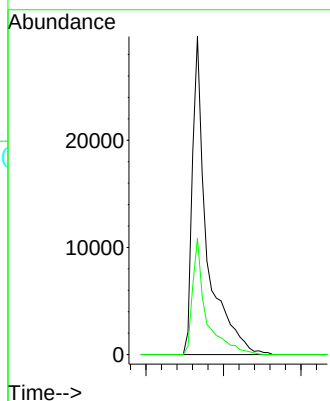
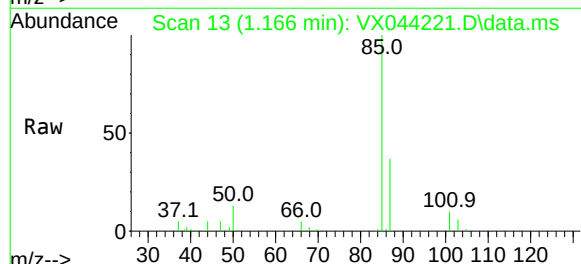
Acq: 11 Dec 2024 11:50

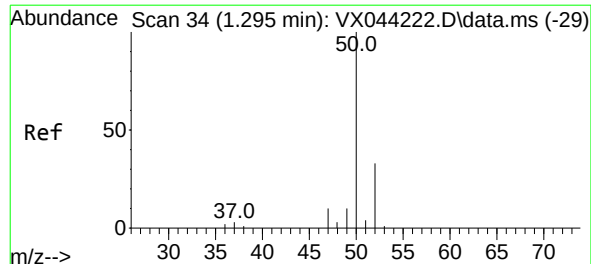
Tgt Ion: 85 Resp: 38748

Ion Ratio Lower Upper

85 100

87 36.6 15.4 46.4





#3

Chloromethane

Concen: 19.894 ug/l

RT: 1.294 min Scan# 34

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 50 Resp: 39546

Ion Ratio Lower Upper

50 100

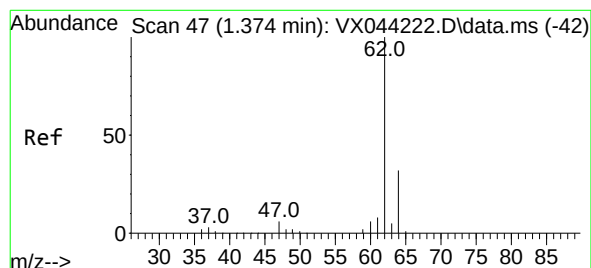
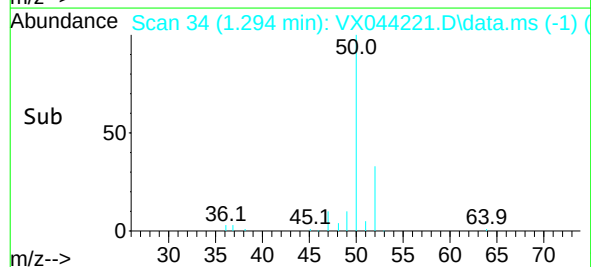
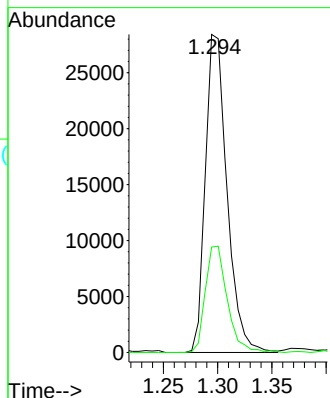
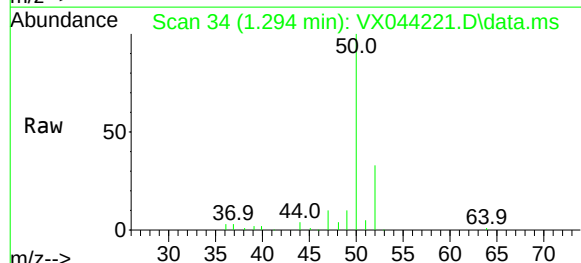
52 33.2 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#4

Vinyl Chloride

Concen: 20.304 ug/l

RT: 1.374 min Scan# 47

Delta R.T. -0.000 min

Lab File: VX044221.D

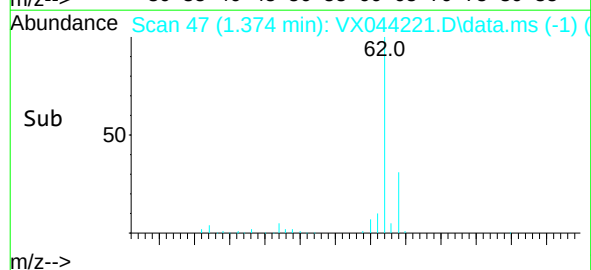
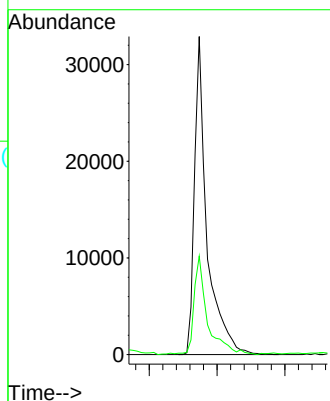
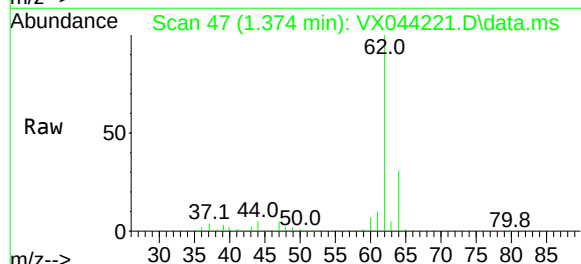
Acq: 11 Dec 2024 11:50

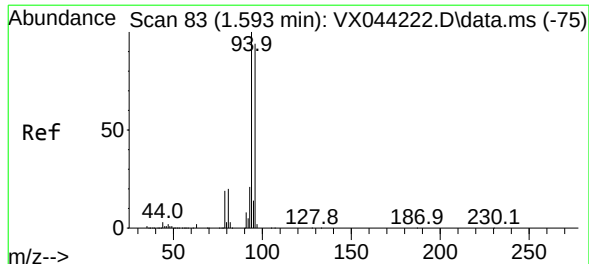
Tgt Ion: 62 Resp: 42048

Ion Ratio Lower Upper

62 100

64 30.6 25.7 38.5





#5

Bromomethane

Concen: 18.789 ug/l

RT: 1.593 min Scan# 83

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 94 Resp: 27604

Ion Ratio Lower Upper

94 100

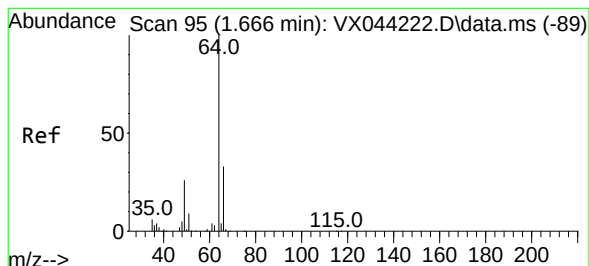
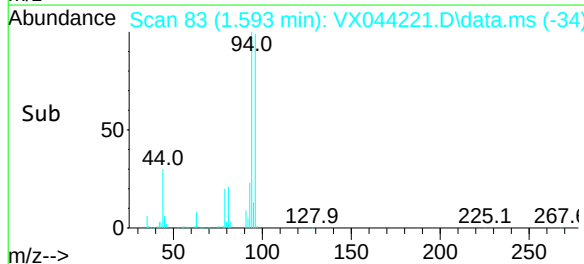
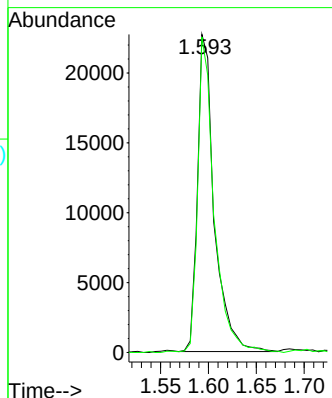
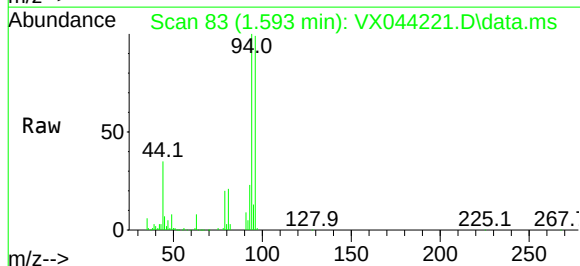
96 99.2 74.9 112.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#6

Chloroethane

Concen: 21.460 ug/l

RT: 1.666 min Scan# 95

Delta R.T. -0.000 min

Lab File: VX044221.D

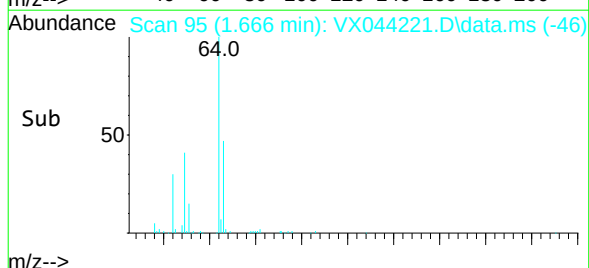
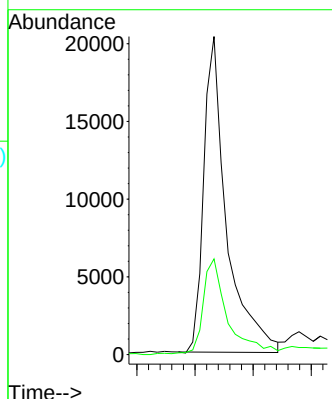
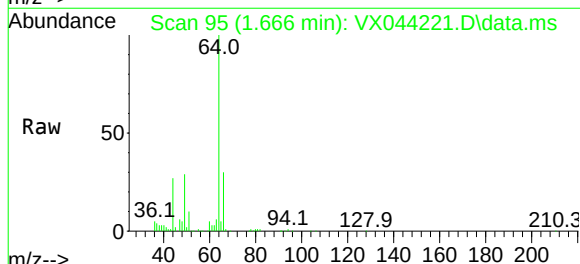
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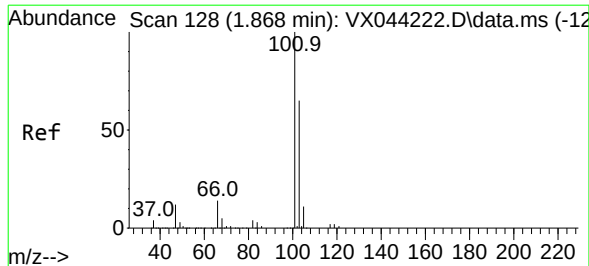
Tgt Ion: 64 Resp: 27673

Ion Ratio Lower Upper

64 100

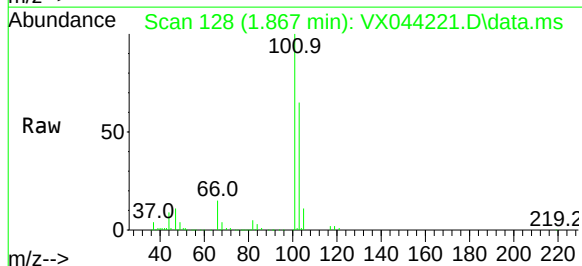
66 29.8 26.6 39.8





#7
Trichlorofluoromethane
Concen: 20.077 ug/l
RT: 1.867 min Scan# 128
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

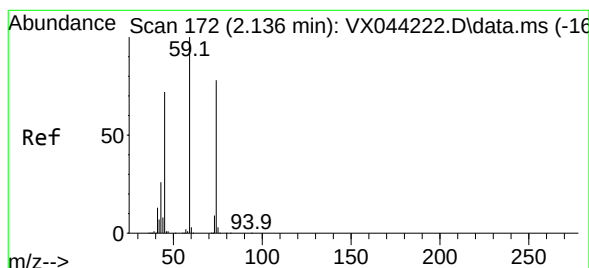
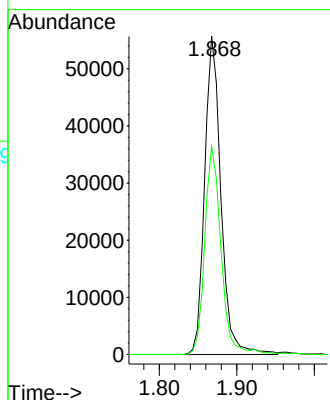
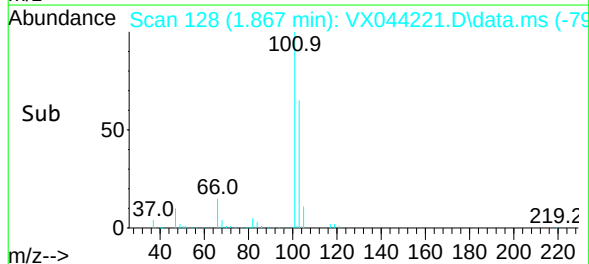
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 101 Resp: 81398
Ion Ratio Lower Upper
101 100
103 65.3 51.8 77.8

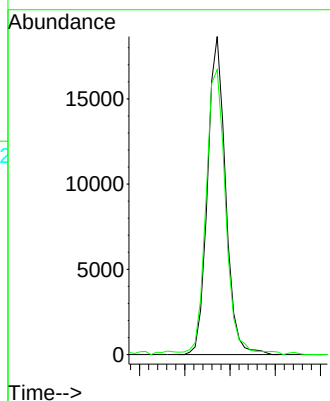
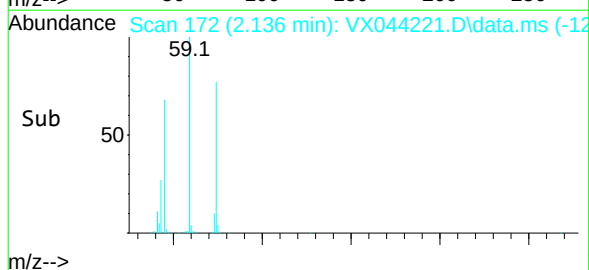
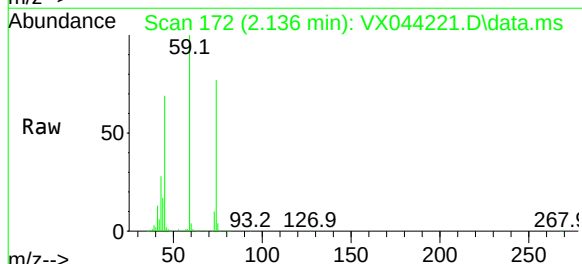
Manual Integrations
APPROVED

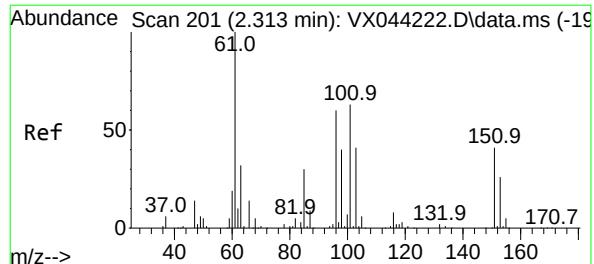
Reviewed By : John Carlone 12/12/2024
Supervised By : Mahesh Dadoda 12/12/2024



#8
Diethyl Ether
Concen: 18.704 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 74 Resp: 25884
Ion Ratio Lower Upper
74 100
45 97.8 48.4 145.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.412 ug/l

RT: 2.319 min Scan# 201

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

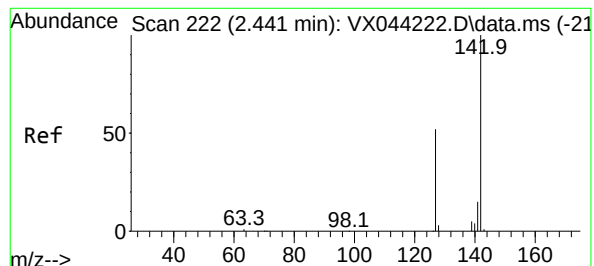
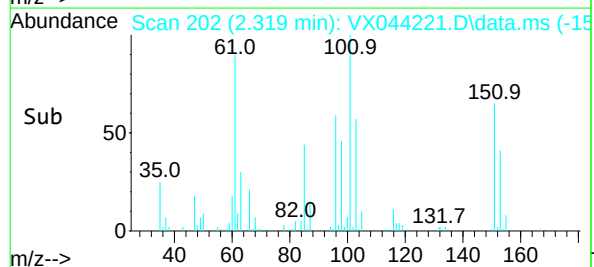
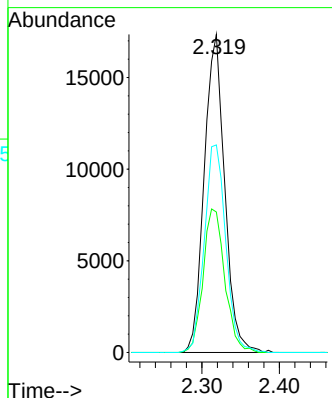
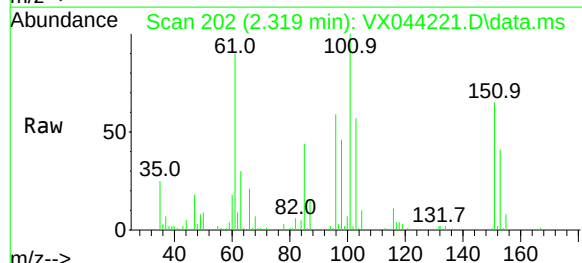
ClientSampleId :

VSTDICC020

Tgt Ion:	101	Resp:	31846
Ion Ratio	Lower	Upper	
101	100		
85	48.0	38.5	57.7
151	68.6	55.8	83.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#10

Methyl Iodide

Concen: 19.788 ug/l

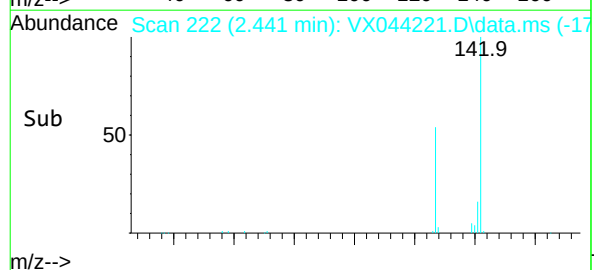
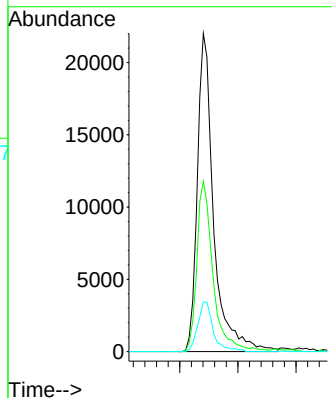
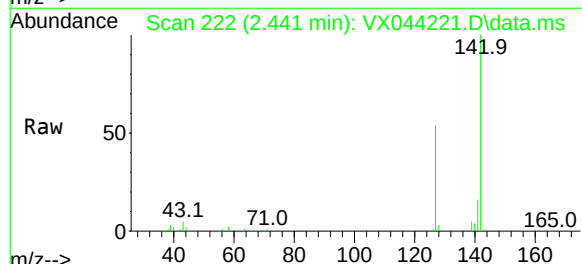
RT: 2.441 min Scan# 222

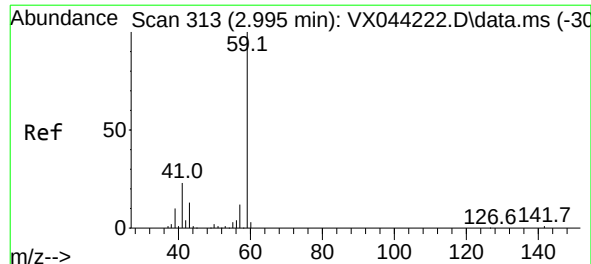
Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Tgt Ion:	142	Resp:	42786
Ion Ratio	Lower	Upper	
142	100		
127	52.9	41.8	62.8
141	14.8	11.5	17.3





#11

Tert butyl alcohol

Concen: 89.904 ug/l m

RT: 3.001 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 59 Resp: 29819

Ion Ratio Lower Upper

59 100

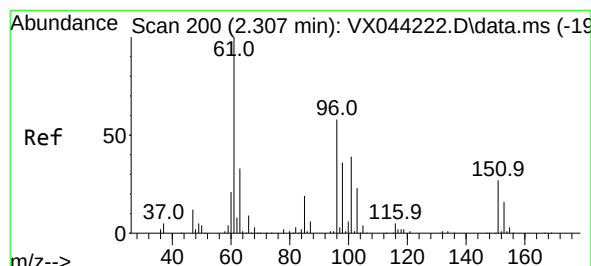
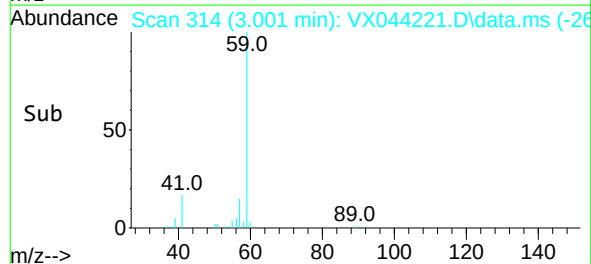
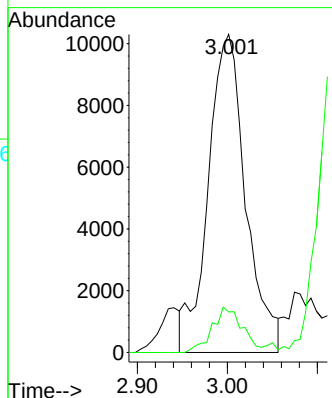
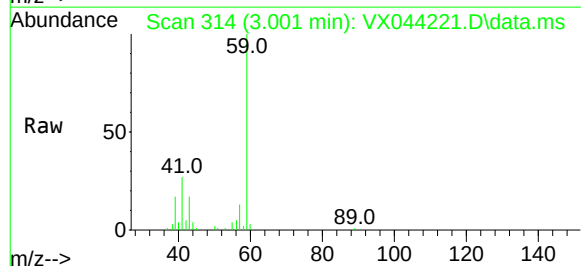
57 11.5 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#12

1,1-Dichloroethene

Concen: 19.405 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

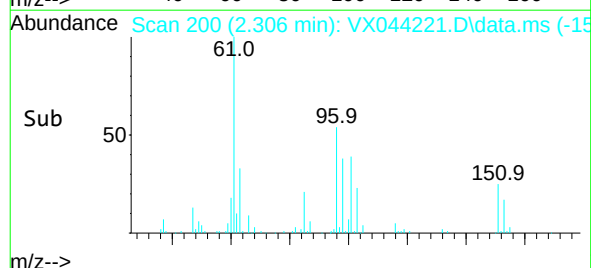
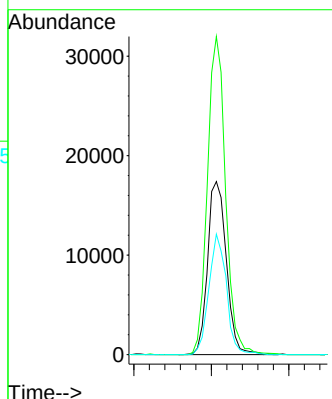
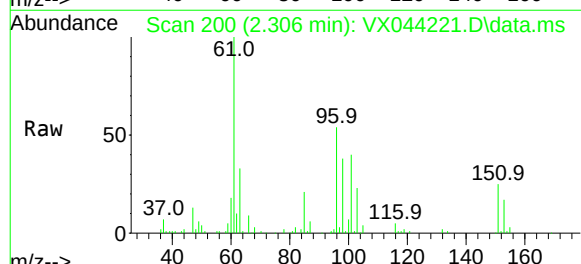
Tgt Ion: 96 Resp: 29241

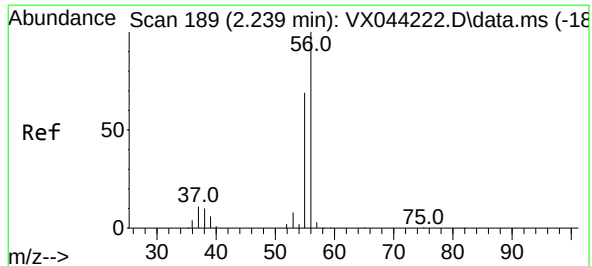
Ion Ratio Lower Upper

96 100

61 183.9 138.0 207.0

98 69.6 50.0 75.0





#13

Acrolein

Concen: 91.311 ug/l

RT: 2.239 min Scan# 189

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 43909

Ion Ratio Lower Upper

56 100

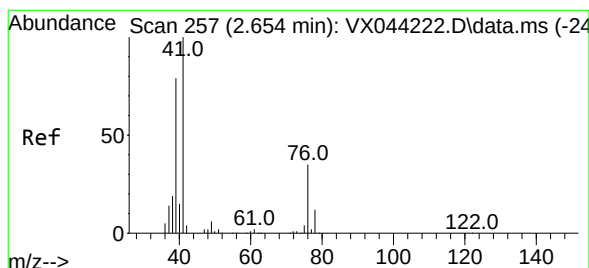
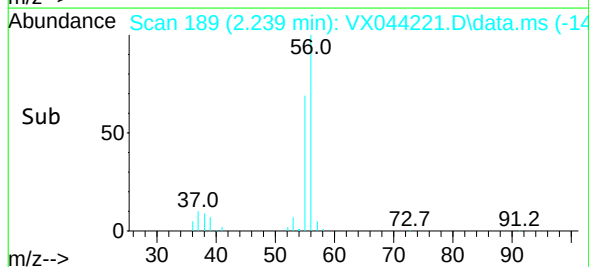
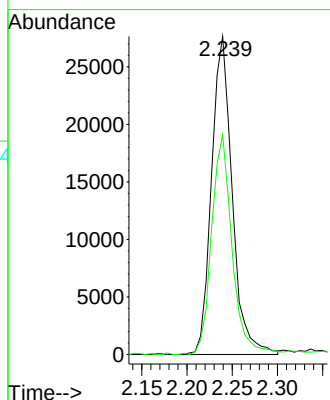
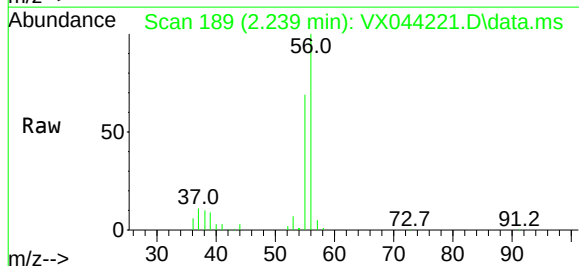
55 68.6 56.6 84.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#14

Allyl chloride

Concen: 18.813 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

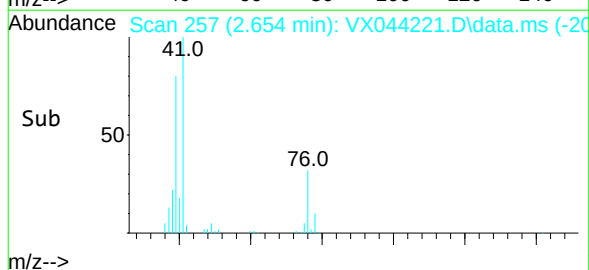
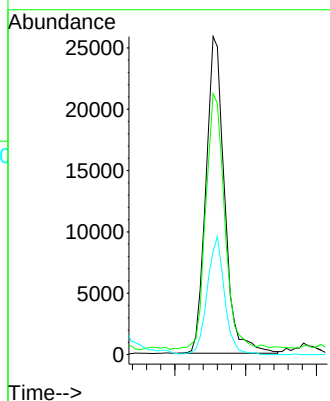
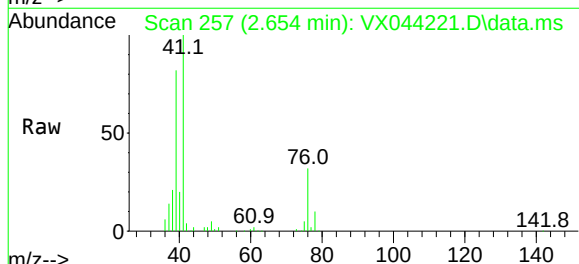
Tgt Ion: 41 Resp: 47218

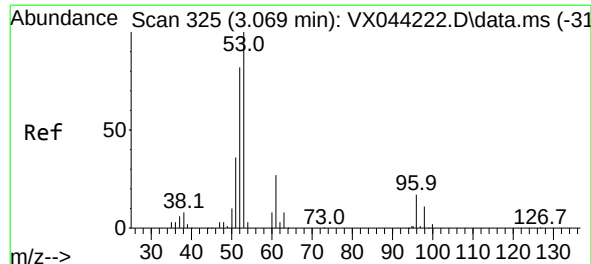
Ion Ratio Lower Upper

41 100

39 80.4 61.9 92.9

76 34.5 27.4 41.2





#15

Acrylonitrile

Concen: 96.988 ug/l

RT: 3.068 min Scan# 32

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

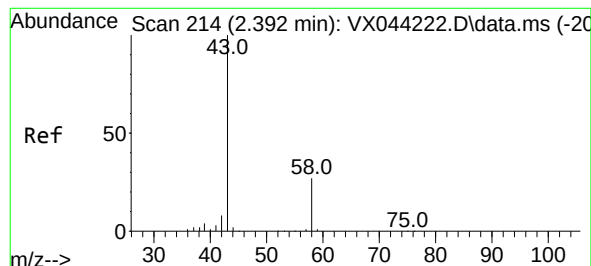
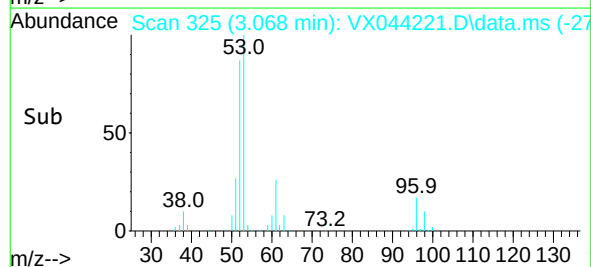
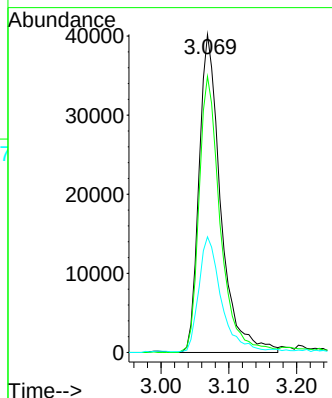
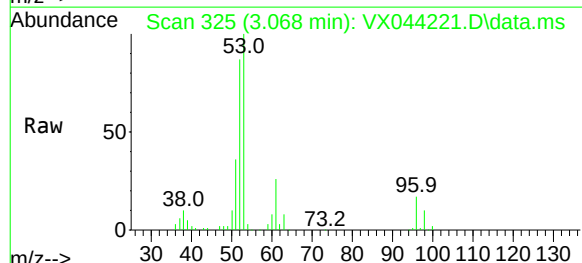
ClientSampleId :

VSTDIC020

Tgt Ion:	53	Resp:	89249
Ion	Ratio	Lower	Upper
53	100		
52	85.1	67.4	101.0
51	37.1	30.3	45.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#16

Acetone

Concen: 92.601 ug/l

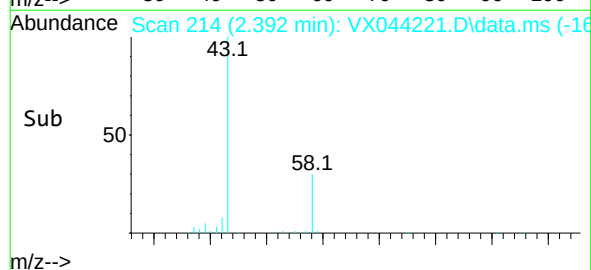
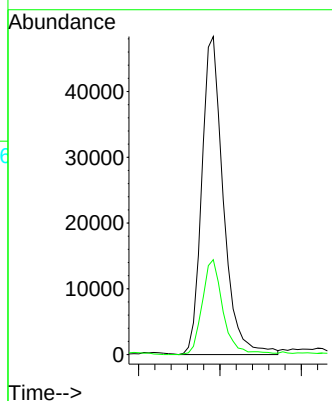
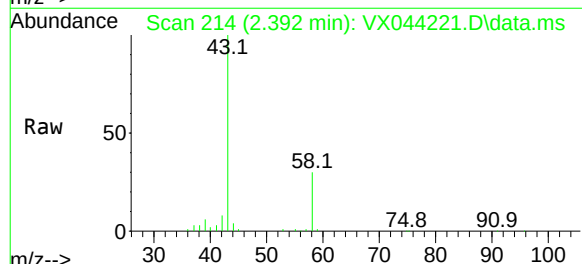
RT: 2.392 min Scan# 214

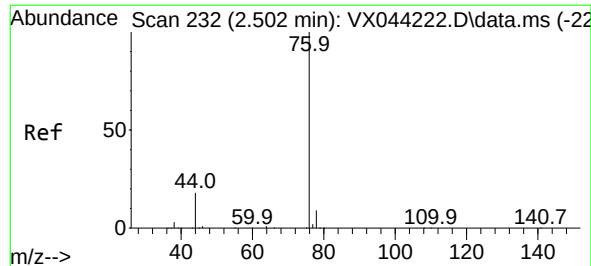
Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Tgt Ion:	43	Resp:	88985
Ion	Ratio	Lower	Upper
43	100		
58	29.8	21.6	32.4





#17

Carbon Disulfide

Concen: 17.595 ug/l

RT: 2.502 min Scan# 232

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 76 Resp: 50399

Ion Ratio Lower Upper

76 100

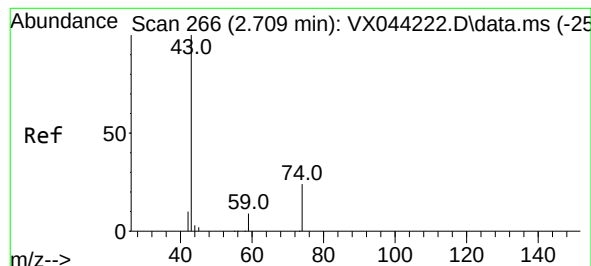
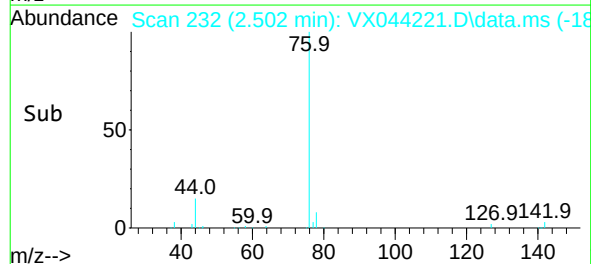
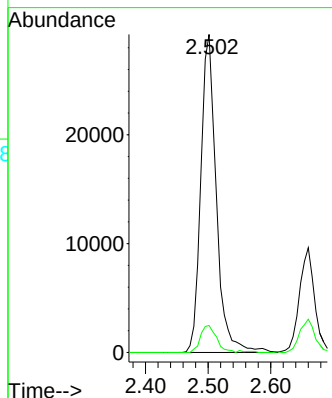
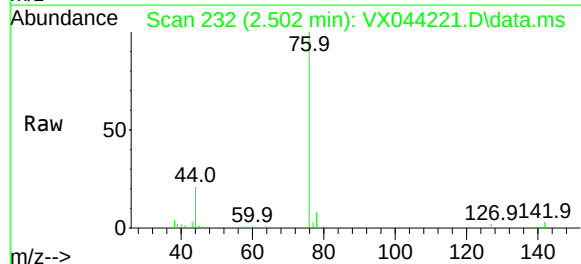
78 8.5 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#18

Methyl Acetate

Concen: 19.175 ug/l

RT: 2.709 min Scan# 266

Delta R.T. -0.000 min

Lab File: VX044221.D

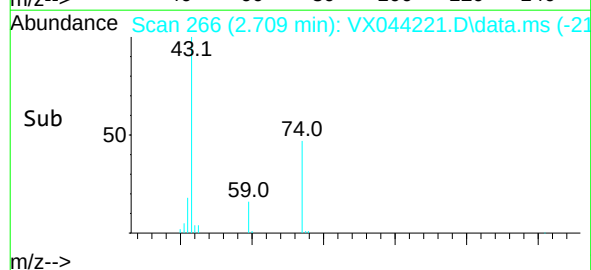
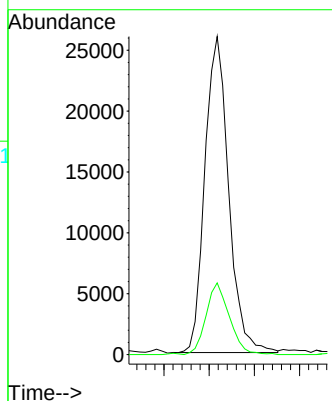
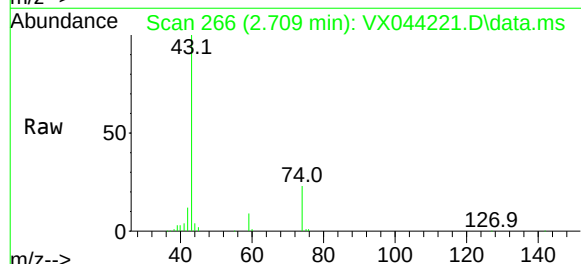
Acq: 11 Dec 2024 11:50

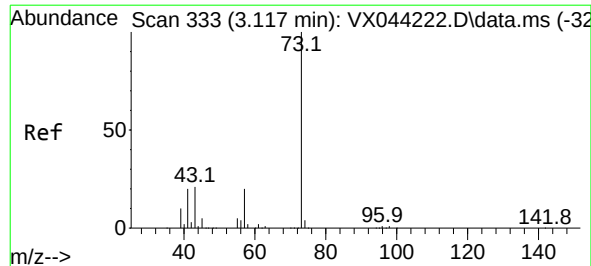
Tgt Ion: 43 Resp: 47509

Ion Ratio Lower Upper

43 100

74 22.2 17.7 26.5





#19

Methyl tert-butyl Ether

Concen: 19.450 ug/l

RT: 3.117 min Scan# 333

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 73 Resp: 114371

Ion Ratio Lower Upper

73 100

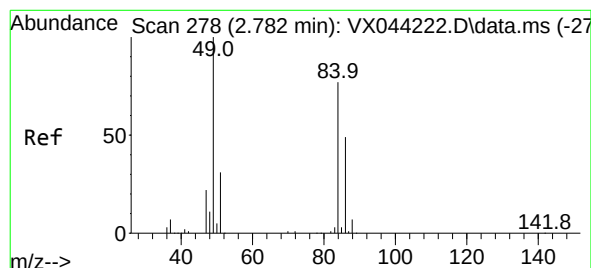
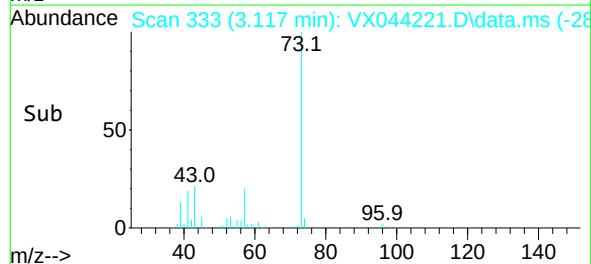
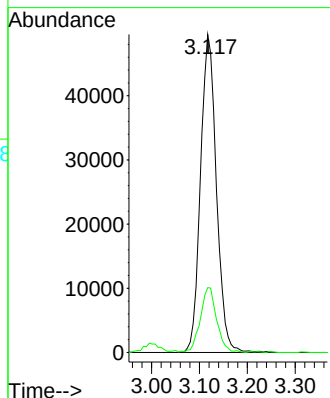
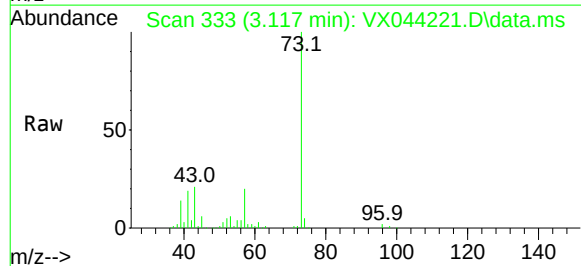
57 20.4 16.2 24.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#20

Methylene Chloride

Concen: 19.846 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Tgt Ion: 84 Resp: 35820

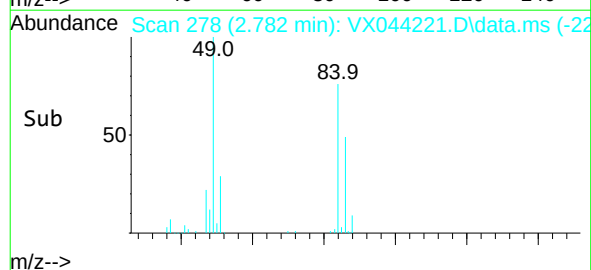
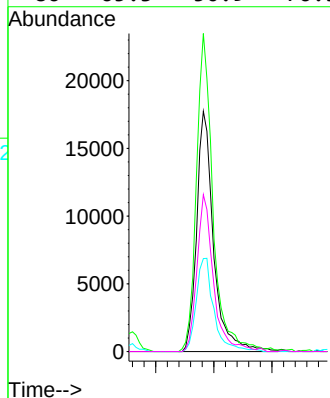
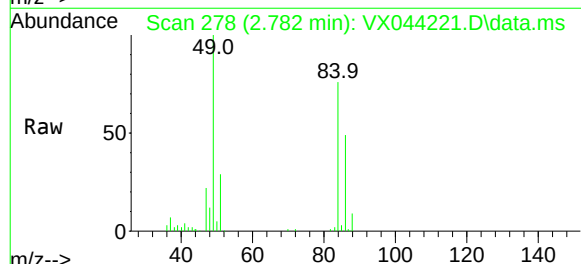
Ion Ratio Lower Upper

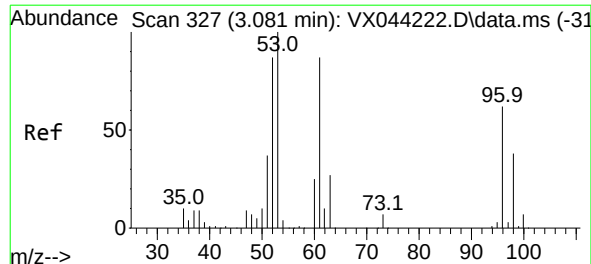
84 100

49 132.3 104.2 156.4

51 38.7 32.2 48.4

86 65.3 50.9 76.3





#21

trans-1,2-Dichloroethene

Concen: 19.380 ug/l

RT: 3.087 min Scan# 327

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 96 Resp: 31036

Ion Ratio Lower Upper

96 100

61 136.8 112.0 168.0

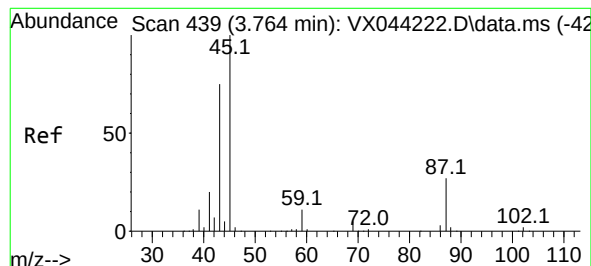
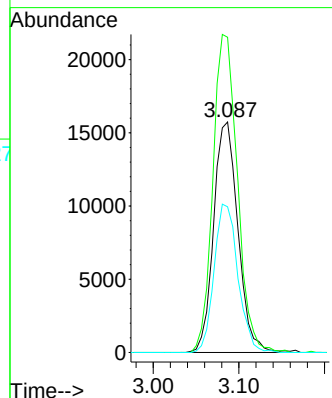
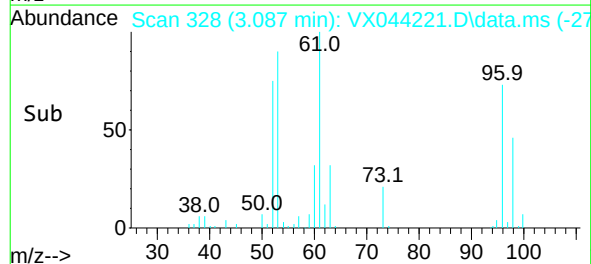
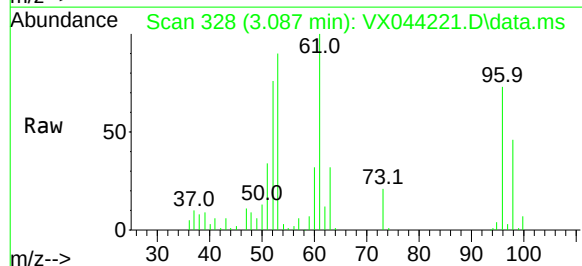
98 63.2 48.8 73.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#22

Diisopropyl ether

Concen: 19.907 ug/l

RT: 3.764 min Scan# 439

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Tgt Ion: 45 Resp: 112511

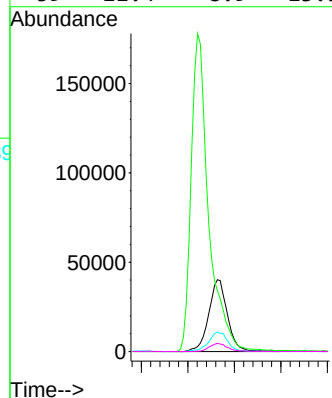
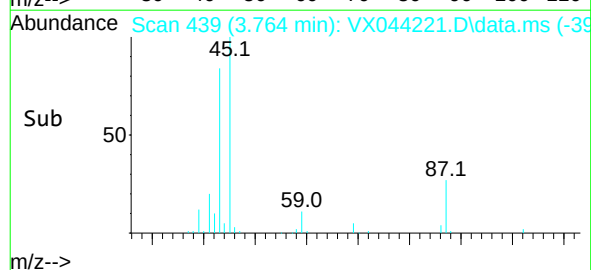
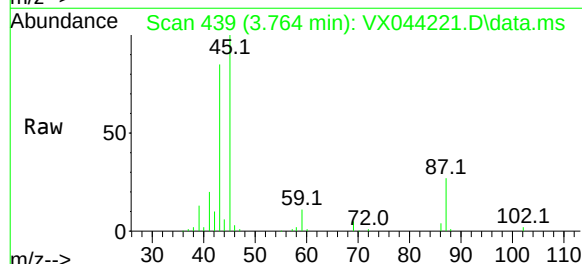
Ion Ratio Lower Upper

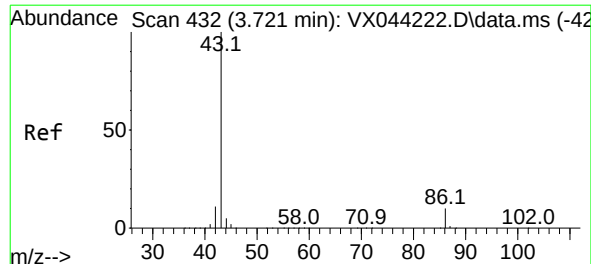
45 100

43 82.8 60.2 90.2

87 27.1 21.2 31.8

59 11.4 8.9 13.3





#23

Vinyl Acetate

Concen: 101.354 ug/l

RT: 3.721 min Scan# 43

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 465716

Ion Ratio Lower Upper

43 100

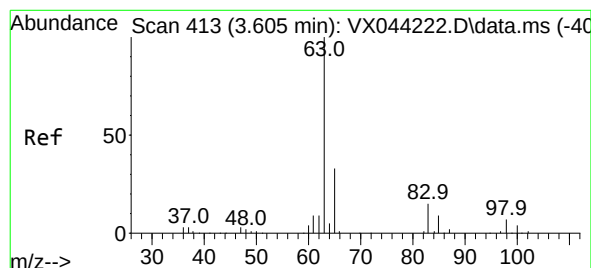
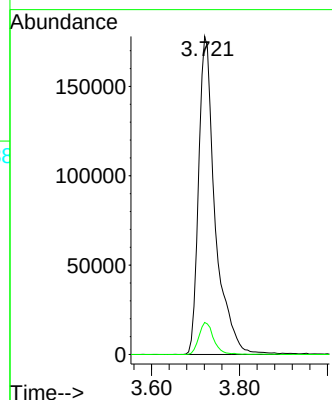
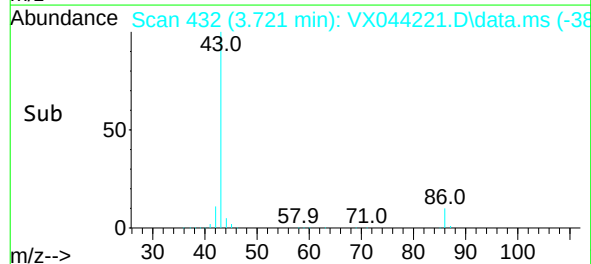
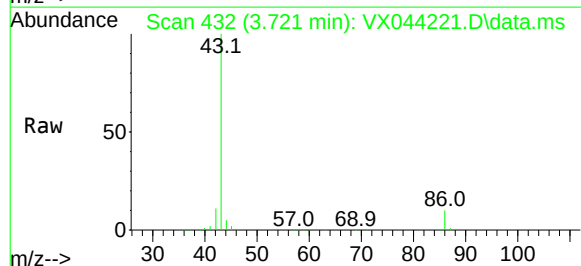
86 10.1 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#24

1,1-Dichloroethane

Concen: 19.699 ug/l

RT: 3.605 min Scan# 413

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

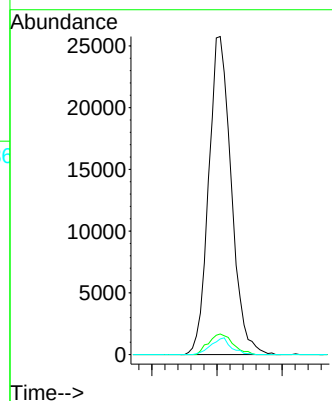
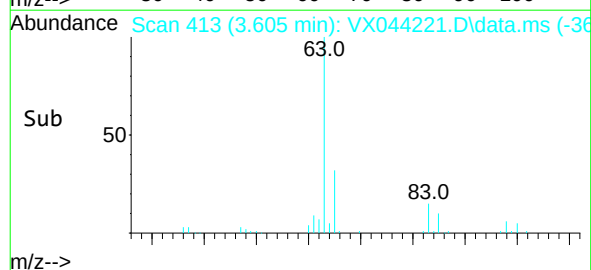
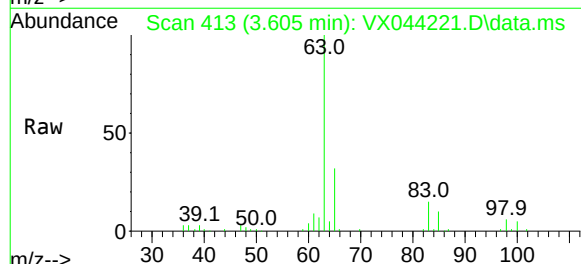
Tgt Ion: 63 Resp: 62059

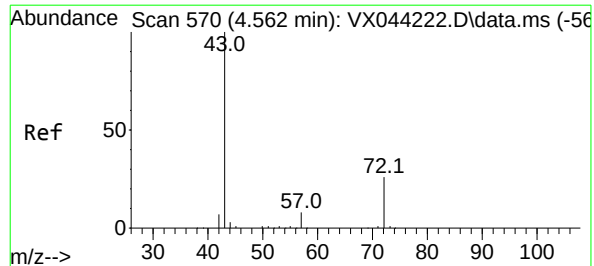
Ion Ratio Lower Upper

63 100

98 6.5 3.6 10.8

100 4.9 2.1 6.3





#25

2-Butanone

Concen: 100.277 ug/l

RT: 4.568 min Scan# 570

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 136992

Ion Ratio Lower Upper

43 100

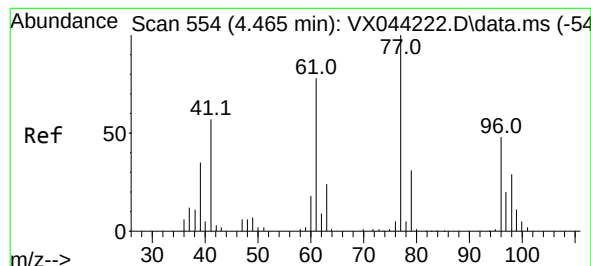
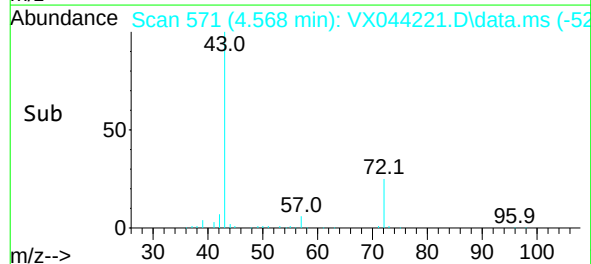
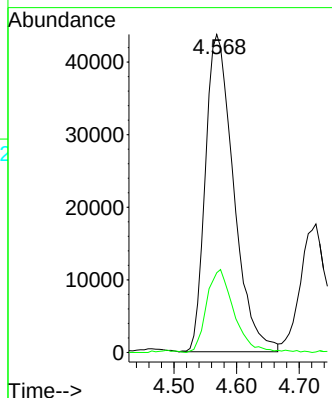
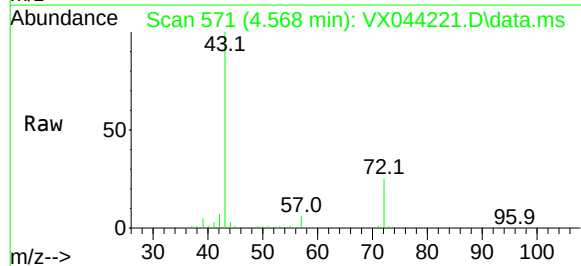
72 24.8 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#26

2,2-Dichloropropane

Concen: 20.095 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.006 min

Lab File: VX044221.D

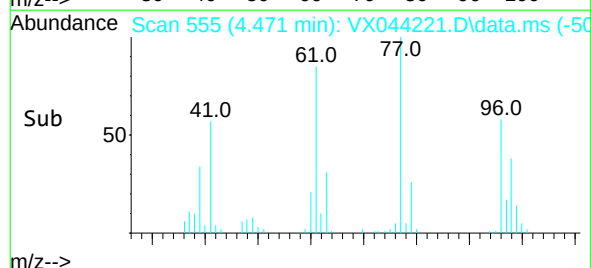
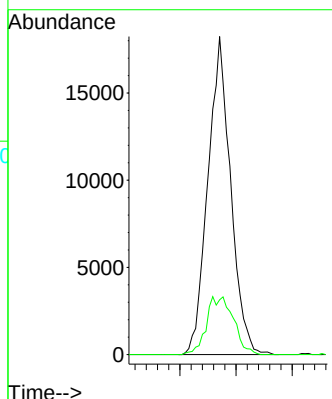
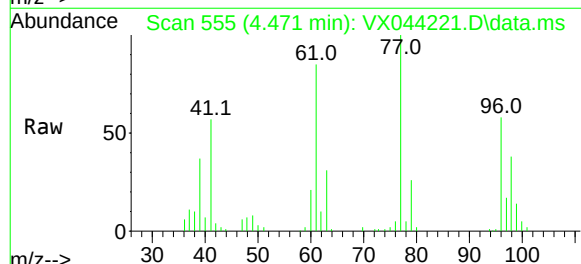
Acq: 11 Dec 2024 11:50

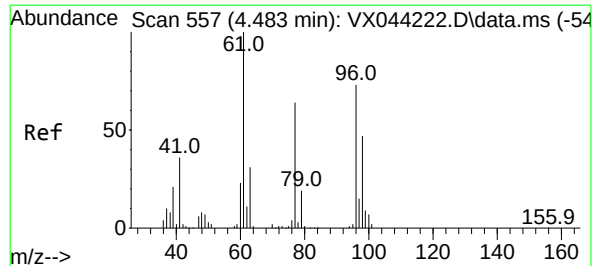
Tgt Ion: 77 Resp: 51431

Ion Ratio Lower Upper

77 100

97 9.1 10.7 32.1#





#27

cis-1,2-Dichloroethene

Concen: 19.254 ug/l

RT: 4.477 min Scan# 55

Delta R.T. -0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 96 Resp: 39161

Ion Ratio Lower Upper

96 100

61 147.6 0.0 299.0

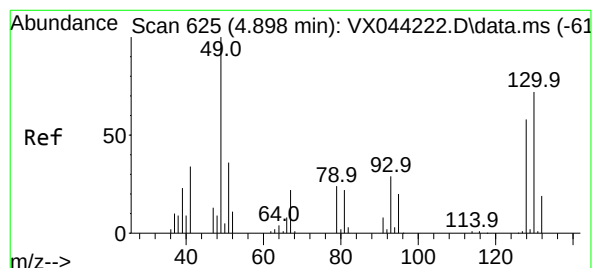
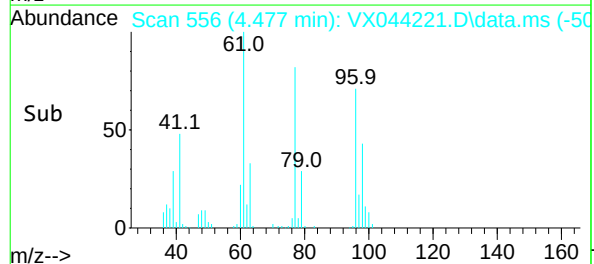
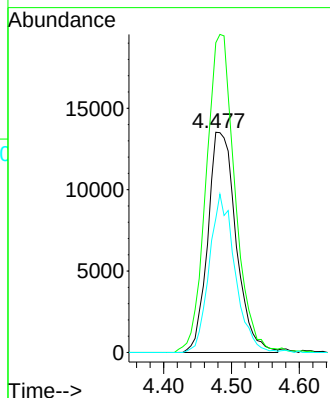
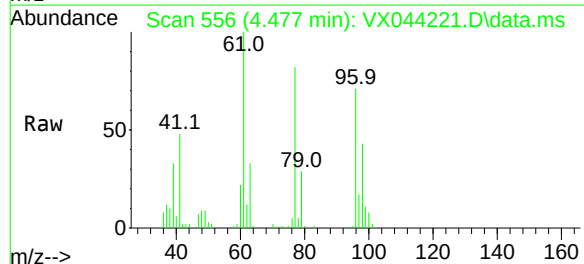
98 65.5 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#28

Bromochloromethane

Concen: 20.052 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

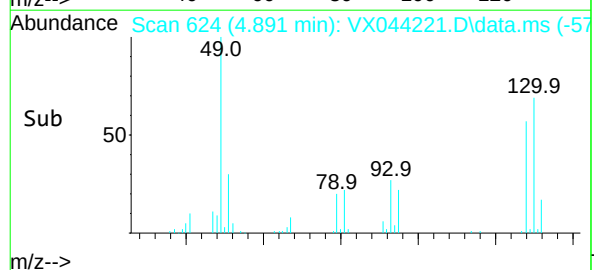
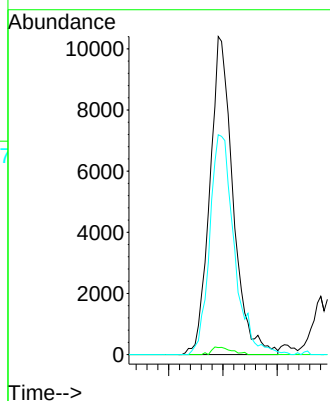
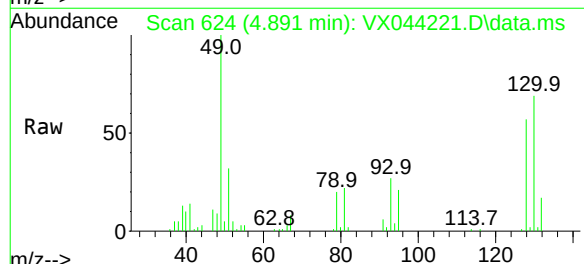
Tgt Ion: 49 Resp: 30977

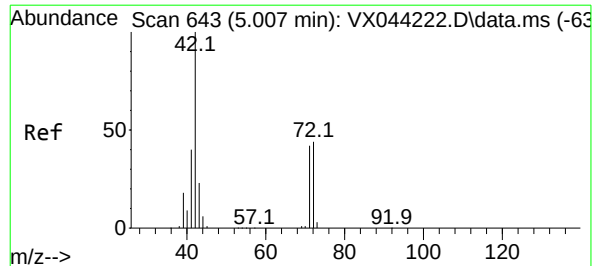
Ion Ratio Lower Upper

49 100

129 2.0 0.0 4.2

130 73.1 62.1 93.1





#29

Tetrahydrofuran

Concen: 98.343 ug/l

RT: 5.013 min Scan# 64

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 42 Resp: 86235

Ion Ratio Lower Upper

42 100

72 45.2 37.0 55.6

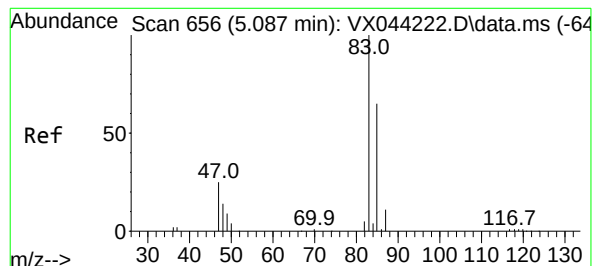
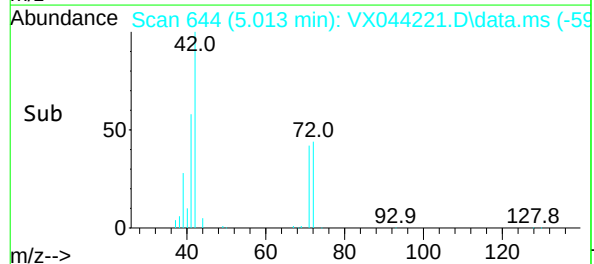
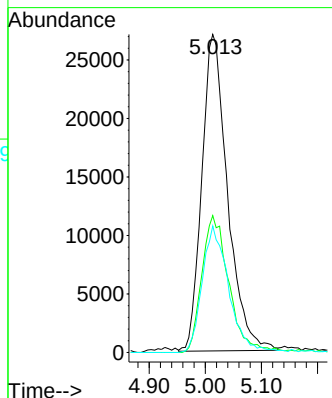
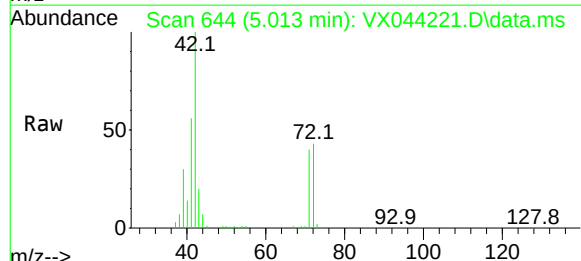
71 41.1 33.6 50.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#30

Chloroform

Concen: 19.327 ug/l

RT: 5.093 min Scan# 657

Delta R.T. 0.006 min

Lab File: VX044221.D

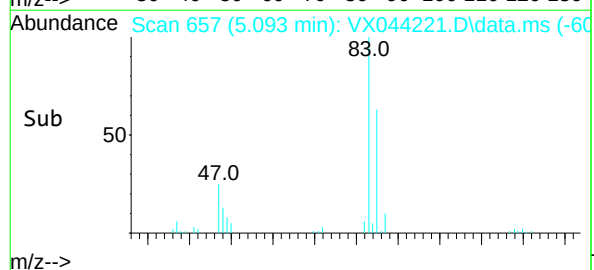
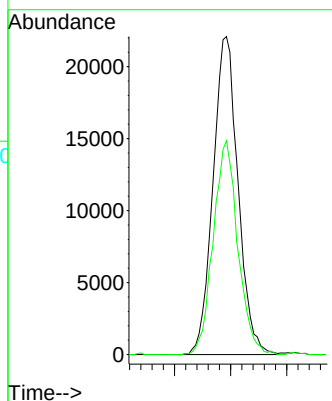
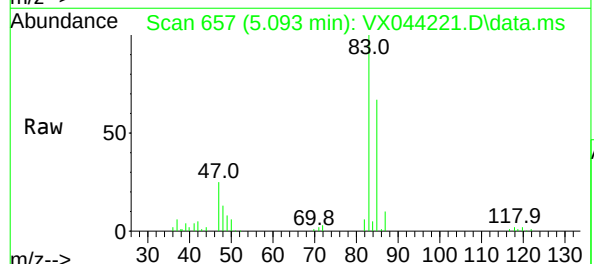
Acq: 11 Dec 2024 11:50

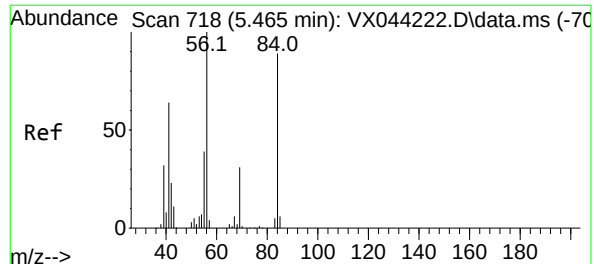
Tgt Ion: 83 Resp: 68410

Ion Ratio Lower Upper

83 100

85 67.2 51.6 77.4





#31

Cyclohexane

Concen: 20.351 ug/l

RT: 5.458 min Scan# 718

Delta R.T. -0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

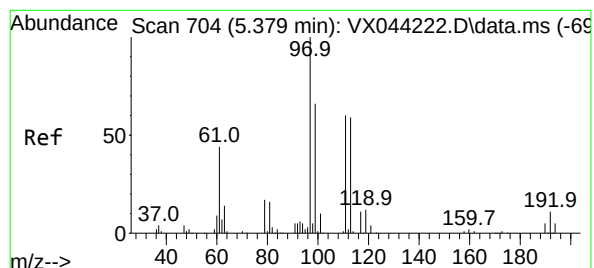
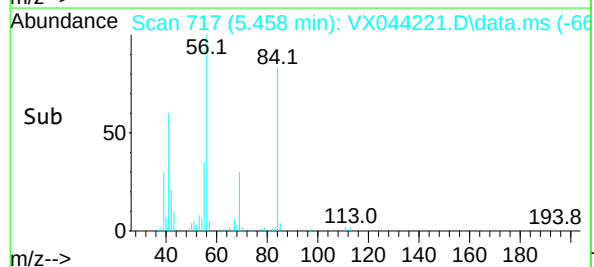
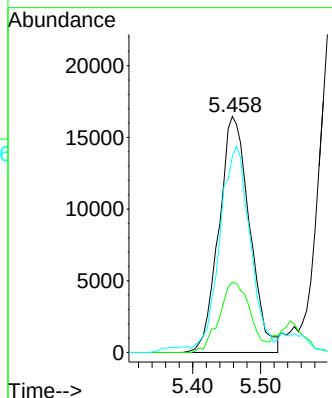
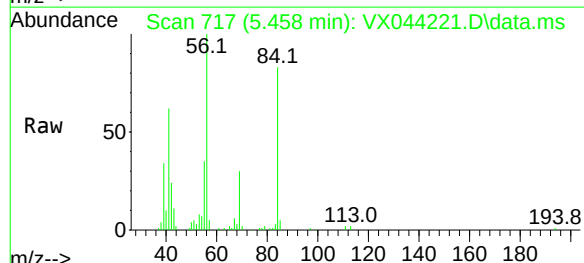
ClientSampleId :

VSTDICC020

Tgt Ion:	56	Resp:	51773
Ion	Ratio	Lower	Upper
56	100		
69	29.8	24.7	37.1
84	80.7	71.0	106.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#32

1,1,1-Trichloroethane

Concen: 19.706 ug/l

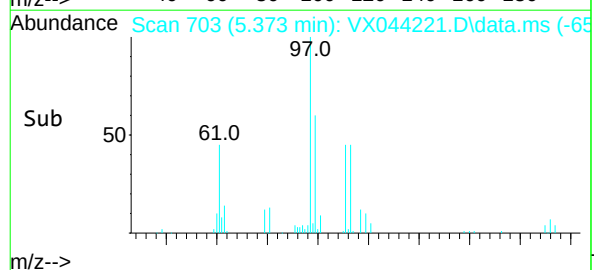
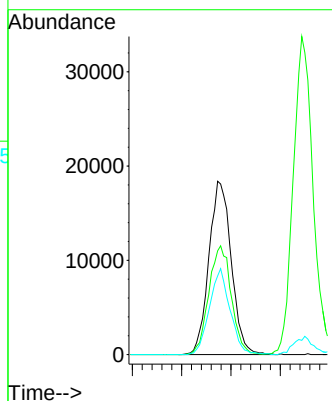
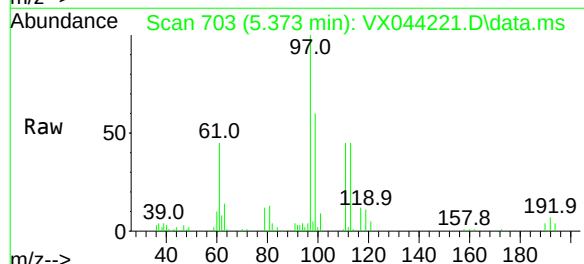
RT: 5.373 min Scan# 703

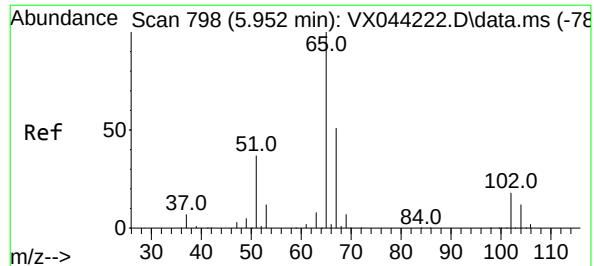
Delta R.T. -0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Tgt Ion:	97	Resp:	57900
Ion	Ratio	Lower	Upper
97	100		
99	63.0	50.8	76.2
61	45.7	35.2	52.8





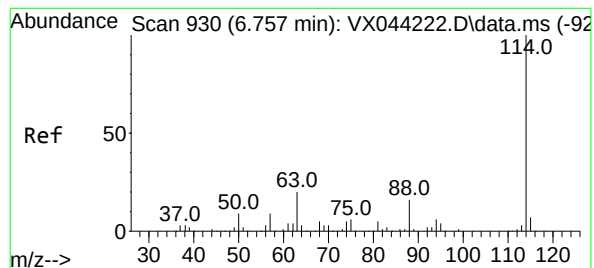
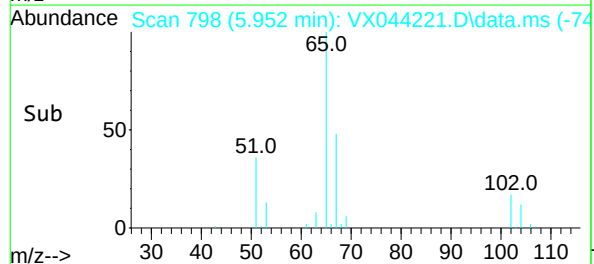
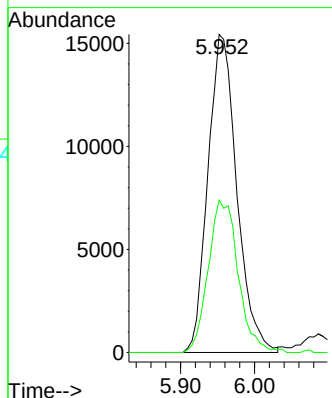
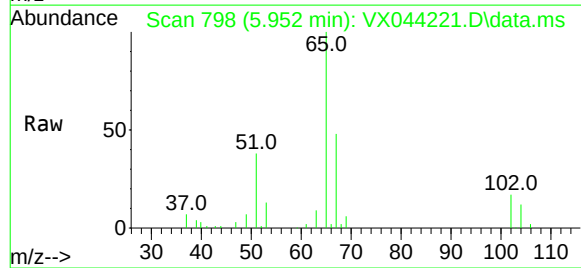
#33
1,2-Dichloroethane-d4
Concen: 17.743 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 41821
Ion Ratio Lower Upper
65 100
67 49.6 0.0 101.6

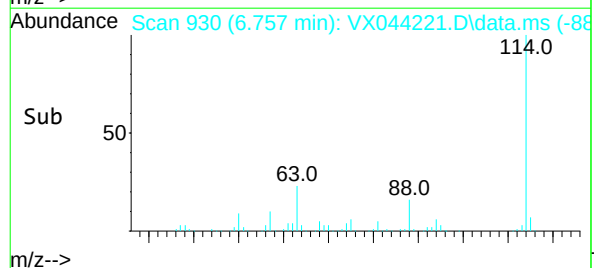
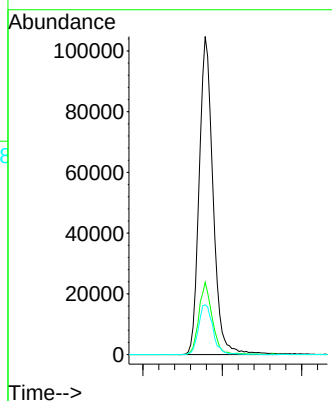
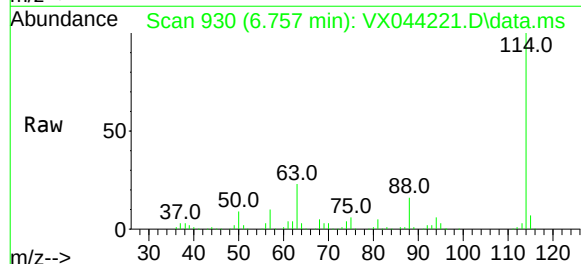
Manual Integrations
APPROVED

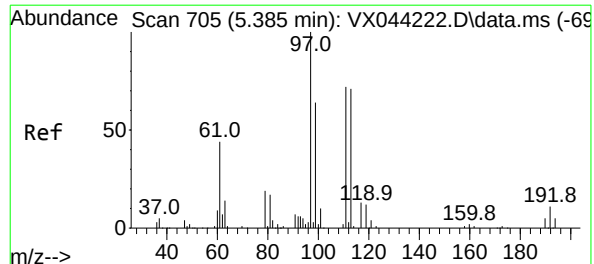
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:114 Resp: 254199
Ion Ratio Lower Upper
114 100
63 22.7 0.0 40.6
88 15.7 0.0 31.8





#35

Dibromofluoromethane

Concen: 17.213 ug/l

RT: 5.391 min Scan# 706

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

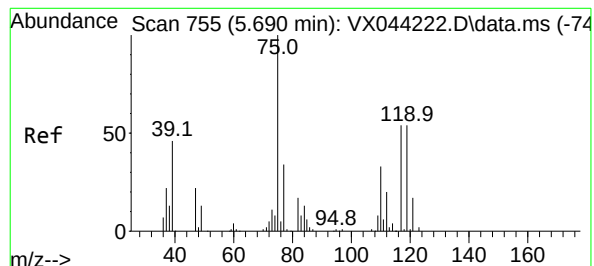
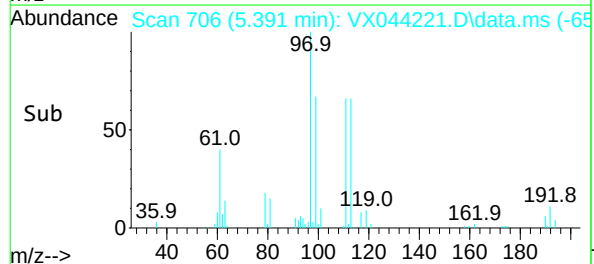
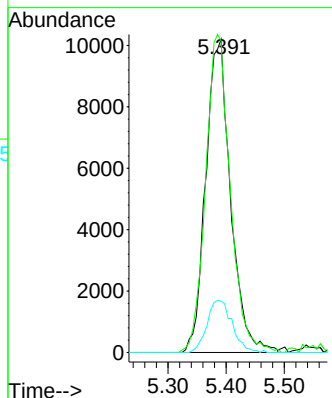
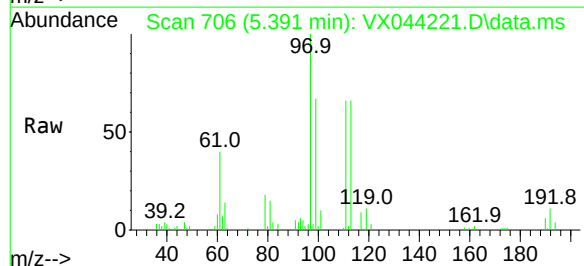
ClientSampleId :

VSTDICC020

Tgt	Ion:	113	Resp:	30304
Ion	Ratio	Lower	Upper	
113	100			
111	100.9	80.4	120.6	
192	16.7	13.3	19.9	

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#36

1,1-Dichloropropene

Concen: 18.841 ug/l

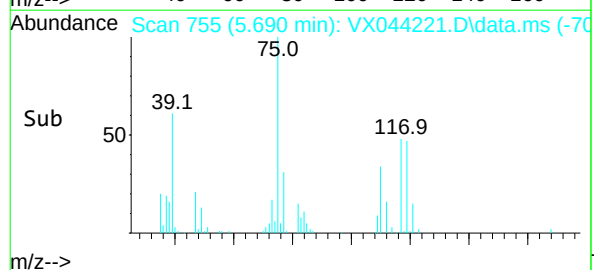
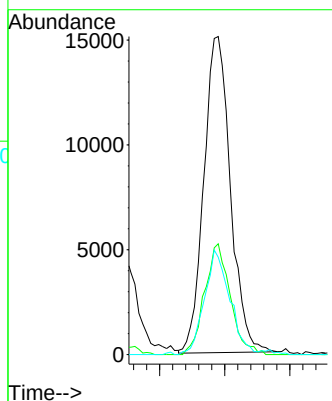
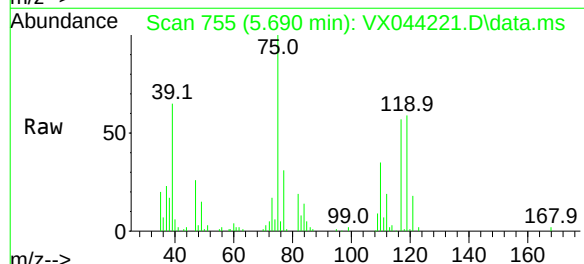
RT: 5.690 min Scan# 755

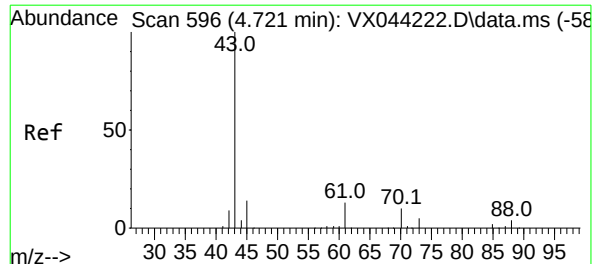
Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Tgt	Ion:	75	Resp:	42878
Ion	Ratio	Lower	Upper	
75	100			
110	33.7	17.3	51.7	
77	31.3	25.4	38.0	





#37

Ethyl Acetate

Concen: 19.913 ug/l

RT: 4.727 min Scan# 59

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

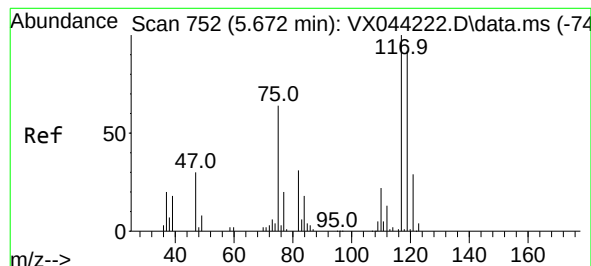
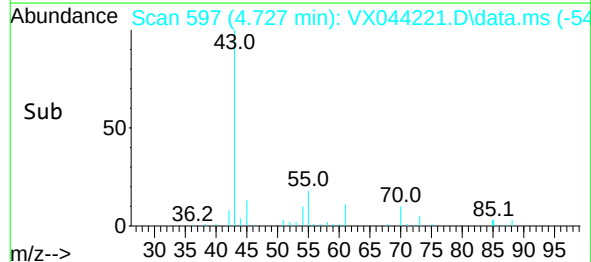
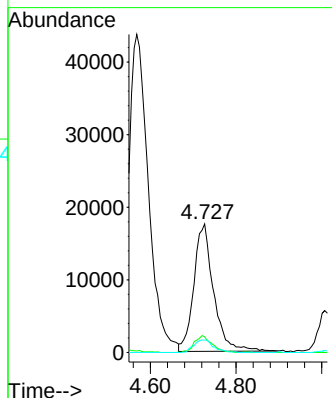
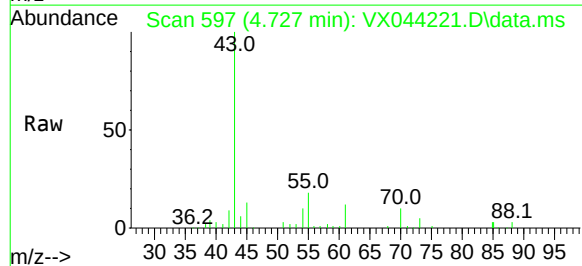
ClientSampleId :

VSTDIC020

Tgt Ion:	43	Resp:	56019
Ion	Ratio	Lower	Upper
43	100		
61	11.8	9.8	14.8
70	9.9	7.7	11.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#38

Carbon Tetrachloride

Concen: 17.918 ug/l

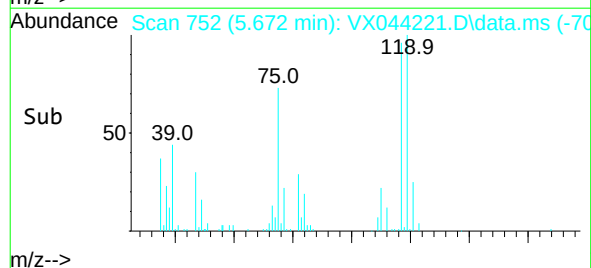
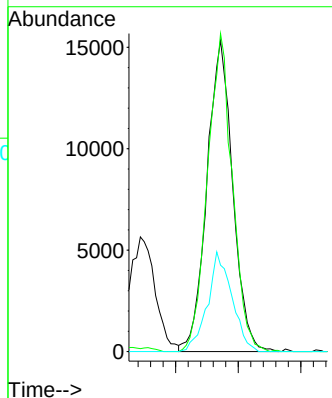
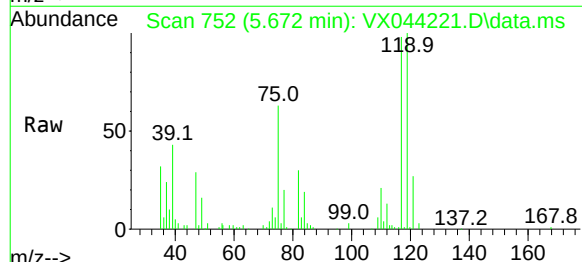
RT: 5.672 min Scan# 752

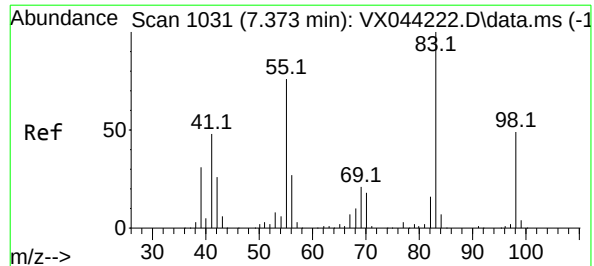
Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Tgt Ion:	117	Resp:	43901
Ion	Ratio	Lower	Upper
117	100		
119	102.3	74.2	111.4
121	27.8	23.0	34.6





#39

Methylcyclohexane

Concen: 19.678 ug/l

RT: 7.379 min Scan# 1031

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 83 Resp: 53536

Ion Ratio Lower Upper

83 100

55 71.4 60.7 91.1

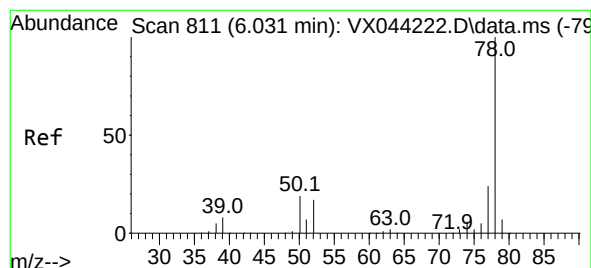
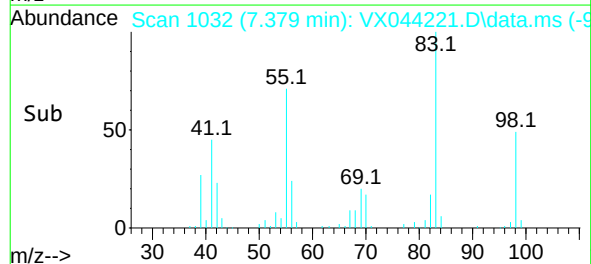
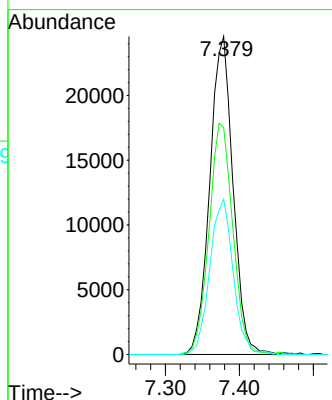
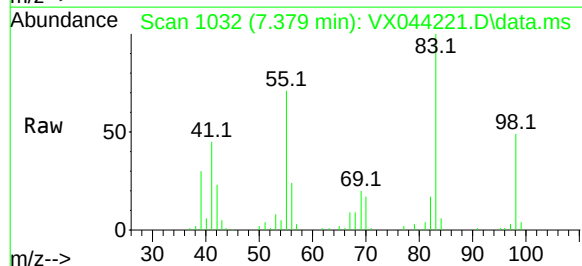
98 48.7 38.9 58.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#40

Benzene

Concen: 19.606 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX044221.D

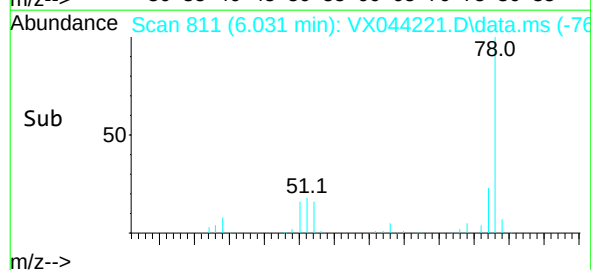
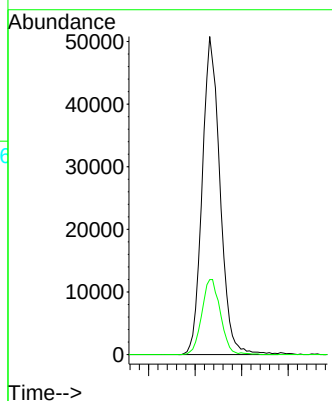
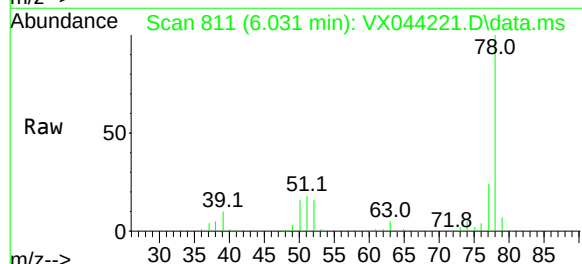
Acq: 11 Dec 2024 11:50

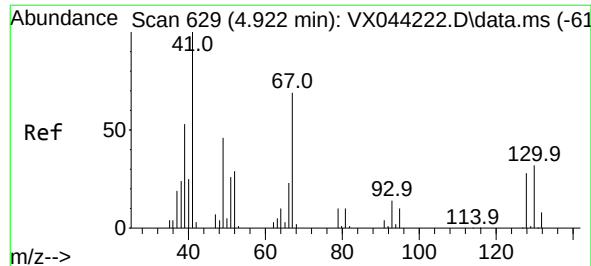
Tgt Ion: 78 Resp: 135467

Ion Ratio Lower Upper

78 100

77 23.6 19.3 28.9





#41

Methacrylonitrile

Concen: 19.095 ug/l

RT: 4.928 min Scan# 63

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 41 Resp: 28523

Ion Ratio Lower Upper

41 100

39 59.0 44.2 66.4

67 67.6 57.2 85.8

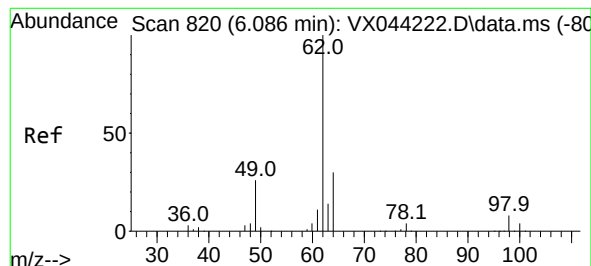
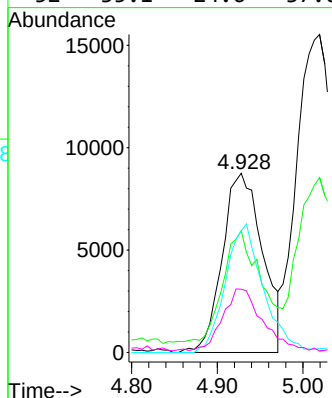
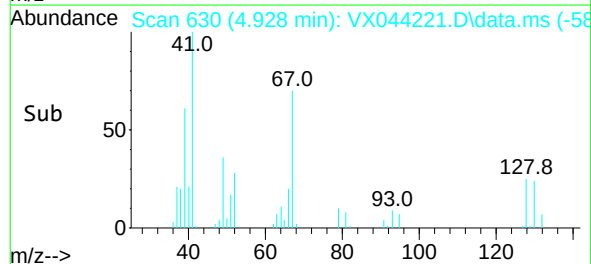
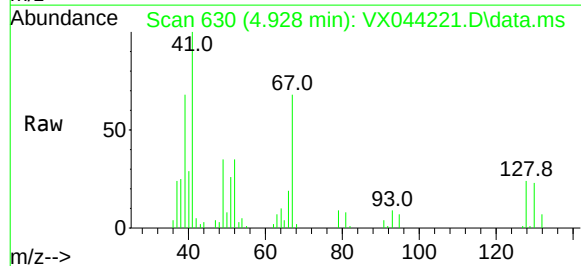
52 35.1 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#42

1,2-Dichloroethane

Concen: 19.456 ug/l

RT: 6.086 min Scan# 820

Delta R.T. -0.000 min

Lab File: VX044221.D

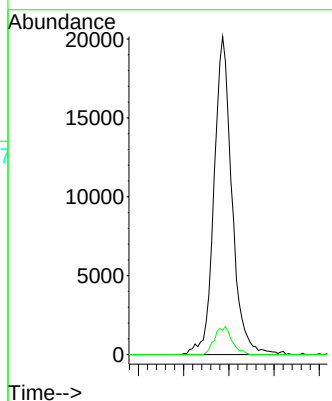
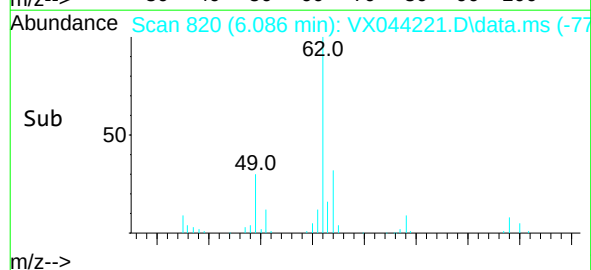
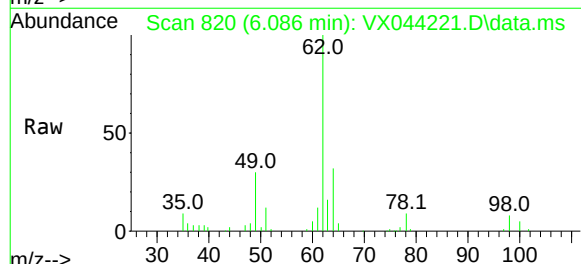
Acq: 11 Dec 2024 11:50

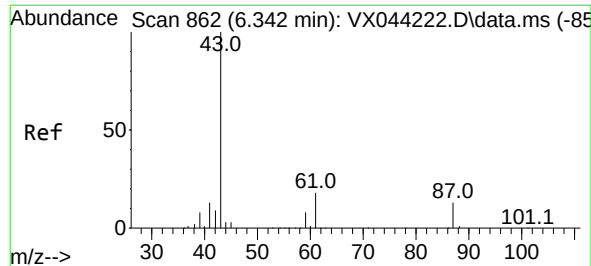
Tgt Ion: 62 Resp: 55377

Ion Ratio Lower Upper

62 100

98 8.5 0.0 15.8





#43

Isopropyl Acetate

Concen: 19.301 ug/l

RT: 6.342 min Scan# 862

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

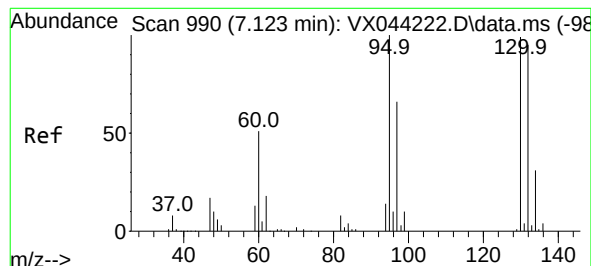
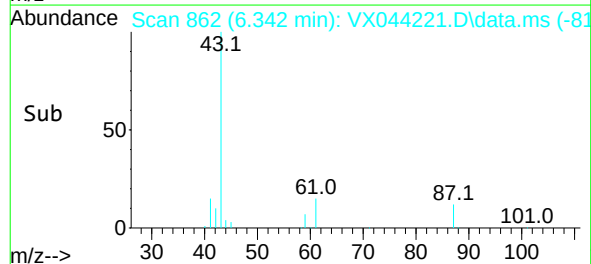
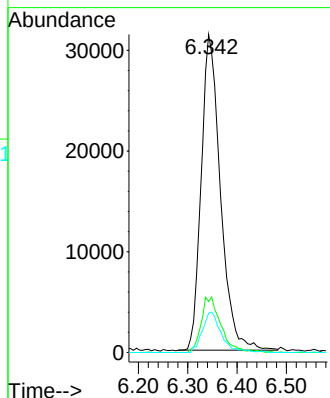
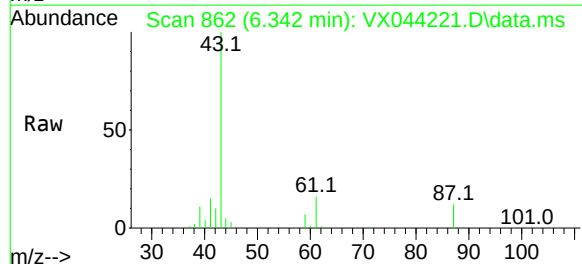
ClientSampleId :

VSTDIC020

Tgt Ion:	43	Resp:	84866
Ion	Ratio	Lower	Upper
43	100		
61	17.7	14.2	21.2
87	12.5	10.2	15.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#44

Trichloroethene

Concen: 19.149 ug/l

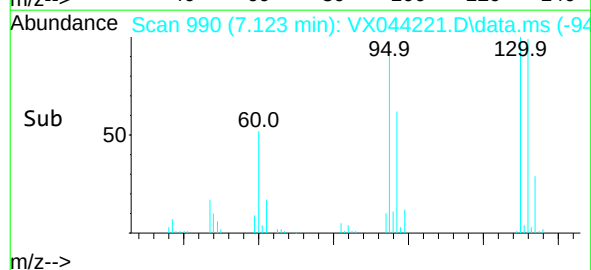
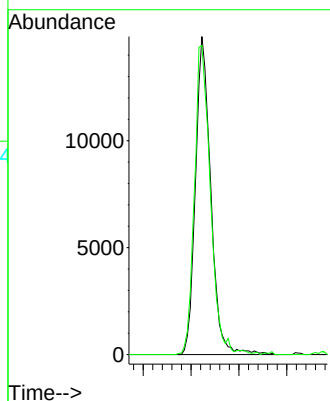
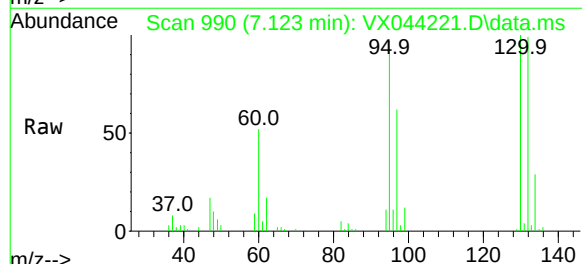
RT: 7.123 min Scan# 990

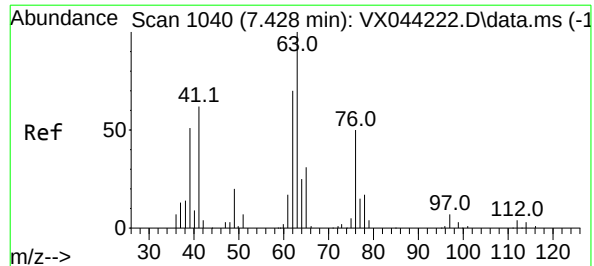
Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Tgt Ion:	130	Resp:	32995
Ion	Ratio	Lower	Upper
130	100		
95	97.1	0.0	201.4





#45

1,2-Dichloropropane

Concen: 19.025 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 63 Resp: 33585

Ion Ratio Lower Upper

63 100

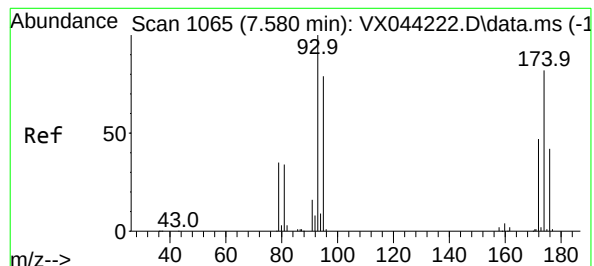
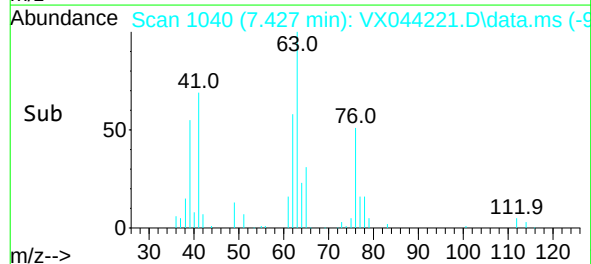
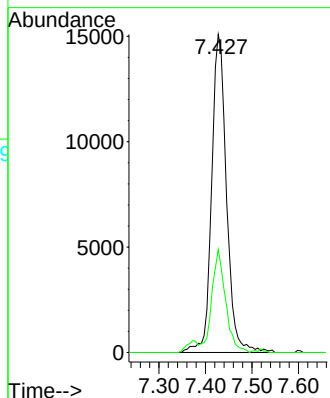
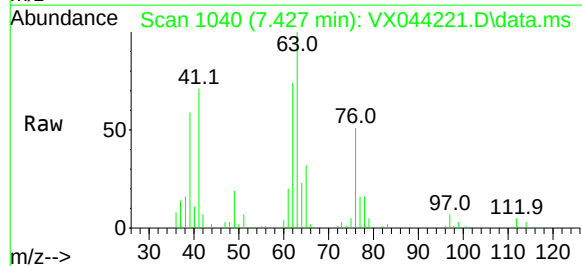
65 32.4 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#46

Dibromomethane

Concen: 19.199 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

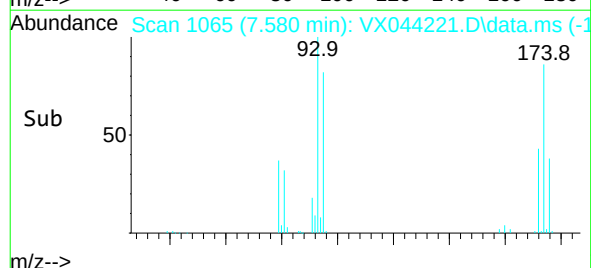
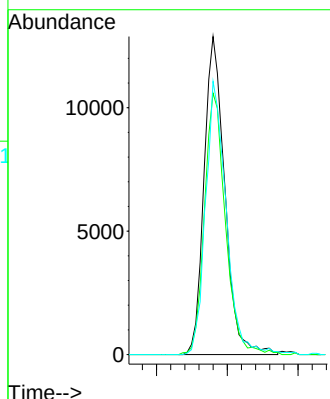
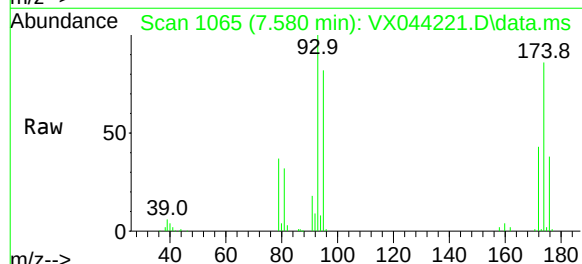
Tgt Ion: 93 Resp: 26293

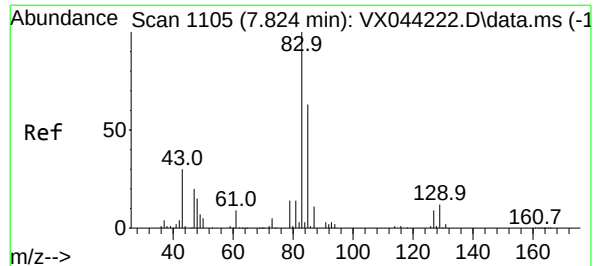
Ion Ratio Lower Upper

93 100

95 83.0 65.4 98.2

174 86.1 67.9 101.9





#47

Bromodichloromethane

Concen: 18.735 ug/l

RT: 7.818 min Scan# 1105

Delta R.T. -0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 83 Resp: 44312

Ion Ratio Lower Upper

83 100

85 62.7 50.6 75.8

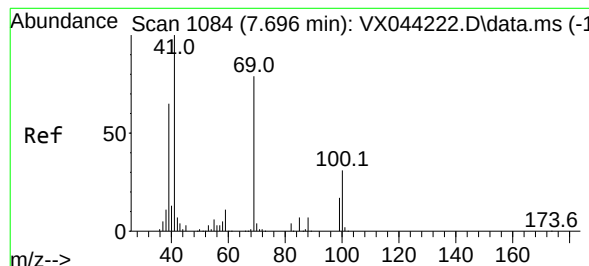
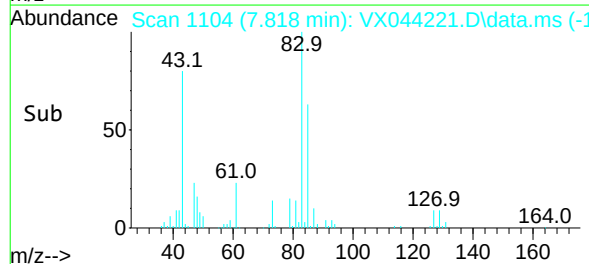
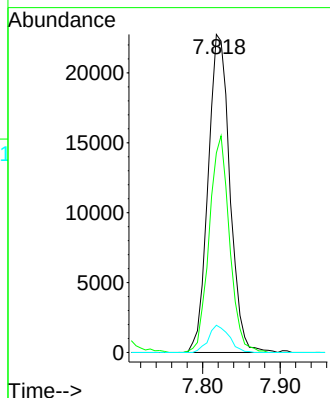
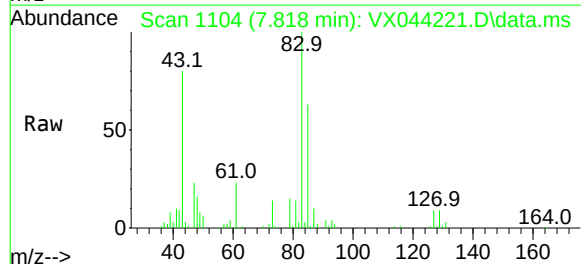
127 8.6 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#48

Methyl methacrylate

Concen: 19.032 ug/l

RT: 7.696 min Scan# 1084

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

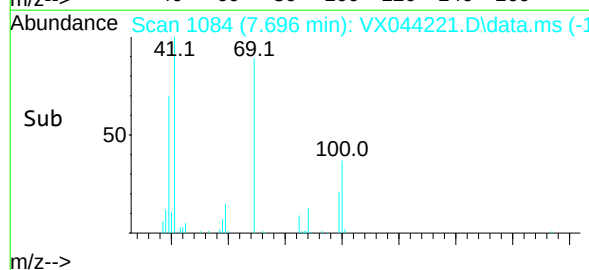
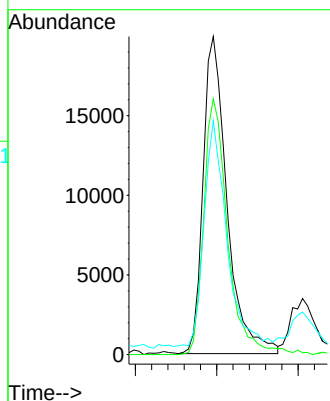
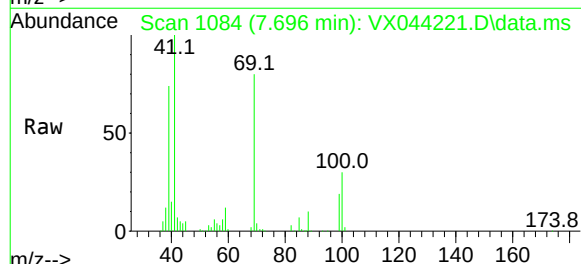
Tgt Ion: 41 Resp: 40620

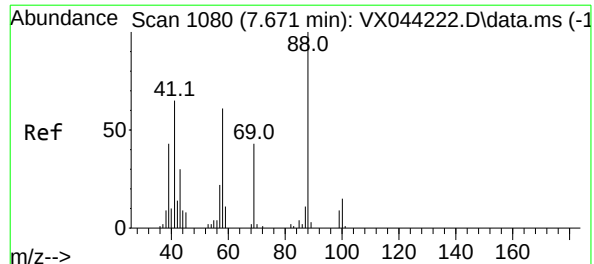
Ion Ratio Lower Upper

41 100

69 80.5 62.4 93.6

39 67.5 53.3 79.9





#49

1,4-Dioxane

Concen: 391.518 ug/l m

RT: 7.671 min Scan# 1080

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 88 Resp: 14281

Ion Ratio Lower Upper

88 100

43 34.0 27.1 40.7

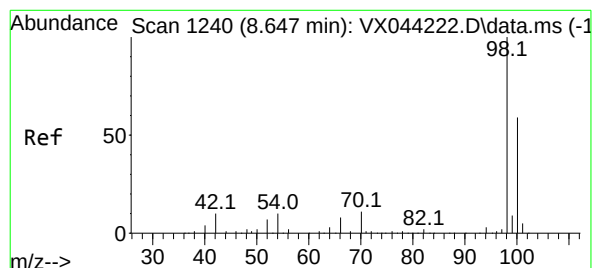
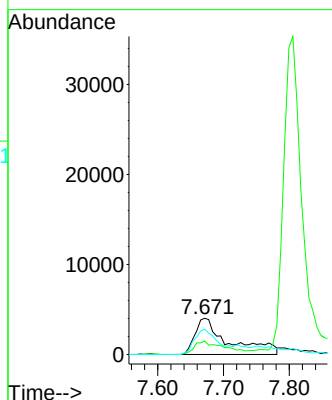
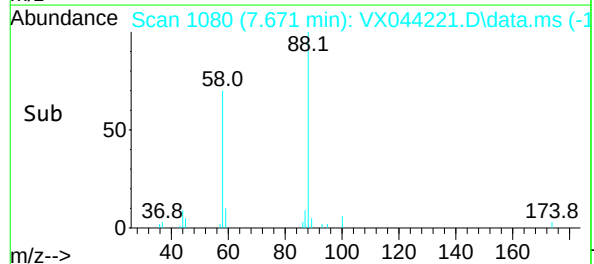
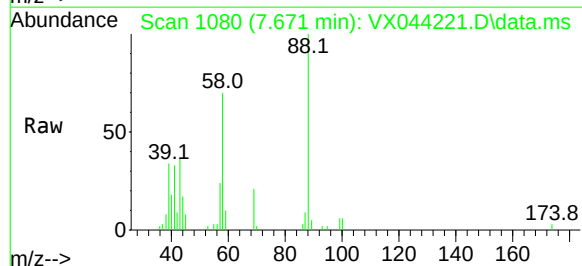
58 49.5 41.0 61.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#50

Toluene-d8

Concen: 17.284 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX044221.D

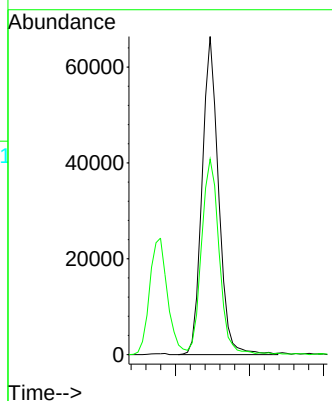
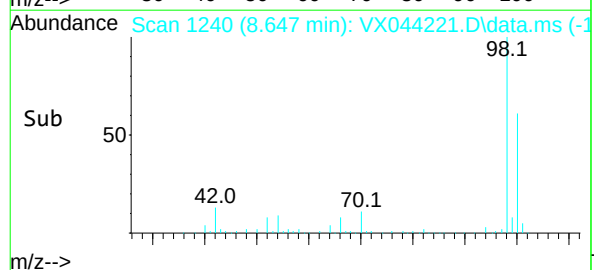
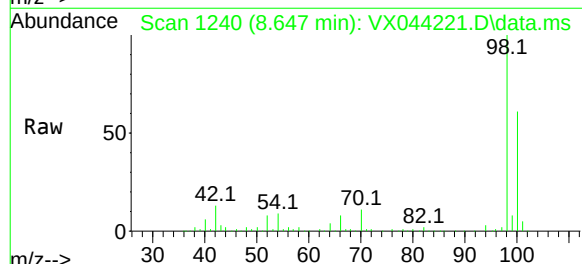
Acq: 11 Dec 2024 11:50

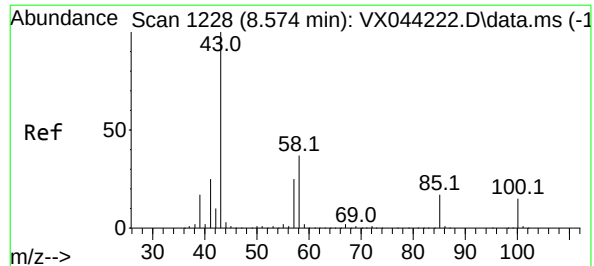
Tgt Ion: 98 Resp: 102660

Ion Ratio Lower Upper

98 100

100 65.4 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 98.429 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 278267

Ion Ratio Lower Upper

43 100

58 36.6 29.4 44.0

Instrument :

MSVOA_X

ClientSampleId :

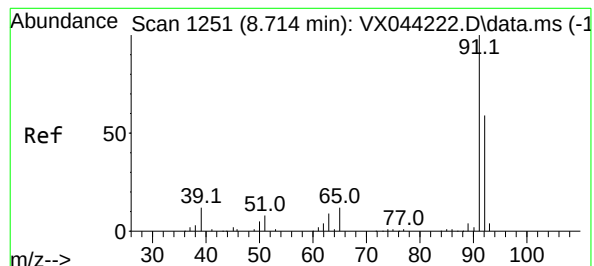
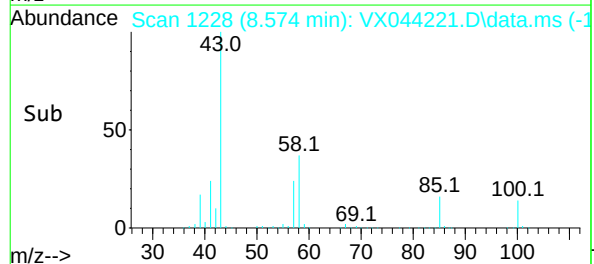
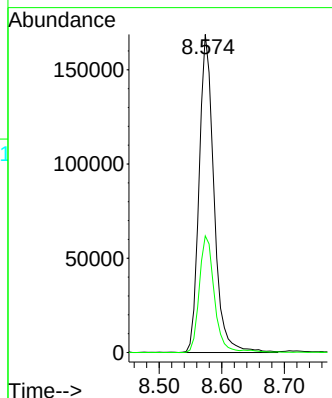
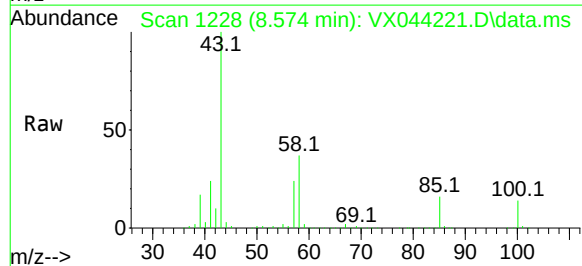
VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#52

Toluene

Concen: 19.113 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. -0.000 min

Lab File: VX044221.D

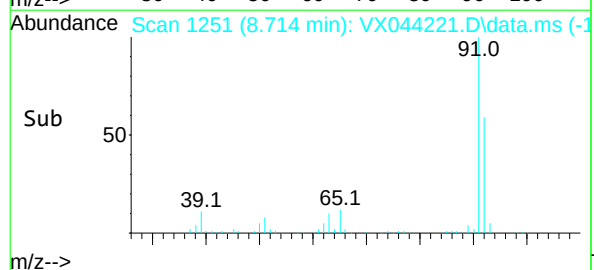
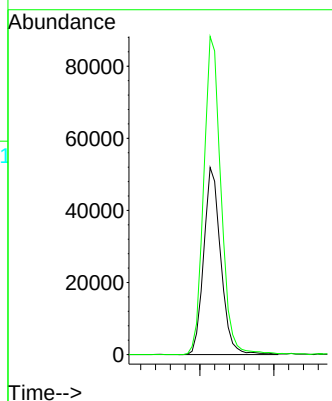
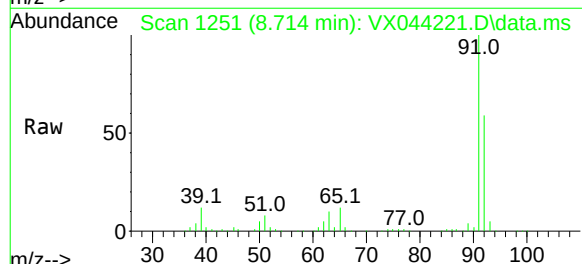
Acq: 11 Dec 2024 11:50

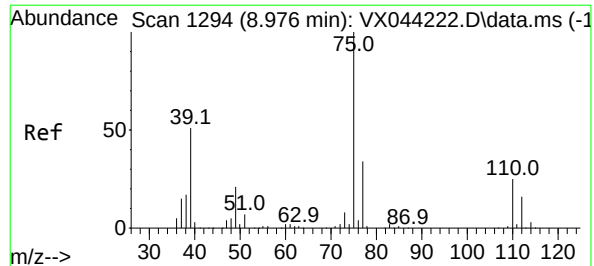
Tgt Ion: 92 Resp: 82934

Ion Ratio Lower Upper

92 100

91 172.9 137.0 205.6





#53

t-1,3-Dichloropropene

Concen: 18.785 ug/l

RT: 8.976 min Scan# 12

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 75 Resp: 44614

Ion Ratio Lower Upper

75 100

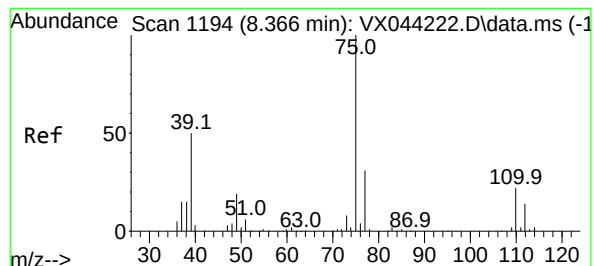
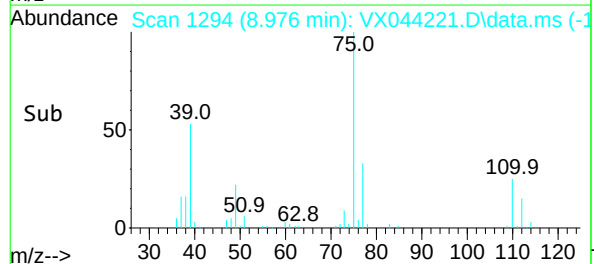
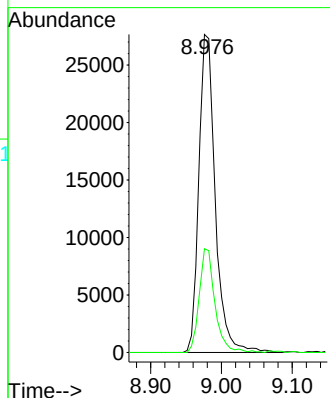
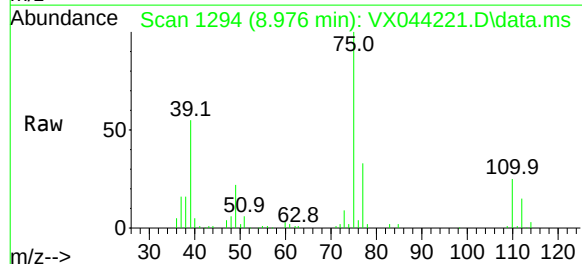
77 32.6 27.2 40.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#54

cis-1,3-Dichloropropene

Concen: 19.258 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

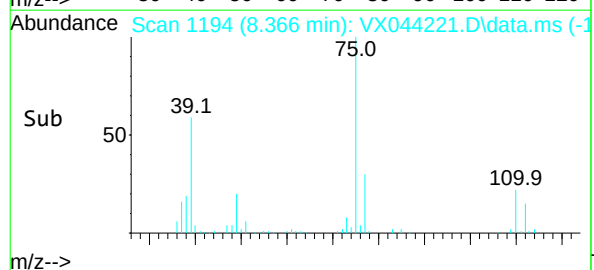
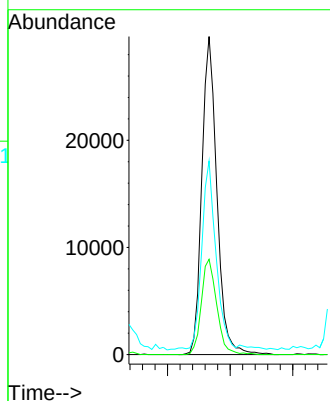
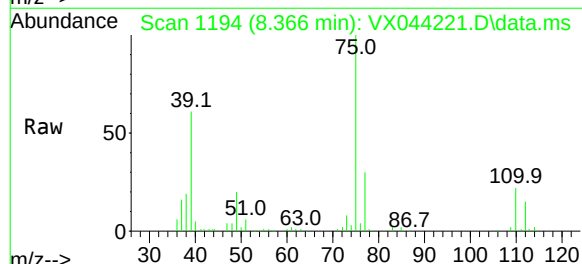
Tgt Ion: 75 Resp: 49596

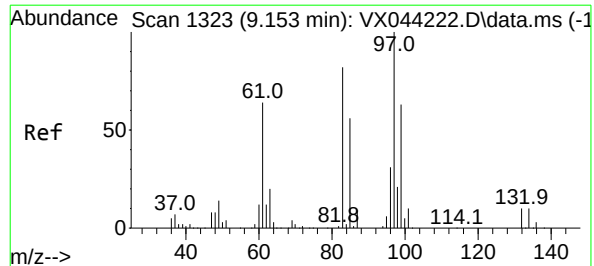
Ion Ratio Lower Upper

75 100

77 30.0 24.7 37.1

39 59.4 40.3 60.5





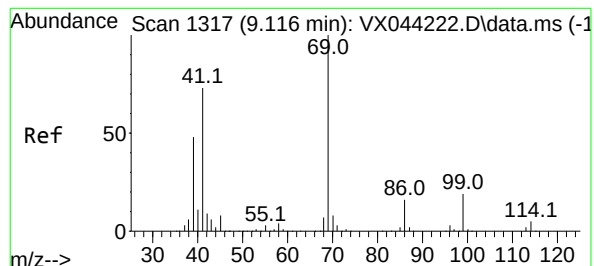
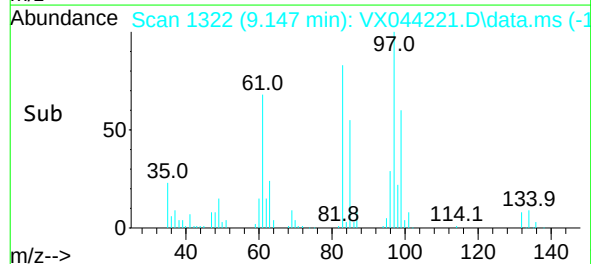
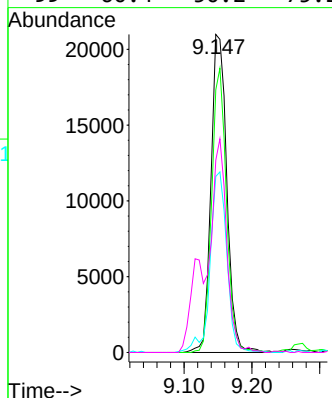
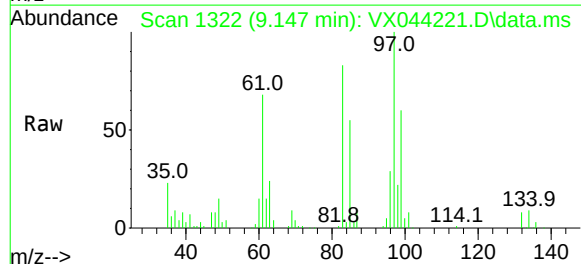
#55
1,1,2-Trichloroethane
Concen: 19.732 ug/l
RT: 9.147 min Scan# 1323
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:	97	Resp:	34013
Ion	Ratio	Lower	Upper
97	100		
83	82.6	65.3	97.9
85	55.3	44.6	67.0
99	60.4	50.2	75.2

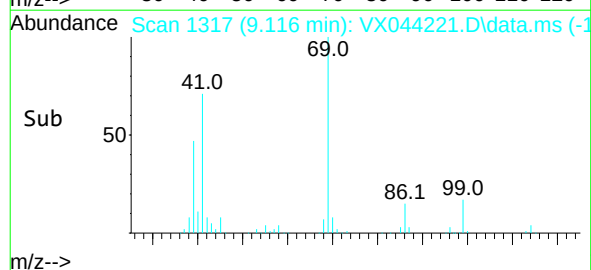
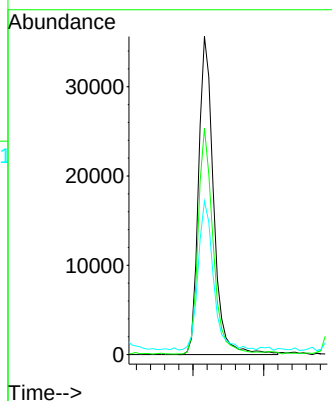
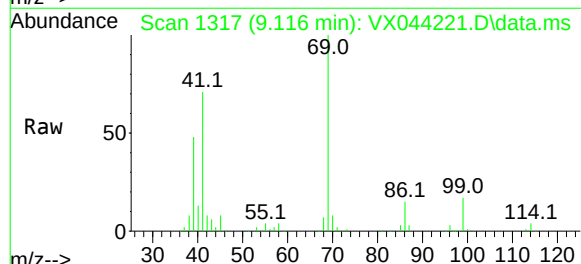
Manual Integrations
APPROVED

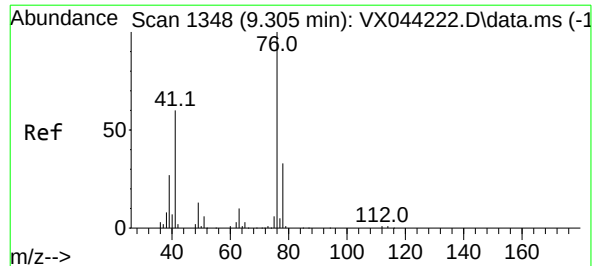
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#56
Ethyl methacrylate
Concen: 19.318 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:	69	Resp:	52571
Ion	Ratio	Lower	Upper
69	100		
41	70.3	56.6	85.0
39	47.8	37.4	56.0





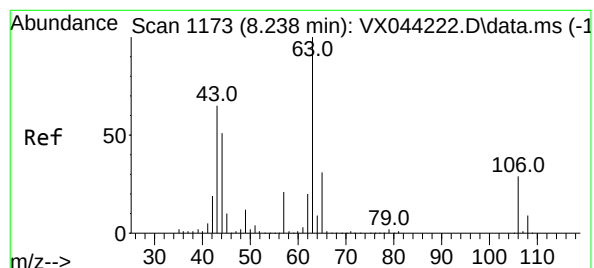
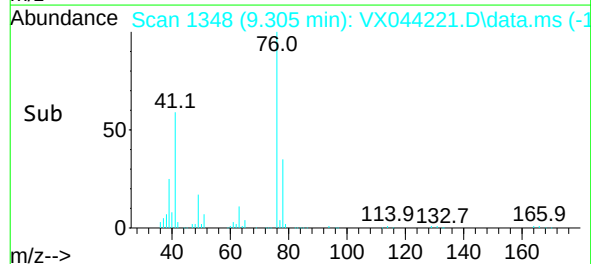
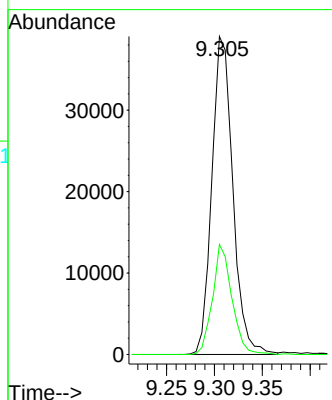
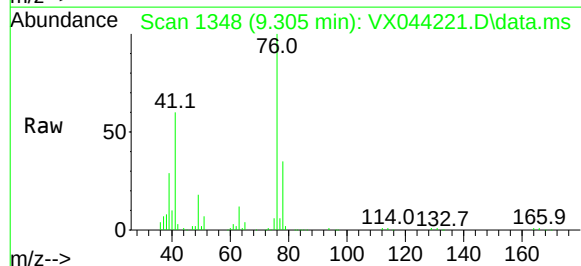
#57
1,3-Dichloropropane
Concen: 19.827 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 59489
Ion Ratio Lower Upper
76 100
78 31.9 26.5 39.7

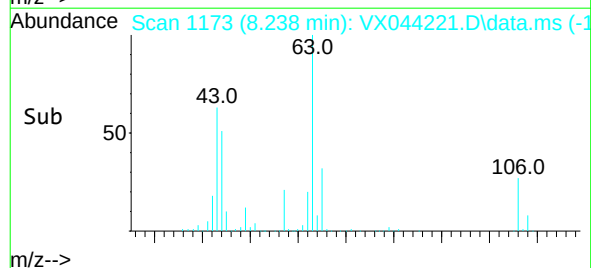
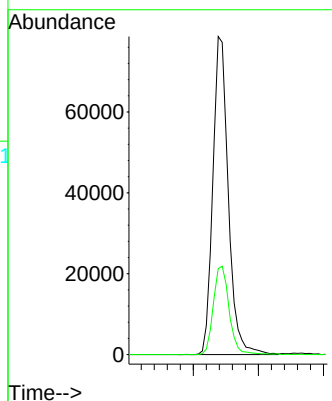
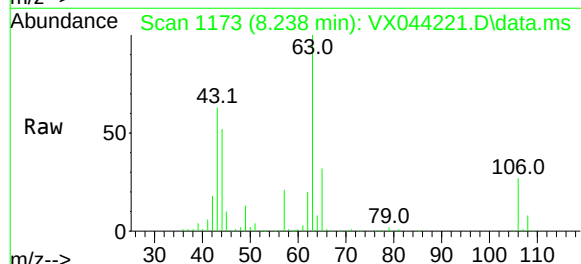
Manual Integrations
APPROVED

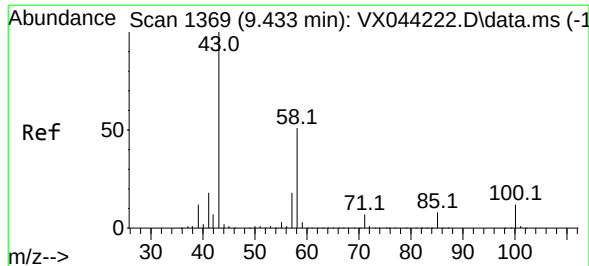
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#58
2-Chloroethyl Vinyl ether
Concen: 94.642 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 63 Resp: 129900
Ion Ratio Lower Upper
63 100
106 28.4 22.8 34.2





#59

2-Hexanone

Concen: 101.440 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 207578

Ion Ratio Lower Upper

43 100

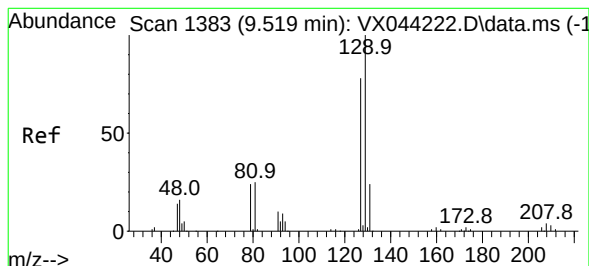
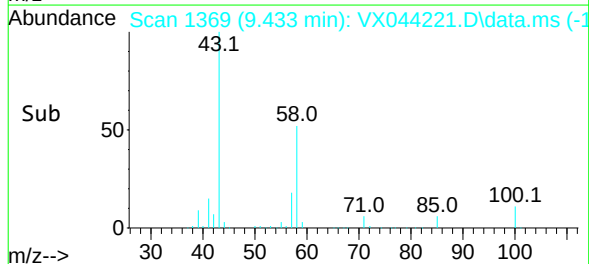
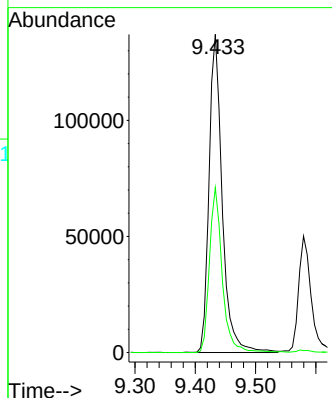
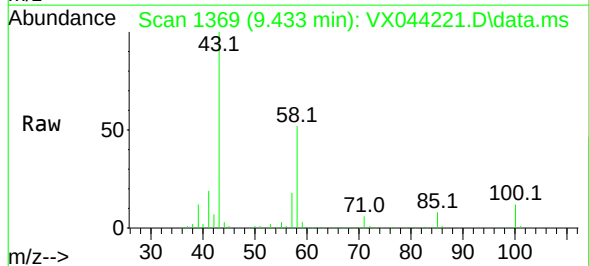
58 50.4 25.7 77.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#60

Dibromochloromethane

Concen: 18.318 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX044221.D

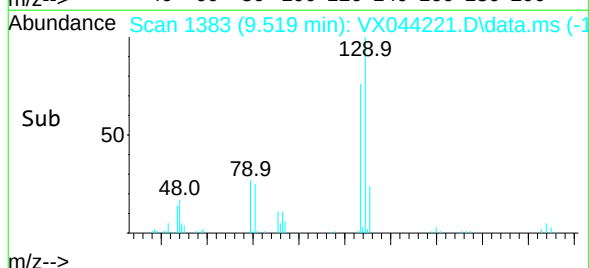
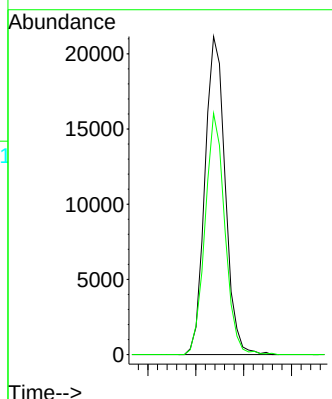
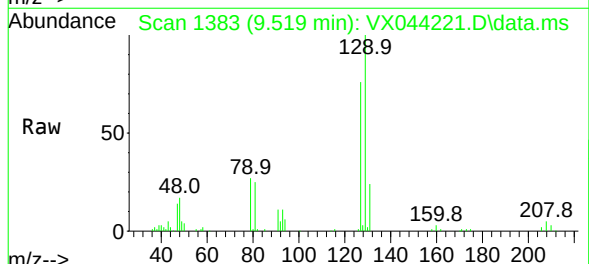
Acq: 11 Dec 2024 11:50

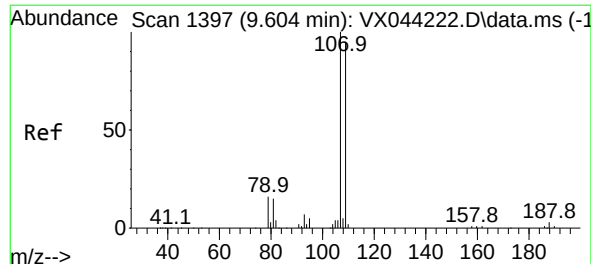
Tgt Ion:129 Resp: 31066

Ion Ratio Lower Upper

129 100

127 74.1 38.5 115.3





#61

1,2-Dibromoethane

Concen: 19.935 ug/l

RT: 9.610 min Scan# 1397

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:107 Resp: 34978

Ion Ratio Lower Upper

107 100

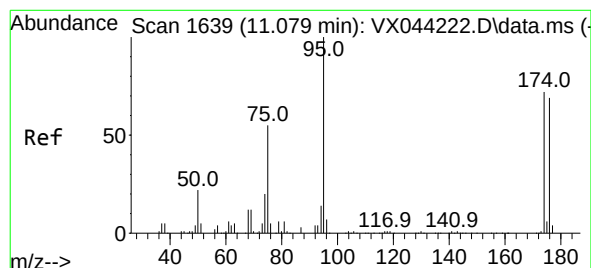
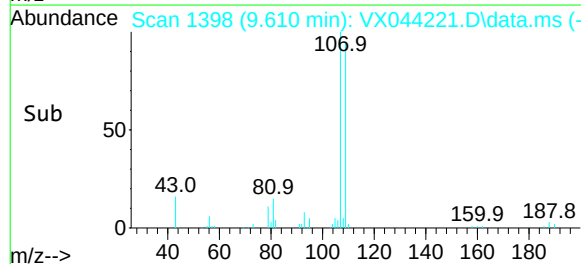
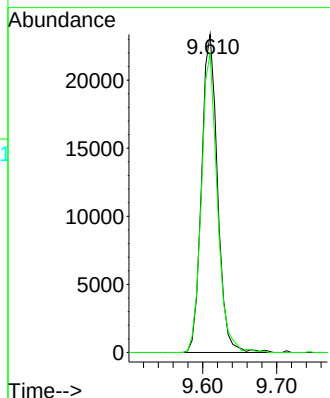
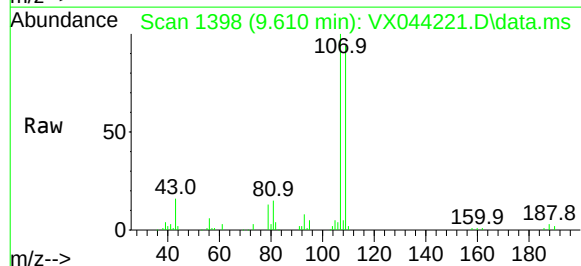
109 94.4 77.0 115.4

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#62

4-Bromofluorobenzene

Concen: 17.175 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

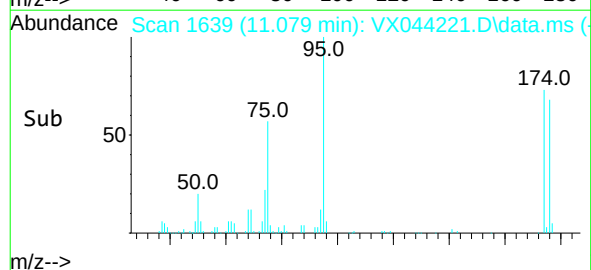
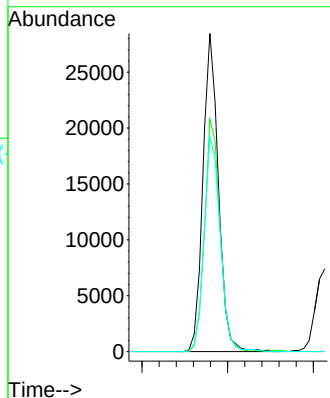
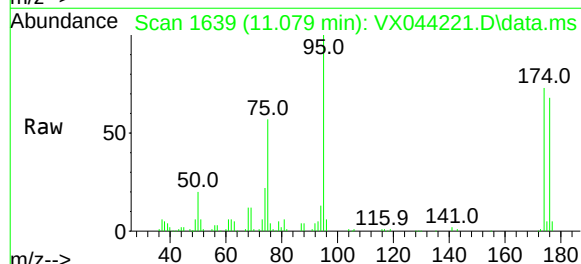
Tgt Ion: 95 Resp: 35645

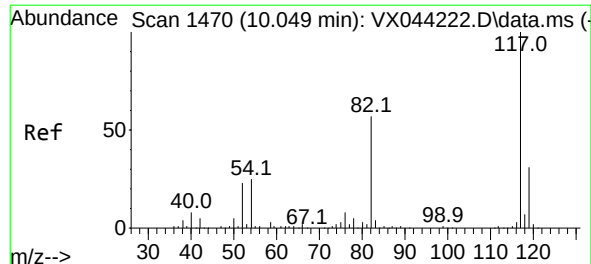
Ion Ratio Lower Upper

95 100

174 73.3 0.0 145.8

176 70.5 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

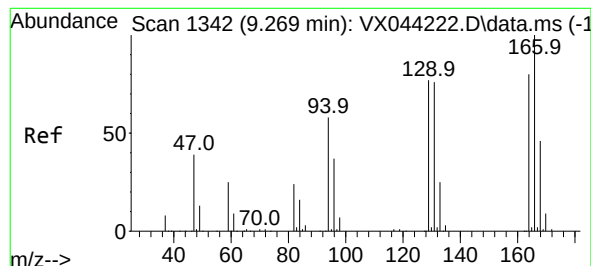
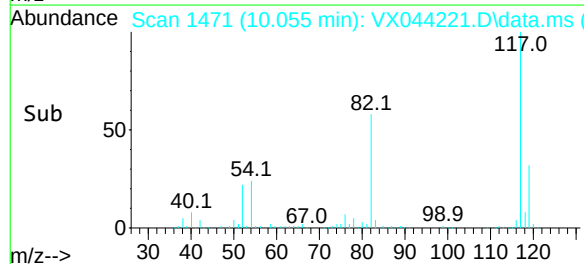
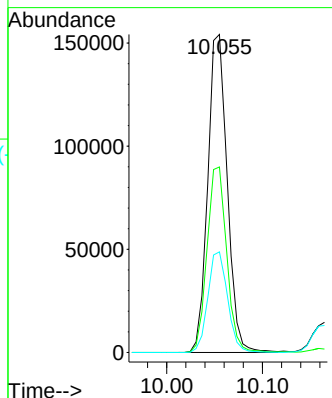
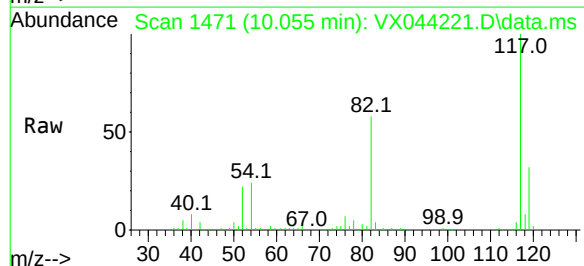
ClientSampleId :

VSTDICC020

Tgt Ion:	117	Resp:	218148
Ion	Ratio	Lower	Upper
117	100		
82	58.3	45.8	68.8
119	31.6	25.0	37.4

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#64

Tetrachloroethene

Concen: 19.133 ug/l

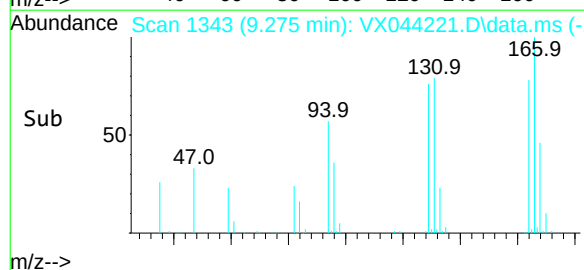
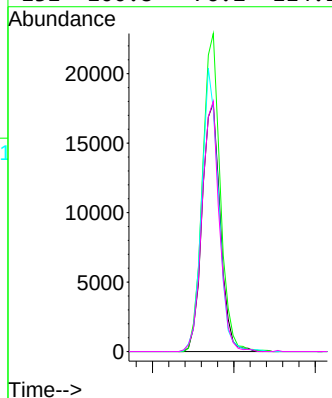
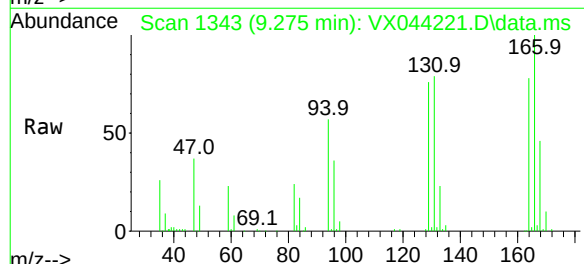
RT: 9.275 min Scan# 1343

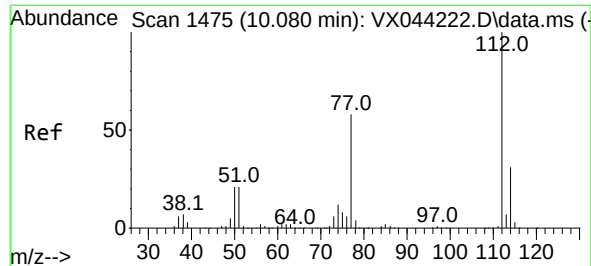
Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Tgt Ion:	164	Resp:	27702
Ion	Ratio	Lower	Upper
164	100		
166	128.0	100.4	150.6
129	97.5	77.2	115.8
131	100.8	76.2	114.2





#65

Chlorobenzene

Concen: 19.389 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion:112 Resp: 90631

Ion Ratio Lower Upper

112 100

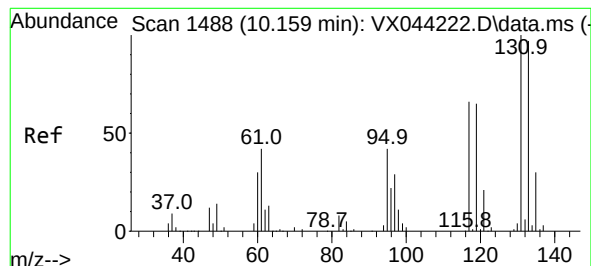
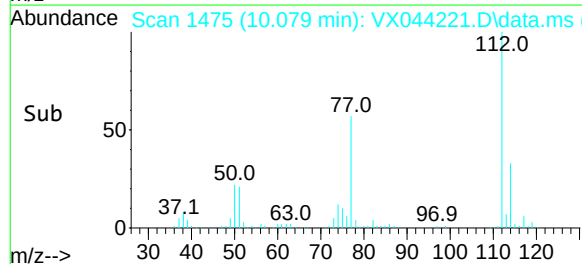
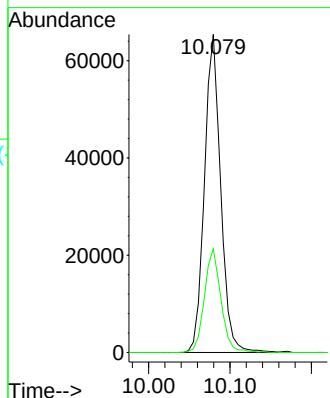
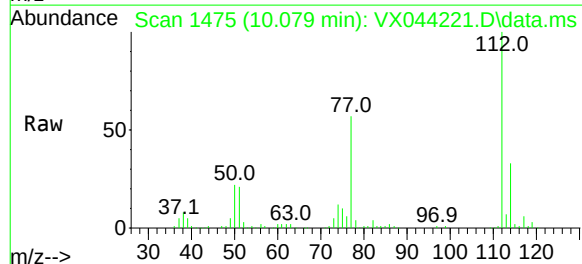
114 32.6 25.0 37.6

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#66

1,1,1,2-Tetrachloroethane

Concen: 19.392 ug/l

RT: 10.165 min Scan# 1489

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

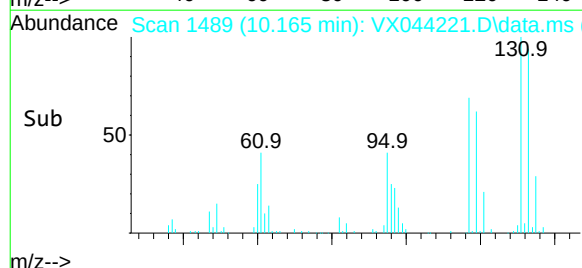
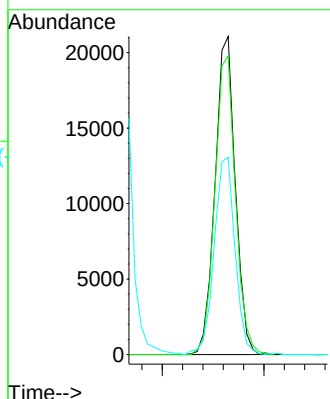
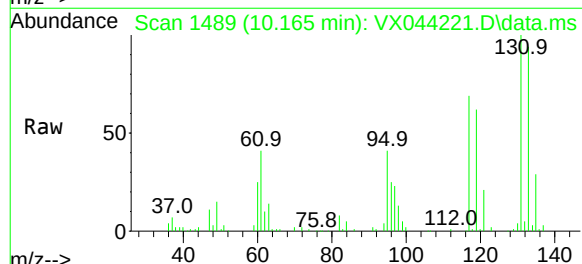
Tgt Ion:131 Resp: 29132

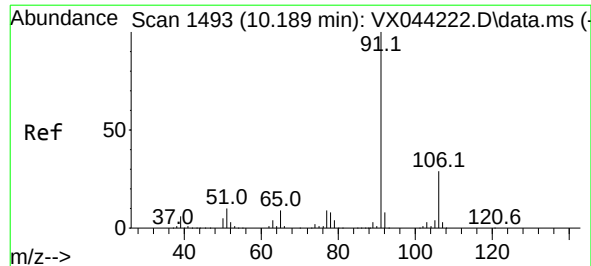
Ion Ratio Lower Upper

131 100

133 95.8 47.3 141.8

119 64.0 31.6 95.0





#67

Ethyl Benzene

Concen: 19.619 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 158455

Ion Ratio Lower Upper

91 100

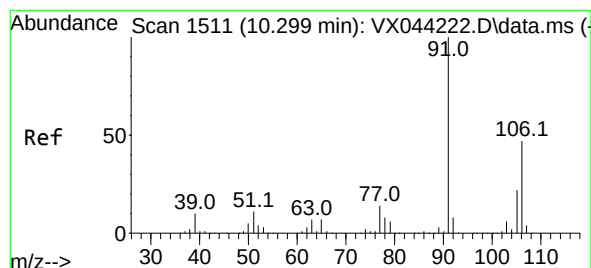
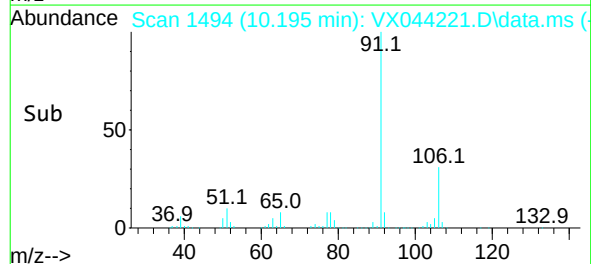
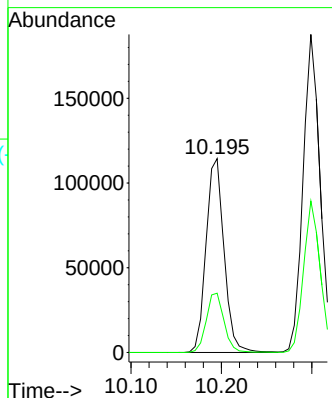
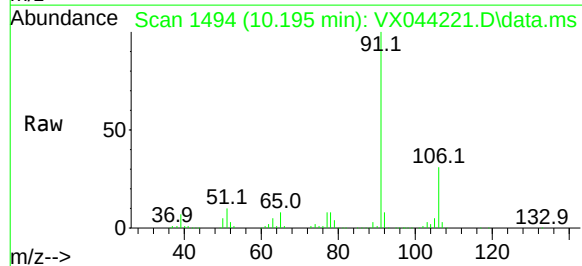
106 30.6 23.5 35.3

Manual Integrations

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Supervised By :Mahesh Dadoda 12/12/2024



#68

m/p-Xylenes

Concen: 39.183 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX044221.D

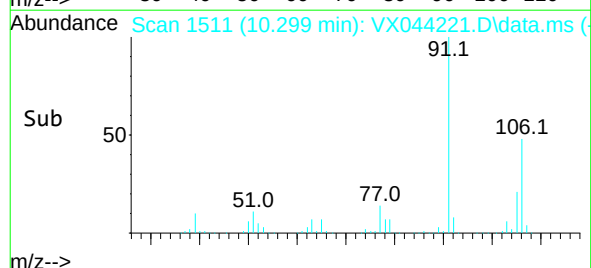
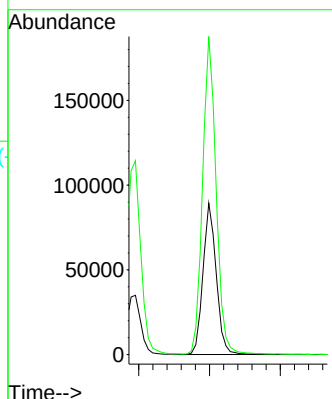
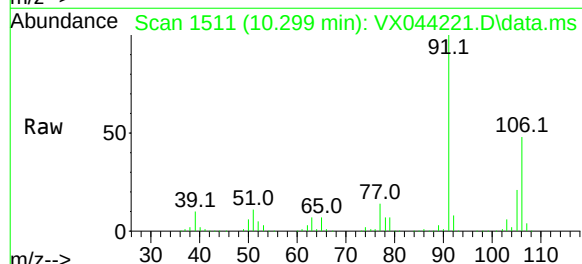
Acq: 11 Dec 2024 11:50

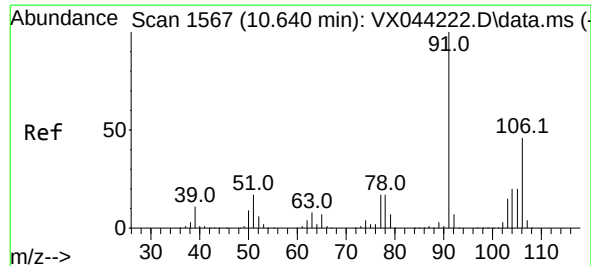
Tgt Ion:106 Resp: 116126

Ion Ratio Lower Upper

106 100

91 215.5 170.2 255.2





#69

o-Xylene

Concen: 19.938 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:106 Resp: 59787

Ion Ratio Lower Upper

106 100

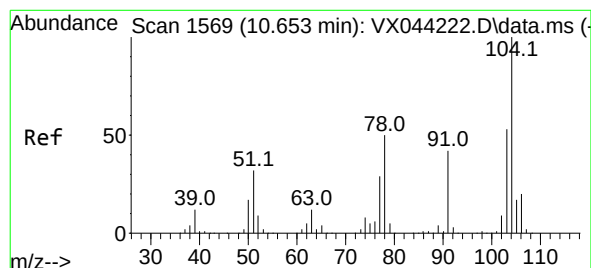
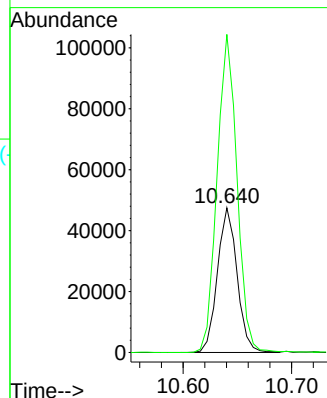
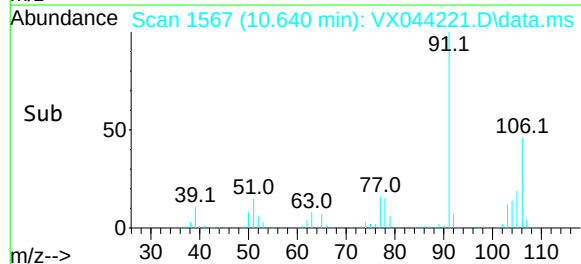
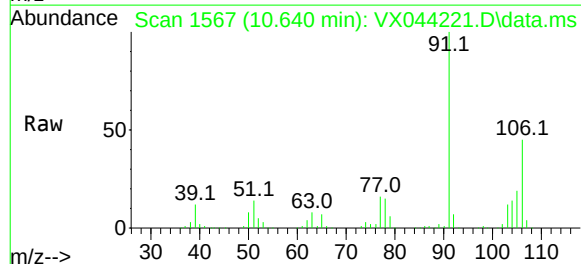
91 223.6 112.3 337.0

Manual Integrations

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Supervised By :Mahesh Dadoda 12/12/2024



#70

Styrene

Concen: 19.946 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

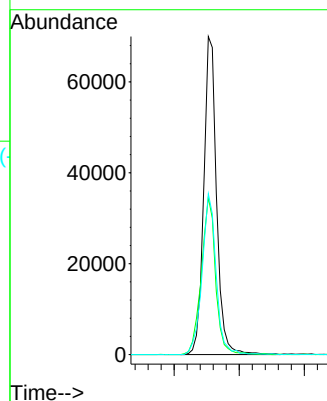
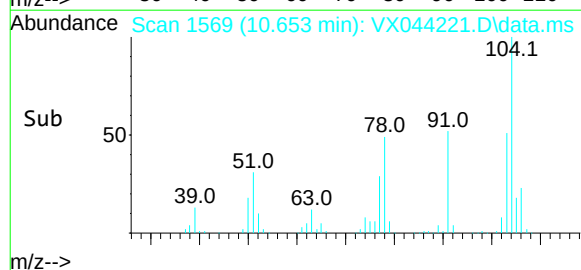
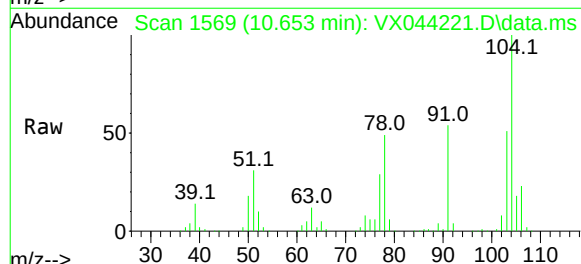
Tgt Ion:104 Resp: 95883

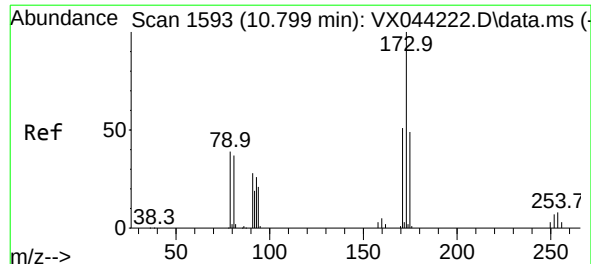
Ion Ratio Lower Upper

104 100

78 54.7 44.6 67.0

103 55.2 45.4 68.0





#71

Bromoform

Concen: 18.112 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

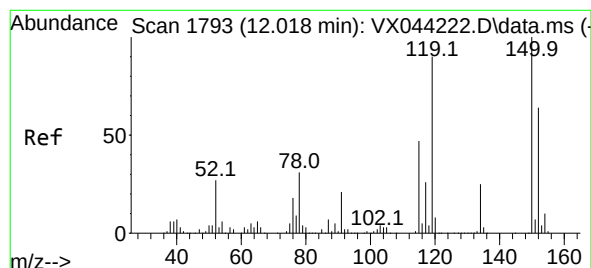
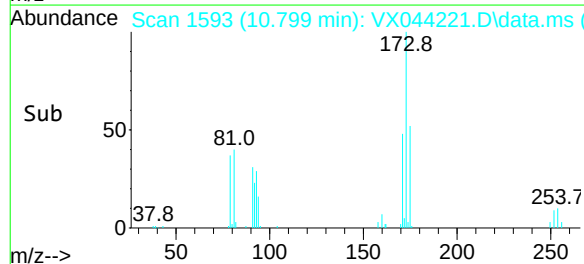
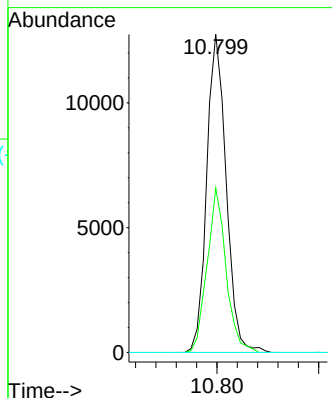
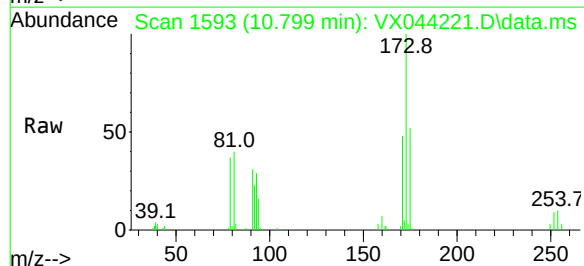
ClientSampleId :

VSTDICC020

Tgt Ion:	173	Resp:	16924
Ion Ratio	Lower	Upper	
173	100		
175	50.5	23.8	71.4
254	0.0	0.0	0.0

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

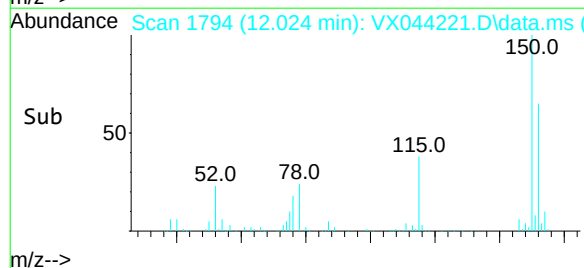
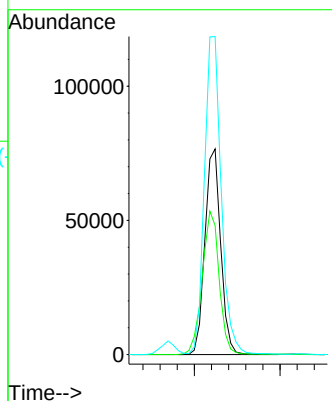
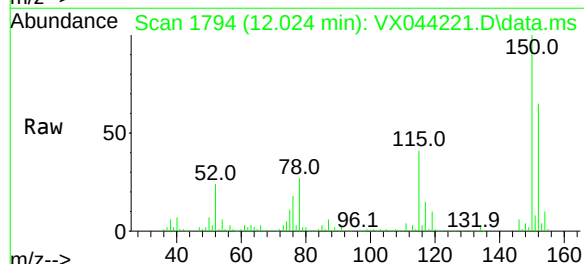
RT: 12.024 min Scan# 1794

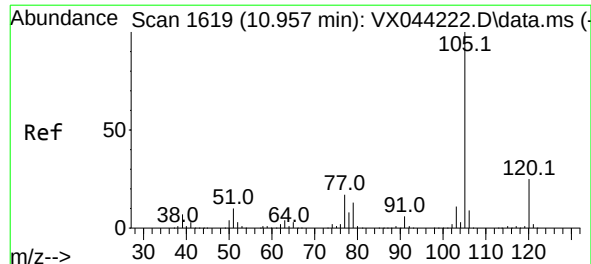
Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Tgt Ion:	152	Resp:	98180
Ion Ratio	Lower	Upper	
152	100		
115	74.8	44.5	133.3
150	164.2	0.0	353.8





#73

Isopropylbenzene

Concen: 20.481 ug/l

RT: 10.963 min Scan# 1619

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 105 Resp: 153935

Ion Ratio Lower Upper

105 100

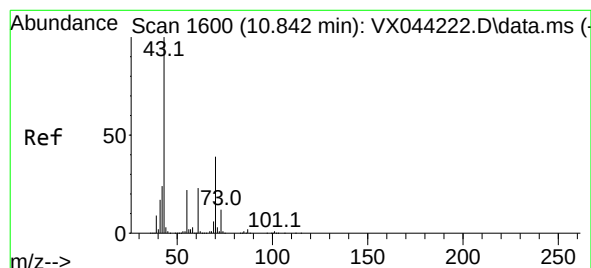
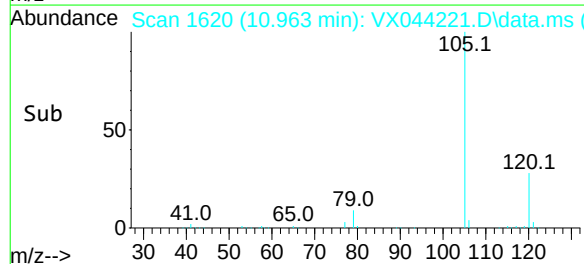
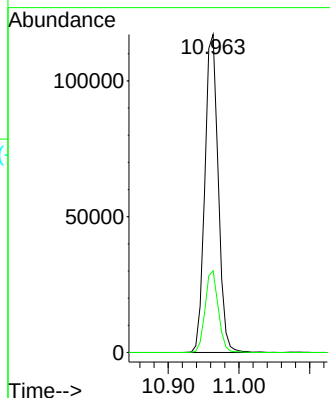
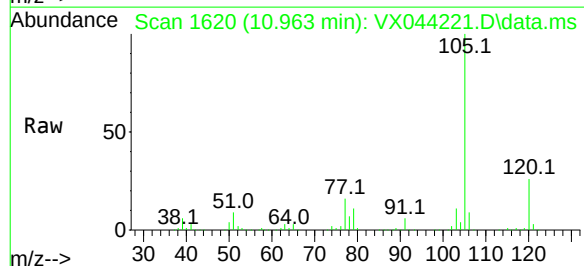
120 25.3 13.1 39.3

Manual Integrations

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#74

N-ethyl acetate

Concen: 20.049 ug/l

RT: 10.842 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 69643

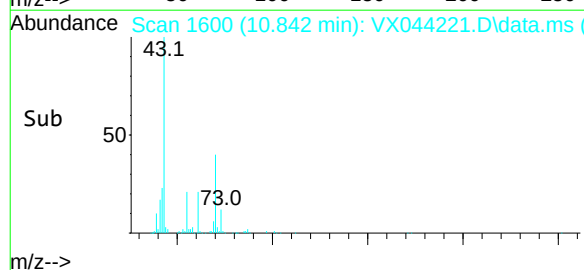
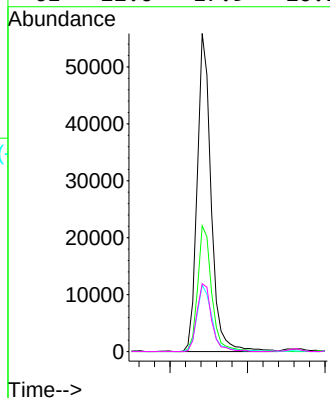
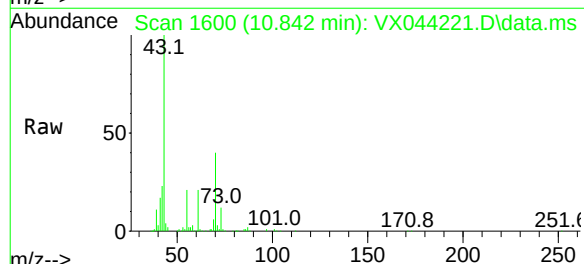
Ion Ratio Lower Upper

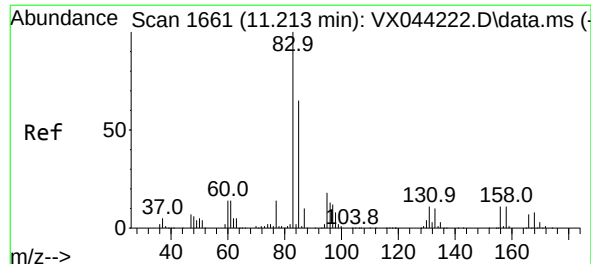
43 100

70 39.8 31.9 47.9

55 22.8 17.9 26.9

61 22.6 17.9 26.9





#75

1,1,2,2-Tetrachloroethane

Concen: 20.039 ug/l

RT: 11.213 min Scan# 1661

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

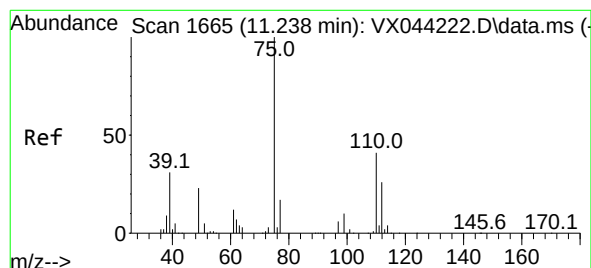
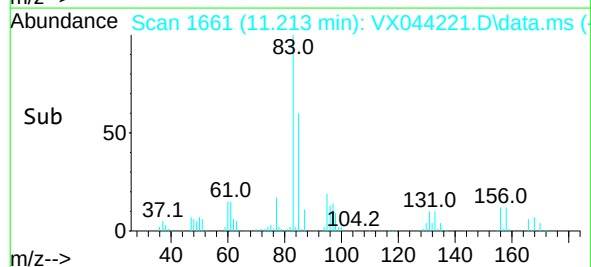
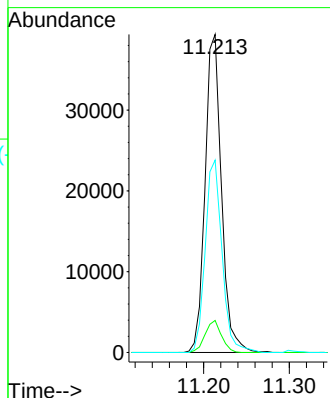
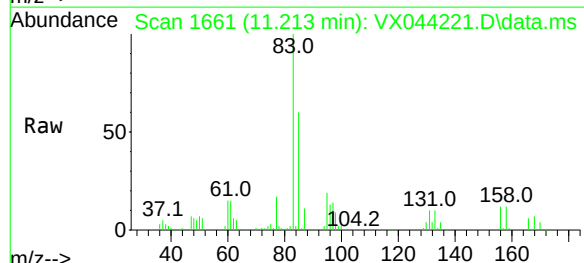
ClientSampleId :

VSTDICC020

Tgt Ion:	83	Resp:	52312
Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	62.1	32.5	97.4

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#76

1,2,3-Trichloropropane

Concen: 19.627 ug/l m

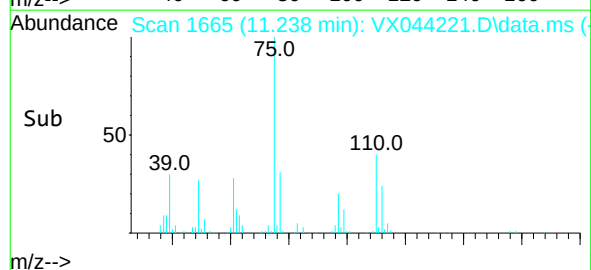
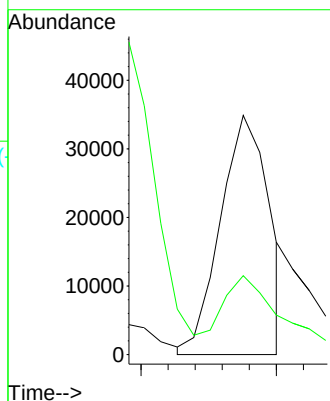
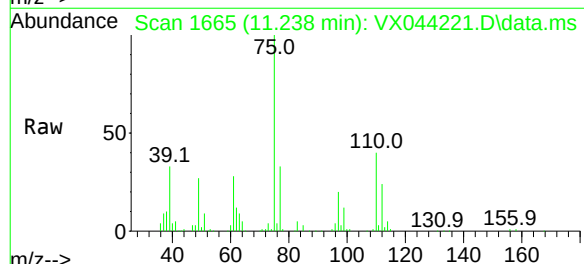
RT: 11.238 min Scan# 1665

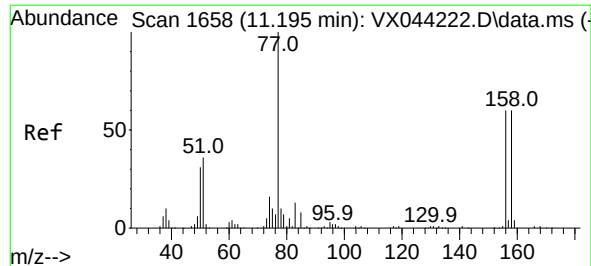
Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Tgt Ion:	75	Resp:	43726
Ion	Ratio	Lower	Upper
75	100		
77	42.1	20.9	62.7





#77

Bromobenzene

Concen: 19.176 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

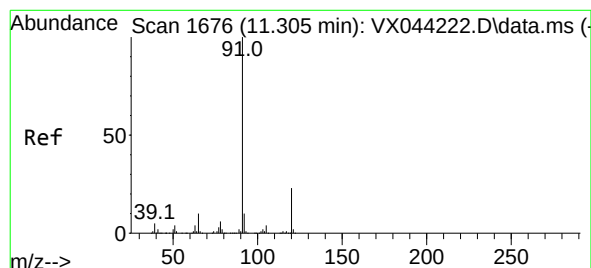
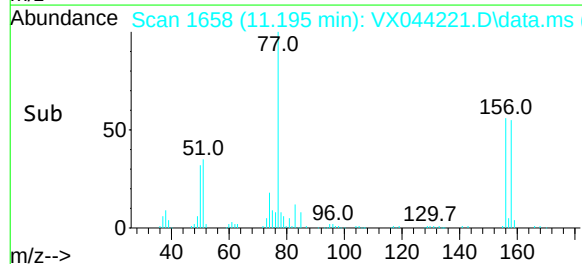
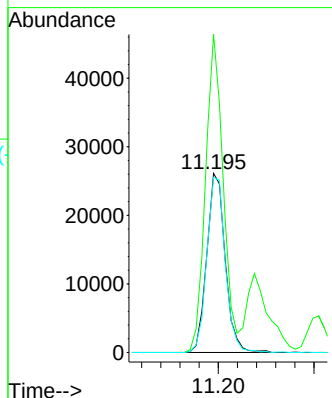
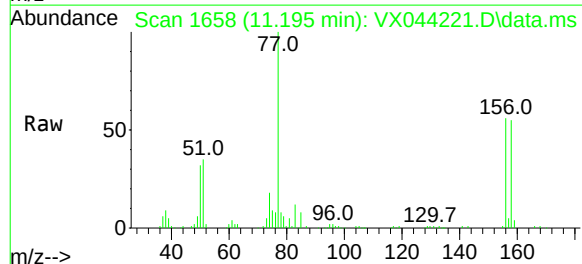
ClientSampleId :

VSTDICC020

Tgt Ion:	156	Resp:	34951
Ion	Ratio	Lower	Upper
156	100		
77	169.4	82.6	247.8
158	98.1	48.8	146.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#78

n-propylbenzene

Concen: 20.419 ug/l

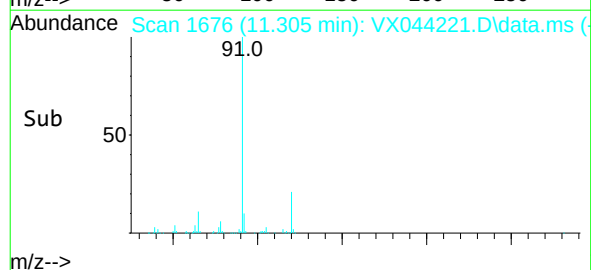
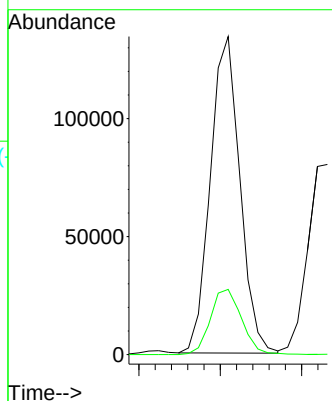
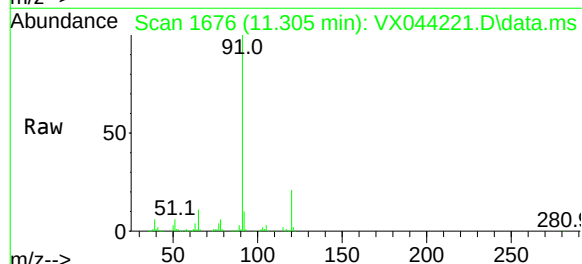
RT: 11.305 min Scan# 1676

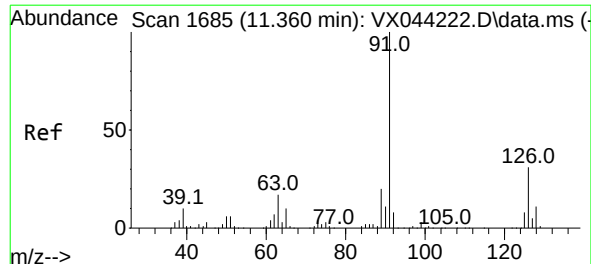
Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Tgt Ion:	91	Resp:	169622
Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.0	33.0





#79

2-Chlorotoluene

Concen: 19.788 ug/l

RT: 11.366 min Scan# 1685

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 106310

Ion Ratio Lower Upper

91 100

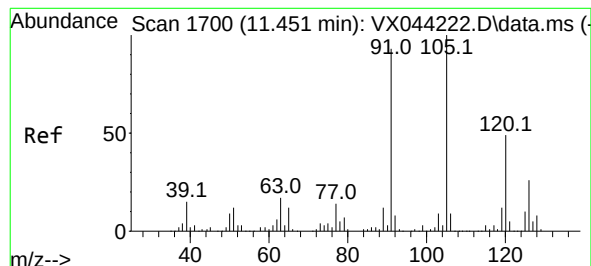
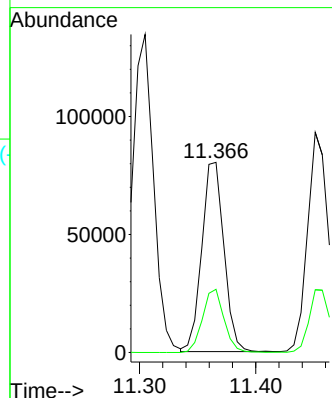
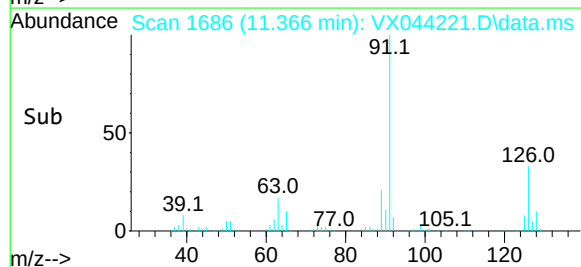
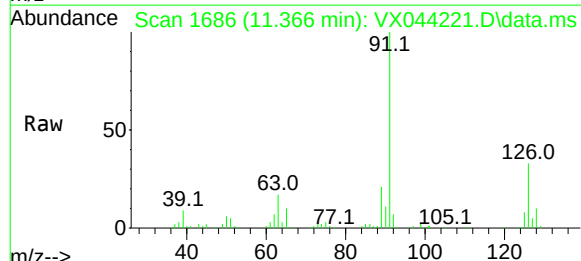
126 32.5 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#80

1,3,5-Trimethylbenzene

Concen: 20.315 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX044221.D

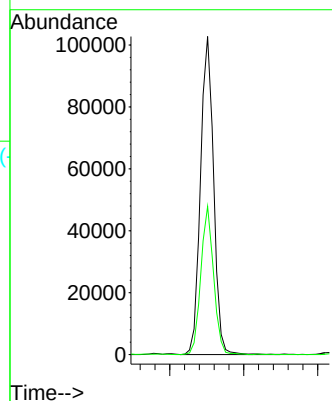
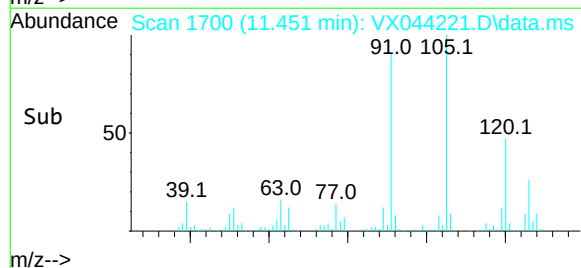
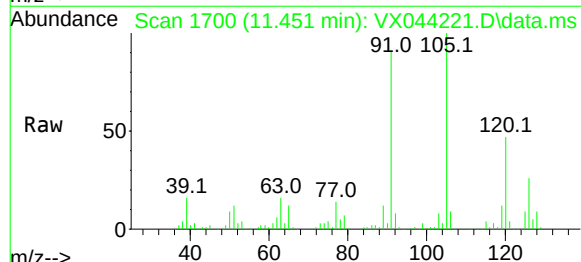
Acq: 11 Dec 2024 11:50

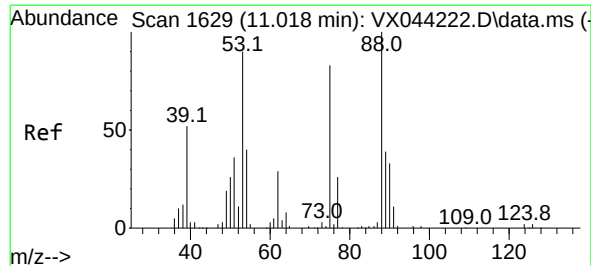
Tgt Ion:105 Resp: 126626

Ion Ratio Lower Upper

105 100

120 45.4 23.8 71.4





#81

trans-1,4-Dichloro-2-butene

Concen: 19.264 ug/l

RT: 11.018 min Scan# 1629

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

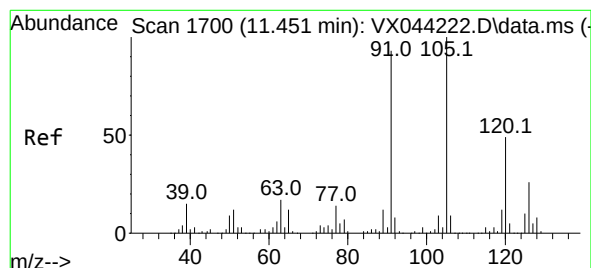
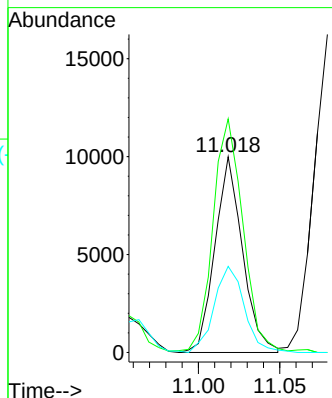
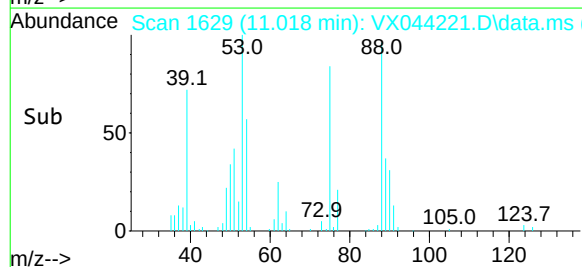
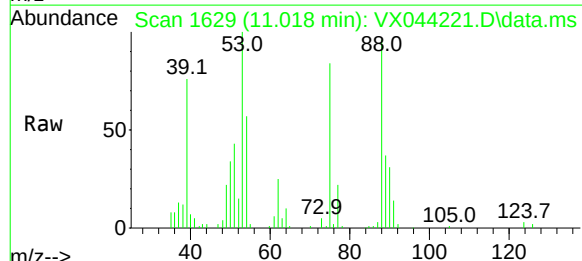
ClientSampleId :

VSTDIC020

Tgt Ion:	75	Resp:	11784
Ion	Ratio	Lower	Upper
75	100		
53	130.8	93.6	140.4
89	48.1	37.3	55.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#82

4-Chlorotoluene

Concen: 19.886 ug/l

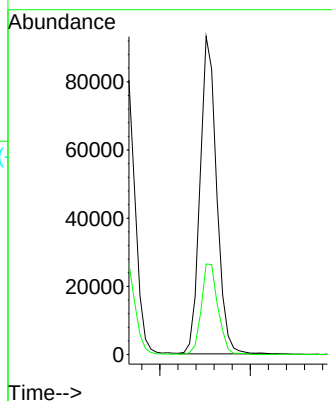
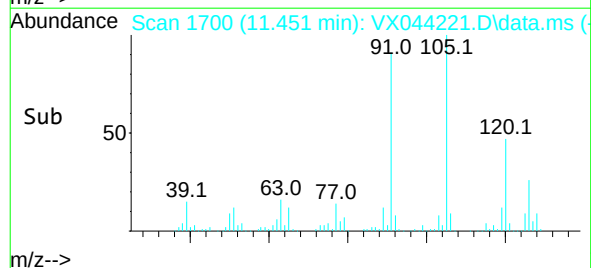
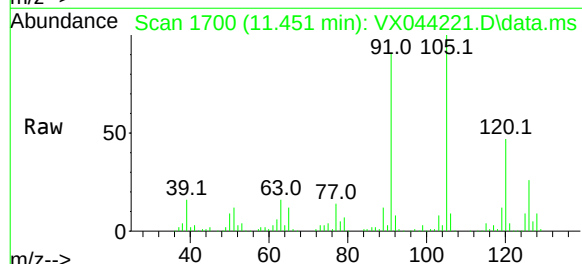
RT: 11.451 min Scan# 1700

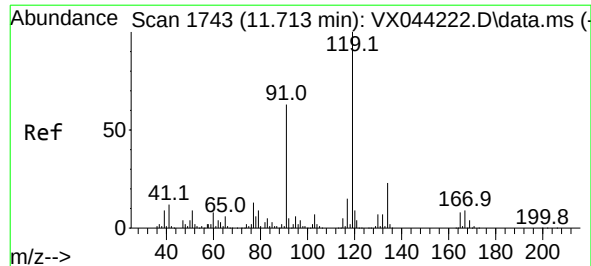
Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Tgt Ion:	91	Resp:	118309
Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.5	43.5





#83

tert-Butylbenzene

Concen: 19.794 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion:119 Resp: 121929

Ion Ratio Lower Upper

119 100

91 66.0 30.9 92.5

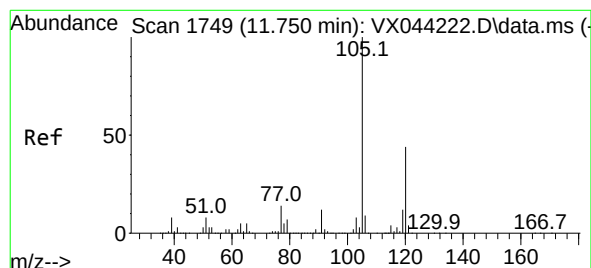
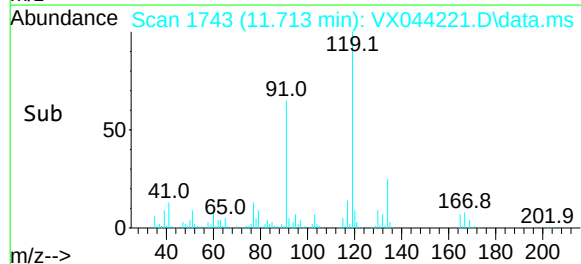
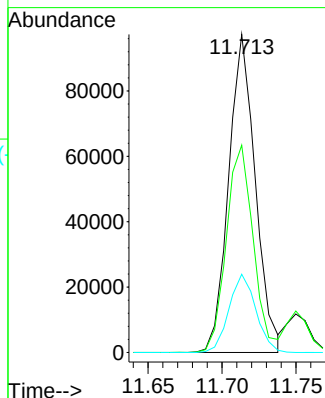
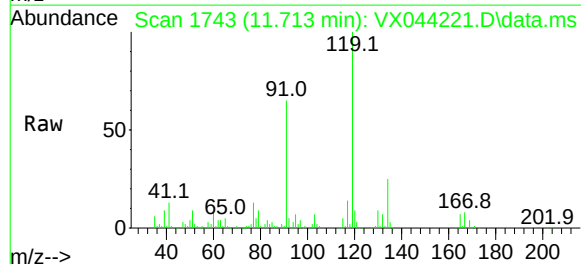
134 24.8 11.5 34.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#84

1,2,4-Trimethylbenzene

Concen: 20.574 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX044221.D

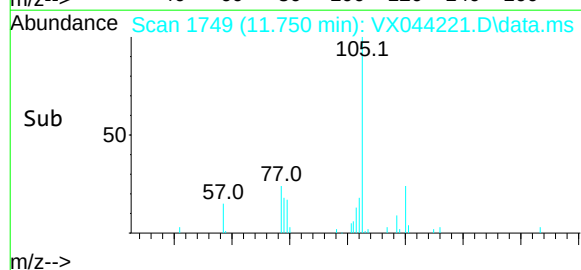
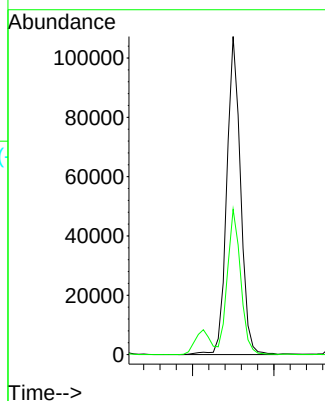
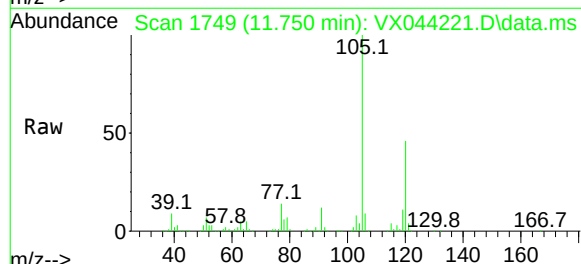
Acq: 11 Dec 2024 11:50

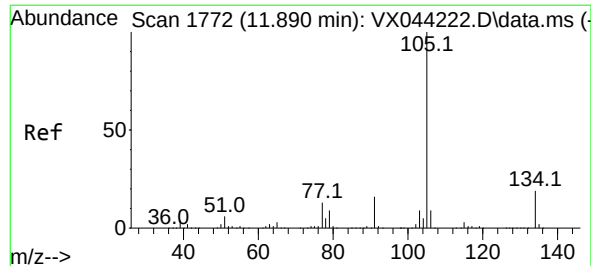
Tgt Ion:105 Resp: 125939

Ion Ratio Lower Upper

105 100

120 43.8 21.7 65.1





#85

sec-Butylbenzene

Concen: 20.165 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:105 Resp: 150795

Ion Ratio Lower Upper

105 100

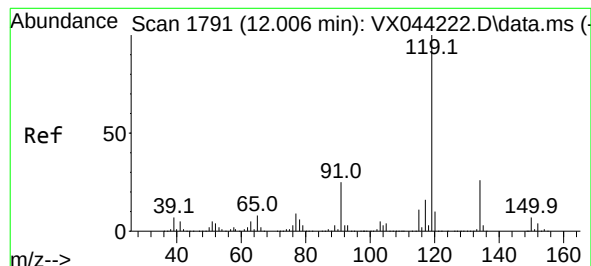
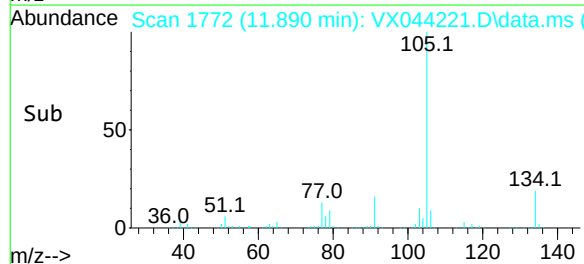
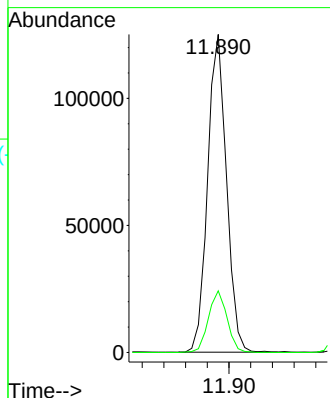
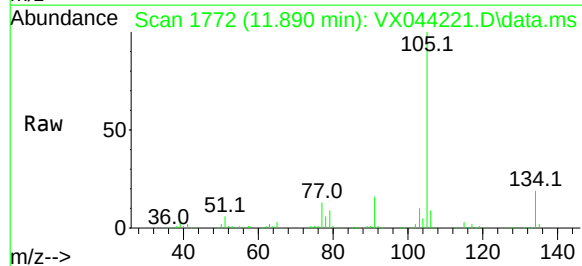
134 19.2 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#86

p-Isopropyltoluene

Concen: 20.532 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

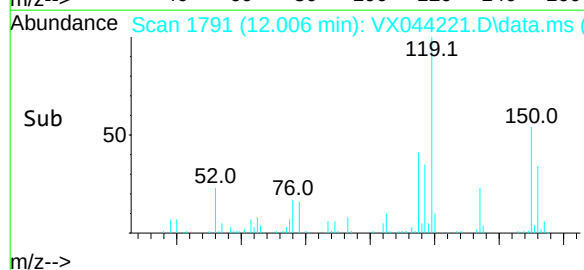
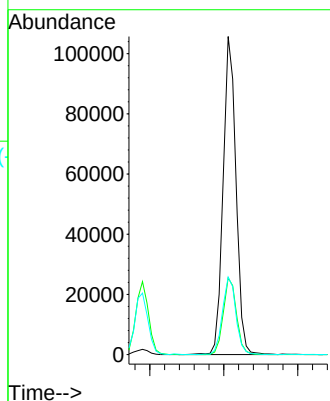
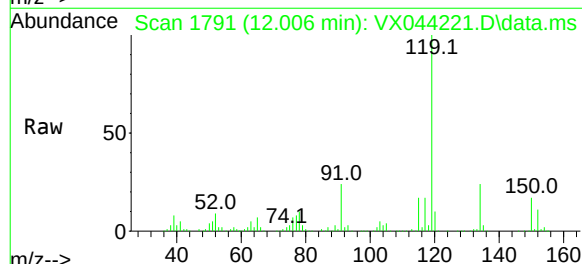
Tgt Ion:119 Resp: 127790

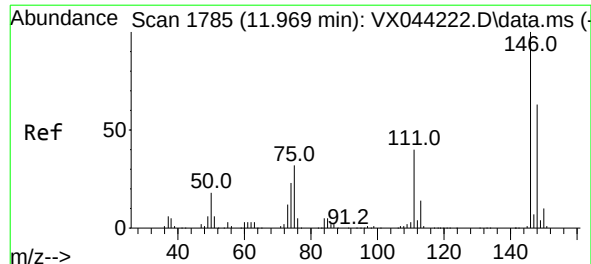
Ion Ratio Lower Upper

119 100

134 24.6 12.8 38.4

91 25.4 13.0 39.0





#87

1,3-Dichlorobenzene

Concen: 20.228 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

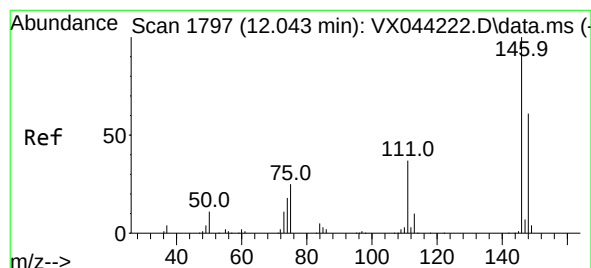
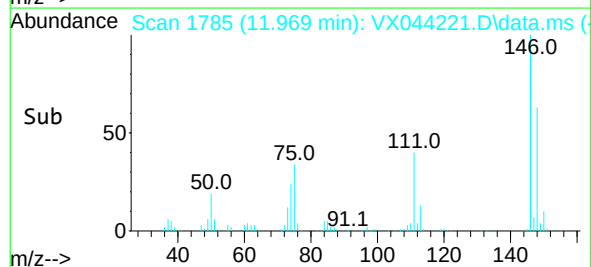
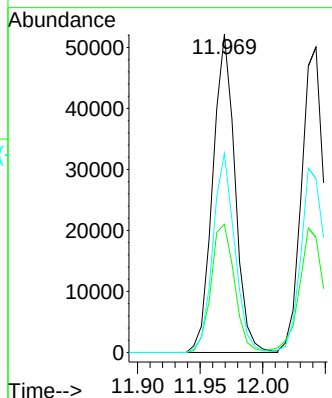
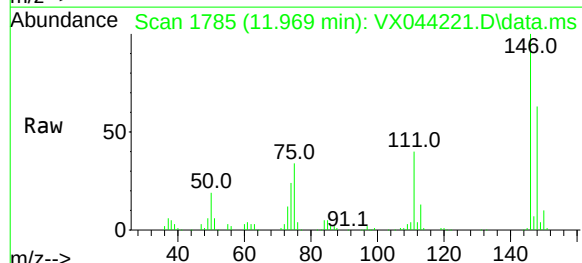
VSTDIC020

Tgt Ion:	146	Resp:	64399
Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.4	64.2
148	61.4	31.7	95.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#88

1,4-Dichlorobenzene

Concen: 19.588 ug/l

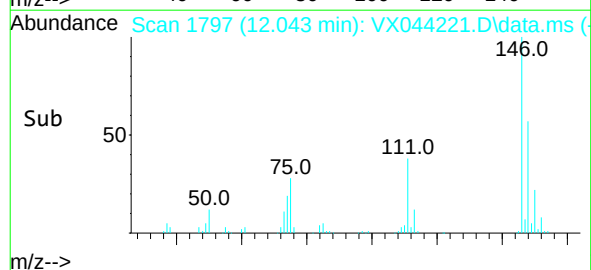
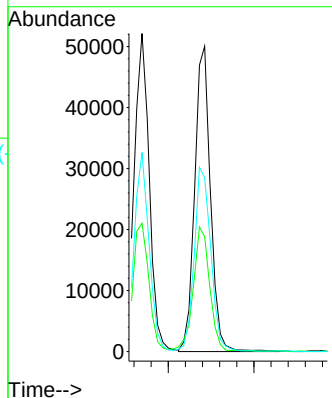
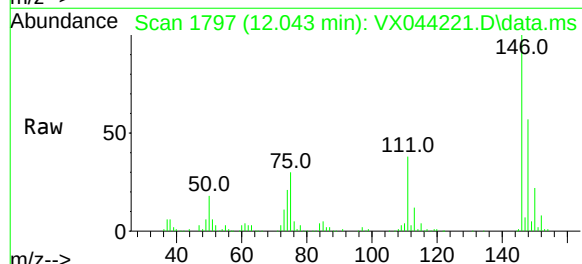
RT: 12.043 min Scan# 1797

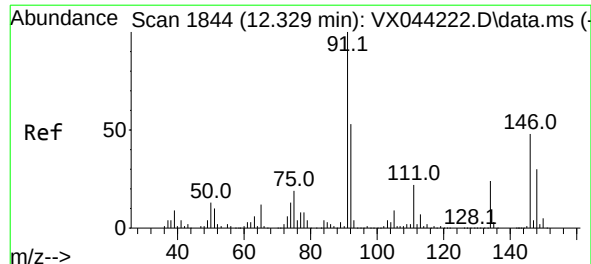
Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Tgt Ion:	146	Resp:	64106
Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.0	63.0
148	63.2	32.3	96.8





#89

n-Butylbenzene

Concen: 19.950 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 104410

Ion Ratio Lower Upper

91 100

92 52.4 26.6 79.7

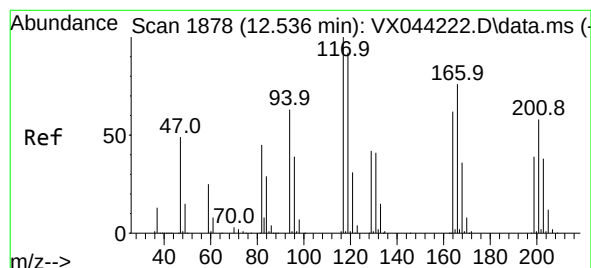
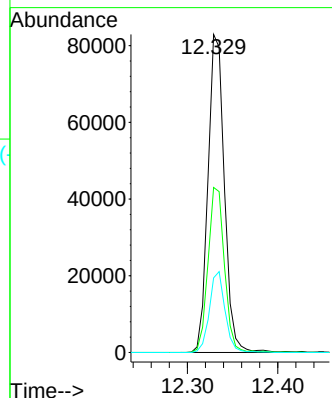
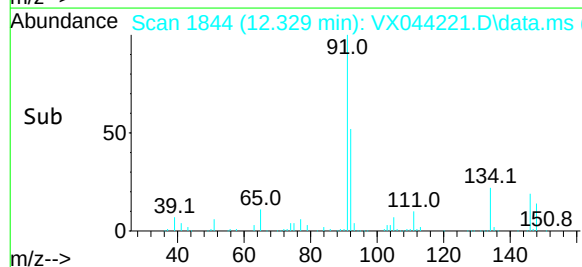
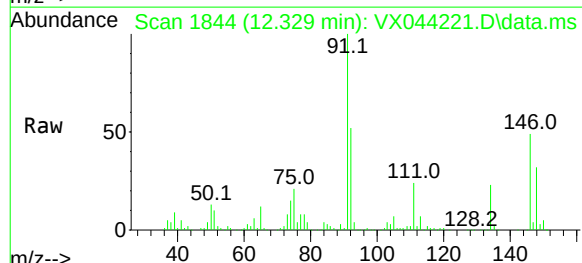
134 24.4 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#90

Hexachloroethane

Concen: 17.543 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX044221.D

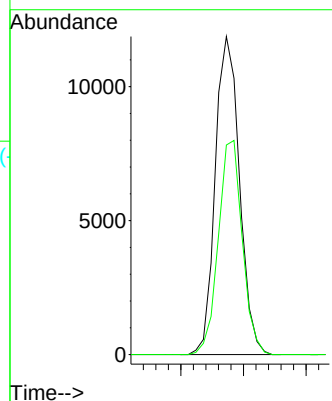
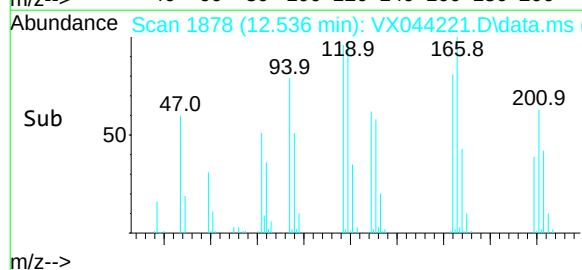
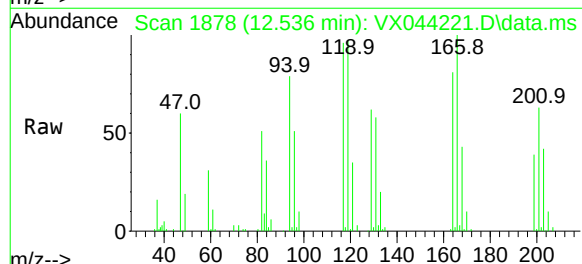
Acq: 11 Dec 2024 11:50

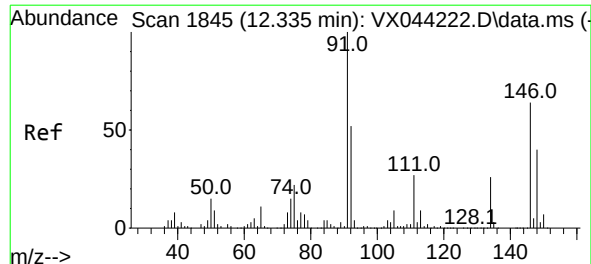
Tgt Ion:117 Resp: 15939

Ion Ratio Lower Upper

117 100

201 66.8 31.4 94.2





#91

1,2-Dichlorobenzene

Concen: 19.817 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

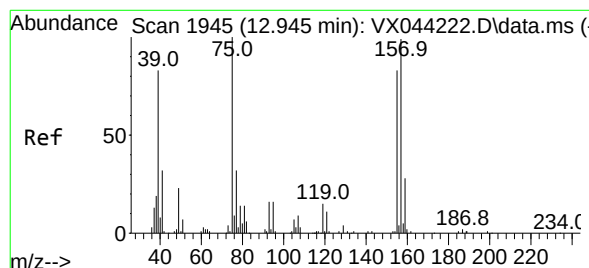
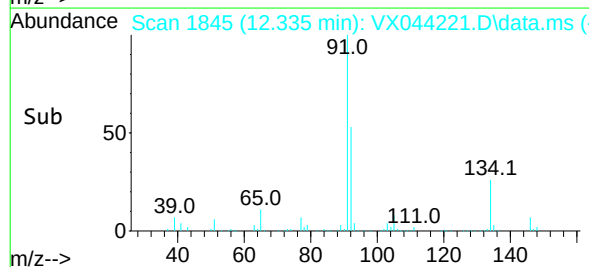
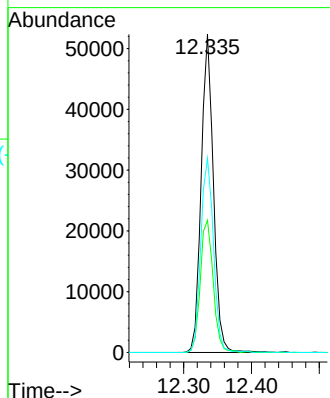
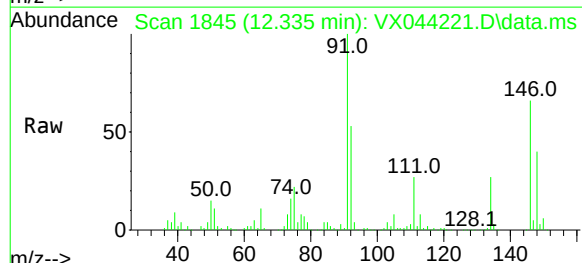
VSTDICC020

Tgt Ion:	146	Resp:	65511
Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.4	64.3
148	63.5	31.6	95.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.683 ug/l

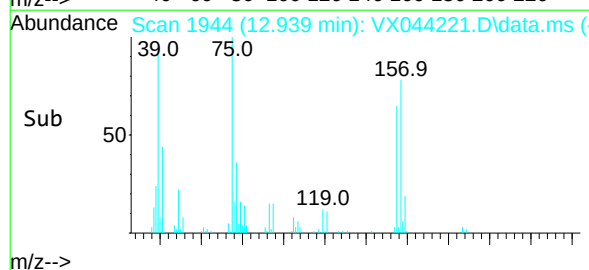
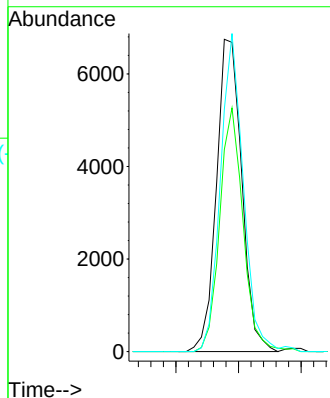
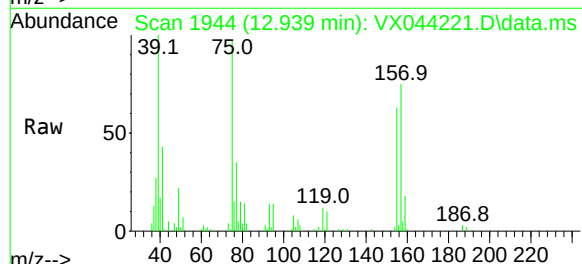
RT: 12.939 min Scan# 1944

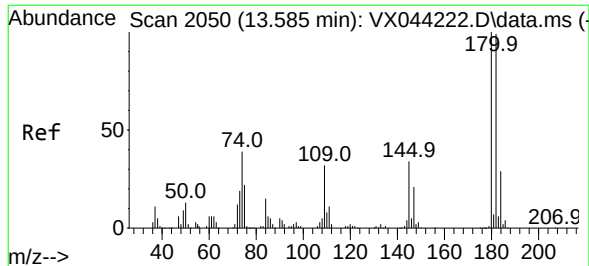
Delta R.T. -0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Tgt Ion:	75	Resp:	9468
Ion	Ratio	Lower	Upper
75	100		
155	72.1	38.1	114.3
157	92.2	47.2	141.6





#93

1,2,4-Trichlorobenzene

Concen: 19.313 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

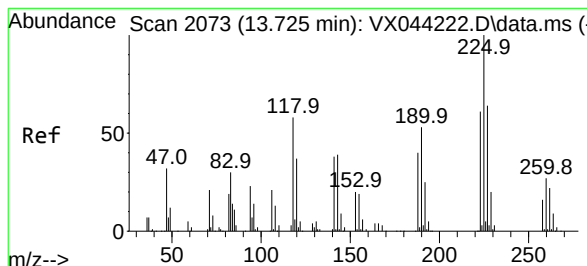
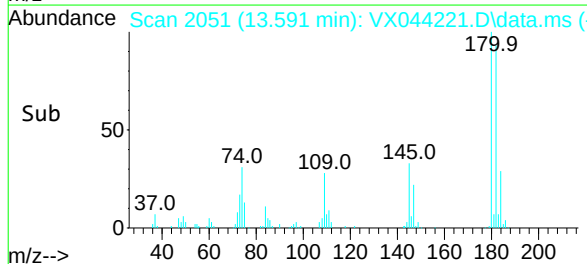
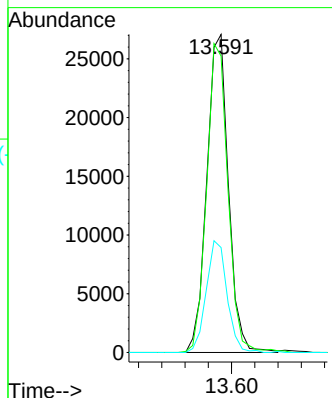
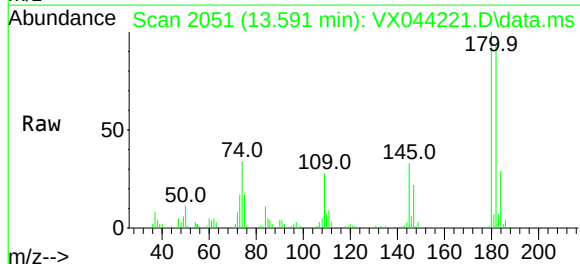
ClientSampleId :

VSTDIC020

Tgt Ion:	180	Resp:	35001
Ion Ratio	Lower	Upper	
180	100		
182	95.7	48.0	144.2
145	33.9	16.6	49.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#94

Hexachlorobutadiene

Concen: 19.774 ug/l

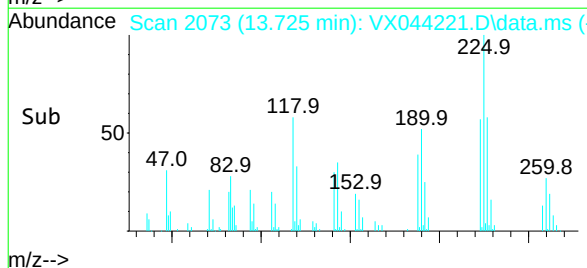
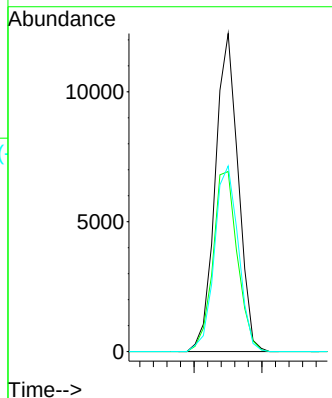
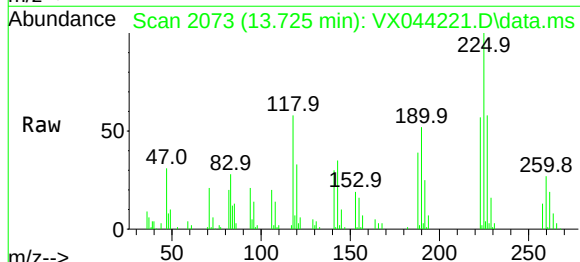
RT: 13.725 min Scan# 2073

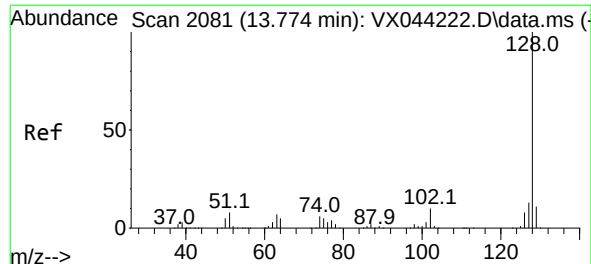
Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Tgt Ion:	225	Resp:	14415
Ion Ratio	Lower	Upper	
225	100		
223	60.5	30.8	92.4
227	60.9	32.1	96.3





#95

Naphthalene

Concen: 20.146 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:128 Resp: 142515

Ion Ratio Lower Upper

128 100

127 12.8 10.5 15.7

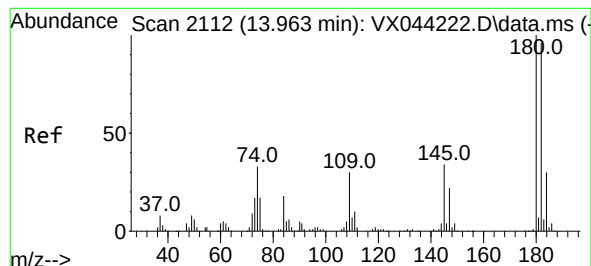
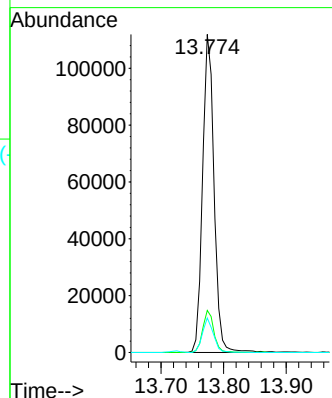
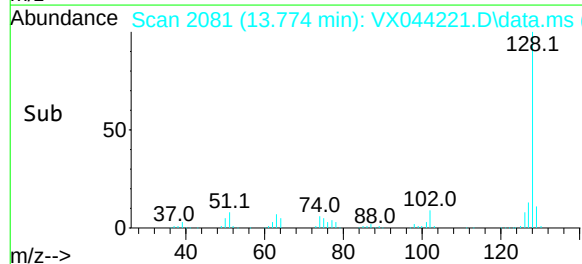
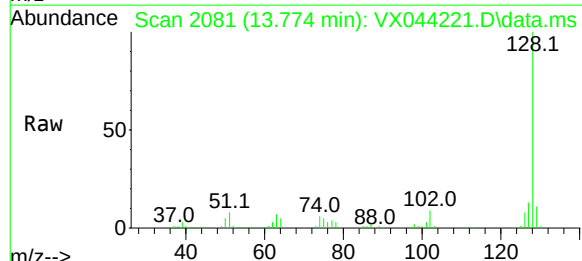
129 10.4 9.0 13.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#96

1,2,3-Trichlorobenzene

Concen: 20.101 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

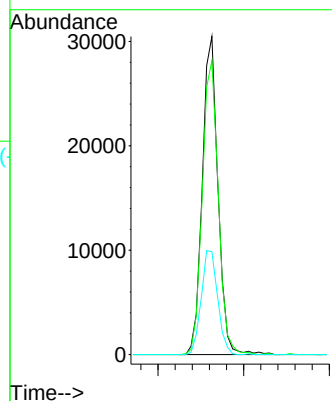
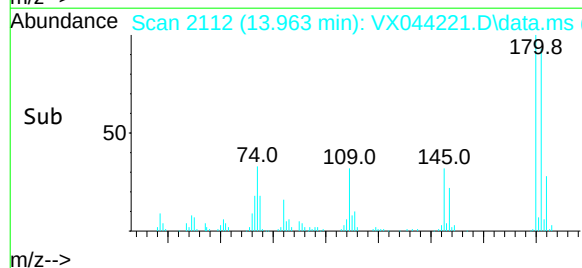
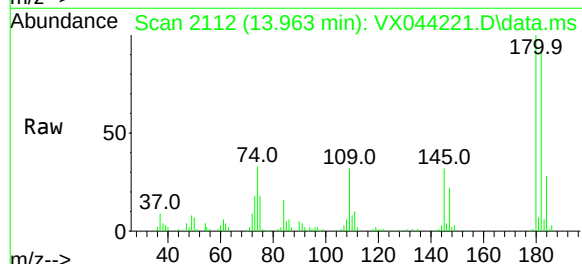
Tgt Ion:180 Resp: 38639

Ion Ratio Lower Upper

180 100

182 94.7 48.0 144.0

145 34.3 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044222.D
 Acq On : 11 Dec 2024 12:14
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Quant Time: Dec 12 04:15:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:11:59 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
 Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	125713	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	233488	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	205196	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	95227	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	115815	52.544	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.080%			
35) Dibromofluoromethane	5.385	113	85656	52.968	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.940%			
50) Toluene-d8	8.647	98	292199	53.559	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.120%			
62) 4-Bromofluorobenzene	11.079	95	103178	54.123	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.240%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	99052	50.957	ug/l	100
3) Chloromethane	1.295	50	94981	51.097	ug/l	100
4) Vinyl Chloride	1.374	62	98852	51.045	ug/l	100
5) Bromomethane	1.593	94	69250	50.405	ug/l	100
6) Chloroethane	1.666	64	66862	55.448	ug/l	100
7) Trichlorofluoromethane	1.868	101	193676	51.086	ug/l	100
8) Diethyl Ether	2.136	74	64542	49.875	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	77275	50.371	ug/l	100
10) Methyl Iodide	2.441	142	106509	52.678	ug/l	100
11) Tert butyl alcohol	2.995	59	75690m	244.039	ug/l	
12) 1,1-Dichloroethene	2.307	96	74884	53.143	ug/l	100
13) Acrolein	2.239	56	116171	258.347	ug/l	100
14) Allyl chloride	2.654	41	126925	54.079	ug/l	100
15) Acrylonitrile	3.069	53	225330	261.859	ug/l	100
16) Acetone	2.392	43	239661	266.704	ug/l	100
17) Carbon Disulfide	2.502	76	144624	53.994	ug/l	100
18) Methyl Acetate	2.709	43	119808	51.710	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	289735	52.691	ug/l	100
20) Methylene Chloride	2.782	84	86593	51.305	ug/l	100
21) trans-1,2-Dichloroethene	3.081	96	77834	51.974	ug/l	100
22) Diisopropyl ether	3.764	45	273039	51.662	ug/l	100
23) Vinyl Acetate	3.721	43	1202044	279.754	ug/l	100
24) 1,1-Dichloroethane	3.605	63	156412	53.093	ug/l	100
25) 2-Butanone	4.562	43	344663	269.797	ug/l	100
26) 2,2-Dichloropropane	4.465	77	131428	54.914	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	97013	51.007	ug/l	100
28) Bromochloromethane	4.898	49	74477	51.555	ug/l	100
29) Tetrahydrofuran	5.007	42	212103	258.669	ug/l	100
30) Chloroform	5.087	83	168864	51.017	ug/l	100
31) Cyclohexane	5.465	56	122841	51.637	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	147834	53.806	ug/l	100
36) 1,1-Dichloropropene	5.690	75	103760	49.638	ug/l	100
37) Ethyl Acetate	4.721	43	135753	52.537	ug/l	100
38) Carbon Tetrachloride	5.672	117	117076	52.023	ug/l	100
39) Methylcyclohexane	7.373	83	129697	51.901	ug/l	100
40) Benzene	6.031	78	329154	51.863	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044222.D
 Acq On : 11 Dec 2024 12:14
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Quant Time: Dec 12 04:15:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:11:59 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 12/12/2024
 Supervised By : Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	70427	51.329	ug/l	100
42) 1,2-Dichloroethane	6.086	62	136309	52.138	ug/l	100
43) Isopropyl Acetate	6.342	43	213891	52.961	ug/l	100
44) Trichloroethene	7.123	130	81542	51.521	ug/l	100
45) 1,2-Dichloropropane	7.428	63	83376	51.420	ug/l	100
46) Dibromomethane	7.580	93	66786	53.092	ug/l	100
47) Bromodichloromethane	7.824	83	118634	54.607	ug/l	100
48) Methyl methacrylate	7.696	41	103726	52.909	ug/l	100
49) 1,4-Dioxane	7.671	88	35263m	1052.498	ug/l	
51) 4-Methyl-2-Pentanone	8.574	43	688666	265.203	ug/l	100
52) Toluene	8.714	92	204738	51.370	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	120007	51.362	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	132286	55.923	ug/l	100
55) 1,1,2-Trichloroethane	9.153	97	83488	52.729	ug/l	100
56) Ethyl methacrylate	9.116	69	134770	53.917	ug/l	100
57) 1,3-Dichloropropane	9.305	76	143044	51.904	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	342592	271.745	ug/l	100
59) 2-Hexanone	9.433	43	512906	272.881	ug/l	100
60) Dibromochloromethane	9.519	129	86352	51.400	ug/l	100
61) 1,2-Dibromoethane	9.604	107	86150	53.454	ug/l	100
64) Tetrachloroethene	9.269	164	65888	48.379	ug/l	100
65) Chlorobenzene	10.080	112	223269	50.779	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	76867	54.396	ug/l	100
67) Ethyl Benzene	10.189	91	395430	52.050	ug/l	100
68) m/p-Xylenes	10.299	106	290181	104.094	ug/l	100
69) o-Xylene	10.640	106	144247	51.141	ug/l	100
70) Styrene	10.653	104	238379	52.719	ug/l	100
71) Bromoform	10.799	173	50667	51.158	ug/l #	100
73) Isopropylbenzene	10.957	105	372519	51.100	ug/l	100
74) N-amyl acetate	10.842	43	182491	54.166	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.213	83	127193	50.233	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	107003m	49.518	ug/l	
77) Bromobenzene	11.195	156	89687	50.734	ug/l	100
78) n-propylbenzene	11.305	91	428741	53.211	ug/l	100
79) 2-Chlorotoluene	11.360	91	263849	50.634	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	314986	52.102	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	35119	47.628	ug/l	100
82) 4-Chlorotoluene	11.451	91	296520	51.387	ug/l	100
83) tert-Butylbenzene	11.713	119	310320	51.940	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	313338	52.776	ug/l	100
85) sec-Butylbenzene	11.890	105	379552	52.329	ug/l	100
86) p-Isopropyltoluene	12.006	119	318721	52.796	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	160223	51.887	ug/l	100
88) 1,4-Dichlorobenzene	12.043	146	159258	50.171	ug/l	100
89) n-Butylbenzene	12.329	91	270840	53.354	ug/l	100
90) Hexachloroethane	12.536	117	48303	54.813	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	164342	51.256	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.945	75	26027	52.951	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	93173	53.005	ug/l	100
94) Hexachlorobutadiene	13.725	225	35172	49.744	ug/l	100
95) Naphthalene	13.774	128	365234	53.230	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	97000	52.027	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044222.D
Acq On : 11 Dec 2024 12:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

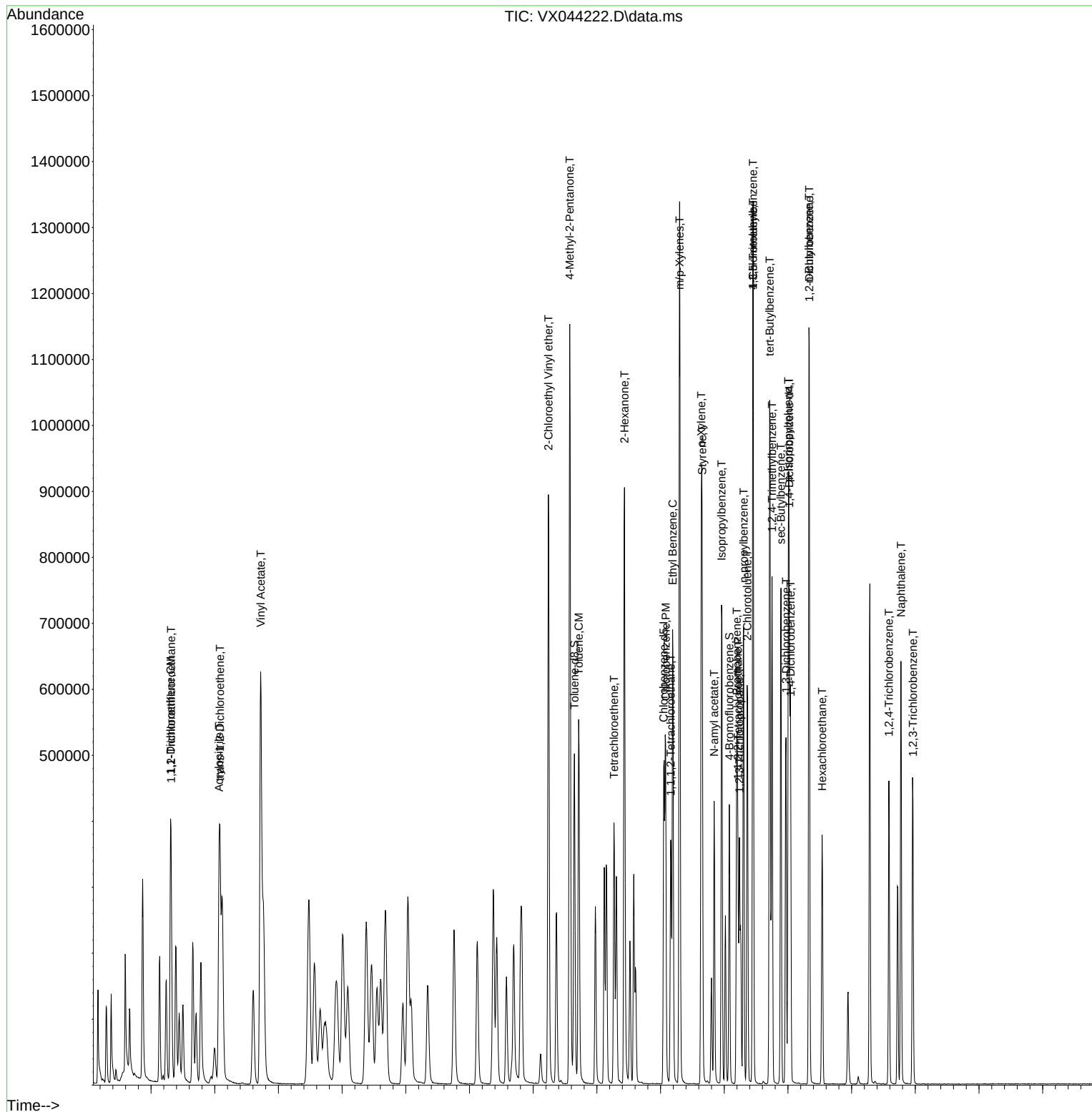
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044222.D
Acq On : 11 Dec 2024 12:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

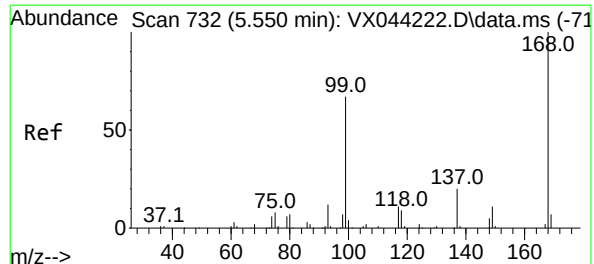
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Dec 12 04:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.550 min Scan# 73

Delta R.T. -0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:168 Resp: 125713

Ion Ratio Lower Upper

168 100

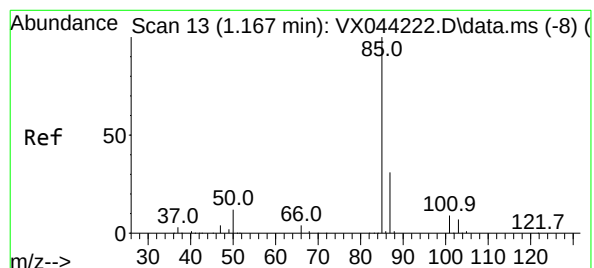
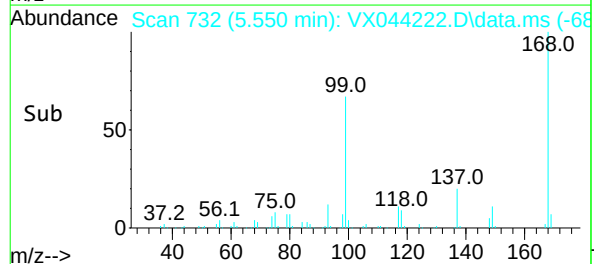
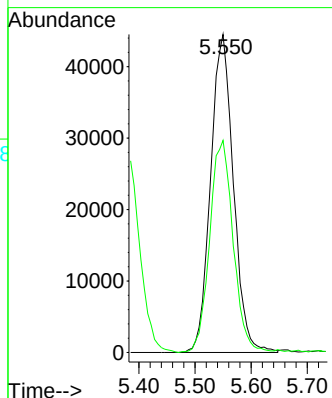
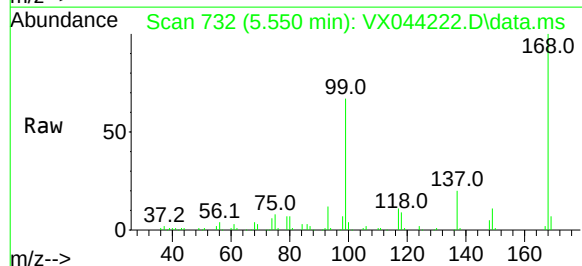
99 66.7 53.4 80.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#2

Dichlorodifluoromethane

Concen: 50.957 ug/l

RT: 1.167 min Scan# 13

Delta R.T. 0.000 min

Lab File: VX044222.D

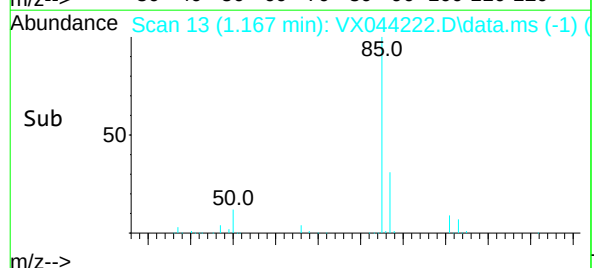
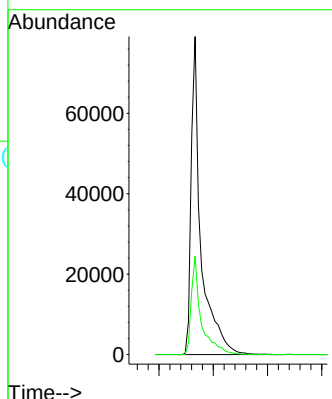
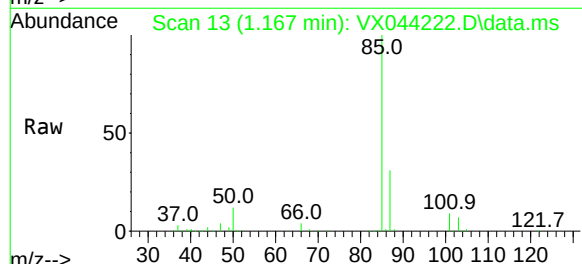
Acq: 11 Dec 2024 12:14

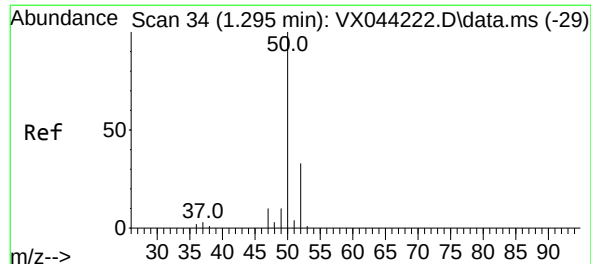
Tgt Ion: 85 Resp: 99052

Ion Ratio Lower Upper

85 100

87 30.9 15.4 46.4





#3

Chloromethane

Concen: 51.097 ug/l

RT: 1.295 min Scan# 34

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 50 Resp: 94981

Ion Ratio Lower Upper

50 100

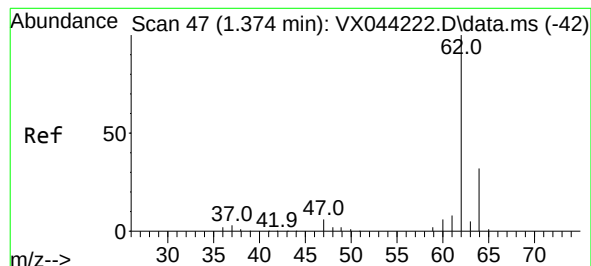
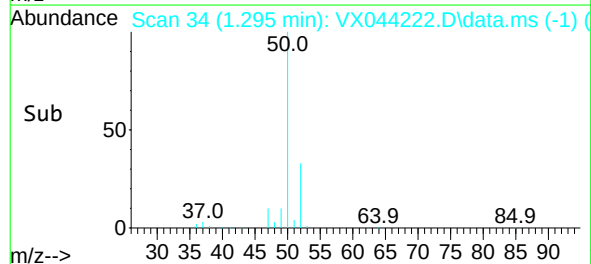
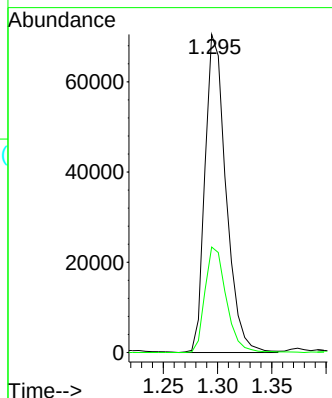
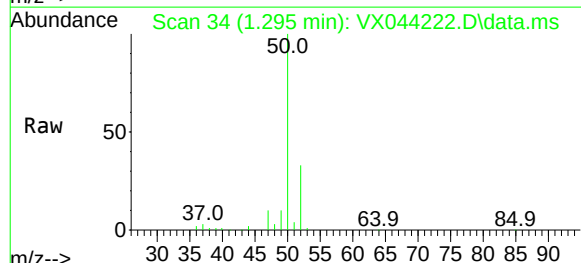
52 33.1 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#4

Vinyl Chloride

Concen: 51.045 ug/l

RT: 1.374 min Scan# 47

Delta R.T. 0.000 min

Lab File: VX044222.D

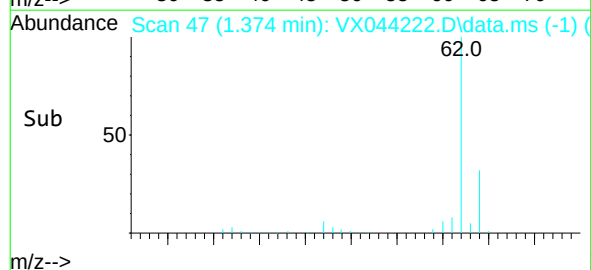
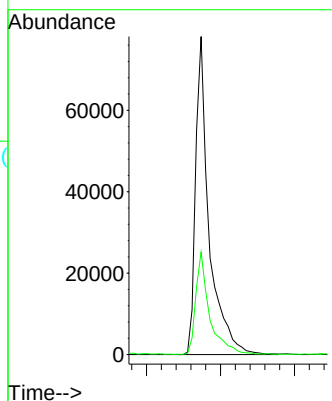
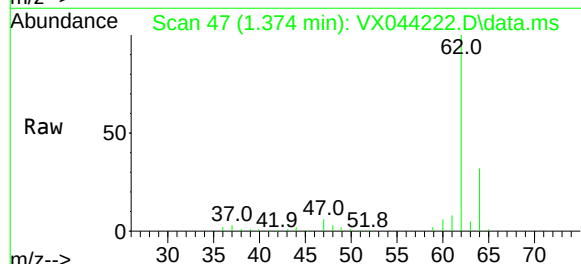
Acq: 11 Dec 2024 12:14

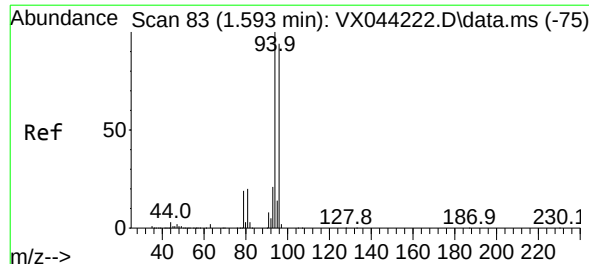
Tgt Ion: 62 Resp: 98852

Ion Ratio Lower Upper

62 100

64 32.1 25.7 38.5





#5

Bromomethane

Concen: 50.405 ug/l

RT: 1.593 min Scan# 83

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 94 Resp: 69250

Ion Ratio Lower Upper

94 100

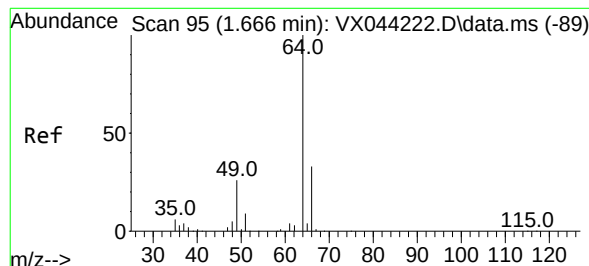
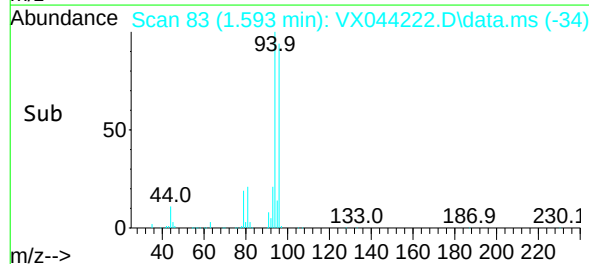
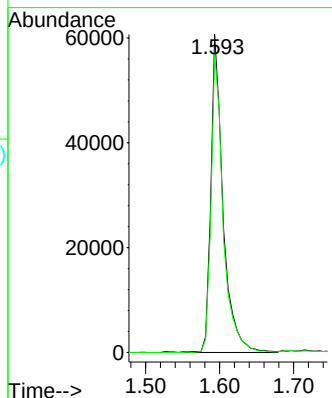
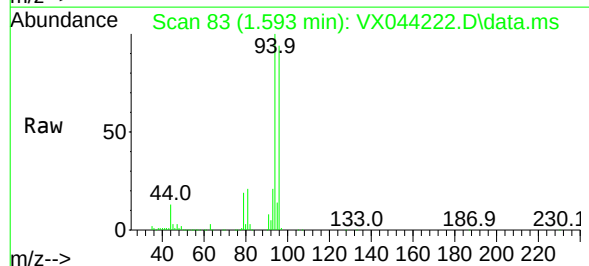
96 93.6 74.9 112.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#6

Chloroethane

Concen: 55.448 ug/l

RT: 1.666 min Scan# 95

Delta R.T. 0.000 min

Lab File: VX044222.D

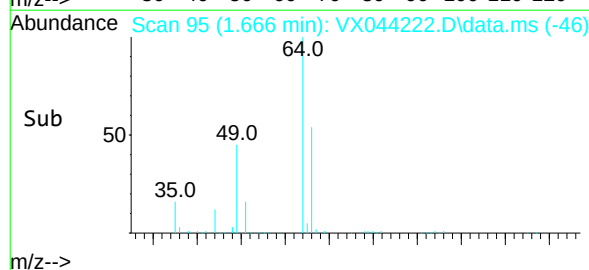
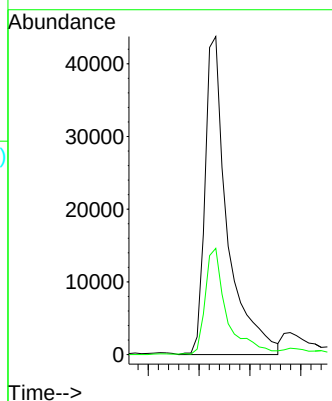
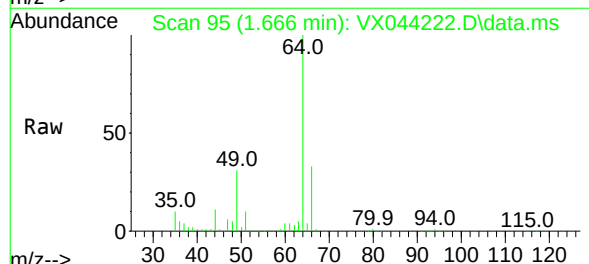
Acq: 11 Dec 2024 12:14

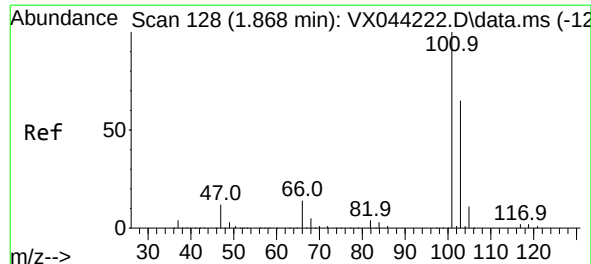
Tgt Ion: 64 Resp: 66862

Ion Ratio Lower Upper

64 100

66 33.2 26.6 39.8





#7

Trichlorofluoromethane

Concen: 51.086 ug/l

RT: 1.868 min Scan# 12

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:101 Resp: 193676

Ion Ratio Lower Upper

101 100

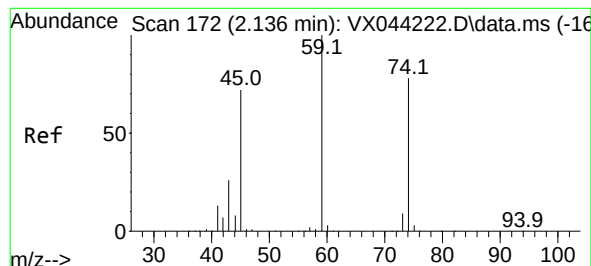
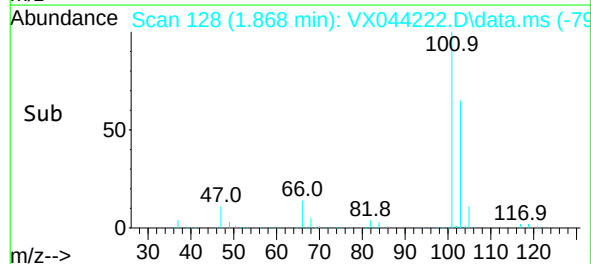
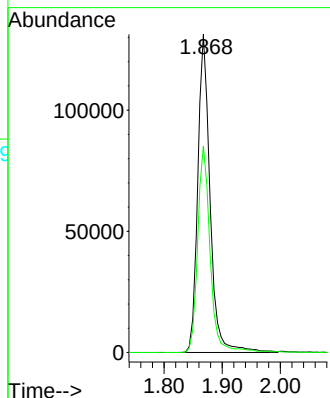
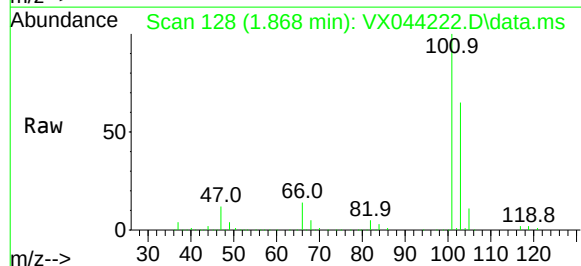
103 64.8 51.8 77.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#8

Diethyl Ether

Concen: 49.875 ug/l

RT: 2.136 min Scan# 172

Delta R.T. 0.000 min

Lab File: VX044222.D

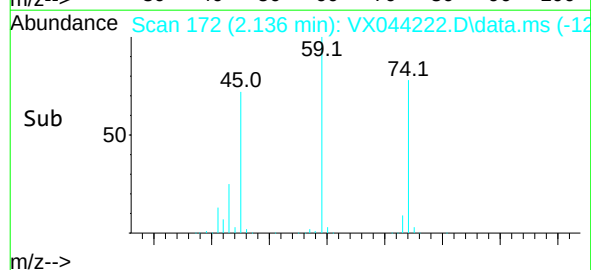
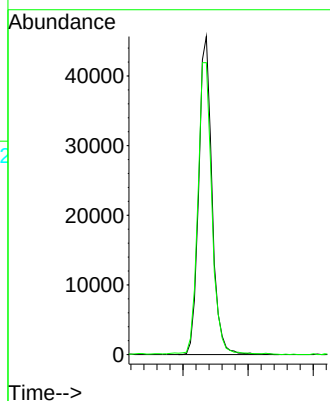
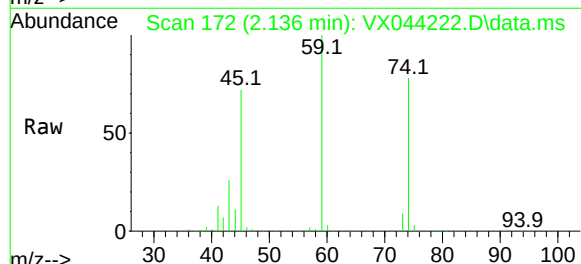
Acq: 11 Dec 2024 12:14

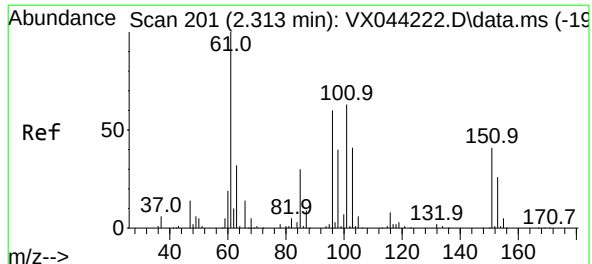
Tgt Ion: 74 Resp: 64542

Ion Ratio Lower Upper

74 100

45 96.7 48.4 145.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.371 ug/l

RT: 2.313 min Scan# 201

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

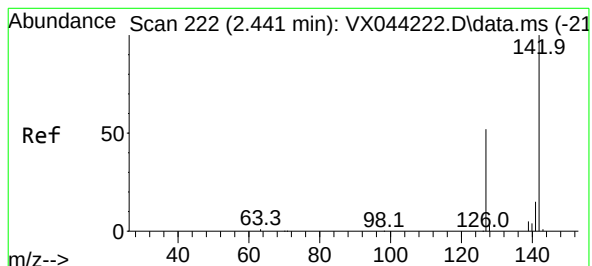
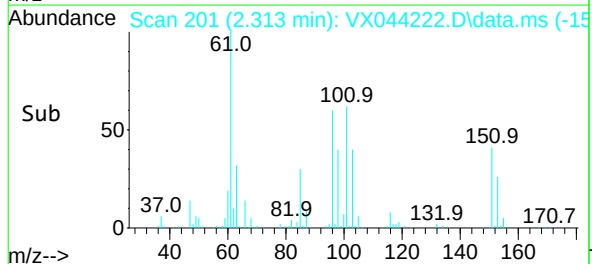
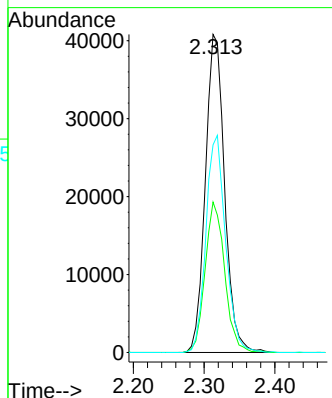
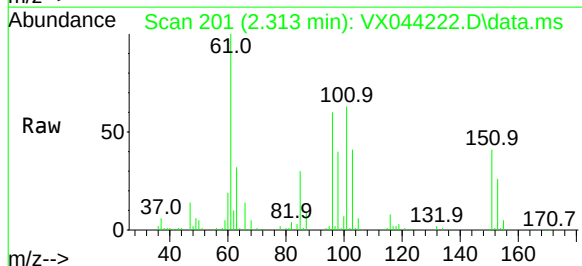
VSTDICCC050

Tgt Ion:	101	Resp:	77275
Ion	Ratio	Lower	Upper
101	100		
85	48.1	38.5	57.7
151	69.7	55.8	83.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#10

Methyl Iodide

Concen: 52.678 ug/l

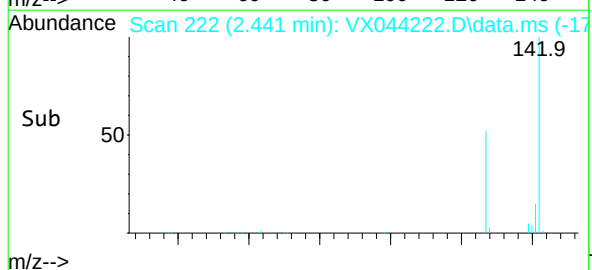
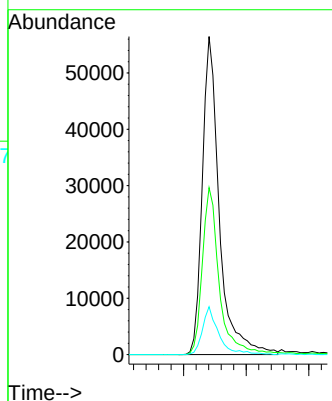
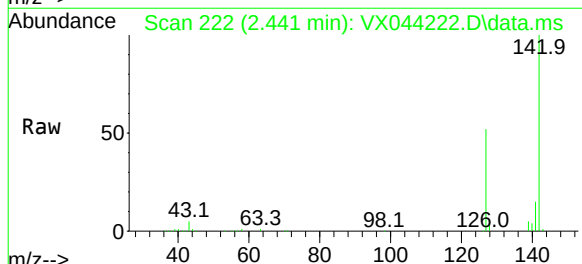
RT: 2.441 min Scan# 222

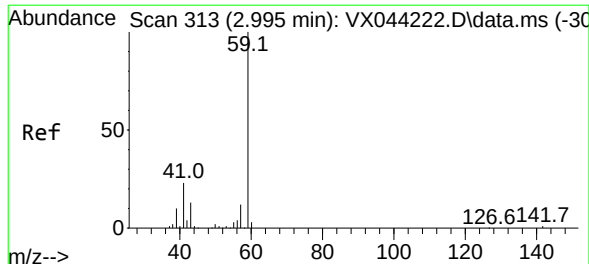
Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Tgt Ion:	142	Resp:	106509
Ion	Ratio	Lower	Upper
142	100		
127	52.3	41.8	62.8
141	14.4	11.5	17.3





#11

Tert butyl alcohol

Concen: 244.039 ug/l m

RT: 2.995 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 75690

Ion Ratio Lower Upper

59 100

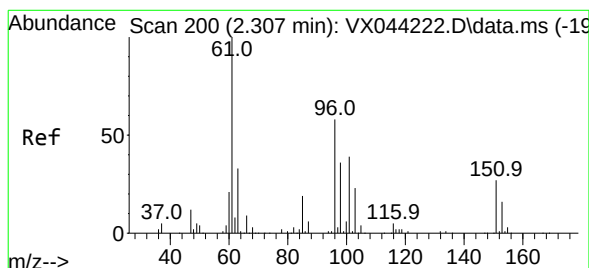
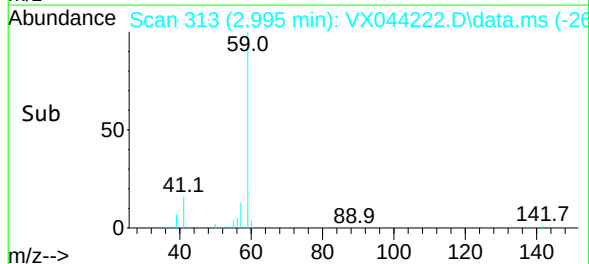
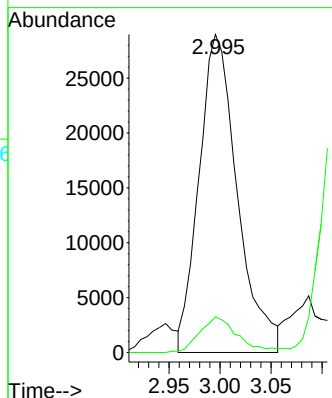
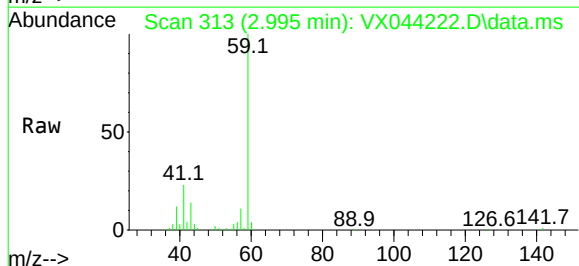
57 11.0 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#12

1,1-Dichloroethene

Concen: 53.143 ug/l

RT: 2.307 min Scan# 200

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

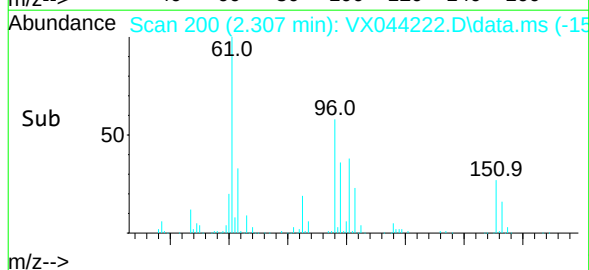
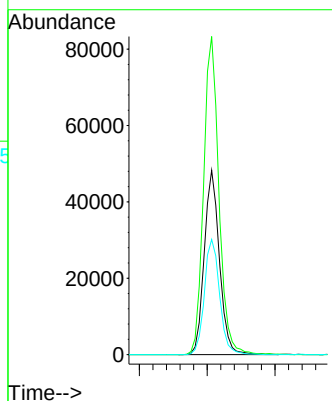
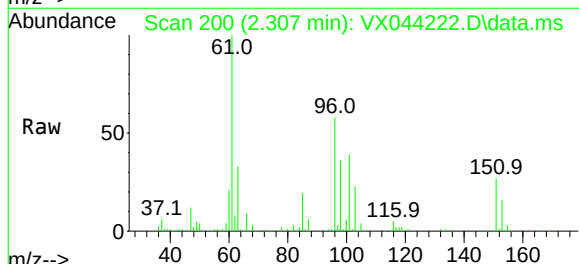
Tgt Ion: 96 Resp: 74884

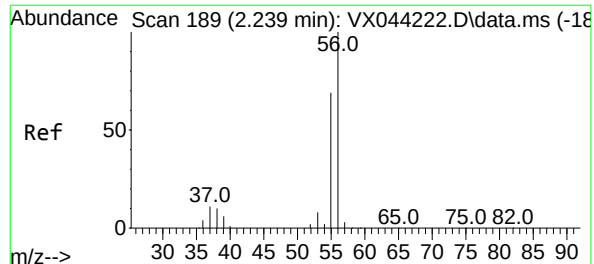
Ion Ratio Lower Upper

96 100

61 172.5 138.0 207.0

98 62.5 50.0 75.0





#13

Acrolein

Concen: 258.347 ug/l

RT: 2.239 min Scan# 18

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 116171

Ion Ratio Lower Upper

56 100

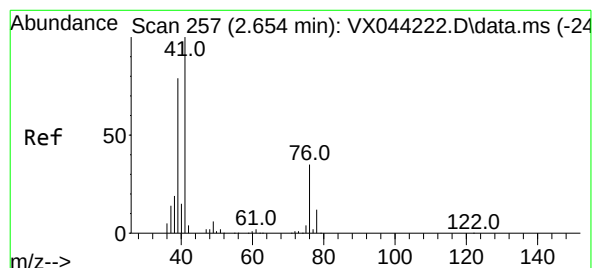
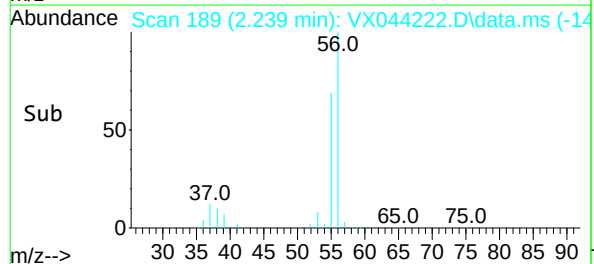
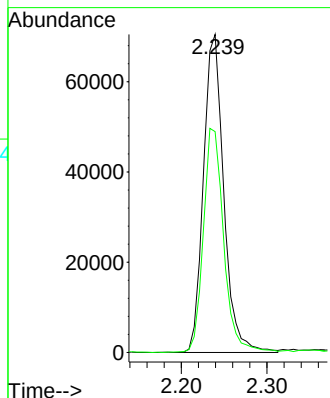
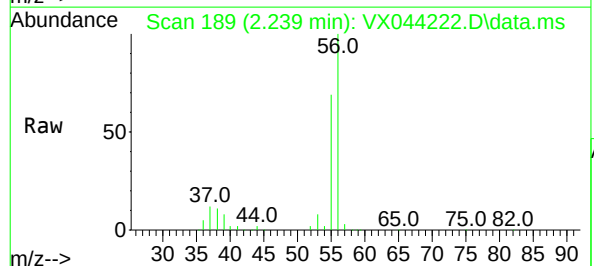
55 70.7 56.6 84.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#14

Allyl chloride

Concen: 54.079 ug/l

RT: 2.654 min Scan# 257

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

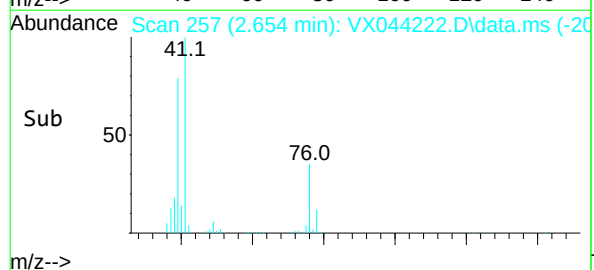
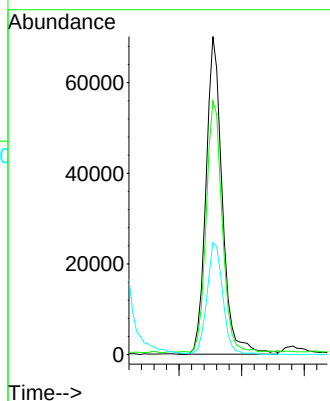
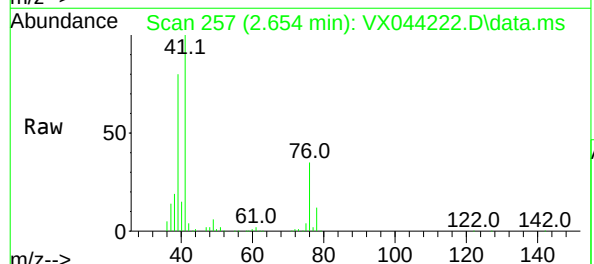
Tgt Ion: 41 Resp: 126925

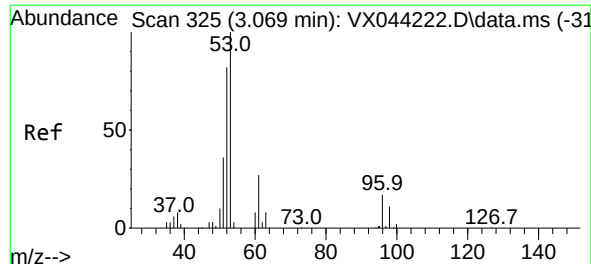
Ion Ratio Lower Upper

41 100

39 77.4 61.9 92.9

76 34.3 27.4 41.2





#15

Acrylonitrile

Concen: 261.859 ug/l

RT: 3.069 min Scan# 325

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

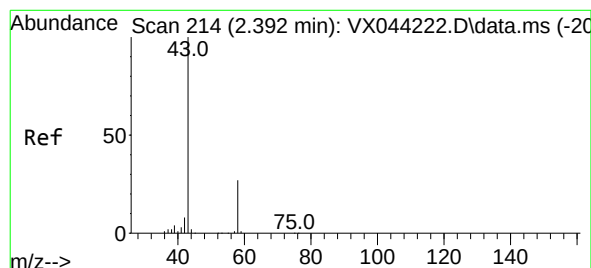
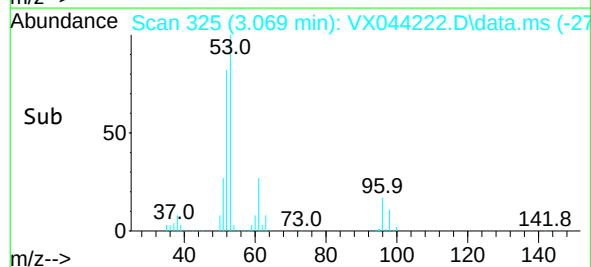
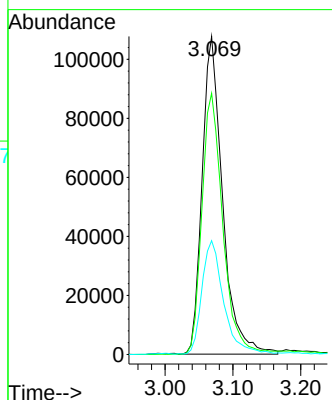
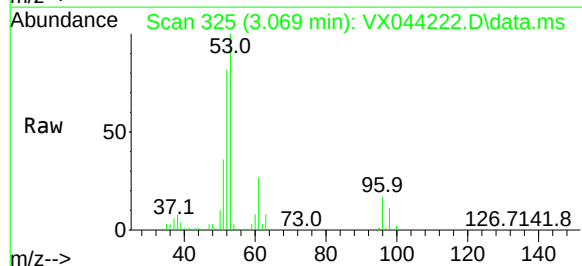
ClientSampleId :

VSTDICCC050

Tgt Ion:	53	Resp:	225336
Ion	Ratio	Lower	Upper
53	100		
52	84.2	67.4	101.0
51	37.9	30.3	45.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#16

Acetone

Concen: 266.704 ug/l

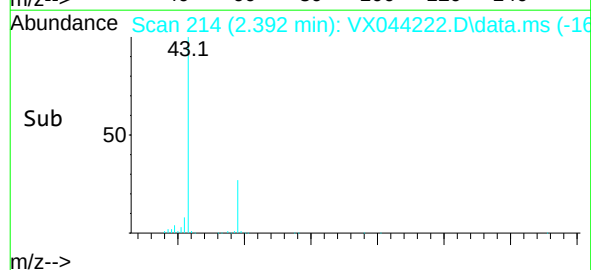
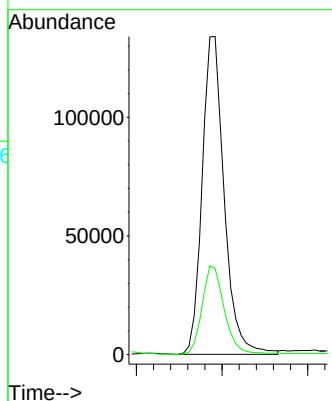
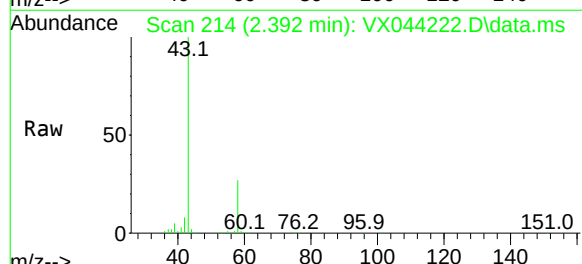
RT: 2.392 min Scan# 214

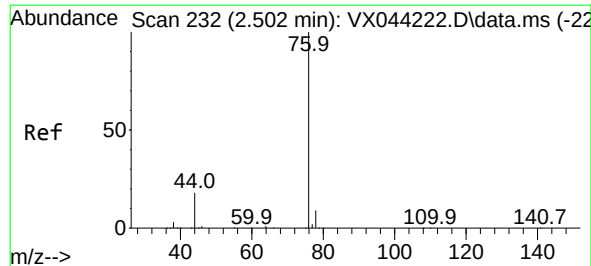
Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Tgt Ion:	43	Resp:	239661
Ion	Ratio	Lower	Upper
43	100		
58	27.0	21.6	32.4





#17

Carbon Disulfide

Concen: 53.994 ug/l

RT: 2.502 min Scan# 232

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 144624

Ion Ratio Lower Upper

76 100

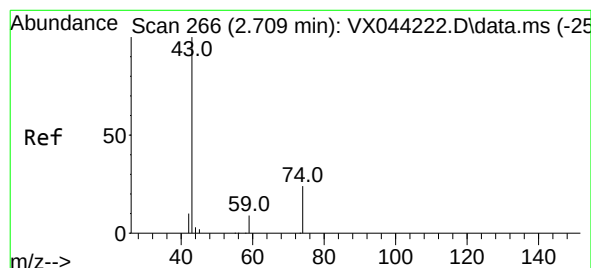
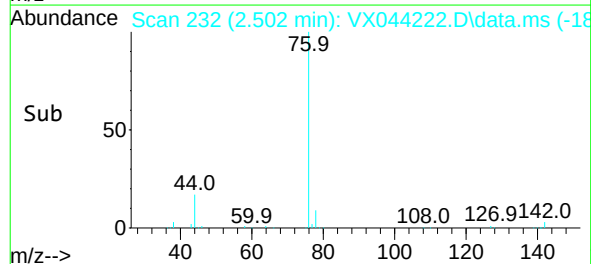
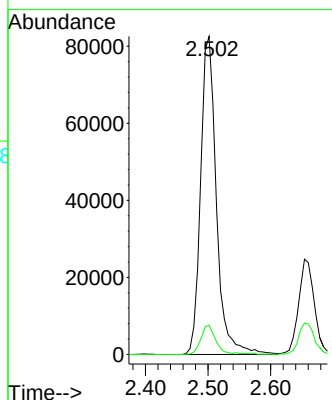
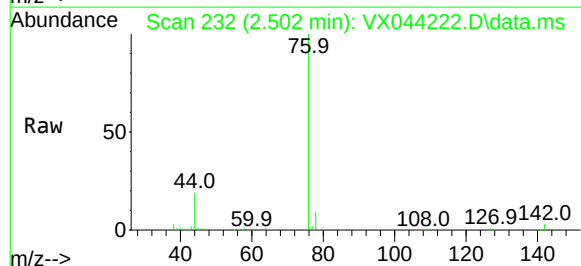
78 9.2 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#18

Methyl Acetate

Concen: 51.710 ug/l

RT: 2.709 min Scan# 266

Delta R.T. 0.000 min

Lab File: VX044222.D

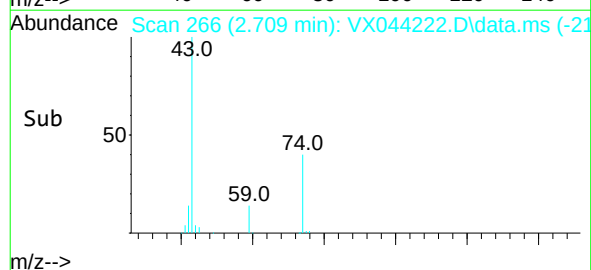
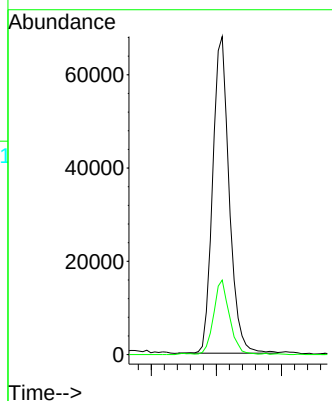
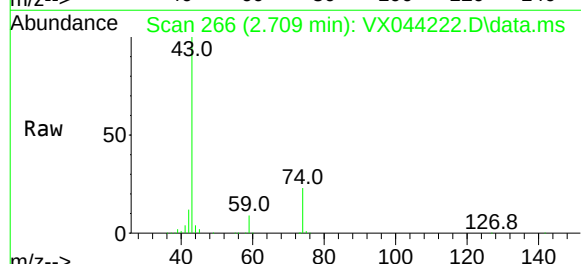
Acq: 11 Dec 2024 12:14

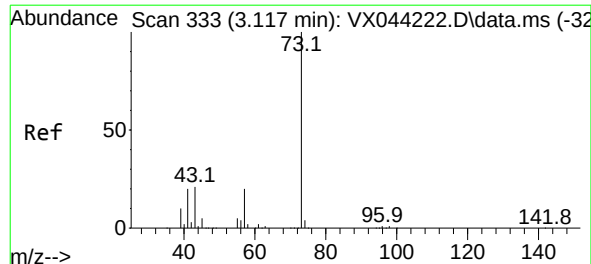
Tgt Ion: 43 Resp: 119808

Ion Ratio Lower Upper

43 100

74 22.1 17.7 26.5





#19

Methyl tert-butyl Ether

Concen: 52.691 ug/l

RT: 3.117 min Scan# 333

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 289735

Ion Ratio Lower Upper

73 100

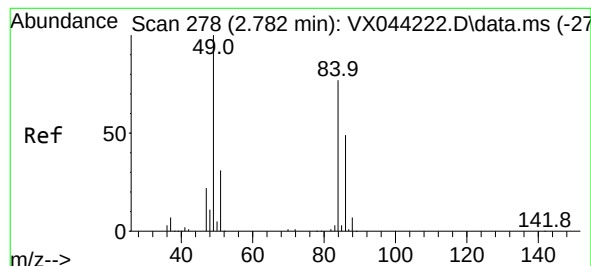
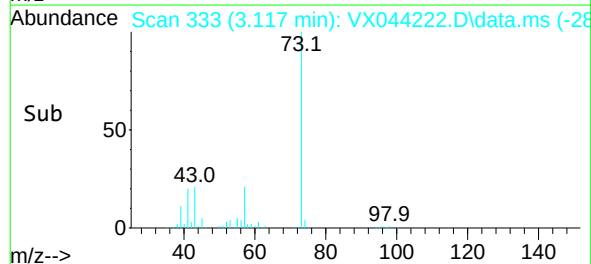
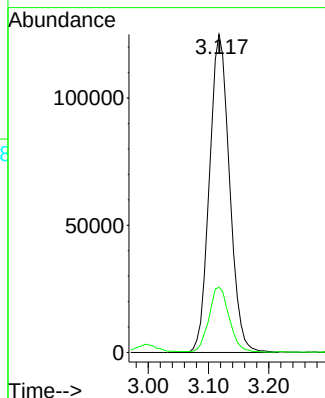
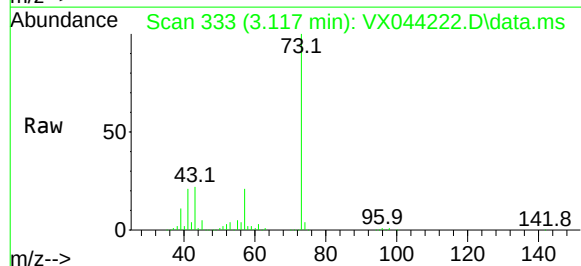
57 20.3 16.2 24.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#20

Methylene Chloride

Concen: 51.305 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Tgt Ion: 84 Resp: 86593

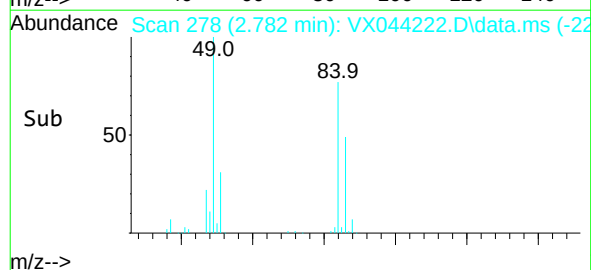
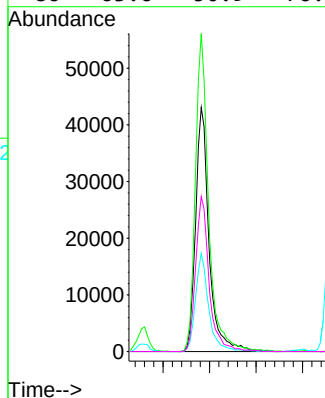
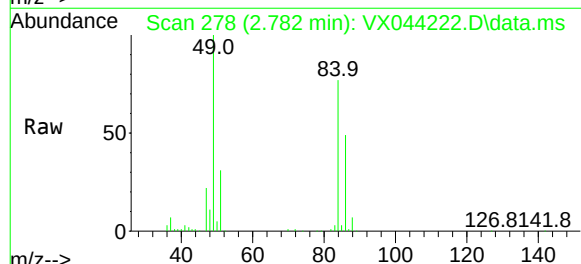
Ion Ratio Lower Upper

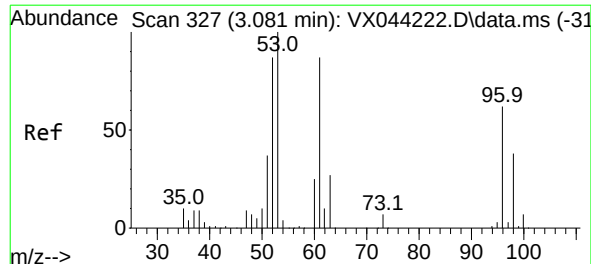
84 100

49 130.3 104.2 156.4

51 40.3 32.2 48.4

86 63.6 50.9 76.3





#21

trans-1,2-Dichloroethene

Concen: 51.974 ug/l

RT: 3.081 min Scan# 327

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 77834

Ion Ratio Lower Upper

96 100

61 140.0 112.0 168.0

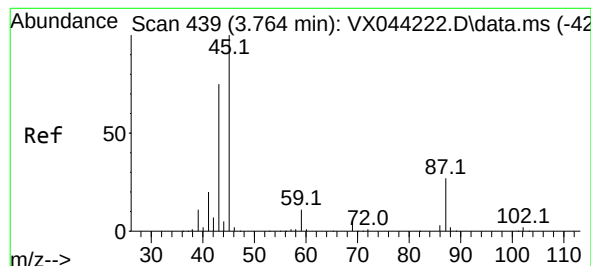
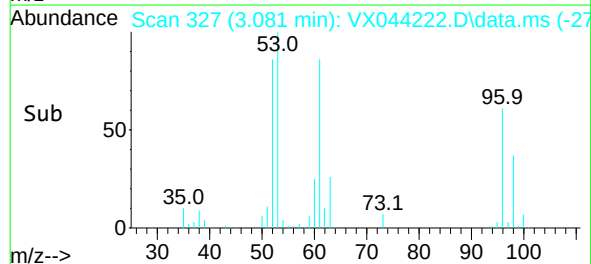
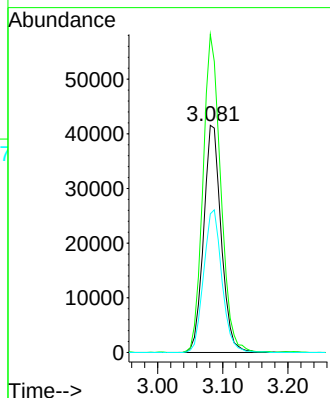
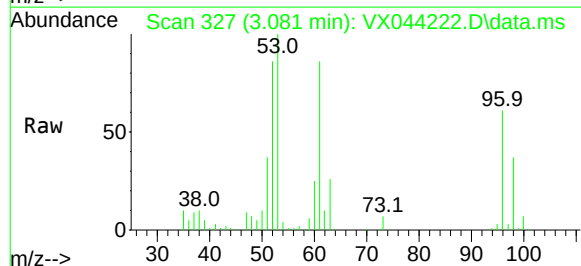
98 61.0 48.8 73.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#22

Diisopropyl ether

Concen: 51.662 ug/l

RT: 3.764 min Scan# 439

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Tgt Ion: 45 Resp: 273039

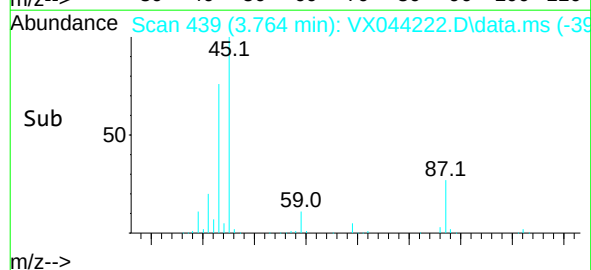
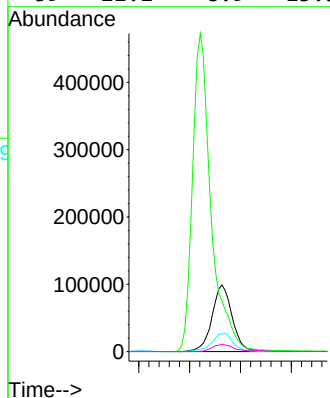
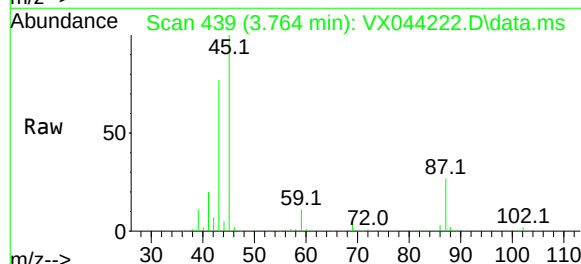
Ion Ratio Lower Upper

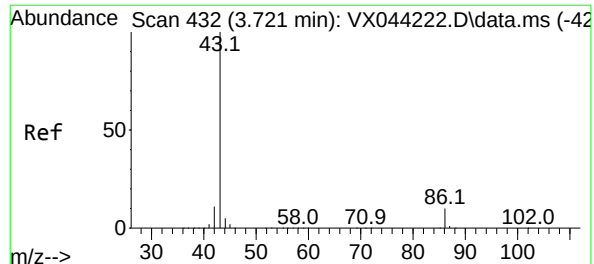
45 100

43 75.2 60.2 90.2

87 26.5 21.2 31.8

59 11.1 8.9 13.3





#23

Vinyl Acetate

Concen: 279.754 ug/l

RT: 3.721 min Scan# 43

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 1202044

Ion Ratio Lower Upper

43 100

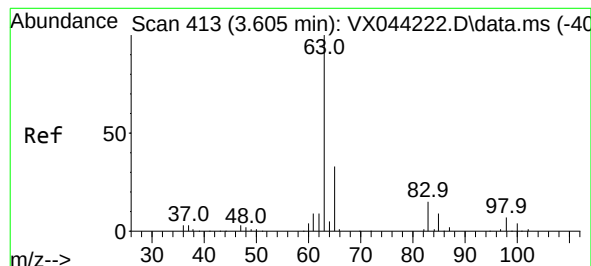
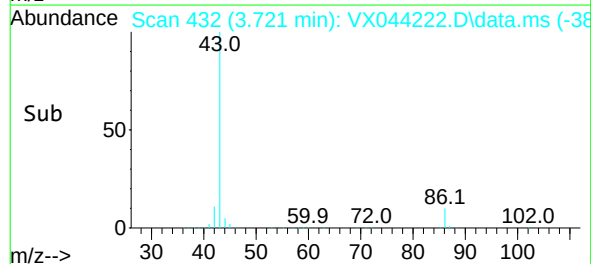
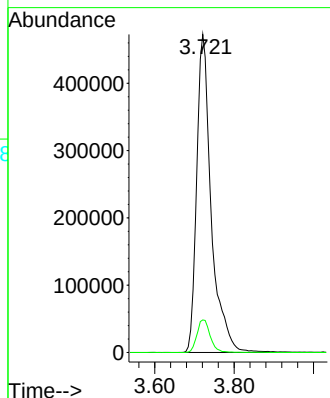
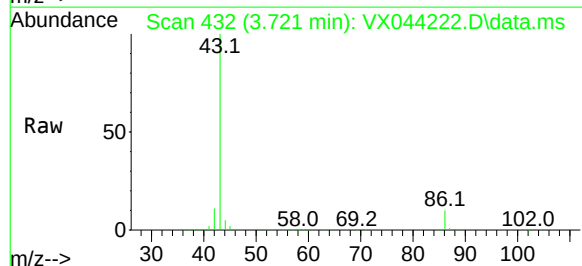
86 10.2 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#24

1,1-Dichloroethane

Concen: 53.093 ug/l

RT: 3.605 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

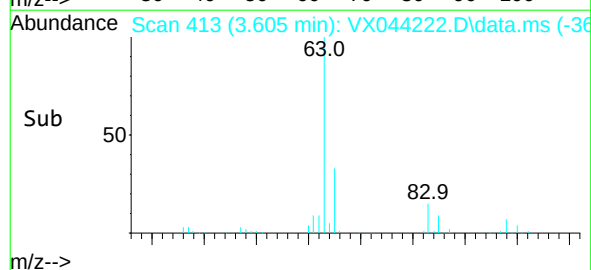
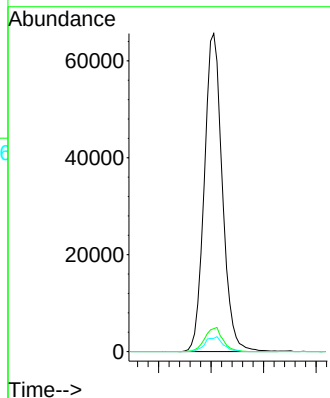
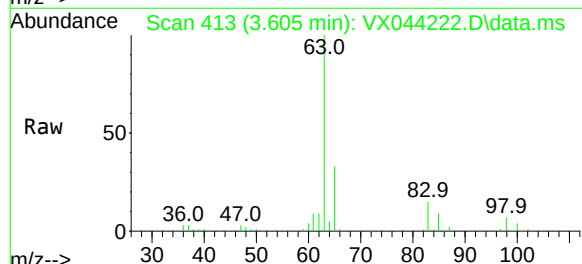
Tgt Ion: 63 Resp: 156412

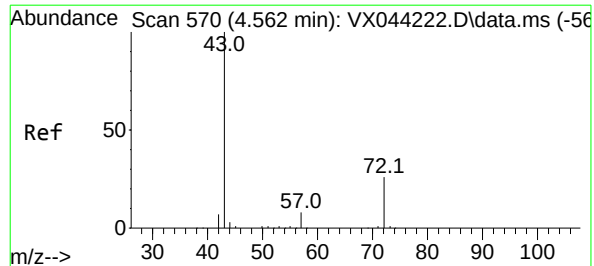
Ion Ratio Lower Upper

63 100

98 7.2 3.6 10.8

100 4.2 2.1 6.3





#25

2-Butanone

Concen: 269.797 ug/l

RT: 4.562 min Scan# 570

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 344663

Ion Ratio Lower Upper

43 100

72 25.3 20.2 30.4

Instrument :

MSVOA_X

ClientSampleId :

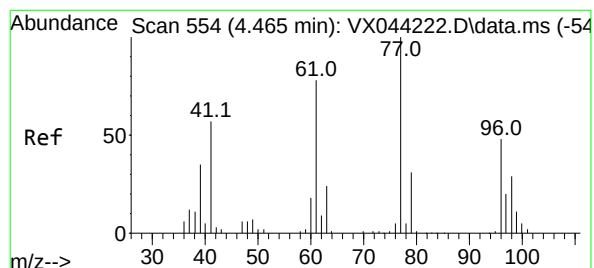
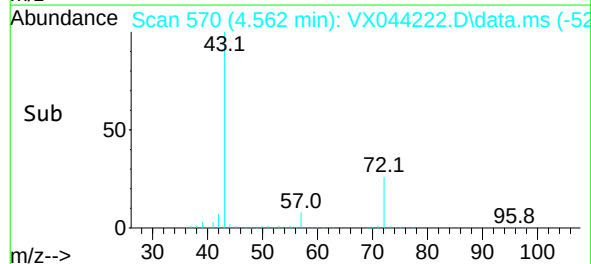
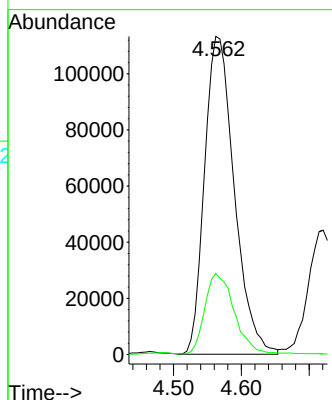
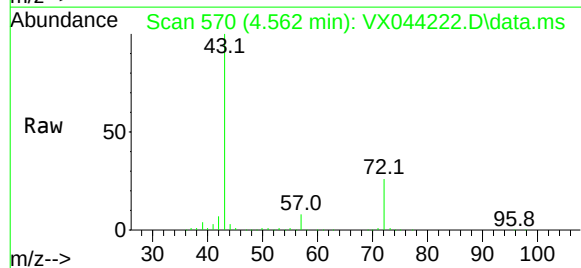
VSTDICCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#26

2,2-Dichloropropane

Concen: 54.914 ug/l

RT: 4.465 min Scan# 554

Delta R.T. 0.000 min

Lab File: VX044222.D

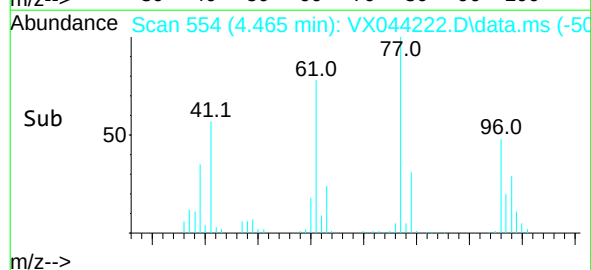
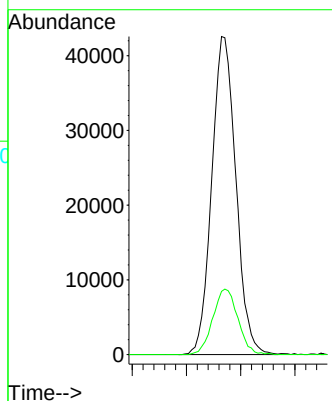
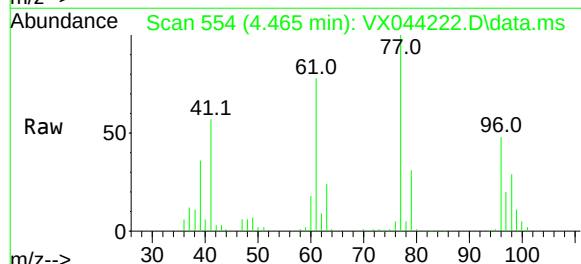
Acq: 11 Dec 2024 12:14

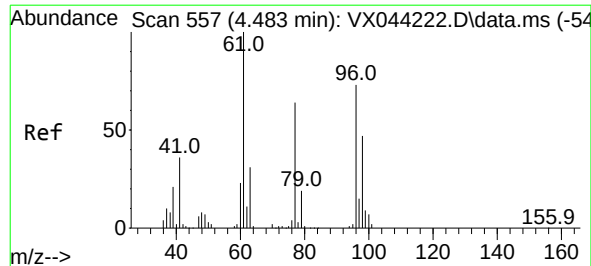
Tgt Ion: 77 Resp: 131428

Ion Ratio Lower Upper

77 100

97 21.4 10.7 32.1





#27

cis-1,2-Dichloroethene

Concen: 51.007 ug/l

RT: 4.483 min Scan# 557

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 97013

Ion Ratio Lower Upper

96 100

61 149.5 0.0 299.0

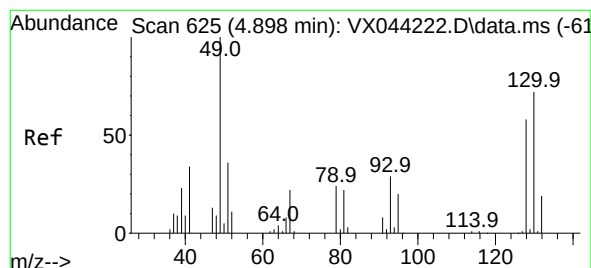
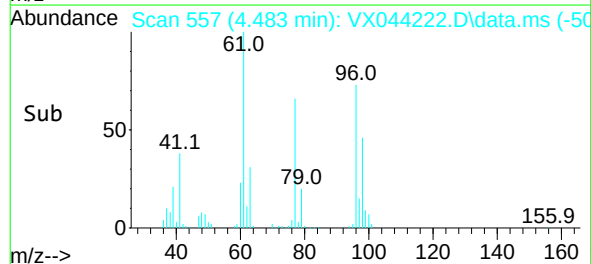
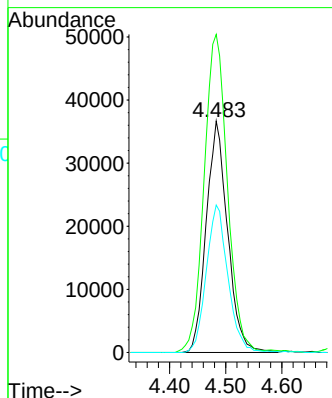
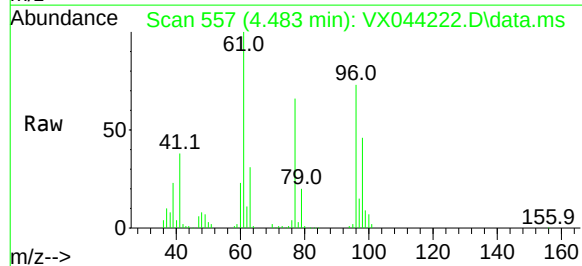
98 64.5 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#28

Bromochloromethane

Concen: 51.555 ug/l

RT: 4.898 min Scan# 625

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

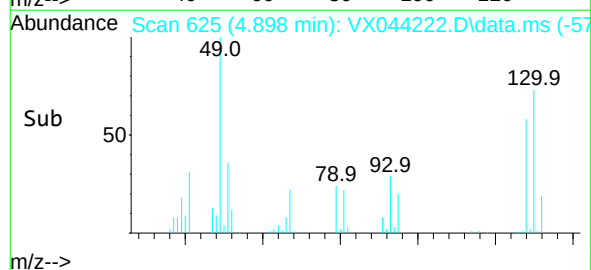
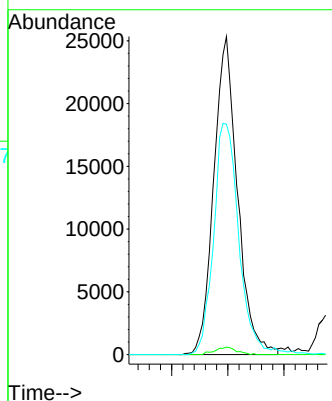
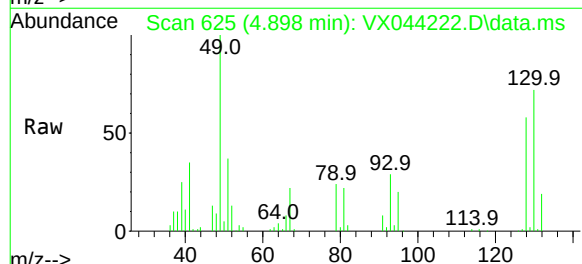
Tgt Ion: 49 Resp: 74477

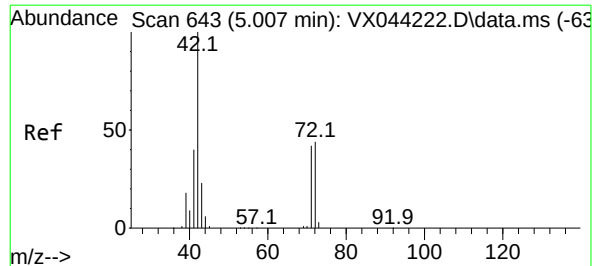
Ion Ratio Lower Upper

49 100

129 2.1 0.0 4.2

130 77.6 62.1 93.1





#29

Tetrahydrofuran

Concen: 258.669 ug/l

RT: 5.007 min Scan# 643

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 212103

Ion Ratio Lower Upper

42 100

72 46.3 37.0 55.6

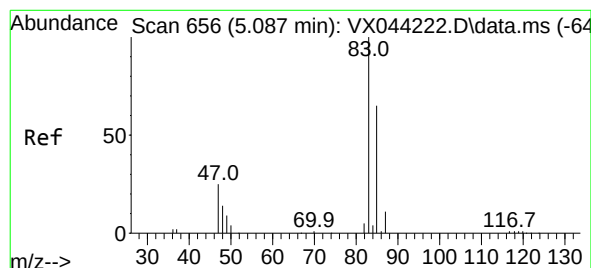
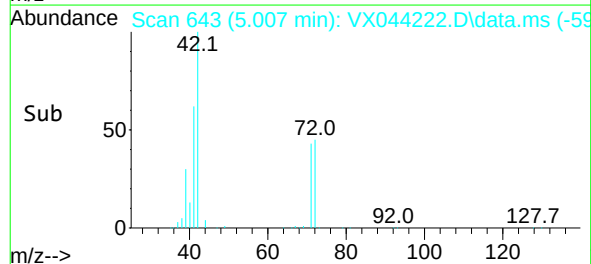
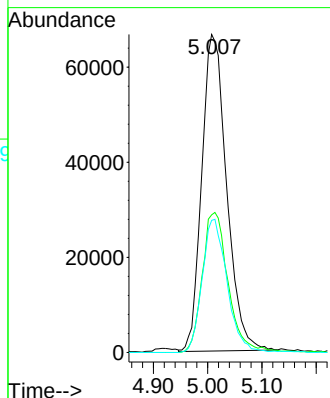
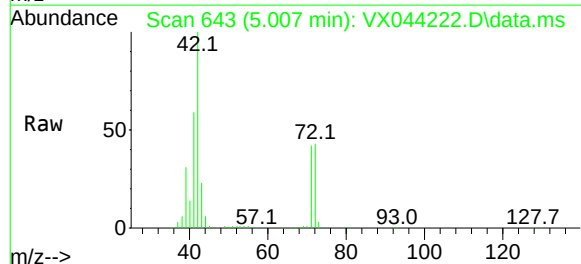
71 42.0 33.6 50.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#30

Chloroform

Concen: 51.017 ug/l

RT: 5.087 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX044222.D

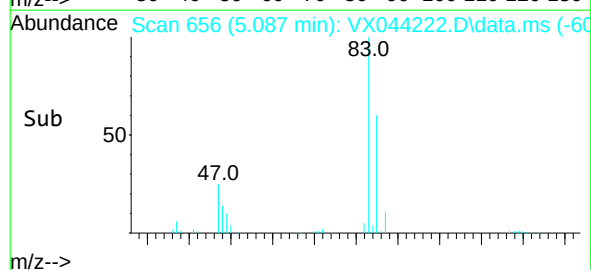
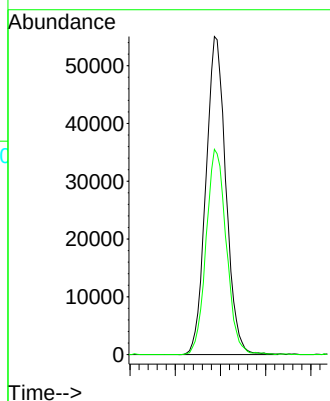
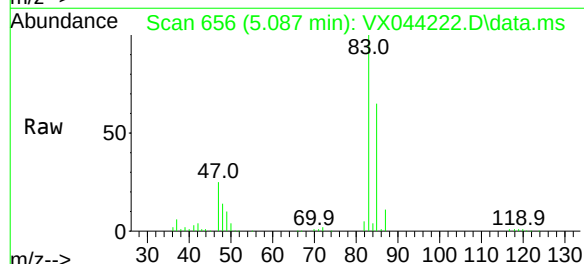
Acq: 11 Dec 2024 12:14

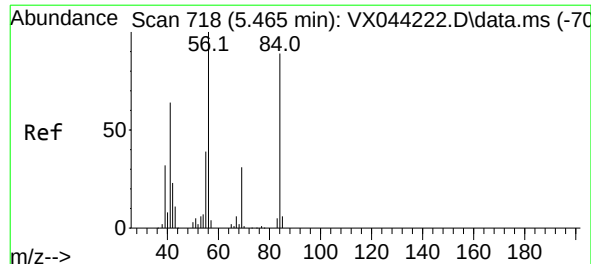
Tgt Ion: 83 Resp: 168864

Ion Ratio Lower Upper

83 100

85 64.5 51.6 77.4





#31

Cyclohexane

Concen: 51.637 ug/l

RT: 5.465 min Scan# 718

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 122841

Ion Ratio Lower Upper

56 100

69 30.9 24.7 37.1

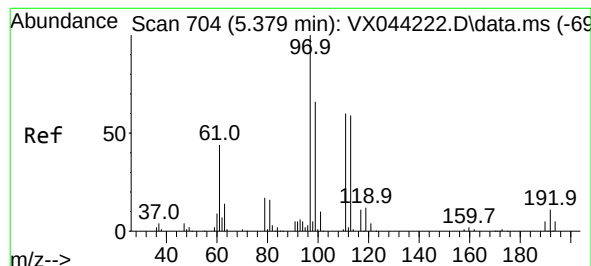
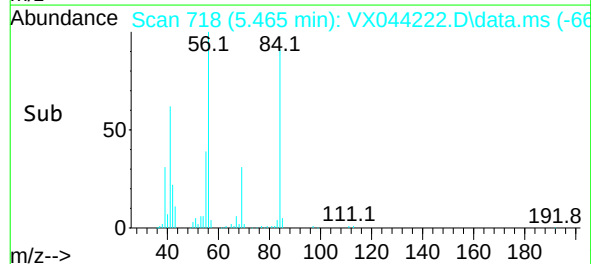
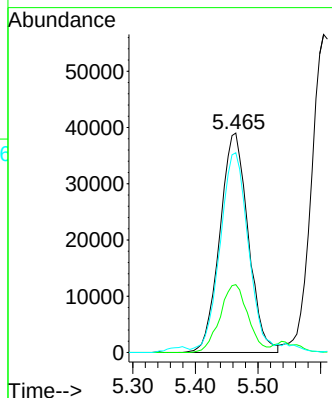
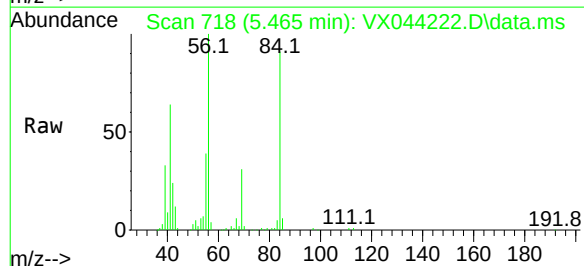
84 88.8 71.0 106.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#32

1,1,1-Trichloroethane

Concen: 53.806 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

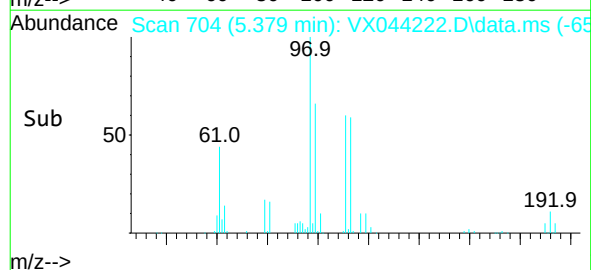
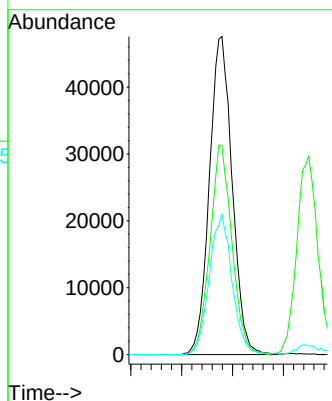
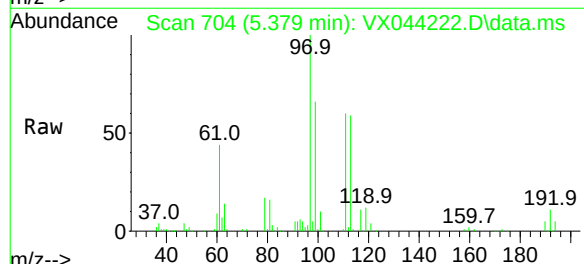
Tgt Ion: 97 Resp: 147834

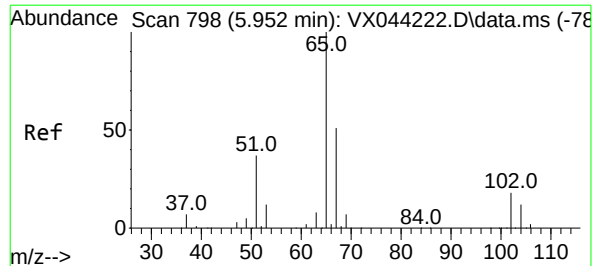
Ion Ratio Lower Upper

97 100

99 63.5 50.8 76.2

61 44.0 35.2 52.8





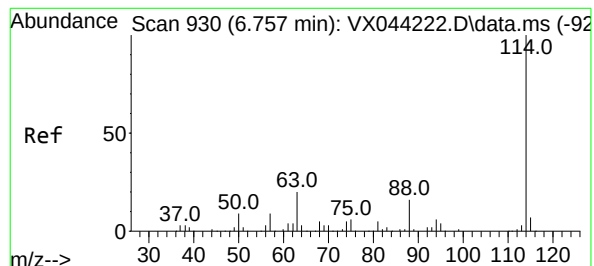
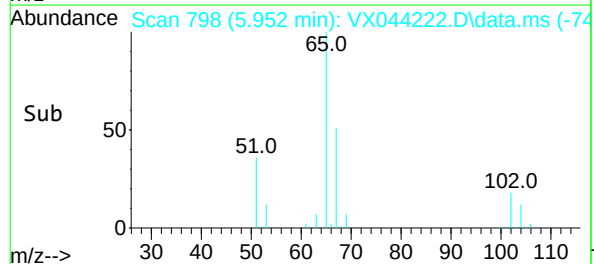
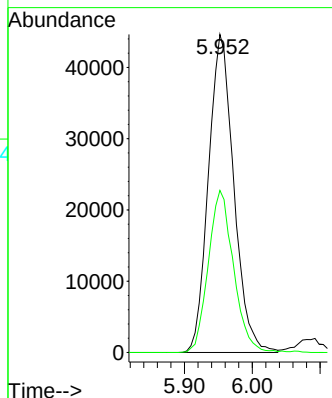
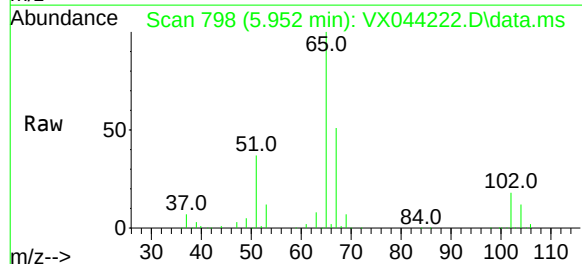
#33
1,2-Dichloroethane-d4
Concen: 52.544 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 115815
Ion Ratio Lower Upper
65 100
67 50.8 0.0 101.6

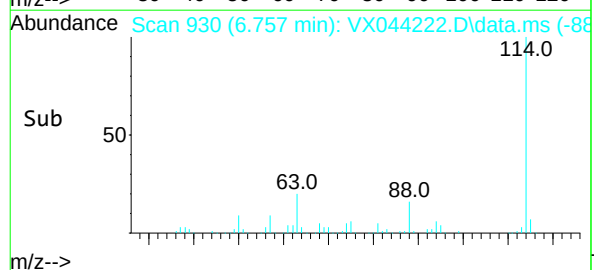
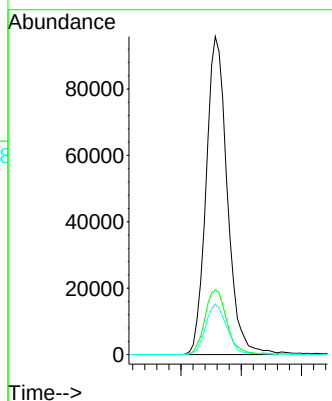
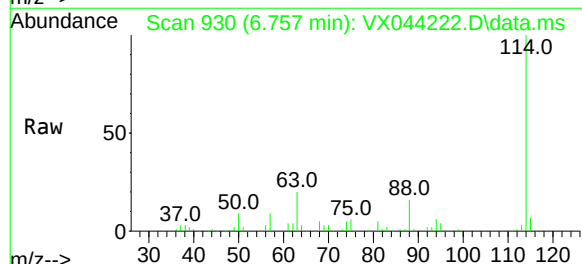
Manual Integrations
APPROVED

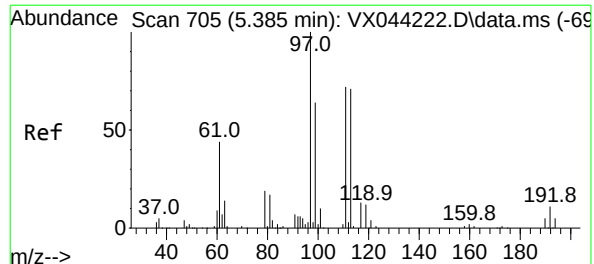
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:114 Resp: 233488
Ion Ratio Lower Upper
114 100
63 20.3 0.0 40.6
88 15.9 0.0 31.8





#35

Dibromofluoromethane

Concen: 52.968 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:113 Resp: 85656

Ion Ratio Lower Upper

113 100

111 100.5 80.4 120.6

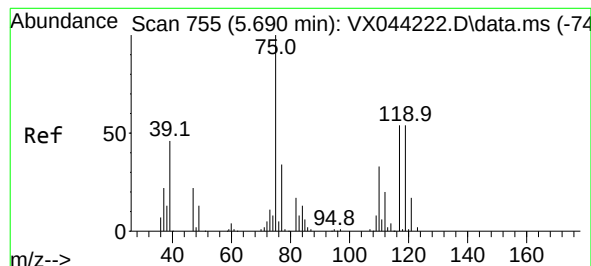
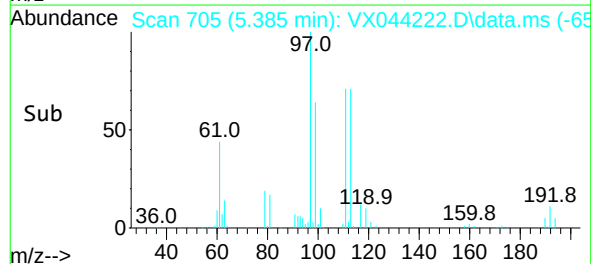
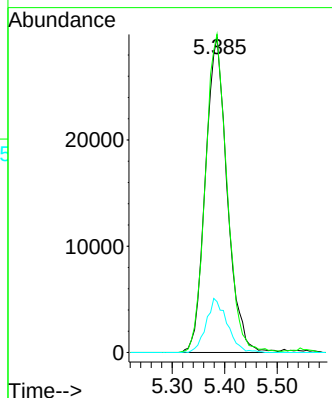
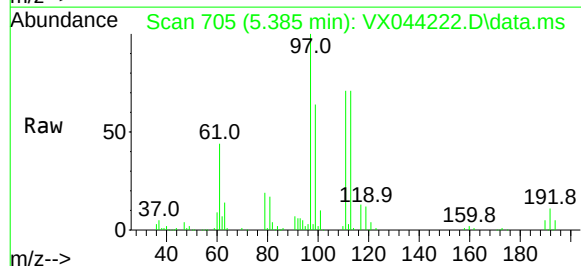
192 16.6 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#36

1,1-Dichloropropene

Concen: 49.638 ug/l

RT: 5.690 min Scan# 755

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

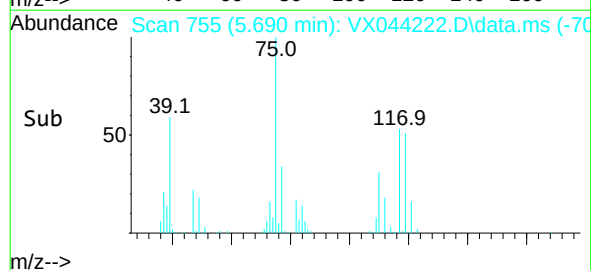
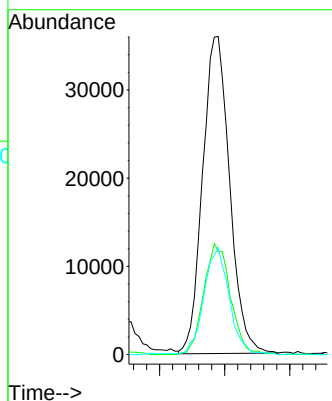
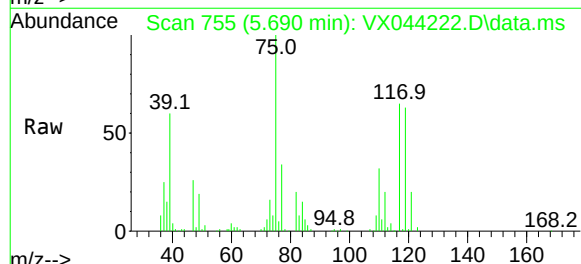
Tgt Ion: 75 Resp: 103760

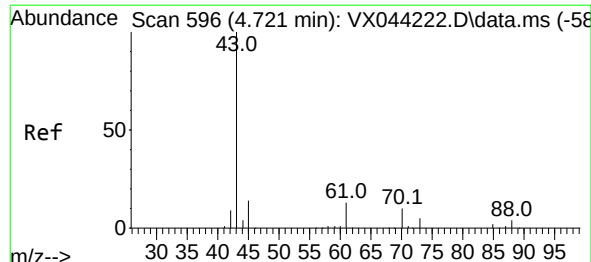
Ion Ratio Lower Upper

75 100

110 34.5 17.3 51.7

77 31.7 25.4 38.0





#37

Ethyl Acetate

Concen: 52.537 ug/l

RT: 4.721 min Scan# 596

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

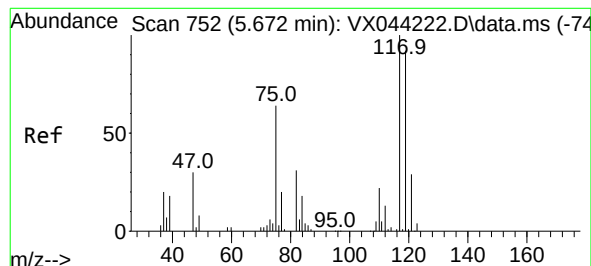
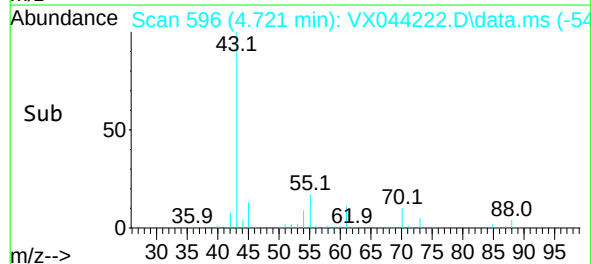
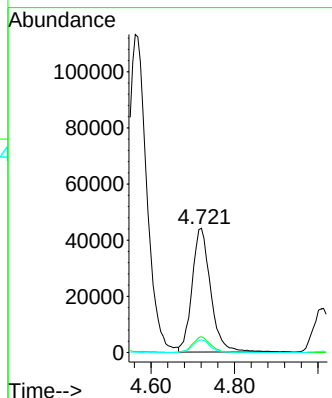
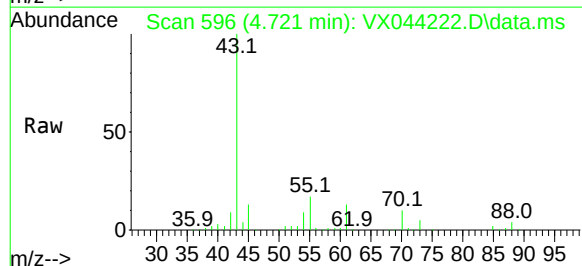
ClientSampleId :

VSTDICCC050

Tgt Ion:	43	Resp:	135753
Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	9.6	7.7	11.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#38

Carbon Tetrachloride

Concen: 52.023 ug/l

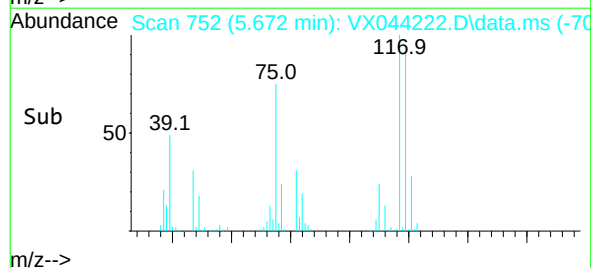
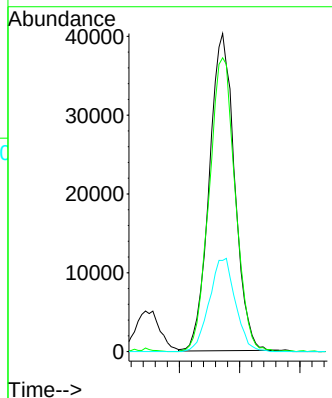
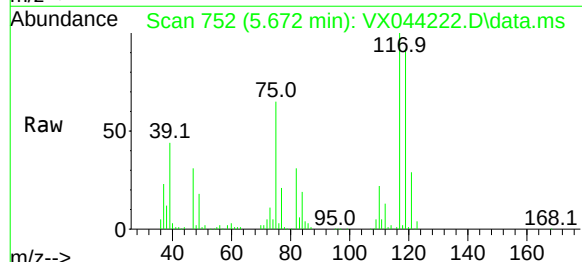
RT: 5.672 min Scan# 752

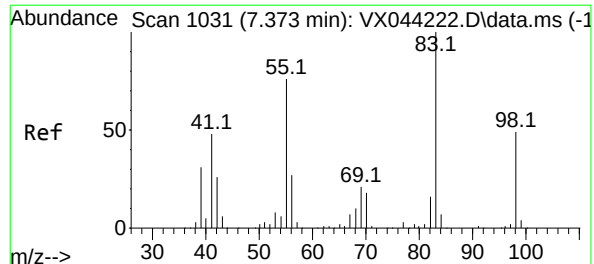
Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Tgt Ion:	117	Resp:	117076
Ion	Ratio	Lower	Upper
117	100		
119	92.8	74.2	111.4
121	28.8	23.0	34.6





#39

Methylcyclohexane

Concen: 51.901 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 129697

Ion Ratio Lower Upper

83 100

55 75.9 60.7 91.1

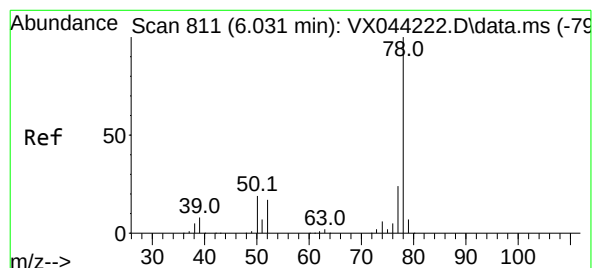
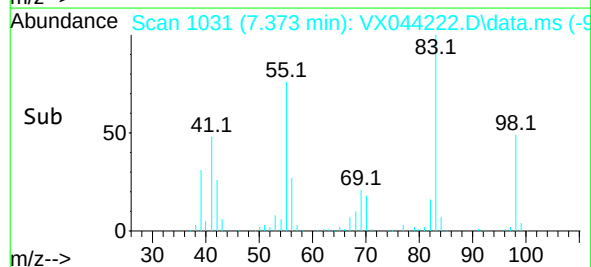
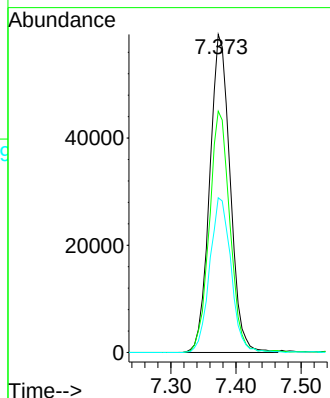
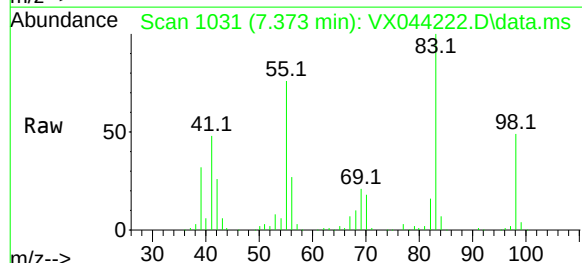
98 48.6 38.9 58.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#40

Benzene

Concen: 51.863 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX044222.D

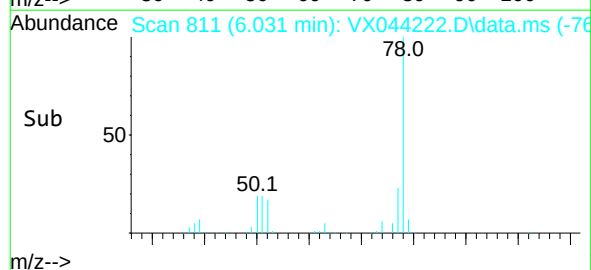
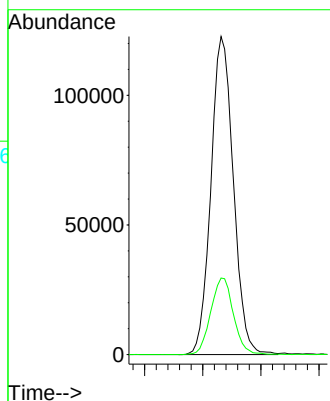
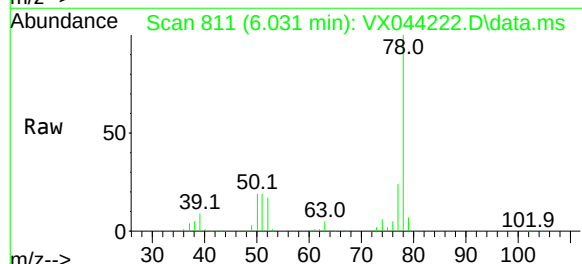
Acq: 11 Dec 2024 12:14

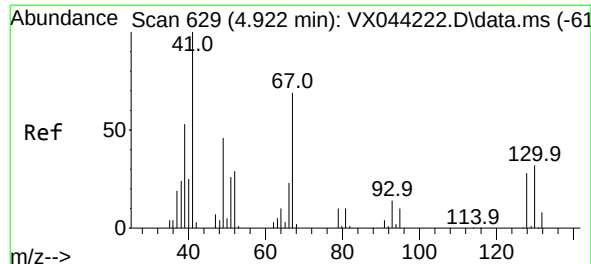
Tgt Ion: 78 Resp: 329154

Ion Ratio Lower Upper

78 100

77 24.1 19.3 28.9





#41

Methacrylonitrile

Concen: 51.329 ug/l

RT: 4.922 min Scan# 629

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 41 Resp: 70427

Ion Ratio Lower Upper

41 100

39 55.3 44.2 66.4

67 71.5 57.2 85.8

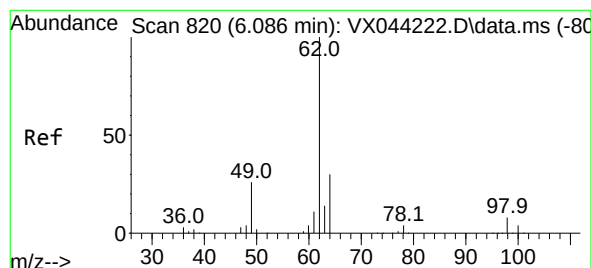
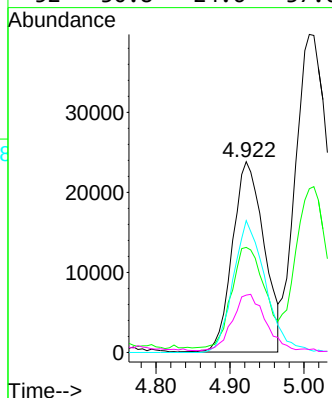
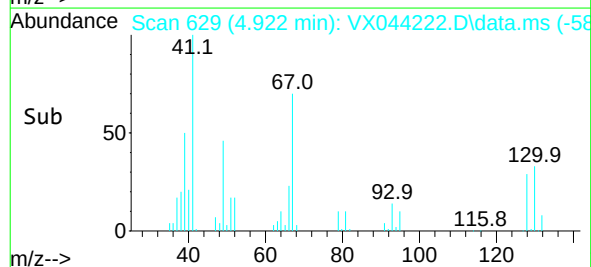
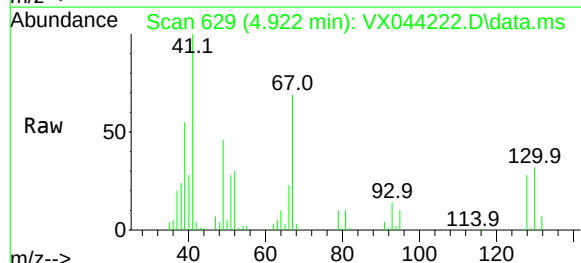
52 30.8 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#42

1,2-Dichloroethane

Concen: 52.138 ug/l

RT: 6.086 min Scan# 820

Delta R.T. 0.000 min

Lab File: VX044222.D

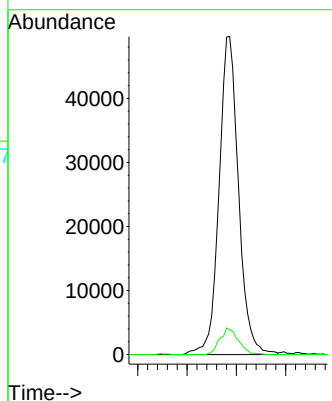
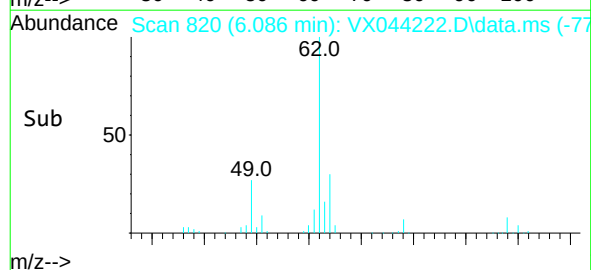
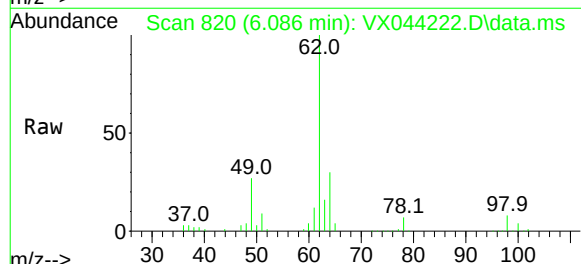
Acq: 11 Dec 2024 12:14

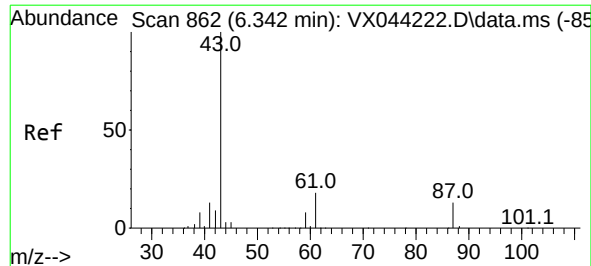
Tgt Ion: 62 Resp: 136309

Ion Ratio Lower Upper

62 100

98 7.9 0.0 15.8





#43

Isopropyl Acetate

Concen: 52.961 ug/l

RT: 6.342 min Scan# 862

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

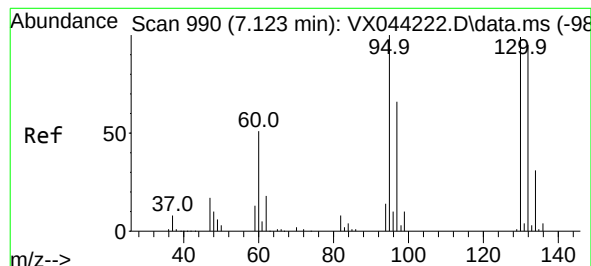
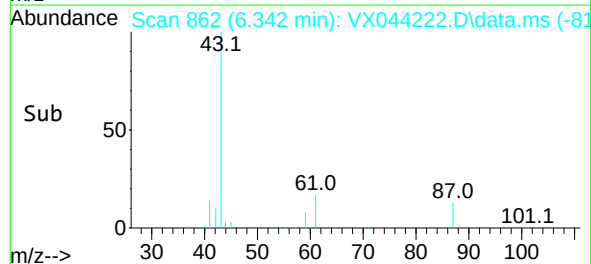
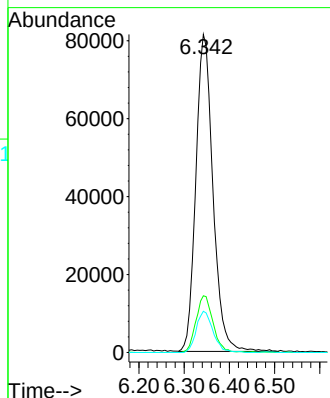
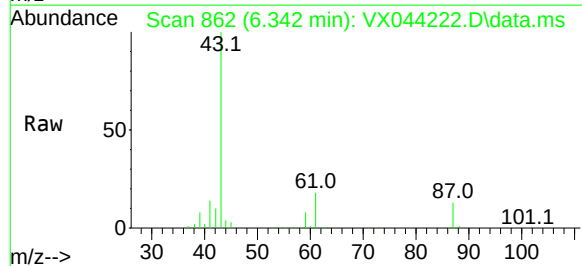
ClientSampleId :

VSTDICCC050

Tgt Ion:	43	Resp:	213891
Ion	Ratio	Lower	Upper
43	100		
61	17.7	14.2	21.2
87	12.7	10.2	15.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#44

Trichloroethene

Concen: 51.521 ug/l

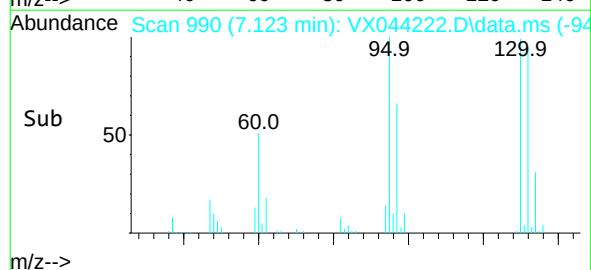
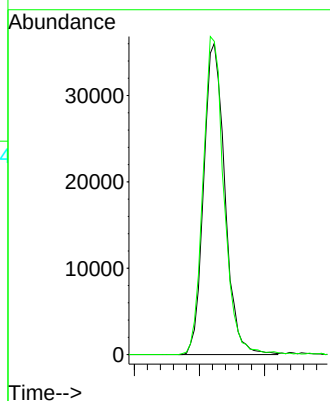
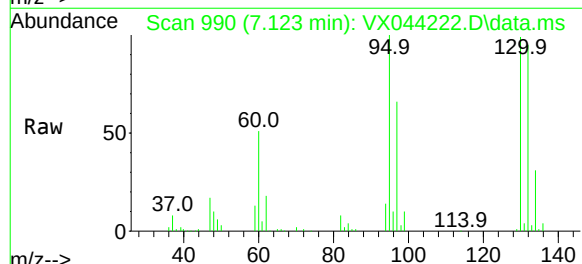
RT: 7.123 min Scan# 990

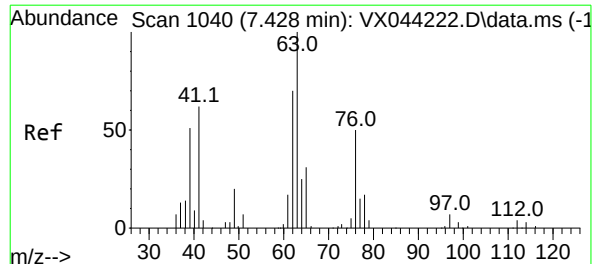
Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Tgt Ion:	130	Resp:	81542
Ion	Ratio	Lower	Upper
130	100		
95	100.7	0.0	201.4





#45

1,2-Dichloropropane

Concen: 51.420 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 83376

Ion Ratio Lower Upper

63 100

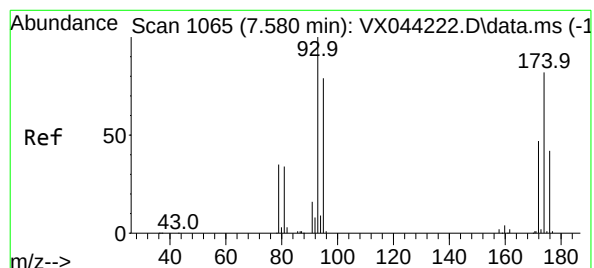
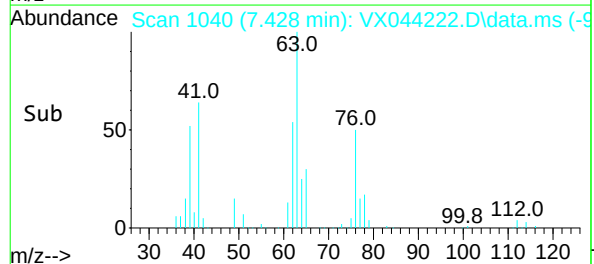
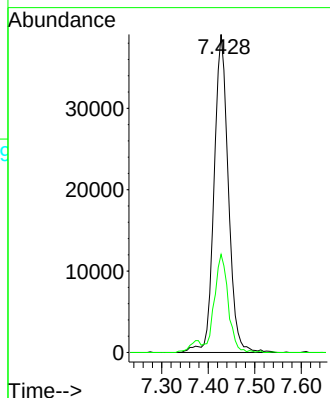
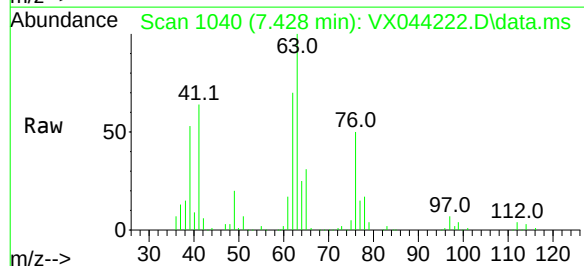
65 30.8 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#46

Dibromomethane

Concen: 53.092 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

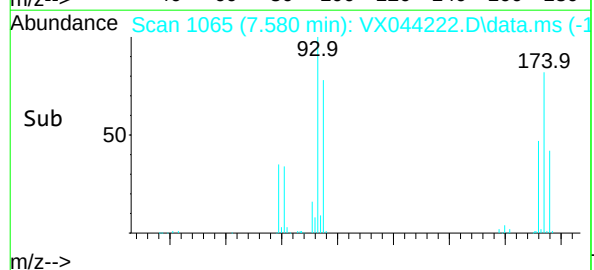
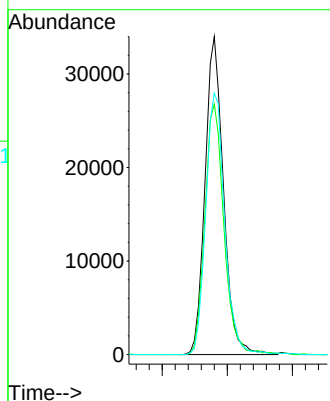
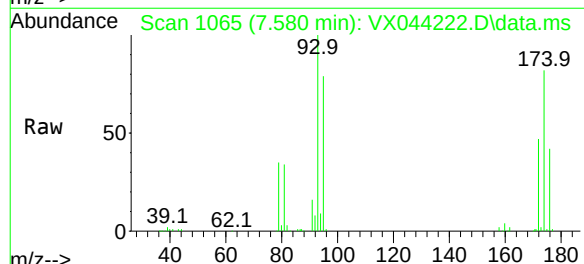
Tgt Ion: 93 Resp: 66786

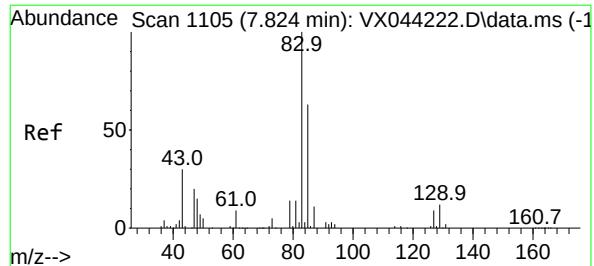
Ion Ratio Lower Upper

93 100

95 81.8 65.4 98.2

174 84.9 67.9 101.9





#47

Bromodichloromethane

Concen: 54.607 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 118634

Ion Ratio Lower Upper

83 100

85 63.2 50.6 75.8

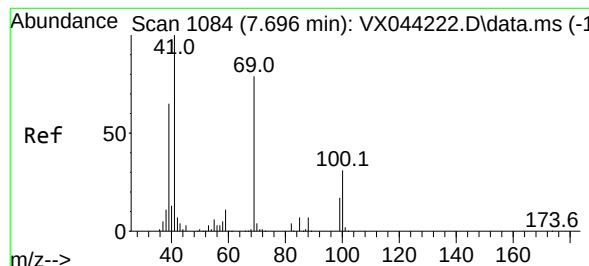
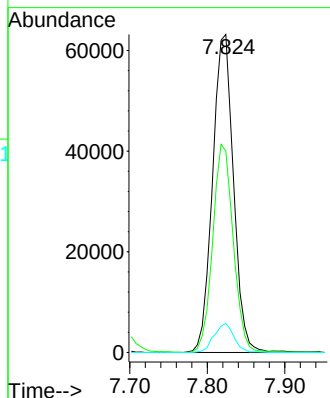
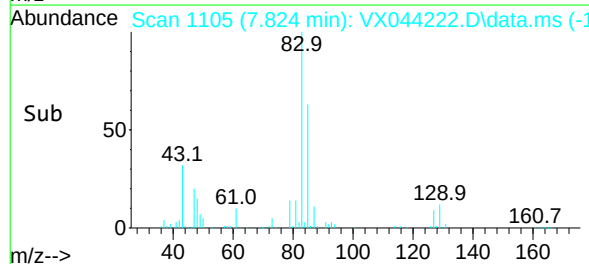
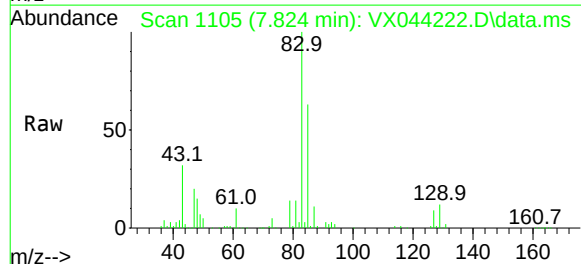
127 9.1 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#48

Methyl methacrylate

Concen: 52.909 ug/l

RT: 7.696 min Scan# 1084

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

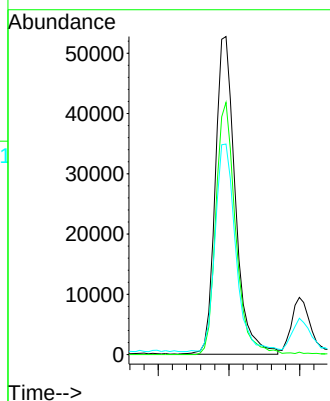
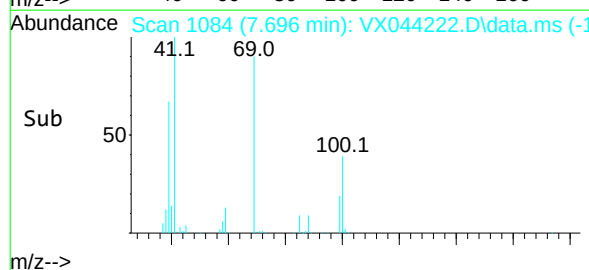
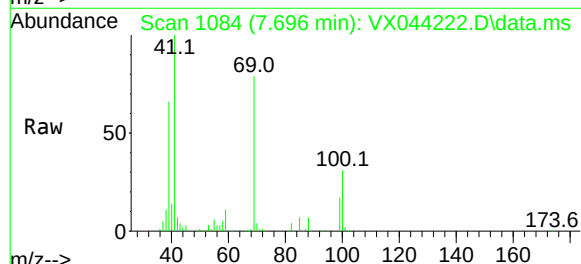
Tgt Ion: 41 Resp: 103726

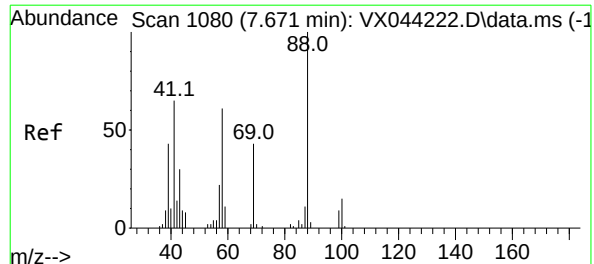
Ion Ratio Lower Upper

41 100

69 78.0 62.4 93.6

39 66.6 53.3 79.9





#49

1,4-Dioxane

Concen: 1052.498 ug/l m

RT: 7.671 min Scan# 1080

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 88 Resp: 35263

Ion Ratio Lower Upper

88 100

43 36.2 27.1 40.7

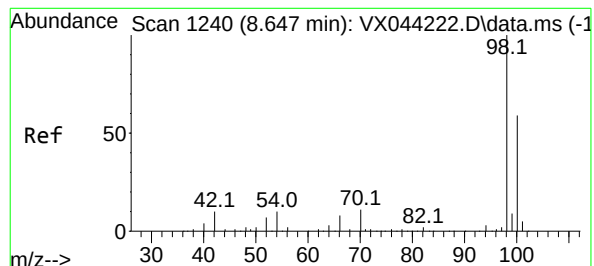
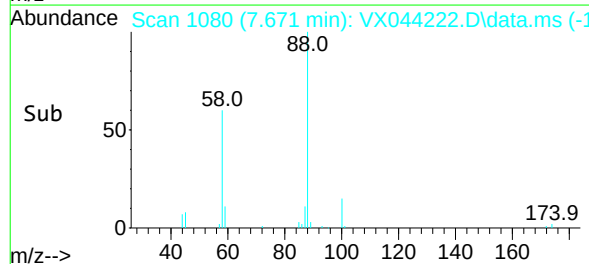
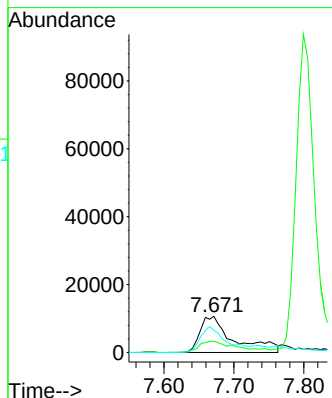
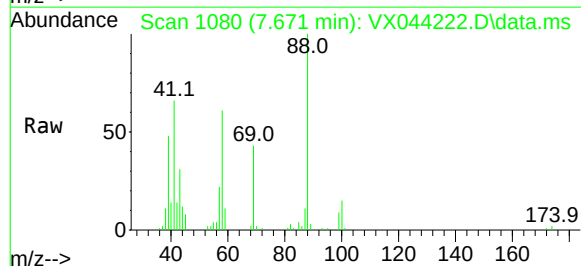
58 54.7 41.0 61.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#50

Toluene-d8

Concen: 53.559 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044222.D

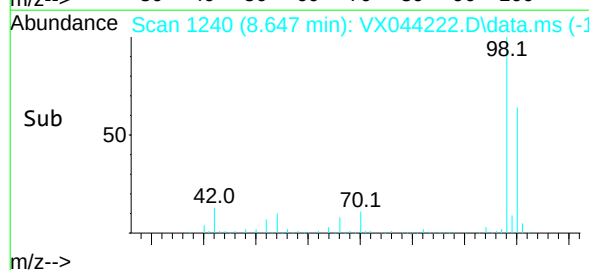
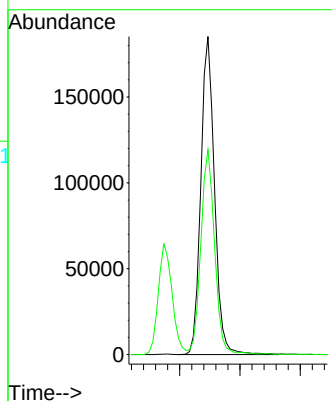
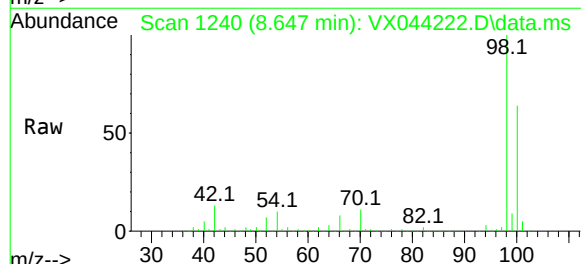
Acq: 11 Dec 2024 12:14

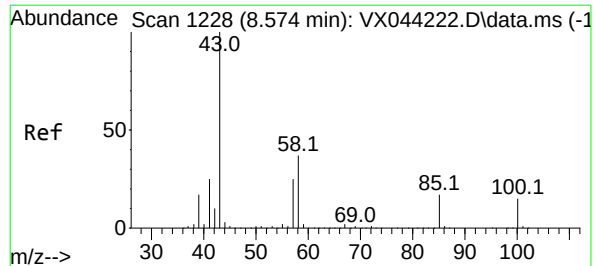
Tgt Ion: 98 Resp: 292199

Ion Ratio Lower Upper

98 100

100 64.4 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 265.203 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 688666

Ion Ratio Lower Upper

43 100

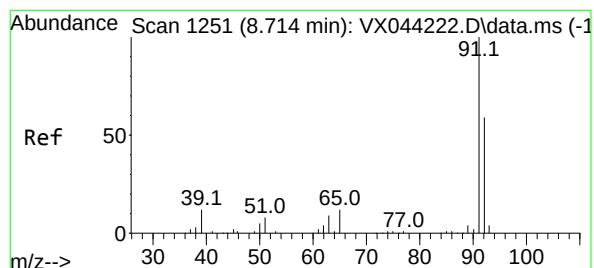
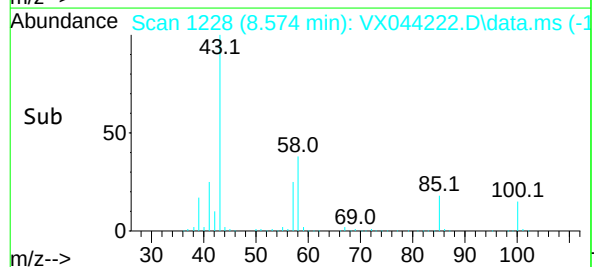
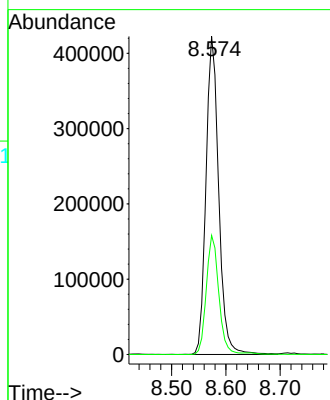
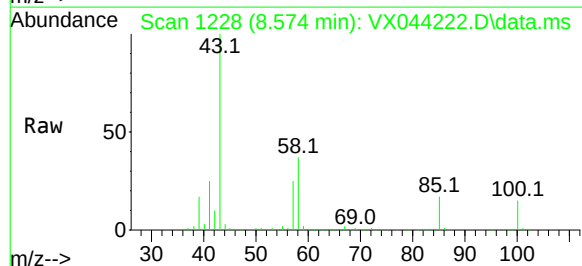
58 36.7 29.4 44.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#52

Toluene

Concen: 51.370 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. 0.000 min

Lab File: VX044222.D

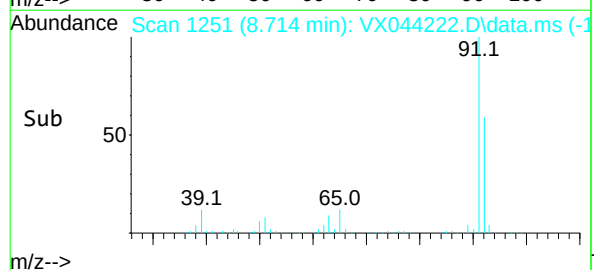
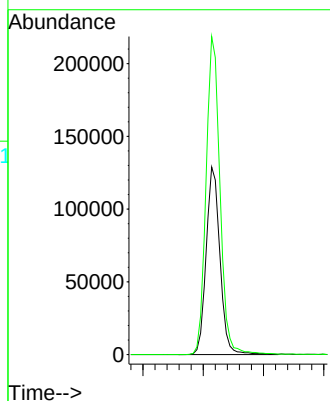
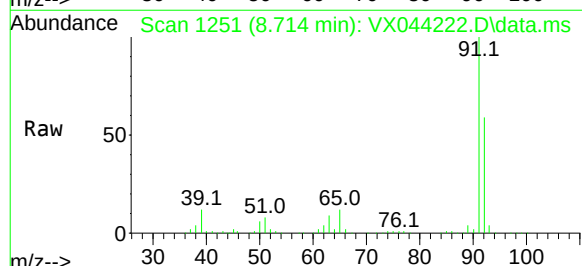
Acq: 11 Dec 2024 12:14

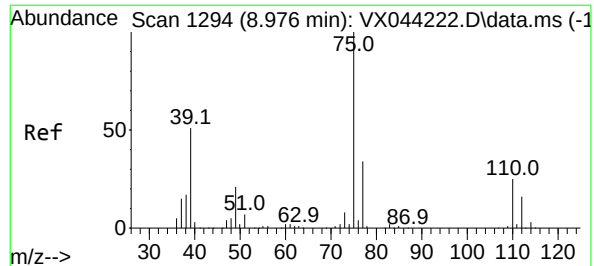
Tgt Ion: 92 Resp: 204738

Ion Ratio Lower Upper

92 100

91 171.3 137.0 205.6





#53

t-1,3-Dichloropropene

Concen: 51.362 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 120007

Ion Ratio Lower Upper

75 100

77 34.0 27.2 40.8

Instrument :

MSVOA_X

ClientSampleId :

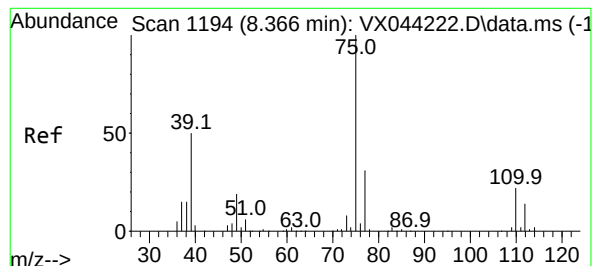
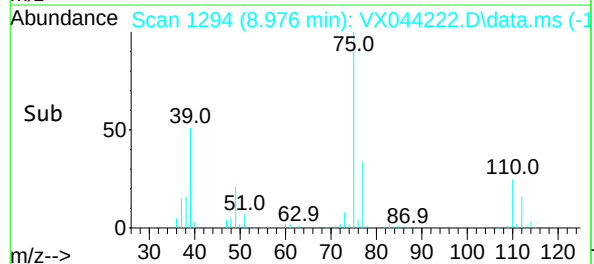
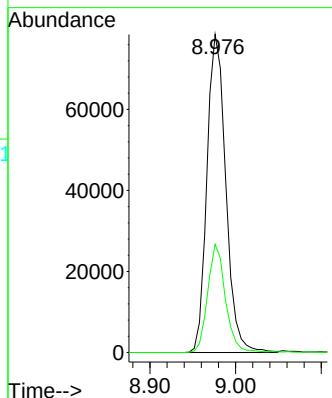
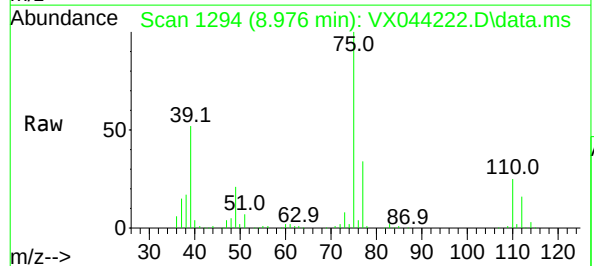
VSTDICCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#54

cis-1,3-Dichloropropene

Concen: 55.923 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

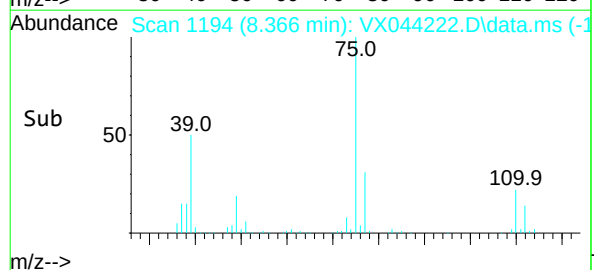
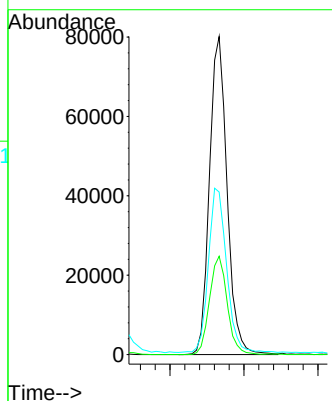
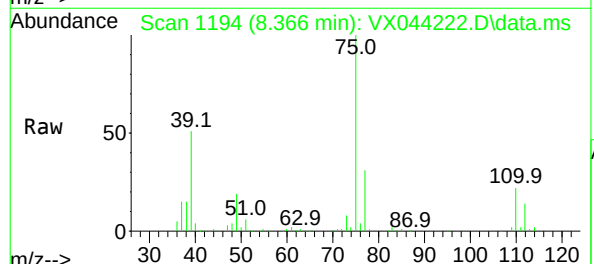
Tgt Ion: 75 Resp: 132286

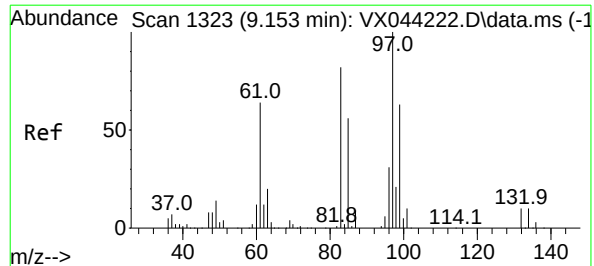
Ion Ratio Lower Upper

75 100

77 30.9 24.7 37.1

39 50.4 40.3 60.5





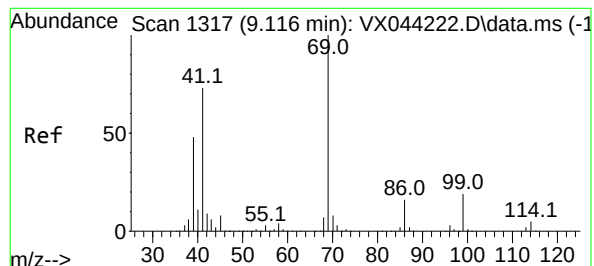
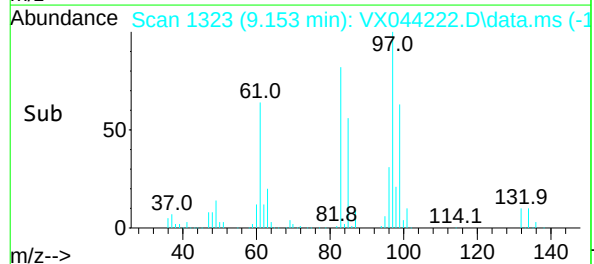
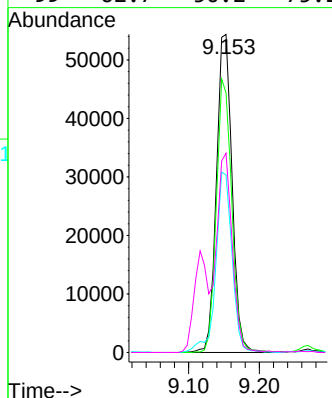
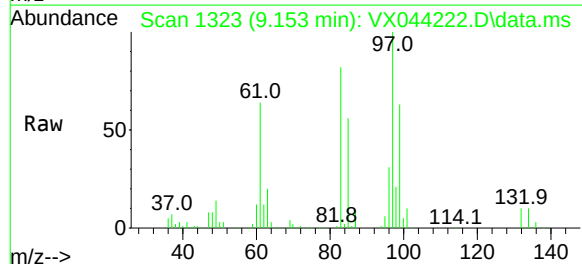
#55
1,1,2-Trichloroethane
Concen: 52.729 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
97	100		
83	81.6	65.3	97.9
85	55.8	44.6	67.0
99	62.7	50.2	75.2

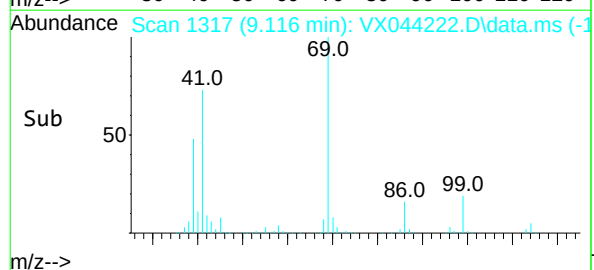
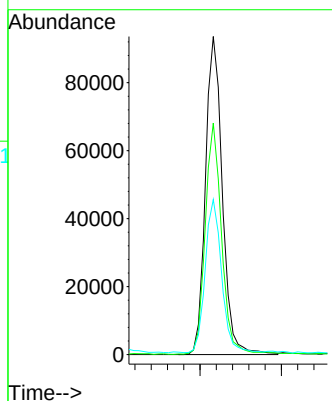
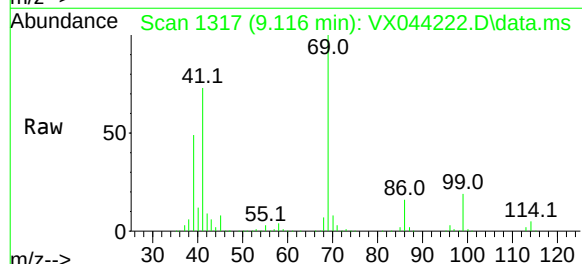
Manual Integrations
APPROVED

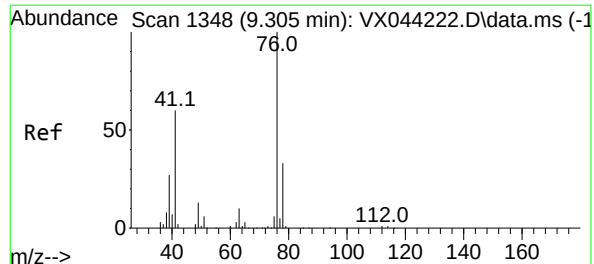
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#56
Ethyl methacrylate
Concen: 53.917 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion	Ratio	Lower	Upper
69	100		
41	70.8	56.6	85.0
39	46.7	37.4	56.0





#57

1,3-Dichloropropane

Concen: 51.904 ug/l

RT: 9.305 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 143044

Ion Ratio Lower Upper

76 100

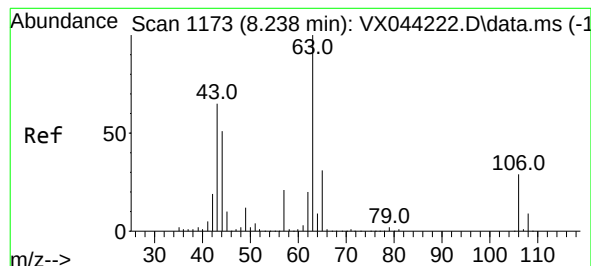
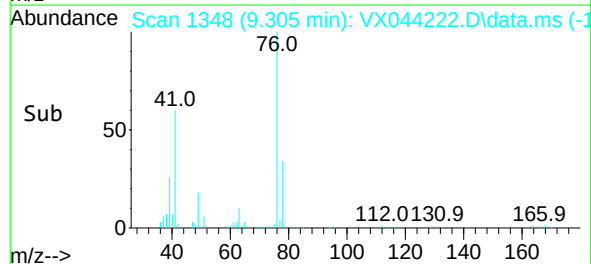
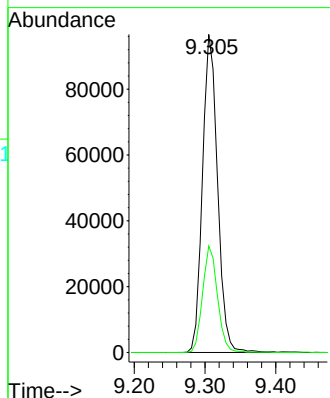
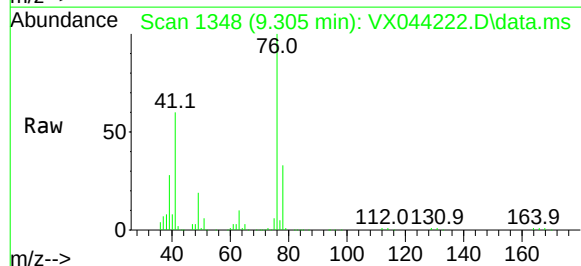
78 33.1 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#58

2-Chloroethyl Vinyl ether

Concen: 271.745 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044222.D

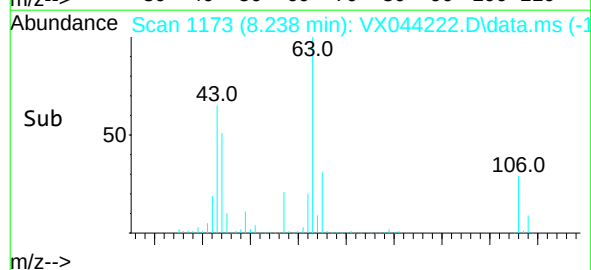
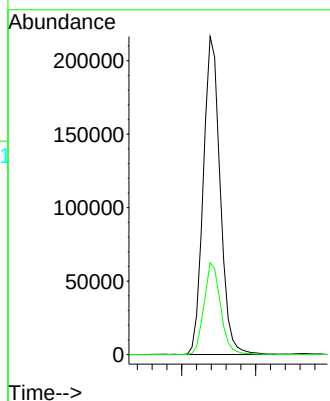
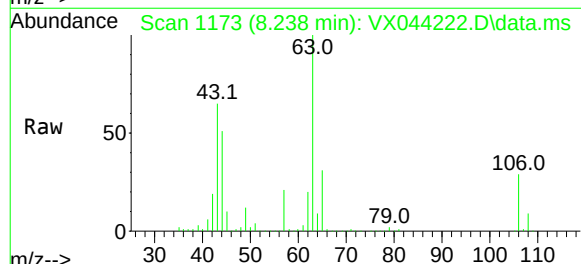
Acq: 11 Dec 2024 12:14

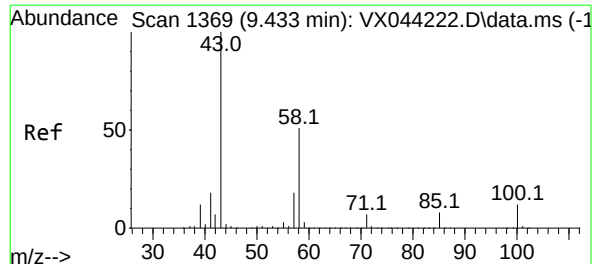
Tgt Ion: 63 Resp: 342592

Ion Ratio Lower Upper

63 100

106 28.5 22.8 34.2





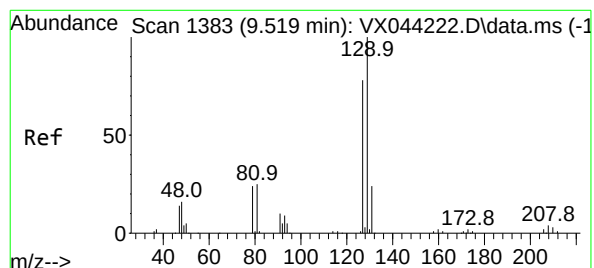
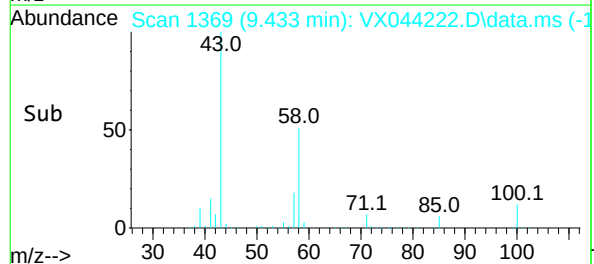
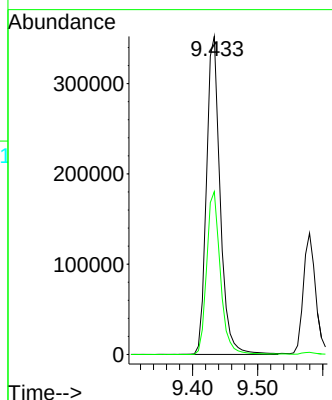
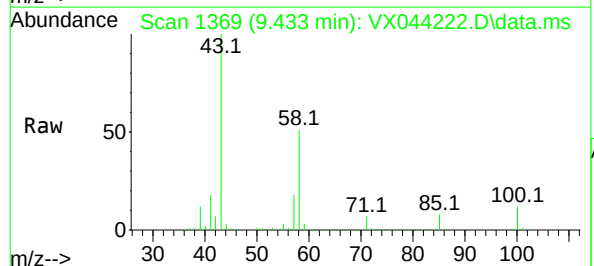
#59
2-Hexanone
Concen: 272.881 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 512906
Ion Ratio Lower Upper
43 100
58 51.3 25.7 77.0

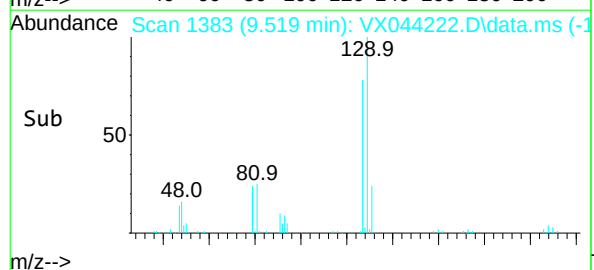
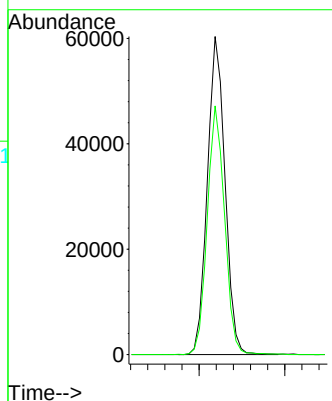
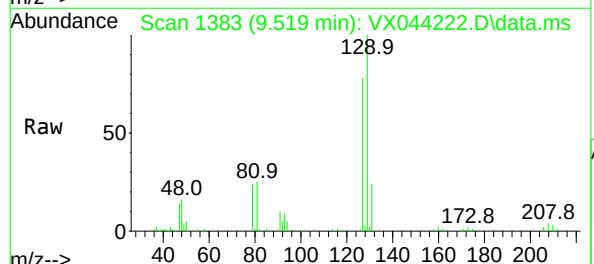
Manual Integrations
APPROVED

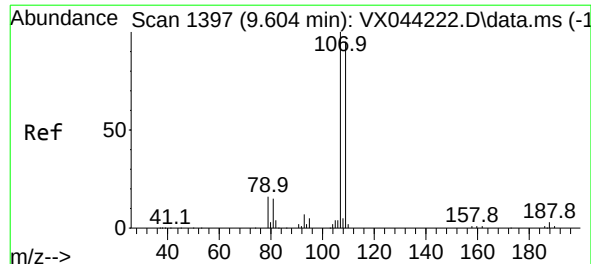
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#60
Dibromochloromethane
Concen: 51.400 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:129 Resp: 86352
Ion Ratio Lower Upper
129 100
127 76.9 38.5 115.3





#61

1,2-Dibromoethane

Concen: 53.454 ug/l

RT: 9.604 min Scan# 1397

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 107 Resp: 86156

Ion Ratio Lower Upper

107 100

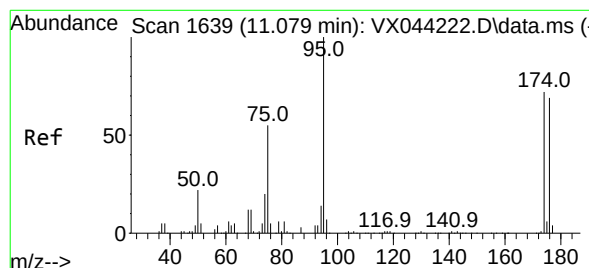
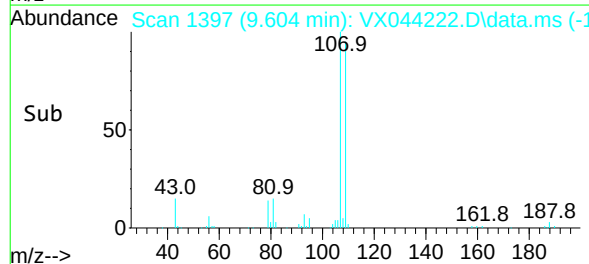
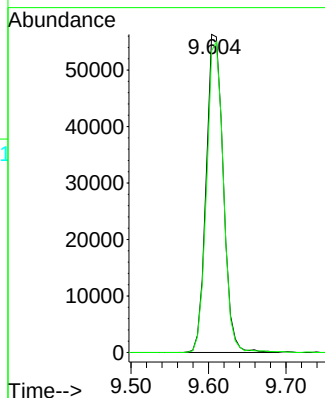
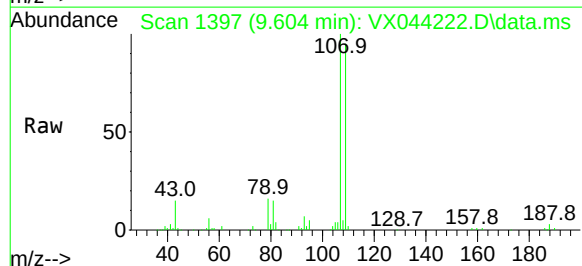
109 96.2 77.0 115.4

Manual Integrations

APPROVED

Reviewed By : John Carlone 12/12/2024

Supervised By : Mahesh Dadoda 12/12/2024



#62

4-Bromofluorobenzene

Concen: 54.123 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

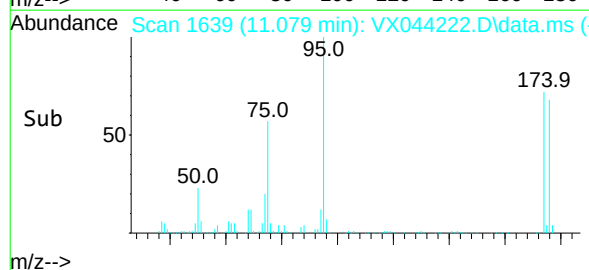
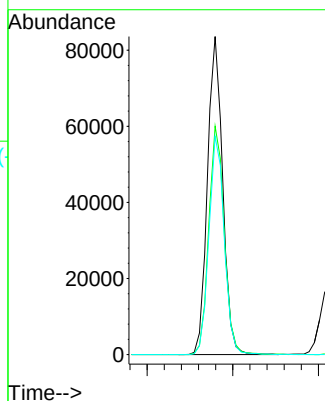
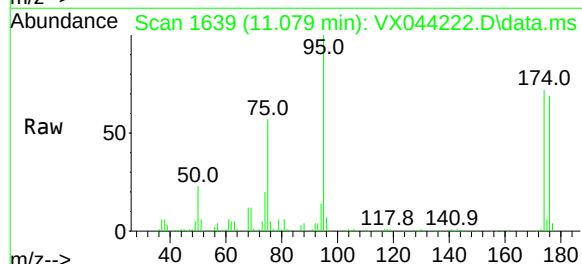
Tgt Ion: 95 Resp: 103178

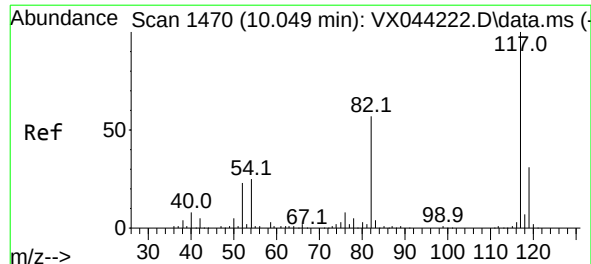
Ion Ratio Lower Upper

95 100

174 72.9 0.0 145.8

176 68.9 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:117 Resp: 205196

Ion Ratio Lower Upper

117 100

82 57.3 45.8 68.8

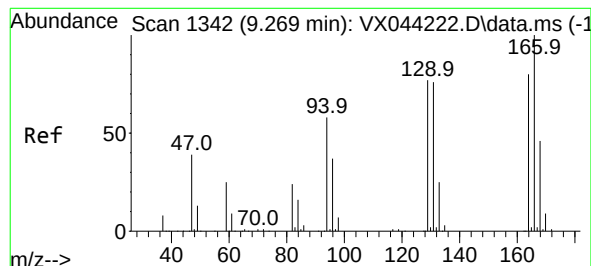
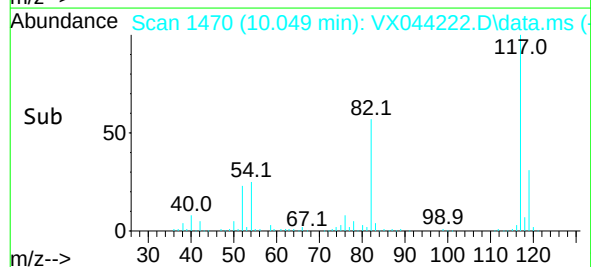
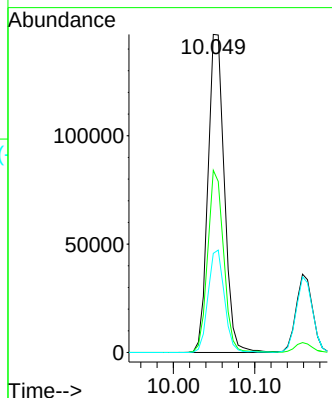
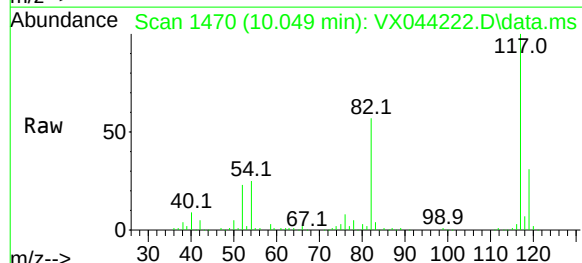
119 31.2 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#64

Tetrachloroethene

Concen: 48.379 ug/l

RT: 9.269 min Scan# 1342

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Tgt Ion:164 Resp: 65888

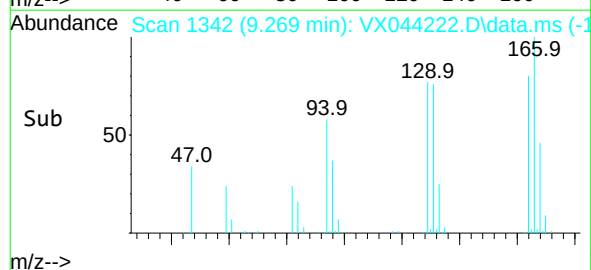
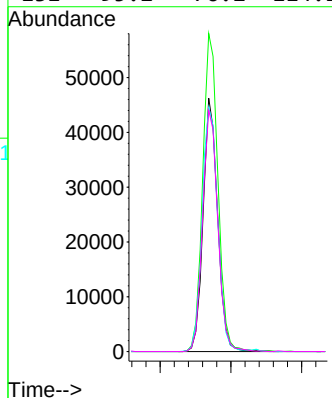
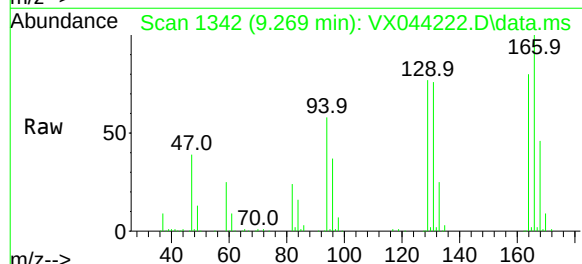
Ion Ratio Lower Upper

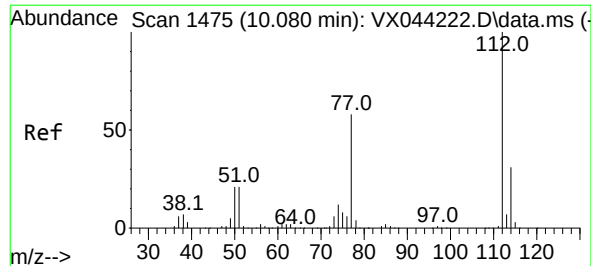
164 100

166 125.5 100.4 150.6

129 96.5 77.2 115.8

131 95.2 76.2 114.2





#65

Chlorobenzene

Concen: 50.779 ug/l

RT: 10.080 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:112 Resp: 223269

Ion Ratio Lower Upper

112 100

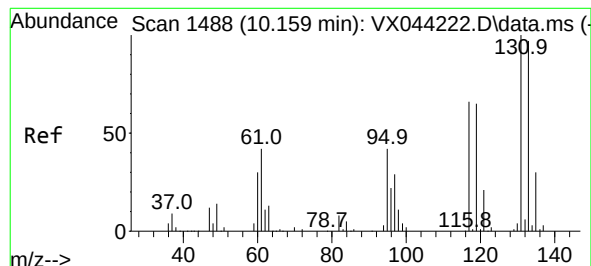
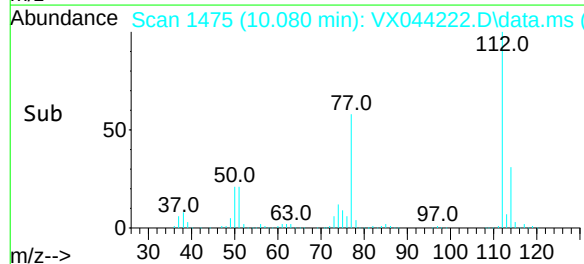
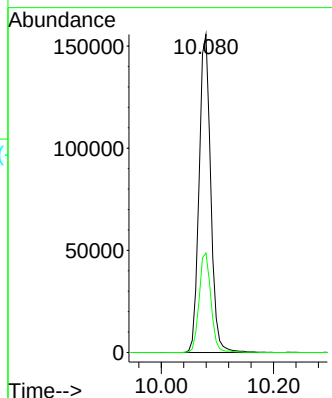
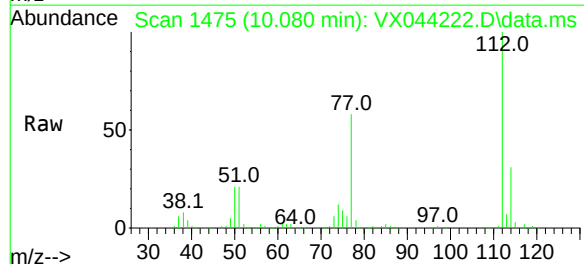
114 31.3 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 54.396 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

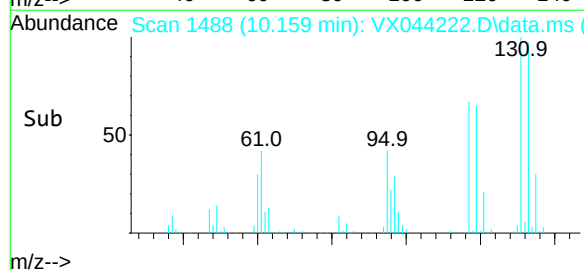
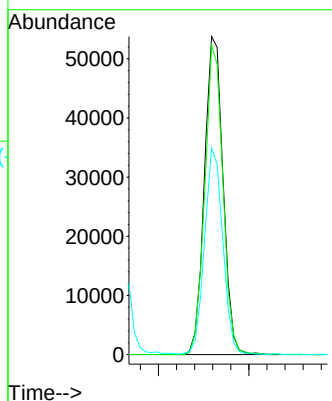
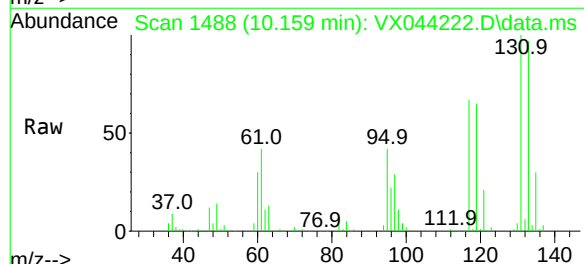
Tgt Ion:131 Resp: 76867

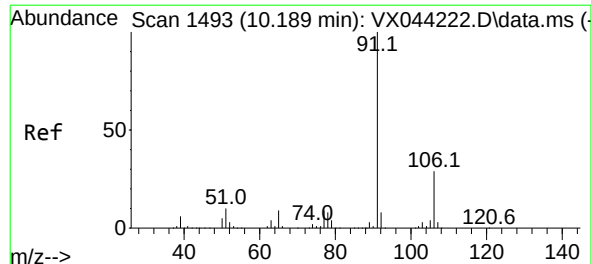
Ion Ratio Lower Upper

131 100

133 94.5 47.3 141.8

119 63.3 31.6 95.0





#67

Ethyl Benzene

Concen: 52.050 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 395430

Ion Ratio Lower Upper

91 100

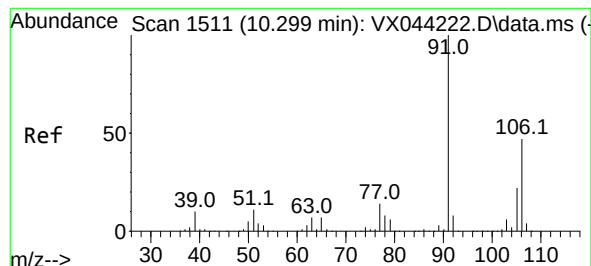
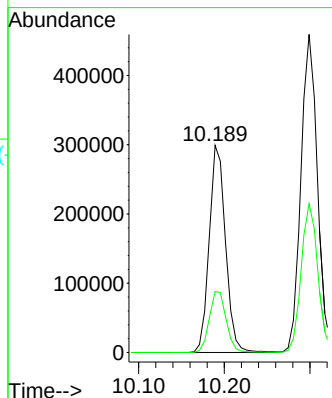
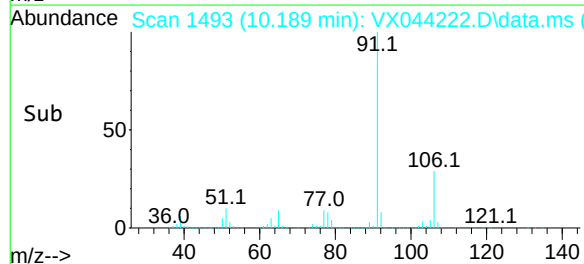
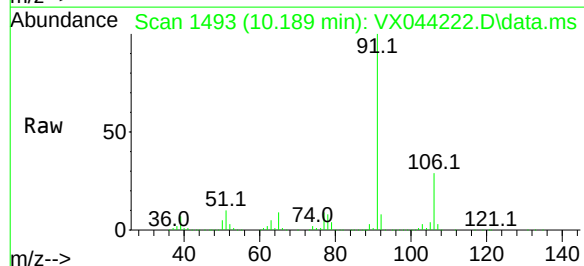
106 29.4 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#68

m/p-Xylenes

Concen: 104.094 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX044222.D

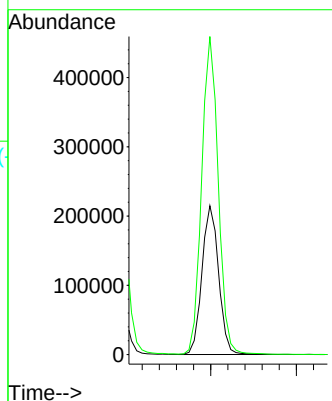
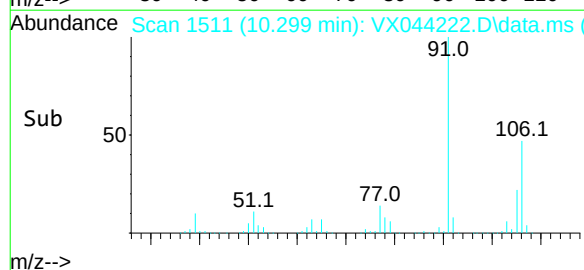
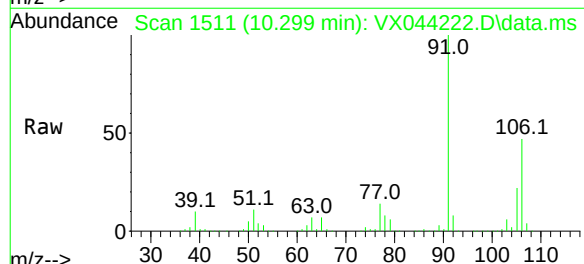
Acq: 11 Dec 2024 12:14

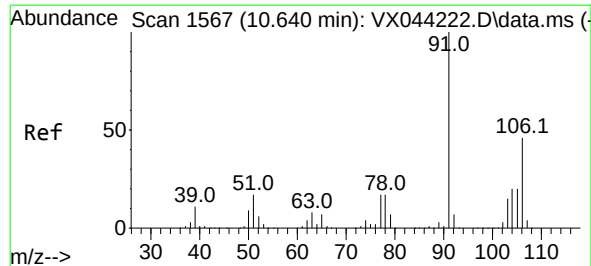
Tgt Ion:106 Resp: 290181

Ion Ratio Lower Upper

106 100

91 212.7 170.2 255.2





#69

o-Xylene

Concen: 51.141 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:106 Resp: 144247

Ion Ratio Lower Upper

106 100

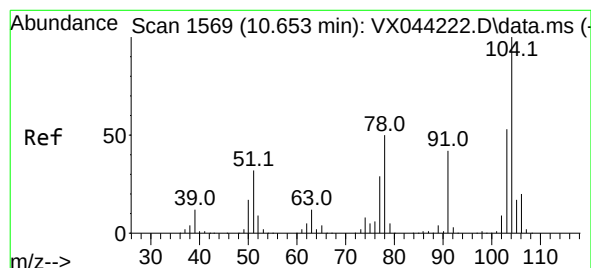
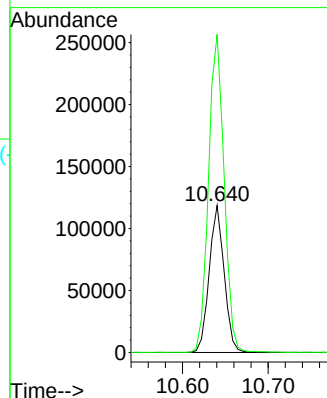
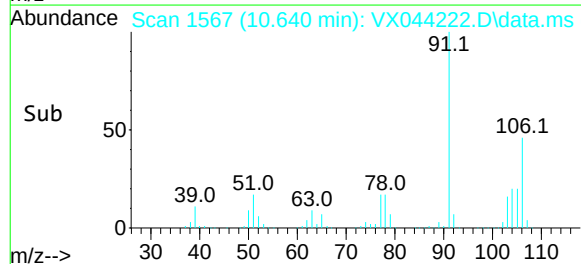
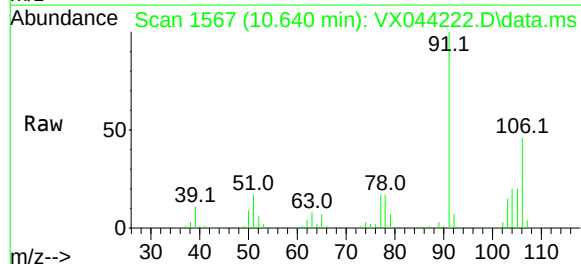
91 224.7 112.3 337.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#70

Styrene

Concen: 52.719 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

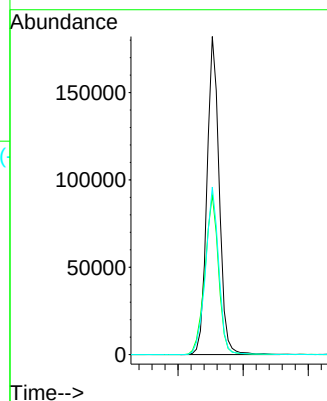
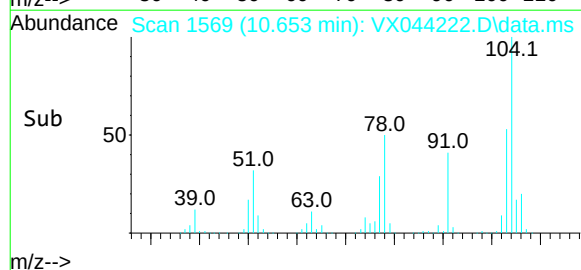
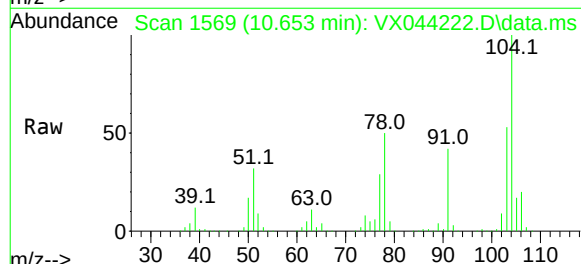
Tgt Ion:104 Resp: 238379

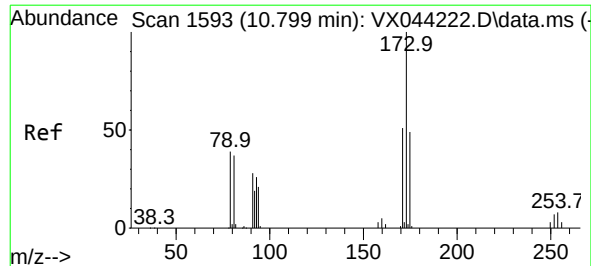
Ion Ratio Lower Upper

104 100

78 55.8 44.6 67.0

103 56.7 45.4 68.0





#71

Bromoform

Concen: 51.158 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

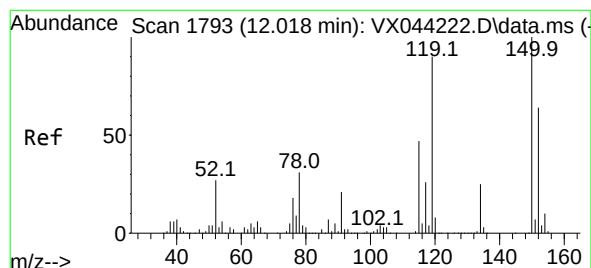
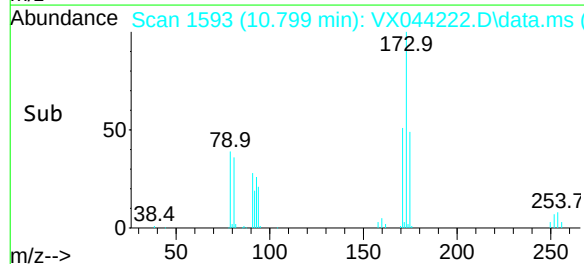
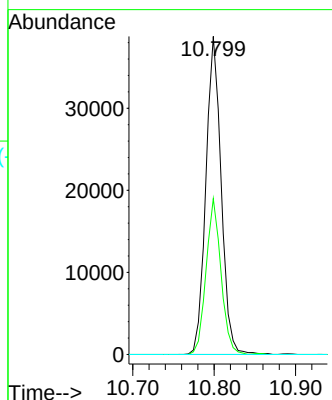
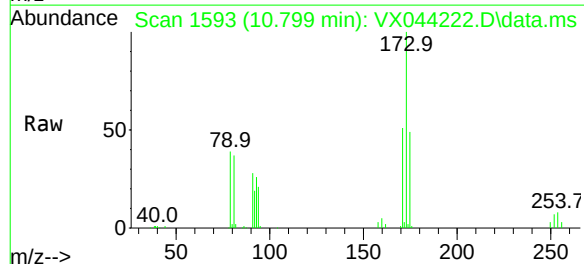
ClientSampleId :

VSTDICCC050

Tgt Ion:	173	Resp:	50667
Ion Ratio	Lower	Upper	
173	100		
175	47.6	23.8	71.4
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

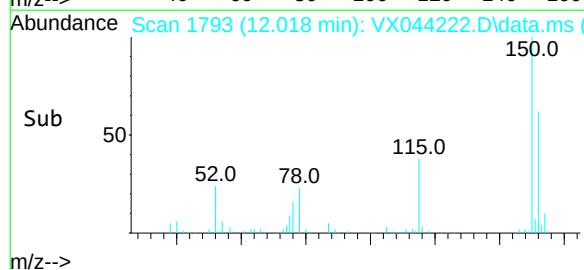
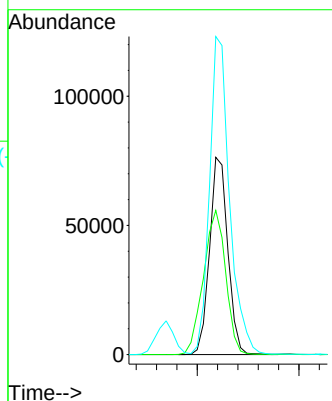
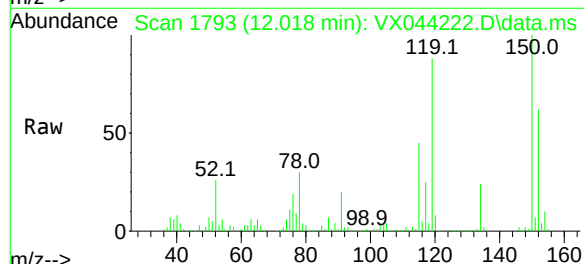
RT: 12.018 min Scan# 1793

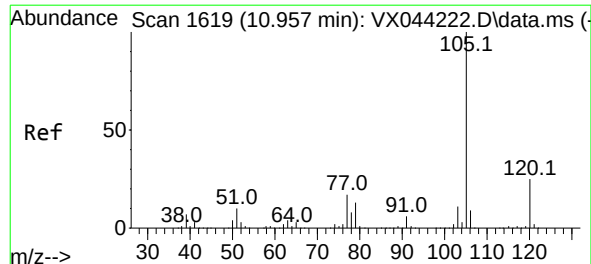
Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Tgt Ion:	152	Resp:	95227
Ion Ratio	Lower	Upper	
152	100		
115	88.9	44.5	133.3
150	176.9	0.0	353.8





#73

Isopropylbenzene

Concen: 51.100 ug/l

RT: 10.957 min Scan# 1619

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 105 Resp: 372519

Ion Ratio Lower Upper

105 100

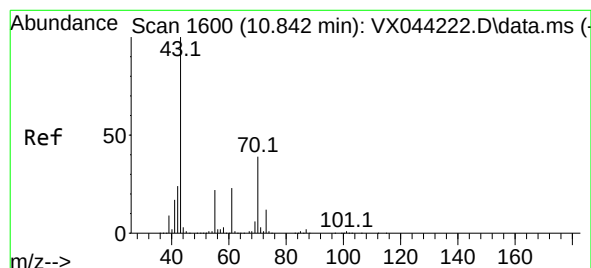
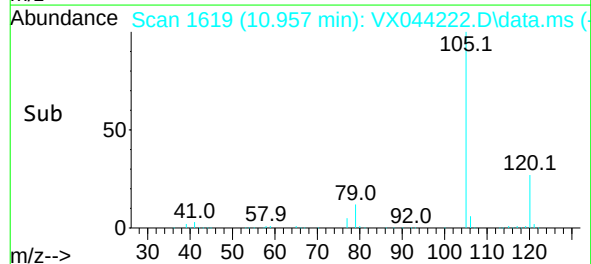
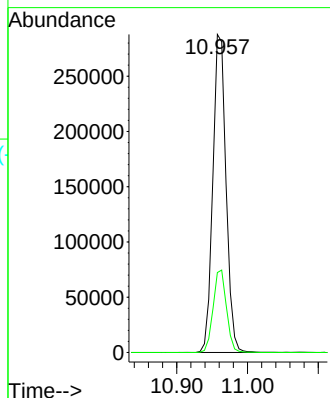
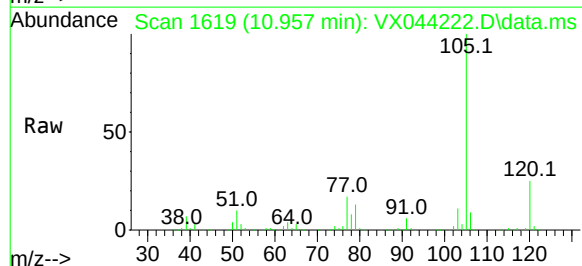
120 26.2 13.1 39.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#74

N-ethyl acetate

Concen: 54.166 ug/l

RT: 10.842 min Scan# 1600

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 182491

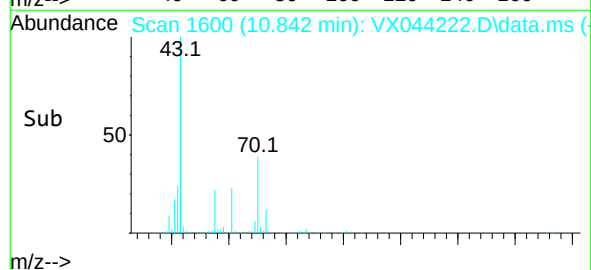
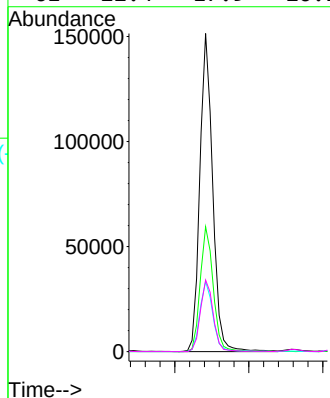
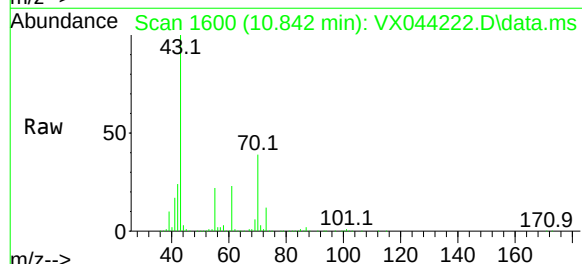
Ion Ratio Lower Upper

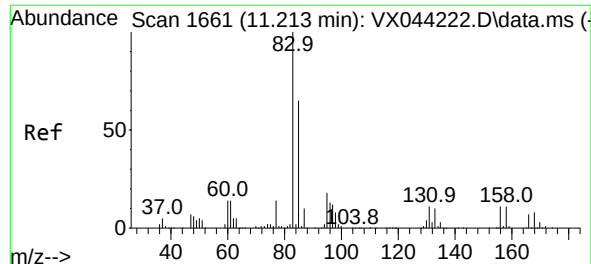
43 100

70 39.9 31.9 47.9

55 22.4 17.9 26.9

61 22.4 17.9 26.9





#75

1,1,2,2-Tetrachloroethane

Concen: 50.233 ug/l

RT: 11.213 min Scan# 1661

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

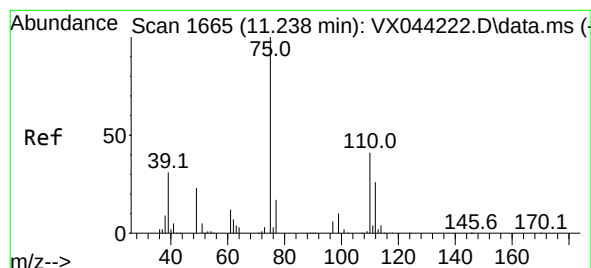
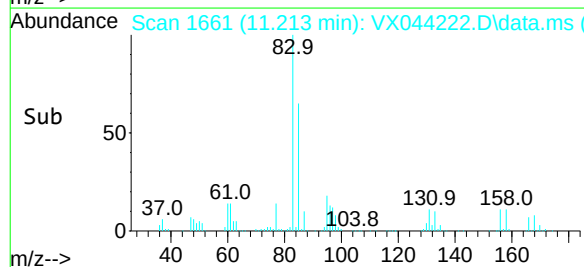
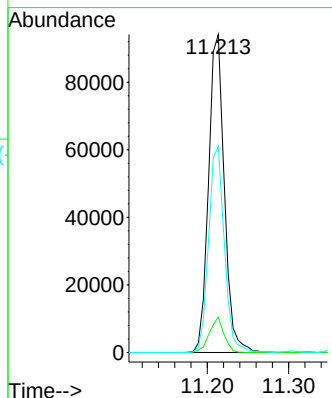
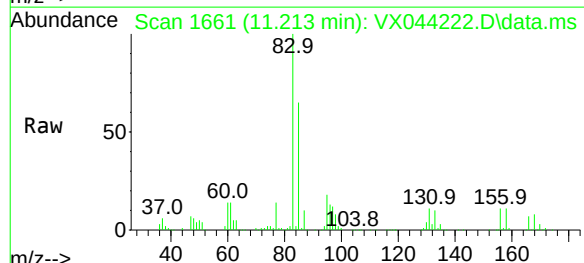
VSTDICCC050

Tgt Ion:	83	Resp:	127193
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	64.9	32.5	97.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#76

1,2,3-Trichloropropane

Concen: 49.518 ug/l m

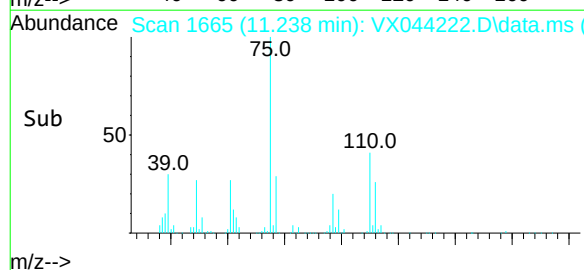
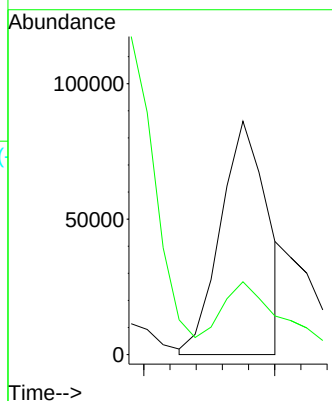
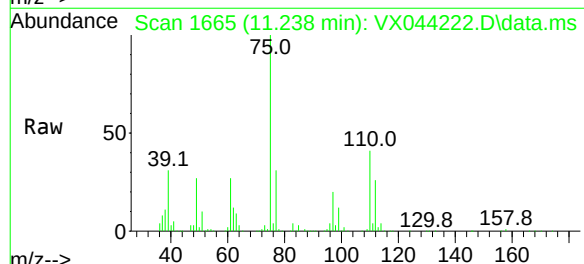
RT: 11.238 min Scan# 1665

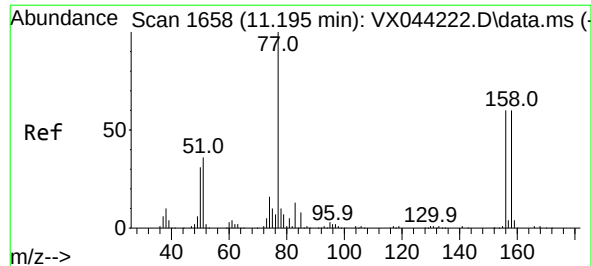
Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Tgt Ion:	75	Resp:	107003
Ion	Ratio	Lower	Upper
75	100		
77	41.8	20.9	62.7





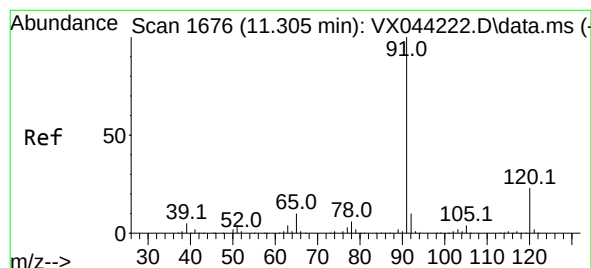
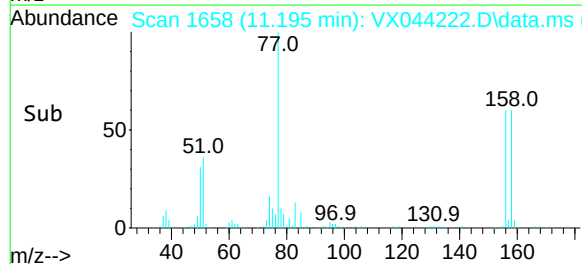
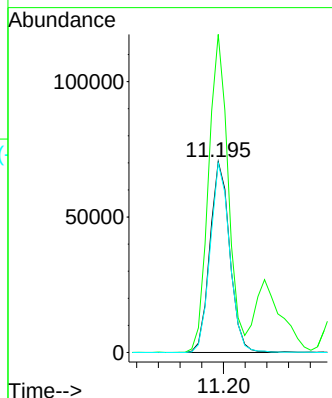
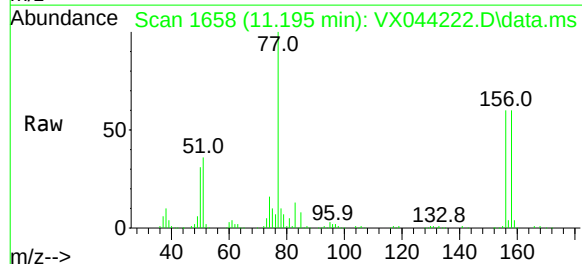
#77
Bromobenzene
Concen: 50.734 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 156 Resp: 89687
Ion Ratio Lower Upper
156 100
77 165.2 82.6 247.8
158 97.6 48.8 146.4

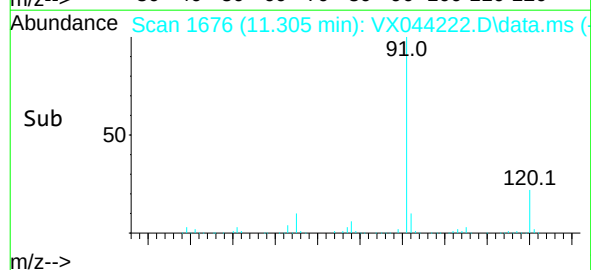
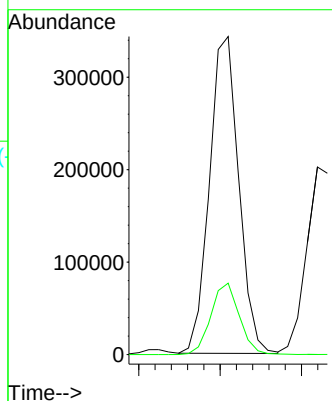
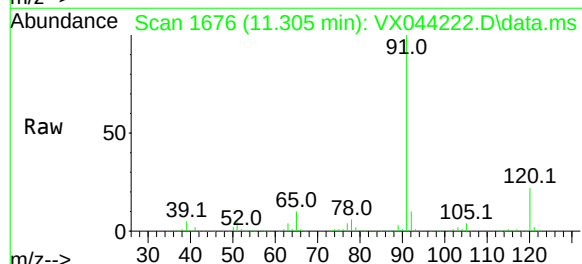
Manual Integrations
APPROVED

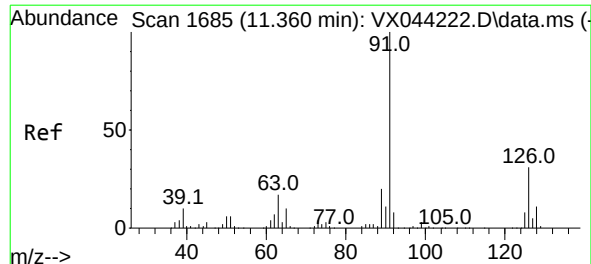
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#78
n-propylbenzene
Concen: 53.211 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 91 Resp: 428741
Ion Ratio Lower Upper
91 100
120 22.0 11.0 33.0





#79

2-Chlorotoluene

Concen: 50.634 ug/l

RT: 11.360 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 263849

Ion Ratio Lower Upper

91 100

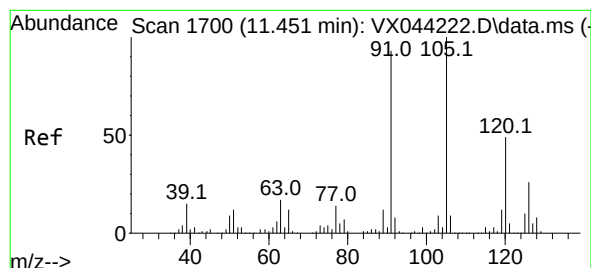
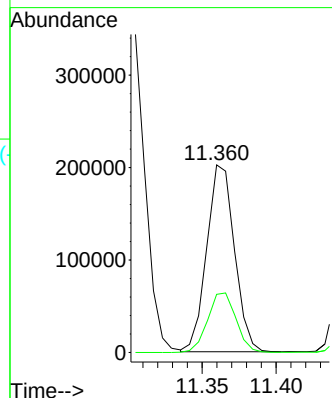
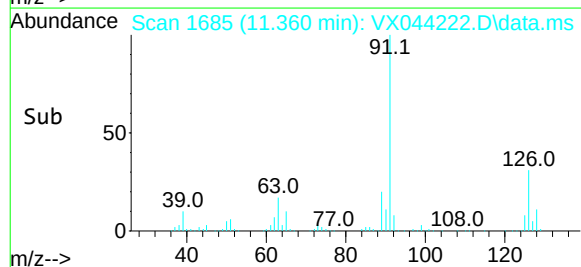
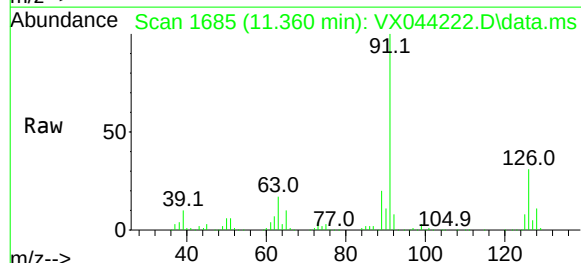
126 32.7 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#80

1,3,5-Trimethylbenzene

Concen: 52.102 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX044222.D

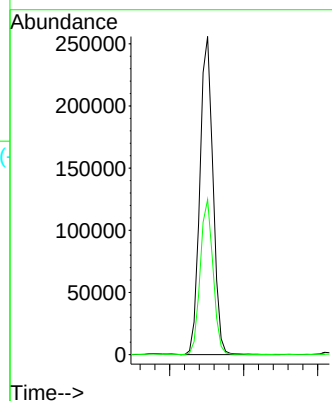
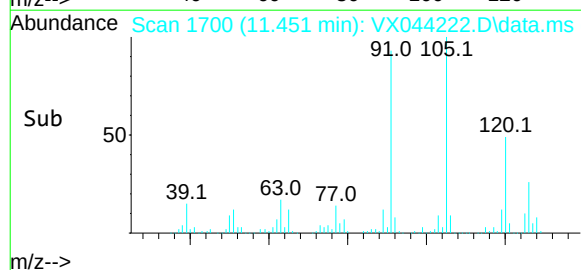
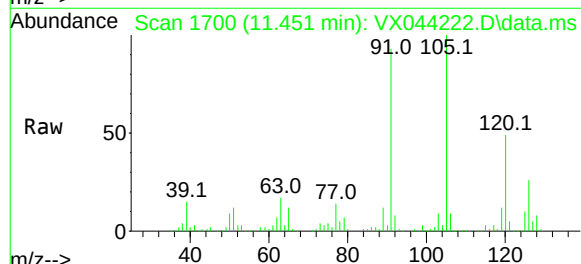
Acq: 11 Dec 2024 12:14

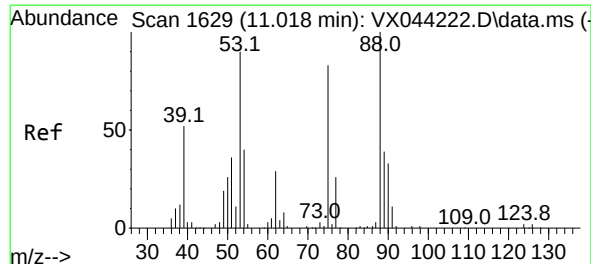
Tgt Ion:105 Resp: 314986

Ion Ratio Lower Upper

105 100

120 47.6 23.8 71.4





#81

trans-1,4-Dichloro-2-butene

Concen: 47.628 ug/l

RT: 11.018 min Scan# 1629

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

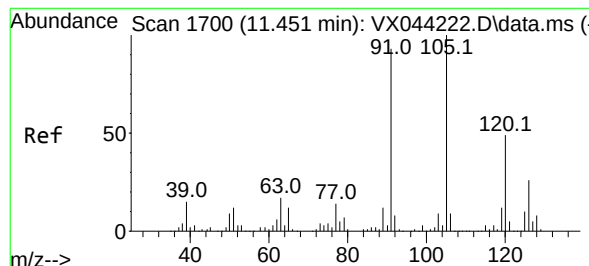
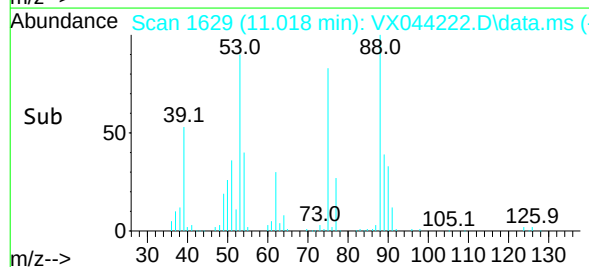
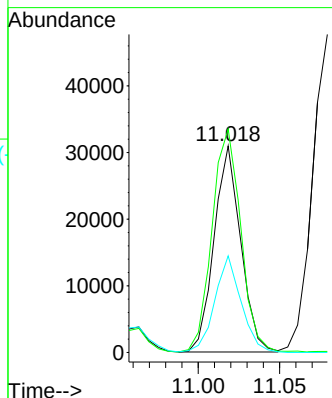
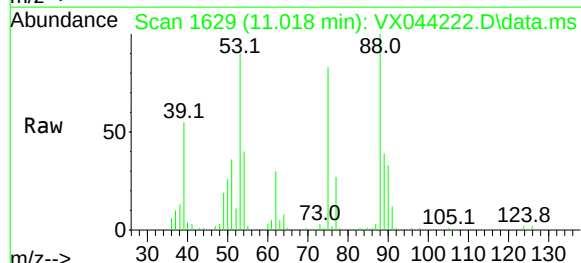
VSTDICCC050

Tgt Ion:	75	Resp:	35119
Ion	Ratio	Lower	Upper
75	100		
53	117.0	93.6	140.4
89	46.6	37.3	55.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#82

4-Chlorotoluene

Concen: 51.387 ug/l

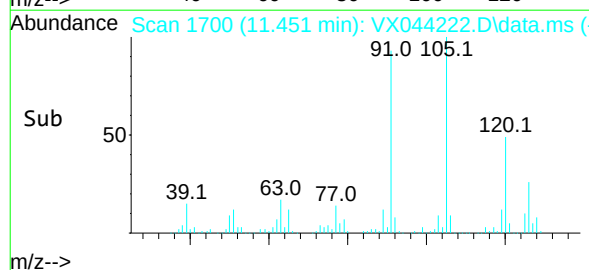
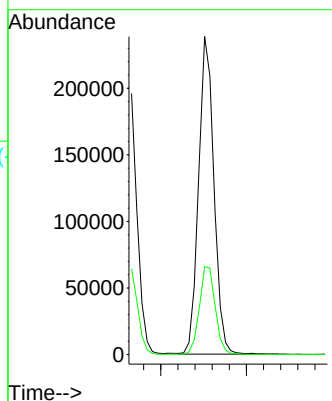
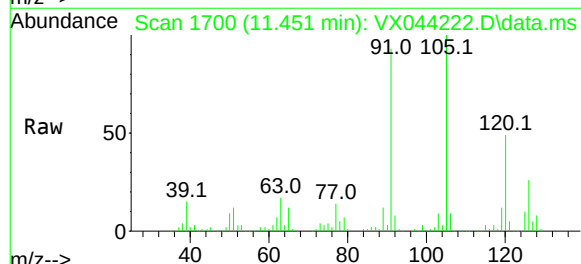
RT: 11.451 min Scan# 1700

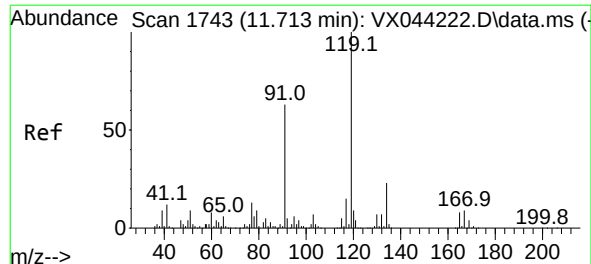
Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Tgt Ion:	91	Resp:	296520
Ion	Ratio	Lower	Upper
91	100		
126	29.0	14.5	43.5





#83

tert-Butylbenzene

Concen: 51.940 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:119 Resp: 310320

Ion Ratio Lower Upper

119 100

91 61.7 30.9 92.5

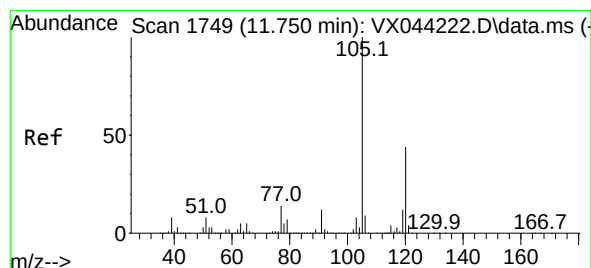
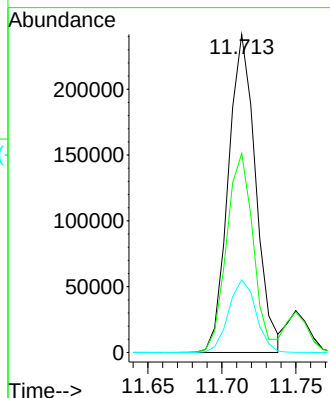
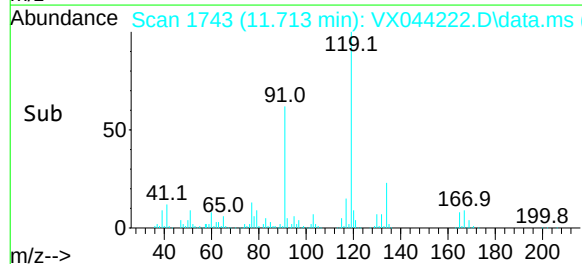
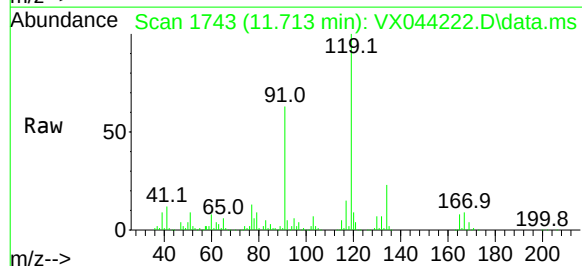
134 22.9 11.5 34.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#84

1,2,4-Trimethylbenzene

Concen: 52.776 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX044222.D

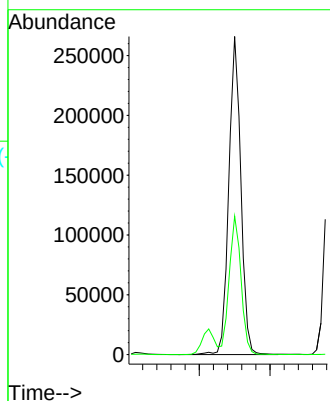
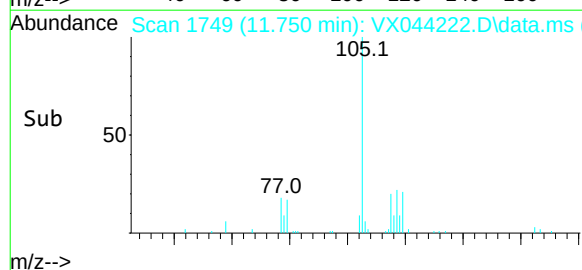
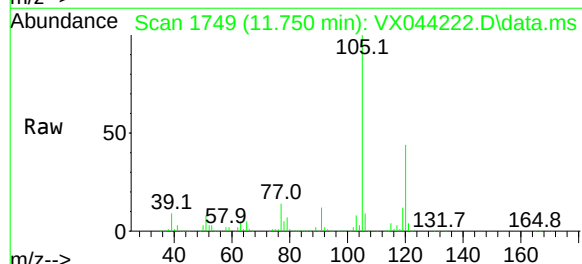
Acq: 11 Dec 2024 12:14

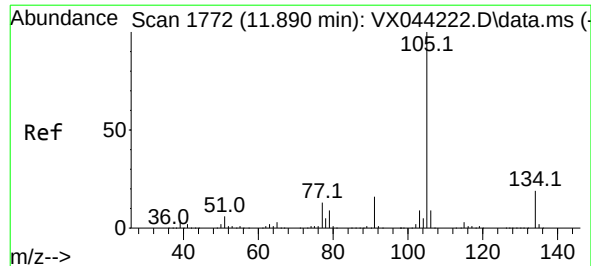
Tgt Ion:105 Resp: 313338

Ion Ratio Lower Upper

105 100

120 43.4 21.7 65.1





#85

sec-Butylbenzene

Concen: 52.329 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:105 Resp: 379552

Ion Ratio Lower Upper

105 100

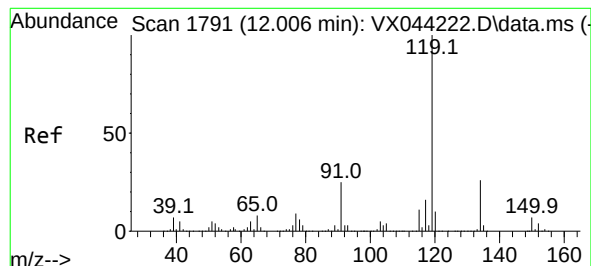
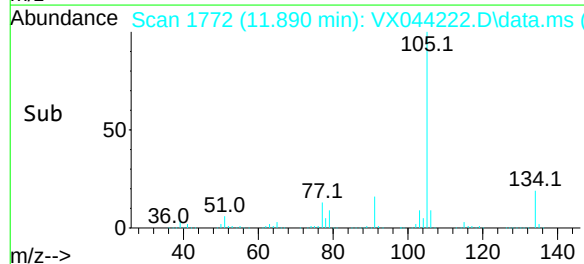
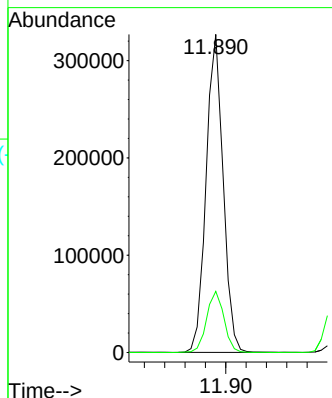
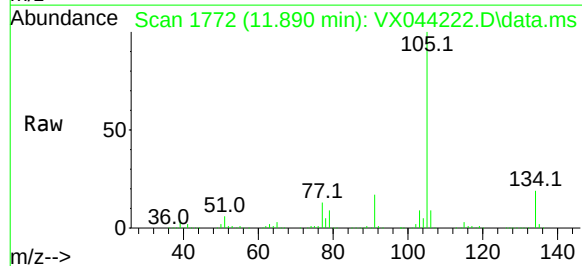
134 19.6 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#86

p-Isopropyltoluene

Concen: 52.796 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

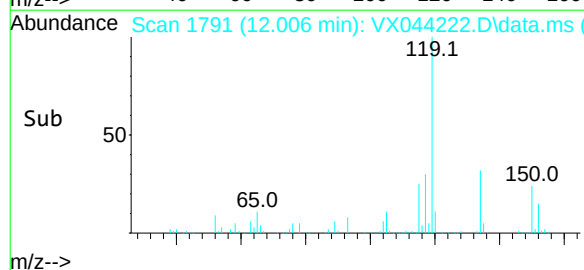
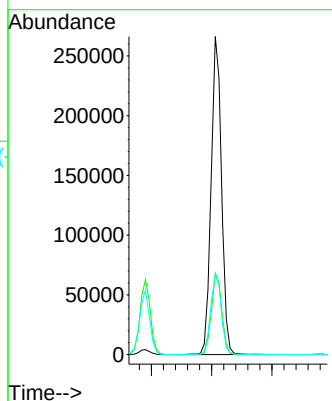
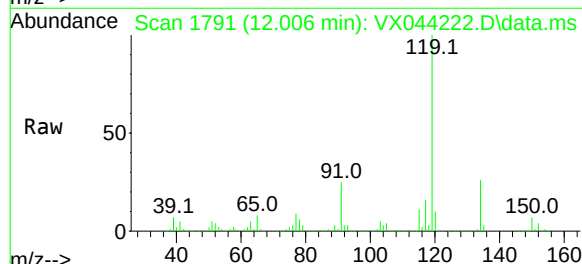
Tgt Ion:119 Resp: 318721

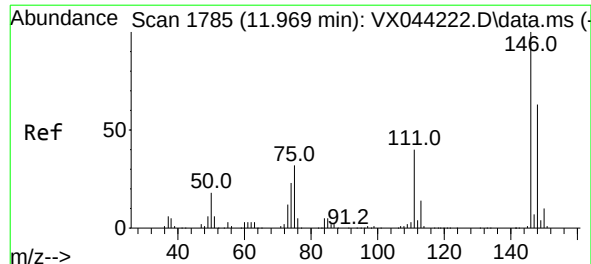
Ion Ratio Lower Upper

119 100

134 25.6 12.8 38.4

91 26.0 13.0 39.0





#87

1,3-Dichlorobenzene

Concen: 51.887 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

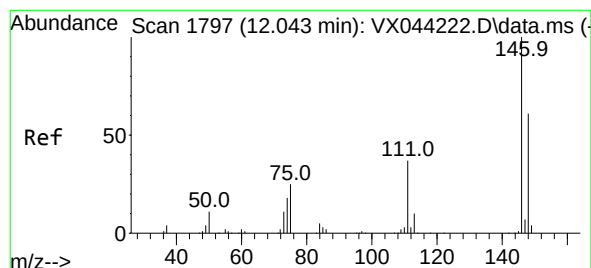
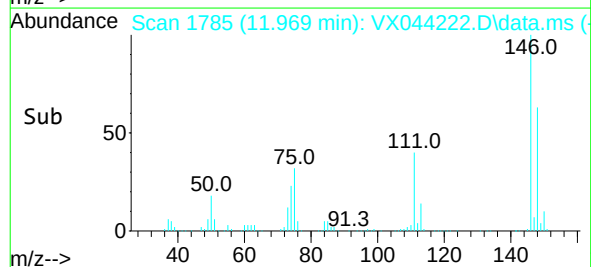
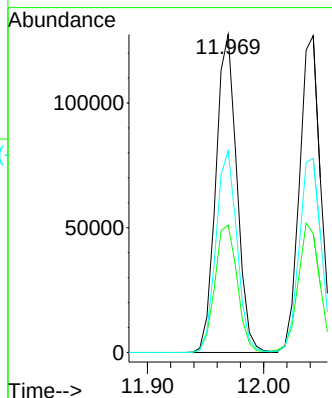
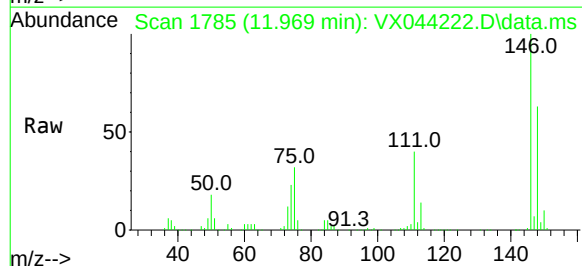
VSTDICCC050

Tgt Ion:	146	Resp:	160223
Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.4	64.2
148	63.4	31.7	95.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#88

1,4-Dichlorobenzene

Concen: 50.171 ug/l

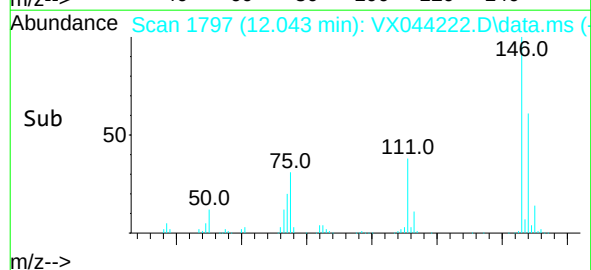
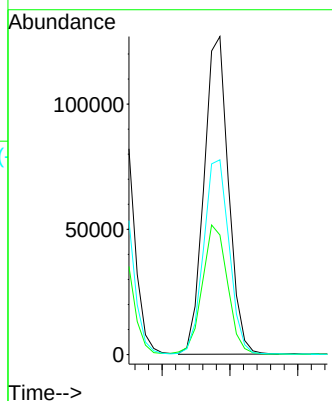
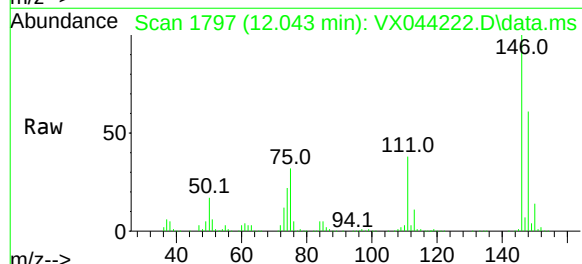
RT: 12.043 min Scan# 1797

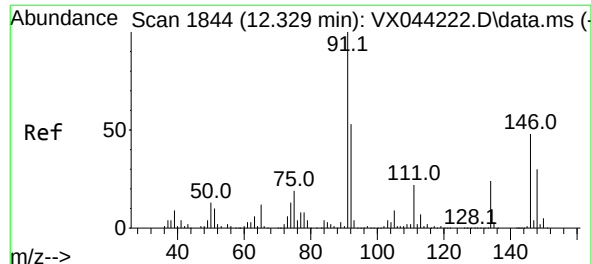
Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Tgt Ion:	146	Resp:	159258
Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.0	63.0
148	64.5	32.3	96.8





#89

n-Butylbenzene

Concen: 53.354 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 270840

Ion Ratio Lower Upper

91 100

92 53.1 26.6 79.7

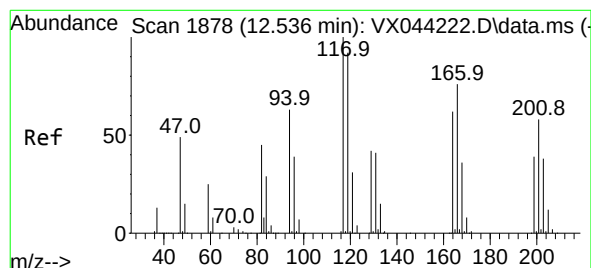
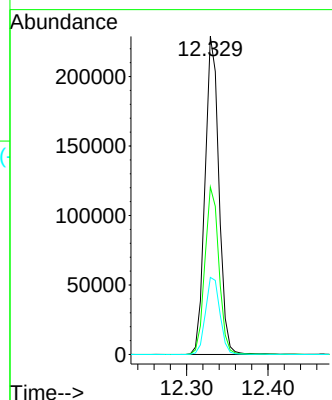
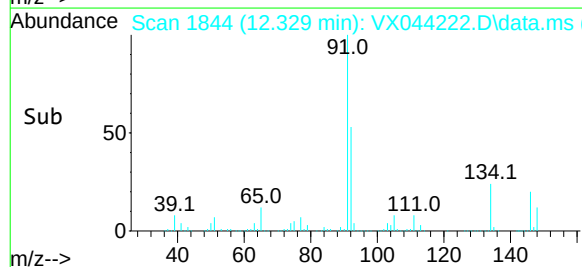
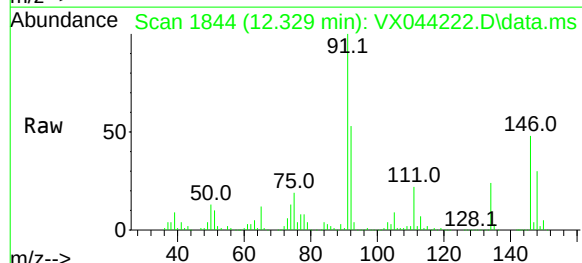
134 25.2 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#90

Hexachloroethane

Concen: 54.813 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX044222.D

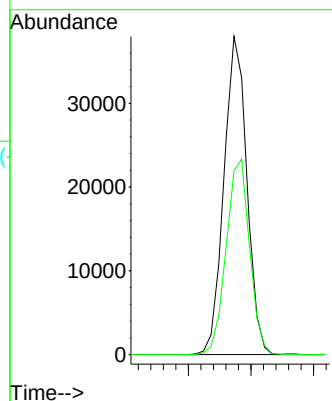
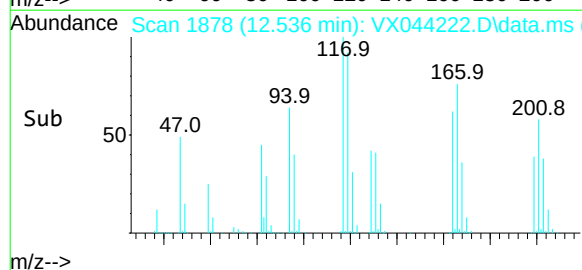
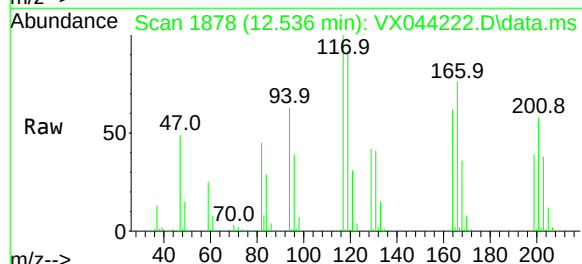
Acq: 11 Dec 2024 12:14

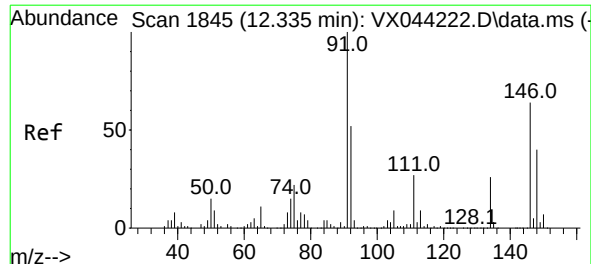
Tgt Ion:117 Resp: 48303

Ion Ratio Lower Upper

117 100

201 62.8 31.4 94.2





#91

1,2-Dichlorobenzene

Concen: 51.256 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 146 Resp: 164342

Ion Ratio Lower Upper

146 100

111 42.9 21.4 64.3

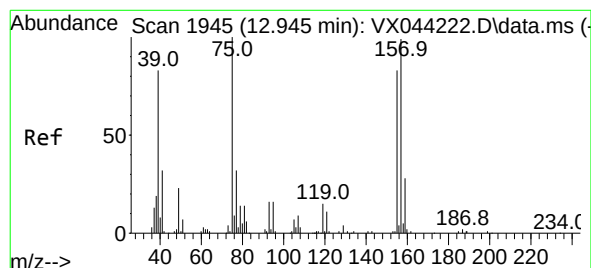
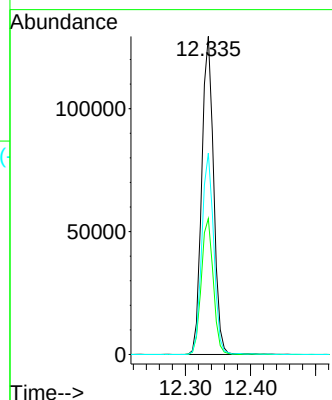
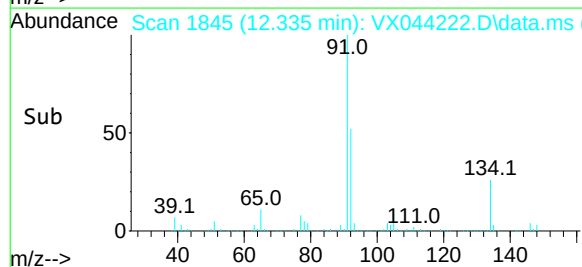
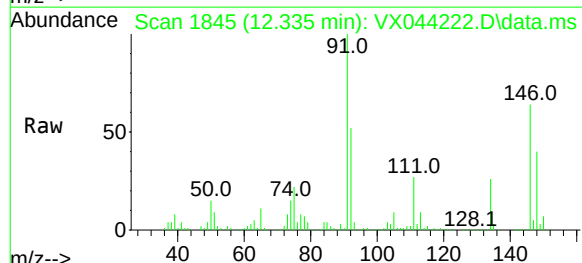
148 63.3 31.6 95.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 52.951 ug/l

RT: 12.945 min Scan# 1945

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

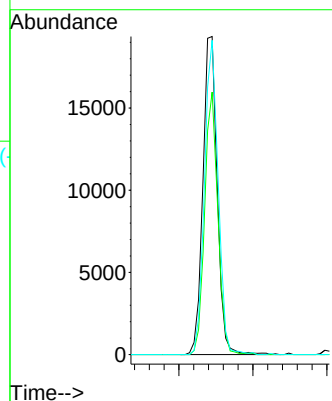
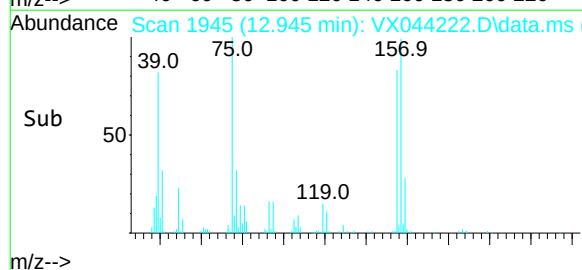
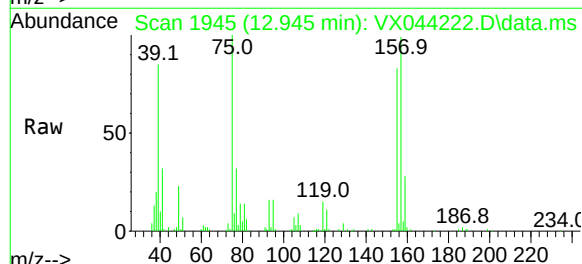
Tgt Ion: 75 Resp: 26027

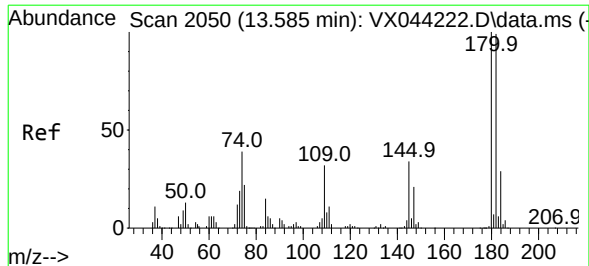
Ion Ratio Lower Upper

75 100

155 76.2 38.1 114.3

157 94.4 47.2 141.6





#93

1,2,4-Trichlorobenzene

Concen: 53.005 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

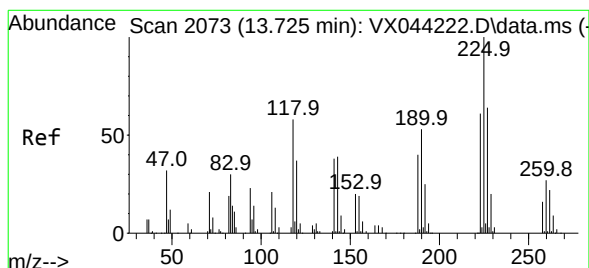
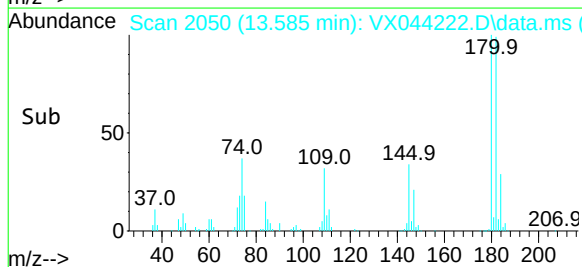
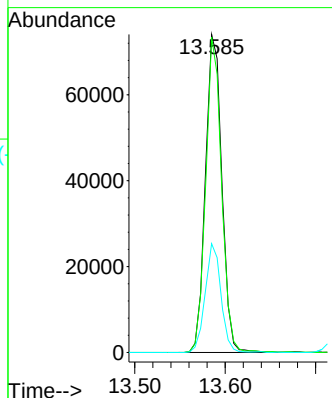
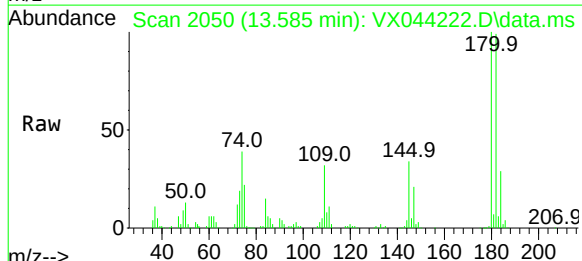
ClientSampleId :

VSTDICCC050

Tgt Ion:	180	Resp:	93173
Ion Ratio	Lower	Upper	
180	100		
182	96.1	48.0	144.2
145	33.1	16.6	49.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#94

Hexachlorobutadiene

Concen: 49.744 ug/l

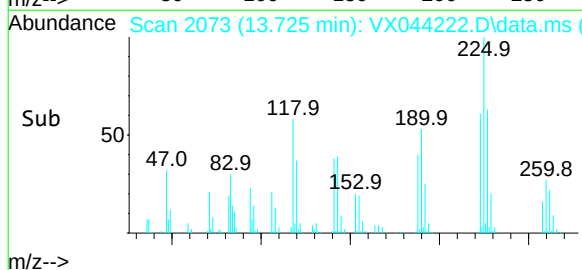
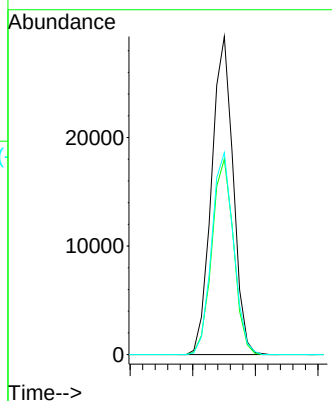
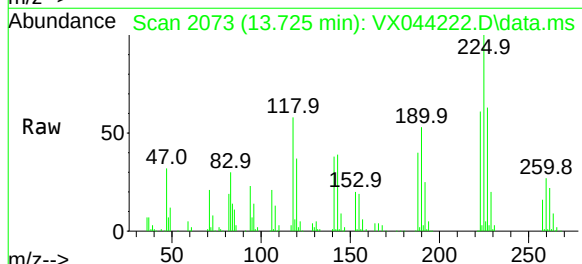
RT: 13.725 min Scan# 2073

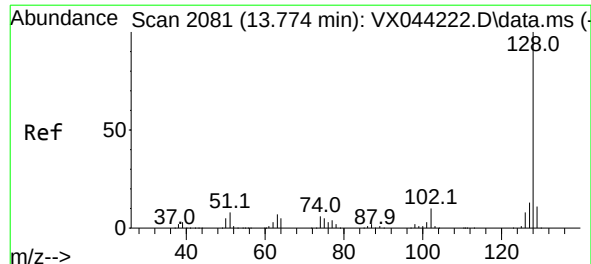
Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Tgt Ion:	225	Resp:	35172
Ion Ratio	Lower	Upper	
225	100		
223	61.6	30.8	92.4
227	64.2	32.1	96.3





#95

Naphthalene

Concen: 53.230 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

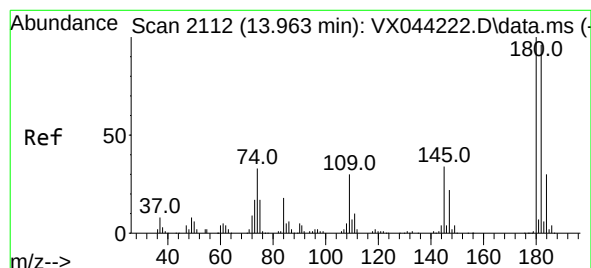
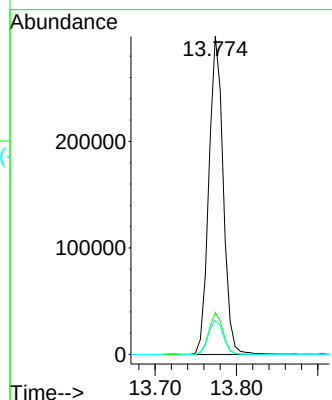
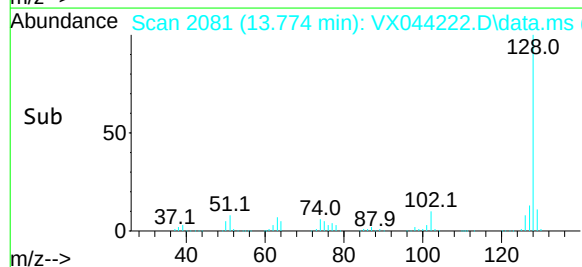
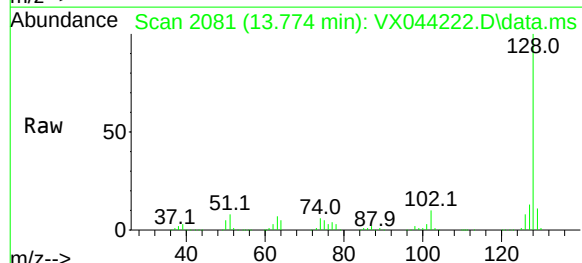
ClientSampleId :

VSTDICCC050

Tgt Ion:	128	Resp:	365234
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	11.2	9.0	13.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#96

1,2,3-Trichlorobenzene

Concen: 52.027 ug/l

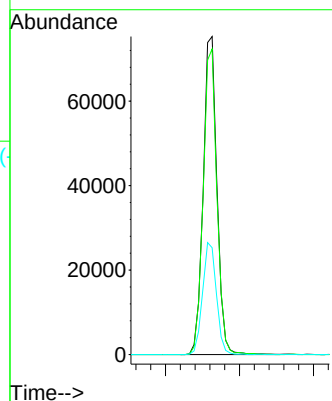
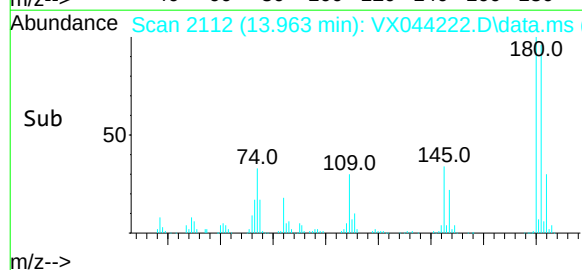
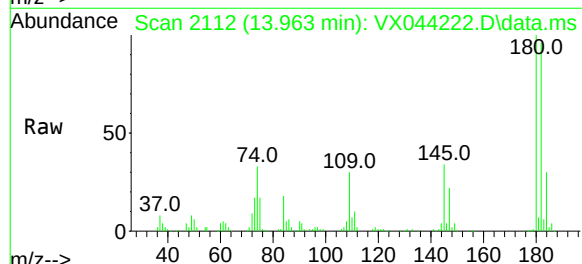
RT: 13.963 min Scan# 2112

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Tgt Ion:	180	Resp:	97000
Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.0	144.0
145	35.4	17.7	53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044223.D
Acq On : 11 Dec 2024 12:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Dec 12 04:15:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	130101	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	235738	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	209164	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	97670	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.952	65	224292	98.326	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	196.660%#	
35) Dibromofluoromethane	5.379	113	169582	103.866	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	207.740%#	
50) Toluene-d8	8.647	98	579477	105.201	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	210.400%#	
62) 4-Bromofluorobenzene	11.079	95	203694	105.830	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	211.660%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.167	85	193785	96.329	ug/l	97
3) Chloromethane	1.295	50	186167	96.774	ug/l	99
4) Vinyl Chloride	1.374	62	187739	93.675	ug/l	99
5) Bromomethane	1.593	94	137770	96.897	ug/l	97
6) Chloroethane	1.660	64	109912	88.074	ug/l	95
7) Trichlorofluoromethane	1.862	101	384622	98.030	ug/l	98
8) Diethyl Ether	2.136	74	124039	92.618	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	149151	93.944	ug/l	99
10) Methyl Iodide	2.441	142	203545	97.275	ug/l	100
11) Tert butyl alcohol	3.008	59	173139	539.406	ug/l	100
12) 1,1-Dichloroethene	2.307	96	144268	98.930	ug/l	100
13) Acrolein	2.240	56	226037	485.718	ug/l	99
14) Allyl chloride	2.654	41	244602	100.703	ug/l	99
15) Acrylonitrile	3.069	53	446747	501.661	ug/l	99
16) Acetone	2.392	43	452955	487.065	ug/l	97
17) Carbon Disulfide	2.496	76	320036	115.453	ug/l	99
18) Methyl Acetate	2.709	43	230998	96.338	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	564545	99.205	ug/l	99
20) Methylene Chloride	2.782	84	168498	96.466	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	154797	99.880	ug/l	98
22) Diisopropyl ether	3.764	45	538742	98.498	ug/l	99
23) Vinyl Acetate	3.721	43	2395923	538.801	ug/l	100
24) 1,1-Dichloroethane	3.605	63	304626	99.915	ug/l	99
25) 2-Butanone	4.568	43	662768	501.306	ug/l	99
26) 2,2-Dichloropropane	4.471	77	258092	104.201	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	190127	96.593	ug/l	99
28) Bromochloromethane	4.891	49	144783	96.842	ug/l	99
29) Tetrahydrofuran	5.007	42	412666	486.290	ug/l	99
30) Chloroform	5.093	83	331047	96.642	ug/l	98
31) Cyclohexane	5.458	56	239879	97.433	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	291065	102.363	ug/l	99
36) 1,1-Dichloropropene	5.684	75	209732	99.376	ug/l	98
37) Ethyl Acetate	4.721	43	266307	102.079	ug/l	100
38) Carbon Tetrachloride	5.672	117	236869	104.249	ug/l	96
39) Methylcyclohexane	7.373	83	259368	102.800	ug/l	98
40) Benzene	6.032	78	638055	99.575	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044223.D
 Acq On : 11 Dec 2024 12:37
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:15:58 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M

Quant Title : SW846 8260

QLast Update : Thu Dec 12 04:11:59 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	140375	101.332	ug/l	99
42) 1,2-Dichloroethane	6.086	62	261991	99.255	ug/l	99
43) Isopropyl Acetate	6.342	43	427893	104.939	ug/l	99
44) Trichloroethene	7.123	130	158990	99.497	ug/l	99
45) 1,2-Dichloropropane	7.428	63	160913	98.293	ug/l	97
46) Dibromomethane	7.580	93	130316	102.607	ug/l	99
47) Bromodichloromethane	7.818	83	244401	111.423	ug/l	100
48) Methyl methacrylate	7.696	41	203116	102.618	ug/l	99
49) 1,4-Dioxane	7.665	88	73434m	2170.871	ug/l	
51) 4-Methyl-2-Pentanone	8.574	43	1322678	504.496	ug/l	99
52) Toluene	8.714	92	396383	98.506	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	248092	99.321	ug/l	95
54) cis-1,3-Dichloropropene	8.366	75	263014	110.127	ug/l	98
55) 1,1,2-Trichloroethane	9.153	97	157366	98.441	ug/l	98
56) Ethyl methacrylate	9.116	69	271146	107.442	ug/l	99
57) 1,3-Dichloropropane	9.305	76	274642	98.704	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	671233	527.342	ug/l	100
59) 2-Hexanone	9.433	43	989466	521.401	ug/l	99
60) Dibromochloromethane	9.519	129	178135	99.480	ug/l	99
61) 1,2-Dibromoethane	9.610	107	171458	105.371	ug/l	97
64) Tetrachloroethene	9.269	164	130678	94.131	ug/l	97
65) Chlorobenzene	10.080	112	433179	96.650	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	153882	106.831	ug/l	99
67) Ethyl Benzene	10.195	91	765930	98.906	ug/l	97
68) m/p-Xylenes	10.299	106	571648	201.171	ug/l	99
69) o-Xylene	10.640	106	280603	97.597	ug/l	100
70) Styrene	10.653	104	480077	104.159	ug/l	97
71) Bromoform	10.799	173	112482	99.723	ug/l #	98
73) Isopropylbenzene	10.964	105	731955	97.894	ug/l	99
74) N-amyl acetate	10.842	43	371420	107.485	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.214	83	245395	94.491	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	206786m	93.302	ug/l	
77) Bromobenzene	11.195	156	175647	96.874	ug/l	98
78) n-propylbenzene	11.305	91	836676	101.242	ug/l	99
79) 2-Chlorotoluene	11.366	91	504407	94.377	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	604993	97.570	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	78453	97.165	ug/l	94
82) 4-Chlorotoluene	11.451	91	588197	99.384	ug/l	99
83) tert-Butylbenzene	11.713	119	606738	99.013	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	614999	100.994	ug/l	100
85) sec-Butylbenzene	11.890	105	743098	99.889	ug/l	100
86) p-Isopropyltoluene	12.006	119	624416	100.847	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	317377	100.210	ug/l	99
88) 1,4-Dichlorobenzene	12.043	146	316688	97.271	ug/l	99
89) n-Butylbenzene	12.329	91	564303	108.385	ug/l	99
90) Hexachloroethane	12.536	117	105946	117.218	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	323040	98.232	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	54588	108.279	ug/l	93
93) 1,2,4-Trichlorobenzene	13.585	180	197899	109.766	ug/l	98
94) Hexachlorobutadiene	13.725	225	72453	99.908	ug/l	97
95) Naphthalene	13.774	128	755181	107.308	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	206053	107.754	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044223.D
Acq On : 11 Dec 2024 12:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Dec 12 04:15:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

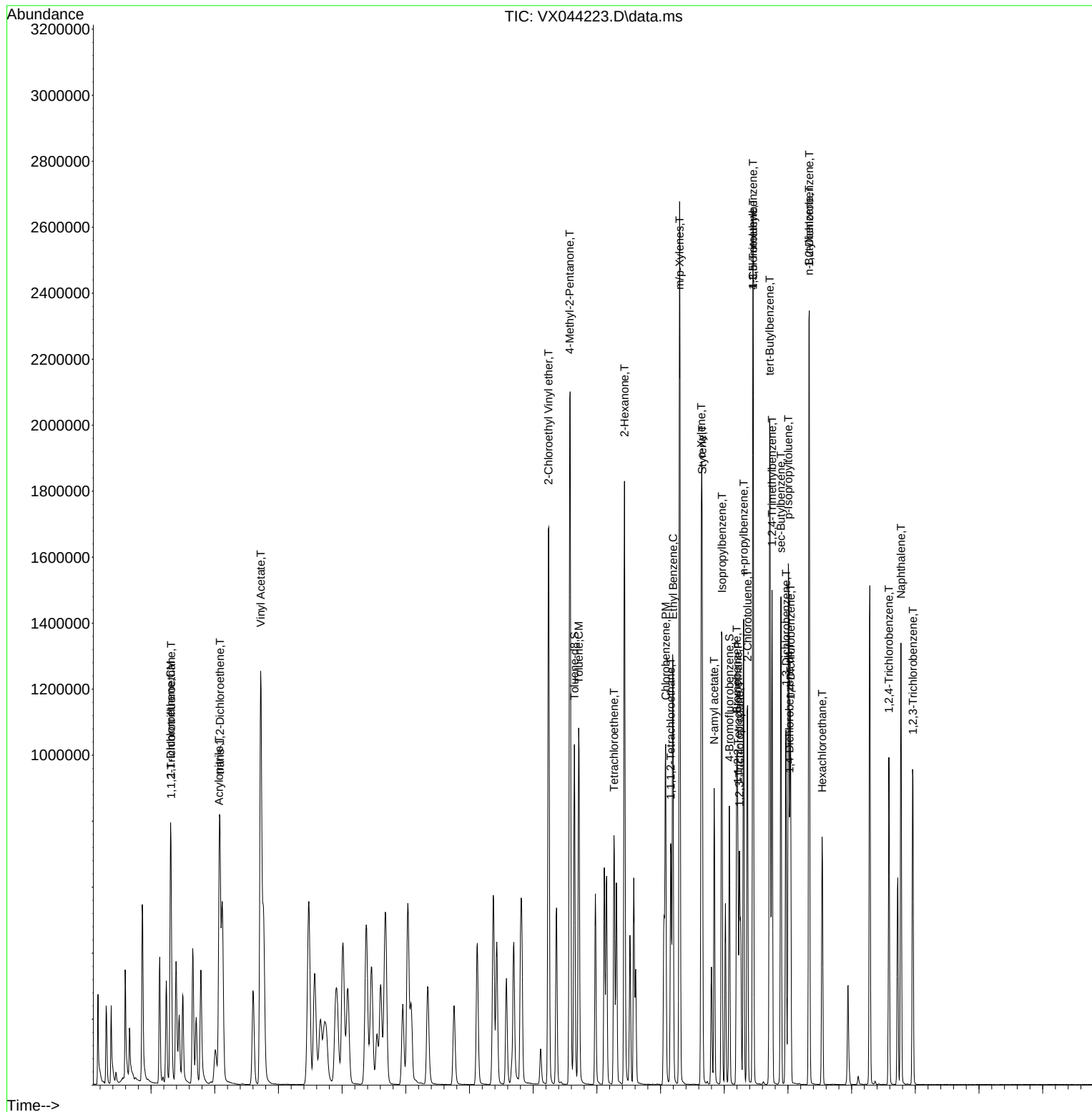
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044223.D
Acq On : 11 Dec 2024 12:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

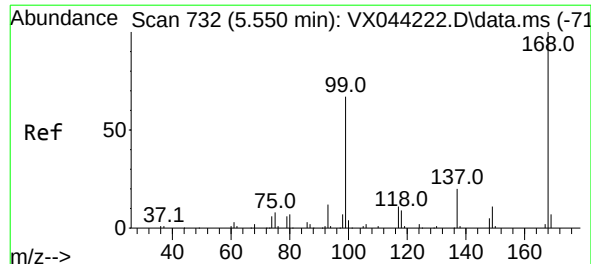
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:15:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.550 min Scan# 73

Delta R.T. -0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 168 Resp: 130101

Ion Ratio Lower Upper

168 100

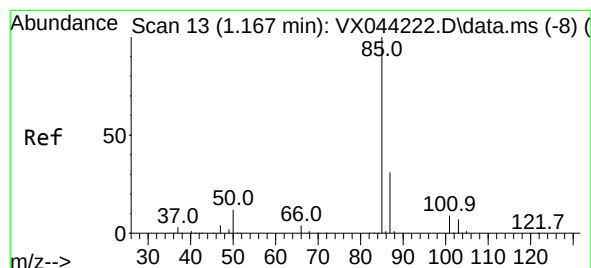
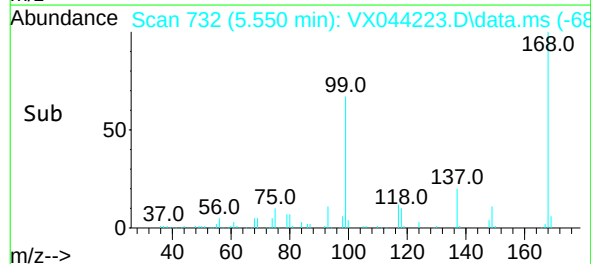
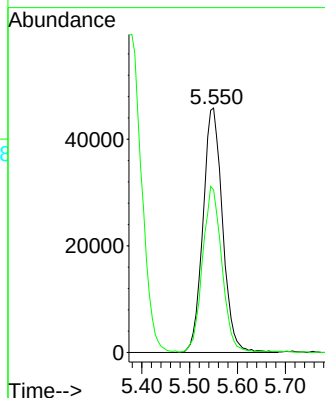
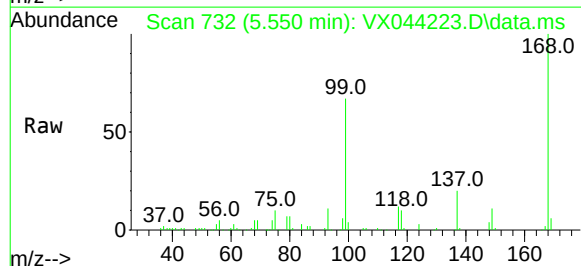
99 66.4 53.4 80.0

Manual Integrations

APPROVED

Reviewed By : John Carlone 12/12/2024

Supervised By : Mahesh Dadoda 12/12/2024



#2

Dichlorodifluoromethane

Concen: 96.329 ug/l

RT: 1.167 min Scan# 13

Delta R.T. 0.000 min

Lab File: VX044223.D

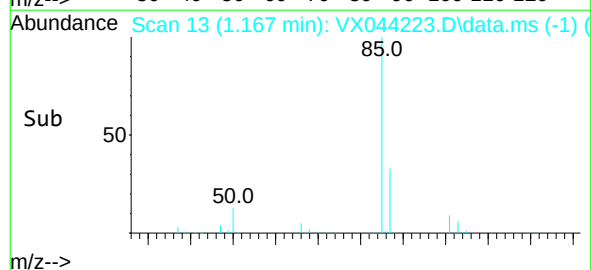
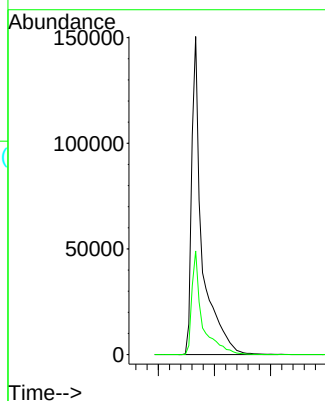
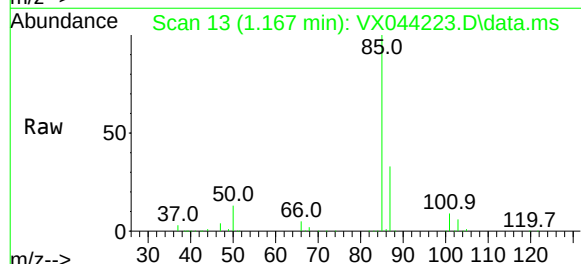
Acq: 11 Dec 2024 12:37

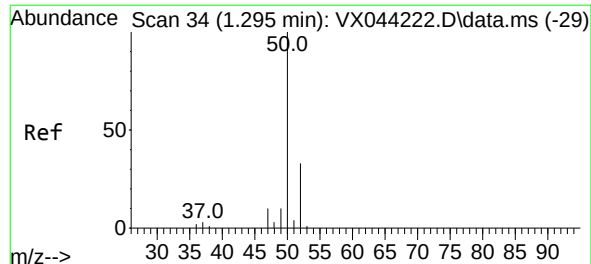
Tgt Ion: 85 Resp: 193785

Ion Ratio Lower Upper

85 100

87 32.6 15.4 46.4





#3

Chloromethane

Concen: 96.774 ug/l

RT: 1.295 min Scan# 34

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 50 Resp: 186167

Ion Ratio Lower Upper

50 100

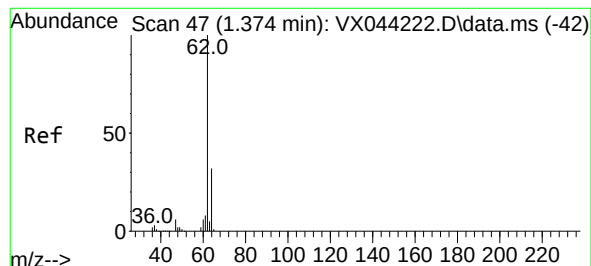
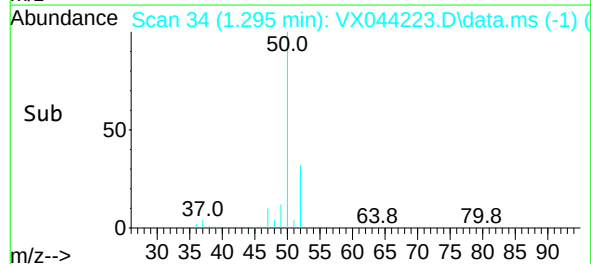
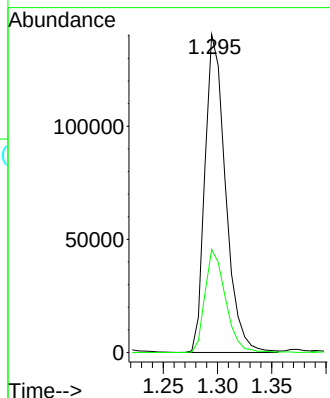
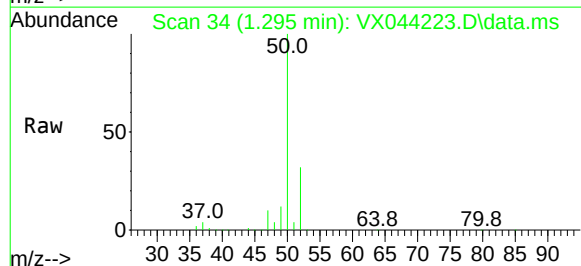
52 32.4 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#4

Vinyl Chloride

Concen: 93.675 ug/l

RT: 1.374 min Scan# 47

Delta R.T. 0.000 min

Lab File: VX044223.D

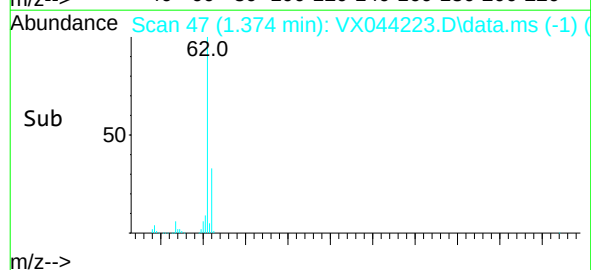
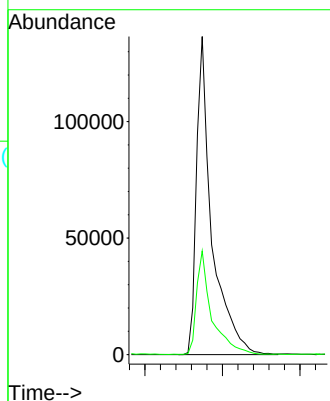
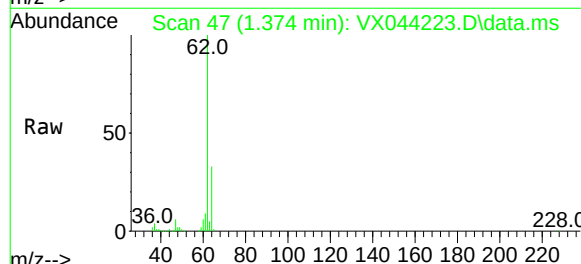
Acq: 11 Dec 2024 12:37

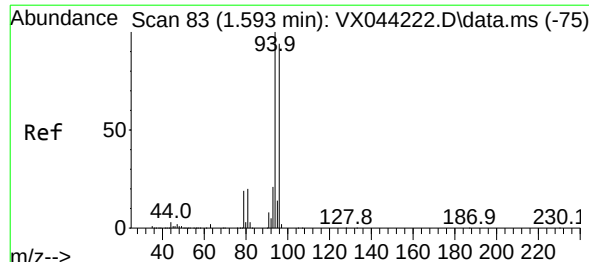
Tgt Ion: 62 Resp: 187739

Ion Ratio Lower Upper

62 100

64 32.5 25.7 38.5





#5

Bromomethane

Concen: 96.897 ug/l

RT: 1.593 min Scan# 83

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 94 Resp: 137776

Ion Ratio Lower Upper

94 100

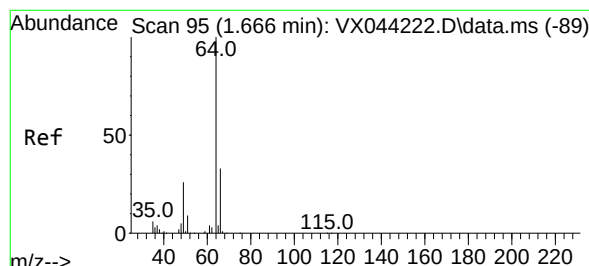
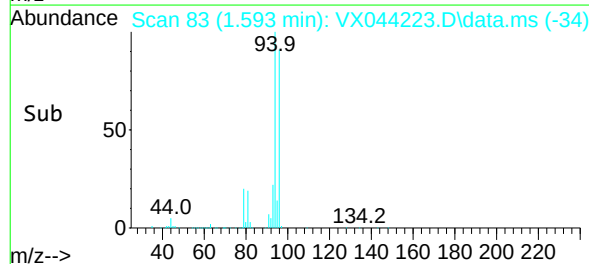
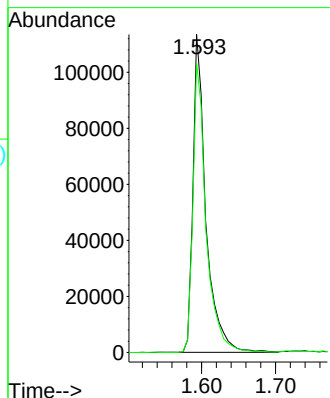
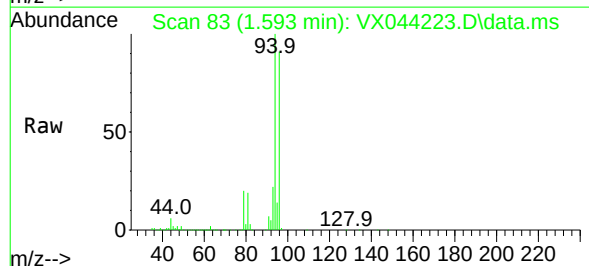
96 91.1 74.9 112.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#6

Chloroethane

Concen: 88.074 ug/l

RT: 1.660 min Scan# 94

Delta R.T. -0.006 min

Lab File: VX044223.D

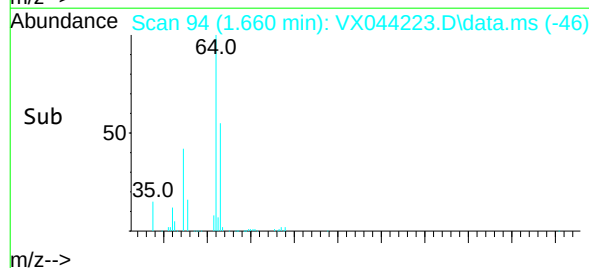
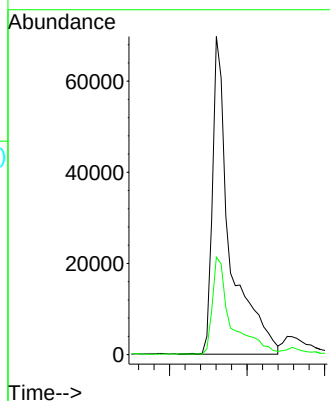
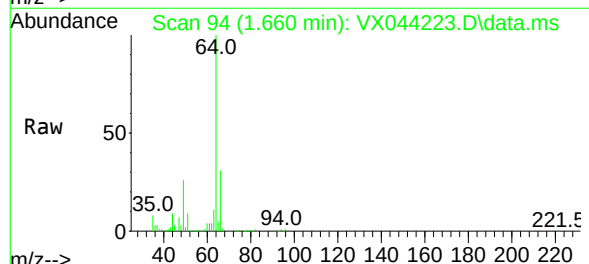
Acq: 11 Dec 2024 12:37

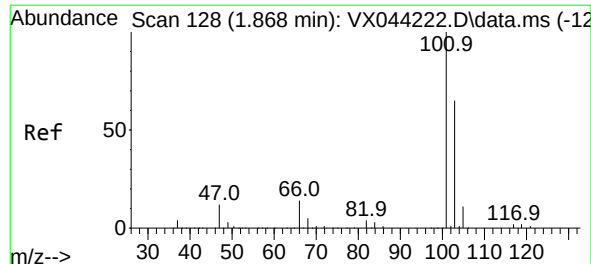
Tgt Ion: 64 Resp: 109912

Ion Ratio Lower Upper

64 100

66 30.5 26.6 39.8





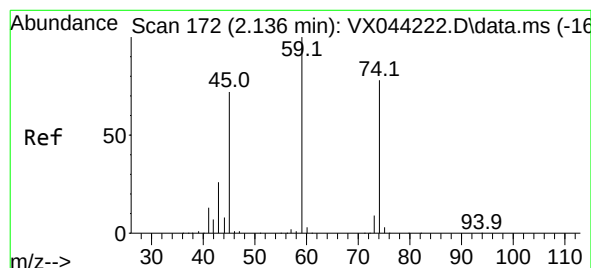
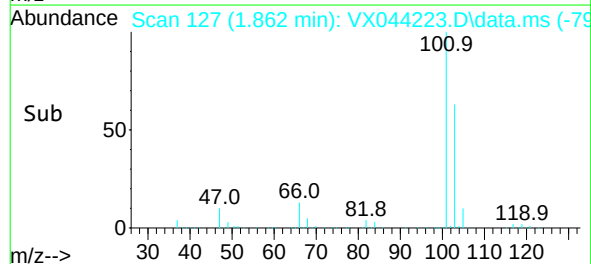
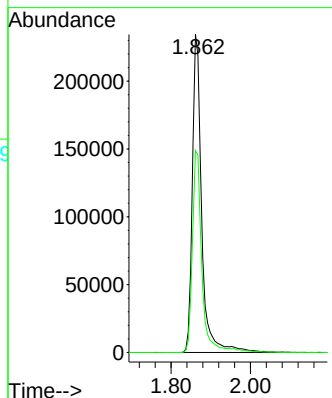
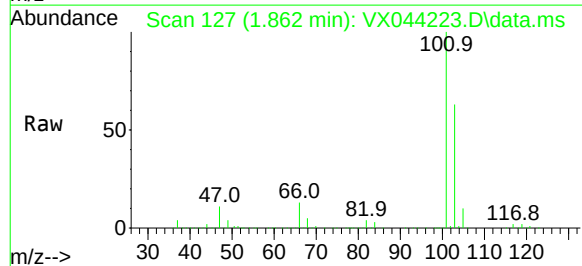
#7
Trichlorofluoromethane
Concen: 98.030 ug/l
RT: 1.862 min Scan# 128
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 384622
Ion Ratio Lower Upper
101 100
103 63.5 51.8 77.8

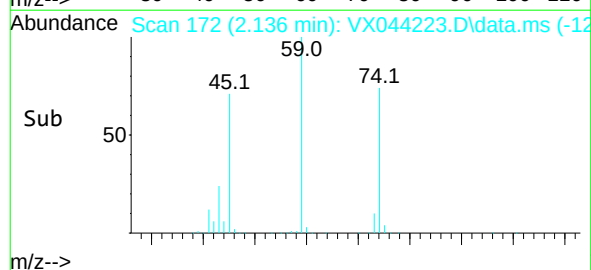
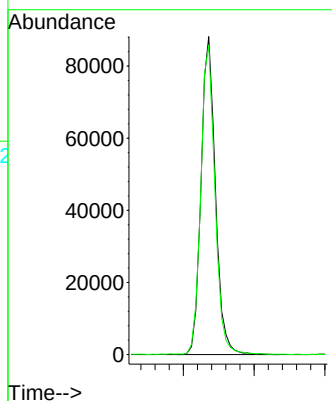
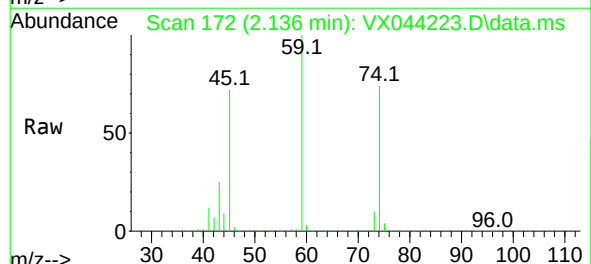
Manual Integrations
APPROVED

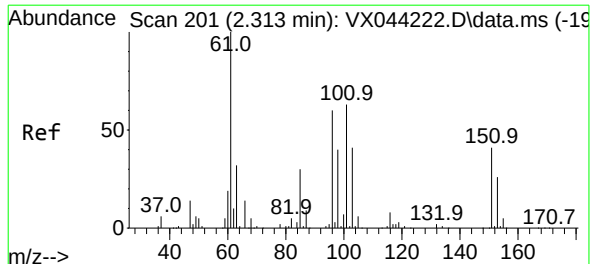
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#8
Diethyl Ether
Concen: 92.618 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 74 Resp: 124039
Ion Ratio Lower Upper
74 100
45 96.3 48.4 145.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 93.944 ug/l

RT: 2.313 min Scan# 201

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

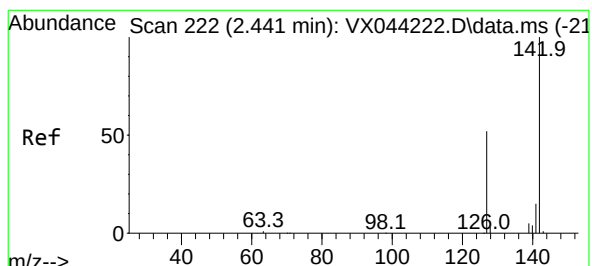
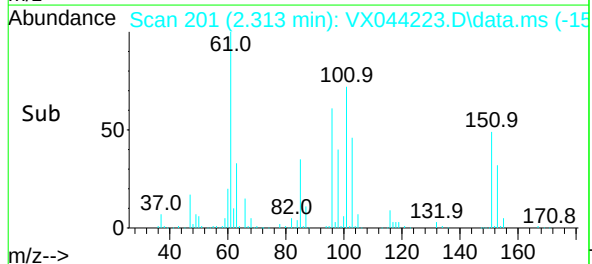
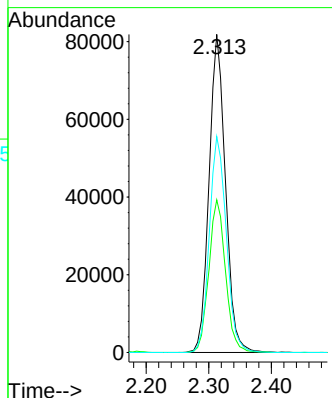
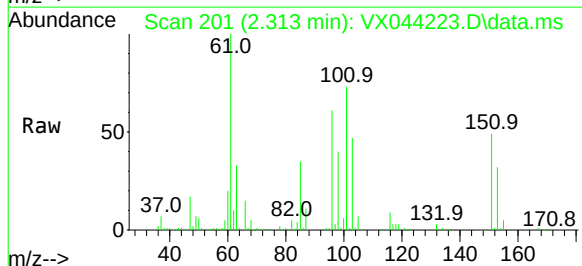
VSTDICC100

Tgt Ion:	101	Resp:	149151
Ion	Ratio	Lower	Upper
101	100		
85	48.9	38.5	57.7
151	70.5	55.8	83.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#10

Methyl Iodide

Concen: 97.275 ug/l

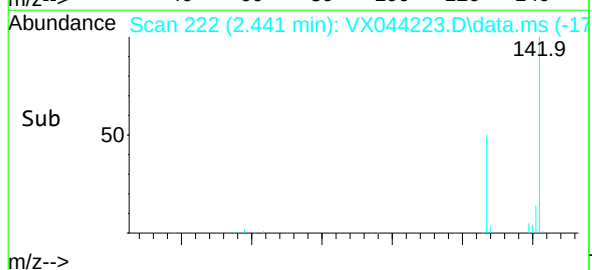
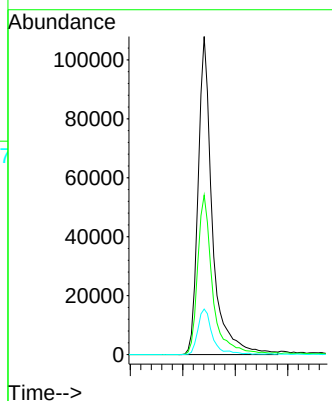
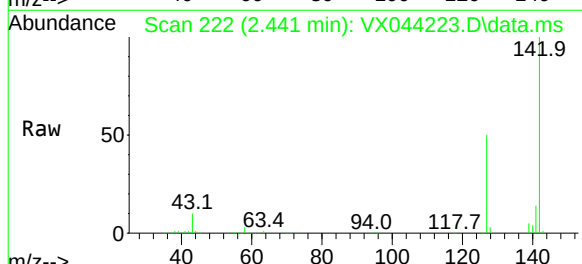
RT: 2.441 min Scan# 222

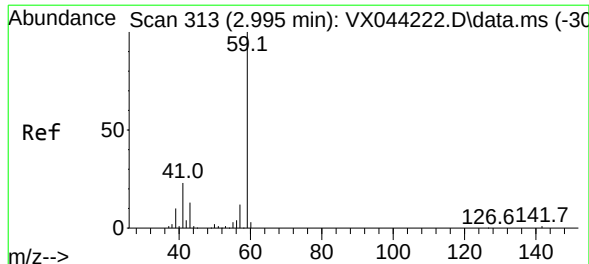
Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Tgt Ion:	142	Resp:	203545
Ion	Ratio	Lower	Upper
142	100		
127	52.4	41.8	62.8
141	14.8	11.5	17.3





#11

Tert butyl alcohol

Concen: 539.406 ug/l

RT: 3.008 min Scan# 31

Delta R.T. 0.012 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 59 Resp: 173139

Ion Ratio Lower Upper

59 100

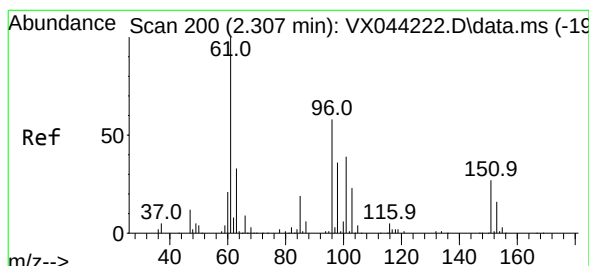
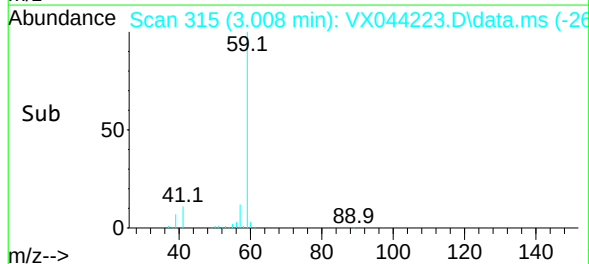
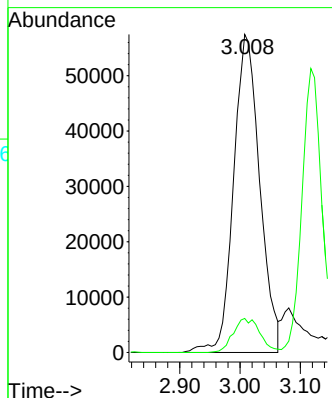
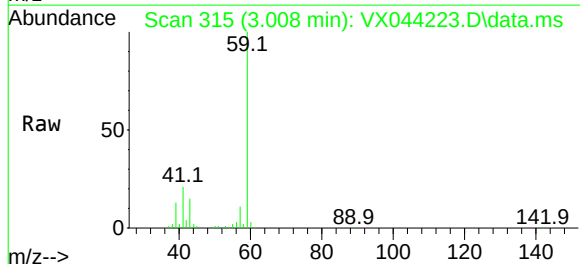
57 11.1 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#12

1,1-Dichloroethene

Concen: 98.930 ug/l

RT: 2.307 min Scan# 200

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

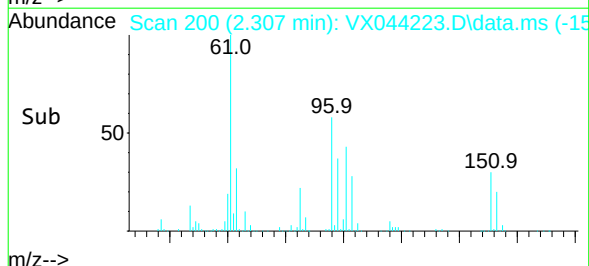
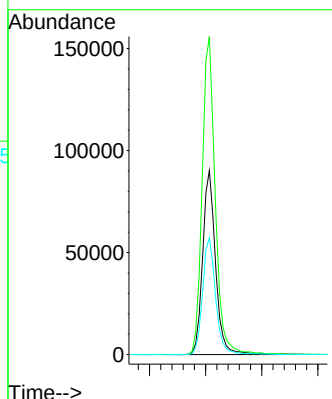
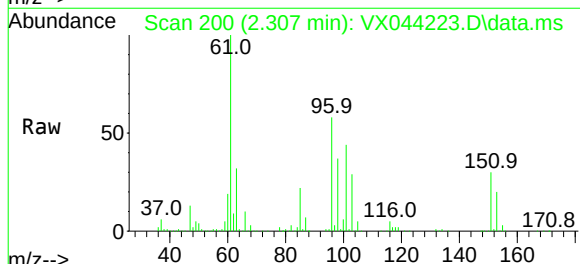
Tgt Ion: 96 Resp: 144268

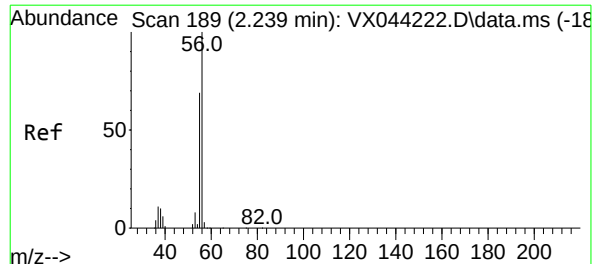
Ion Ratio Lower Upper

96 100

61 172.7 138.0 207.0

98 63.5 50.0 75.0





#13

Acrolein

Concen: 485.718 ug/l

RT: 2.240 min Scan# 189

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 226037

Ion Ratio Lower Upper

56 100

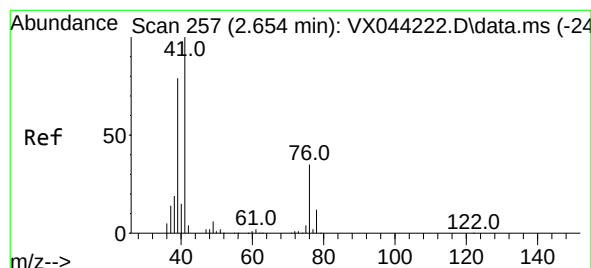
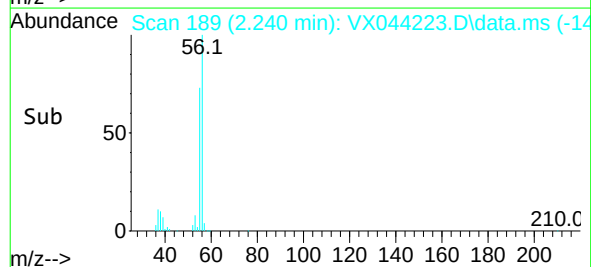
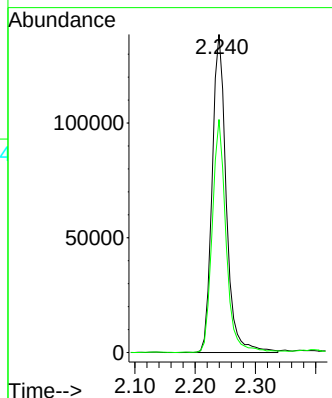
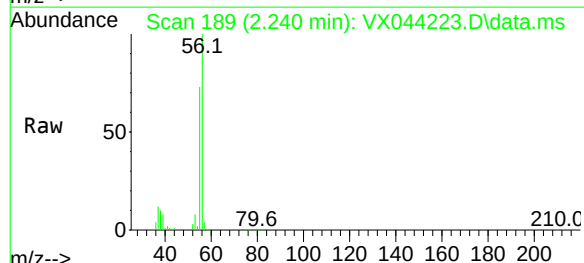
55 71.7 56.6 84.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#14

Allyl chloride

Concen: 100.703 ug/l

RT: 2.654 min Scan# 257

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

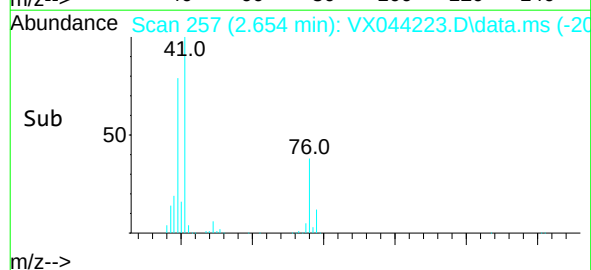
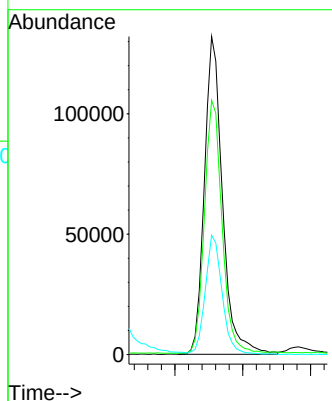
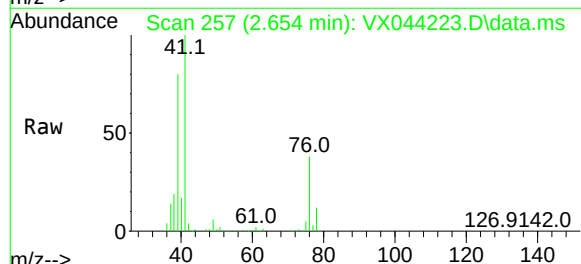
Tgt Ion: 41 Resp: 244602

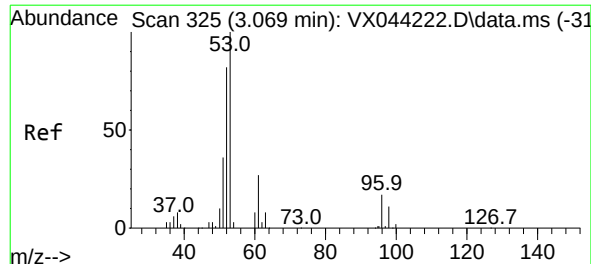
Ion Ratio Lower Upper

41 100

39 77.0 61.9 92.9

76 34.7 27.4 41.2





#15

Acrylonitrile

Concen: 501.661 ug/l

RT: 3.069 min Scan# 325

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

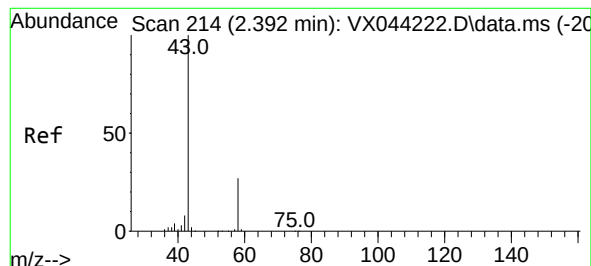
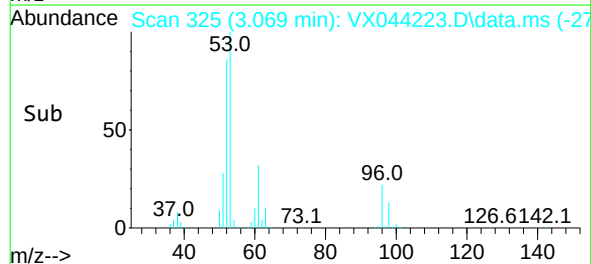
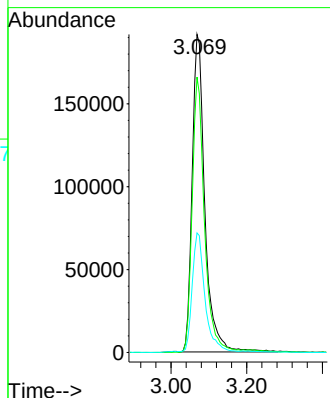
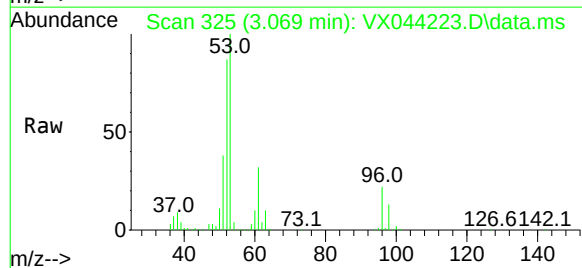
Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:	53	Resp:	446747
Ion	Ratio	Lower	Upper
53	100		
52	84.0	67.4	101.0
51	37.0	30.3	45.5

Manual Integrations
APPROVEDReviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

#16

Acetone

Concen: 487.065 ug/l

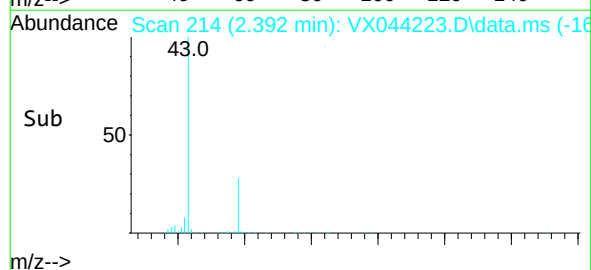
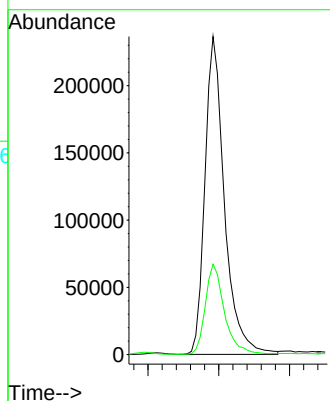
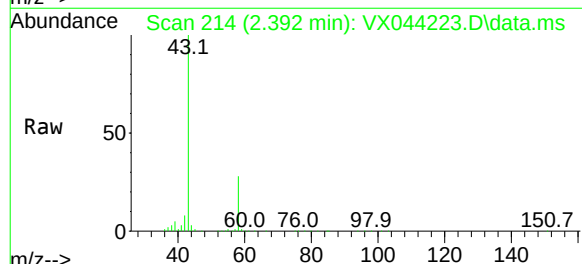
RT: 2.392 min Scan# 214

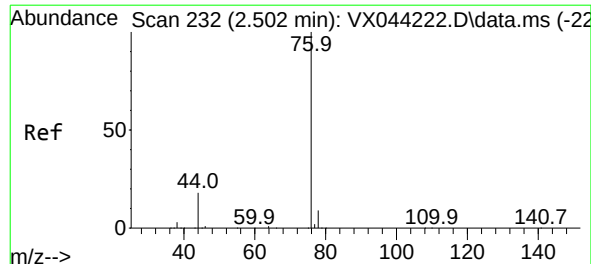
Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Tgt Ion:	43	Resp:	452955
Ion	Ratio	Lower	Upper
43	100		
58	28.4	21.6	32.4





#17

Carbon Disulfide

Concen: 115.453 ug/l

RT: 2.496 min Scan# 231

Delta R.T. -0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 320036

Ion Ratio Lower Upper

76 100

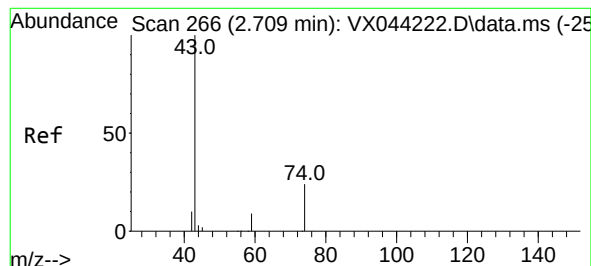
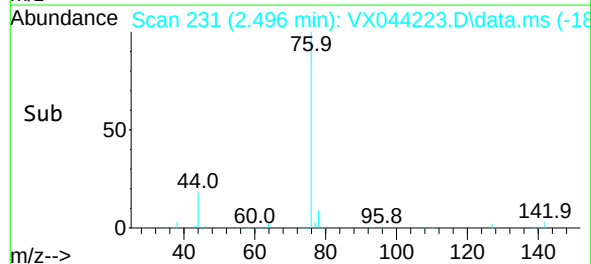
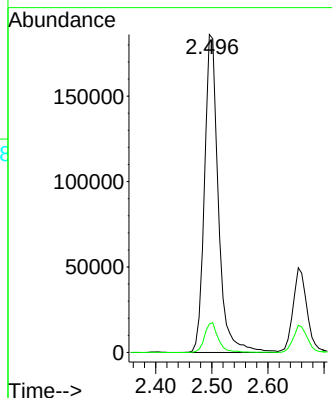
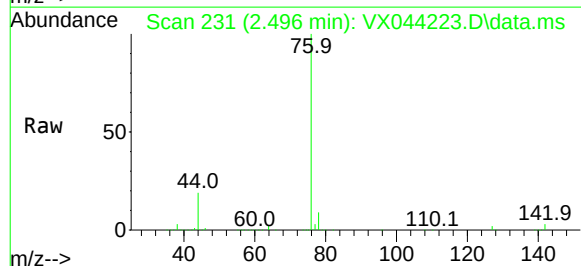
78 9.0 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#18

Methyl Acetate

Concen: 96.338 ug/l

RT: 2.709 min Scan# 266

Delta R.T. 0.000 min

Lab File: VX044223.D

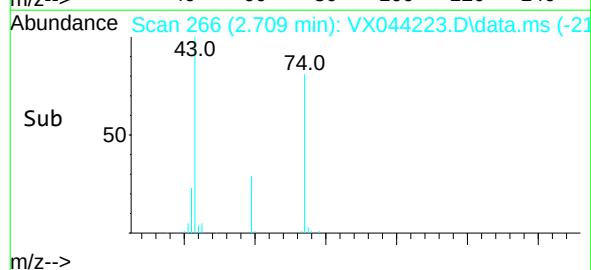
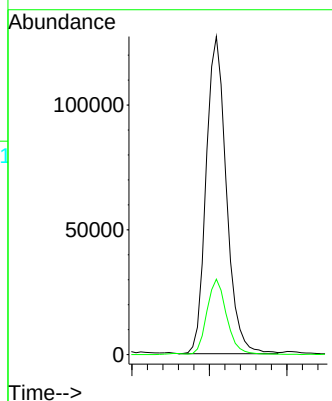
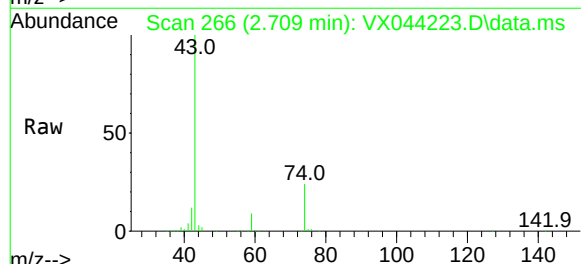
Acq: 11 Dec 2024 12:37

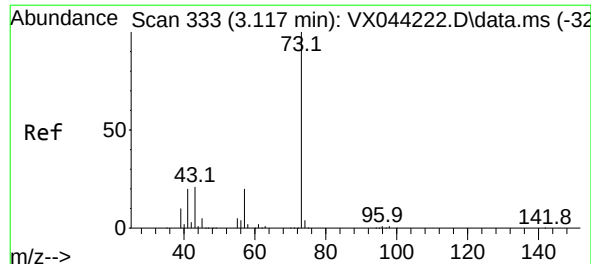
Tgt Ion: 43 Resp: 230998

Ion Ratio Lower Upper

43 100

74 23.3 17.7 26.5





#19

Methyl tert-butyl Ether

Concen: 99.205 ug/l

RT: 3.117 min Scan# 333

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 73 Resp: 564545

Ion Ratio Lower Upper

73 100

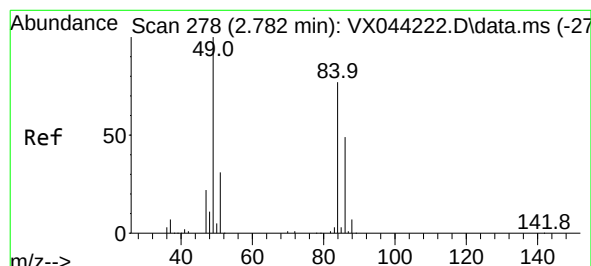
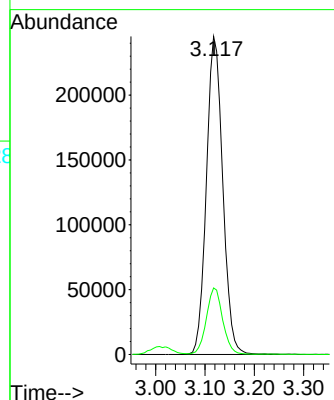
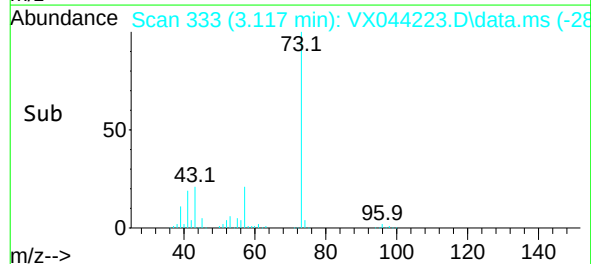
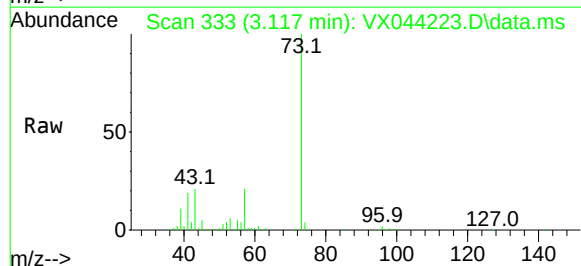
57 20.8 16.2 24.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#20

Methylene Chloride

Concen: 96.466 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Tgt Ion: 84 Resp: 168498

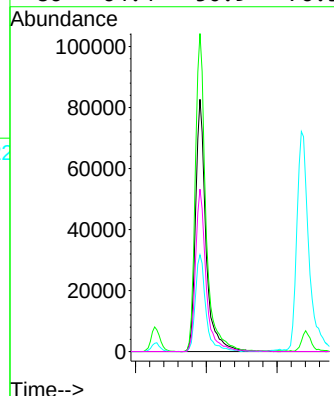
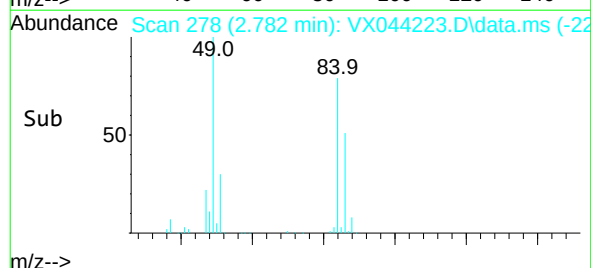
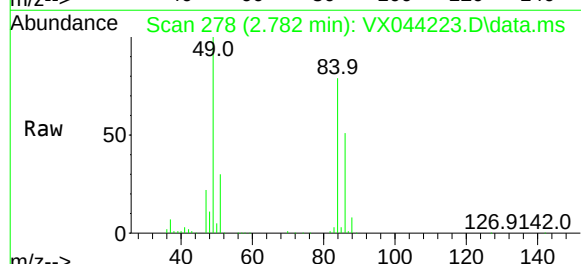
Ion Ratio Lower Upper

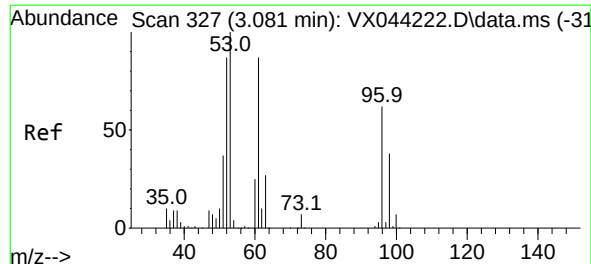
84 100

49 126.1 104.2 156.4

51 38.4 32.2 48.4

86 64.4 50.9 76.3





#21

trans-1,2-Dichloroethene

Concen: 99.880 ug/l

RT: 3.081 min Scan# 327

Delta R.T. 0.000 min

Lab File: VX044223.D

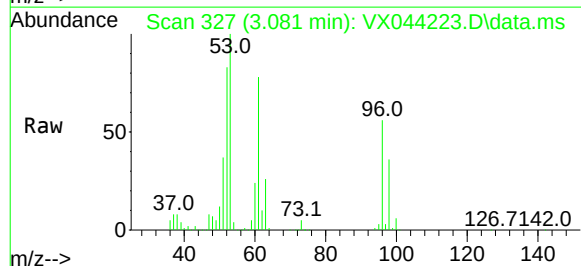
Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

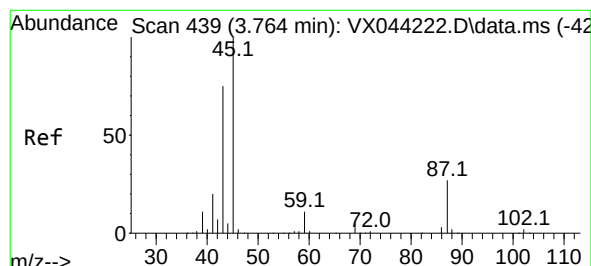
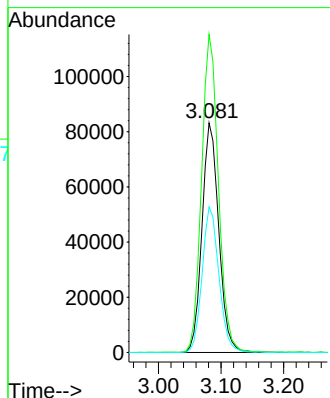
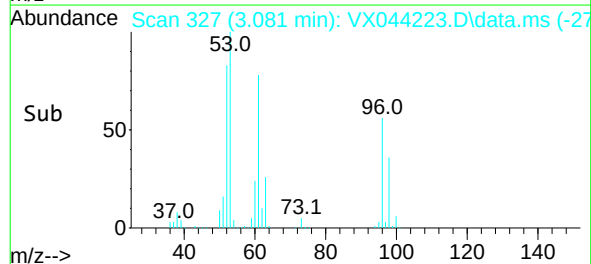
VSTDIC100



Tgt Ion:	96	Resp:	154797
Ion	Ratio	Lower	Upper
96	100		
61	138.4	112.0	168.0
98	63.5	48.8	73.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#22

Diisopropyl ether

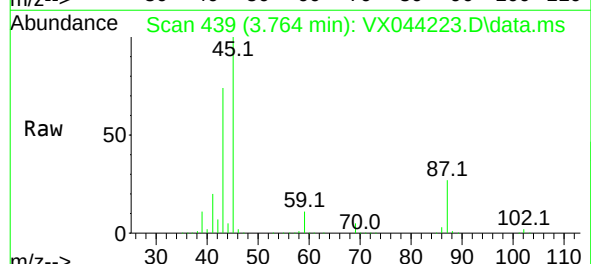
Concen: 98.498 ug/l

RT: 3.764 min Scan# 439

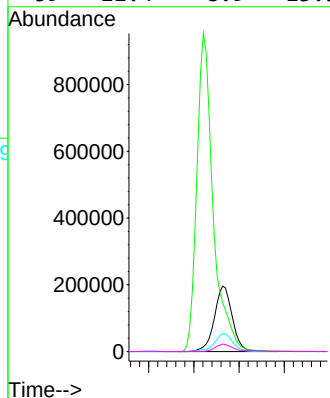
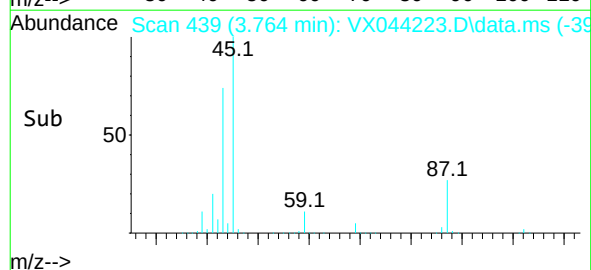
Delta R.T. 0.000 min

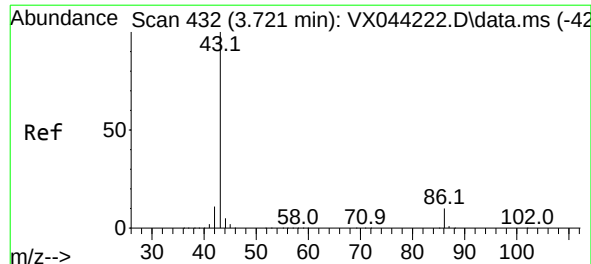
Lab File: VX044223.D

Acq: 11 Dec 2024 12:37



Tgt Ion:	45	Resp:	538742
Ion	Ratio	Lower	Upper
45	100		
43	74.2	60.2	90.2
87	27.4	21.2	31.8
59	11.4	8.9	13.3





#23

Vinyl Acetate

Concen: 538.801 ug/l

RT: 3.721 min Scan# 43

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 2395923

Ion Ratio Lower Upper

43 100

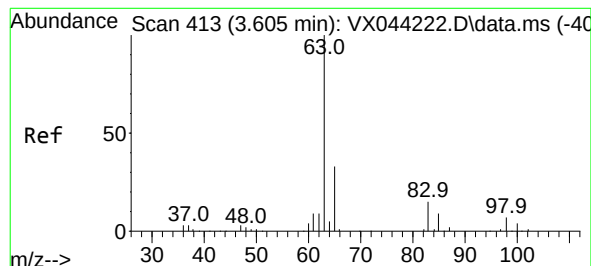
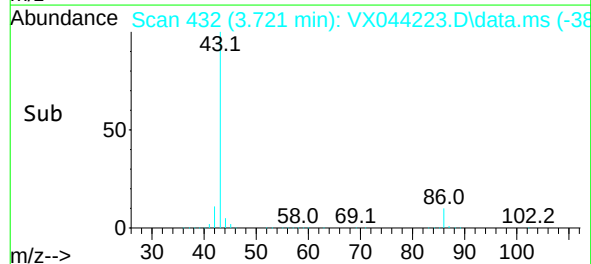
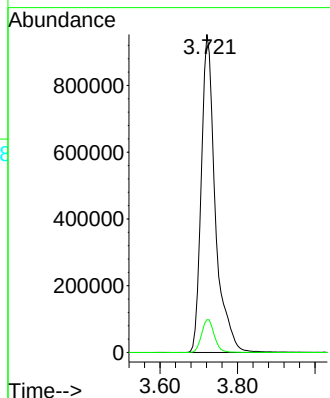
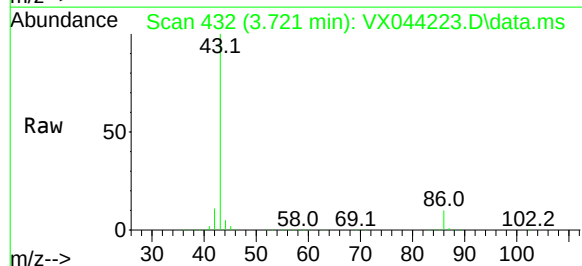
86 10.3 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#24

1,1-Dichloroethane

Concen: 99.915 ug/l

RT: 3.605 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

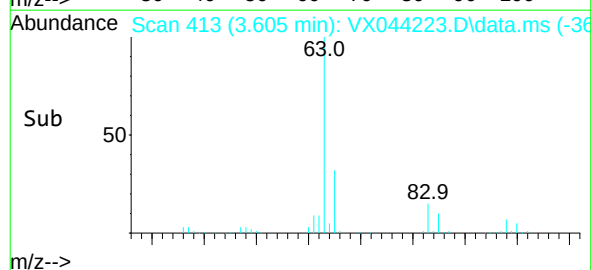
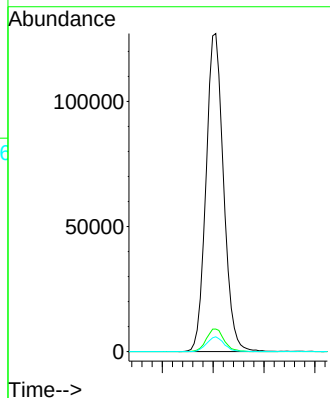
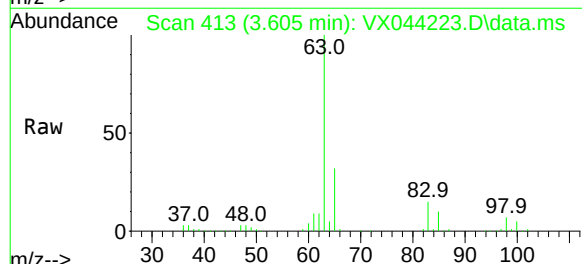
Tgt Ion: 63 Resp: 304626

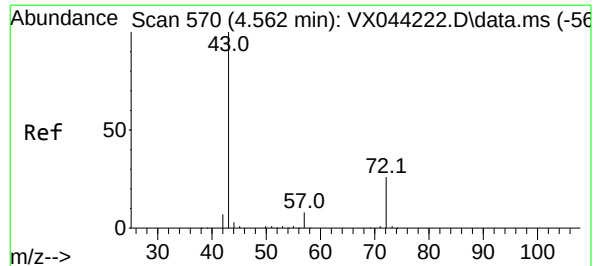
Ion Ratio Lower Upper

63 100

98 7.1 3.6 10.8

100 4.6 2.1 6.3





#25

2-Butanone

Concen: 501.306 ug/l

RT: 4.568 min Scan# 570

Delta R.T. 0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 662768

Ion Ratio Lower Upper

43 100

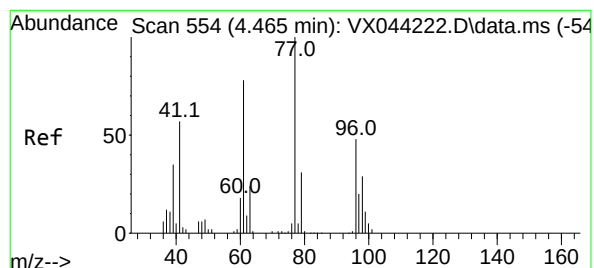
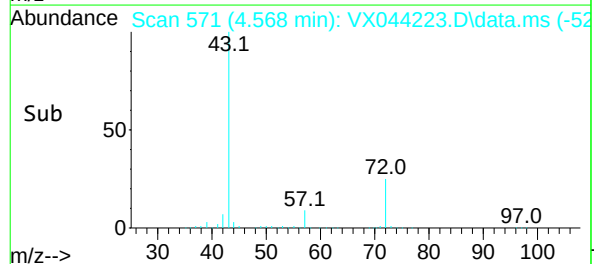
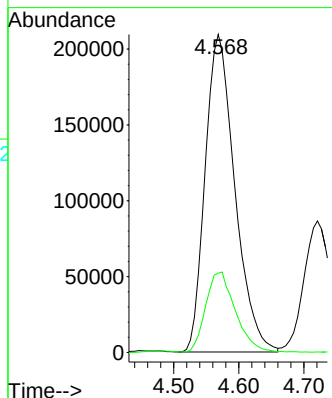
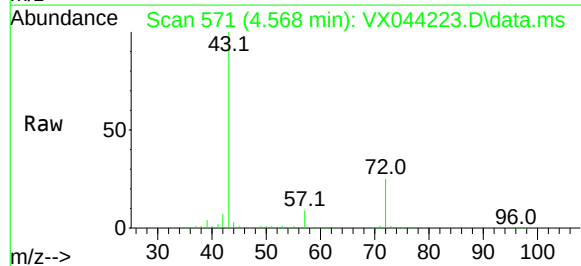
72 24.8 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#26

2,2-Dichloropropane

Concen: 104.201 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.006 min

Lab File: VX044223.D

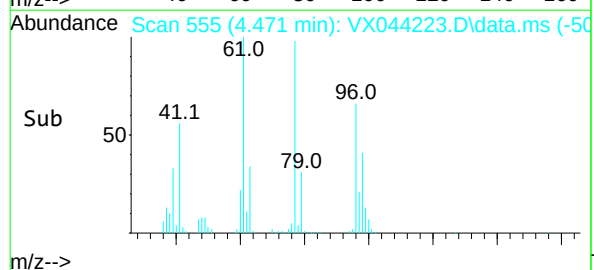
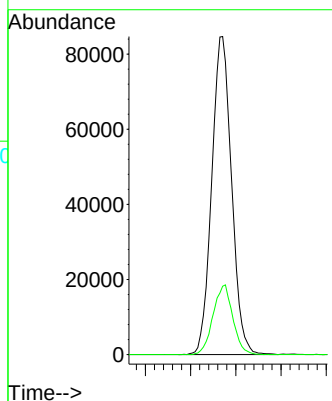
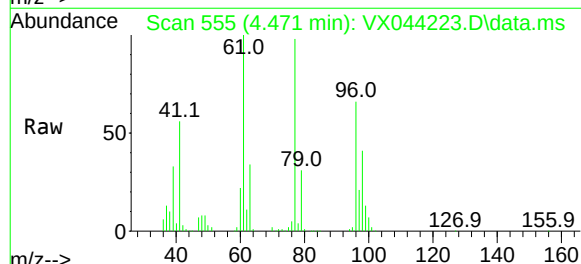
Acq: 11 Dec 2024 12:37

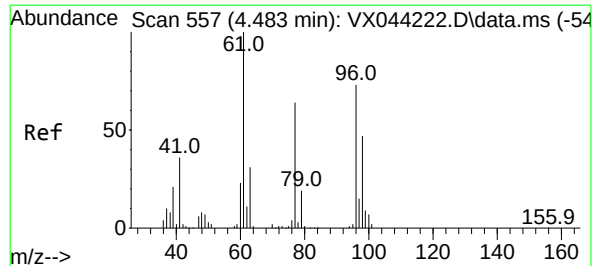
Tgt Ion: 77 Resp: 258092

Ion Ratio Lower Upper

77 100

97 21.8 10.7 32.1





#27

cis-1,2-Dichloroethene

Concen: 96.593 ug/l

RT: 4.483 min Scan# 557

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 96 Resp: 190127

Ion Ratio Lower Upper

96 100

61 148.5 0.0 299.0

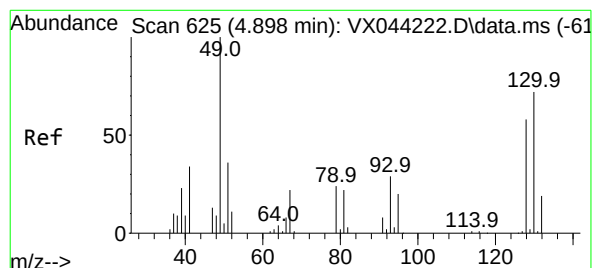
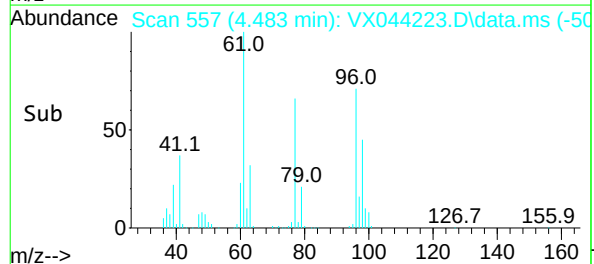
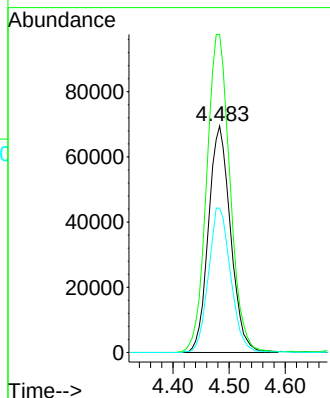
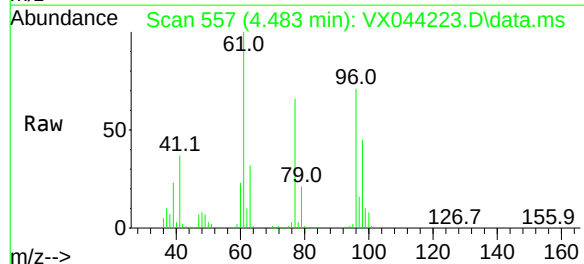
98 64.2 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#28

Bromochloromethane

Concen: 96.842 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

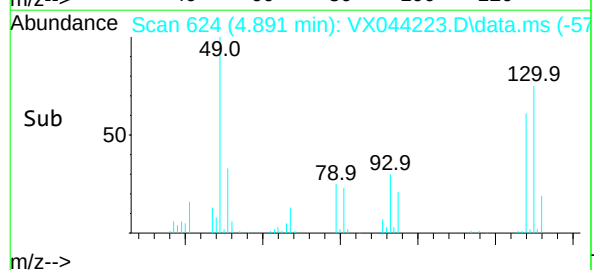
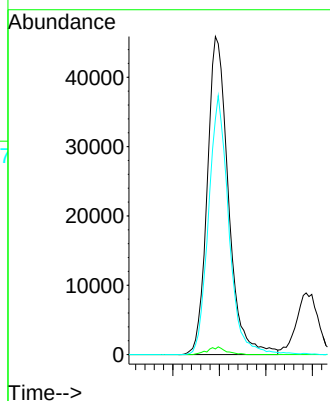
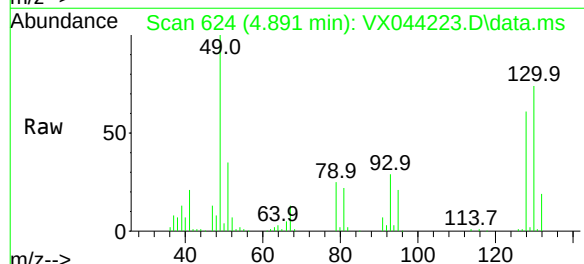
Tgt Ion: 49 Resp: 144783

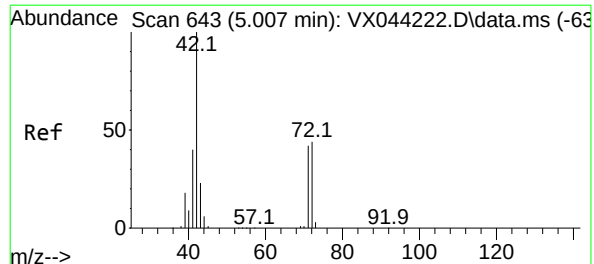
Ion Ratio Lower Upper

49 100

129 2.1 0.0 4.2

130 78.2 62.1 93.1





#29

Tetrahydrofuran

Concen: 486.290 ug/l

RT: 5.007 min Scan# 64

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 42 Resp: 412666

Ion Ratio Lower Upper

42 100

72 45.6 37.0 55.6

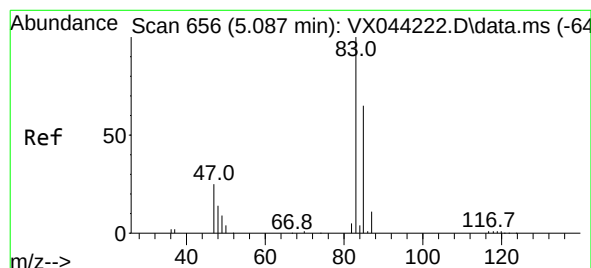
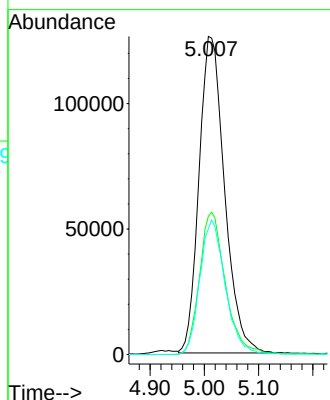
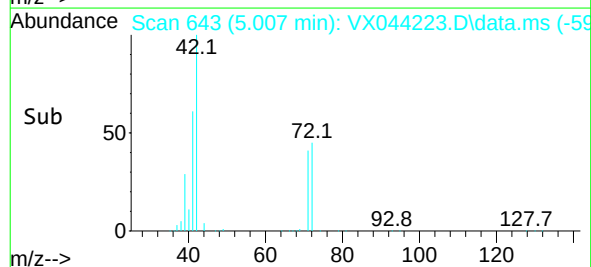
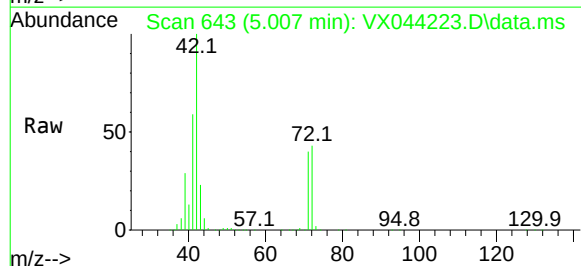
71 42.1 33.6 50.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#30

Chloroform

Concen: 96.642 ug/l

RT: 5.093 min Scan# 657

Delta R.T. 0.006 min

Lab File: VX044223.D

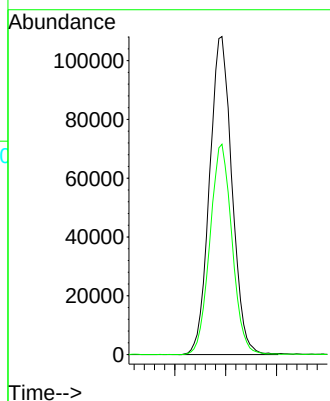
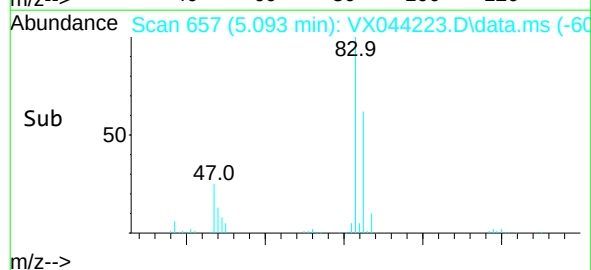
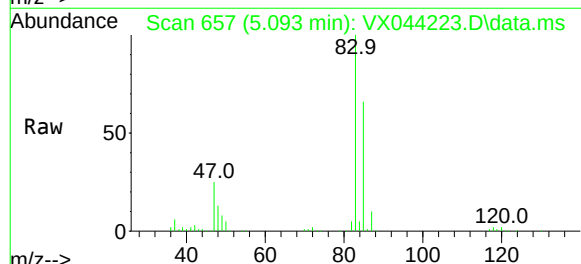
Acq: 11 Dec 2024 12:37

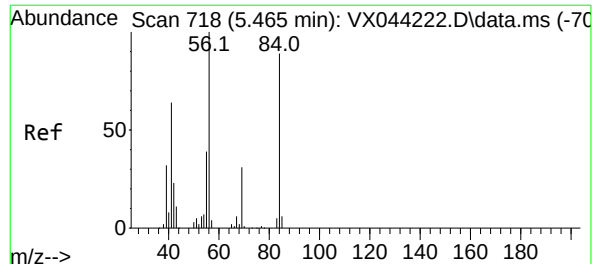
Tgt Ion: 83 Resp: 331047

Ion Ratio Lower Upper

83 100

85 66.1 51.6 77.4





#31

Cyclohexane

Concen: 97.433 ug/l

RT: 5.458 min Scan# 718

Delta R.T. -0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 239879

Ion Ratio Lower Upper

56 100

69 32.8 24.7 37.1

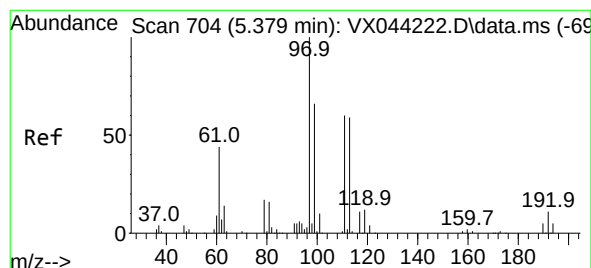
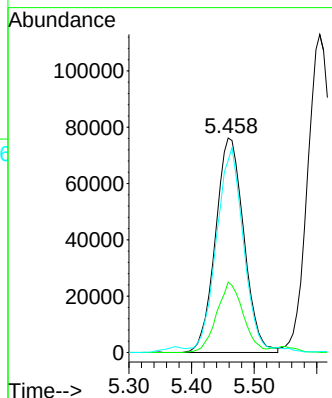
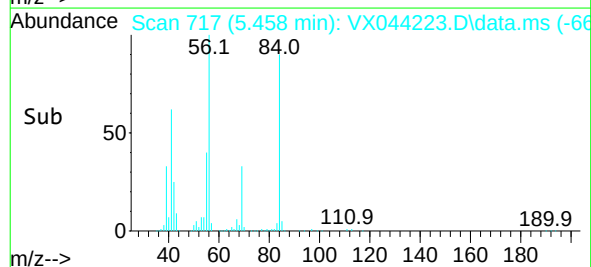
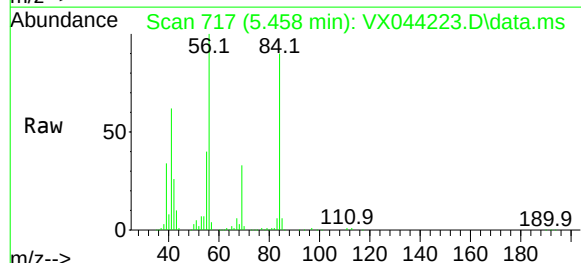
84 87.3 71.0 106.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#32

1,1,1-Trichloroethane

Concen: 102.363 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

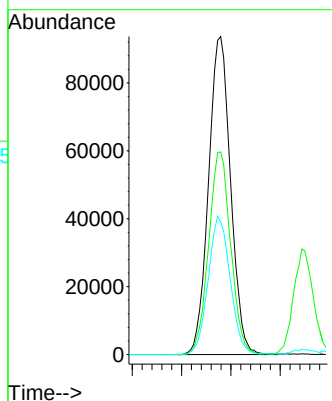
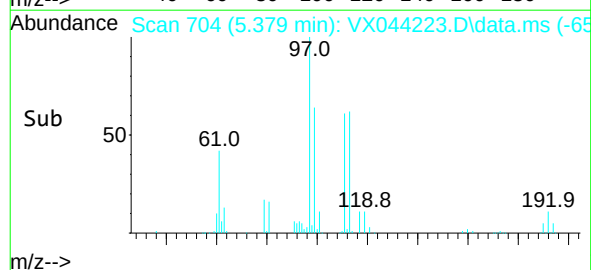
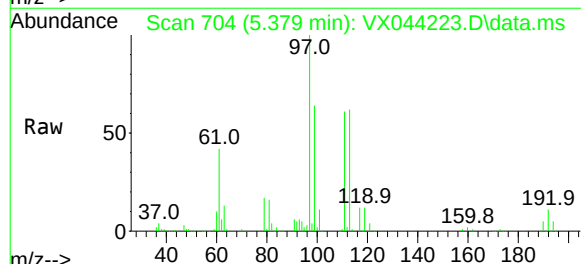
Tgt Ion: 97 Resp: 291065

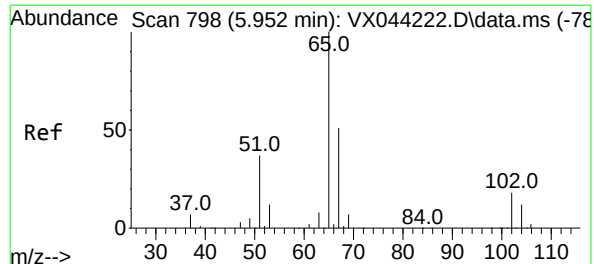
Ion Ratio Lower Upper

97 100

99 63.7 50.8 76.2

61 43.3 35.2 52.8





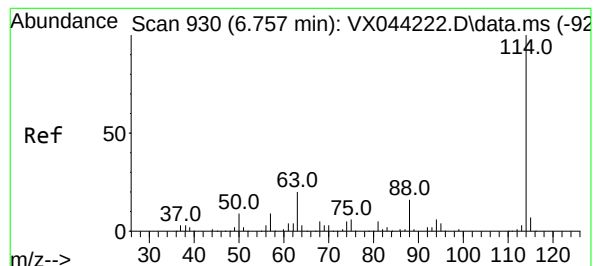
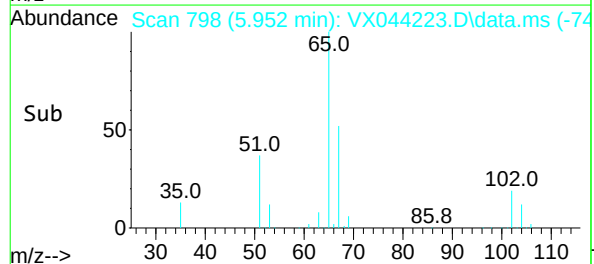
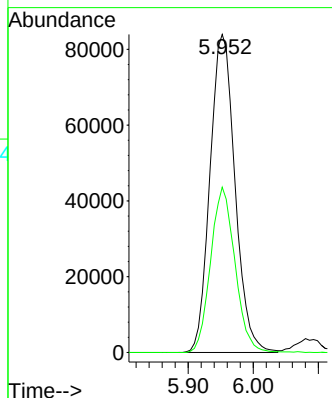
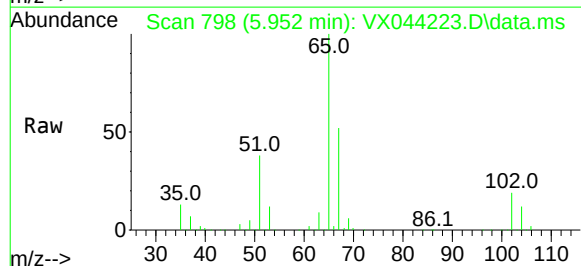
#33
1,2-Dichloroethane-d4
Concen: 98.326 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 224292
Ion Ratio Lower Upper
65 100
67 50.5 0.0 101.6

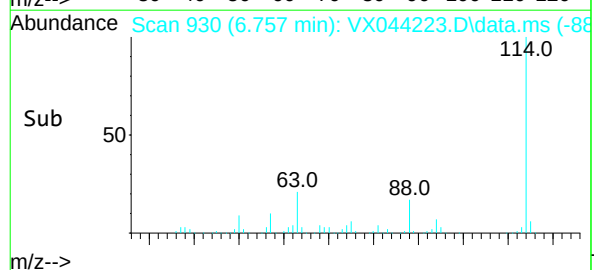
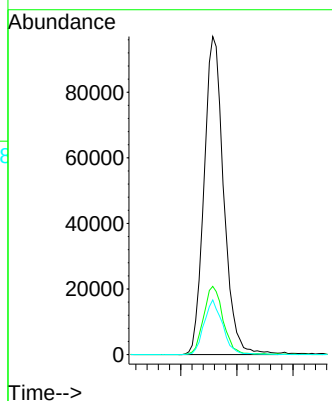
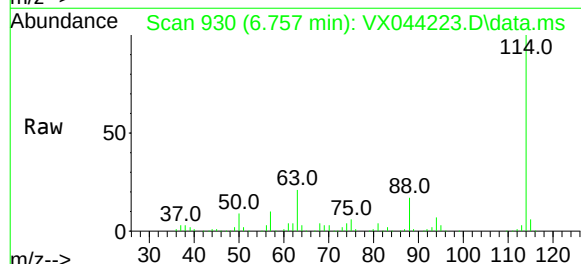
Manual Integrations
APPROVED

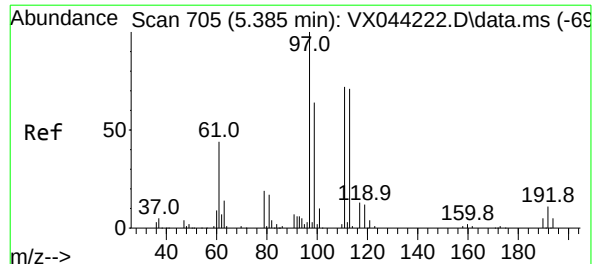
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:114 Resp: 235738
Ion Ratio Lower Upper
114 100
63 21.5 0.0 40.6
88 17.2 0.0 31.8





#35

Dibromofluoromethane

Concen: 103.866 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:113 Resp: 169582

Ion Ratio Lower Upper

113 100

111 102.7 80.4 120.6

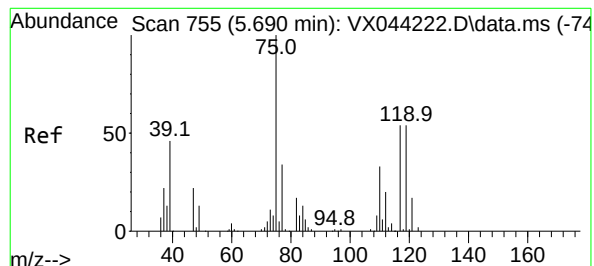
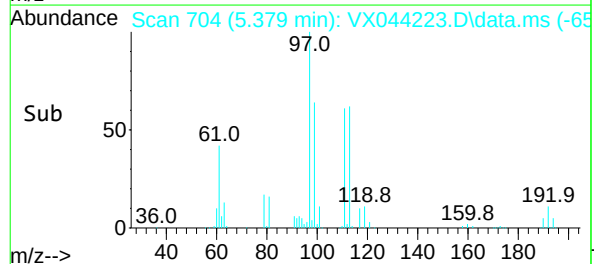
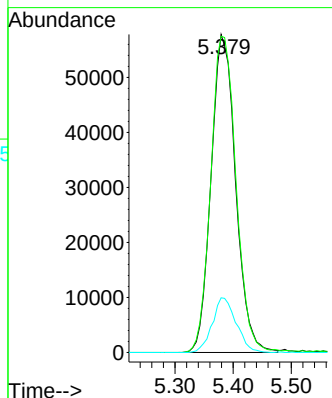
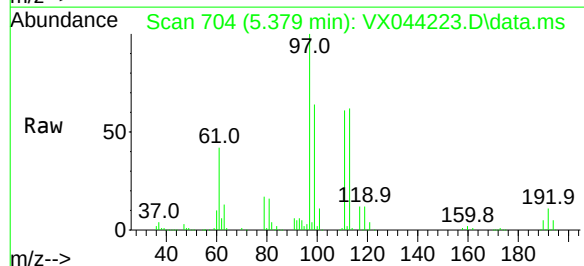
192 16.7 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#36

1,1-Dichloropropene

Concen: 99.376 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

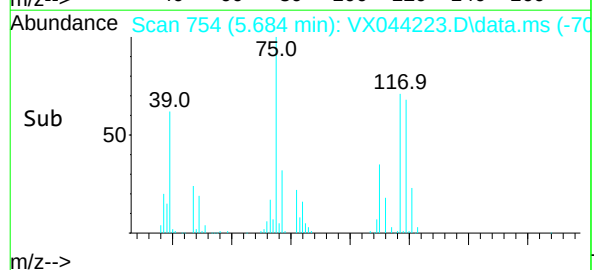
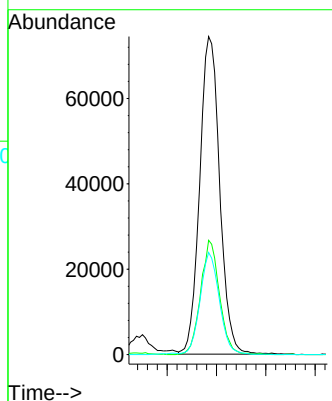
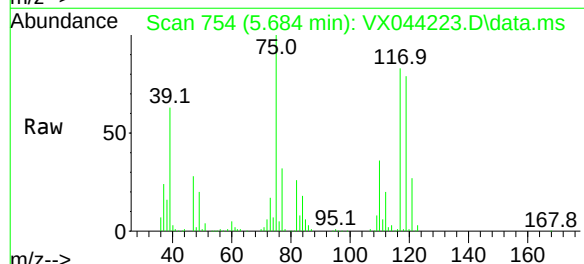
Tgt Ion: 75 Resp: 209732

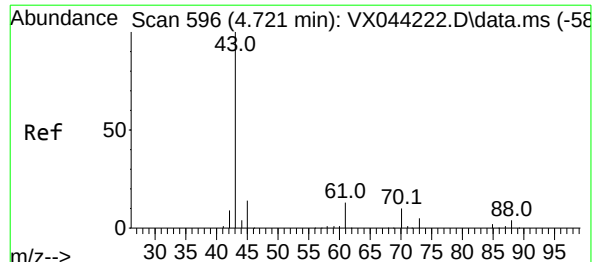
Ion Ratio Lower Upper

75 100

110 33.9 17.3 51.7

77 30.6 25.4 38.0





#37

Ethyl Acetate

Concen: 102.079 ug/l

RT: 4.721 min Scan# 596

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

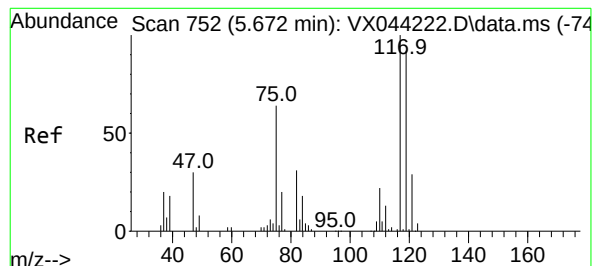
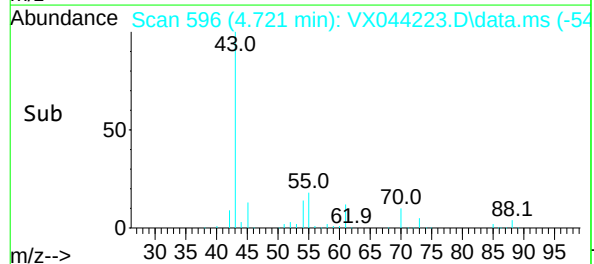
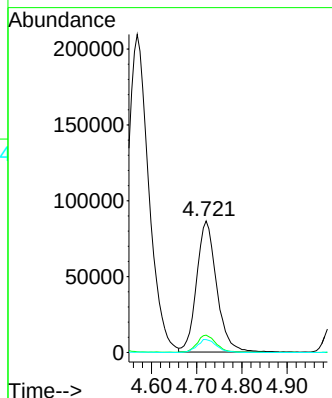
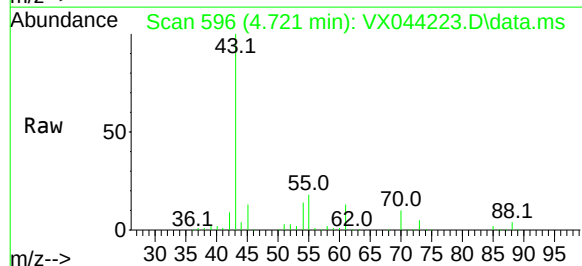
ClientSampleId :

VSTDIC100

Tgt Ion:	43	Resp:	266307
Ion	Ratio	Lower	Upper
43	100		
61	12.5	9.8	14.8
70	9.5	7.7	11.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#38

Carbon Tetrachloride

Concen: 104.249 ug/l

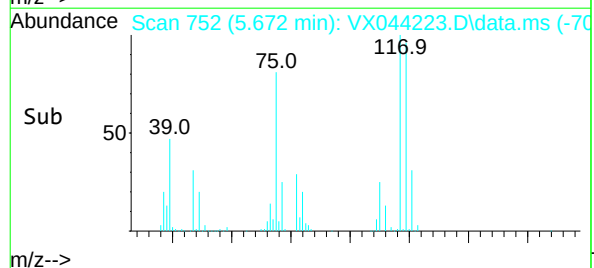
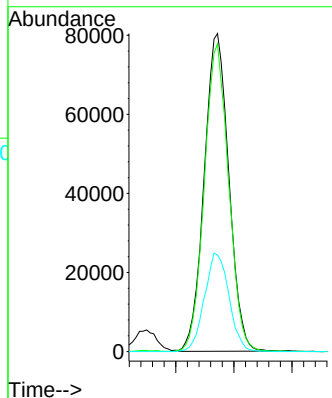
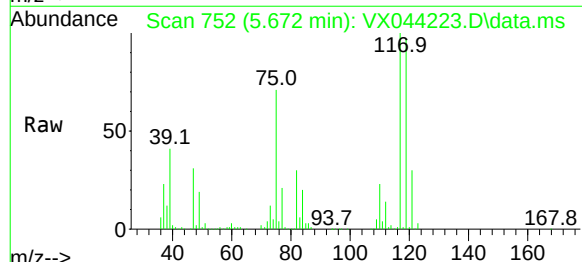
RT: 5.672 min Scan# 752

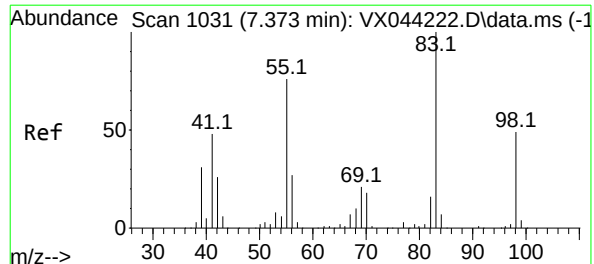
Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Tgt Ion:	117	Resp:	236869
Ion	Ratio	Lower	Upper
117	100		
119	96.7	74.2	111.4
121	30.4	23.0	34.6





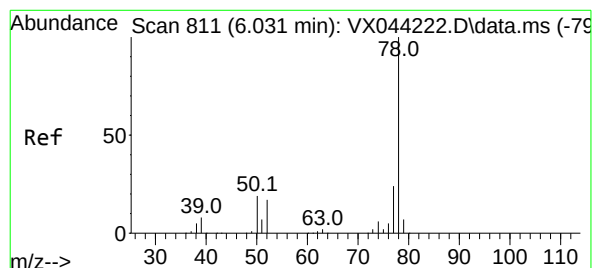
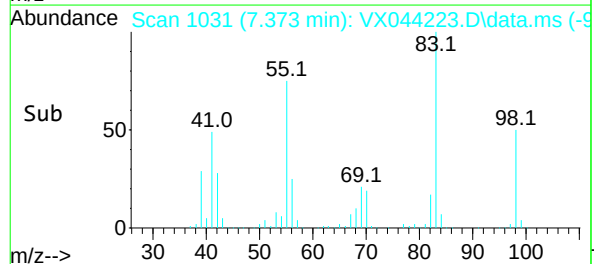
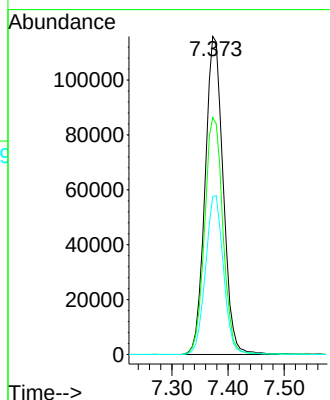
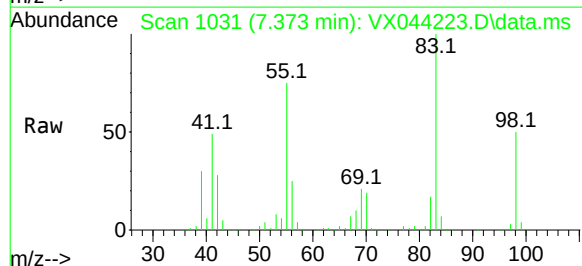
#39
Methylcyclohexane
Concen: 102.800 ug/l
RT: 7.373 min Scan# 1031
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 259368
Ion Ratio Lower Upper
83 100
55 74.5 60.7 91.1
98 49.6 38.9 58.3

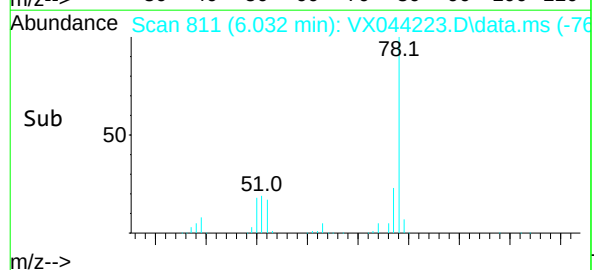
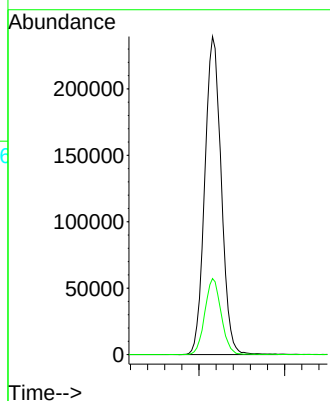
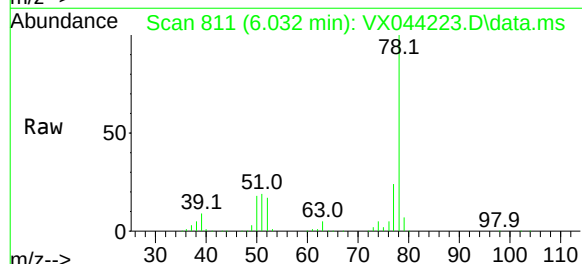
Manual Integrations
APPROVED

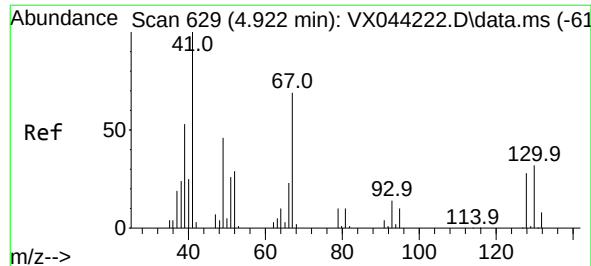
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#40
Benzene
Concen: 99.575 ug/l
RT: 6.032 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 78 Resp: 638055
Ion Ratio Lower Upper
78 100
77 23.9 19.3 28.9





#41

Methacrylonitrile

Concen: 101.332 ug/l

RT: 4.928 min Scan# 63

Delta R.T. 0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 41 Resp: 140375

Ion Ratio Lower Upper

41 100

39 55.0 44.2 66.4

67 69.1 57.2 85.8

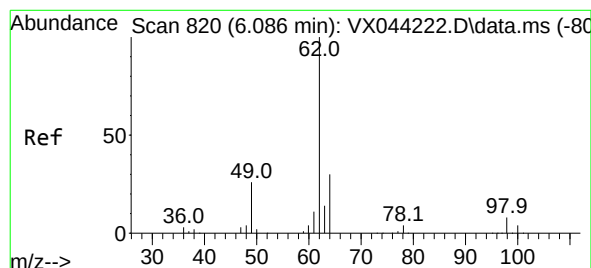
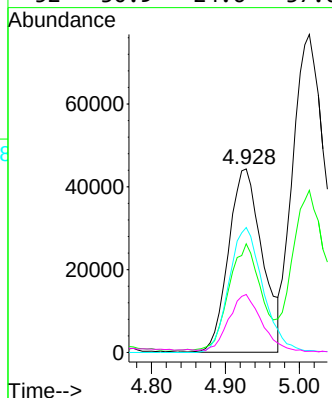
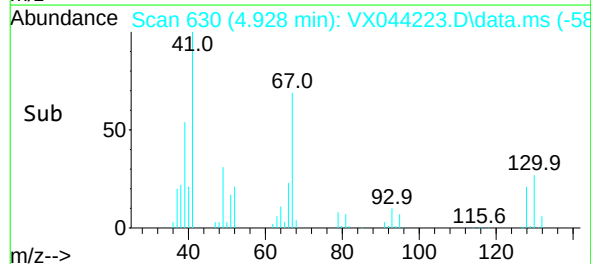
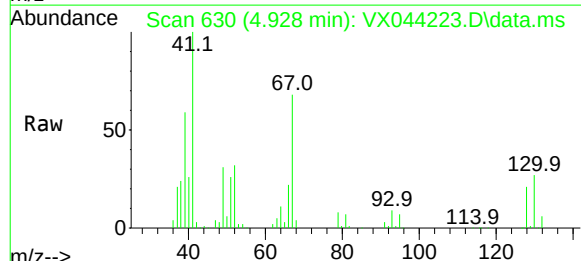
52 30.9 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#42

1,2-Dichloroethane

Concen: 99.255 ug/l

RT: 6.086 min Scan# 820

Delta R.T. 0.000 min

Lab File: VX044223.D

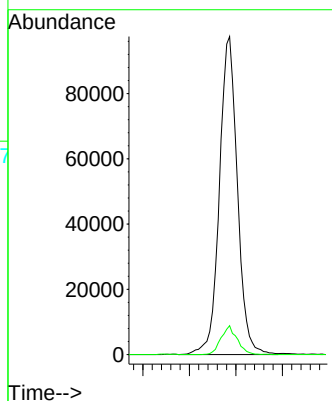
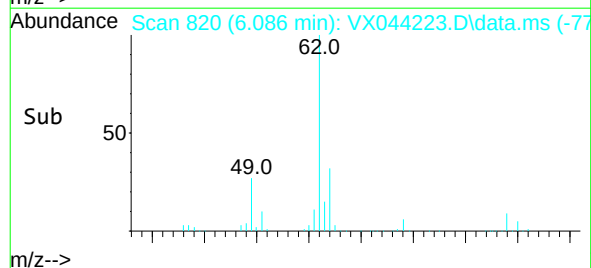
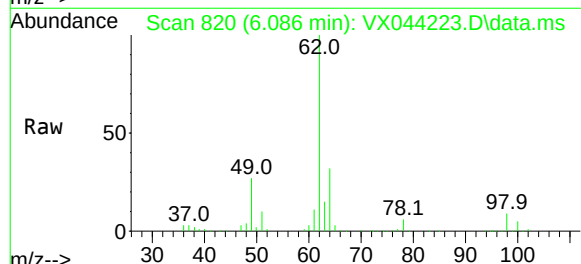
Acq: 11 Dec 2024 12:37

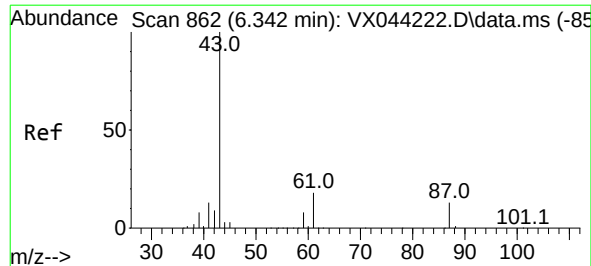
Tgt Ion: 62 Resp: 261991

Ion Ratio Lower Upper

62 100

98 8.1 0.0 15.8





#43

Isopropyl Acetate

Concen: 104.939 ug/l

RT: 6.342 min Scan# 862

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

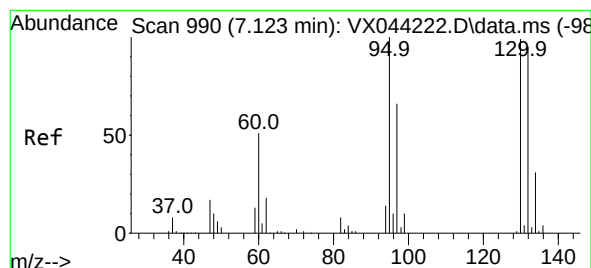
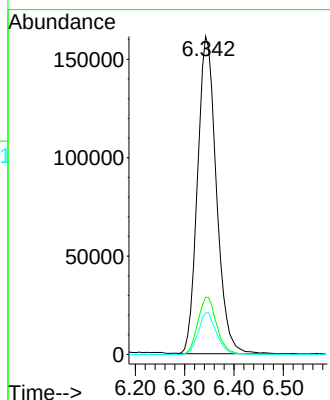
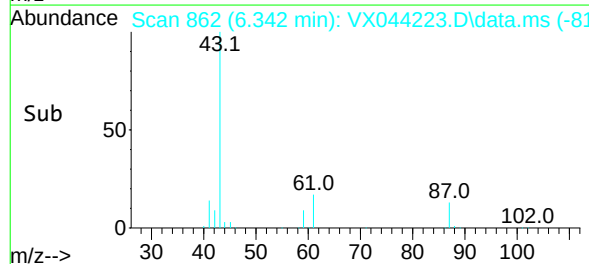
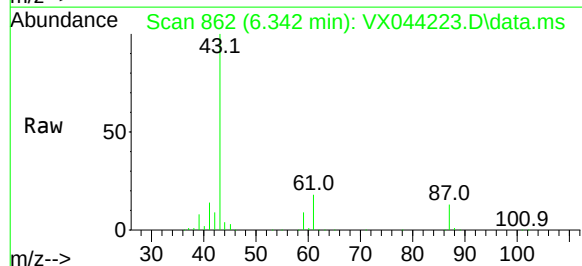
ClientSampleId :

VSTDIC100

Tgt Ion:	43	Resp:	427893
Ion	Ratio	Lower	Upper
43	100		
61	18.2	14.2	21.2
87	12.8	10.2	15.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#44

Trichloroethene

Concen: 99.497 ug/l

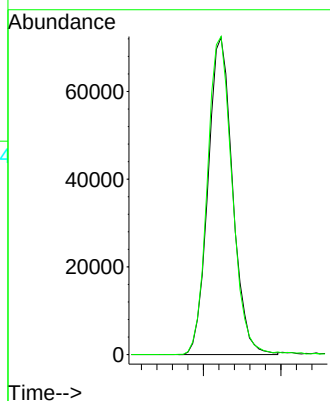
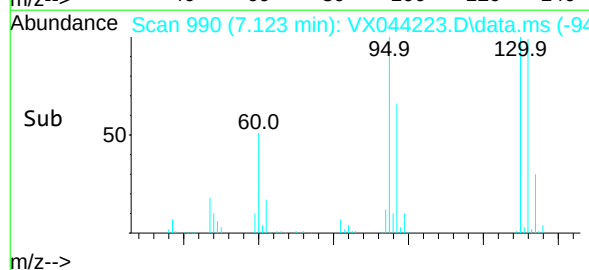
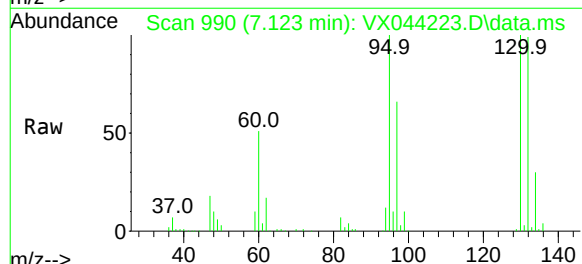
RT: 7.123 min Scan# 990

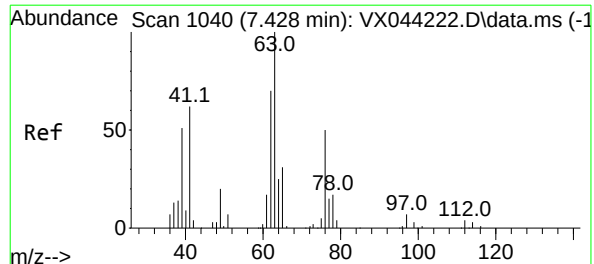
Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Tgt Ion:	130	Resp:	158990
Ion	Ratio	Lower	Upper
130	100		
95	100.2	0.0	201.4





#45

1,2-Dichloropropane

Concen: 98.293 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Tgt Ion: 63 Resp: 160913

Ion Ratio Lower Upper

63 100

65 32.5 24.6 37.0

Instrument :

MSVOA_X

ClientSampleId :

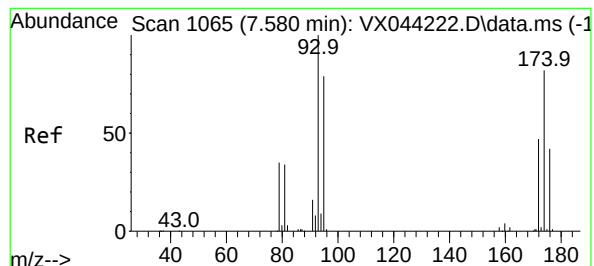
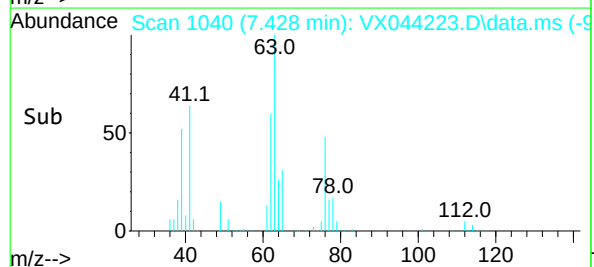
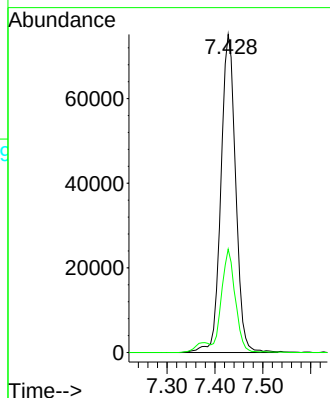
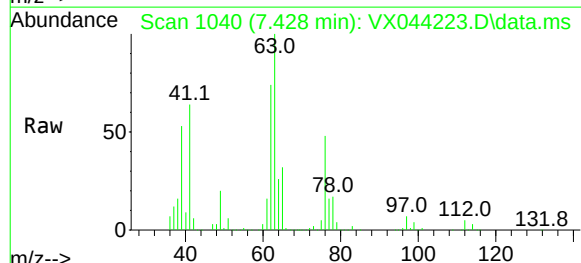
VSTDICC100

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#46

Dibromomethane

Concen: 102.607 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

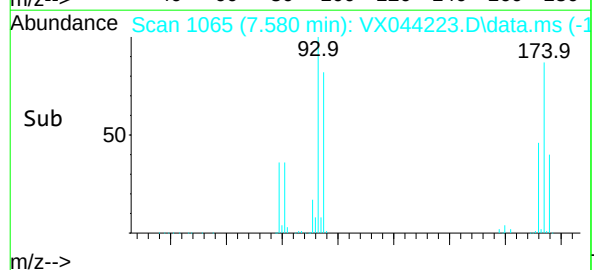
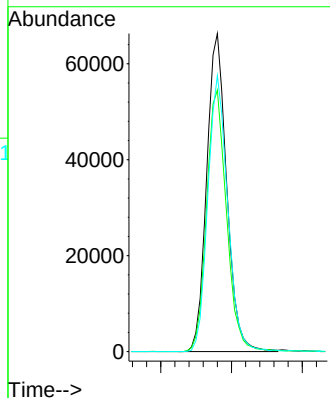
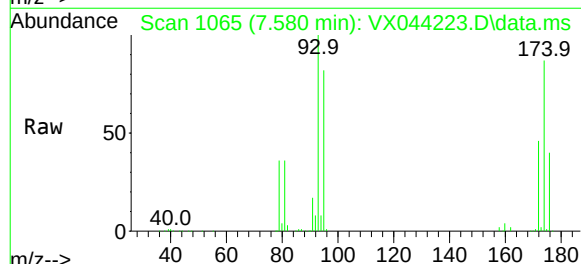
Tgt Ion: 93 Resp: 130316

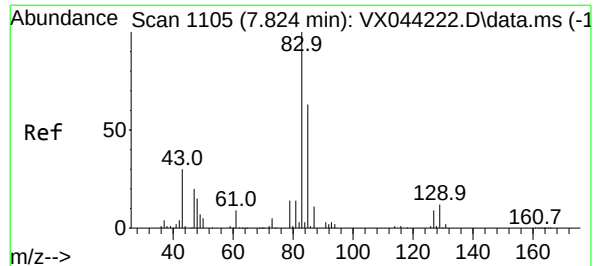
Ion Ratio Lower Upper

93 100

95 82.2 65.4 98.2

174 86.1 67.9 101.9





#47

Bromodichloromethane

Concen: 111.423 ug/l

RT: 7.818 min Scan# 1105

Delta R.T. -0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 244401

Ion Ratio Lower Upper

83 100

85 63.2 50.6 75.8

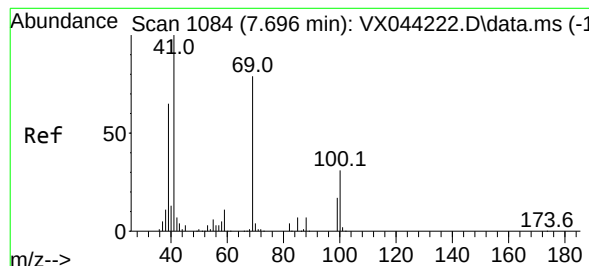
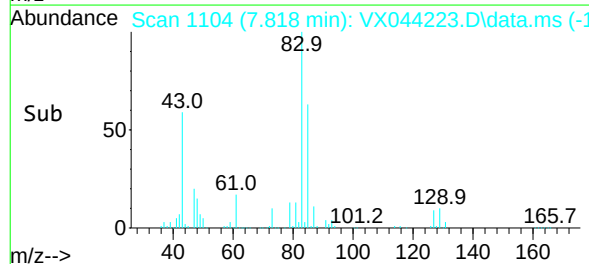
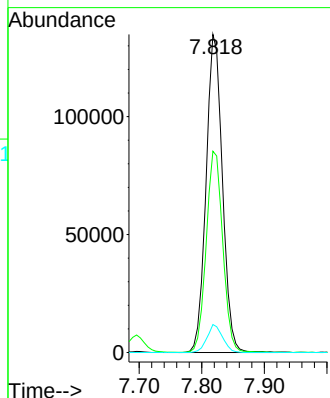
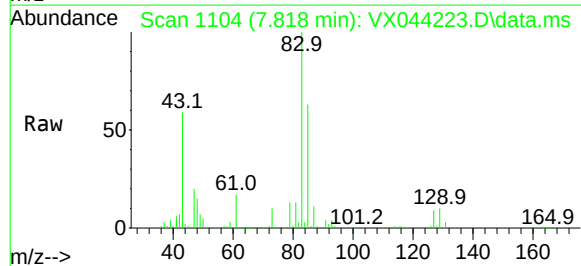
127 8.8 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#48

Methyl methacrylate

Concen: 102.618 ug/l

RT: 7.696 min Scan# 1084

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

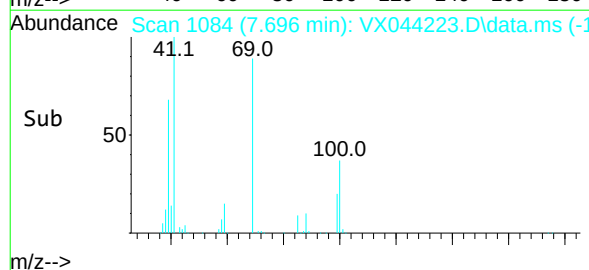
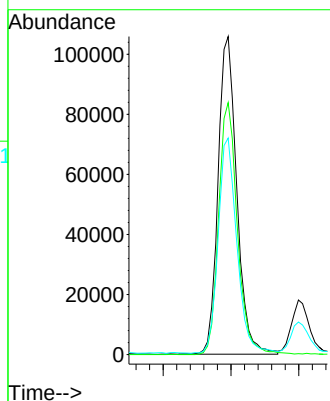
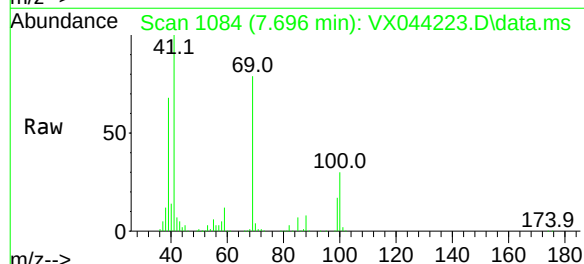
Tgt Ion: 41 Resp: 203116

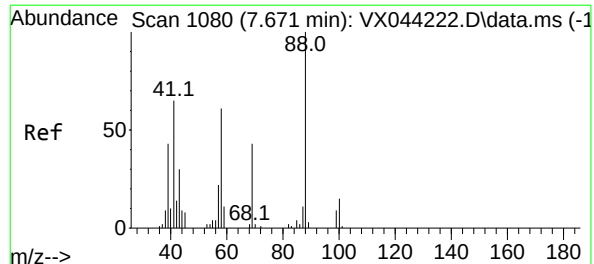
Ion Ratio Lower Upper

41 100

69 79.5 62.4 93.6

39 67.4 53.3 79.9





#49

1,4-Dioxane

Concen: 2170.871 ug/l m

RT: 7.665 min Scan# 1080

Delta R.T. -0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 88 Resp: 73434

Ion Ratio Lower Upper

88 100

43 34.9 27.1 40.7

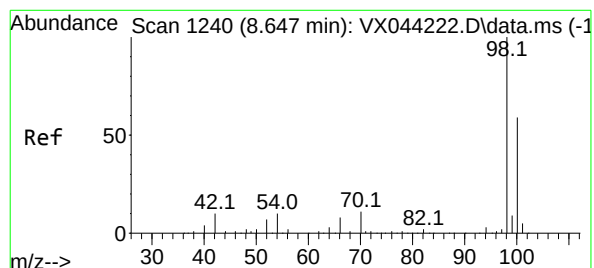
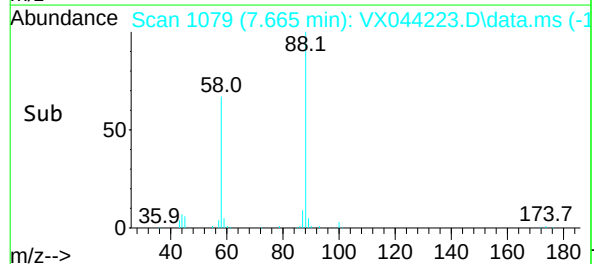
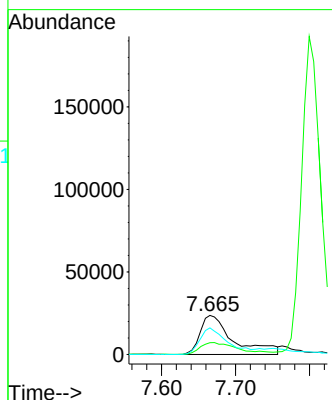
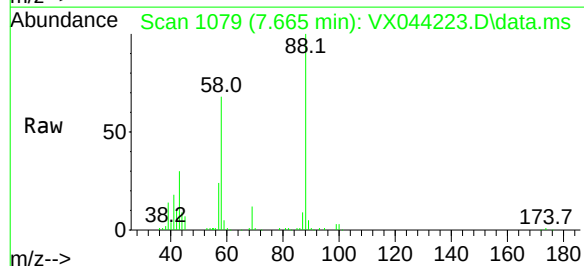
58 57.8 41.0 61.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#50

Toluene-d8

Concen: 105.201 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044223.D

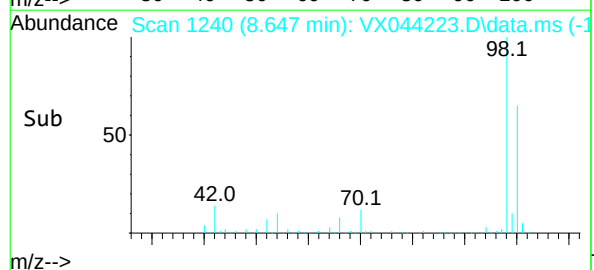
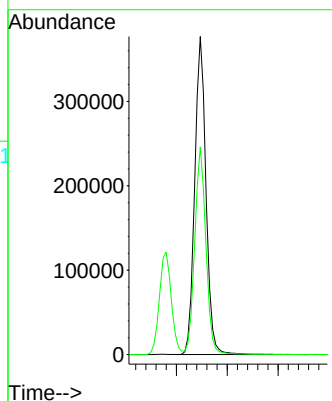
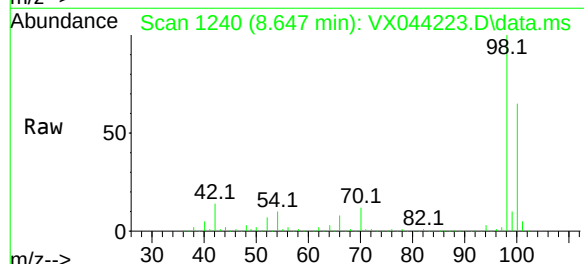
Acq: 11 Dec 2024 12:37

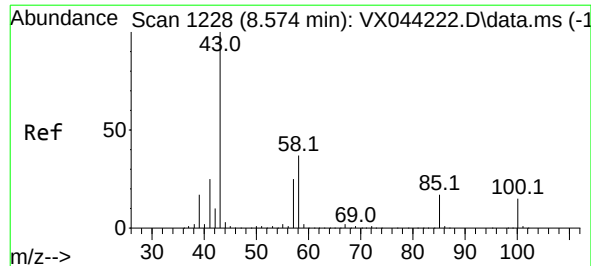
Tgt Ion: 98 Resp: 579477

Ion Ratio Lower Upper

98 100

100 65.1 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 504.496 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 1322678

Ion Ratio Lower Upper

43 100

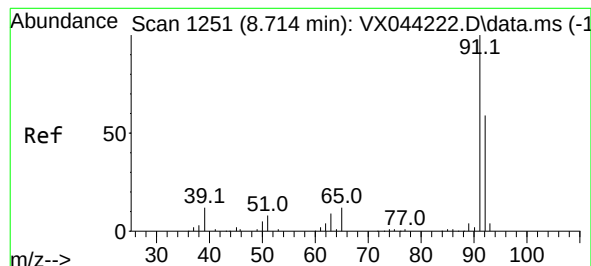
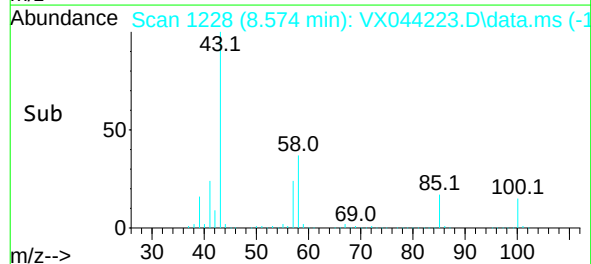
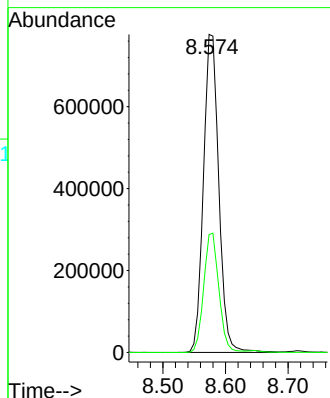
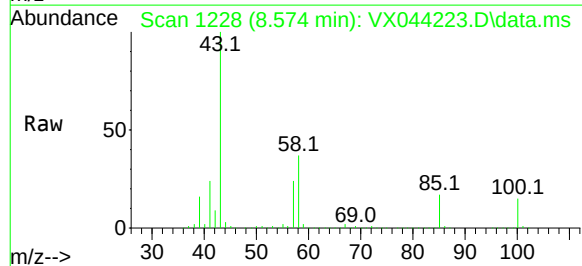
58 37.0 29.4 44.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#52

Toluene

Concen: 98.506 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. 0.000 min

Lab File: VX044223.D

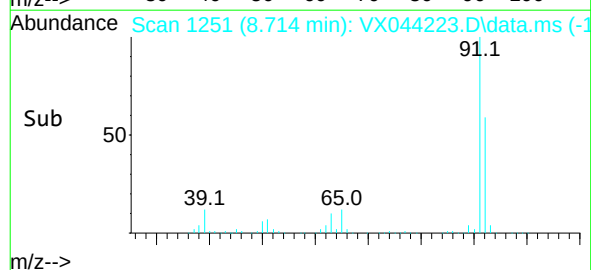
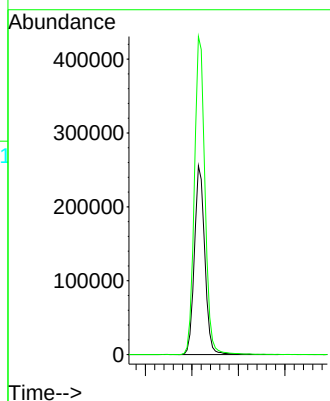
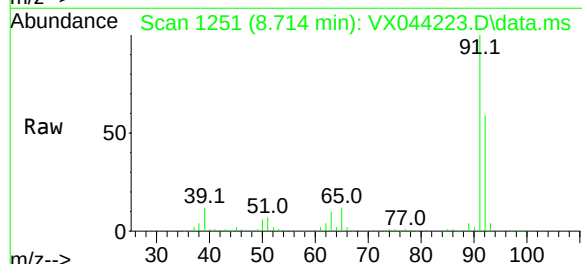
Acq: 11 Dec 2024 12:37

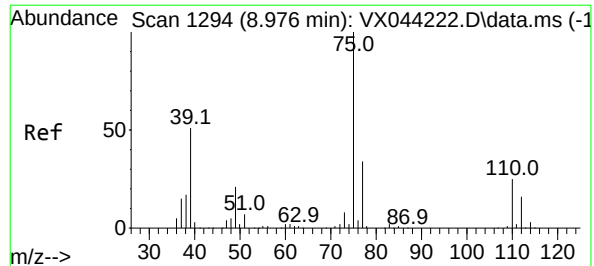
Tgt Ion: 92 Resp: 396383

Ion Ratio Lower Upper

92 100

91 171.4 137.0 205.6





#53

t-1,3-Dichloropropene

Concen: 99.321 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 75 Resp: 248092

Ion Ratio Lower Upper

75 100

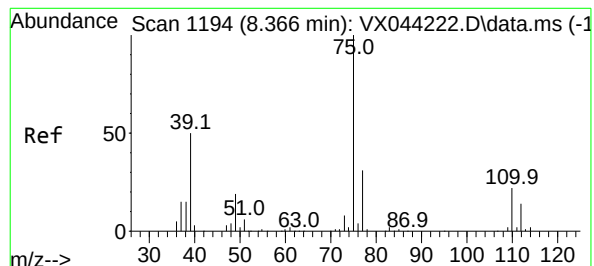
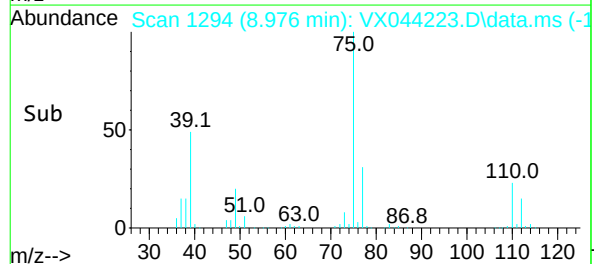
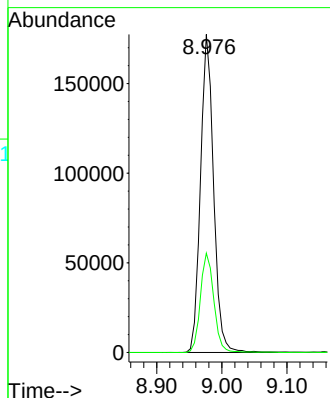
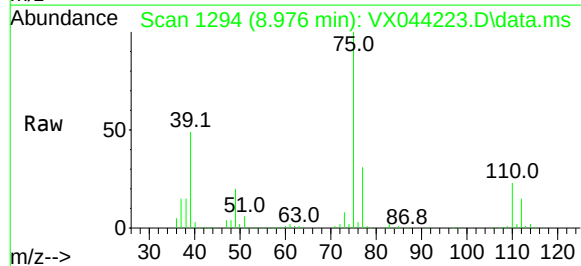
77 31.2 27.2 40.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#54

cis-1,3-Dichloropropene

Concen: 110.127 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

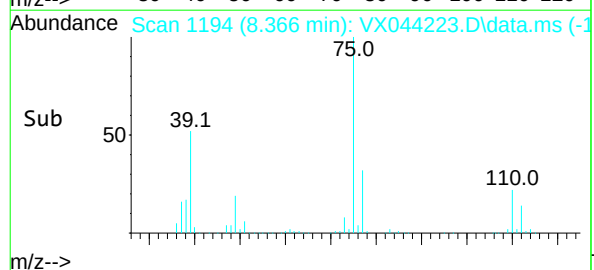
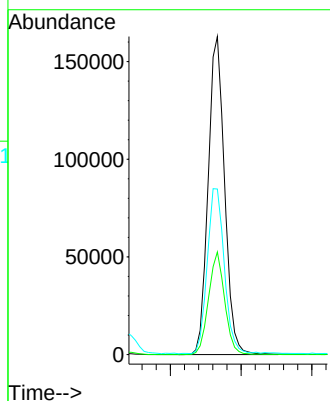
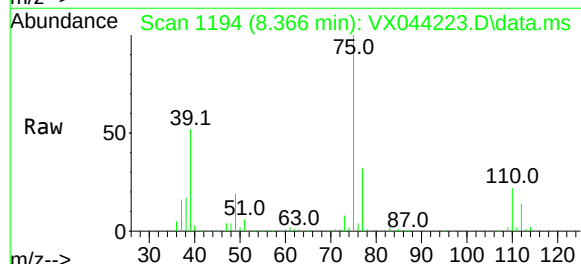
Tgt Ion: 75 Resp: 263014

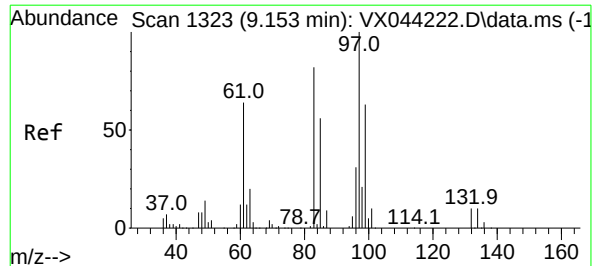
Ion Ratio Lower Upper

75 100

77 32.3 24.7 37.1

39 51.8 40.3 60.5





#55

1,1,2-Trichloroethane

Concen: 98.441 ug/l

RT: 9.153 min Scan# 13

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 97 Resp: 157366

Ion Ratio Lower Upper

97 100

83 83.1 65.3 97.9

85 53.8 44.6 67.0

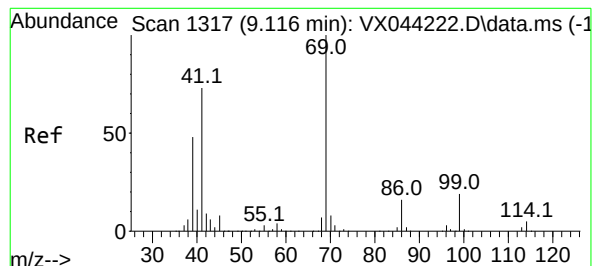
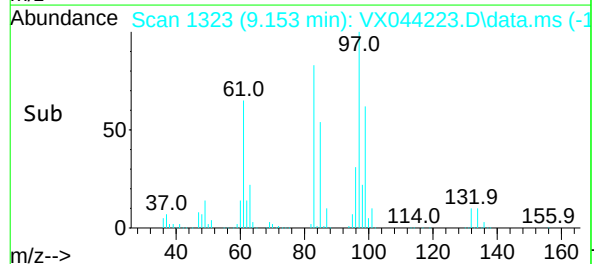
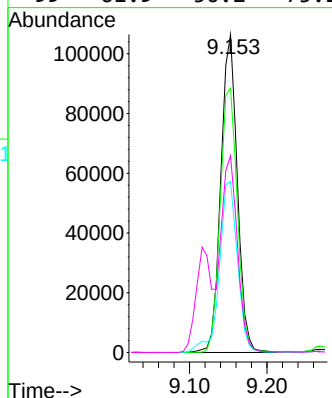
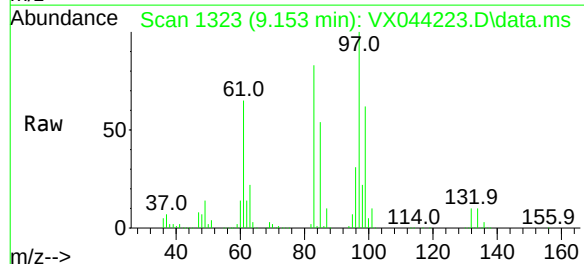
99 61.9 50.2 75.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#56

Ethyl methacrylate

Concen: 107.442 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

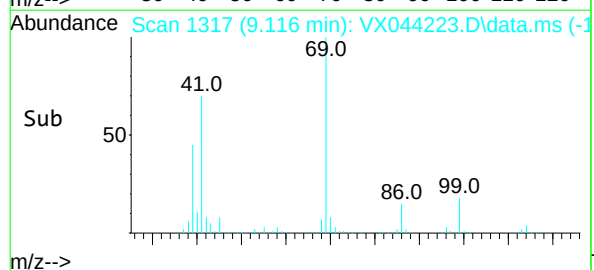
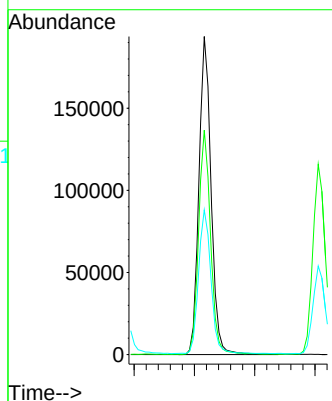
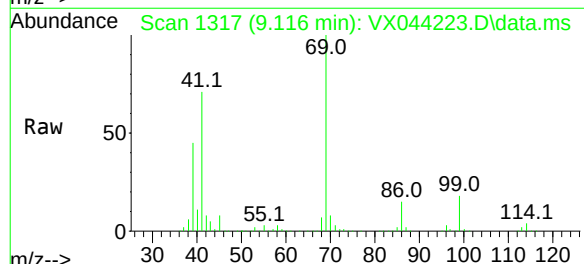
Tgt Ion: 69 Resp: 271146

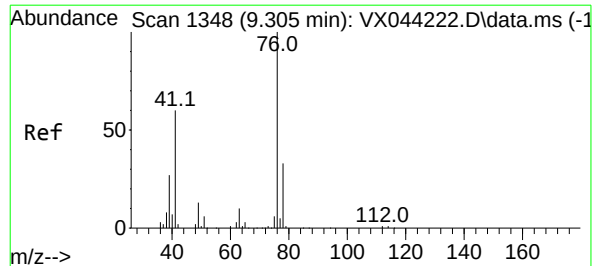
Ion Ratio Lower Upper

69 100

41 69.4 56.6 85.0

39 46.1 37.4 56.0





#57

1,3-Dichloropropane

Concen: 98.704 ug/l

RT: 9.305 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 76 Resp: 274642

Ion Ratio Lower Upper

76 100

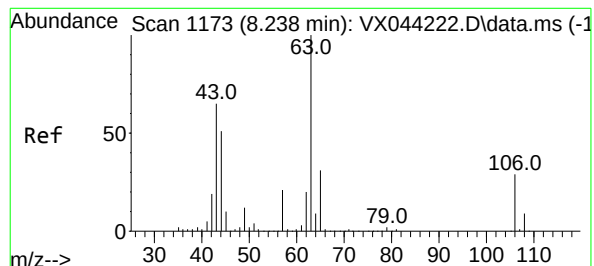
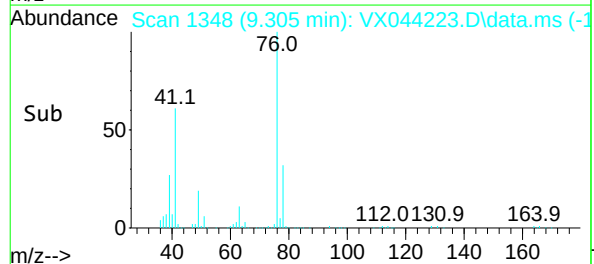
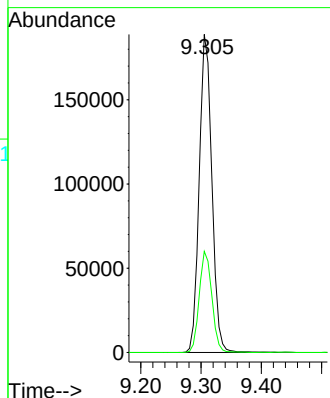
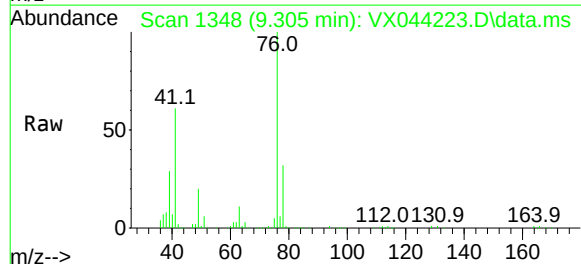
78 31.9 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#58

2-Chloroethyl Vinyl ether

Concen: 527.342 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044223.D

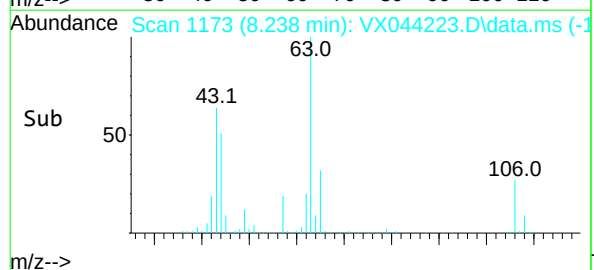
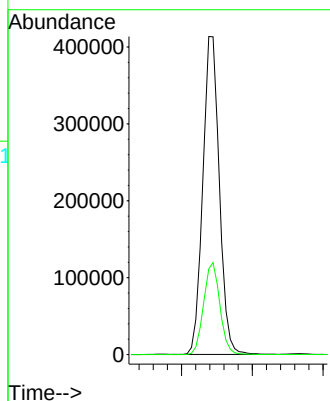
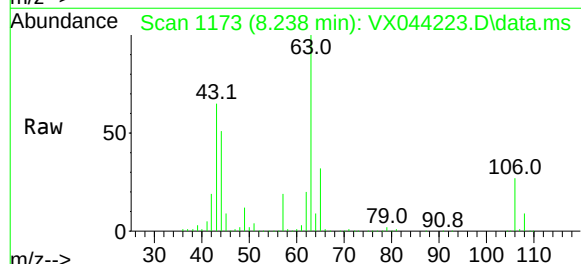
Acq: 11 Dec 2024 12:37

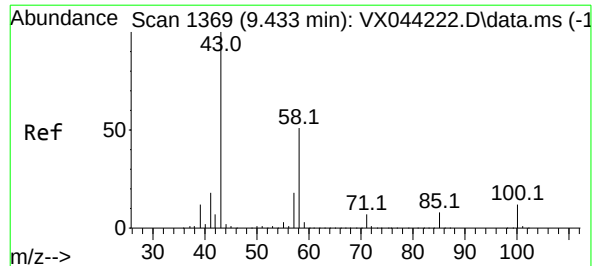
Tgt Ion: 63 Resp: 671233

Ion Ratio Lower Upper

63 100

106 28.4 22.8 34.2





#59

2-Hexanone

Concen: 521.401 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 989466

Ion Ratio Lower Upper

43 100

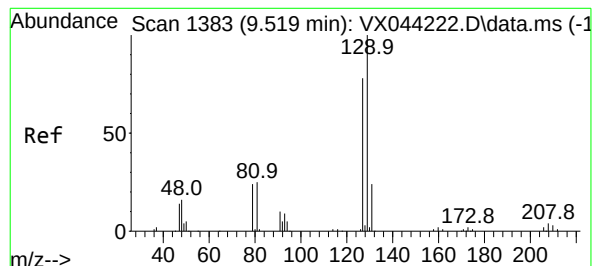
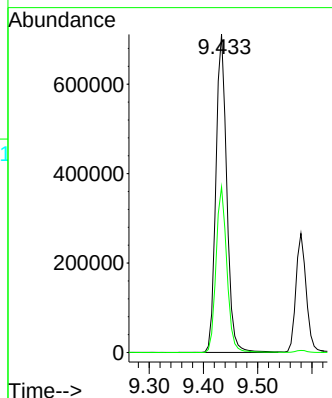
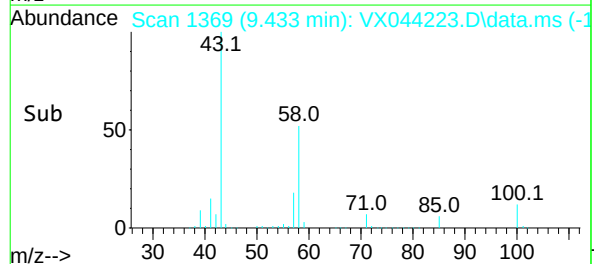
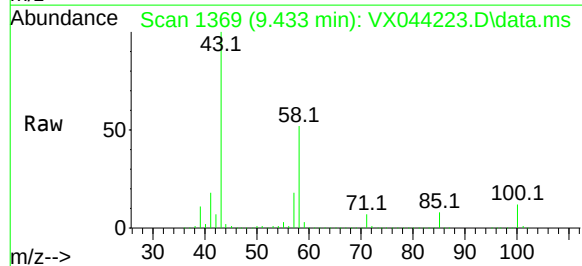
58 51.9 25.7 77.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#60

Dibromochloromethane

Concen: 99.480 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX044223.D

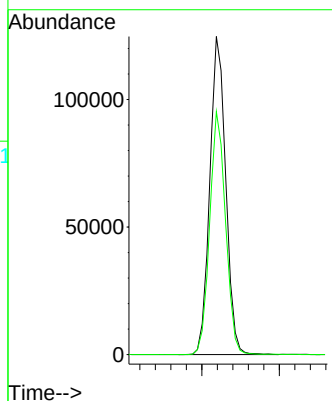
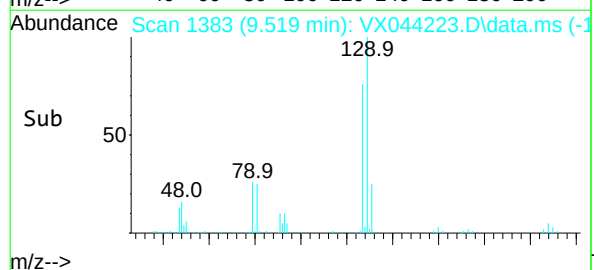
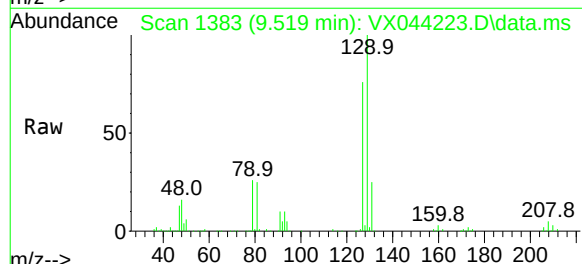
Acq: 11 Dec 2024 12:37

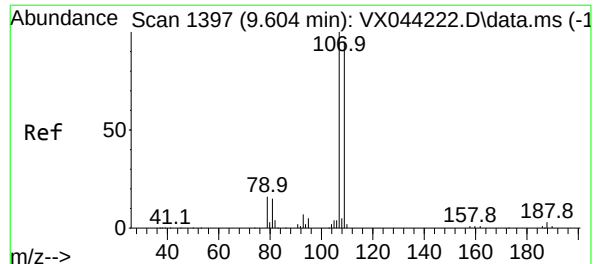
Tgt Ion:129 Resp: 178135

Ion Ratio Lower Upper

129 100

127 76.0 38.5 115.3





#61

1,2-Dibromoethane

Concen: 105.371 ug/l

RT: 9.610 min Scan# 1397

Delta R.T. 0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:107 Resp: 171458

Ion Ratio Lower Upper

107 100

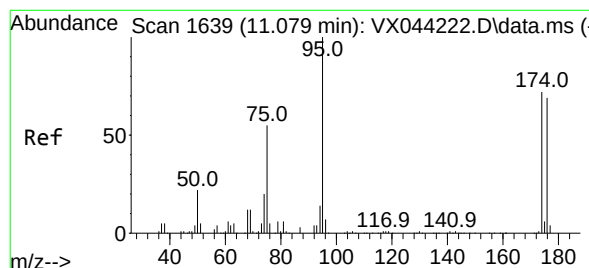
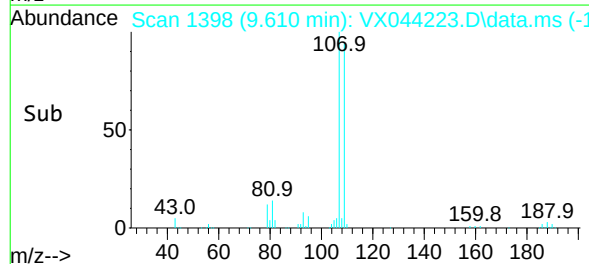
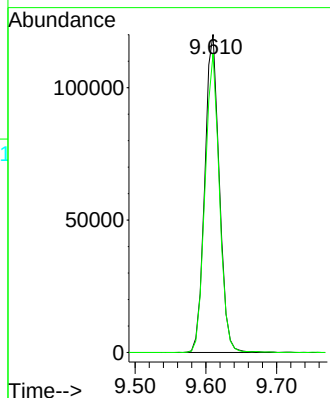
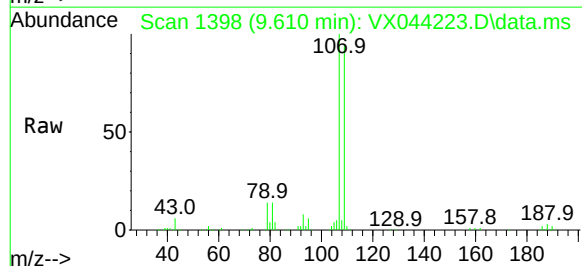
109 93.1 77.0 115.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#62

4-Bromofluorobenzene

Concen: 105.830 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

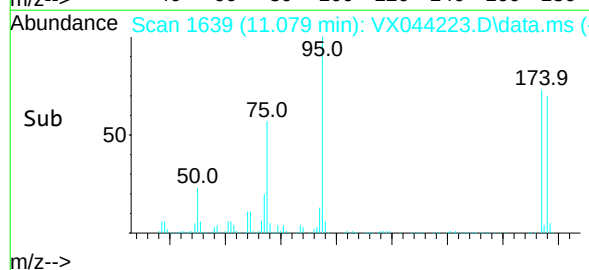
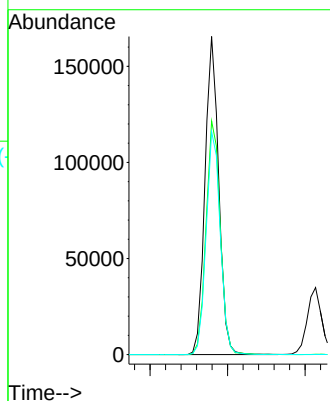
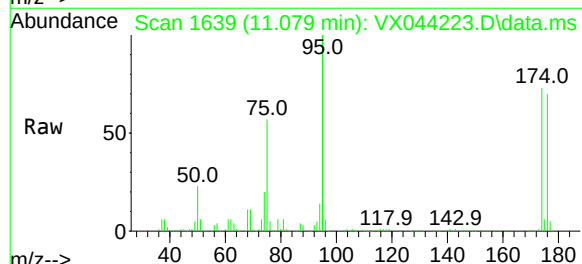
Tgt Ion: 95 Resp: 203694

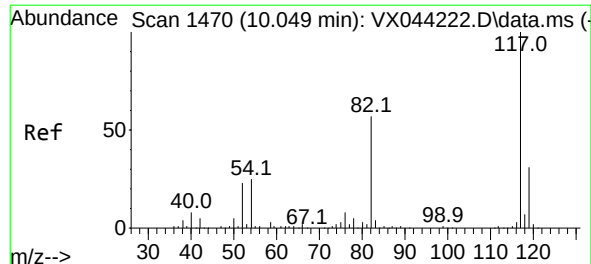
Ion Ratio Lower Upper

95 100

174 76.0 0.0 145.8

176 72.0 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

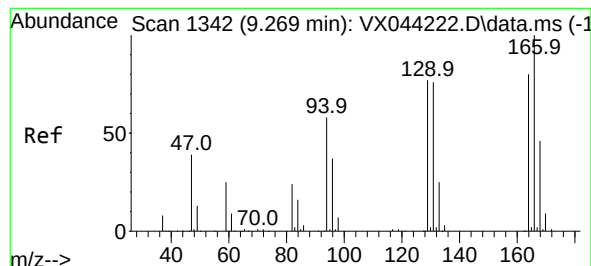
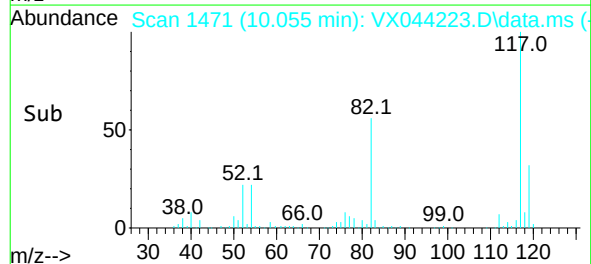
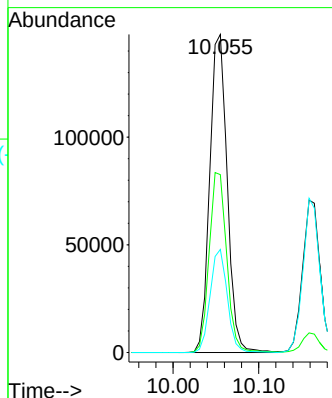
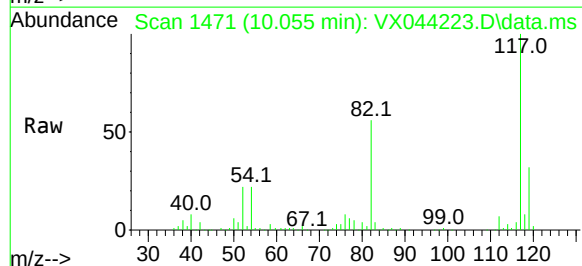
VSTDICC100

Tgt Ion:	117	Resp:	209164
Ion	Ratio	Lower	Upper
117	100		
82	55.9	45.8	68.8
119	32.4	25.0	37.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#64

Tetrachloroethene

Concen: 94.131 ug/l

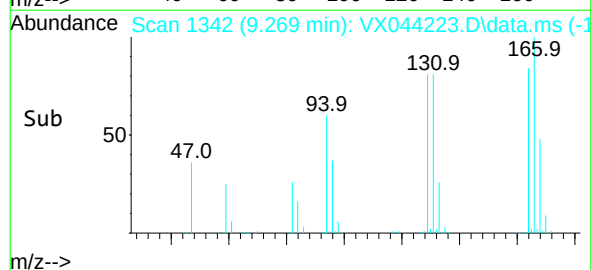
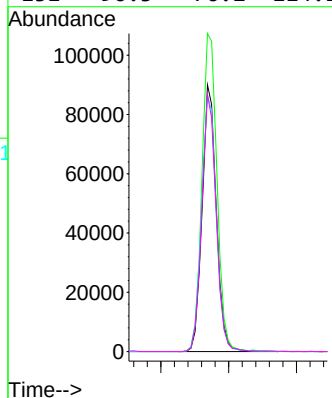
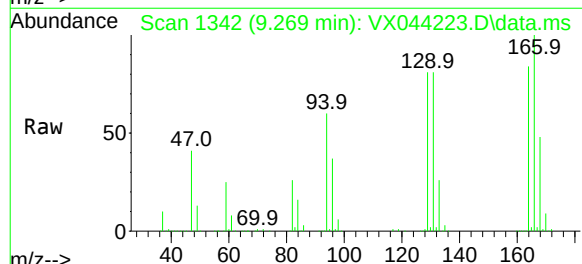
RT: 9.269 min Scan# 1342

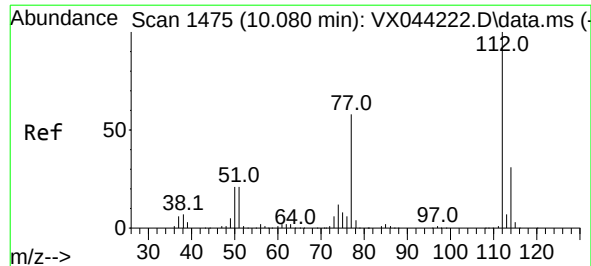
Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Tgt Ion:	164	Resp:	130678
Ion	Ratio	Lower	Upper
164	100		
166	119.2	100.4	150.6
129	96.1	77.2	115.8
131	96.3	76.2	114.2





#65

Chlorobenzene

Concen: 96.650 ug/l

RT: 10.080 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:112 Resp: 433179

Ion Ratio Lower Upper

112 100

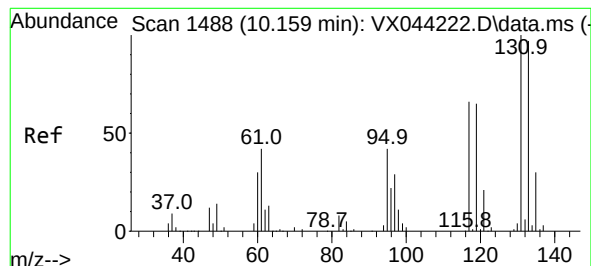
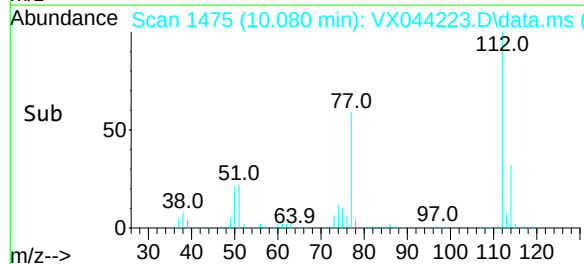
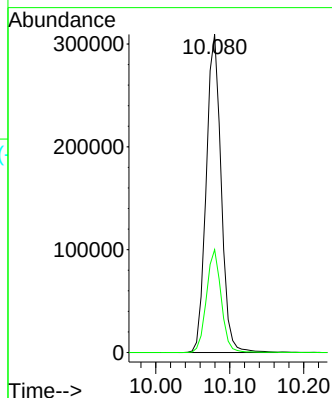
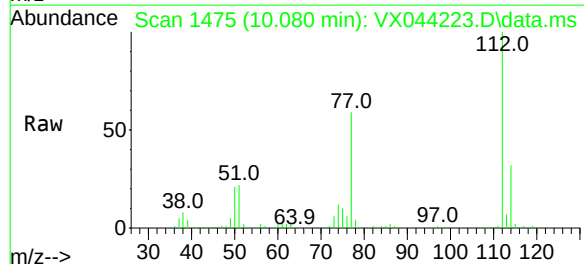
114 32.3 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 106.831 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

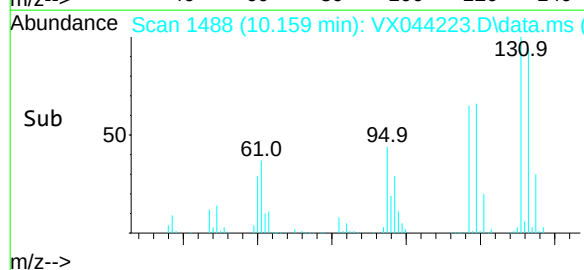
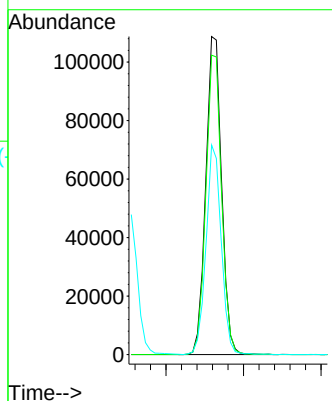
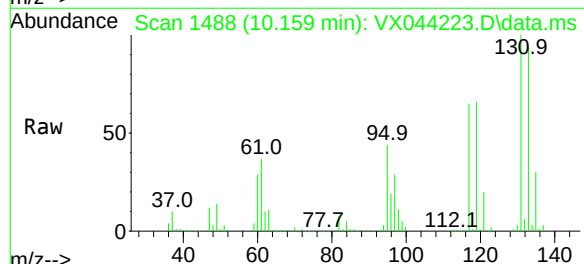
Tgt Ion:131 Resp: 153882

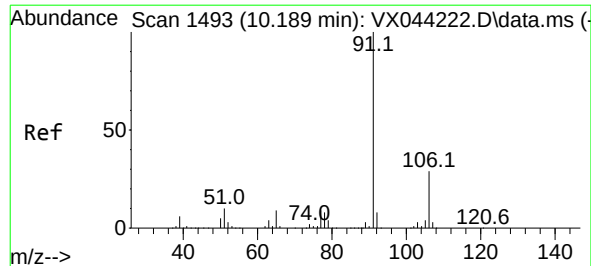
Ion Ratio Lower Upper

131 100

133 93.6 47.3 141.8

119 63.5 31.6 95.0





#67

Ethyl Benzene

Concen: 98.906 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. 0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 765936

Ion Ratio Lower Upper

91 100

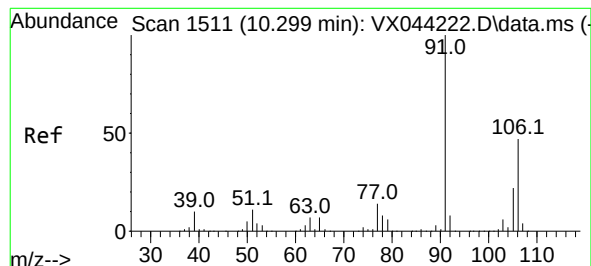
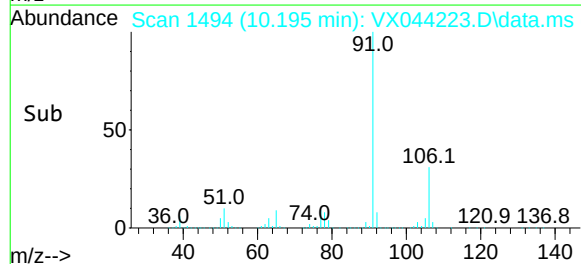
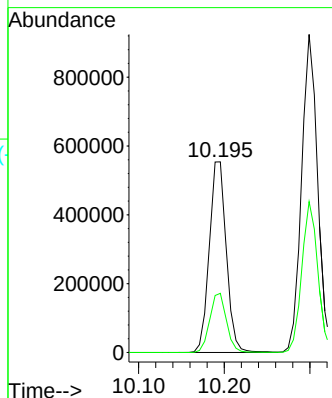
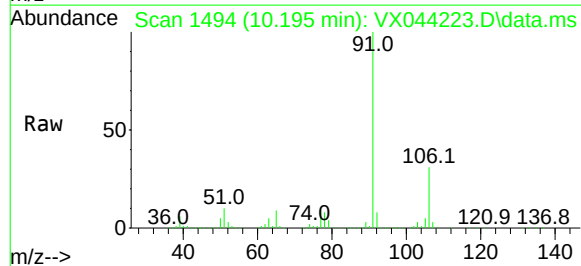
106 31.0 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#68

m/p-Xylenes

Concen: 201.171 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX044223.D

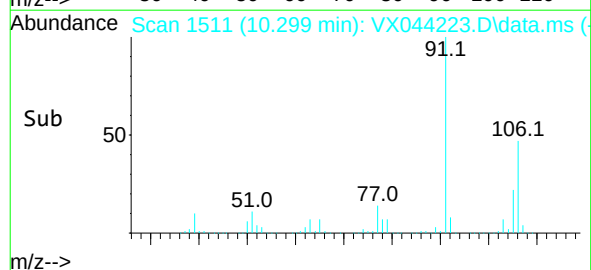
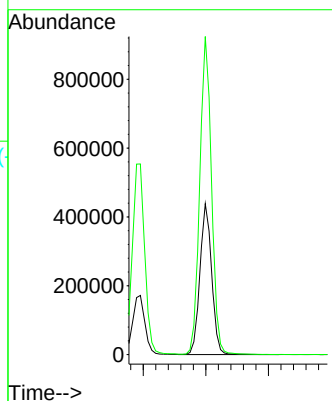
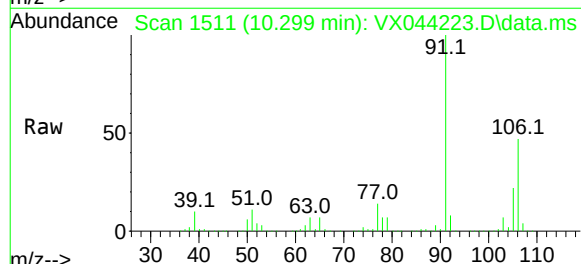
Acq: 11 Dec 2024 12:37

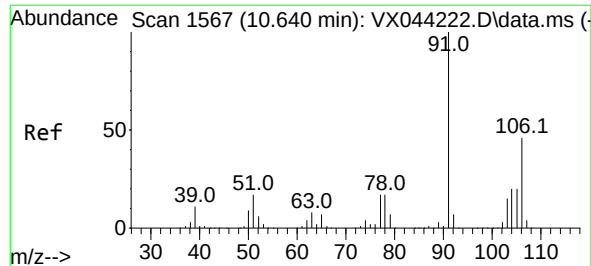
Tgt Ion:106 Resp: 571648

Ion Ratio Lower Upper

106 100

91 211.0 170.2 255.2





#69

o-Xylene

Concen: 97.597 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:106 Resp: 280603

Ion Ratio Lower Upper

106 100

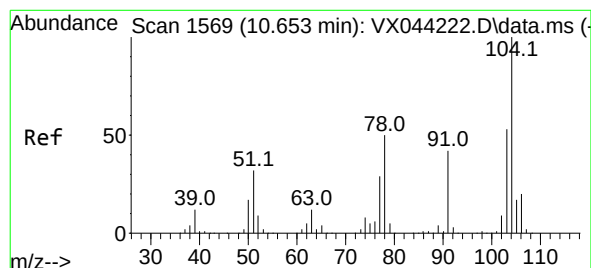
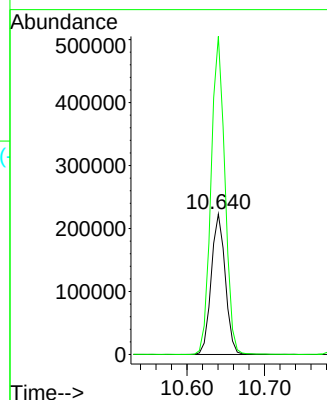
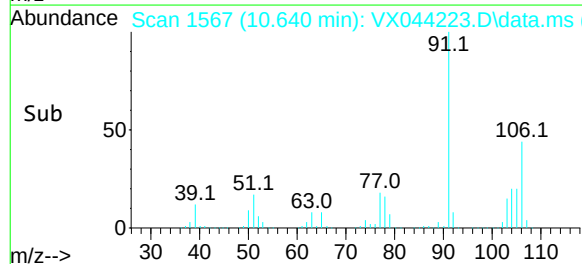
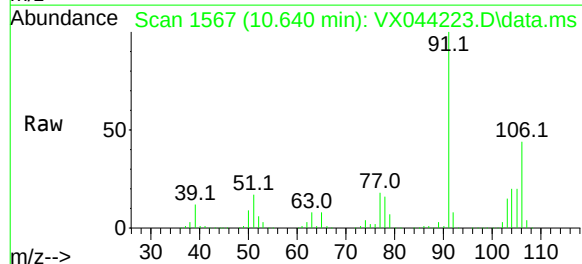
91 223.9 112.3 337.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#70

Styrene

Concen: 104.159 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

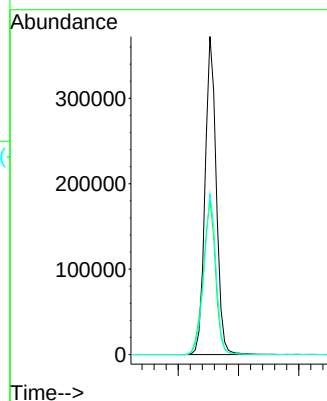
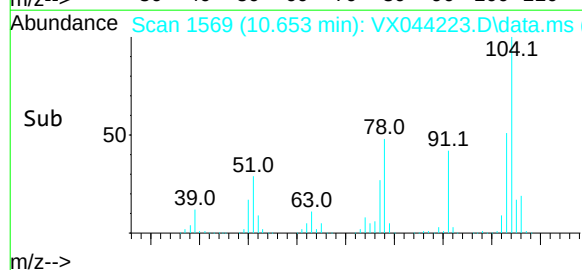
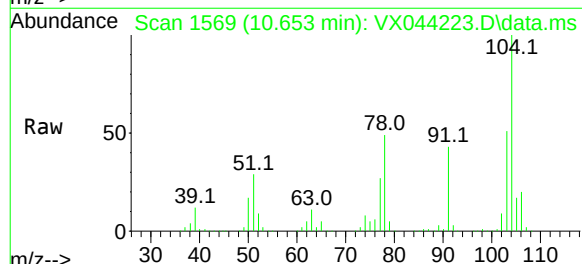
Tgt Ion:104 Resp: 480077

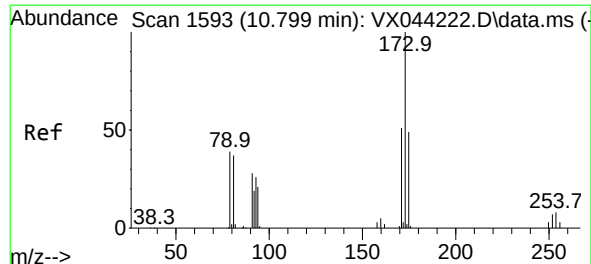
Ion Ratio Lower Upper

104 100

78 53.5 44.6 67.0

103 54.5 45.4 68.0





#71

Bromoform

Concen: 99.723 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:173 Resp: 112482

Ion Ratio Lower Upper

173 100

175 49.2 23.8 71.4

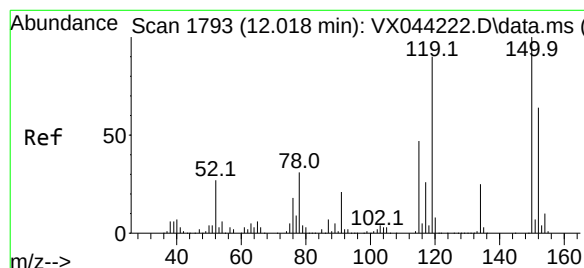
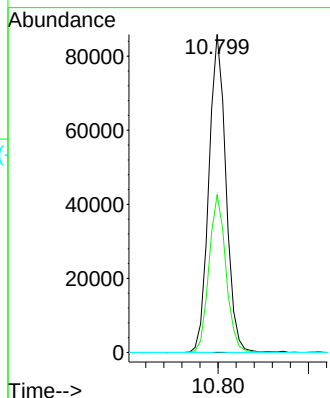
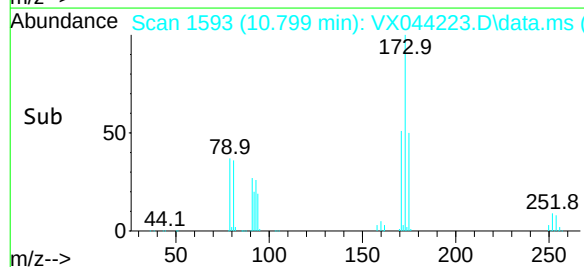
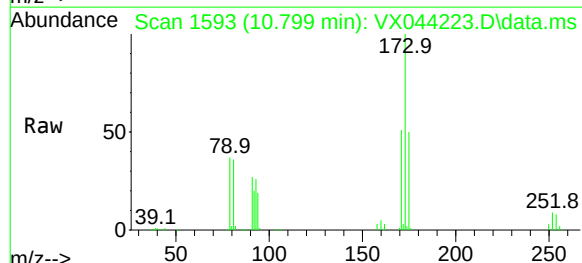
254 0.1 0.0 0.0#

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

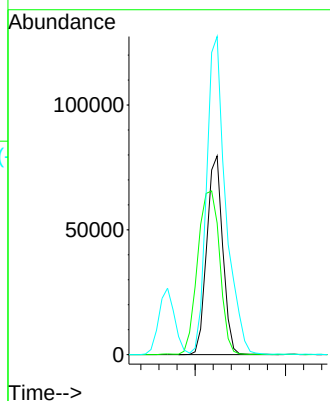
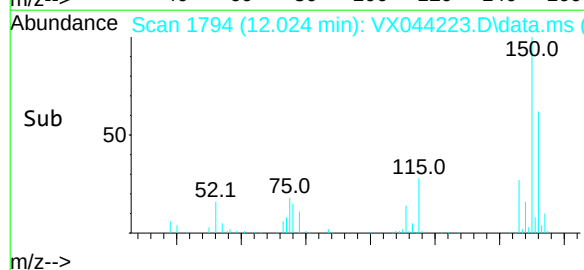
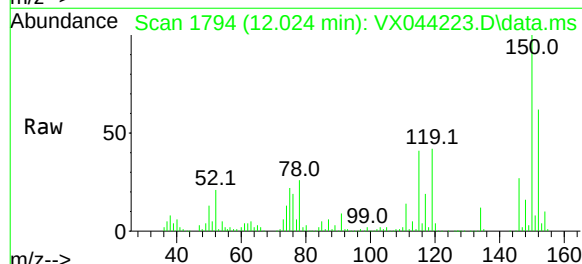
Tgt Ion:152 Resp: 97670

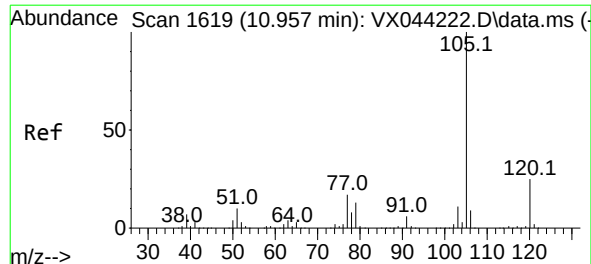
Ion Ratio Lower Upper

152 100

115 114.3 44.5 133.3

150 190.6 0.0 353.8





#73

Isopropylbenzene

Concen: 97.894 ug/l

RT: 10.964 min Scan# 1619

Delta R.T. 0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 105 Resp: 731955

Ion Ratio Lower Upper

105 100

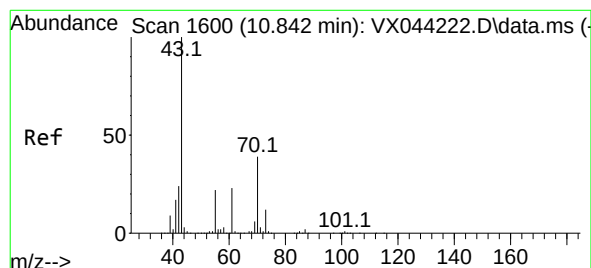
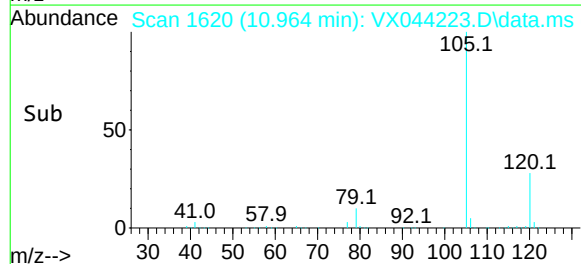
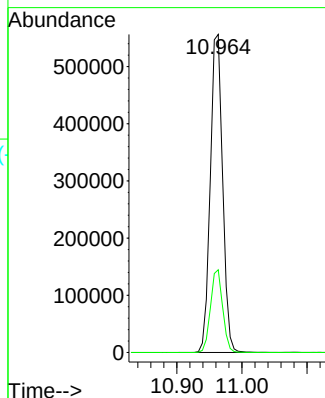
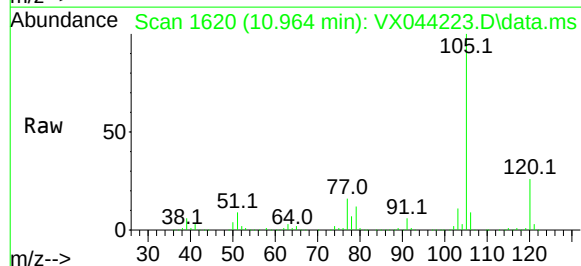
120 25.7 13.1 39.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#74

N-ethyl acetate

Concen: 107.485 ug/l

RT: 10.842 min Scan# 1600

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 371420

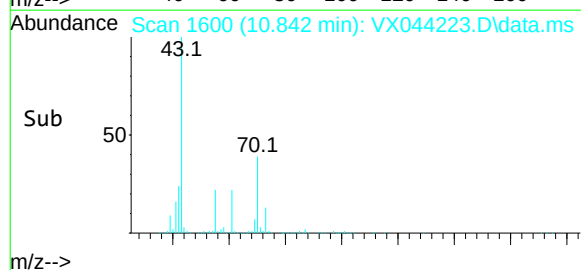
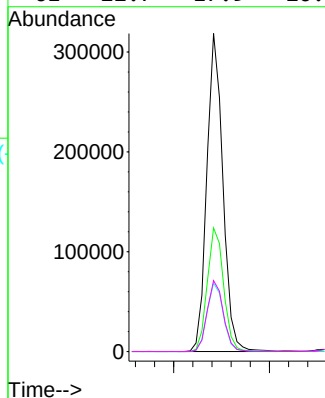
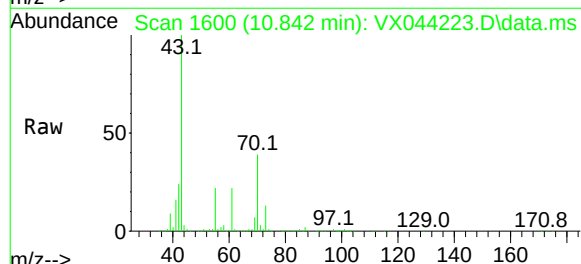
Ion Ratio Lower Upper

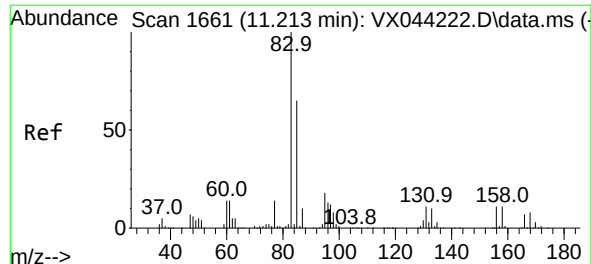
43 100

70 39.7 31.9 47.9

55 22.2 17.9 26.9

61 22.7 17.9 26.9





#75

1,1,2,2-Tetrachloroethane

Concen: 94.491 ug/l

RT: 11.214 min Scan# 1661

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

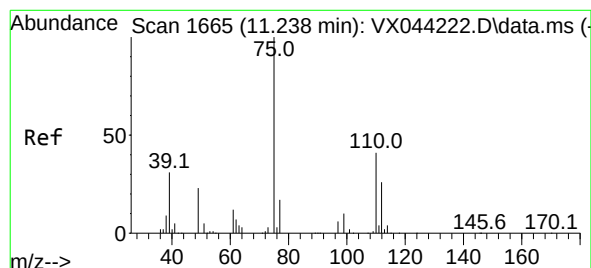
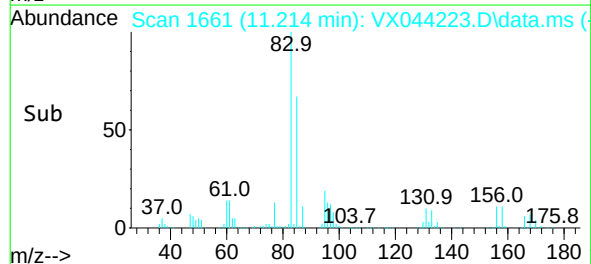
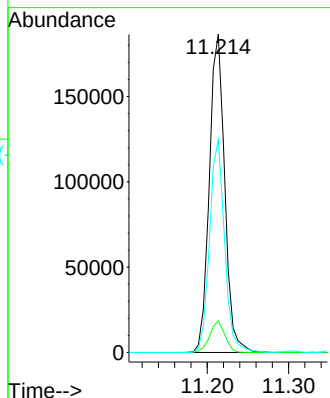
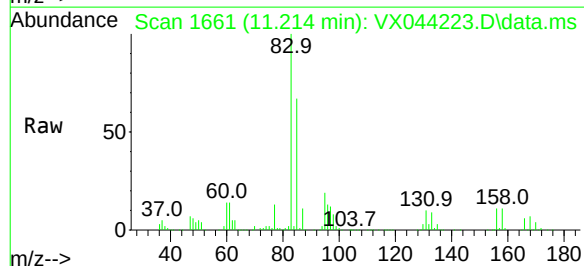
ClientSampleId :

VSTDIC100

Tgt Ion:	83	Resp:	245395
Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.1	15.4
85	65.4	32.5	97.4

**Manual Integrations
APPROVED**

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#76

1,2,3-Trichloropropane

Concen: 93.302 ug/l m

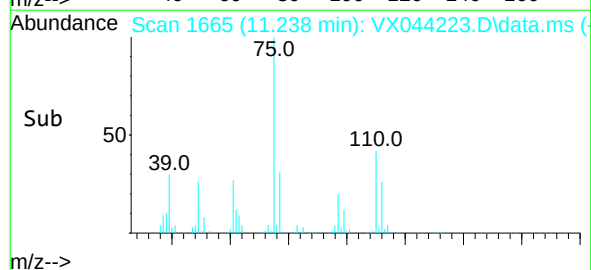
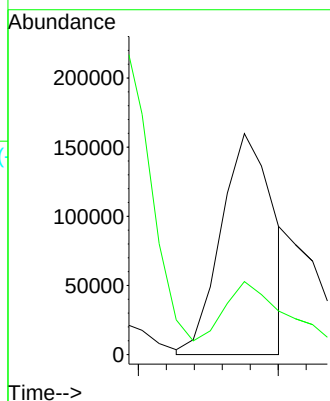
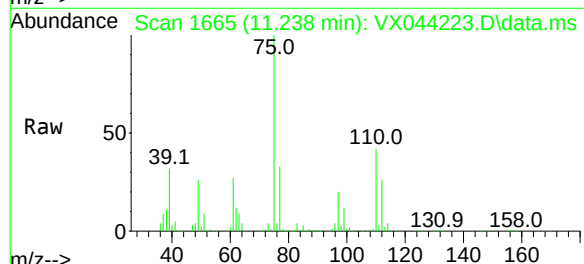
RT: 11.238 min Scan# 1665

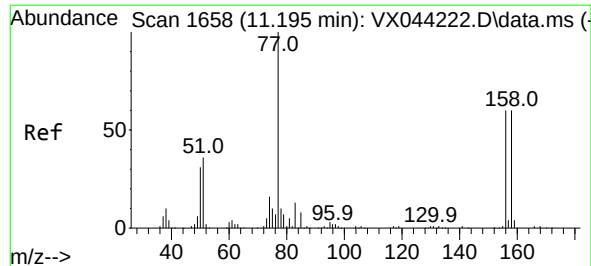
Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Tgt Ion:	75	Resp:	206786
Ion	Ratio	Lower	Upper
75	100		
77	43.4	20.9	62.7





#77

Bromobenzene

Concen: 96.874 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

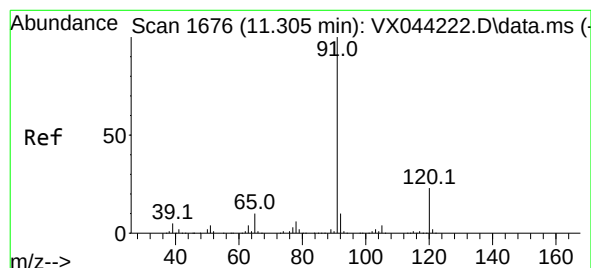
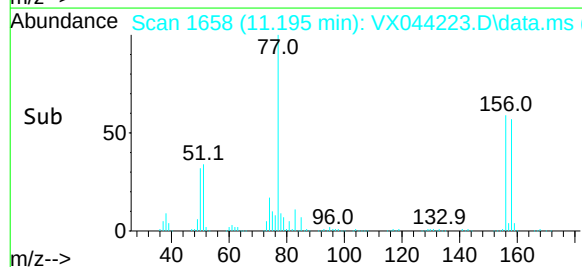
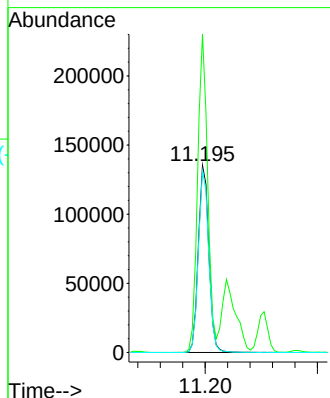
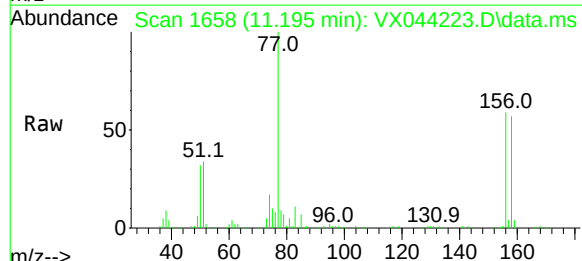
ClientSampleId :

VSTDICC100

Tgt Ion:	156	Resp:	175647
Ion	Ratio	Lower	Upper
156	100		
77	162.7	82.6	247.8
158	96.2	48.8	146.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#78

n-propylbenzene

Concen: 101.242 ug/l

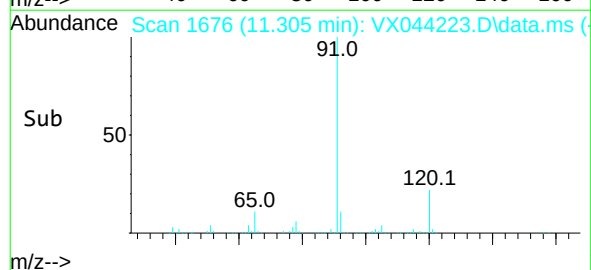
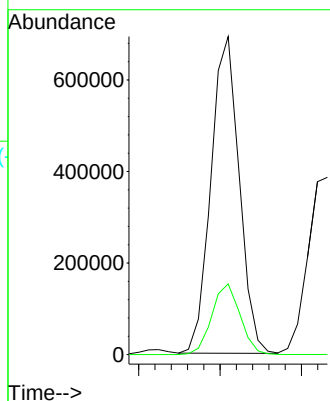
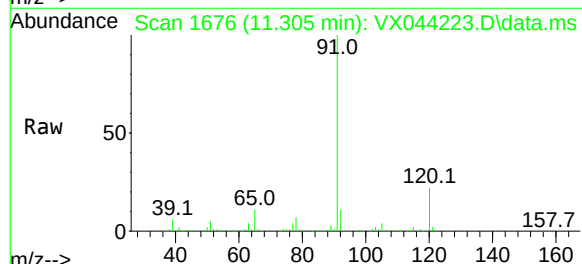
RT: 11.305 min Scan# 1676

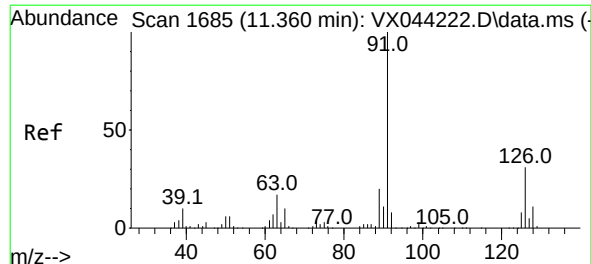
Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Tgt Ion:	91	Resp:	836676
Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.0	33.0





#79

2-Chlorotoluene

Concen: 94.377 ug/l

RT: 11.366 min Scan# 1685

Delta R.T. 0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 504407

Ion Ratio Lower Upper

91 100

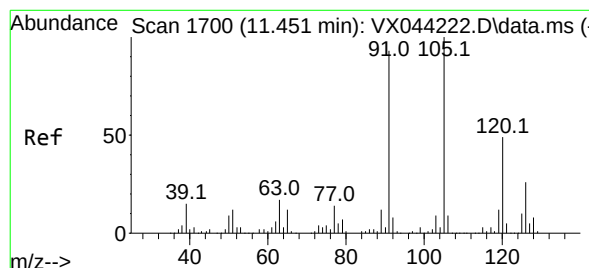
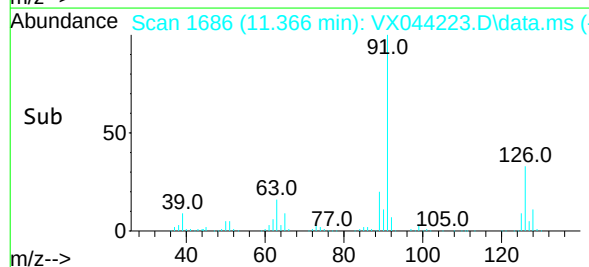
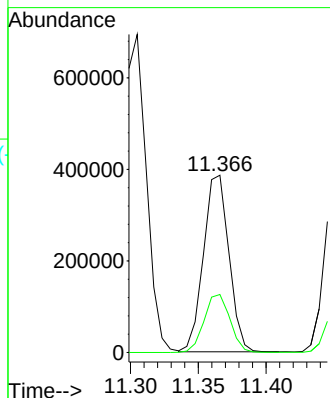
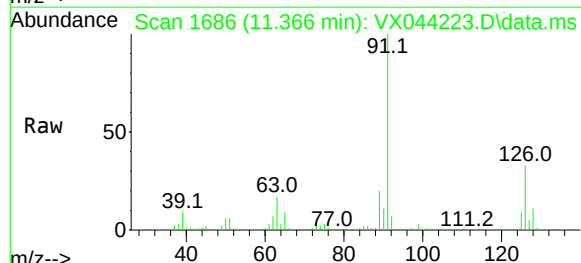
126 33.5 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#80

1,3,5-Trimethylbenzene

Concen: 97.570 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX044223.D

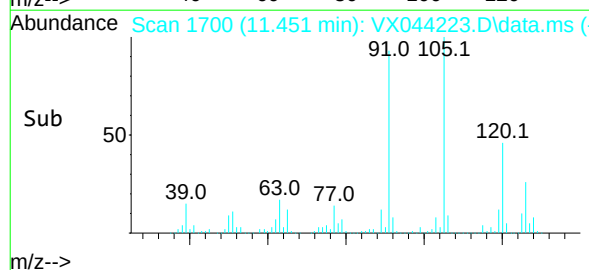
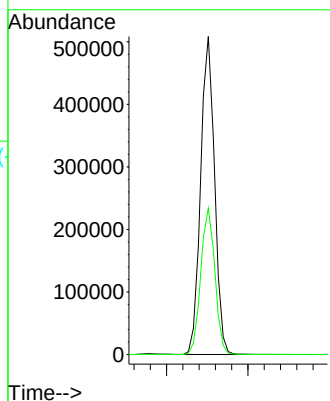
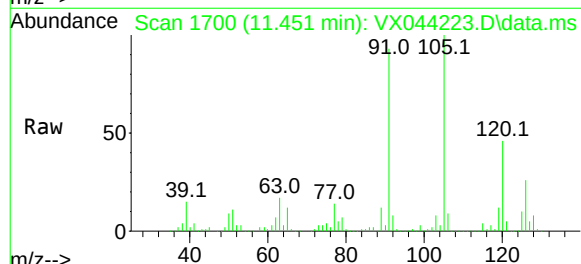
Acq: 11 Dec 2024 12:37

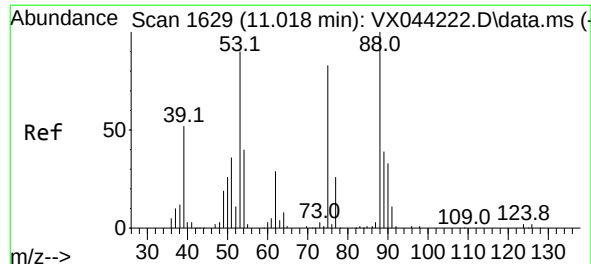
Tgt Ion:105 Resp: 604993

Ion Ratio Lower Upper

105 100

120 46.7 23.8 71.4





#81

trans-1,4-Dichloro-2-butene

Concen: 97.165 ug/l

RT: 11.018 min Scan# 1629

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

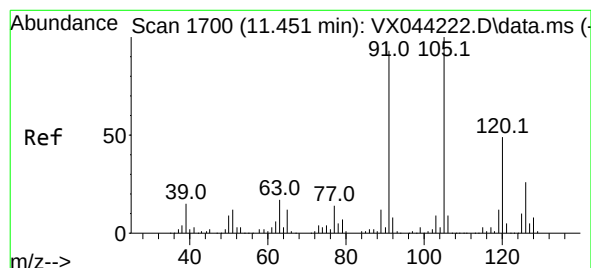
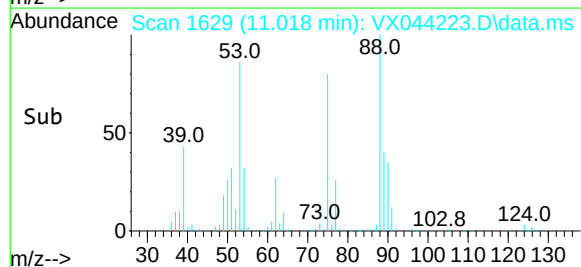
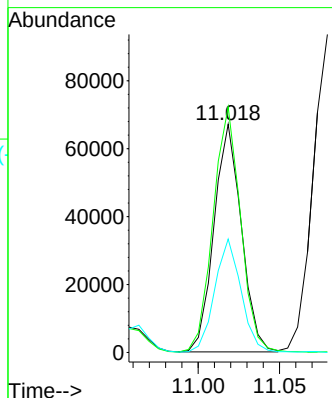
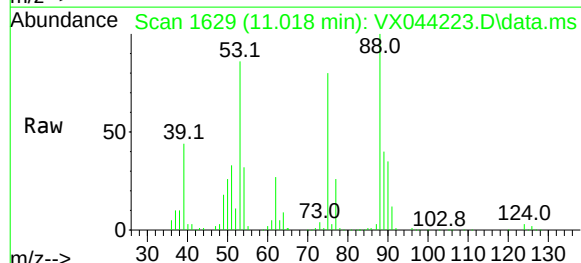
ClientSampleId :

VSTDICC100

Tgt Ion:	75	Resp:	78453
Ion	Ratio	Lower	Upper
75	100		
53	107.9	93.6	140.4
89	47.8	37.3	55.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#82

4-Chlorotoluene

Concen: 99.384 ug/l

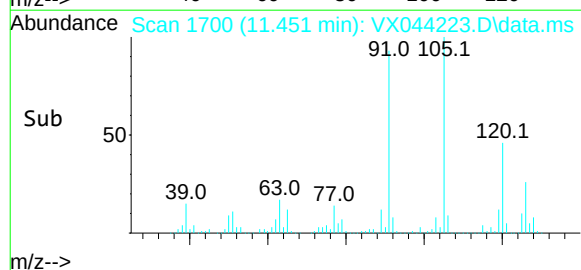
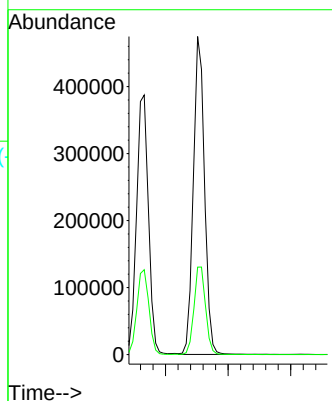
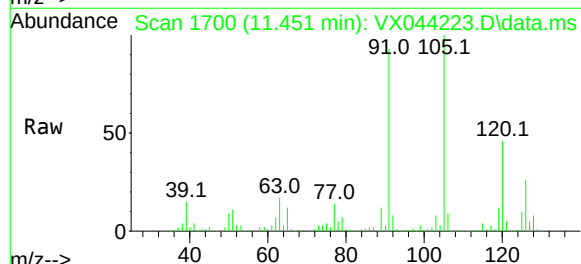
RT: 11.451 min Scan# 1700

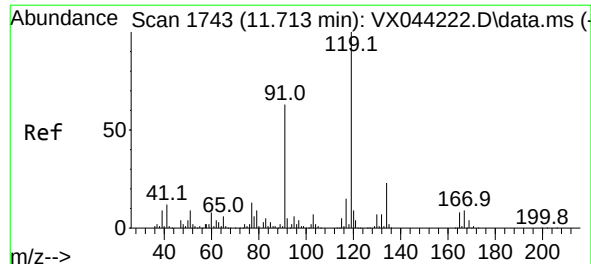
Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Tgt Ion:	91	Resp:	588197
Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.5	43.5





#83

tert-Butylbenzene

Concen: 99.013 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:119 Resp: 606738

Ion Ratio Lower Upper

119 100

91 61.5 30.9 92.5

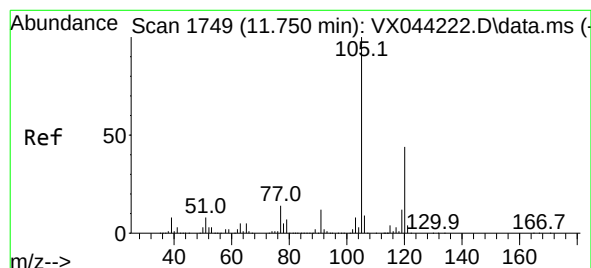
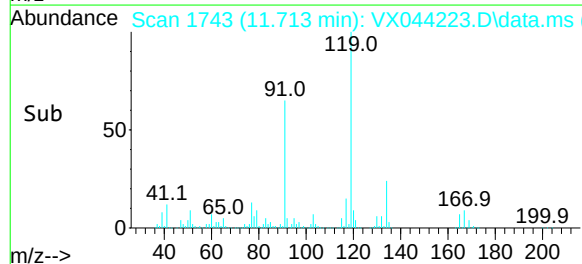
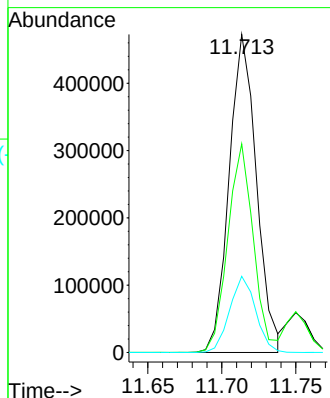
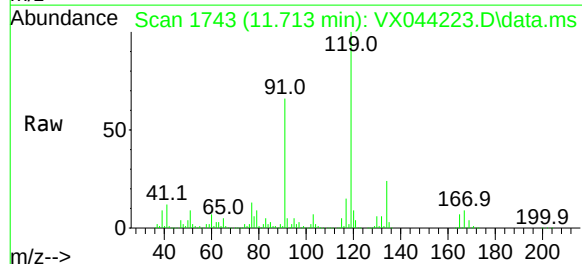
134 22.8 11.5 34.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#84

1,2,4-Trimethylbenzene

Concen: 100.994 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX044223.D

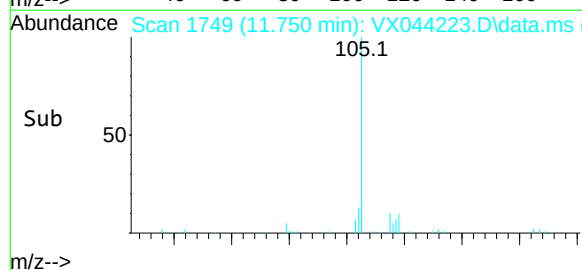
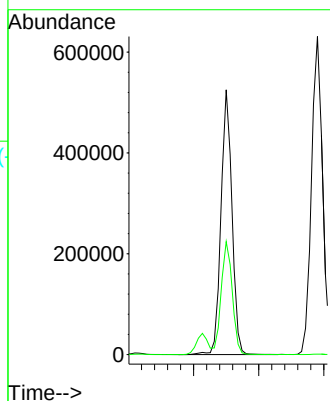
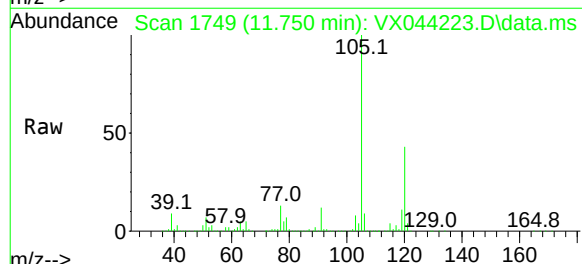
Acq: 11 Dec 2024 12:37

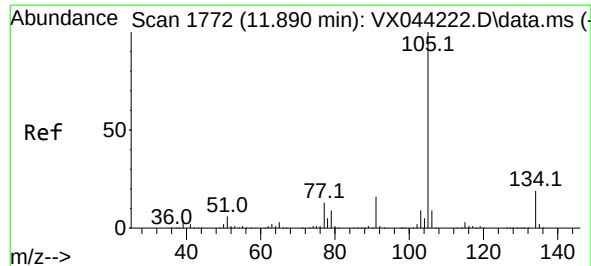
Tgt Ion:105 Resp: 614999

Ion Ratio Lower Upper

105 100

120 43.3 21.7 65.1





#85

sec-Butylbenzene

Concen: 99.889 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:105 Resp: 743098

Ion Ratio Lower Upper

105 100

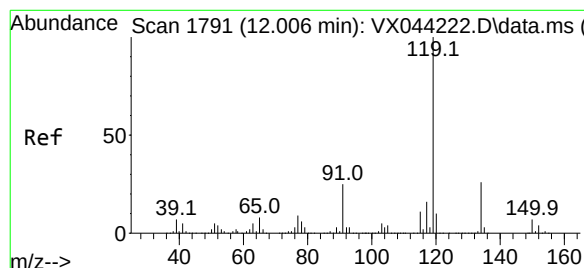
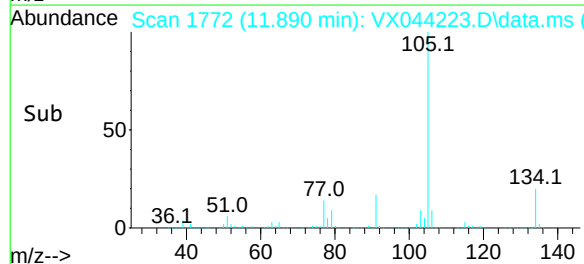
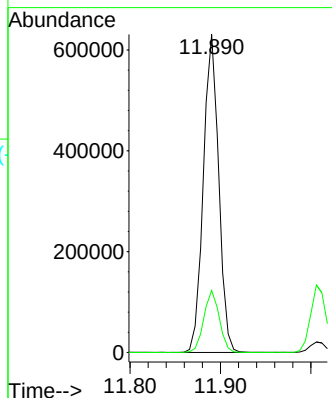
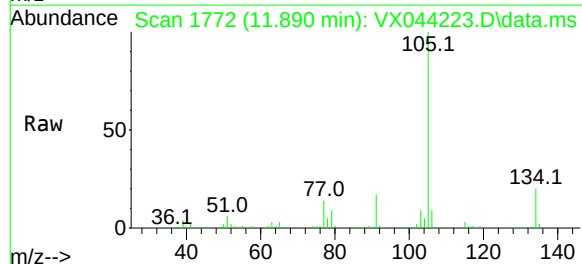
134 19.7 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#86

p-Isopropyltoluene

Concen: 100.847 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

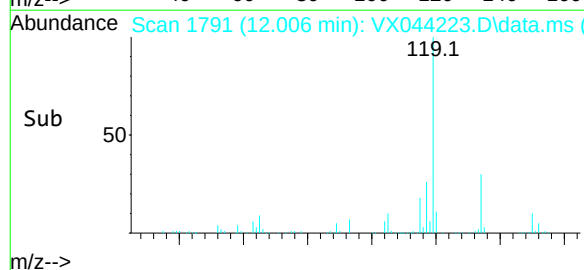
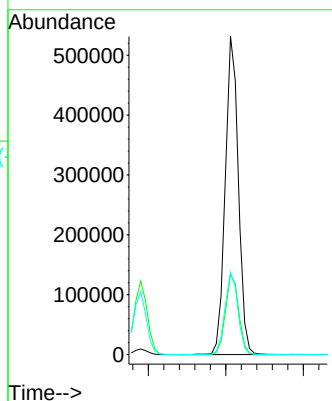
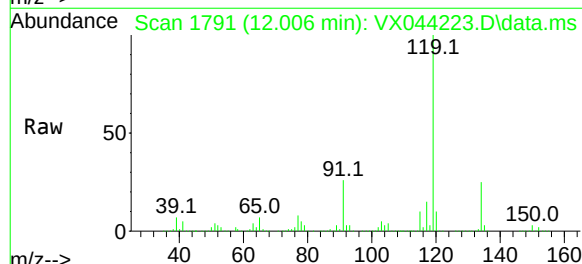
Tgt Ion:119 Resp: 624416

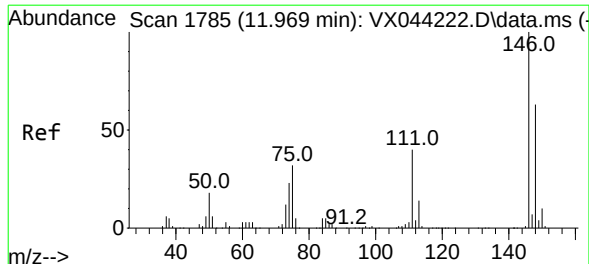
Ion Ratio Lower Upper

119 100

134 25.4 12.8 38.4

91 25.6 13.0 39.0





#87

1,3-Dichlorobenzene

Concen: 100.210 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 317377

Ion Ratio Lower Upper

146 100

111 42.7 21.4 64.2

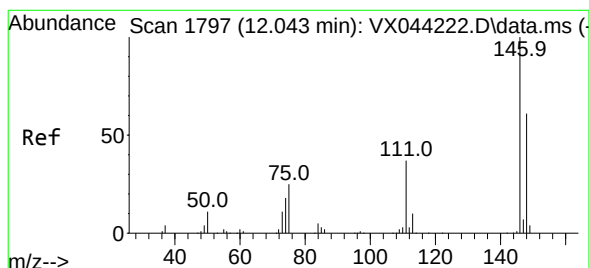
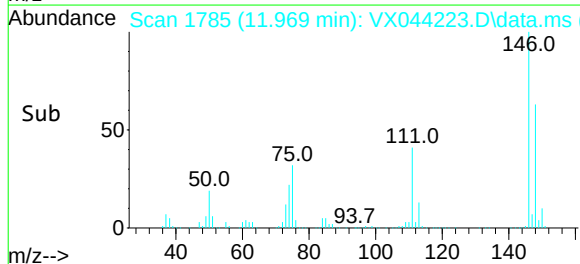
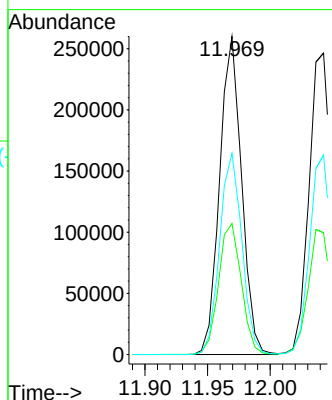
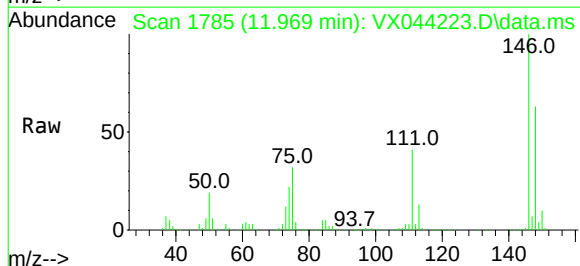
148 64.1 31.7 95.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#88

1,4-Dichlorobenzene

Concen: 97.271 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

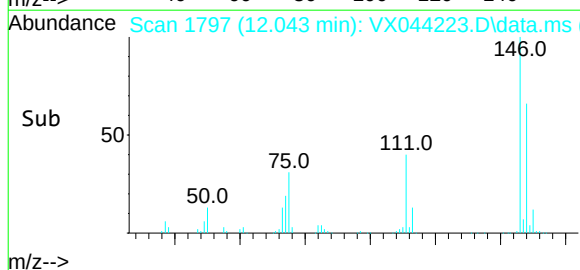
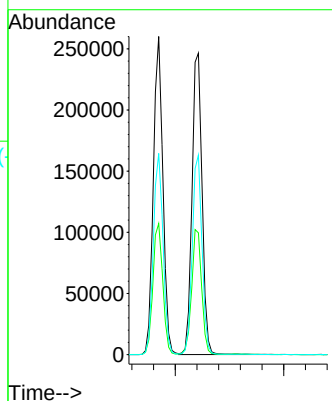
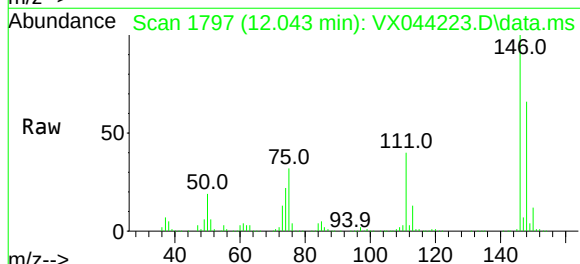
Tgt Ion:146 Resp: 316688

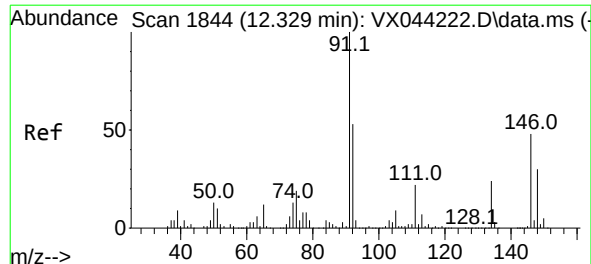
Ion Ratio Lower Upper

146 100

111 41.0 21.0 63.0

148 63.7 32.3 96.8





#89

n-Butylbenzene

Concen: 108.385 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 564303

Ion Ratio Lower Upper

91 100

92 53.2 26.6 79.7

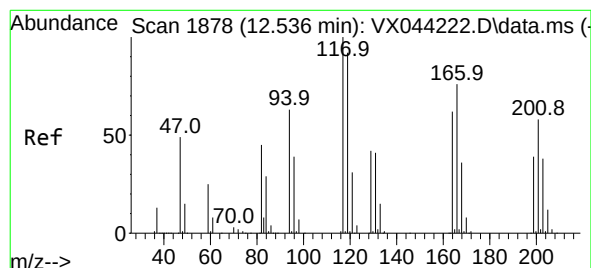
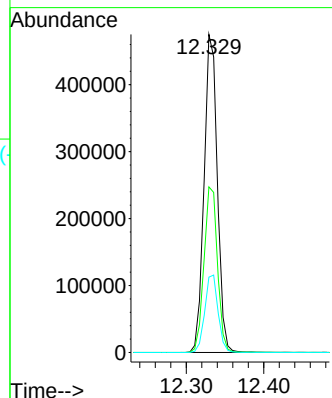
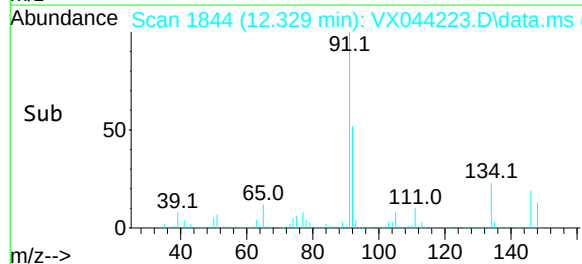
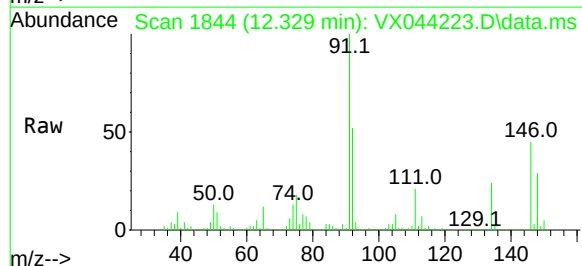
134 24.5 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#90

Hexachloroethane

Concen: 117.218 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX044223.D

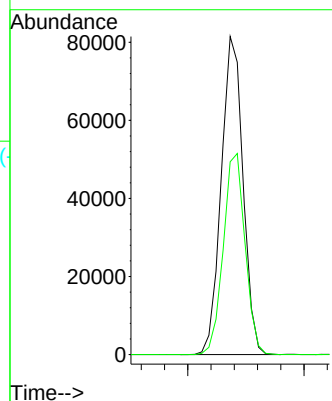
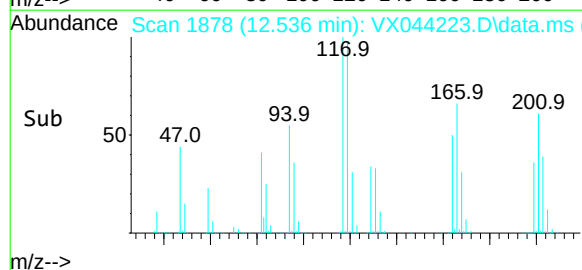
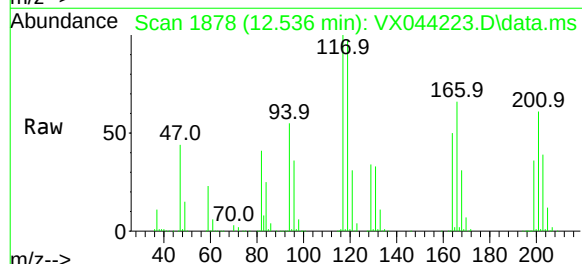
Acq: 11 Dec 2024 12:37

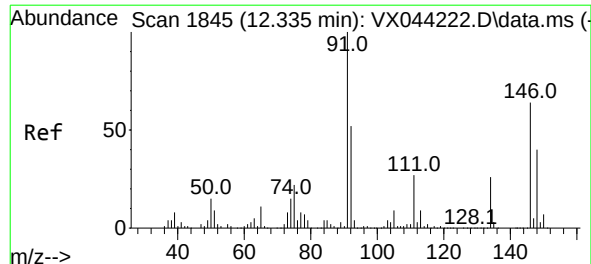
Tgt Ion:117 Resp: 105946

Ion Ratio Lower Upper

117 100

201 63.2 31.4 94.2





#91

1,2-Dichlorobenzene

Concen: 98.232 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 323040

Ion Ratio Lower Upper

146 100

111 43.6 21.4 64.3

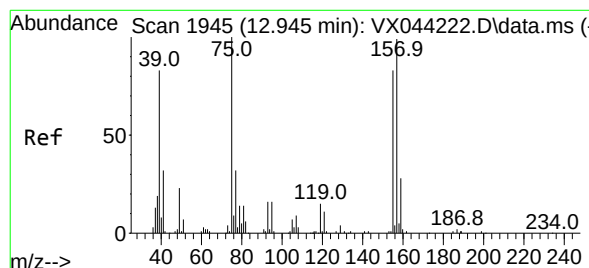
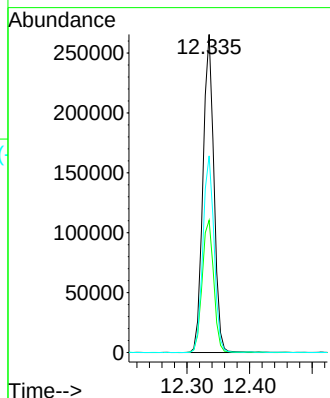
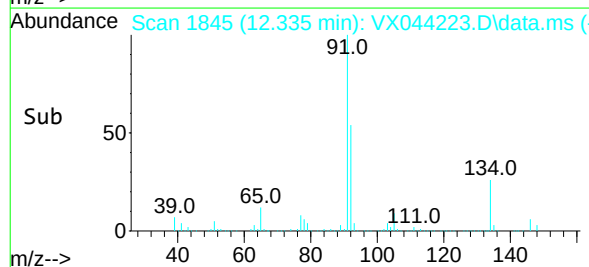
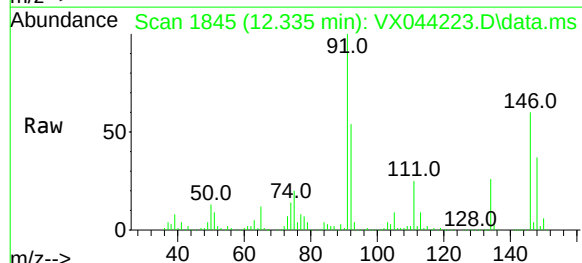
148 62.6 31.6 95.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 108.279 ug/l

RT: 12.939 min Scan# 1944

Delta R.T. -0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

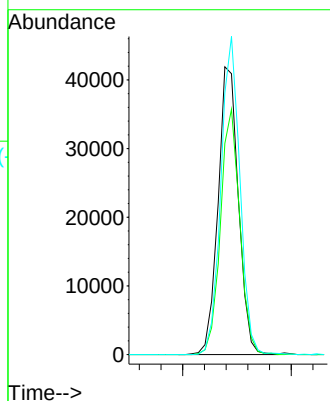
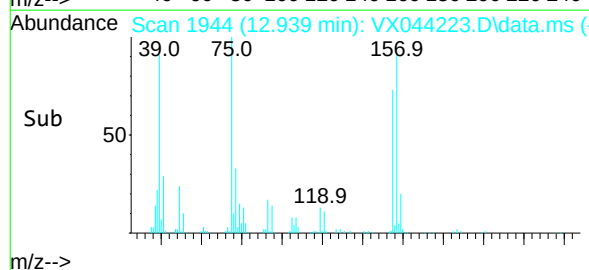
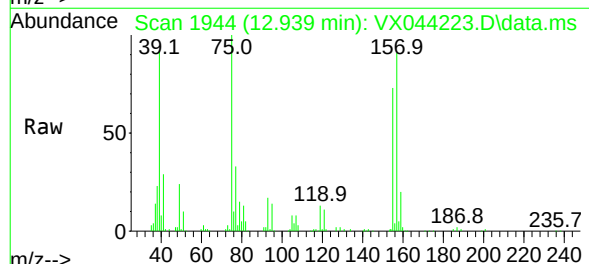
Tgt Ion: 75 Resp: 54588

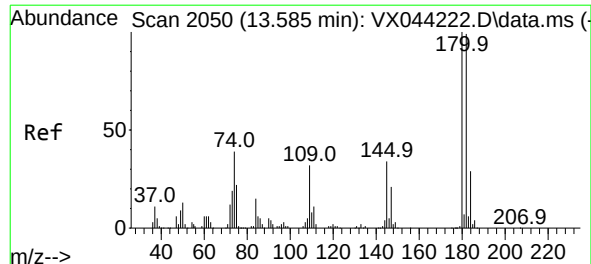
Ion Ratio Lower Upper

75 100

155 80.6 38.1 114.3

157 102.8 47.2 141.6





#93

1,2,4-Trichlorobenzene

Concen: 109.766 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

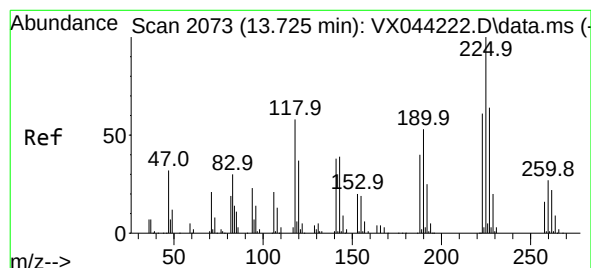
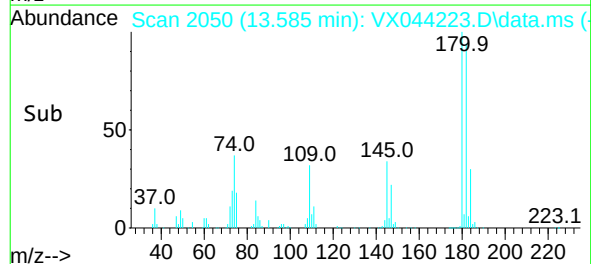
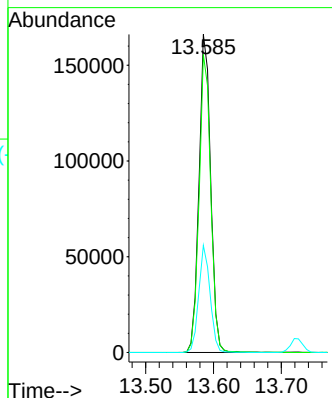
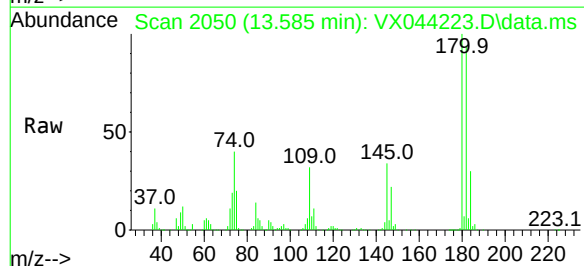
ClientSampleId :

VSTDIC100

Tgt Ion:	180	Resp:	197899
Ion Ratio	Lower	Upper	
180	100		
182	93.5	48.0	144.2
145	32.9	16.6	49.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#94

Hexachlorobutadiene

Concen: 99.908 ug/l

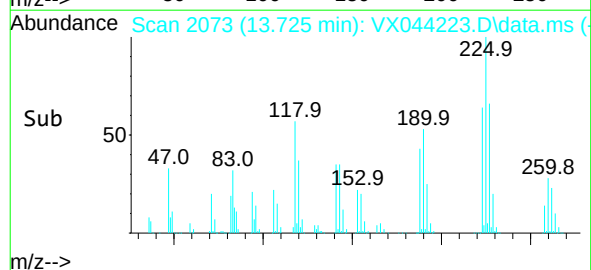
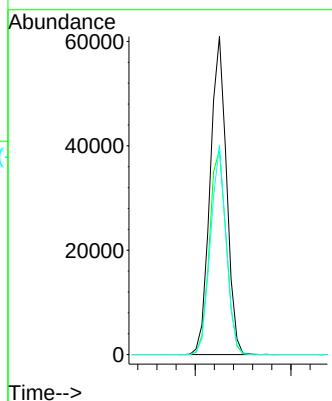
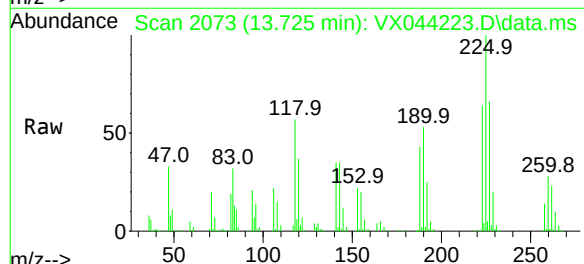
RT: 13.725 min Scan# 2073

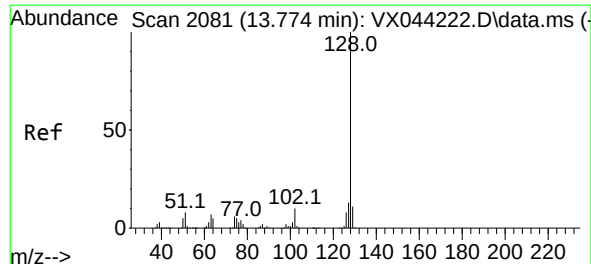
Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Tgt Ion:	225	Resp:	72453
Ion Ratio	Lower	Upper	
225	100		
223	65.5	30.8	92.4
227	62.9	32.1	96.3





#95

Naphthalene

Concen: 107.308 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

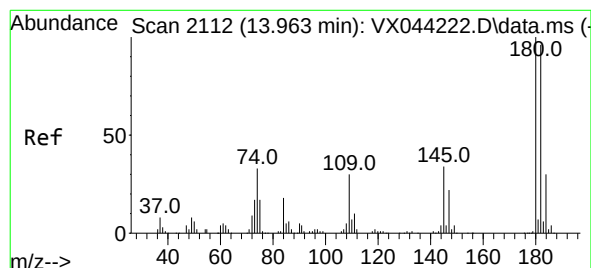
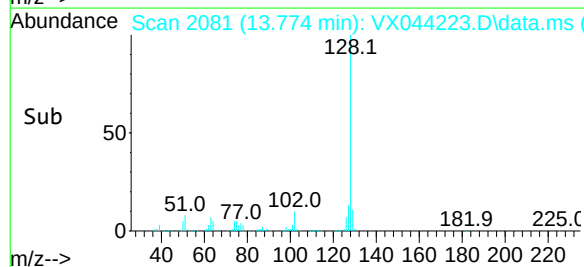
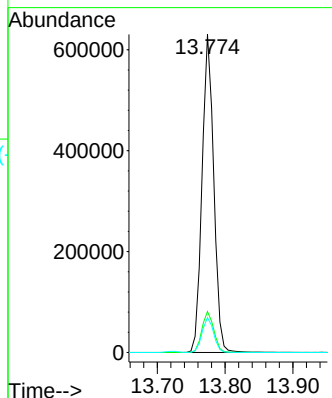
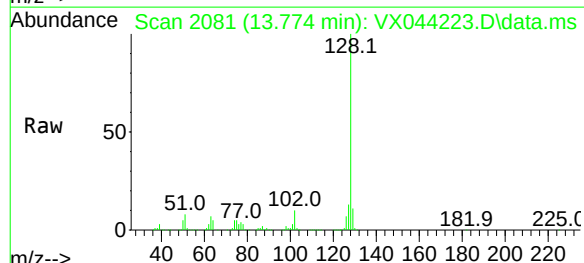
ClientSampleId :

VSTDICC100

Tgt Ion:	128	Resp:	755181
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.5	15.7
129	10.9	9.0	13.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#96

1,2,3-Trichlorobenzene

Concen: 107.754 ug/l

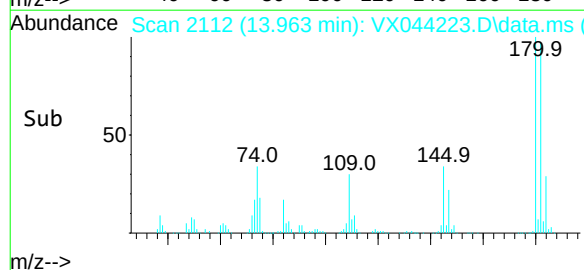
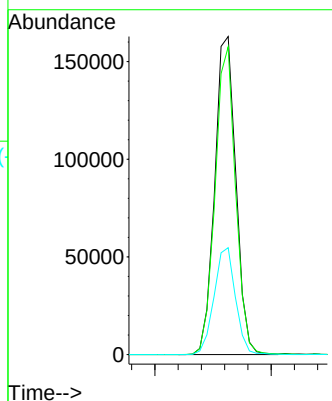
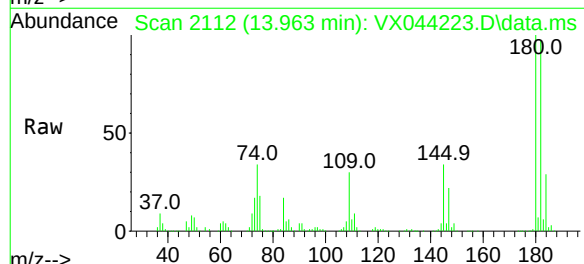
RT: 13.963 min Scan# 2112

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Tgt Ion:	180	Resp:	206053
Ion Ratio	Lower	Upper	
180	100		
182	93.8	48.0	144.0
145	34.1	17.7	53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044224.D
 Acq On : 11 Dec 2024 13:00
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Dec 12 04:16:55 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:11:59 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
 Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	117957	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	218610	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	190013	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	90898	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	314272	151.956	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 303.920%#			
35) Dibromofluoromethane	5.385	113	231937	153.188	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 306.380%#			
50) Toluene-d8	8.647	98	788876	154.438	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 308.880%#			
62) 4-Bromofluorobenzene	11.079	95	279706	156.709	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 313.420%#			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.166	85	268739	147.342	ug/l	98
3) Chloromethane	1.294	50	261734	150.062	ug/l	97
4) Vinyl Chloride	1.374	62	260651	143.446	ug/l	97
5) Bromomethane	1.593	94	194089	150.562	ug/l	100
6) Chloroethane	1.660	64	150640	133.137	ug/l	98
7) Trichlorofluoromethane	1.861	101	500315	140.645	ug/l	99
8) Diethyl Ether	2.136	74	183845	151.407	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.312	101	219513	152.497	ug/l	99
10) Methyl Iodide	2.441	142	284184	149.795	ug/l	99
11) Tert butyl alcohol	3.014	59	266830	916.880	ug/l	98
12) 1,1-Dichloroethene	2.306	96	211016	159.600	ug/l	96
13) Acrolein	2.239	56	341487	809.350	ug/l	100
14) Allyl chloride	2.654	41	346773	157.465	ug/l	99
15) Acrylonitrile	3.068	53	649783	804.774	ug/l	99
16) Acetone	2.392	43	658120	780.537	ug/l	98
17) Carbon Disulfide	2.495	76	481926	191.754	ug/l	99
18) Methyl Acetate	2.709	43	336516	154.792	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	806360	156.286	ug/l	98
20) Methylene Chloride	2.782	84	236412	149.282	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	221622	157.719	ug/l	99
22) Diisopropyl ether	3.763	45	751292	151.500	ug/l	98
23) Vinyl Acetate	3.727	43	3464902	859.417	ug/l	99
24) 1,1-Dichloroethane	3.605	63	431006	155.921	ug/l	100
25) 2-Butanone	4.568	43	957709	798.973	ug/l	99
26) 2,2-Dichloropropane	4.465	77	367781	163.773	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	269708	151.131	ug/l	99
28) Bromochloromethane	4.897	49	200978	148.269	ug/l	100
29) Tetrahydrofuran	5.013	42	602095	782.561	ug/l	99
30) Chloroform	5.092	83	463606	149.274	ug/l	99
31) Cyclohexane	5.458	56	332026	148.745	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	415253	161.073	ug/l	99
36) 1,1-Dichloropropene	5.684	75	290913	148.642	ug/l	99
37) Ethyl Acetate	4.721	43	376757	155.731	ug/l	99
38) Carbon Tetrachloride	5.672	117	346795	164.587	ug/l	98
39) Methylcyclohexane	7.373	83	368542	157.516	ug/l	99
40) Benzene	6.031	78	887413	149.340	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044224.D
 Acq On : 11 Dec 2024 13:00
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Dec 12 04:16:55 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:11:59 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
 Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	199851	155.569	ug/l	99
42) 1,2-Dichloroethane	6.086	62	369874	151.105	ug/l	100
43) Isopropyl Acetate	6.342	43	617107	163.200	ug/l	99
44) Trichloroethene	7.123	130	224164	151.275	ug/l	100
45) 1,2-Dichloropropane	7.427	63	224224	147.697	ug/l	96
46) Dibromomethane	7.580	93	184590	156.728	ug/l	99
47) Bromodichloromethane	7.818	83	352904	173.496	ug/l	98
48) Methyl methacrylate	7.696	41	292890	159.567	ug/l	98
49) 1,4-Dioxane	7.665	88	101048m	3221.248	ug/l	
51) 4-Methyl-2-Pentanone	8.580	43	1907523	784.573	ug/l	99
52) Toluene	8.714	92	557102	149.294	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	366275	150.167	ug/l	95
54) cis-1,3-Dichloropropene	8.366	75	382226	172.581	ug/l	98
55) 1,1,2-Trichloroethane	9.153	97	222665	150.202	ug/l	98
56) Ethyl methacrylate	9.116	69	389165	166.289	ug/l	99
57) 1,3-Dichloropropane	9.305	76	387086	150.014	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.244	63	970949	822.575	ug/l	100
59) 2-Hexanone	9.433	43	1436300	816.161	ug/l	99
60) Dibromochloromethane	9.525	129	261253	150.105	ug/l	99
61) 1,2-Dibromoethane	9.610	107	242451	160.674	ug/l	97
64) Tetrachloroethene	9.269	164	186443	147.836	ug/l	98
65) Chlorobenzene	10.079	112	608404	149.428	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.165	131	218515	166.991	ug/l	100
67) Ethyl Benzene	10.195	91	1068736	151.917	ug/l	98
68) m/p-Xylenes	10.299	106	806058	312.254	ug/l	98
69) o-Xylene	10.640	106	397084	152.030	ug/l	98
70) Styrene	10.652	104	670887	160.228	ug/l	98
71) Bromoform	10.799	173	169450	150.034	ug/l #	99
73) Isopropylbenzene	10.963	105	1021749	146.832	ug/l	99
74) N-amyl acetate	10.841	43	536496	166.823	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	352591	145.883	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	287602m	139.434	ug/l	
77) Bromobenzene	11.201	156	243975	144.584	ug/l	100
78) n-propylbenzene	11.305	91	1166255	151.637	ug/l	98
79) 2-Chlorotoluene	11.366	91	700673	140.866	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	853042	147.824	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	117263	152.670	ug/l	93
82) 4-Chlorotoluene	11.451	91	825278	149.831	ug/l	99
83) tert-Butylbenzene	11.713	119	846864	148.495	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	846771	149.414	ug/l	100
85) sec-Butylbenzene	11.890	105	1034419	149.409	ug/l	99
86) p-Isopropyltoluene	12.006	119	875562	151.944	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	443826	150.575	ug/l	99
88) 1,4-Dichlorobenzene	12.042	146	442556	146.058	ug/l	99
89) n-Butylbenzene	12.329	91	808399	166.836	ug/l	100
90) Hexachloroethane	12.536	117	154726	183.942	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	447931	146.357	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	83565	178.106	ug/l	93
93) 1,2,4-Trichlorobenzene	13.585	180	288519	171.952	ug/l	98
94) Hexachlorobutadiene	13.725	225	103961	154.036	ug/l	98
95) Naphthalene	13.774	128	1094997	167.187	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	293760	165.064	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044224.D
Acq On : 11 Dec 2024 13:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:16:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

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

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

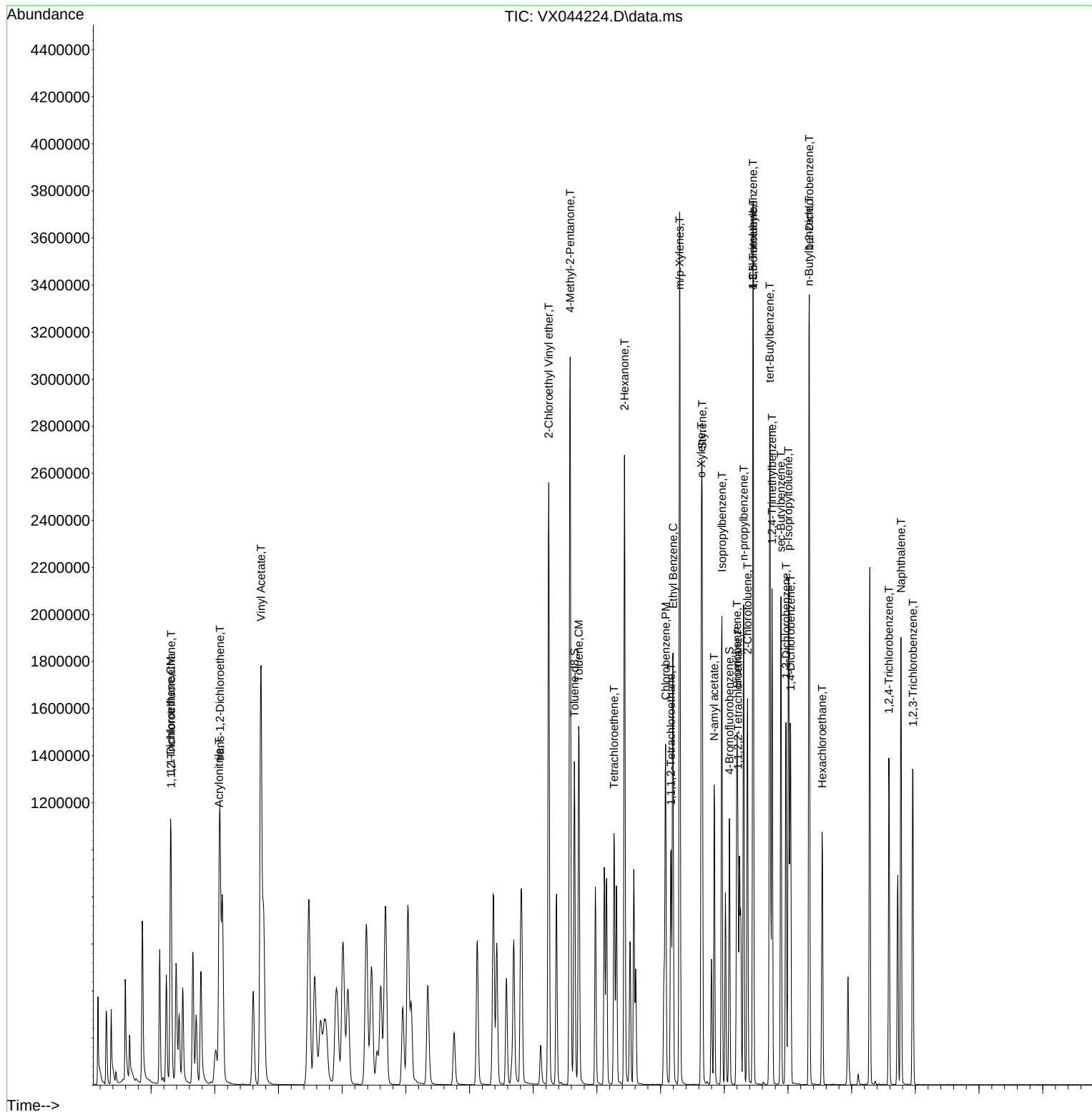
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Data File : VX044224.D
Acq On : 11 Dec 2024 13:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

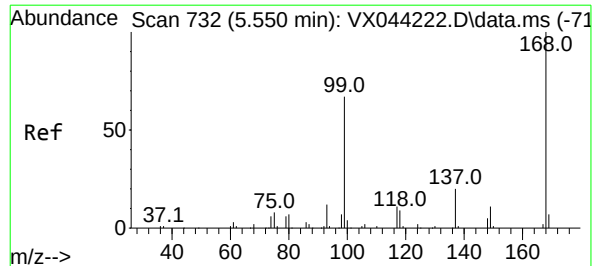
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:16:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.550 min Scan# 73

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:168 Resp: 117957

Ion Ratio Lower Upper

168 100

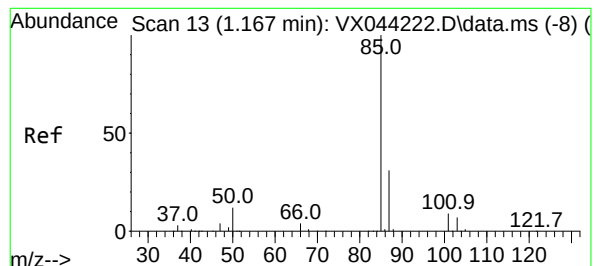
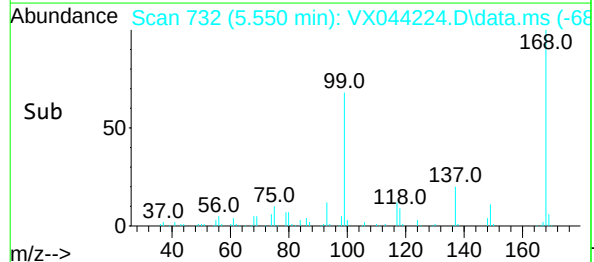
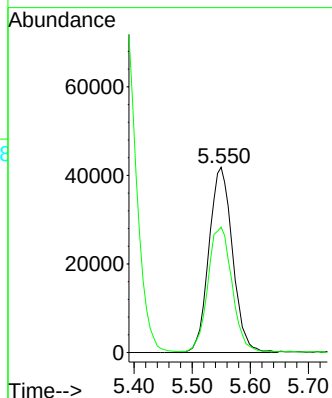
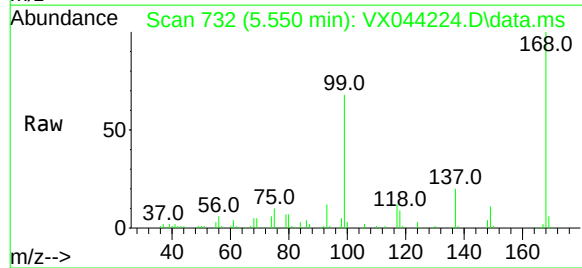
99 67.2 53.4 80.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#2

Dichlorodifluoromethane

Concen: 147.342 ug/l

RT: 1.166 min Scan# 13

Delta R.T. -0.000 min

Lab File: VX044224.D

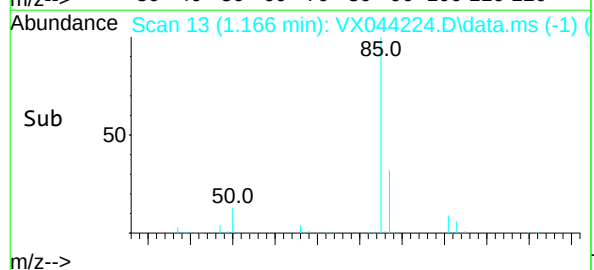
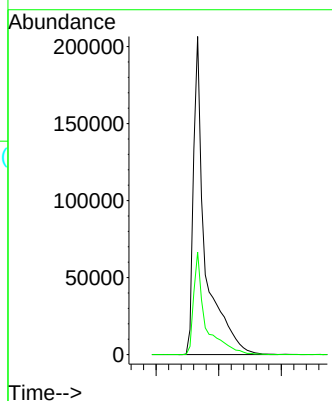
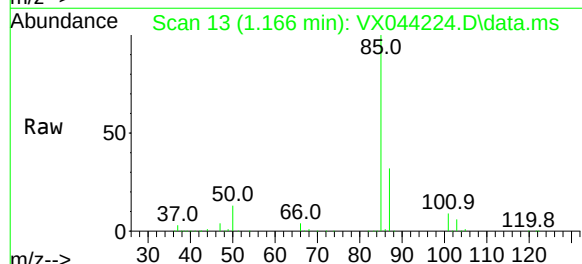
Acq: 11 Dec 2024 13:00

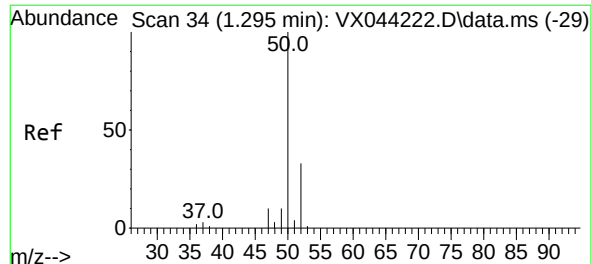
Tgt Ion: 85 Resp: 268739

Ion Ratio Lower Upper

85 100

87 32.2 15.4 46.4





#3

Chloromethane

Concen: 150.062 ug/l

RT: 1.294 min Scan# 34

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 50 Resp: 261734

Ion Ratio Lower Upper

50 100

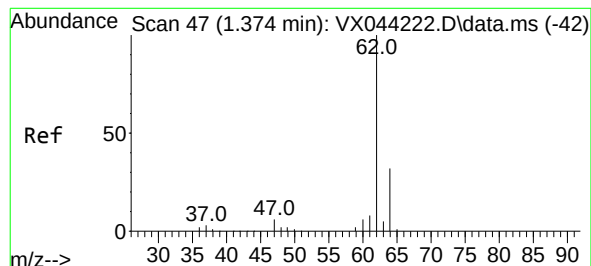
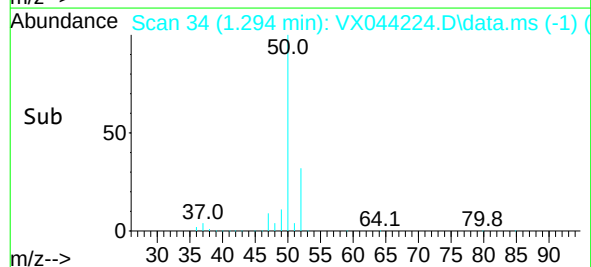
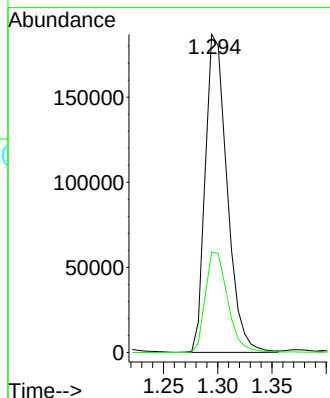
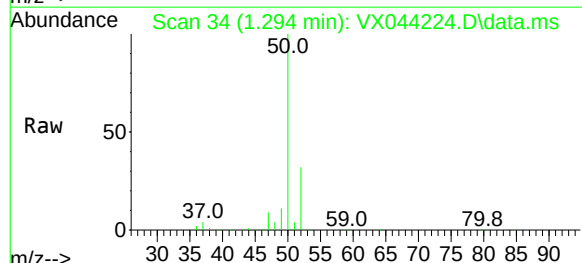
52 31.6 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#4

Vinyl Chloride

Concen: 143.446 ug/l

RT: 1.374 min Scan# 47

Delta R.T. -0.000 min

Lab File: VX044224.D

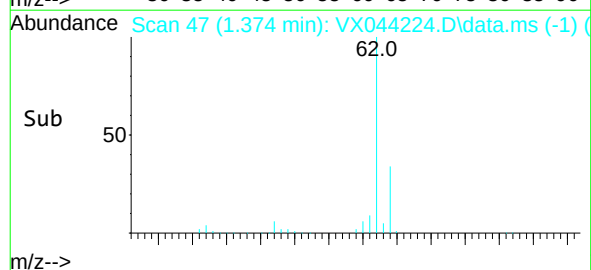
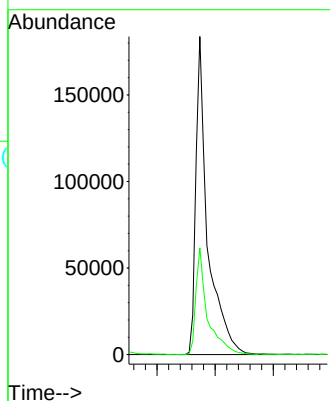
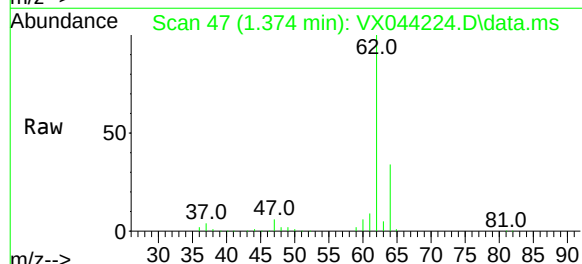
Acq: 11 Dec 2024 13:00

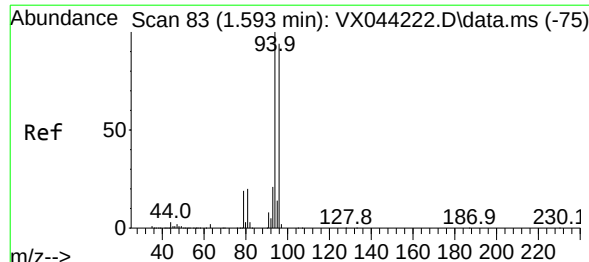
Tgt Ion: 62 Resp: 260651

Ion Ratio Lower Upper

62 100

64 33.5 25.7 38.5





#5

Bromomethane

Concen: 150.562 ug/l

RT: 1.593 min Scan# 83

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 94 Resp: 194089

Ion Ratio Lower Upper

94 100

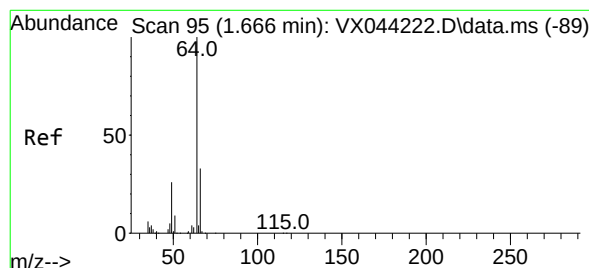
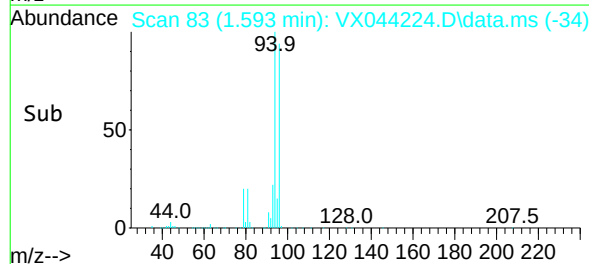
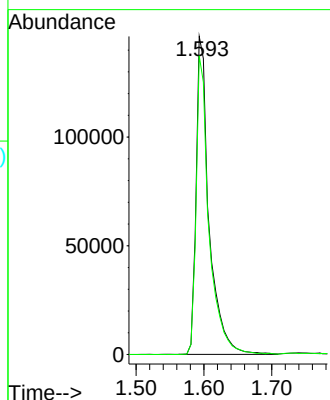
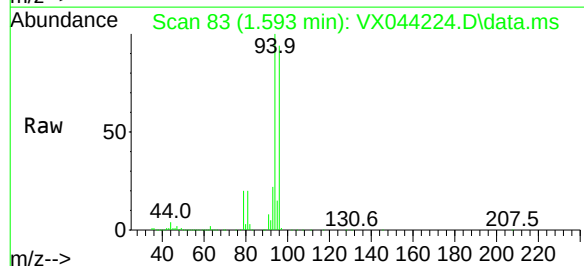
96 94.0 74.9 112.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#6

Chloroethane

Concen: 133.137 ug/l

RT: 1.660 min Scan# 94

Delta R.T. -0.006 min

Lab File: VX044224.D

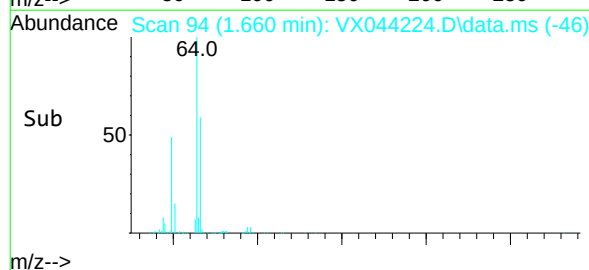
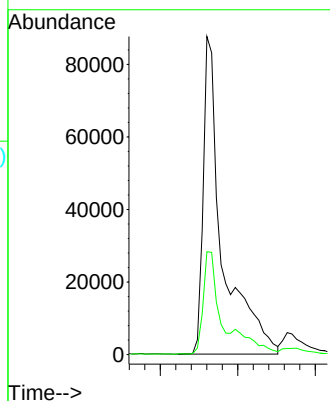
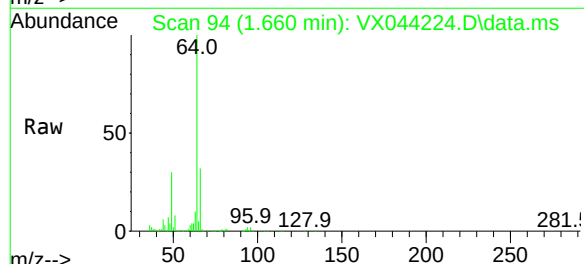
Acq: 11 Dec 2024 13:00

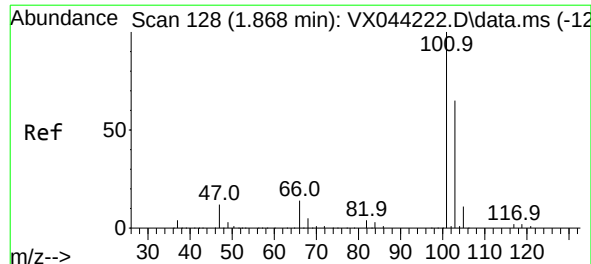
Tgt Ion: 64 Resp: 150640

Ion Ratio Lower Upper

64 100

66 32.1 26.6 39.8





#7

Trichlorofluoromethane

Concen: 140.645 ug/l

RT: 1.861 min Scan# 12

Delta R.T. -0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:101 Resp: 500315

Ion Ratio Lower Upper

101 100

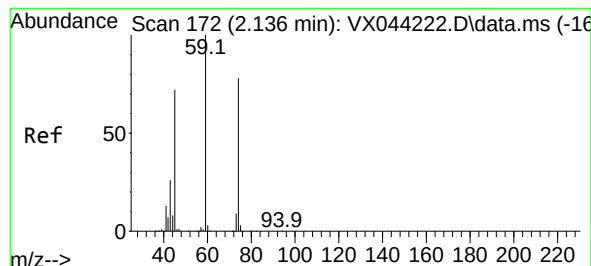
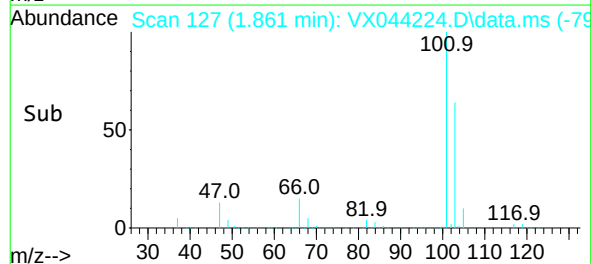
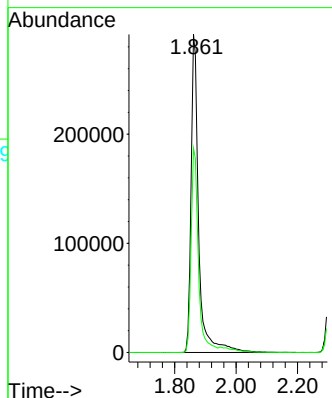
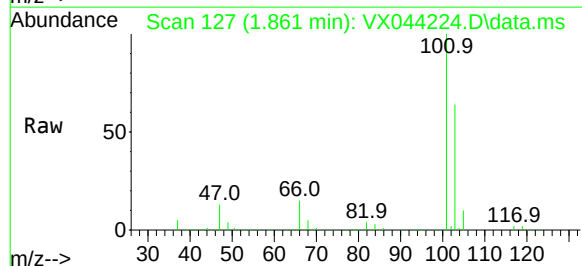
103 64.2 51.8 77.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#8

Diethyl Ether

Concen: 151.407 ug/l

RT: 2.136 min Scan# 172

Delta R.T. -0.000 min

Lab File: VX044224.D

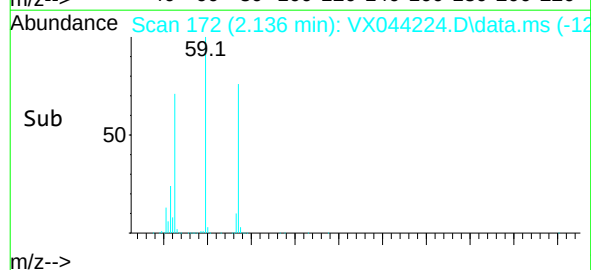
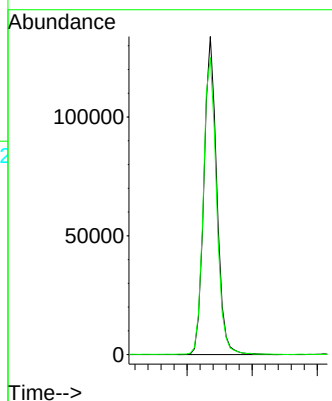
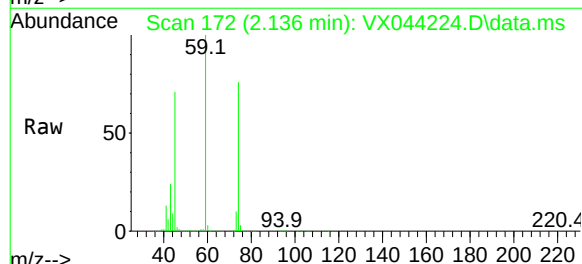
Acq: 11 Dec 2024 13:00

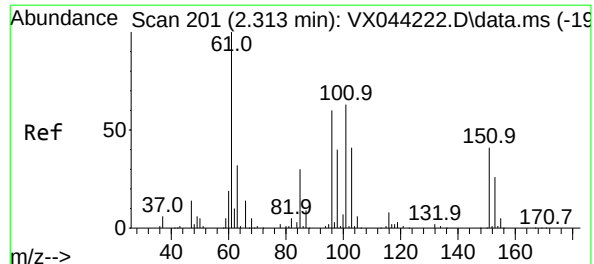
Tgt Ion: 74 Resp: 183845

Ion Ratio Lower Upper

74 100

45 96.6 48.4 145.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 152.497 ug/l

RT: 2.312 min Scan# 201

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

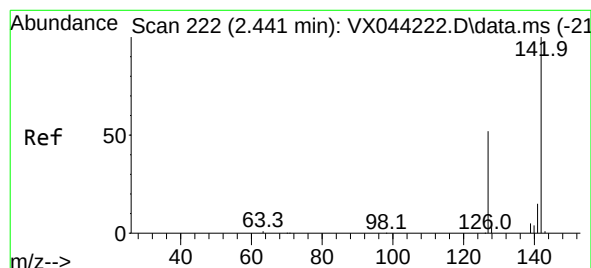
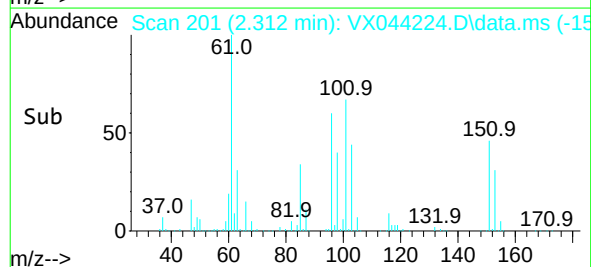
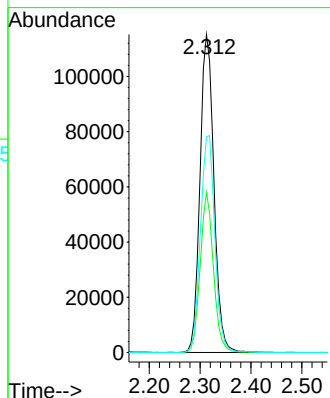
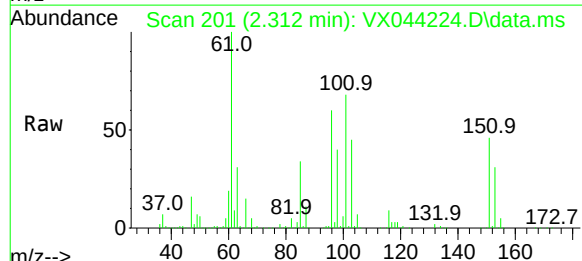
ClientSampleId :

VSTDICC150

Tgt Ion:	101	Resp:	219513
Ion	Ratio	Lower	Upper
101	100		
85	47.8	38.5	57.7
151	70.5	55.8	83.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#10

Methyl Iodide

Concen: 149.795 ug/l

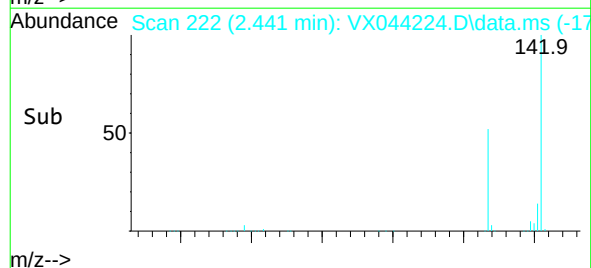
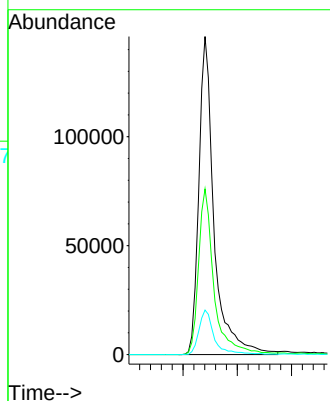
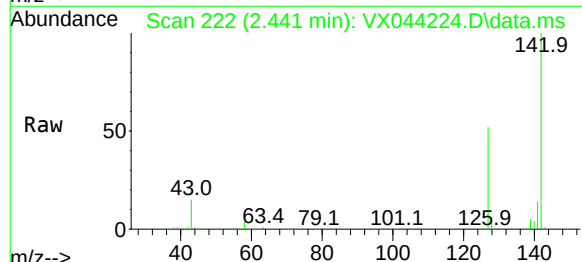
RT: 2.441 min Scan# 222

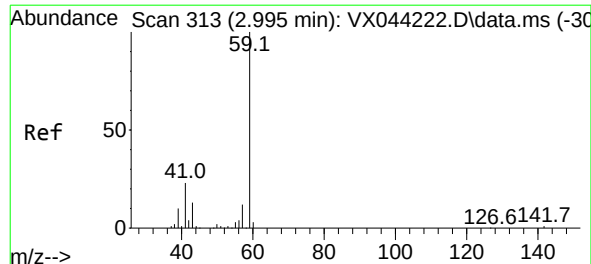
Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Tgt Ion:	142	Resp:	284184
Ion	Ratio	Lower	Upper
142	100		
127	52.8	41.8	62.8
141	14.2	11.5	17.3





#11

Tert butyl alcohol

Concen: 916.880 ug/l

RT: 3.014 min Scan# 31

Delta R.T. 0.018 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 59 Resp: 266830

Ion Ratio Lower Upper

59 100

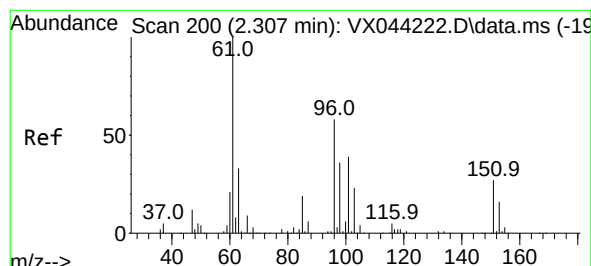
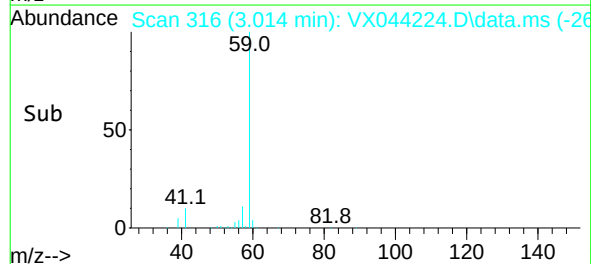
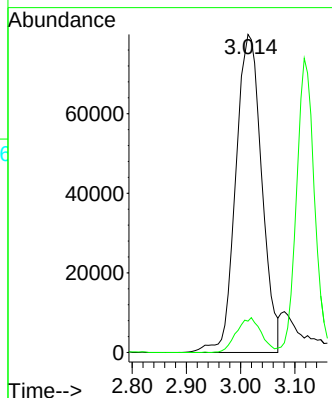
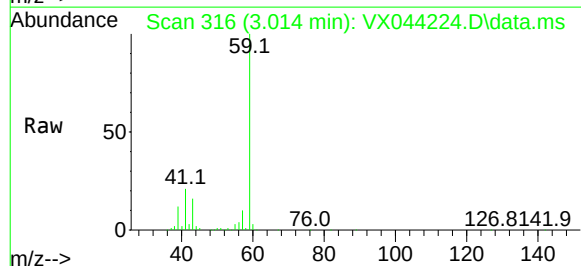
57 10.4 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#12

1,1-Dichloroethene

Concen: 159.600 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

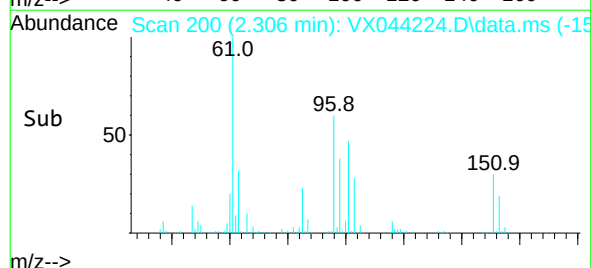
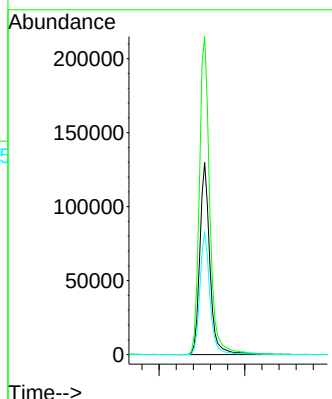
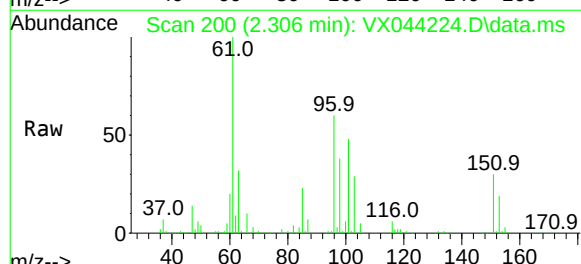
Tgt Ion: 96 Resp: 211016

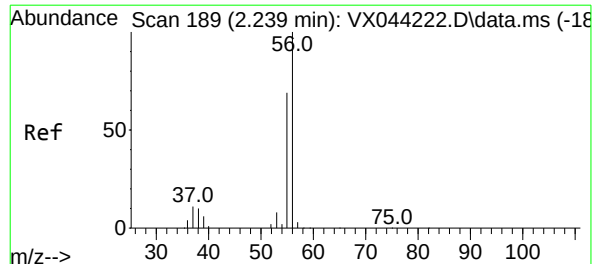
Ion Ratio Lower Upper

96 100

61 165.6 138.0 207.0

98 63.5 50.0 75.0





#13

Acrolein

Concen: 809.350 ug/l

RT: 2.239 min Scan# 189

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 341487

Ion Ratio Lower Upper

56 100

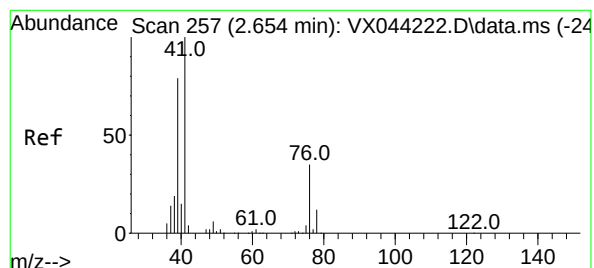
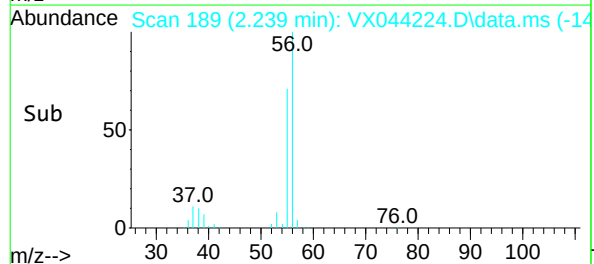
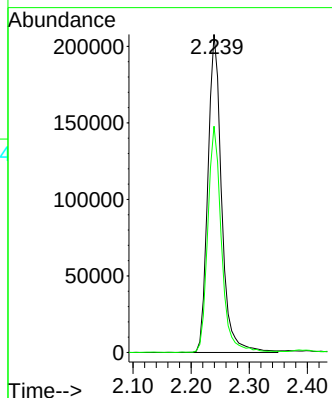
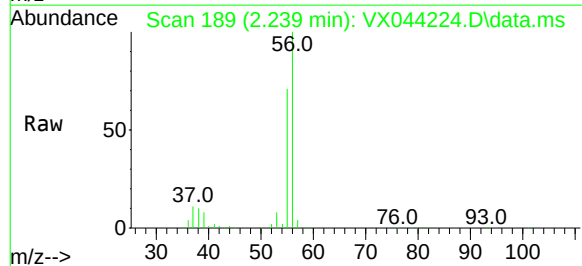
55 70.8 56.6 84.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#14

Allyl chloride

Concen: 157.465 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

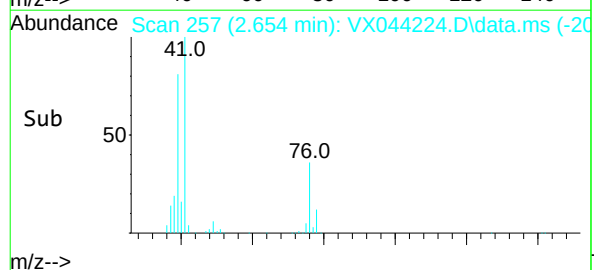
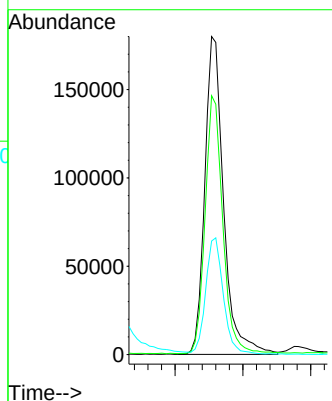
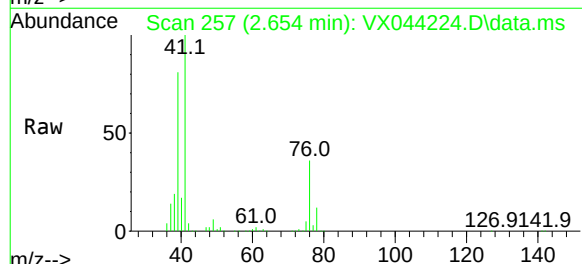
Tgt Ion: 41 Resp: 346773

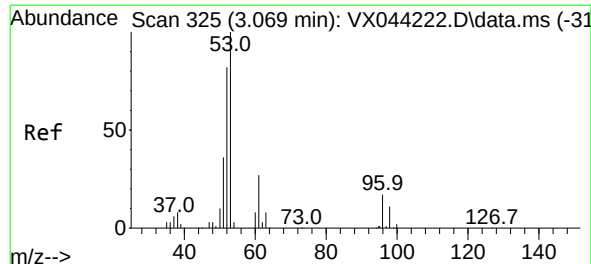
Ion Ratio Lower Upper

41 100

39 76.1 61.9 92.9

76 34.5 27.4 41.2





#15

Acrylonitrile

Concen: 804.774 ug/l

RT: 3.068 min Scan# 32

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

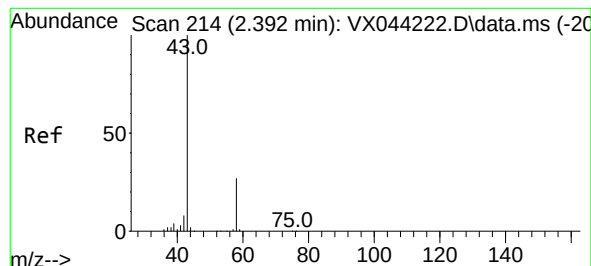
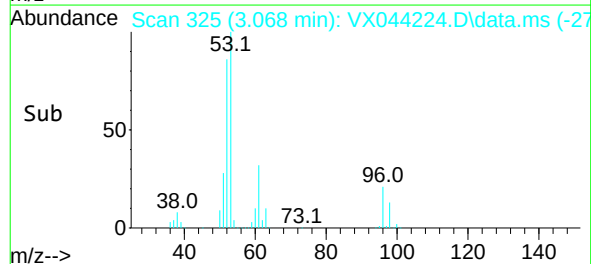
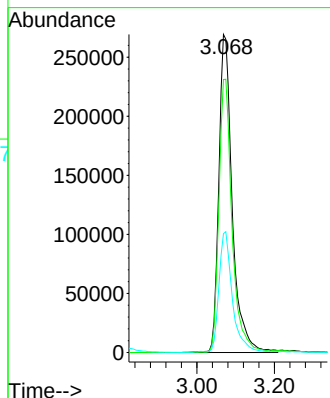
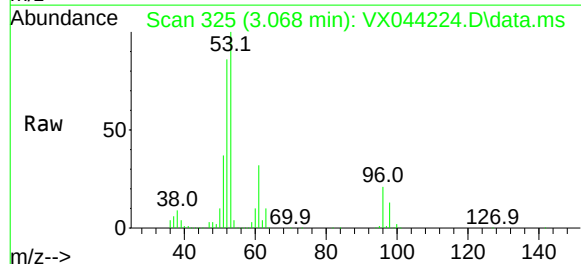
ClientSampleId :

VSTDICC150

Tgt Ion:	53	Resp:	649783
Ion	Ratio	Lower	Upper
53	100		
52	83.9	67.4	101.0
51	37.0	30.3	45.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#16

Acetone

Concen: 780.537 ug/l

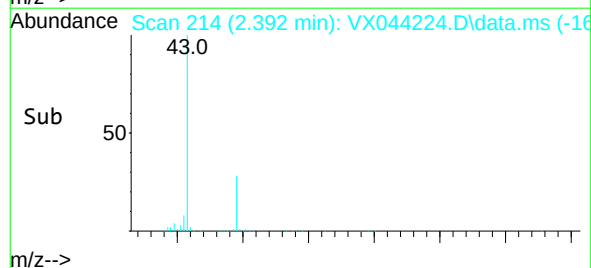
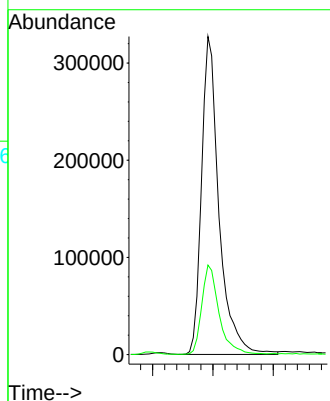
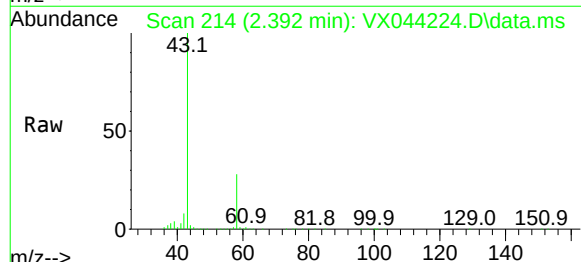
RT: 2.392 min Scan# 214

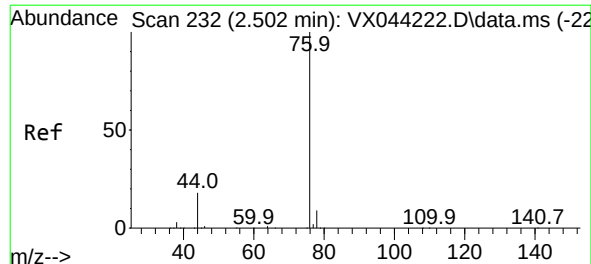
Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Tgt Ion:	43	Resp:	658120
Ion	Ratio	Lower	Upper
43	100		
58	28.1	21.6	32.4





#17

Carbon Disulfide

Concen: 191.754 ug/l

RT: 2.495 min Scan# 231

Delta R.T. -0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 76 Resp: 481926

Ion Ratio Lower Upper

76 100

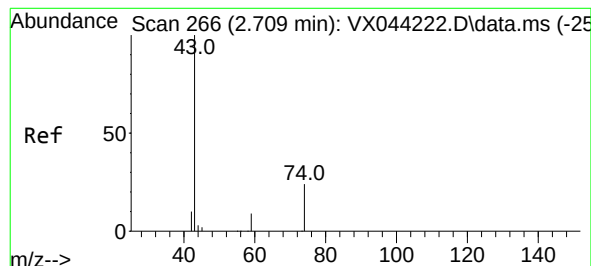
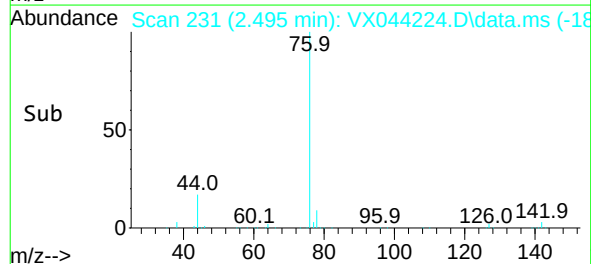
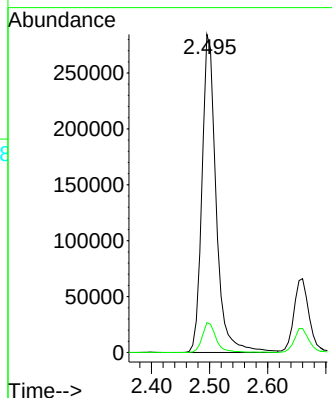
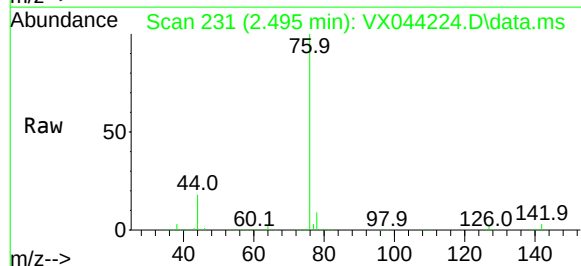
78 9.4 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#18

Methyl Acetate

Concen: 154.792 ug/l

RT: 2.709 min Scan# 266

Delta R.T. -0.000 min

Lab File: VX044224.D

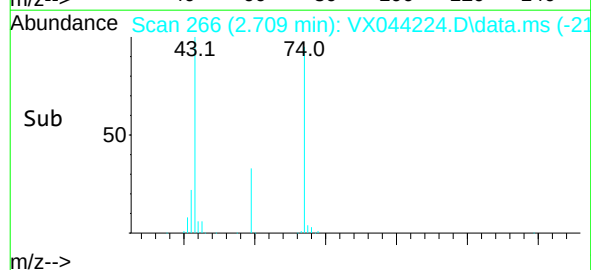
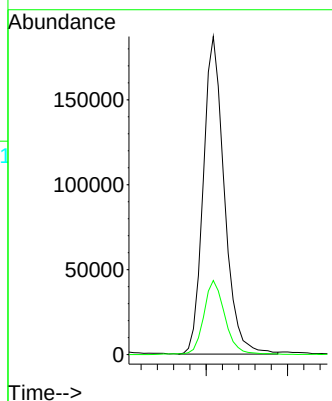
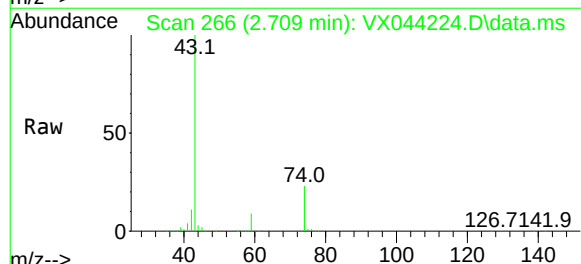
Acq: 11 Dec 2024 13:00

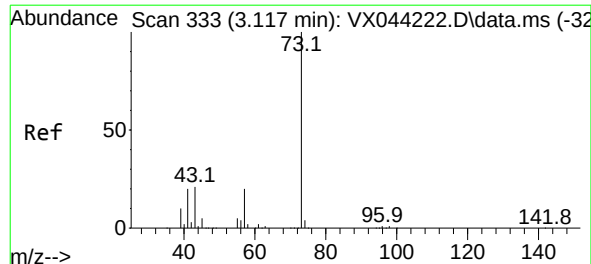
Tgt Ion: 43 Resp: 336516

Ion Ratio Lower Upper

43 100

74 23.7 17.7 26.5





#19

Methyl tert-butyl Ether

Concen: 156.286 ug/l

RT: 3.117 min Scan# 333

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 73 Resp: 806360

Ion Ratio Lower Upper

73 100

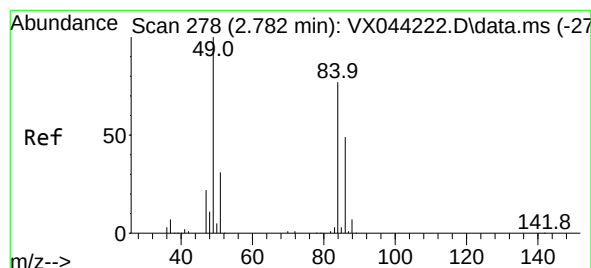
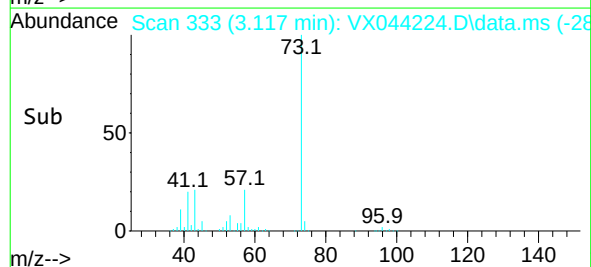
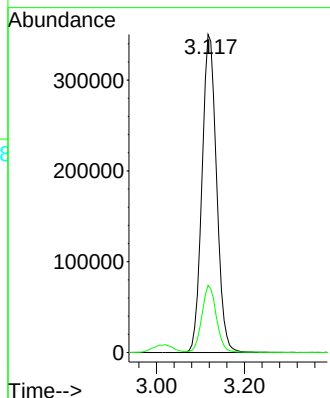
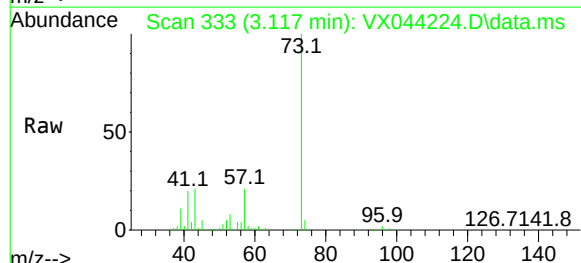
57 21.1 16.2 24.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#20

Methylene Chloride

Concen: 149.282 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Tgt Ion: 84 Resp: 236412

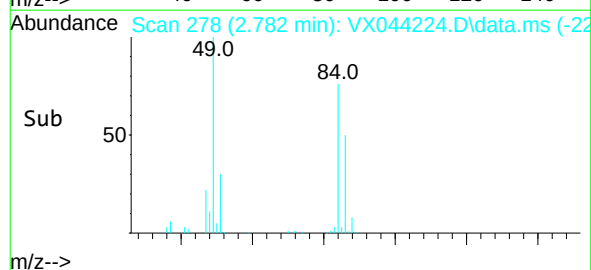
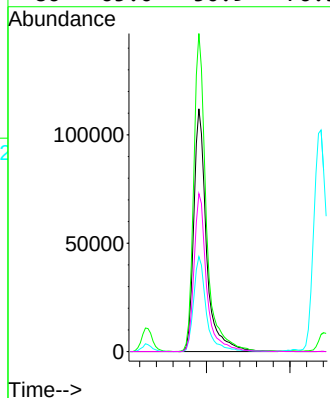
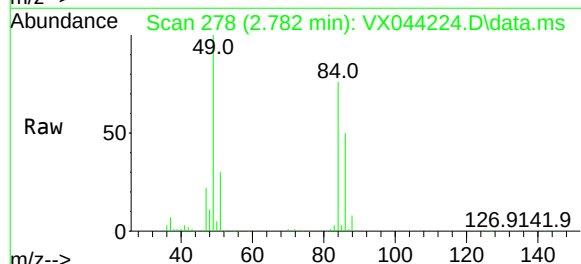
Ion Ratio Lower Upper

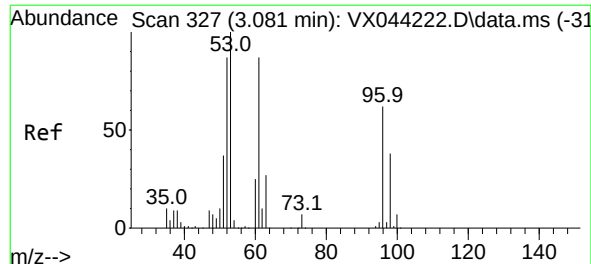
84 100

49 130.9 104.2 156.4

51 39.1 32.2 48.4

86 65.0 50.9 76.3





#21

trans-1,2-Dichloroethene

Concen: 157.719 ug/l

RT: 3.081 min Scan# 327

Delta R.T. -0.000 min

Lab File: VX044224.D

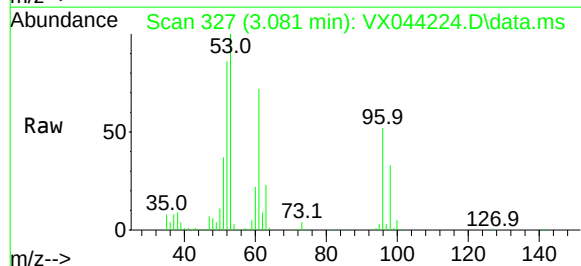
Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

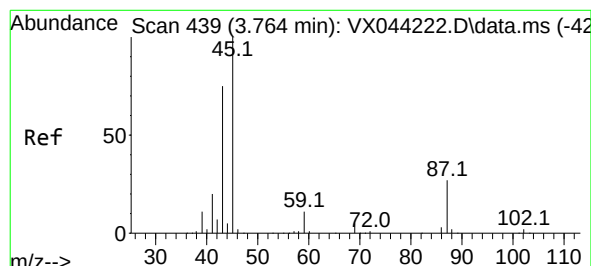
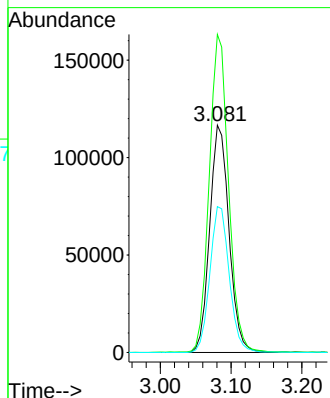
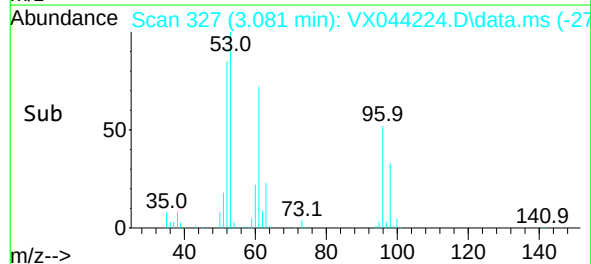
VSTDICC150



Tgt Ion:	96	Resp:	221622
Ion	Ratio	Lower	Upper
96	100		
61	139.7	112.0	168.0
98	64.2	48.8	73.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#22

Diisopropyl ether

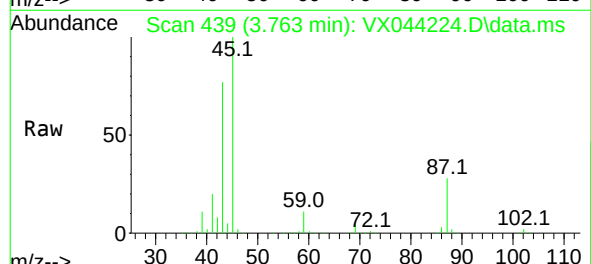
Concen: 151.500 ug/l

RT: 3.763 min Scan# 439

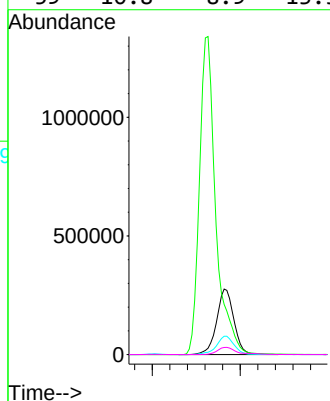
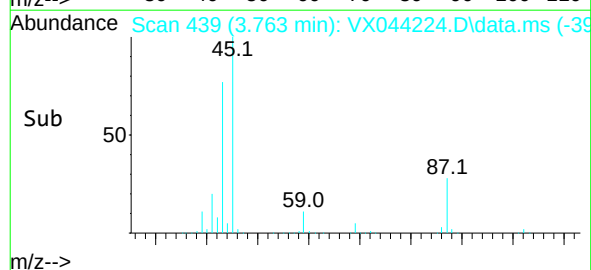
Delta R.T. -0.000 min

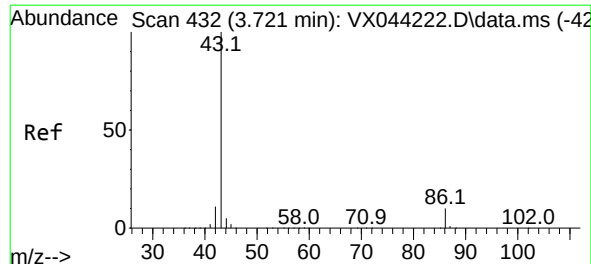
Lab File: VX044224.D

Acq: 11 Dec 2024 13:00



Tgt Ion:	45	Resp:	751292
Ion	Ratio	Lower	Upper
45	100		
43	76.6	60.2	90.2
87	28.0	21.2	31.8
59	10.8	8.9	13.3





#23

Vinyl Acetate

Concen: 859.417 ug/l

RT: 3.727 min Scan# 43

Delta R.T. 0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 3464902

Ion Ratio Lower Upper

43 100

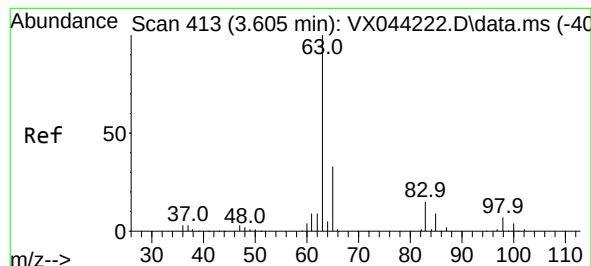
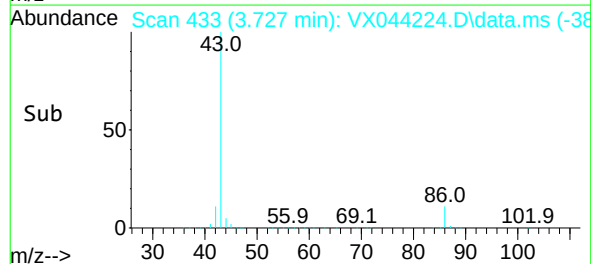
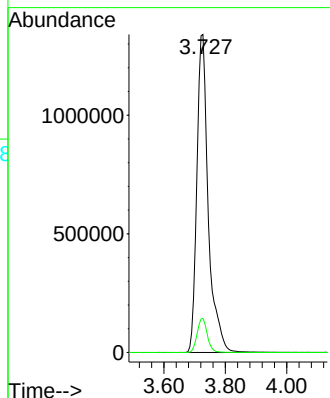
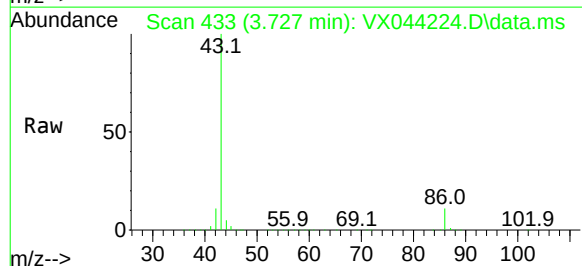
86 10.7 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#24

1,1-Dichloroethane

Concen: 155.921 ug/l

RT: 3.605 min Scan# 413

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

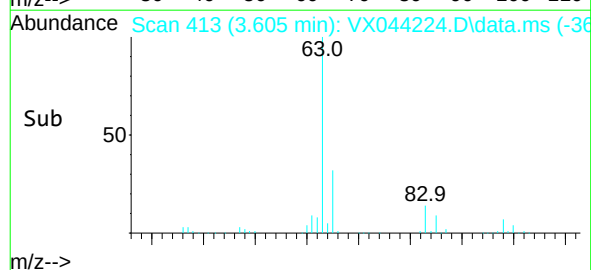
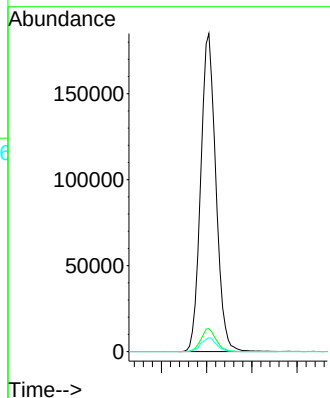
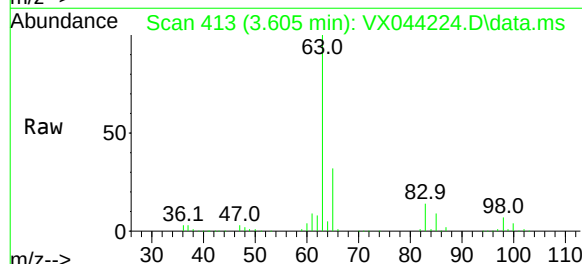
Tgt Ion: 63 Resp: 431006

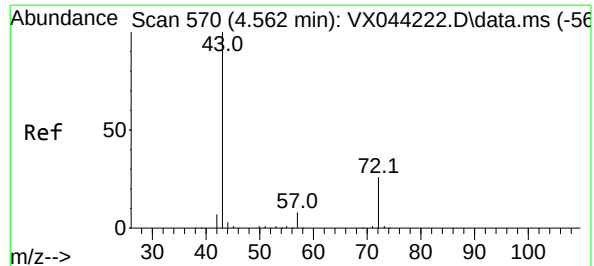
Ion Ratio Lower Upper

63 100

98 7.2 3.6 10.8

100 4.4 2.1 6.3





#25

2-Butanone

Concen: 798.973 ug/l

RT: 4.568 min Scan# 571

Delta R.T. 0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 957709

Ion Ratio Lower Upper

43 100

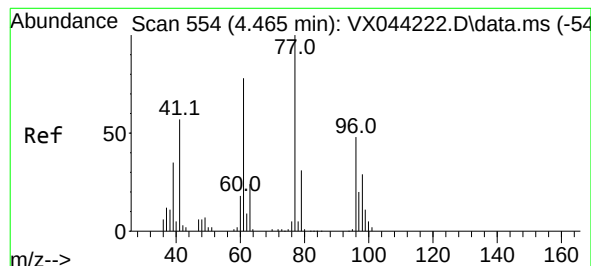
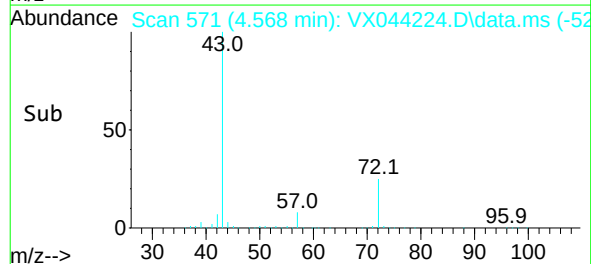
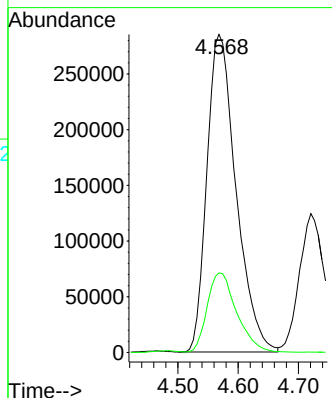
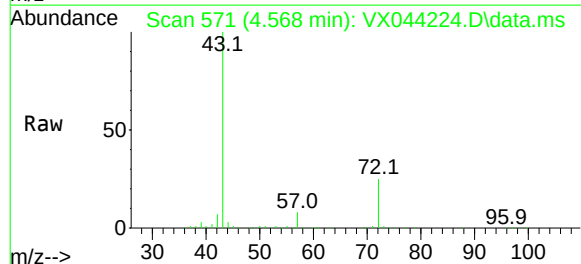
72 24.8 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#26

2,2-Dichloropropane

Concen: 163.773 ug/l

RT: 4.465 min Scan# 554

Delta R.T. -0.000 min

Lab File: VX044224.D

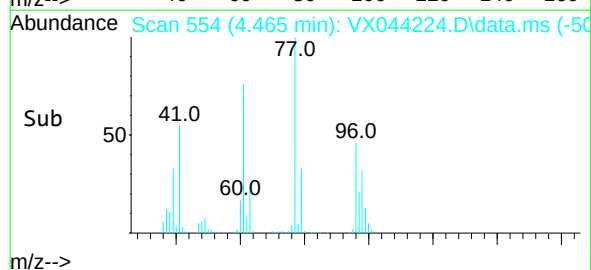
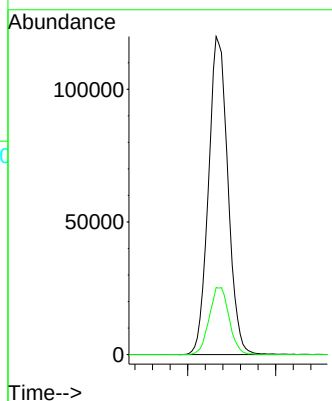
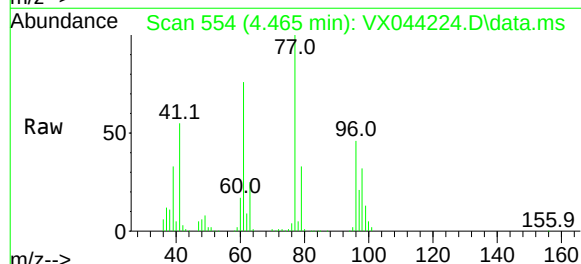
Acq: 11 Dec 2024 13:00

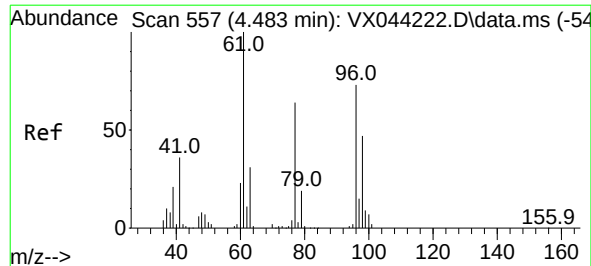
Tgt Ion: 77 Resp: 367781

Ion Ratio Lower Upper

77 100

97 21.6 10.7 32.1





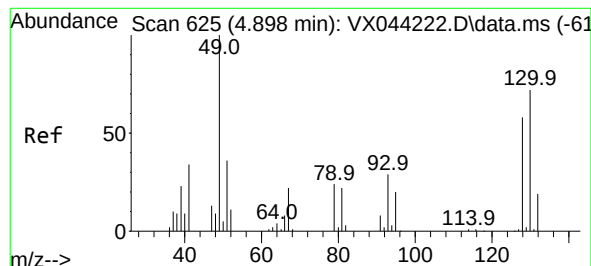
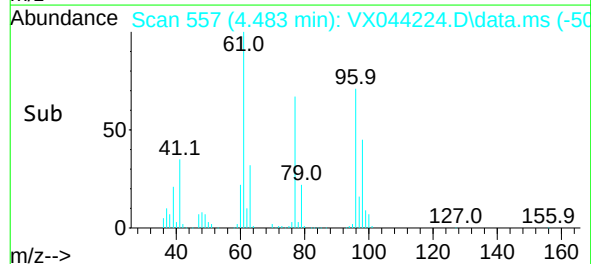
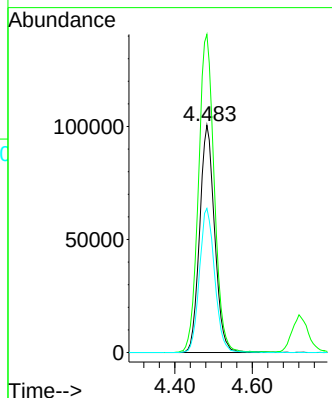
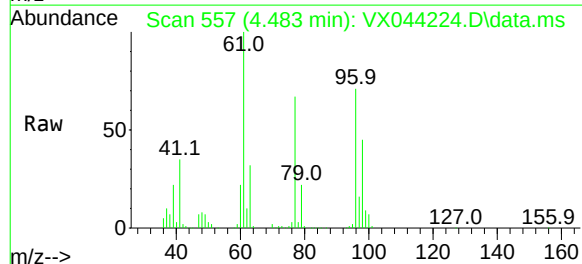
#27
cis-1,2-Dichloroethene
Concen: 151.131 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 269708
Ion Ratio Lower Upper
96 100
61 147.2 0.0 299.0
98 64.7 0.0 129.0

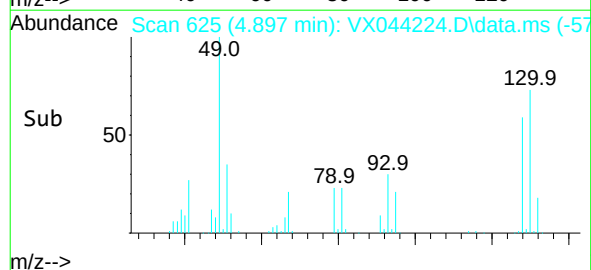
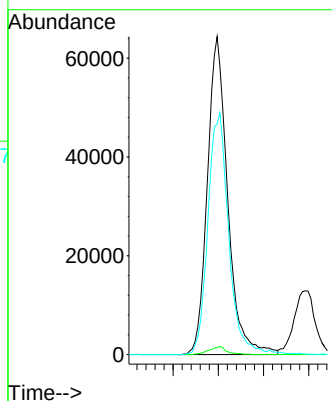
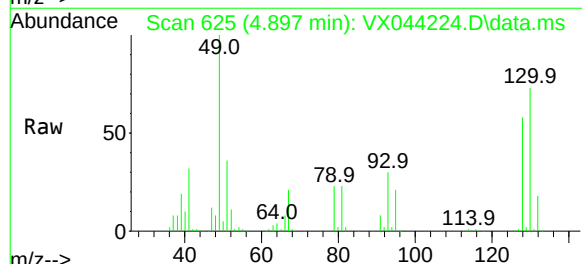
Manual Integrations
APPROVED

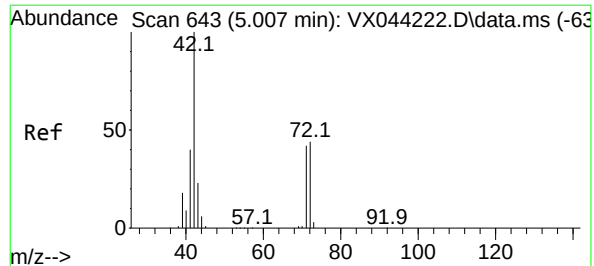
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#28
Bromochloromethane
Concen: 148.269 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 49 Resp: 200978
Ion Ratio Lower Upper
49 100
129 2.2 0.0 4.2
130 77.2 62.1 93.1





#29

Tetrahydrofuran

Concen: 782.561 ug/l

RT: 5.013 min Scan# 64

Delta R.T. 0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 42 Resp: 602095

Ion Ratio Lower Upper

42 100

72 44.8 37.0 55.6

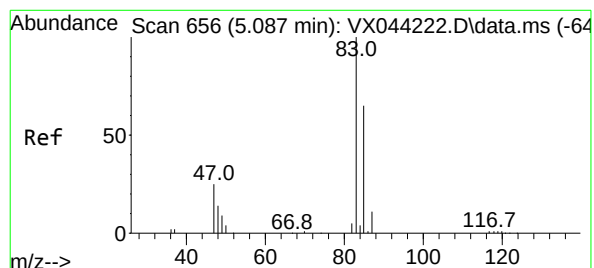
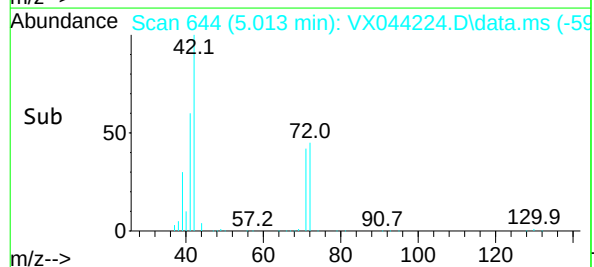
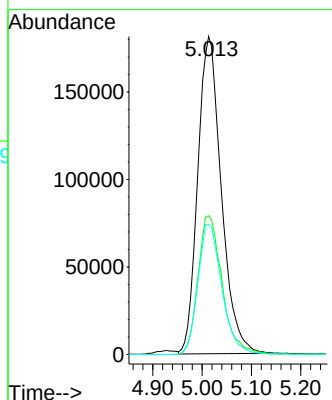
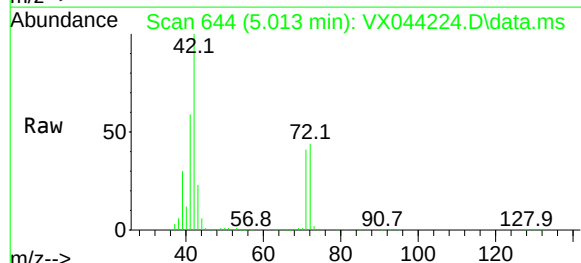
71 41.7 33.6 50.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#30

Chloroform

Concen: 149.274 ug/l

RT: 5.092 min Scan# 657

Delta R.T. 0.006 min

Lab File: VX044224.D

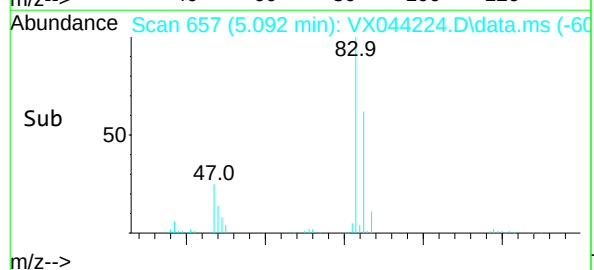
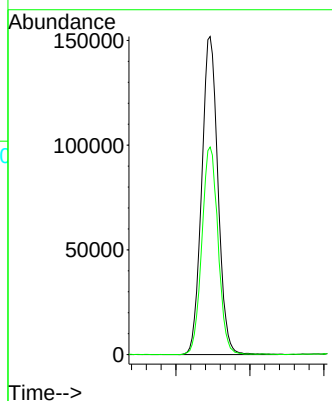
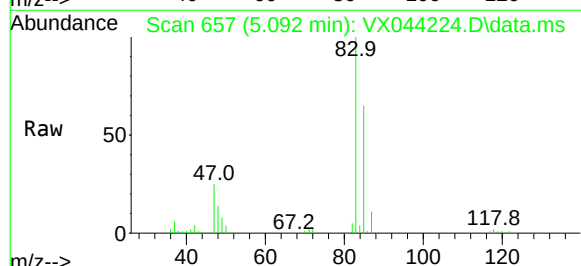
Acq: 11 Dec 2024 13:00

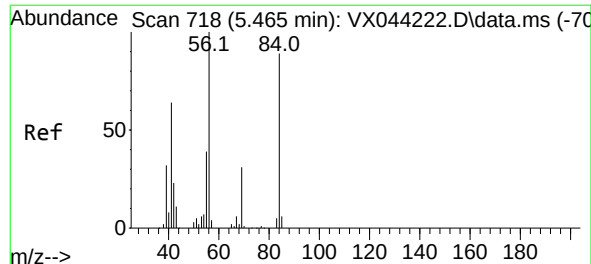
Tgt Ion: 83 Resp: 463606

Ion Ratio Lower Upper

83 100

85 65.3 51.6 77.4





#31

Cyclohexane

Concen: 148.745 ug/l

RT: 5.458 min Scan# 718

Delta R.T. -0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 56 Resp: 332026

Ion Ratio Lower Upper

56 100

69 29.8 24.7 37.1

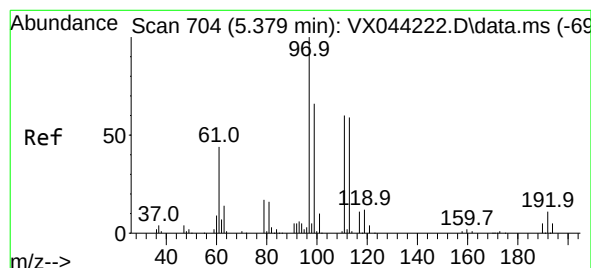
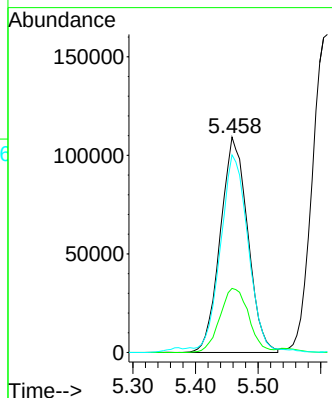
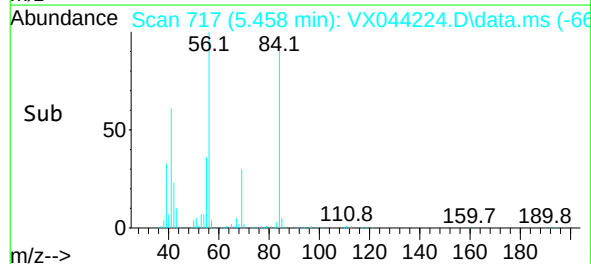
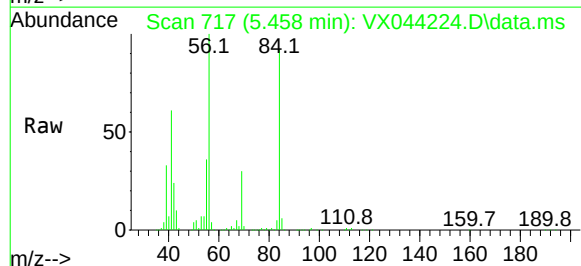
84 90.1 71.0 106.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#32

1,1,1-Trichloroethane

Concen: 161.073 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

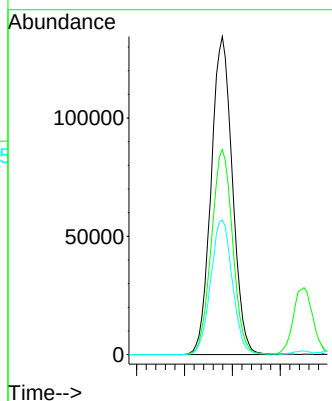
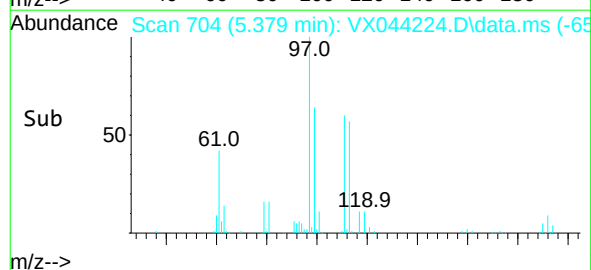
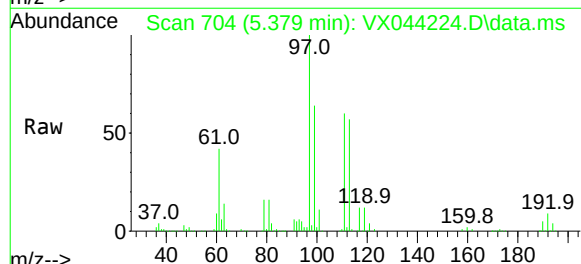
Tgt Ion: 97 Resp: 415253

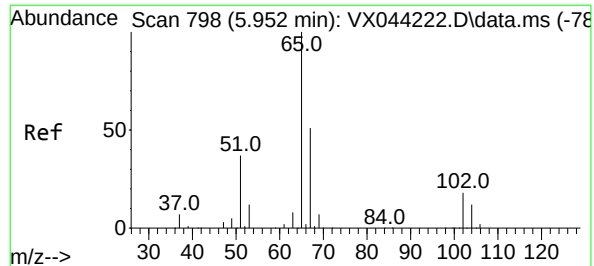
Ion Ratio Lower Upper

97 100

99 64.4 50.8 76.2

61 43.2 35.2 52.8





#33

1,2-Dichloroethane-d4

Concen: 151.956 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 65 Resp: 314272

Ion Ratio Lower Upper

65 100

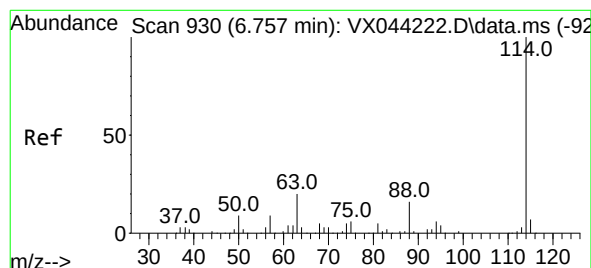
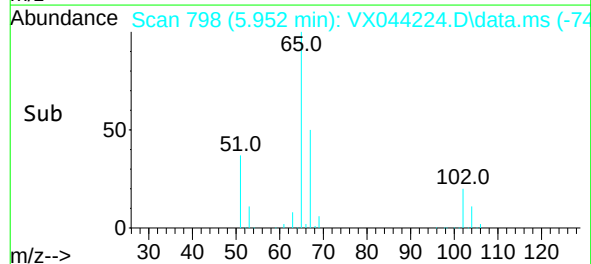
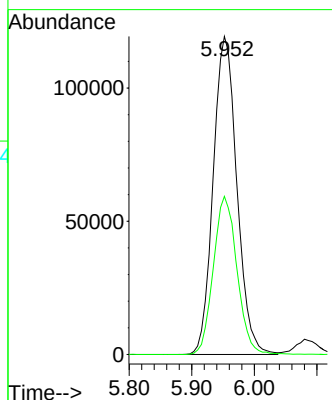
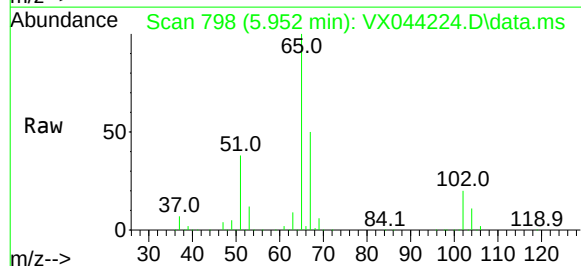
67 49.5 0.0 101.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

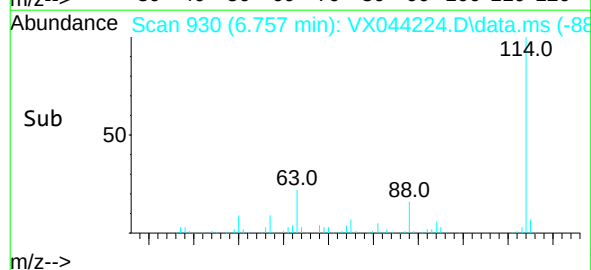
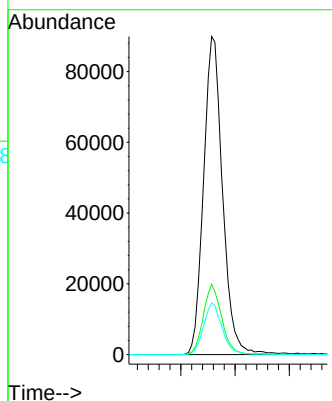
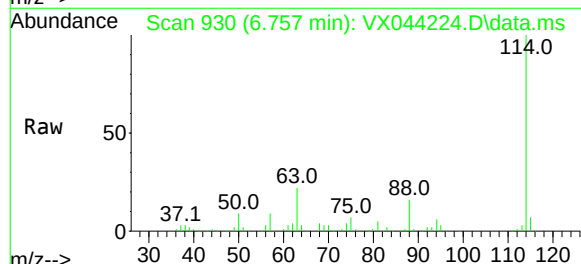
Tgt Ion:114 Resp: 218610

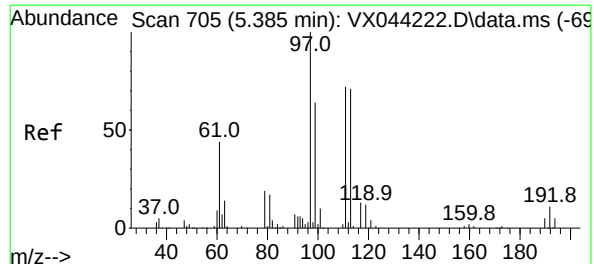
Ion Ratio Lower Upper

114 100

63 22.0 0.0 40.6

88 16.2 0.0 31.8





#35

Dibromofluoromethane

Concen: 153.188 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:113 Resp: 231937

Ion Ratio Lower Upper

113 100

111 103.1 80.4 120.6

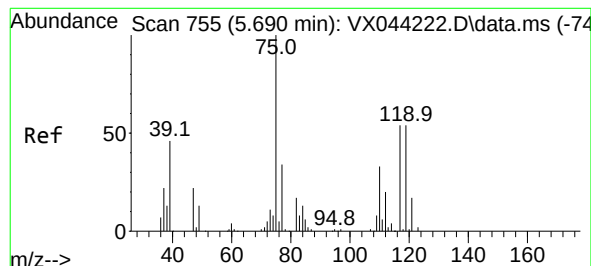
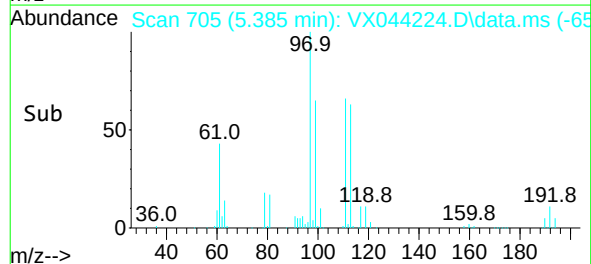
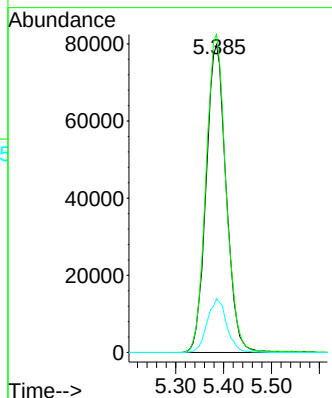
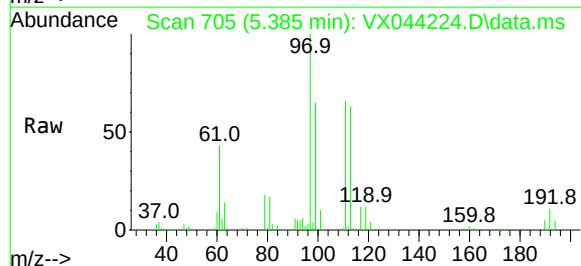
192 17.0 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#36

1,1-Dichloropropene

Concen: 148.642 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

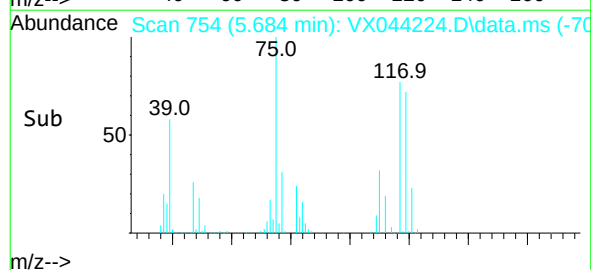
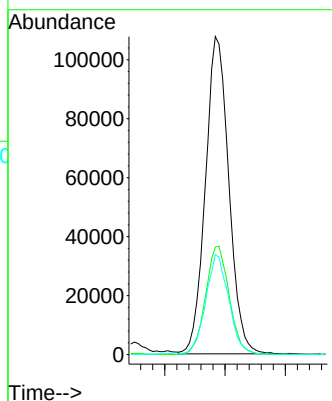
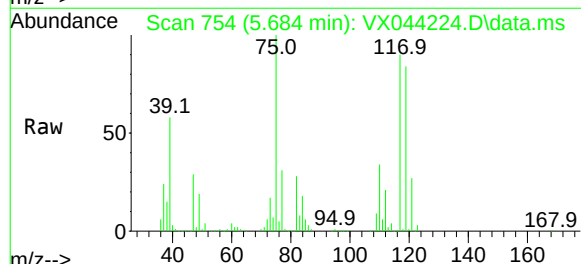
Tgt Ion: 75 Resp: 290913

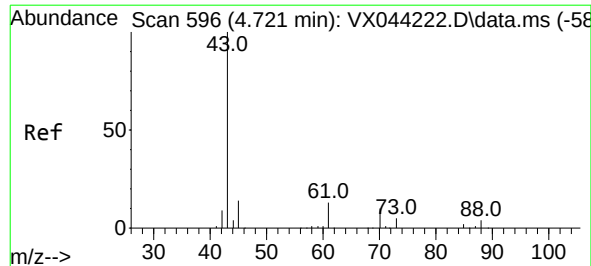
Ion Ratio Lower Upper

75 100

110 34.6 17.3 51.7

77 31.1 25.4 38.0





#37

Ethyl Acetate

Concen: 155.731 ug/l

RT: 4.721 min Scan# 596

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

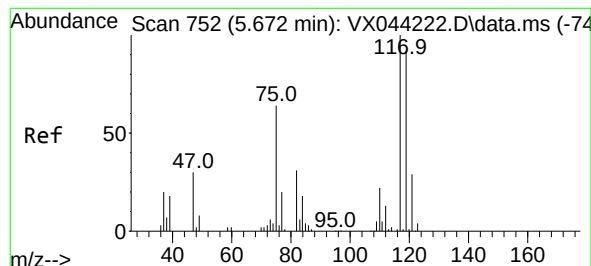
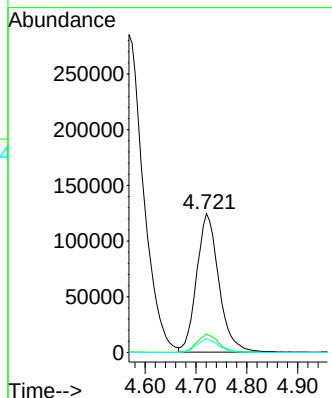
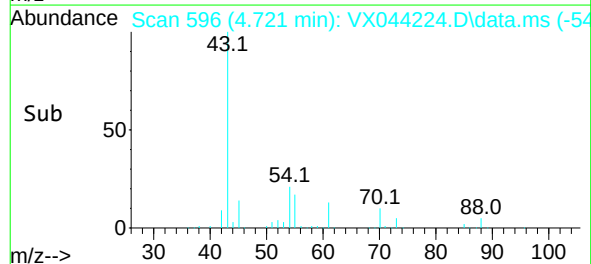
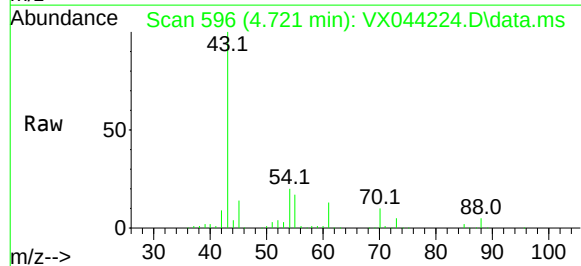
ClientSampleId :

VSTDIC150

Tgt Ion:	43	Resp:	376757
Ion	Ratio	Lower	Upper
43	100		
61	13.2	9.8	14.8
70	9.6	7.7	11.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#38

Carbon Tetrachloride

Concen: 164.587 ug/l

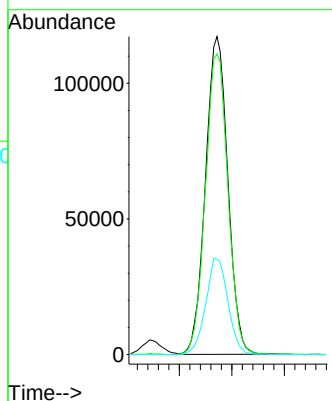
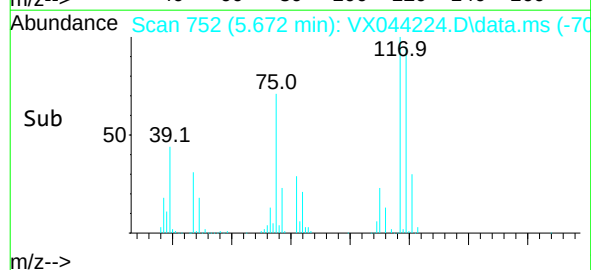
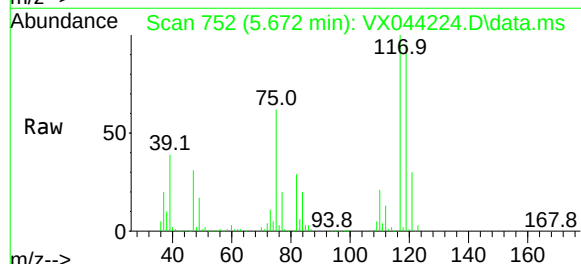
RT: 5.672 min Scan# 752

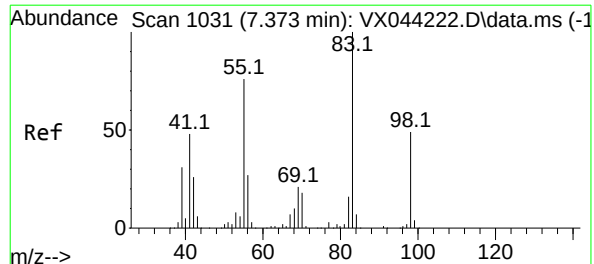
Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Tgt Ion:	117	Resp:	346795
Ion	Ratio	Lower	Upper
117	100		
119	94.6	74.2	111.4
121	30.1	23.0	34.6





#39

Methylcyclohexane

Concen: 157.516 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 83 Resp: 368542

Ion Ratio Lower Upper

83 100

55 75.8 60.7 91.1

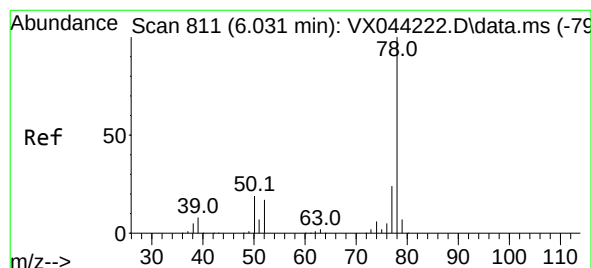
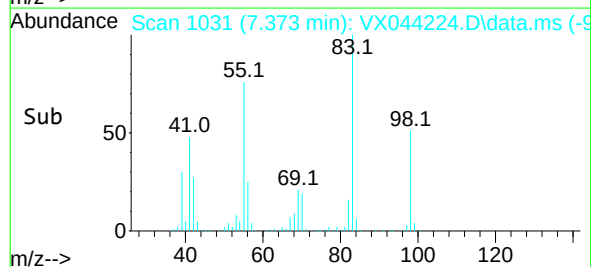
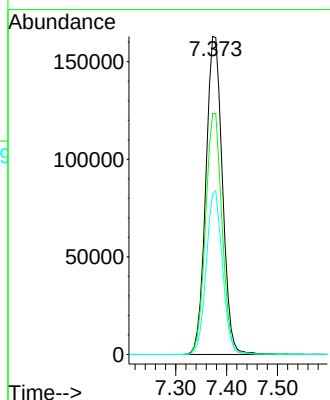
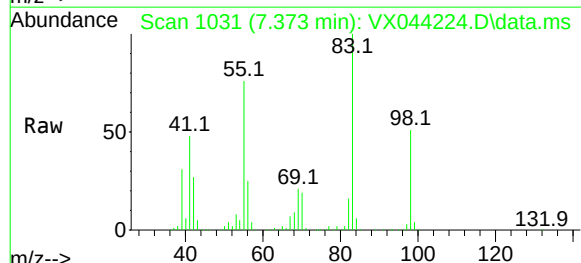
98 50.5 38.9 58.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#40

Benzene

Concen: 149.340 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX044224.D

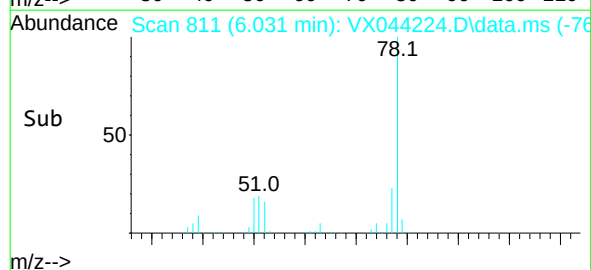
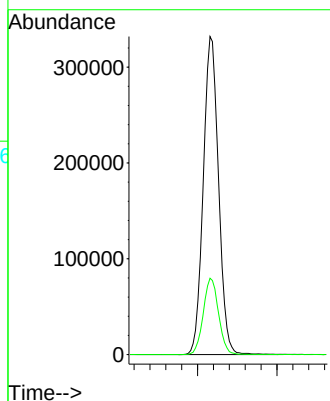
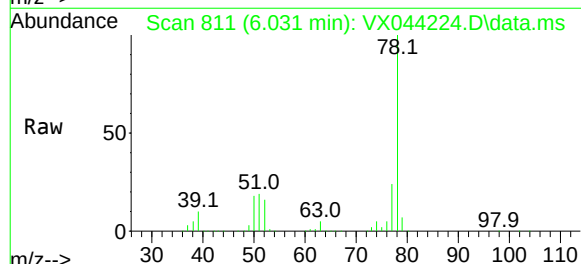
Acq: 11 Dec 2024 13:00

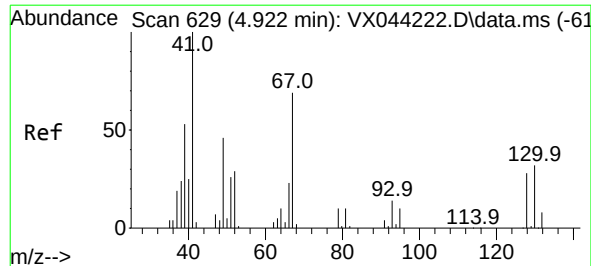
Tgt Ion: 78 Resp: 887413

Ion Ratio Lower Upper

78 100

77 24.0 19.3 28.9





#41

Methacrylonitrile

Concen: 155.569 ug/l

RT: 4.928 min Scan# 63

Delta R.T. 0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 41 Resp: 199851

Ion Ratio Lower Upper

41 100

39 54.5 44.2 66.4

67 70.2 57.2 85.8

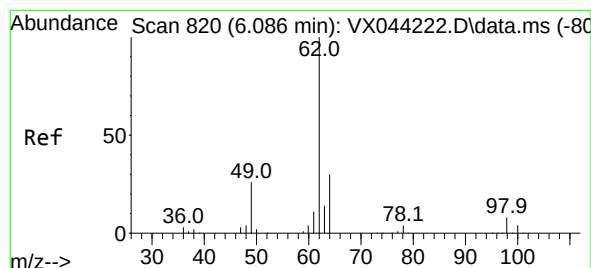
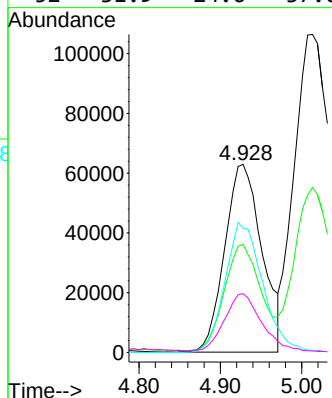
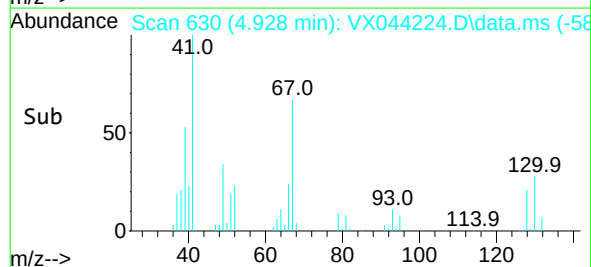
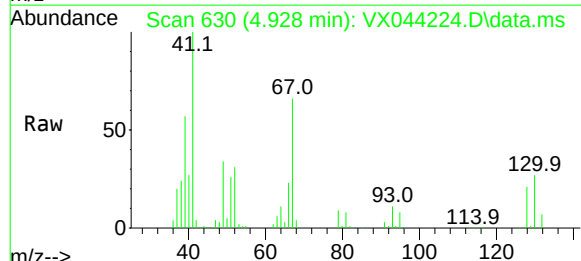
52 31.9 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#42

1,2-Dichloroethane

Concen: 151.105 ug/l

RT: 6.086 min Scan# 820

Delta R.T. -0.000 min

Lab File: VX044224.D

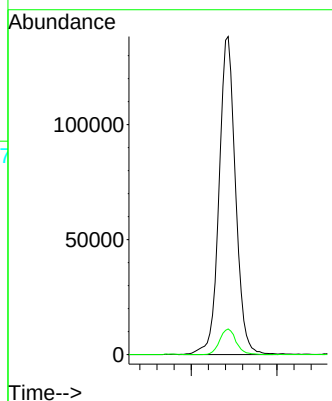
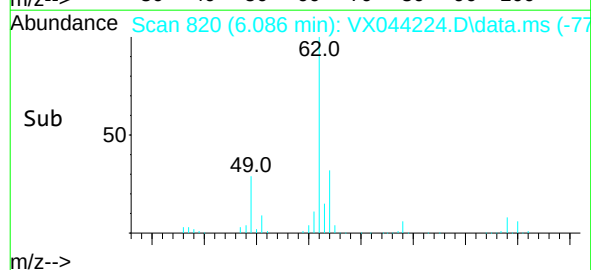
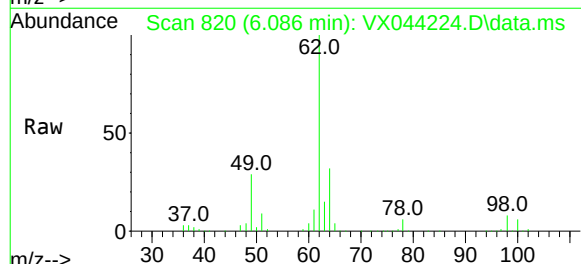
Acq: 11 Dec 2024 13:00

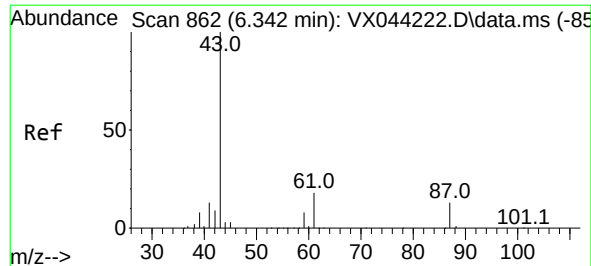
Tgt Ion: 62 Resp: 369874

Ion Ratio Lower Upper

62 100

98 8.0 0.0 15.8





#43

Isopropyl Acetate

Concen: 163.200 ug/l

RT: 6.342 min Scan# 862

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

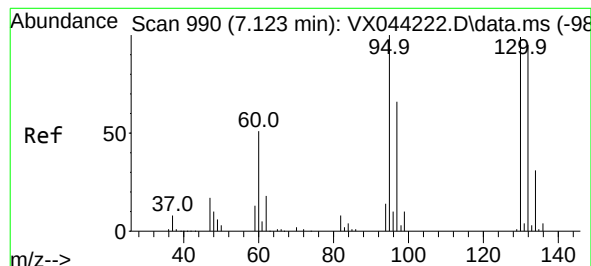
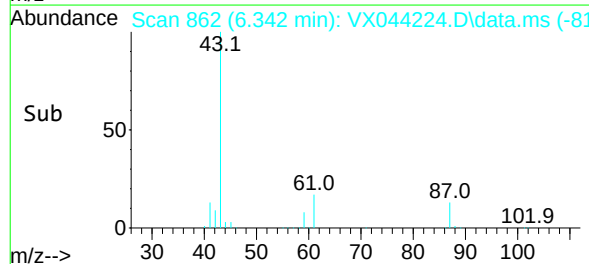
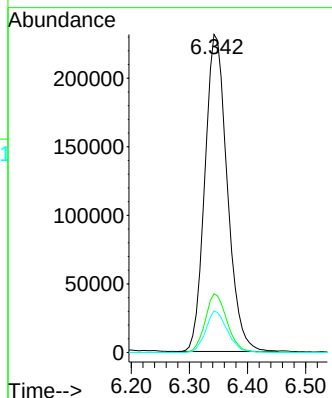
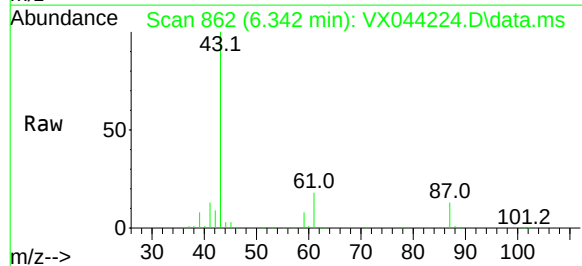
ClientSampleId :

VSTDIC150

Tgt Ion:	43	Resp:	617107
Ion	Ratio	Lower	Upper
43	100		
61	18.2	14.2	21.2
87	12.8	10.2	15.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#44

Trichloroethene

Concen: 151.275 ug/l

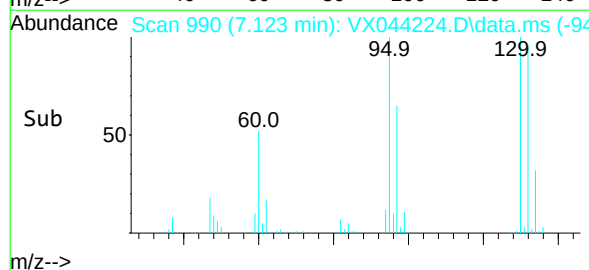
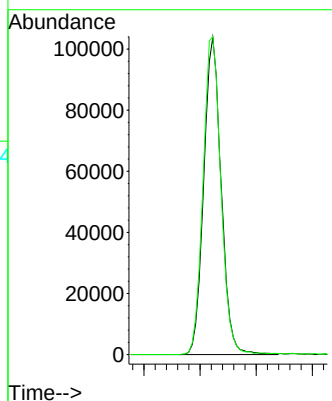
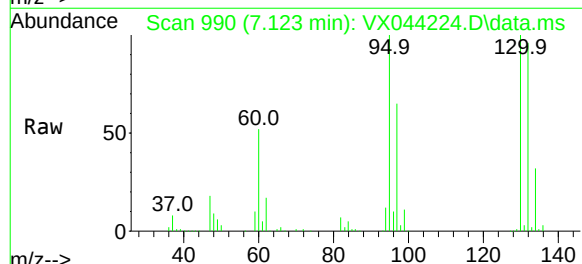
RT: 7.123 min Scan# 990

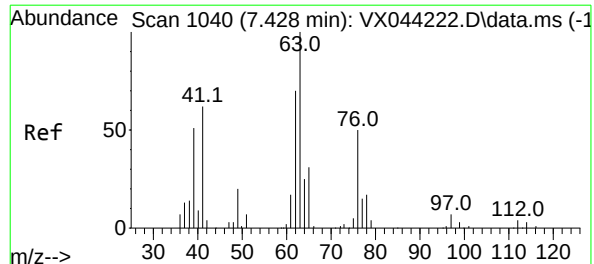
Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Tgt Ion:	130	Resp:	224164
Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	201.4





#45

1,2-Dichloropropane

Concen: 147.697 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 63 Resp: 224224

Ion Ratio Lower Upper

63 100

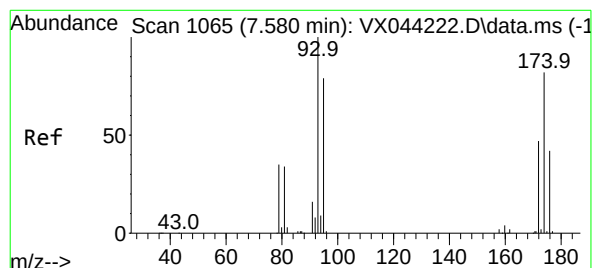
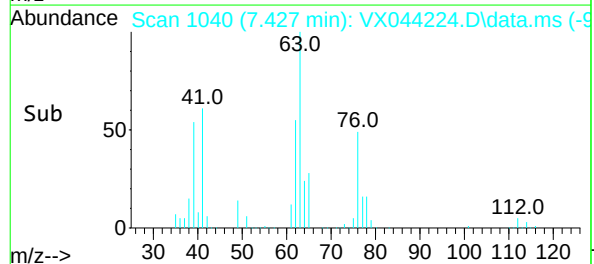
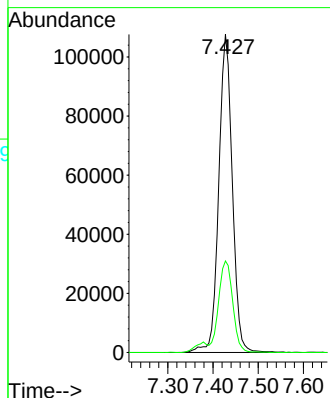
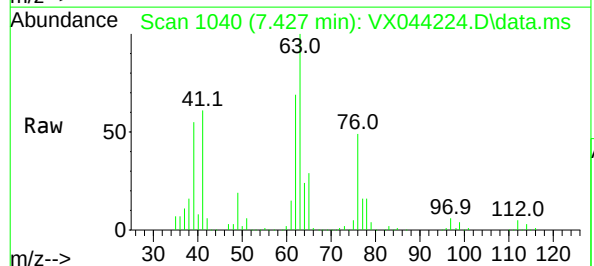
65 28.8 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#46

Dibromomethane

Concen: 156.728 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

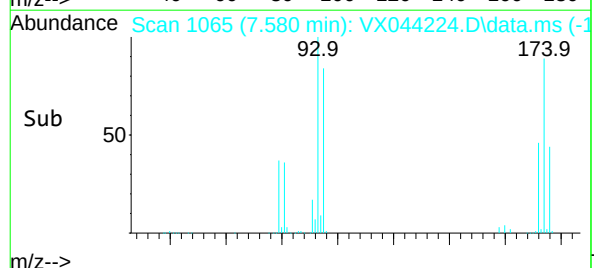
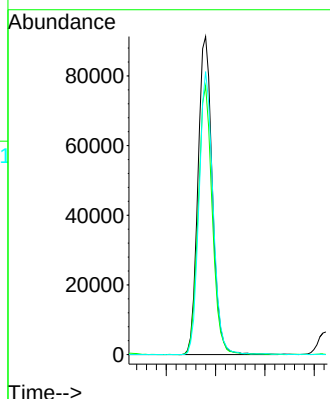
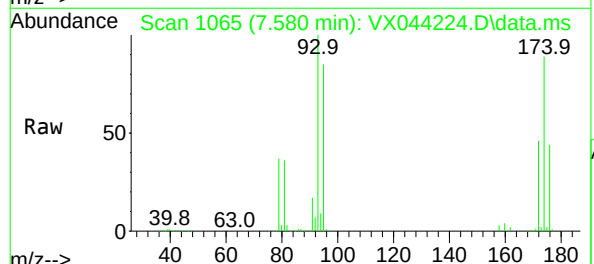
Tgt Ion: 93 Resp: 184590

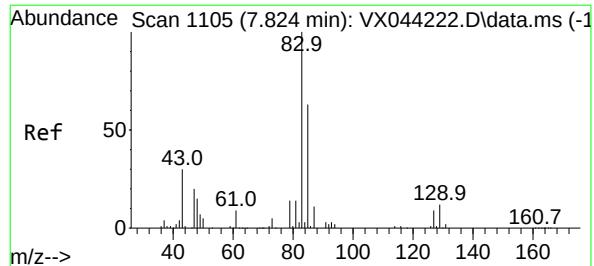
Ion Ratio Lower Upper

93 100

95 82.4 65.4 98.2

174 86.7 67.9 101.9





#47

Bromodichloromethane

Concen: 173.496 ug/l

RT: 7.818 min Scan# 1105

Delta R.T. -0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 352904

Ion Ratio Lower Upper

83 100

85 64.3 50.6 75.8

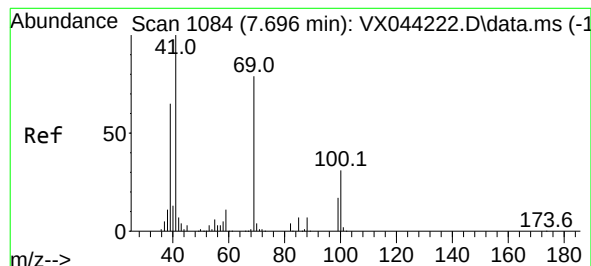
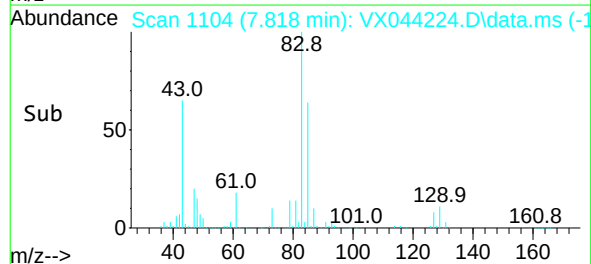
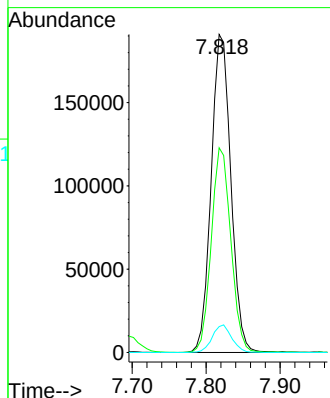
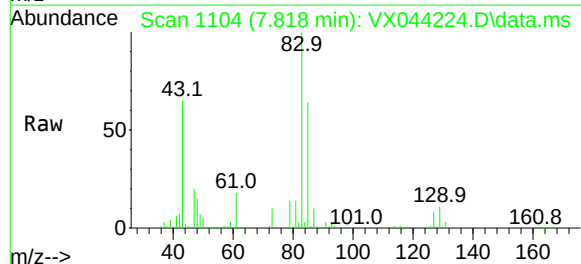
127 8.1 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#48

Methyl methacrylate

Concen: 159.567 ug/l

RT: 7.696 min Scan# 1084

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

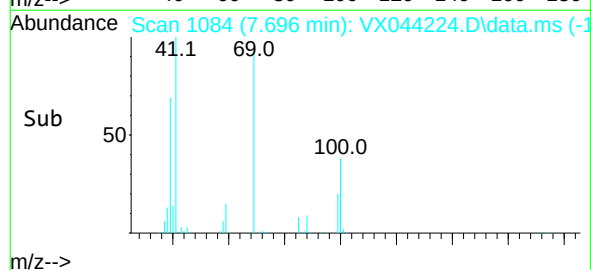
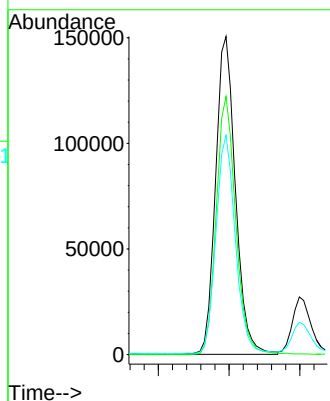
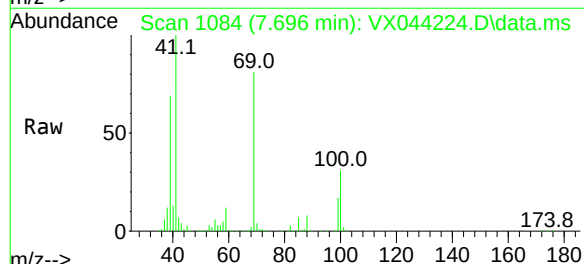
Tgt Ion: 41 Resp: 292890

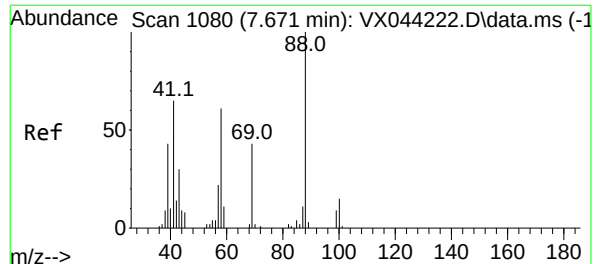
Ion Ratio Lower Upper

41 100

69 80.0 62.4 93.6

39 67.8 53.3 79.9





#49

1,4-Dioxane

Concen: 3221.248 ug/l m

RT: 7.665 min Scan# 10

Delta R.T. -0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 88 Resp: 101048

Ion Ratio Lower Upper

88 100

43 35.1 27.1 40.7

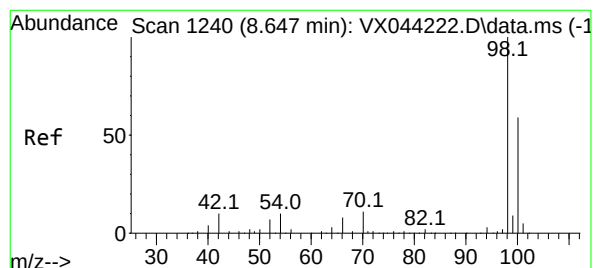
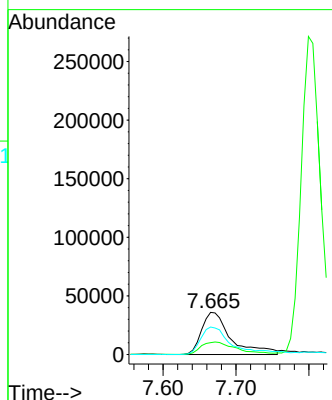
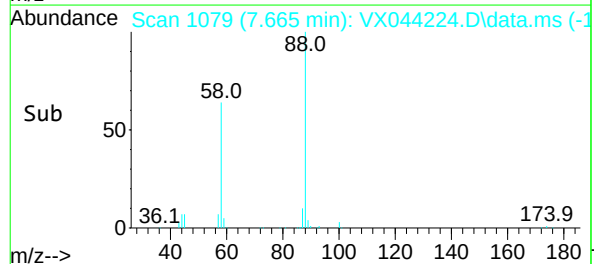
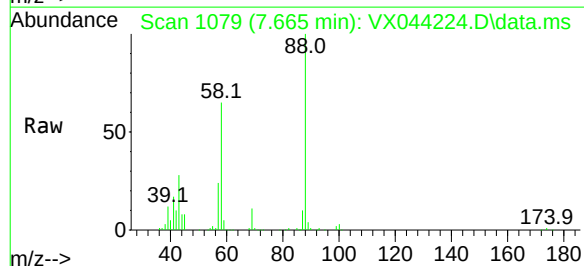
58 69.6 41.0 61.4#

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#50

Toluene-d8

Concen: 154.438 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX044224.D

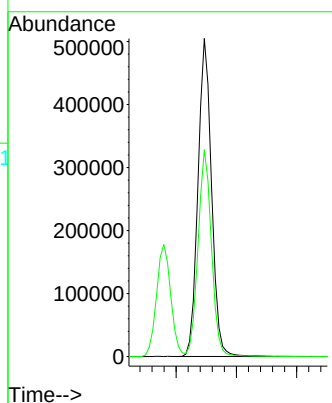
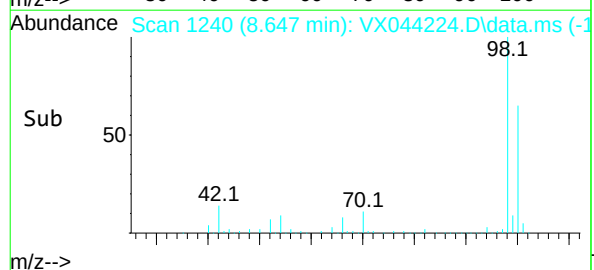
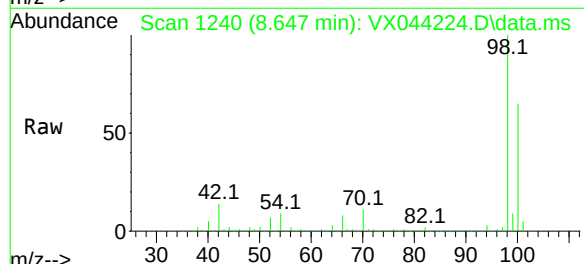
Acq: 11 Dec 2024 13:00

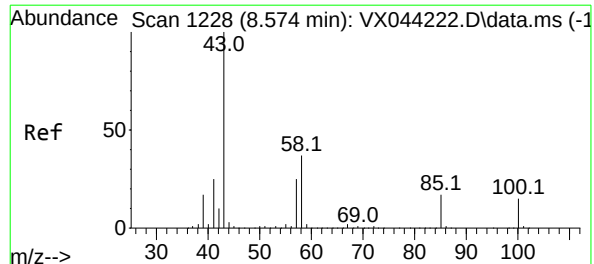
Tgt Ion: 98 Resp: 788876

Ion Ratio Lower Upper

98 100

100 64.4 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 784.573 ug/l

RT: 8.580 min Scan# 1228

Delta R.T. 0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 1907523

Ion Ratio Lower Upper

43 100

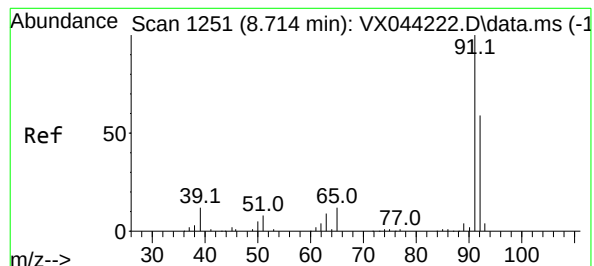
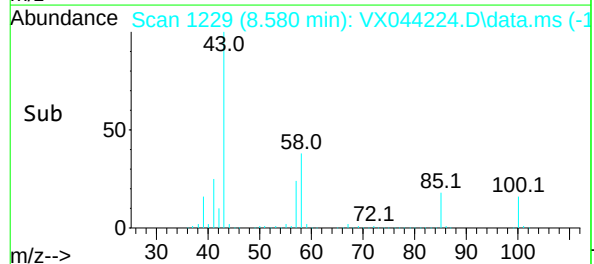
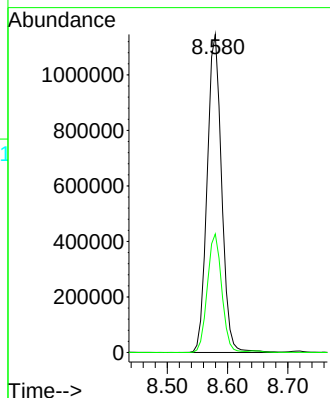
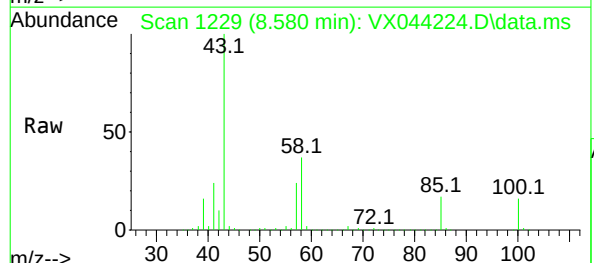
58 37.1 29.4 44.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#52

Toluene

Concen: 149.294 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. -0.000 min

Lab File: VX044224.D

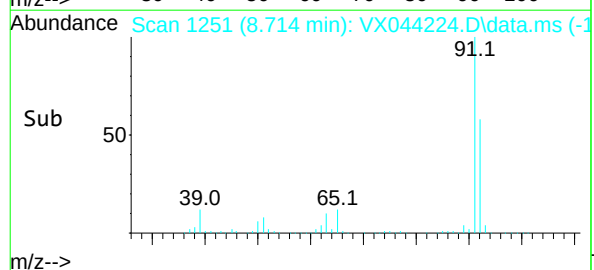
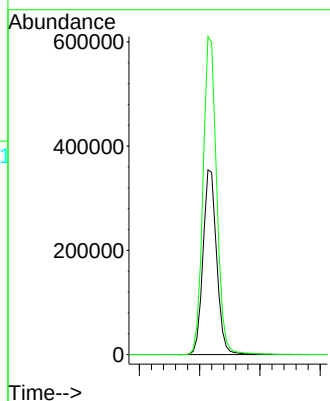
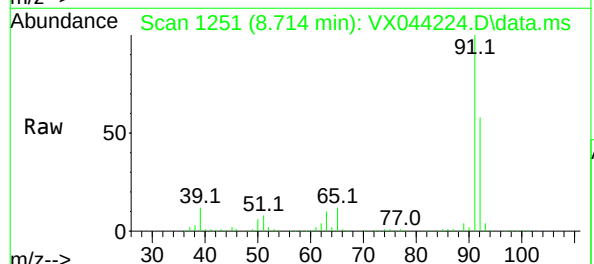
Acq: 11 Dec 2024 13:00

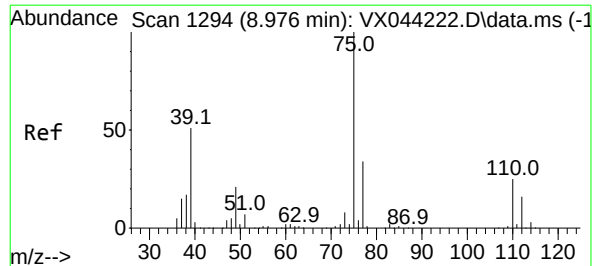
Tgt Ion: 92 Resp: 557102

Ion Ratio Lower Upper

92 100

91 172.4 137.0 205.6





#53

t-1,3-Dichloropropene

Concen: 150.167 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 366275

Ion Ratio Lower Upper

75 100

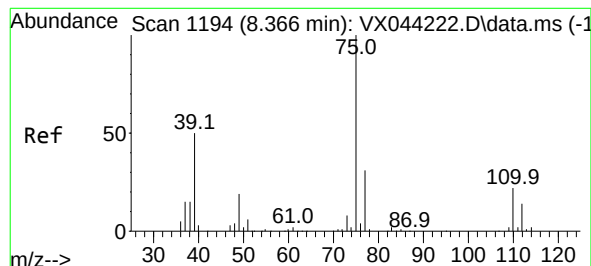
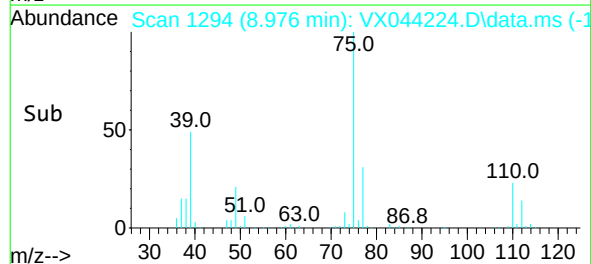
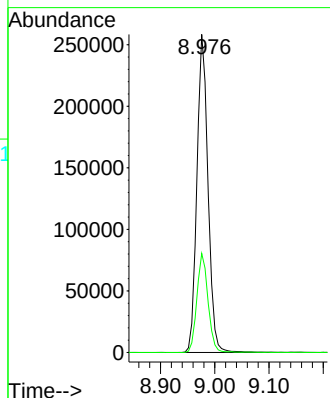
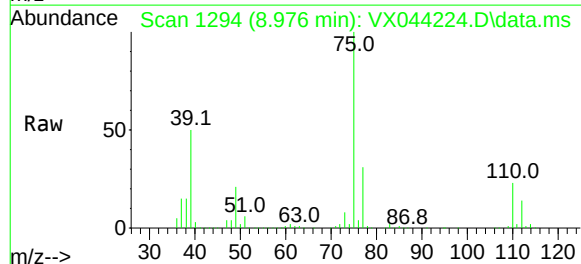
77 31.1 27.2 40.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#54

cis-1,3-Dichloropropene

Concen: 172.581 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

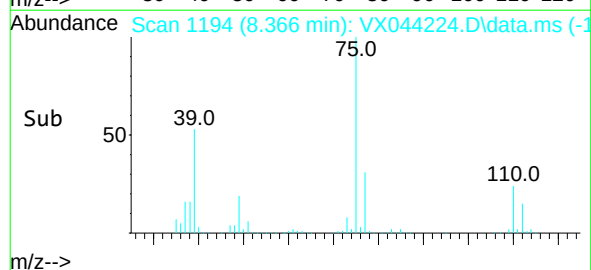
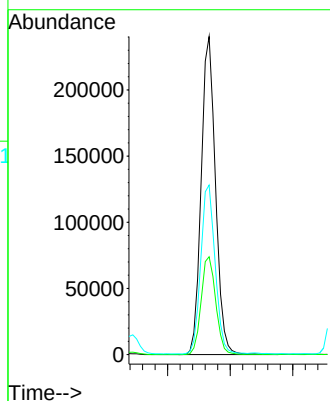
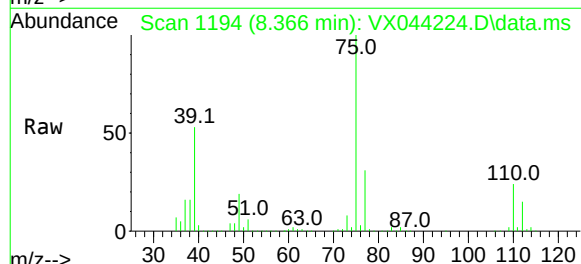
Tgt Ion: 75 Resp: 382226

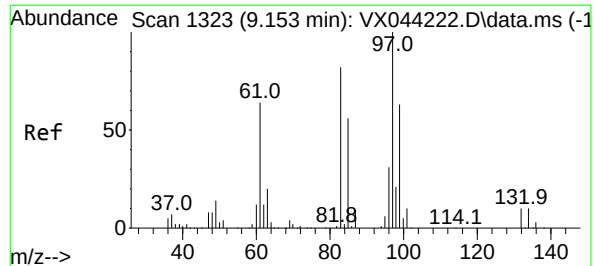
Ion Ratio Lower Upper

75 100

77 30.8 24.7 37.1

39 53.1 40.3 60.5





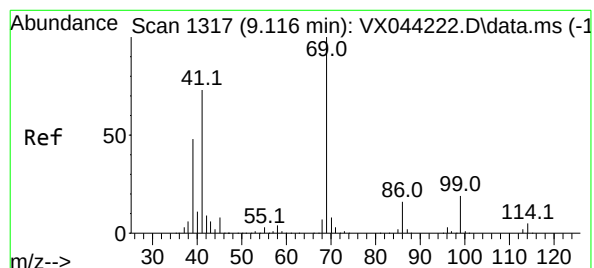
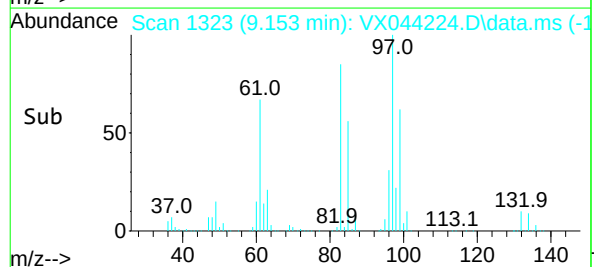
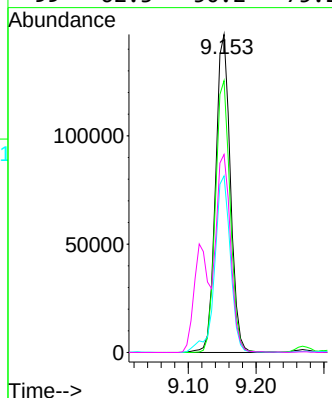
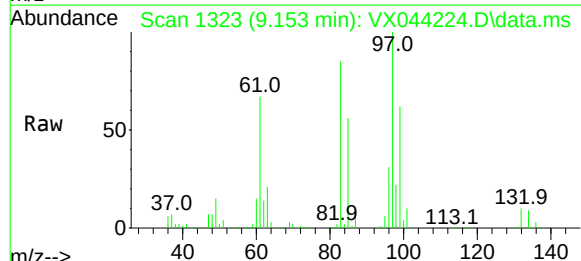
#55
1,1,2-Trichloroethane
Concen: 150.202 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:	97	Resp:	222665
Ion	Ratio	Lower	Upper
97	100		
83	85.5	65.3	97.9
85	55.5	44.6	67.0
99	62.3	50.2	75.2

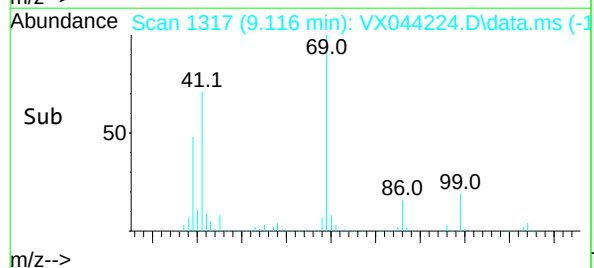
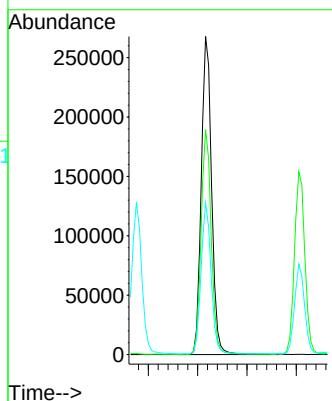
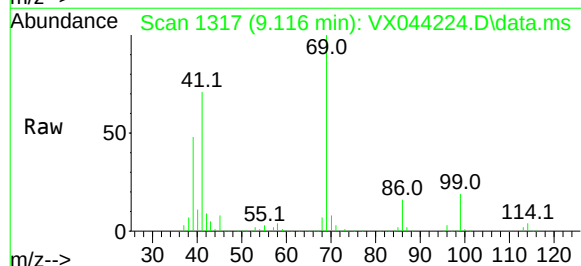
Manual Integrations
APPROVED

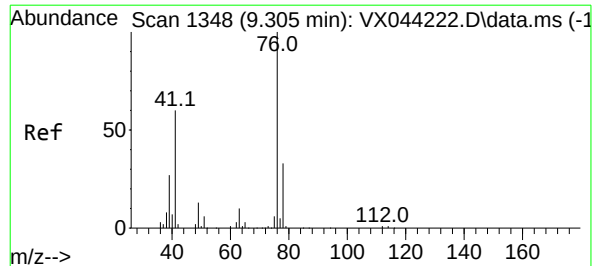
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#56
Ethyl methacrylate
Concen: 166.289 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:	69	Resp:	389165
Ion	Ratio	Lower	Upper
69	100		
41	69.4	56.6	85.0
39	46.2	37.4	56.0





#57

1,3-Dichloropropane

Concen: 150.014 ug/l

RT: 9.305 min Scan# 13

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 387086

Ion Ratio Lower Upper

76 100

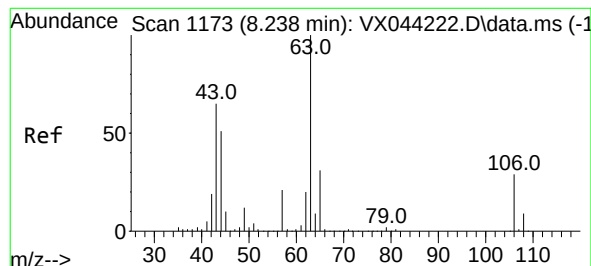
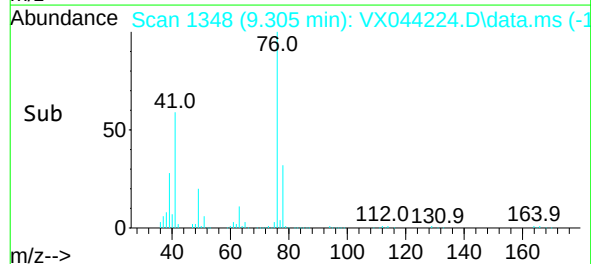
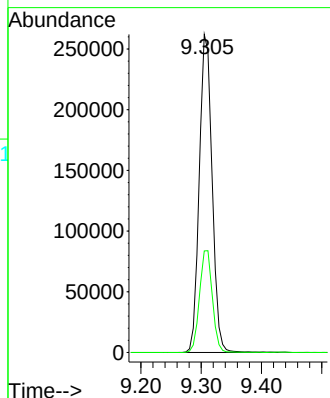
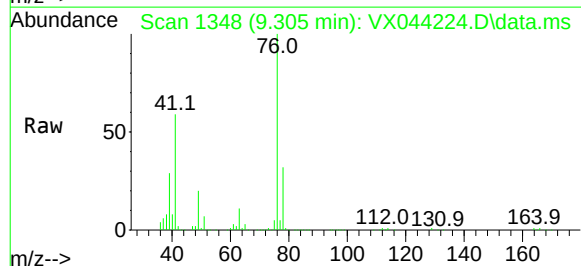
78 32.2 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#58

2-Chloroethyl Vinyl ether

Concen: 822.575 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. 0.006 min

Lab File: VX044224.D

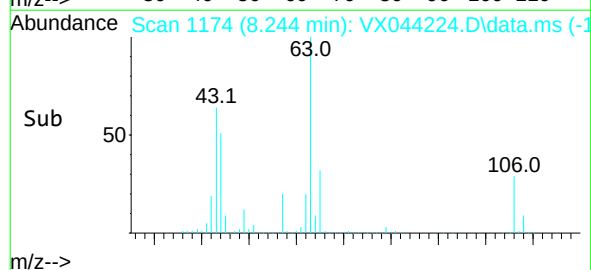
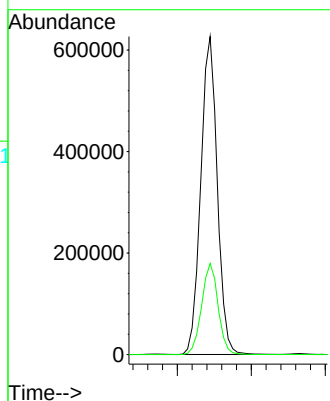
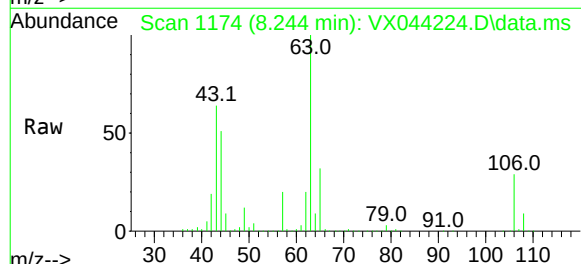
Acq: 11 Dec 2024 13:00

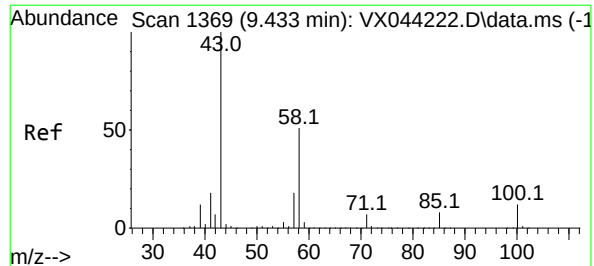
Tgt Ion: 63 Resp: 970949

Ion Ratio Lower Upper

63 100

106 28.5 22.8 34.2





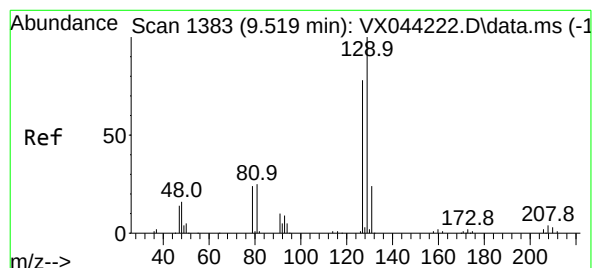
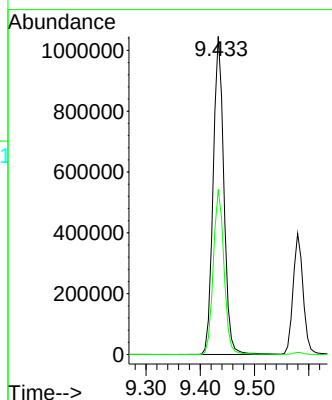
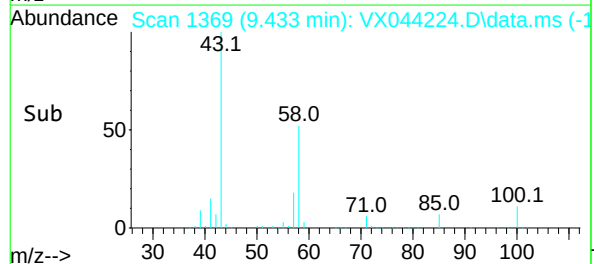
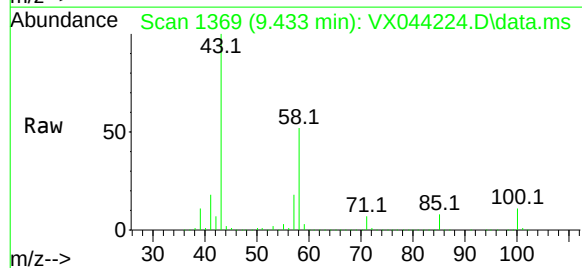
#59
2-Hexanone
Concen: 816.161 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 43 Resp: 1436300
Ion Ratio Lower Upper
43 100
58 52.0 25.7 77.0

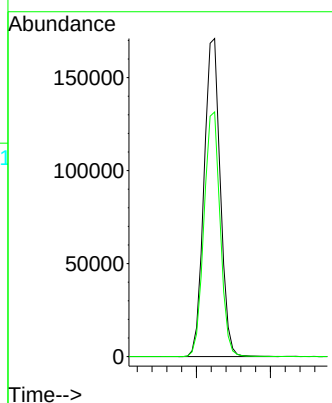
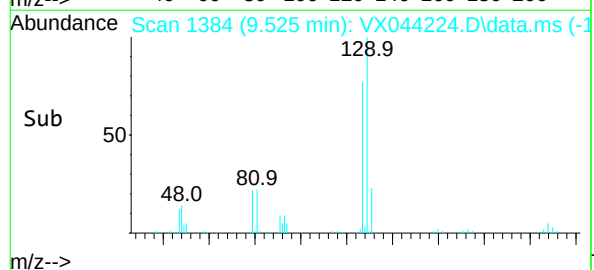
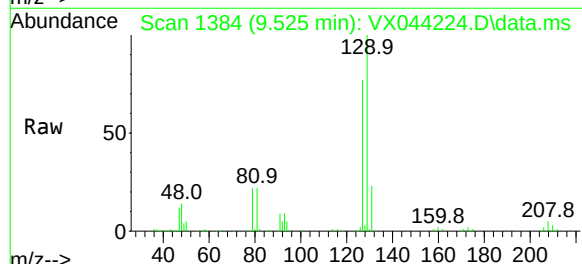
Manual Integrations
APPROVED

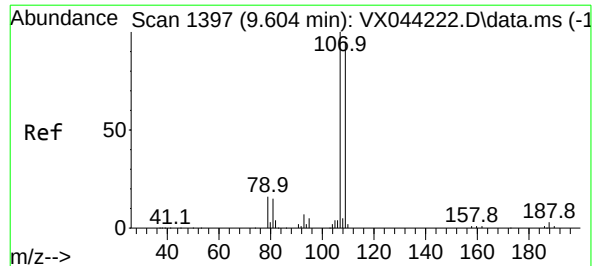
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#60
Dibromochloromethane
Concen: 150.105 ug/l
RT: 9.525 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:129 Resp: 261253
Ion Ratio Lower Upper
129 100
127 76.5 38.5 115.3





#61

1,2-Dibromoethane

Concen: 160.674 ug/l

RT: 9.610 min Scan# 1397

Delta R.T. 0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:107 Resp: 242451

Ion Ratio Lower Upper

107 100

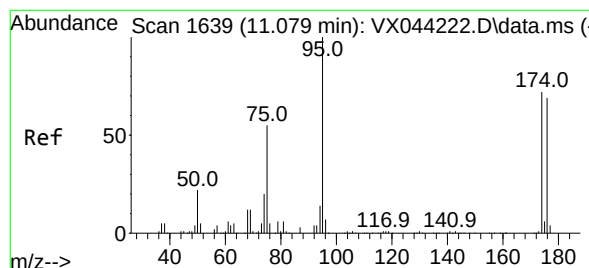
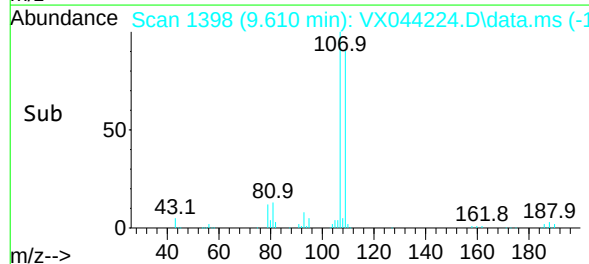
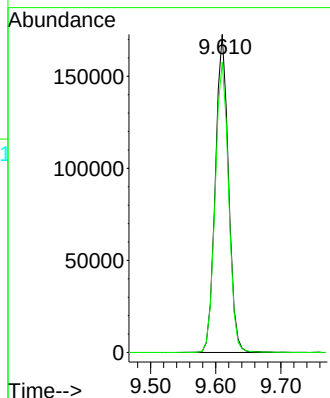
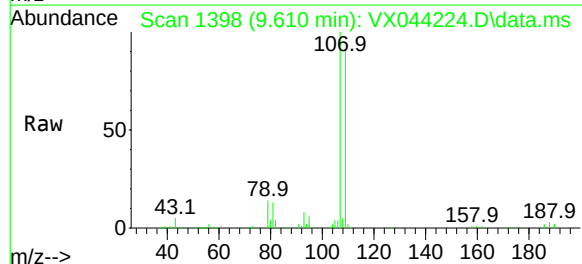
109 93.4 77.0 115.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#62

4-Bromofluorobenzene

Concen: 156.709 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

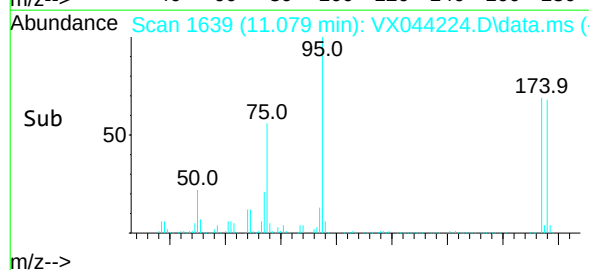
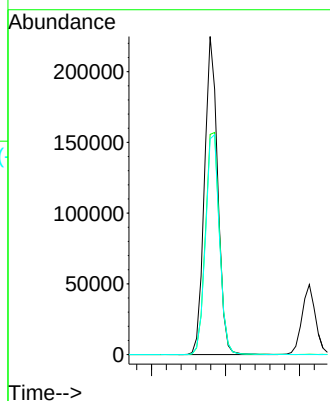
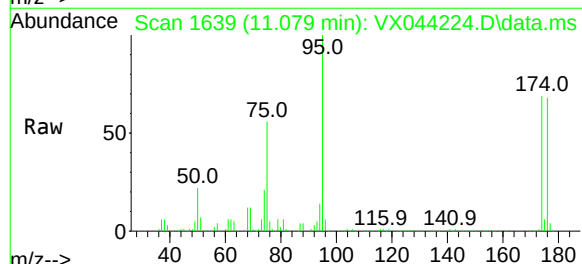
Tgt Ion: 95 Resp: 279706

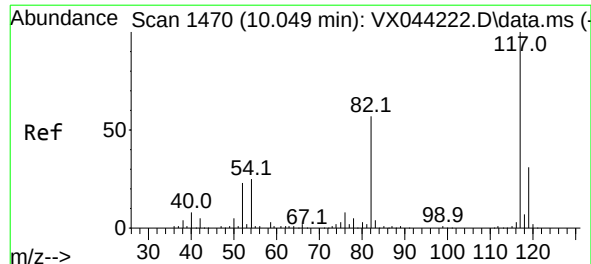
Ion Ratio Lower Upper

95 100

174 74.1 0.0 145.8

176 72.6 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

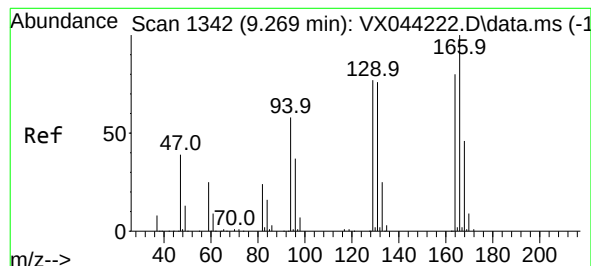
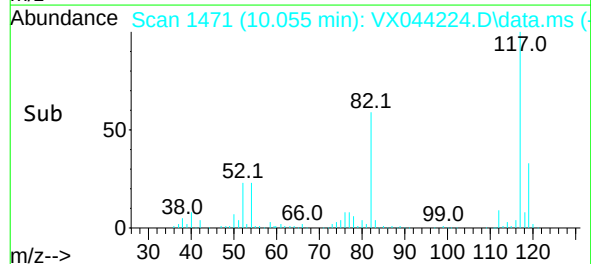
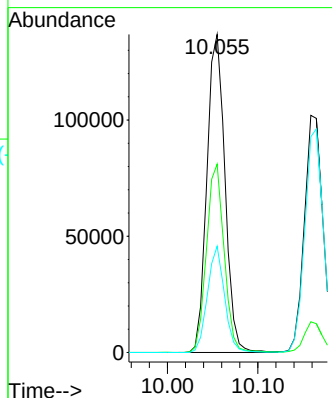
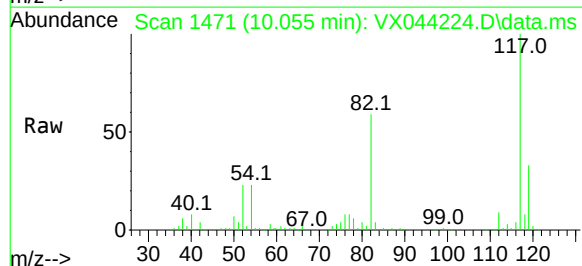
ClientSampleId :

VSTDICC150

Tgt Ion:	117	Resp:	190013
Ion	Ratio	Lower	Upper
117	100		
82	59.2	45.8	68.8
119	33.4	25.0	37.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#64

Tetrachloroethene

Concen: 147.836 ug/l

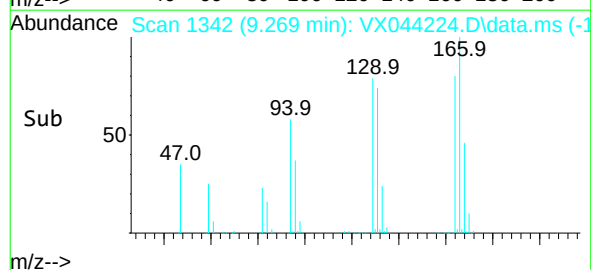
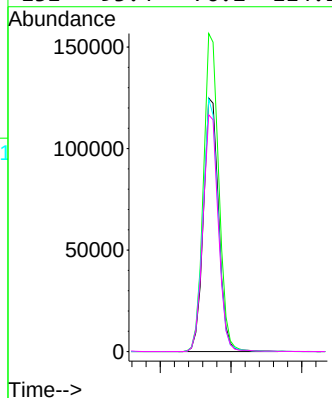
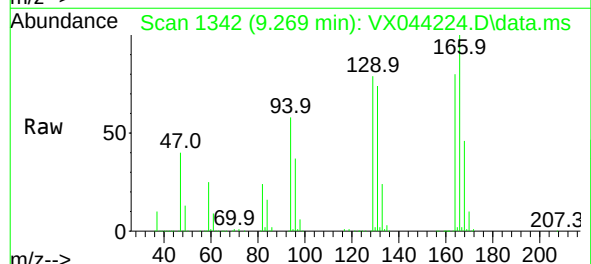
RT: 9.269 min Scan# 1342

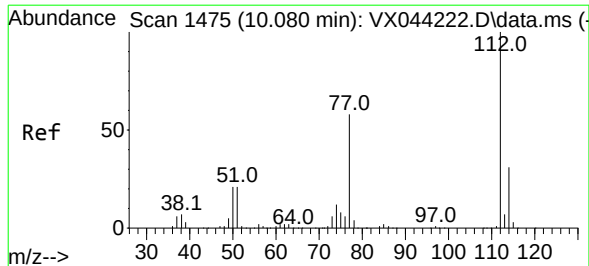
Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Tgt Ion:	164	Resp:	186443
Ion	Ratio	Lower	Upper
164	100		
166	125.5	100.4	150.6
129	99.7	77.2	115.8
131	93.4	76.2	114.2





#65

Chlorobenzene

Concen: 149.428 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:112 Resp: 608404

Ion Ratio Lower Upper

112 100

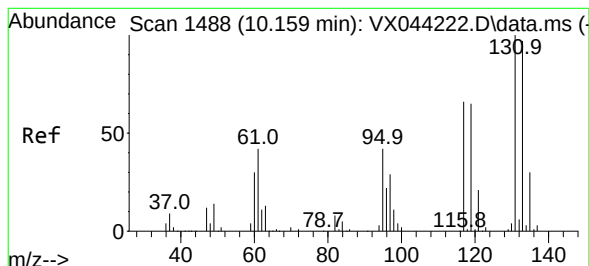
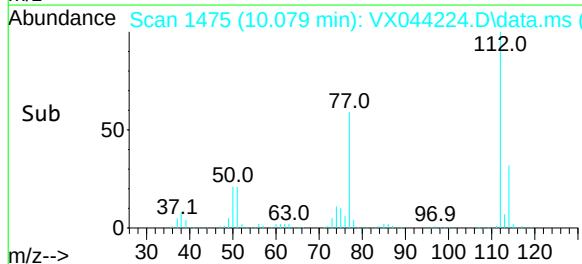
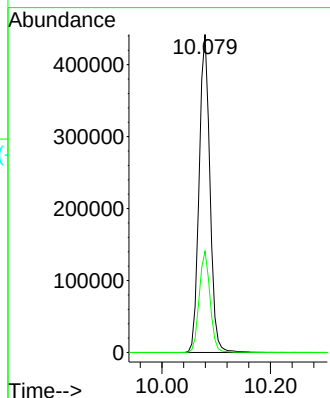
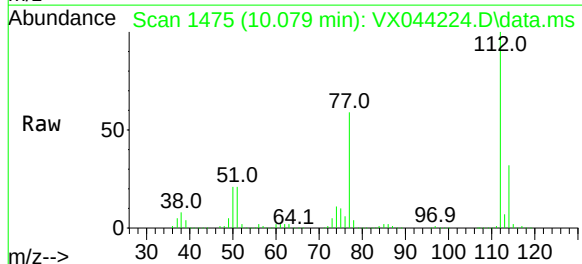
114 31.9 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 166.991 ug/l

RT: 10.165 min Scan# 1489

Delta R.T. 0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

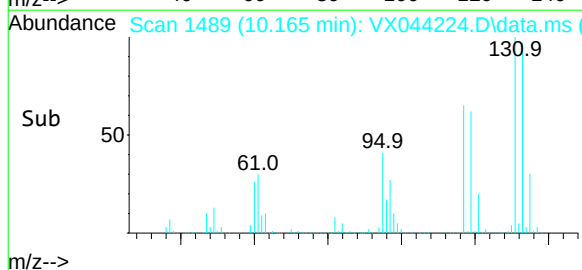
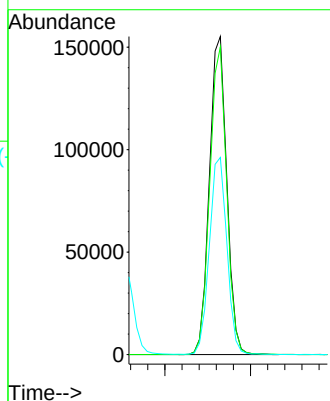
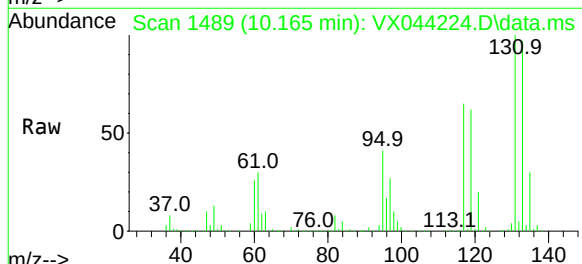
Tgt Ion:131 Resp: 218515

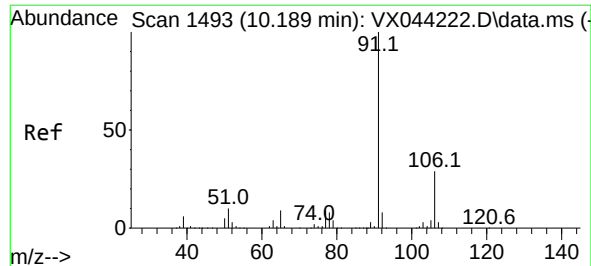
Ion Ratio Lower Upper

131 100

133 94.5 47.3 141.8

119 62.7 31.6 95.0





#67

Ethyl Benzene

Concen: 151.917 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. 0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 91 Resp: 1068736

Ion Ratio Lower Upper

91 100

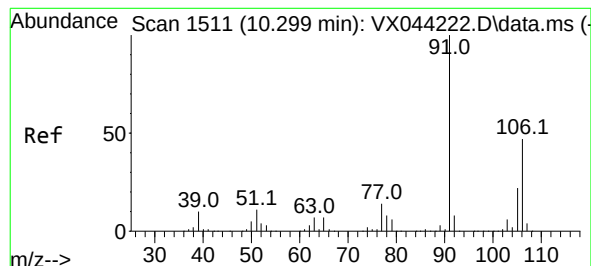
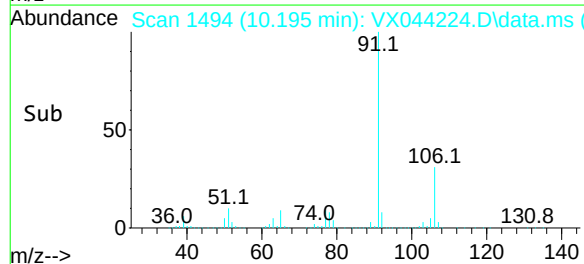
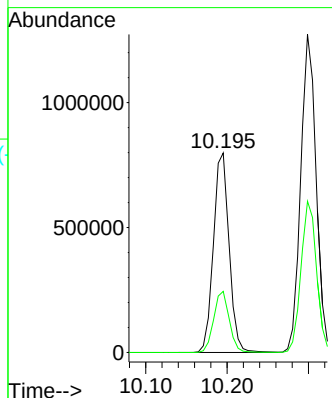
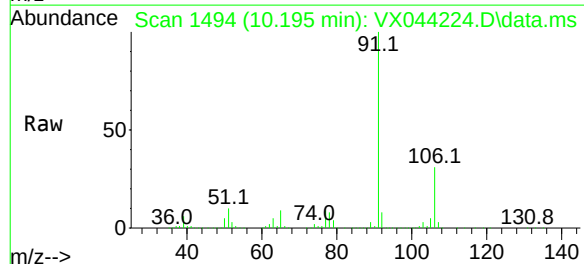
106 30.6 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#68

m/p-Xylenes

Concen: 312.254 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX044224.D

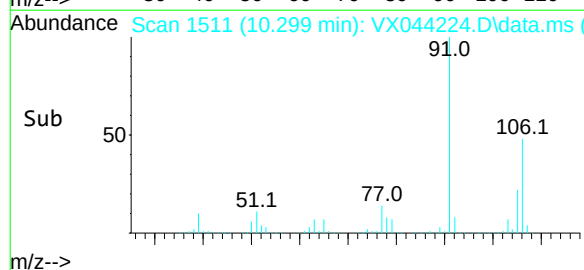
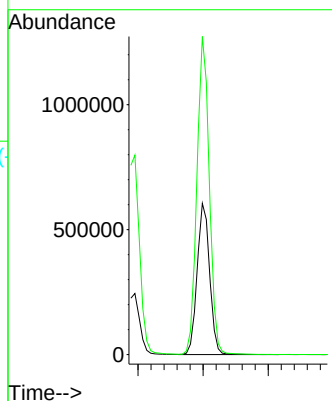
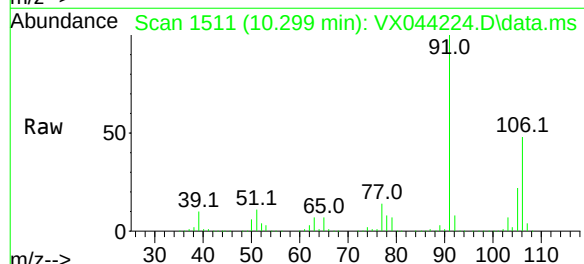
Acq: 11 Dec 2024 13:00

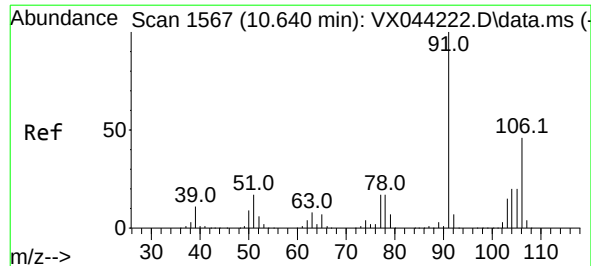
Tgt Ion:106 Resp: 806058

Ion Ratio Lower Upper

106 100

91 208.8 170.2 255.2





#69

o-Xylene

Concen: 152.030 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:106 Resp: 397084

Ion Ratio Lower Upper

106 100

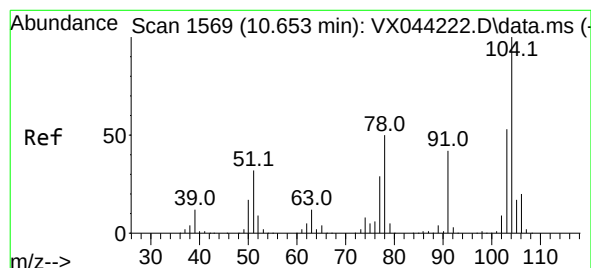
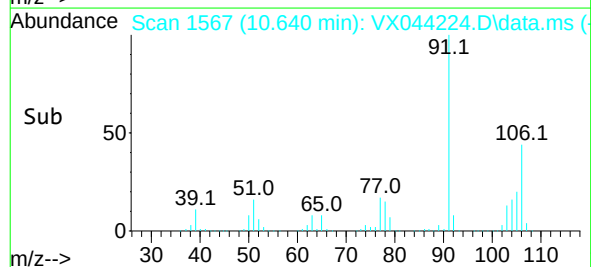
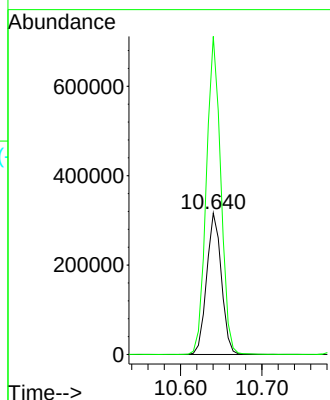
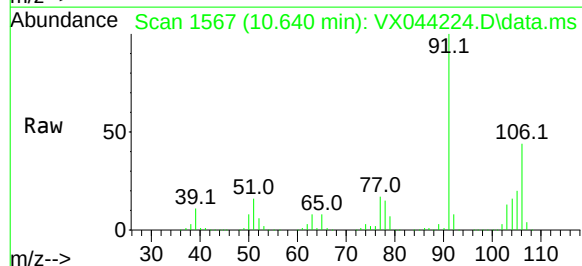
91 221.5 112.3 337.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#70

Styrene

Concen: 160.228 ug/l

RT: 10.652 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

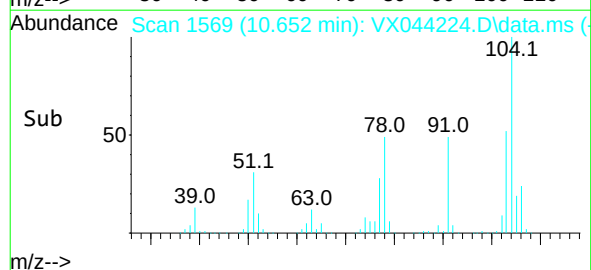
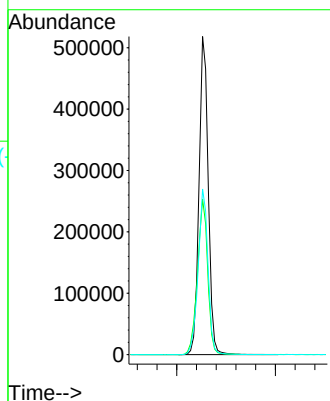
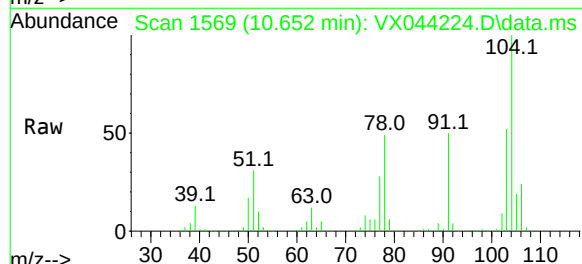
Tgt Ion:104 Resp: 670887

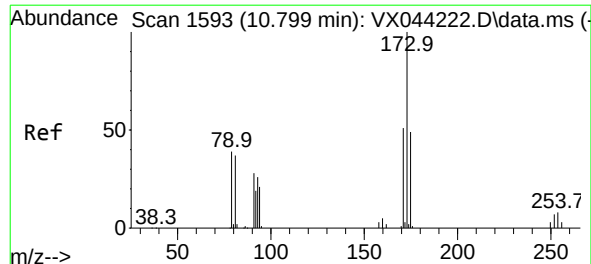
Ion Ratio Lower Upper

104 100

78 54.2 44.6 67.0

103 55.9 45.4 68.0





#71

Bromoform

Concen: 150.034 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:173 Resp: 169450

Ion Ratio Lower Upper

173 100

175 46.8 23.8 71.4

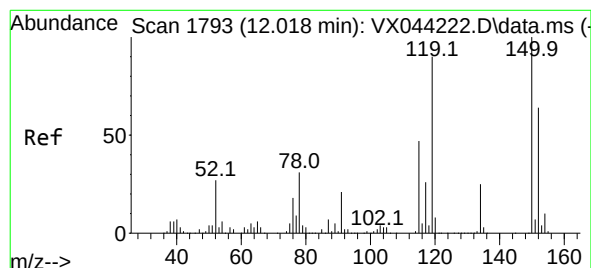
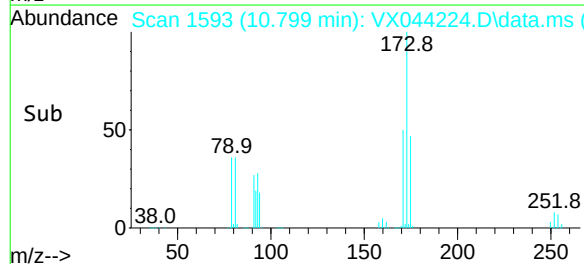
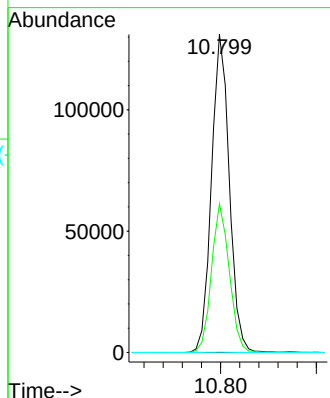
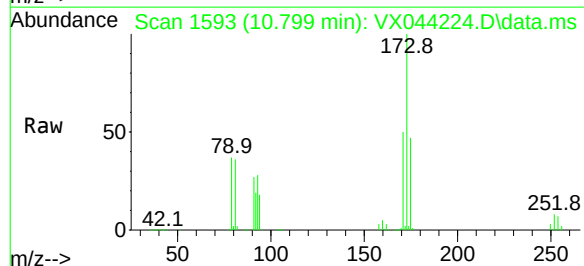
254 0.1 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

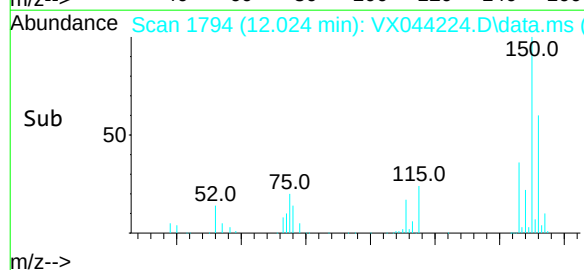
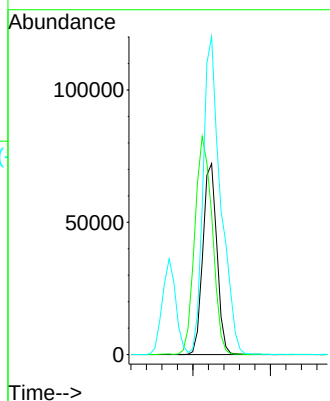
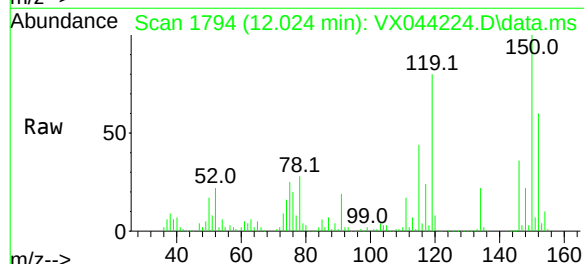
Tgt Ion:152 Resp: 90898

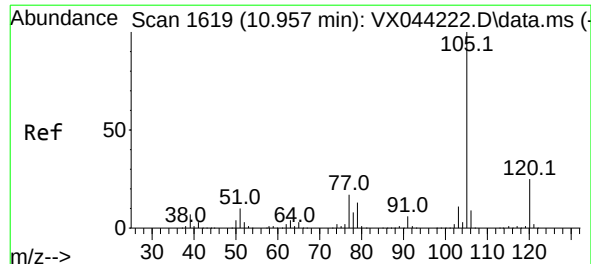
Ion Ratio Lower Upper

152 100

115 142.2 44.5 133.3

150 208.8 0.0 353.8





#73

Isopropylbenzene

Concen: 146.832 ug/l

RT: 10.963 min Scan# 1619

Delta R.T. 0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 105 Resp: 1021749

Ion Ratio Lower Upper

105 100

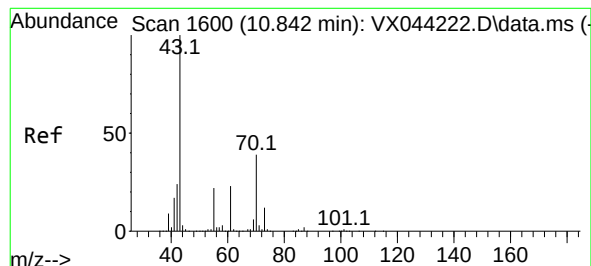
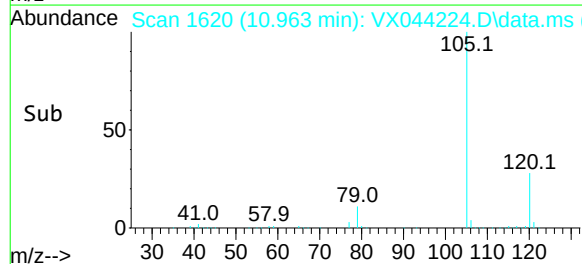
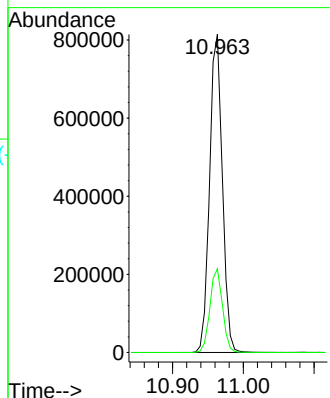
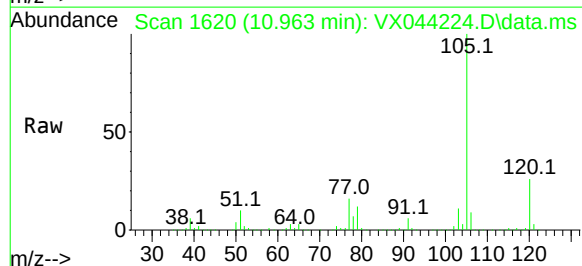
120 25.9 13.1 39.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#74

N-ethyl acetate

Concen: 166.823 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 536496

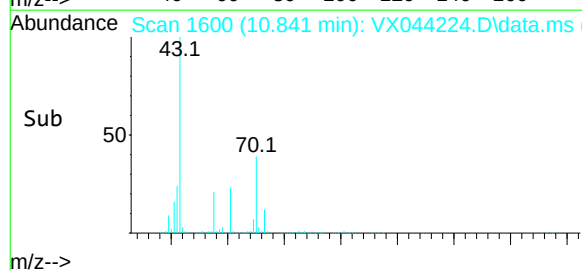
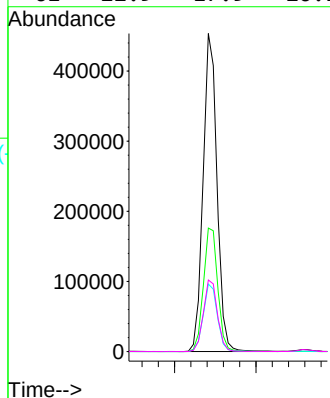
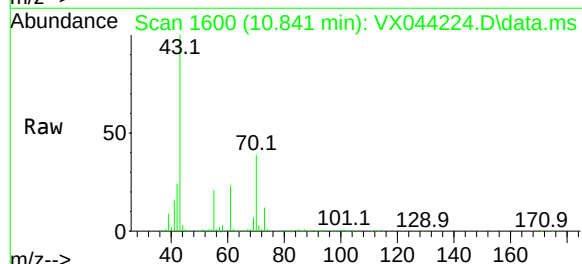
Ion Ratio Lower Upper

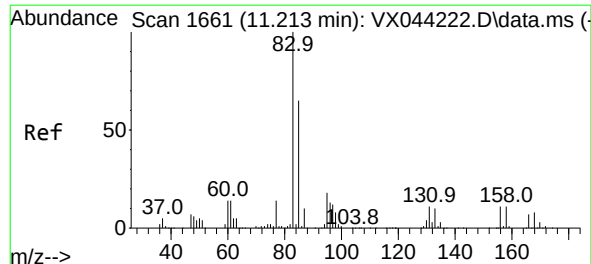
43 100

70 40.3 31.9 47.9

55 21.6 17.9 26.9

61 22.9 17.9 26.9





#75

1,1,2,2-Tetrachloroethane

Concen: 145.883 ug/l

RT: 11.213 min Scan# 1661

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

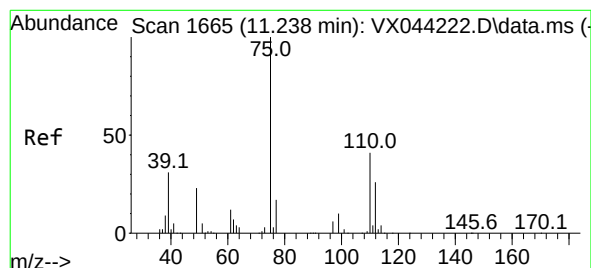
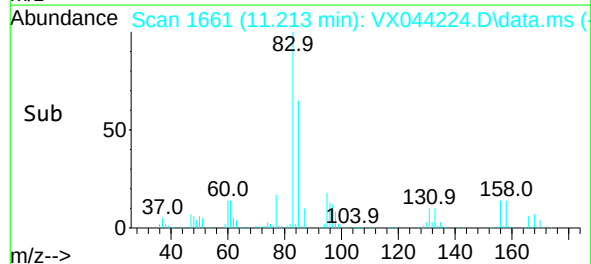
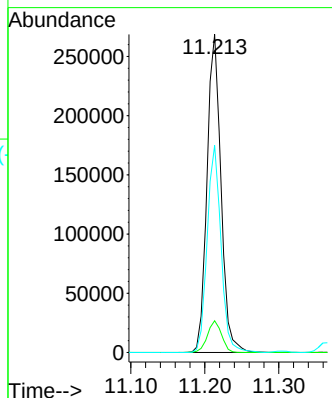
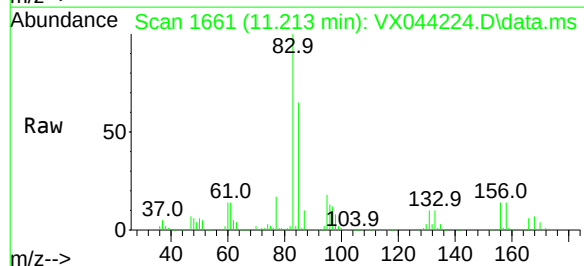
ClientSampleId :

VSTDIC150

Tgt Ion:	83	Resp:	352591
Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	64.4	32.5	97.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#76

1,2,3-Trichloropropane

Concen: 139.434 ug/l m

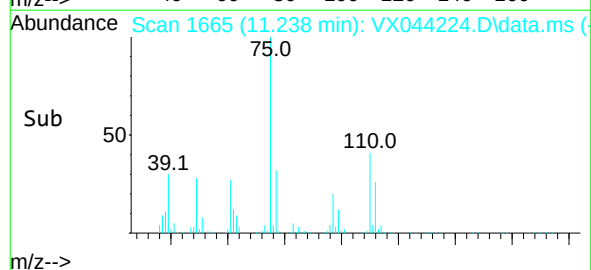
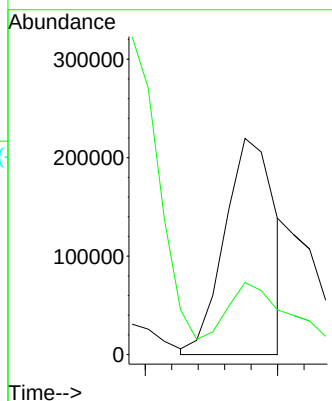
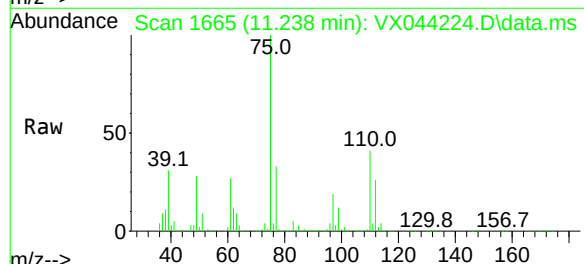
RT: 11.238 min Scan# 1665

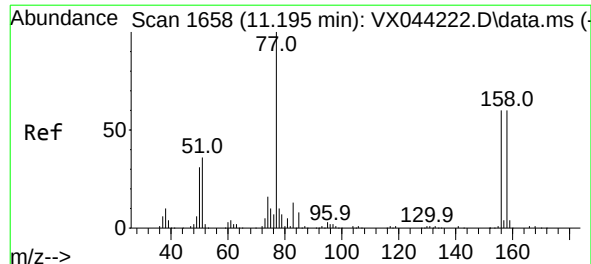
Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Tgt Ion:	75	Resp:	287602
Ion	Ratio	Lower	Upper
75	100		
77	45.2	20.9	62.7





#77

Bromobenzene

Concen: 144.584 ug/l

RT: 11.201 min Scan# 1659

Delta R.T. 0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

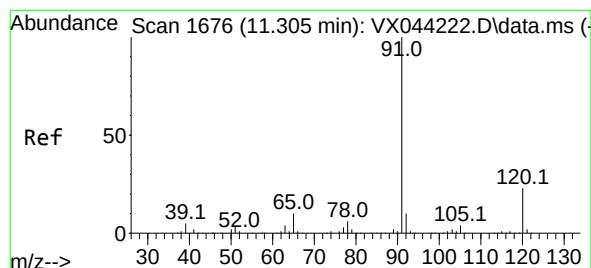
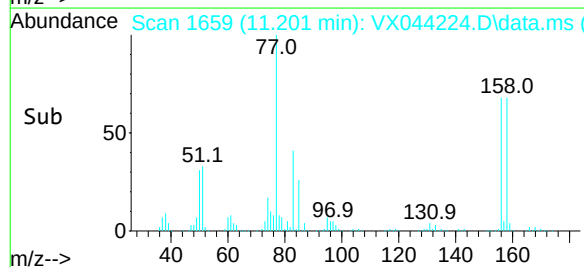
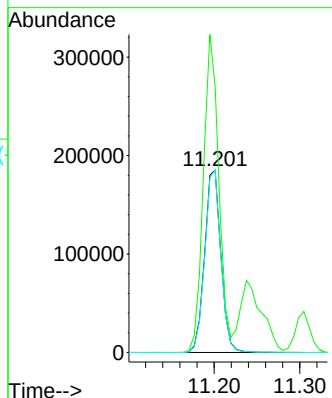
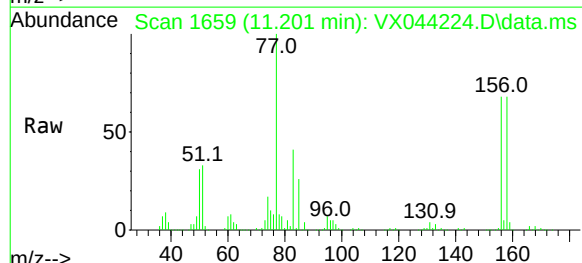
ClientSampleId :

VSTDIC150

Tgt Ion:	156	Resp:	243975
Ion Ratio	Lower	Upper	
156	100		
77	165.5	82.6	247.8
158	98.2	48.8	146.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#78

n-propylbenzene

Concen: 151.637 ug/l

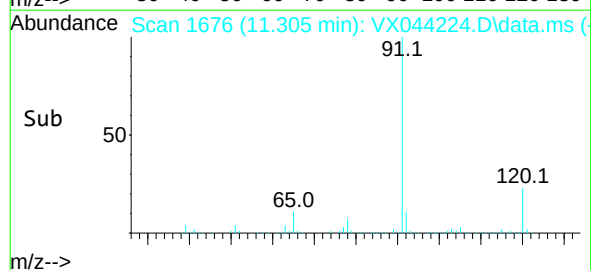
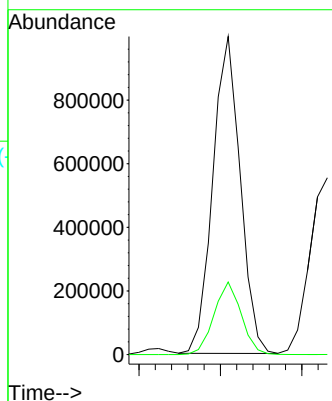
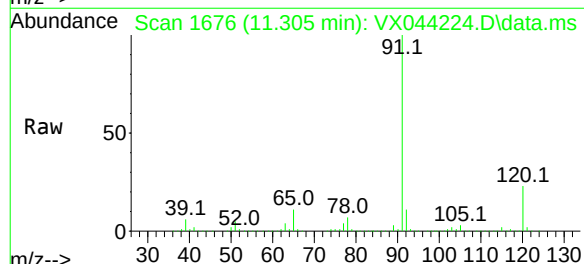
RT: 11.305 min Scan# 1676

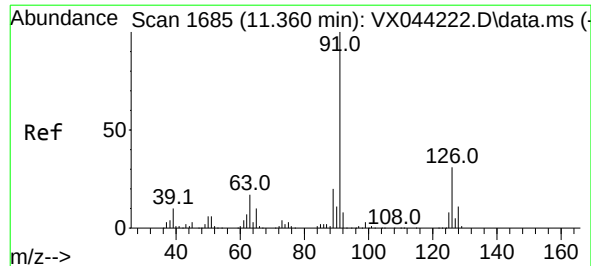
Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Tgt Ion:	91	Resp:	1166255
Ion Ratio	Lower	Upper	
91	100		
120	22.7	11.0	33.0





#79

2-Chlorotoluene

Concen: 140.866 ug/l

RT: 11.366 min Scan# 1685

Delta R.T. 0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 91 Resp: 700673

Ion Ratio Lower Upper

91 100

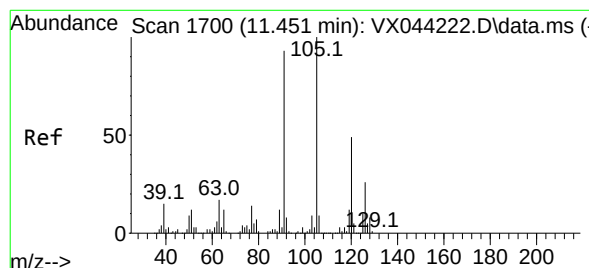
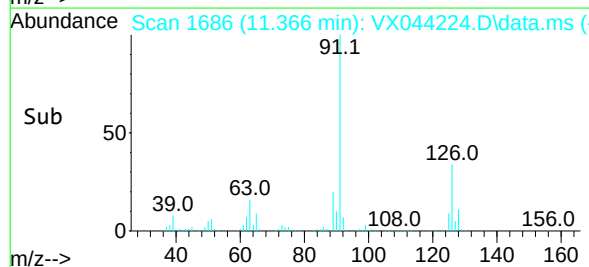
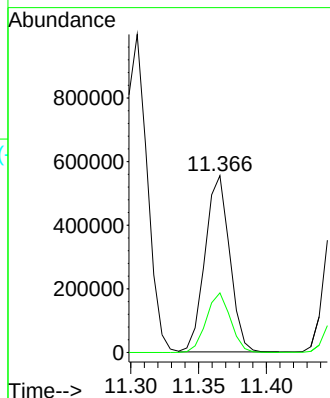
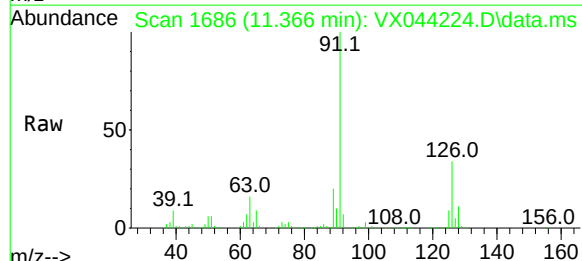
126 33.2 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#80

1,3,5-Trimethylbenzene

Concen: 147.824 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX044224.D

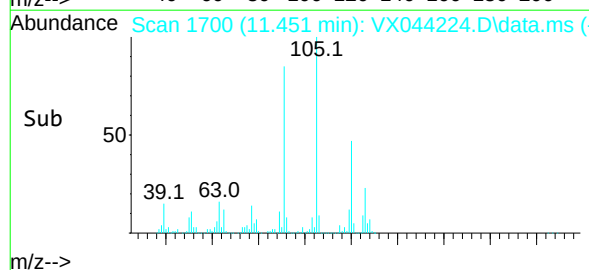
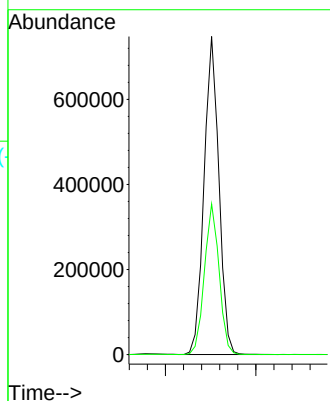
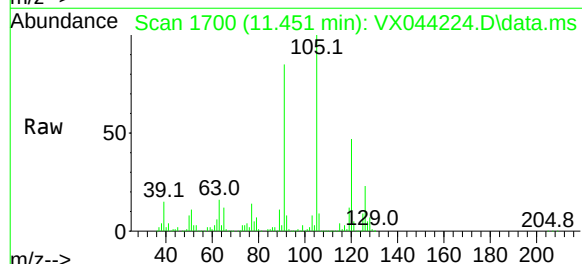
Acq: 11 Dec 2024 13:00

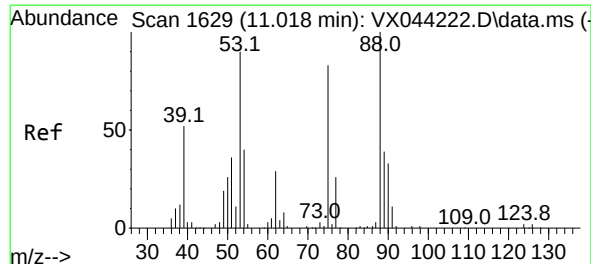
Tgt Ion:105 Resp: 853042

Ion Ratio Lower Upper

105 100

120 46.8 23.8 71.4





#81

trans-1,4-Dichloro-2-butene

Concen: 152.670 ug/l

RT: 11.018 min Scan# 1629

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 117263

Ion Ratio Lower Upper

75 100

53 107.3 93.6 140.4

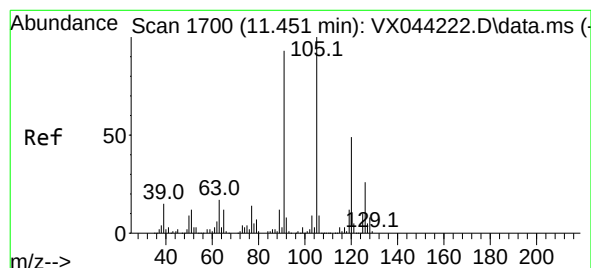
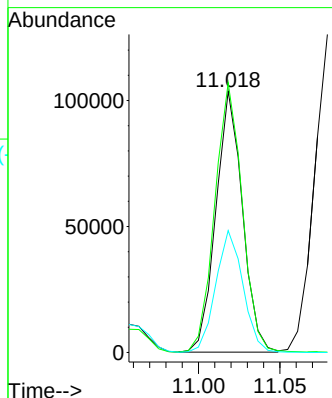
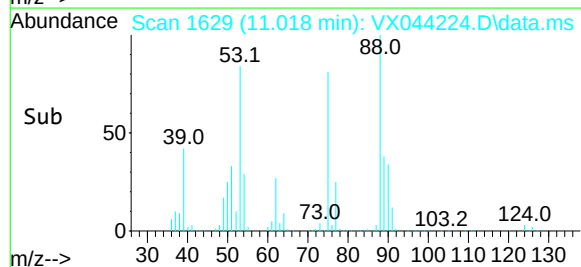
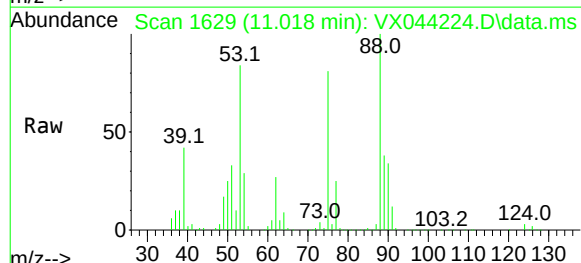
89 48.2 37.3 55.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#82

4-Chlorotoluene

Concen: 149.831 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX044224.D

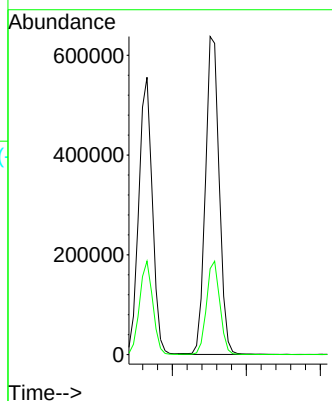
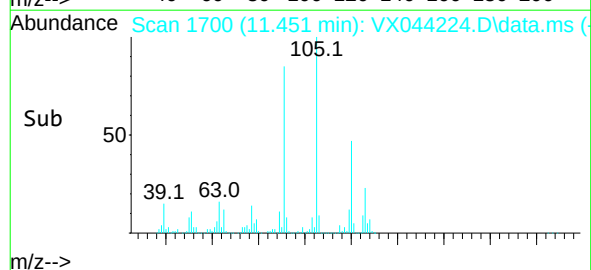
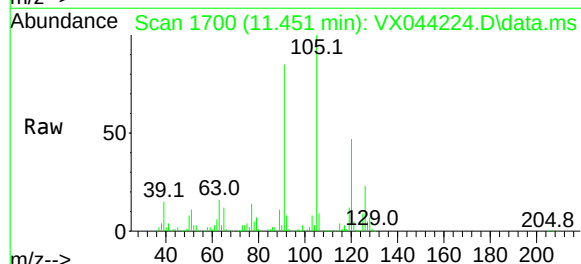
Acq: 11 Dec 2024 13:00

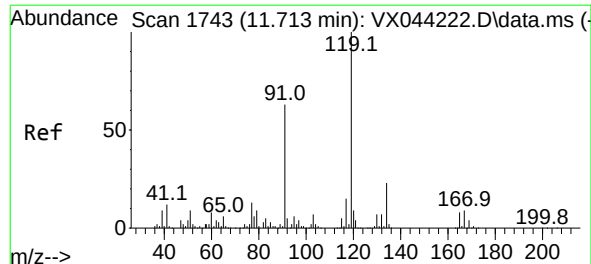
Tgt Ion: 91 Resp: 825278

Ion Ratio Lower Upper

91 100

126 28.5 14.5 43.5





#83

tert-Butylbenzene

Concen: 148.495 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:119 Resp: 846864

Ion Ratio Lower Upper

119 100

91 61.3 30.9 92.5

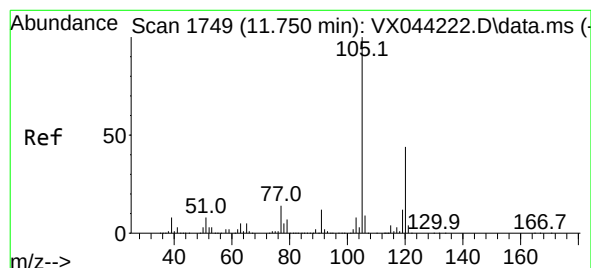
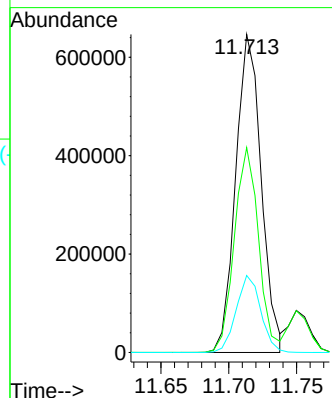
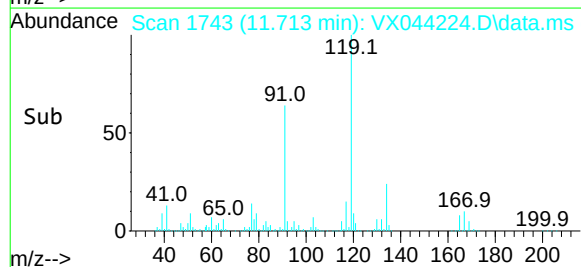
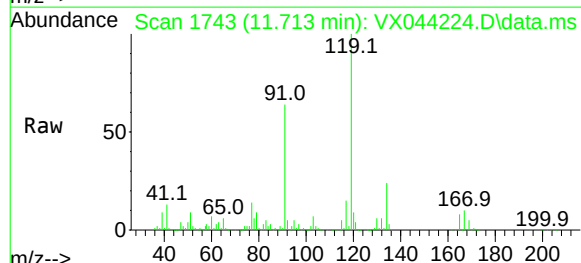
134 23.3 11.5 34.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#84

1,2,4-Trimethylbenzene

Concen: 149.414 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX044224.D

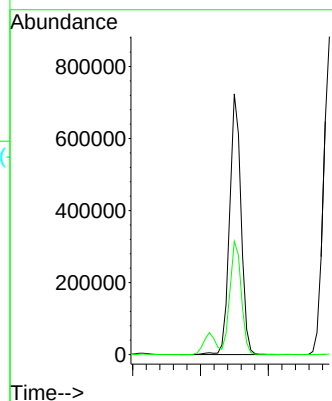
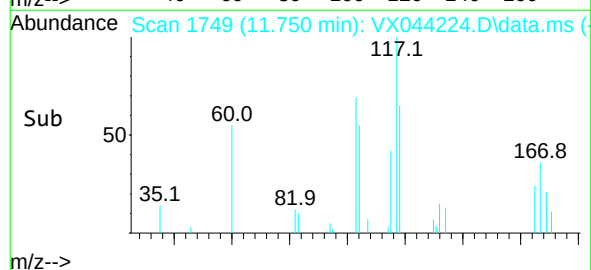
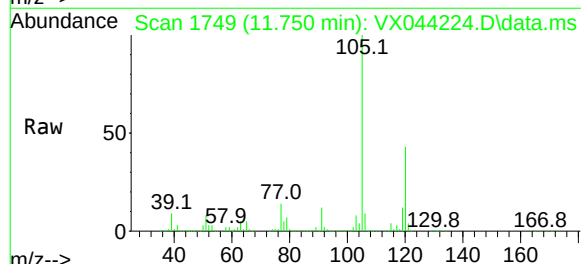
Acq: 11 Dec 2024 13:00

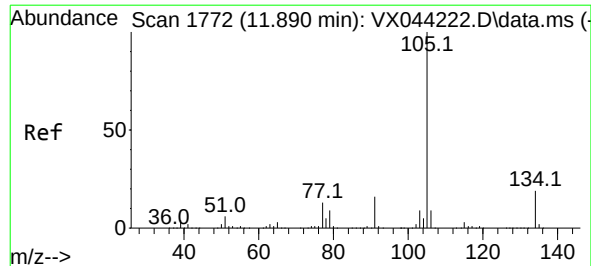
Tgt Ion:105 Resp: 846771

Ion Ratio Lower Upper

105 100

120 43.2 21.7 65.1





#85

sec-Butylbenzene

Concen: 149.409 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:105 Resp: 1034419

Ion Ratio Lower Upper

105 100

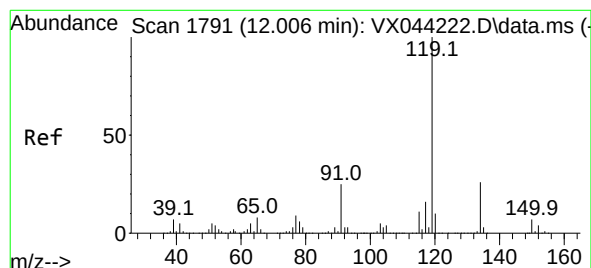
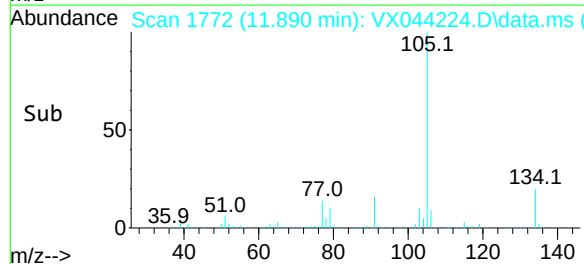
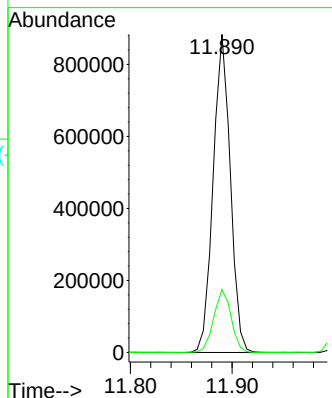
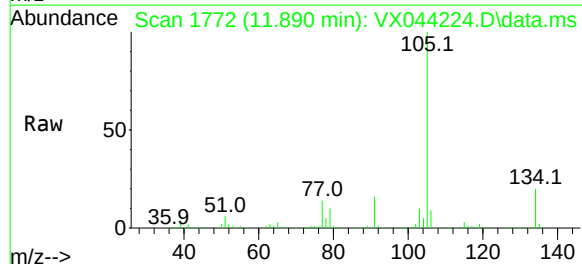
134 20.1 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#86

p-Isopropyltoluene

Concen: 151.944 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

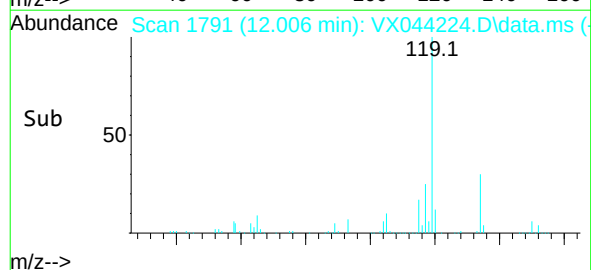
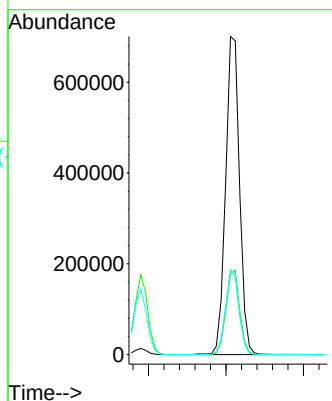
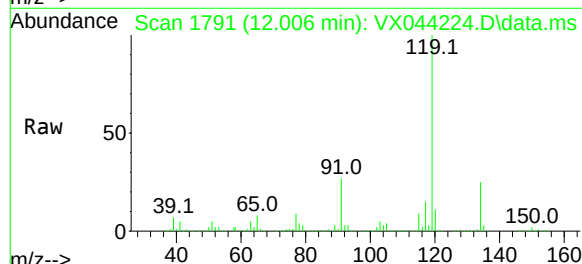
Tgt Ion:119 Resp: 875562

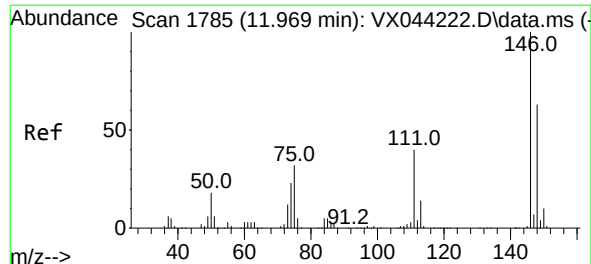
Ion Ratio Lower Upper

119 100

134 26.0 12.8 38.4

91 25.7 13.0 39.0





#87

1,3-Dichlorobenzene

Concen: 150.575 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:146 Resp: 443826

Ion Ratio Lower Upper

146 100

111 42.1 21.4 64.2

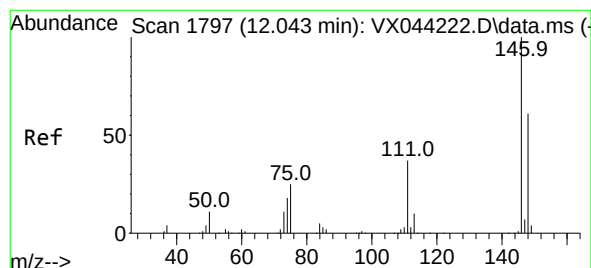
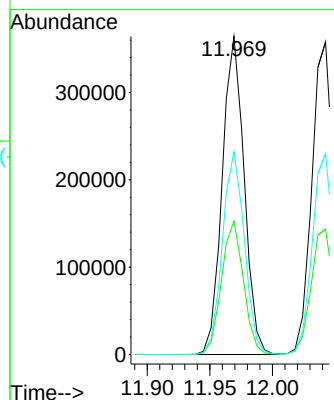
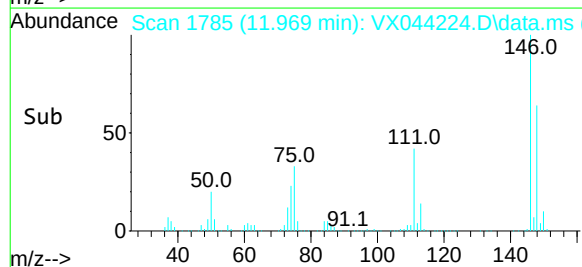
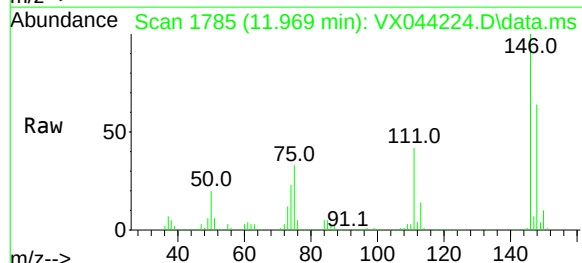
148 64.0 31.7 95.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#88

1,4-Dichlorobenzene

Concen: 146.058 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

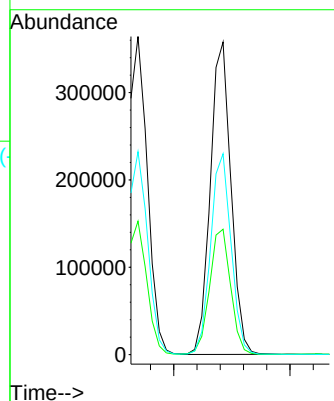
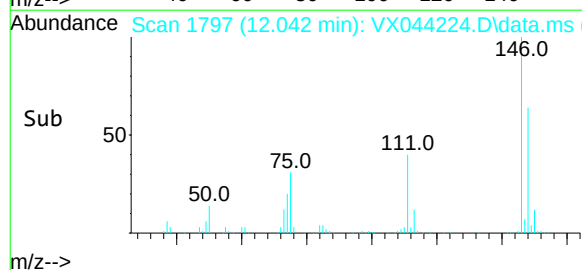
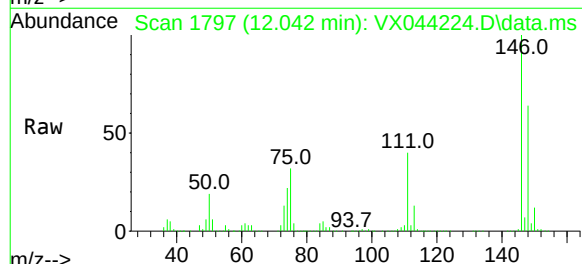
Tgt Ion:146 Resp: 442556

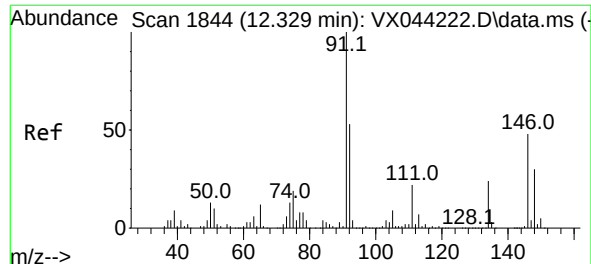
Ion Ratio Lower Upper

146 100

111 40.8 21.0 63.0

148 63.7 32.3 96.8





#89

n-Butylbenzene

Concen: 166.836 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 808399

Ion Ratio Lower Upper

91 100

92 53.3 26.6 79.7

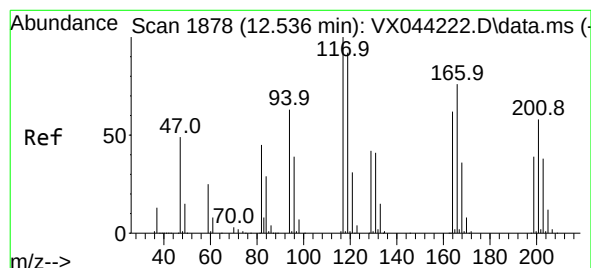
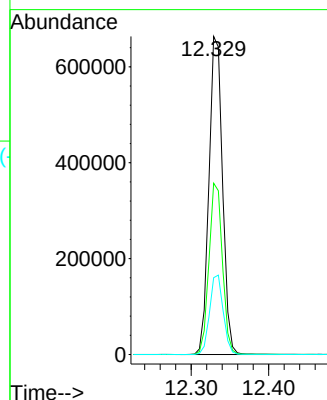
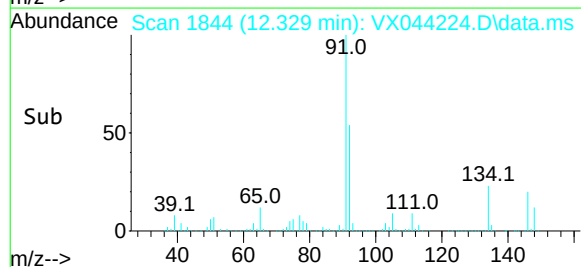
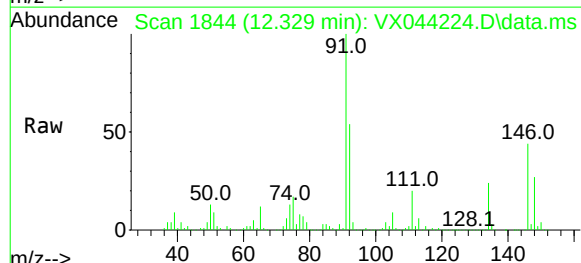
134 25.0 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#90

Hexachloroethane

Concen: 183.942 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX044224.D

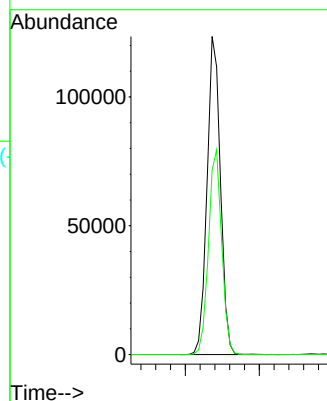
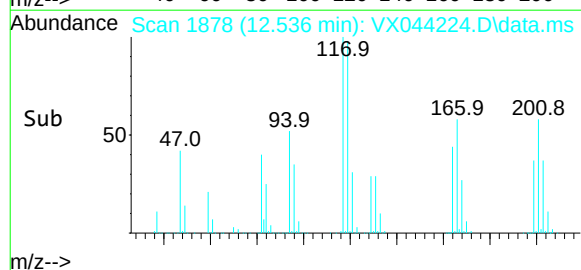
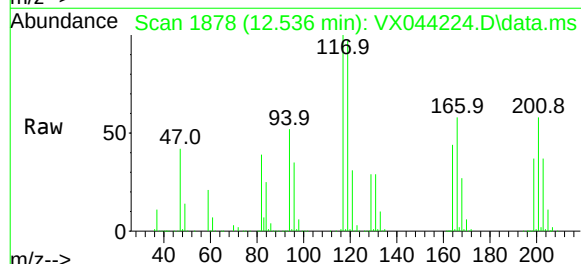
Acq: 11 Dec 2024 13:00

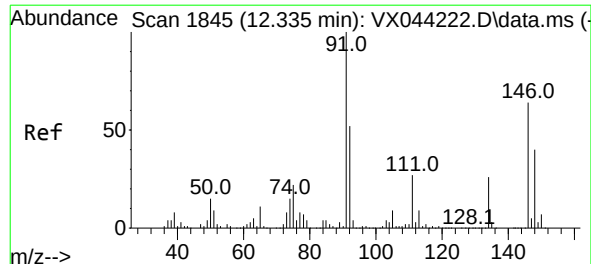
Tgt Ion:117 Resp: 154726

Ion Ratio Lower Upper

117 100

201 63.5 31.4 94.2





#91

1,2-Dichlorobenzene

Concen: 146.357 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:146 Resp: 447931

Ion Ratio Lower Upper

146 100

111 43.7 21.4 64.3

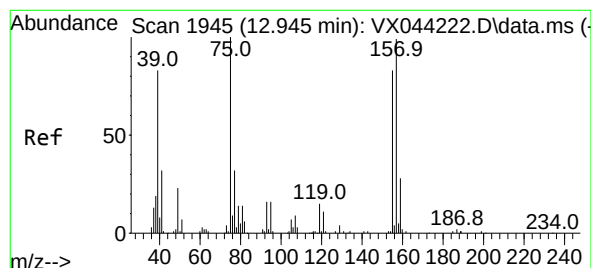
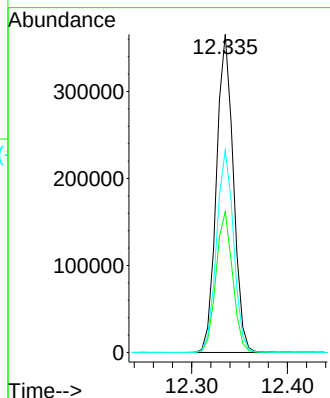
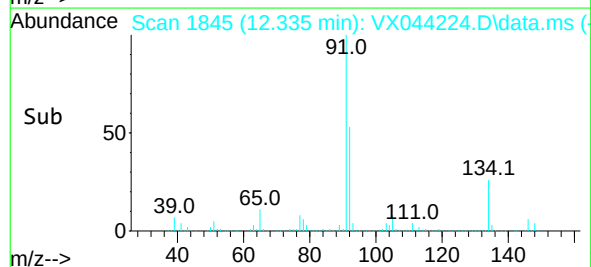
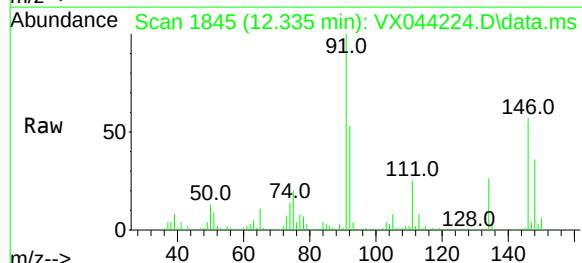
148 64.2 31.6 95.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 178.106 ug/l

RT: 12.945 min Scan# 1945

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

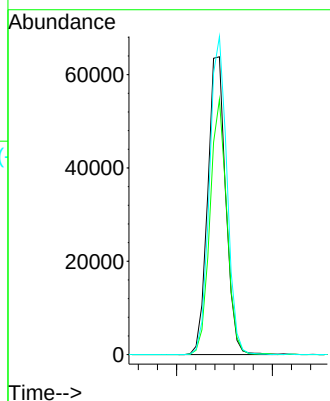
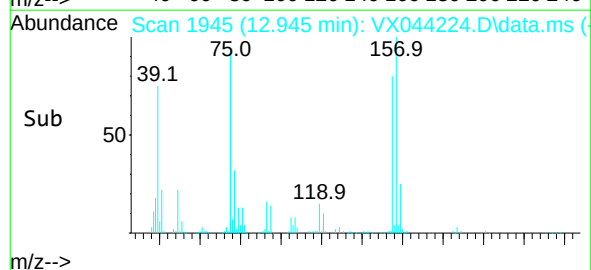
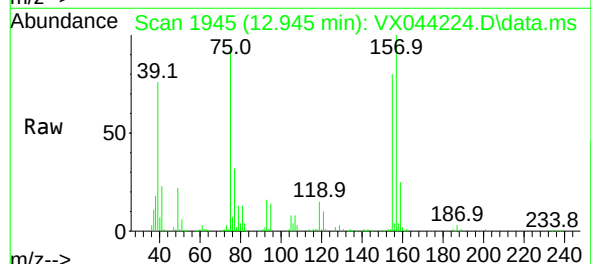
Tgt Ion: 75 Resp: 83565

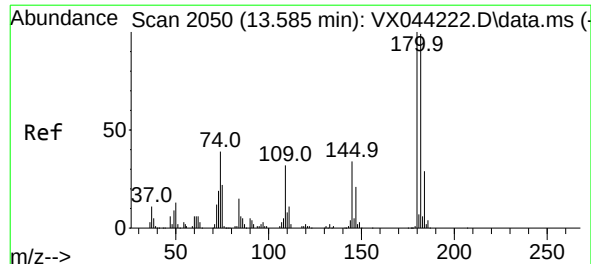
Ion Ratio Lower Upper

75 100

155 79.8 38.1 114.3

157 103.3 47.2 141.6





#93

1,2,4-Trichlorobenzene

Concen: 171.952 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:180 Resp: 288519

Ion Ratio Lower Upper

180 100

182 93.3 48.0 144.2

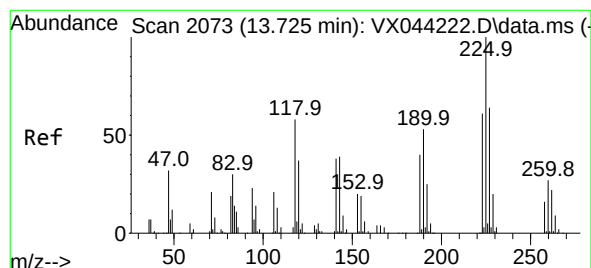
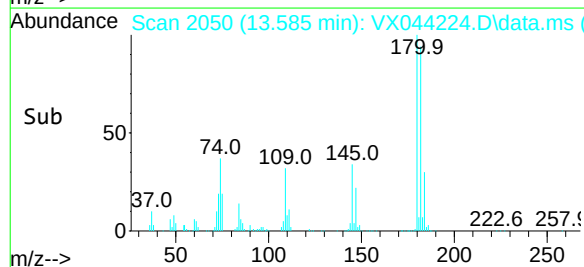
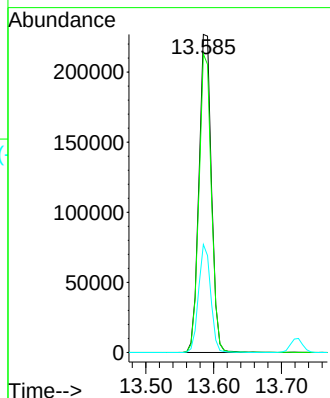
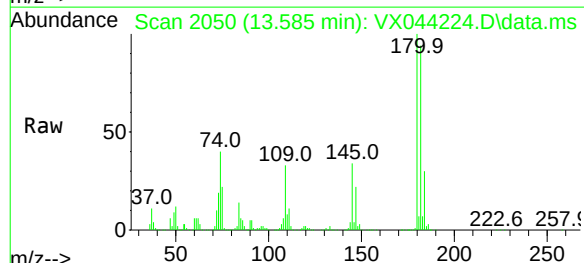
145 33.0 16.6 49.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#94

Hexachlorobutadiene

Concen: 154.036 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

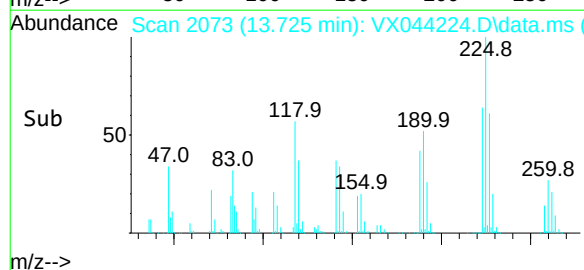
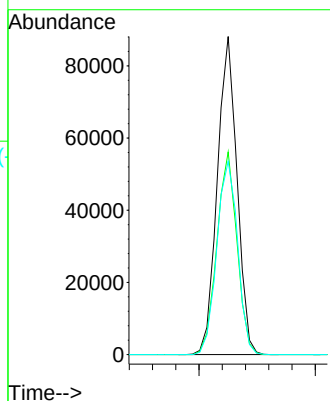
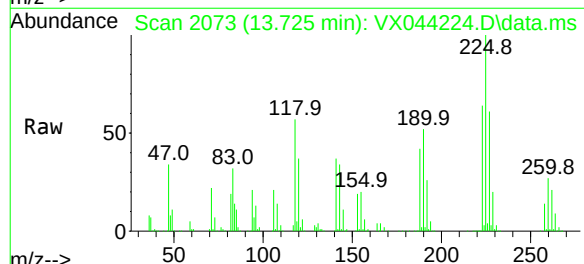
Tgt Ion:225 Resp: 103961

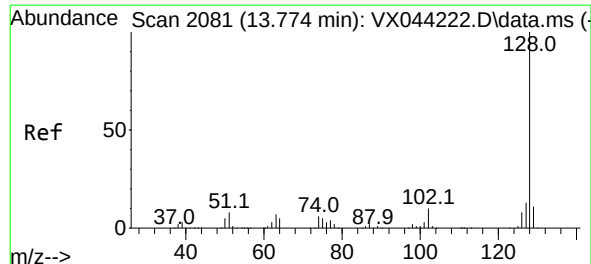
Ion Ratio Lower Upper

225 100

223 64.7 30.8 92.4

227 64.0 32.1 96.3





#95

Naphthalene

Concen: 167.187 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:128 Resp: 1094997

Ion Ratio Lower Upper

128 100

127 12.8 10.5 15.7

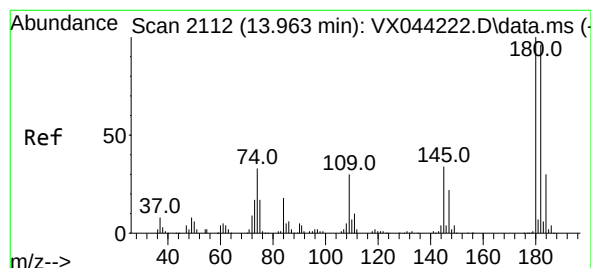
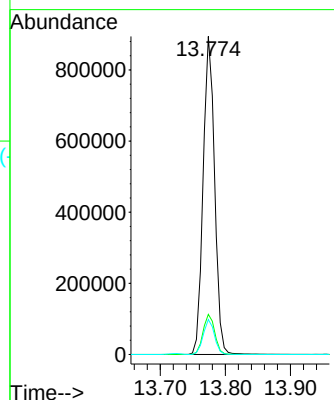
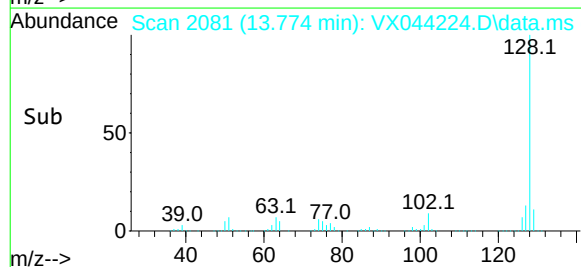
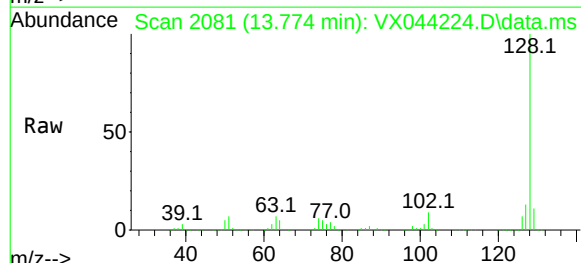
129 10.8 9.0 13.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#96

1,2,3-Trichlorobenzene

Concen: 165.064 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

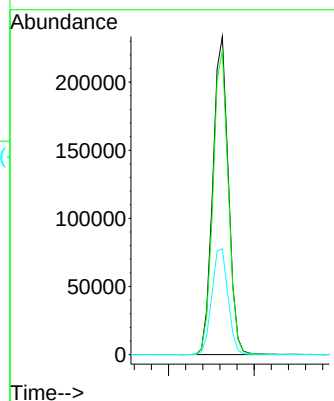
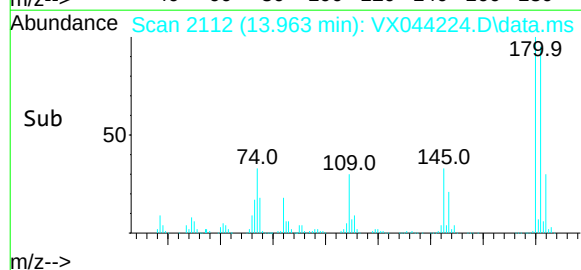
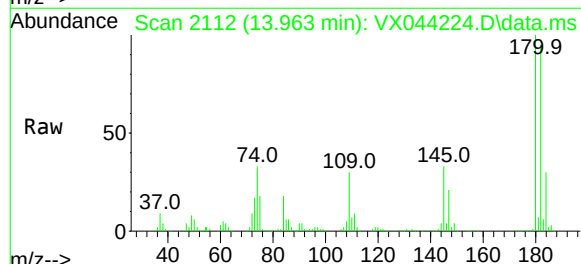
Tgt Ion:180 Resp: 293760

Ion Ratio Lower Upper

180 100

182 94.5 48.0 144.0

145 34.9 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	134203	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	237295	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	210572	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	99879	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.952	65	107407	45.646	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	91.300%
35) Dibromofluoromethane	5.379	113	77619	47.228	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.460%
50) Toluene-d8	8.647	98	271508	48.968	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.940%
62) 4-Bromofluorobenzene	11.079	95	97061	50.098	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	100.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	104566	50.390	ug/l	98
3) Chloromethane	1.294	50	92633	46.681	ug/l	98
4) Vinyl Chloride	1.374	62	97702	47.260	ug/l	97
5) Bromomethane	1.593	94	67357	45.926	ug/l	99
6) Chloroethane	1.666	64	62821	48.801	ug/l	100
7) Trichlorofluoromethane	1.867	101	203619	50.311	ug/l	99
8) Diethyl Ether	2.136	74	63075	45.658	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.312	101	82498	50.374	ug/l	99
10) Methyl Iodide	2.441	142	100043	46.349	ug/l	100
11) Tert butyl alcohol	3.001	59	77494	233.680	ug/l	100
12) 1,1-Dichloroethene	2.306	96	74177	49.311	ug/l	99
13) Acrolein	2.233	56	111927	233.162	ug/l	97
14) Allyl chloride	2.654	41	124635	49.744	ug/l	100
15) Acrylonitrile	3.068	53	221037	240.620	ug/l	100
16) Acetone	2.386	43	260267	271.312	ug/l	98
17) Carbon Disulfide	2.501	76	149824	52.397	ug/l	98
18) Methyl Acetate	2.709	43	115569	46.725	ug/l	93
19) Methyl tert-butyl Ether	3.117	73	281413	47.940	ug/l	99
20) Methylene Chloride	2.782	84	83188	46.170	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	77471	48.459	ug/l	98
22) Diisopropyl ether	3.763	45	264732	46.922	ug/l	98
23) Vinyl Acetate	3.721	43	1185779	258.510	ug/l	99
24) 1,1-Dichloroethane	3.605	63	151134	48.056	ug/l	98
25) 2-Butanone	4.562	43	346052	253.747	ug/l	100
26) 2,2-Dichloropropane	4.465	77	140196	54.872	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	94838	46.709	ug/l	99
28) Bromochloromethane	4.891	49	69139	44.832	ug/l	99
29) Tetrahydrofuran	5.007	42	208362	238.031	ug/l	98
30) Chloroform	5.092	83	163372	46.235	ug/l	94
31) Cyclohexane	5.458	56	125567	49.443	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	146348	49.895	ug/l	99
36) 1,1-Dichloropropene	5.684	75	106889	50.314	ug/l	98
37) Ethyl Acetate	4.721	43	137017	52.176	ug/l	99
38) Carbon Tetrachloride	5.672	117	118390	51.763	ug/l	97
39) Methylcyclohexane	7.373	83	139077	54.761	ug/l	99
40) Benzene	6.031	78	316391	49.052	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	68251	48.945	ug/l	98
42) 1,2-Dichloroethane	6.086	62	132744	49.960	ug/l	100
43) Isopropyl Acetate	6.342	43	211889	51.624	ug/l	100
44) Trichloroethene	7.123	130	80008	49.741	ug/l	98
45) 1,2-Dichloropropane	7.427	63	78321	47.528	ug/l	98
46) Dibromomethane	7.574	93	65491	51.227	ug/l	99
47) Bromodichloromethane	7.818	83	116783	52.893	ug/l	99
48) Methyl methacrylate	7.690	41	101318	50.852	ug/l	98
49) 1,4-Dioxane	7.665	88	30522m	923.966	ug/l	
51) 4-Methyl-2-Pentanone	8.574	43	673069	255.038	ug/l	99
52) Toluene	8.714	92	199281	49.199	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	120696	50.864	ug/l	95
54) cis-1,3-Dichloropropene	8.366	75	128875	53.607	ug/l	96
55) 1,1,2-Trichloroethane	9.153	97	81362	50.562	ug/l	96
56) Ethyl methacrylate	9.116	69	134357	52.890	ug/l	98
57) 1,3-Dichloropropane	9.305	76	137705	49.165	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	332599	259.586	ug/l	100
59) 2-Hexanone	9.433	43	519476	271.943	ug/l	99
60) Dibromochloromethane	9.518	129	83515	49.073	ug/l	99
61) 1,2-Dibromoethane	9.610	107	85024	51.909	ug/l	97
64) Tetrachloroethene	9.269	164	66669	47.702	ug/l	98
65) Chlorobenzene	10.079	112	217180	48.133	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	74531	51.396	ug/l	100
67) Ethyl Benzene	10.189	91	385605	49.461	ug/l	99
68) m/p-Xylenes	10.299	106	285774	99.896	ug/l	99
69) o-Xylene	10.640	106	144001	49.750	ug/l	98
70) Styrene	10.652	104	239508	51.617	ug/l	98
71) Bromoform	10.799	173	50972	50.269	ug/l #	99
73) Isopropylbenzene	10.963	105	374769	49.014	ug/l	99
74) N-amyl acetate	10.841	43	183763	52.003	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	126615	47.676	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	103796m	46.544	ug/l	
77) Bromobenzene	11.195	156	87767	47.335	ug/l	99
78) n-propylbenzene	11.305	91	429443	50.816	ug/l	99
79) 2-Chlorotoluene	11.366	91	259860	47.546	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	313435	49.431	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	37038	47.861	ug/l	97
82) 4-Chlorotoluene	11.451	91	297641	49.178	ug/l	100
83) tert-Butylbenzene	11.713	119	309463	49.384	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	313433	50.333	ug/l	100
85) sec-Butylbenzene	11.890	105	381109	50.097	ug/l	100
86) p-Isopropyltoluene	12.006	119	320882	50.678	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	159094	49.122	ug/l	98
88) 1,4-Dichlorobenzene	12.042	146	160742	48.280	ug/l	99
89) n-Butylbenzene	12.329	91	283284	53.207	ug/l	99
90) Hexachloroethane	12.536	117	48734	52.727	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	160039	47.589	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	26738	51.864	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	99449	53.940	ug/l	98
94) Hexachlorobutadiene	13.725	225	37651	50.770	ug/l	98
95) Naphthalene	13.774	128	365781	50.827	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	100209	51.244	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

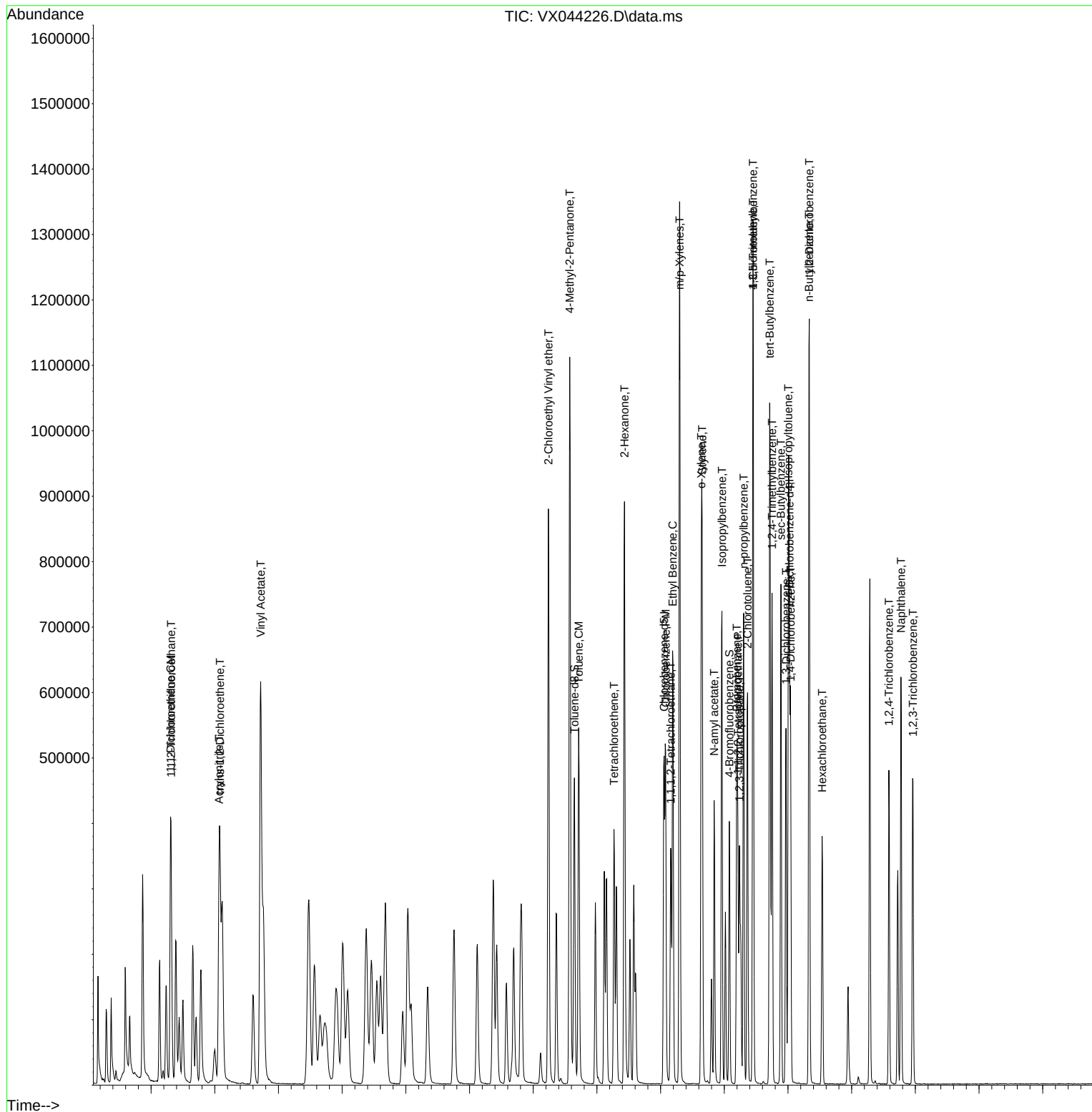
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On    : 11 Dec 2024  13:51
Operator  : JC/MD
Sample    : VSTDICV050
Misc      : 5.0mL/MSVOA_X/WATER
ALS Vial  : 10   Sample Multiplier: 1
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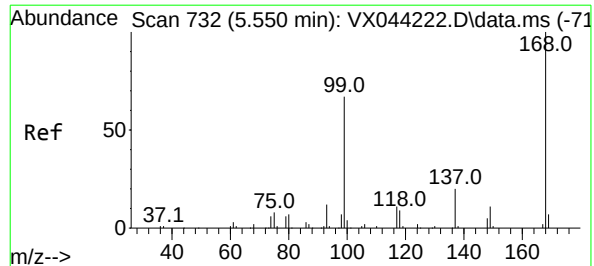
Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration





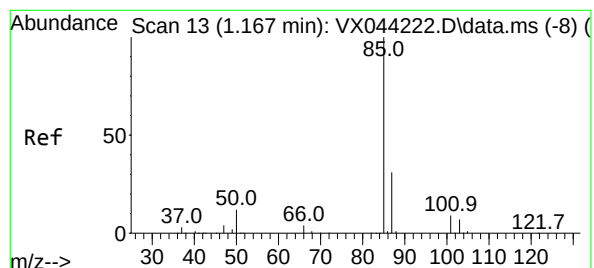
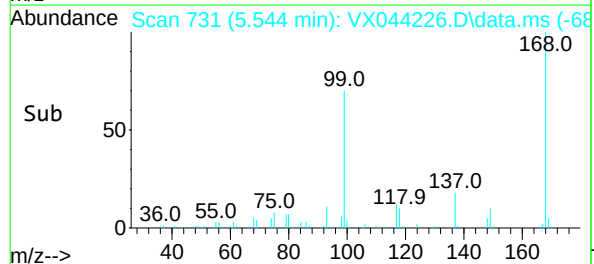
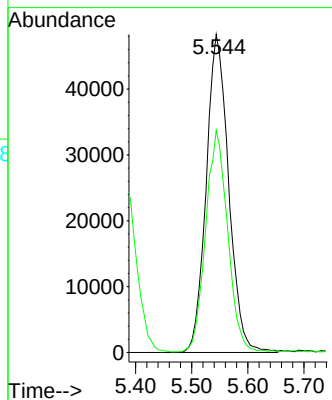
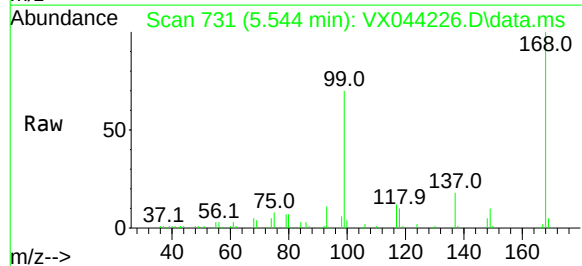
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Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVWX121124

Tgt Ion: 168 Resp: 134203
Ion Ratio Lower Upper
168 100
99 69.7 53.4 80.0

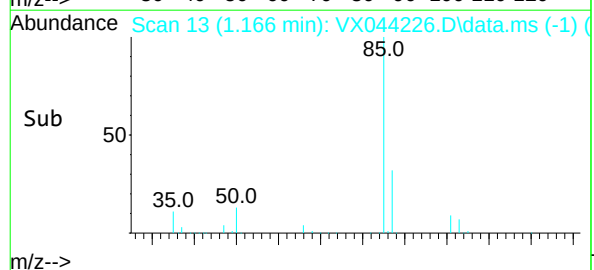
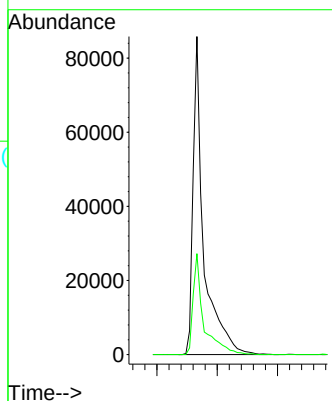
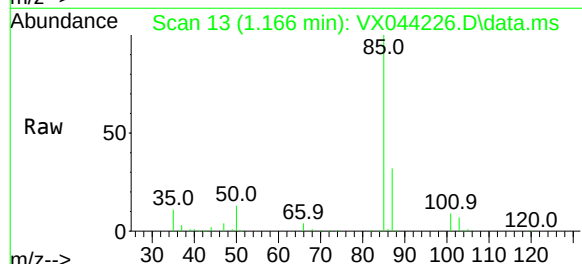
Manual Integrations
APPROVED

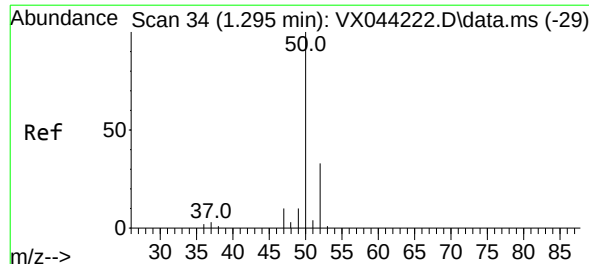
Reviewed By : John Carlone 12/12/2024
Supervised By : Mahesh Dadoda 12/12/2024



#2
Dichlorodifluoromethane
Concen: 50.390 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 85 Resp: 104566
Ion Ratio Lower Upper
85 100
87 31.7 15.4 46.4





#3

Chloromethane

Concen: 46.681 ug/l

RT: 1.294 min Scan# 34

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion: 50 Resp: 92633

Ion Ratio Lower Upper

50 100

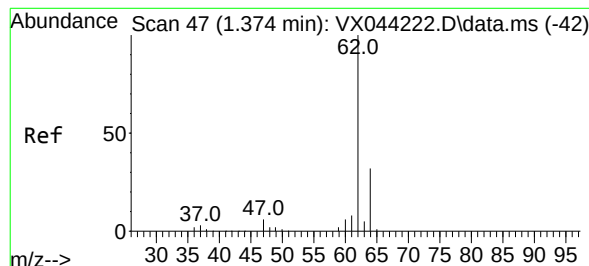
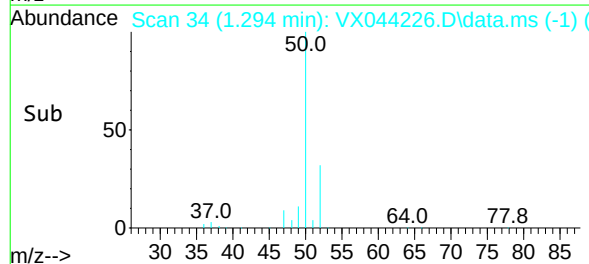
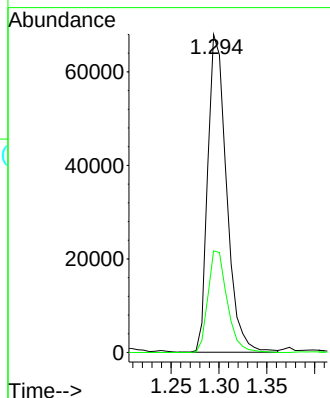
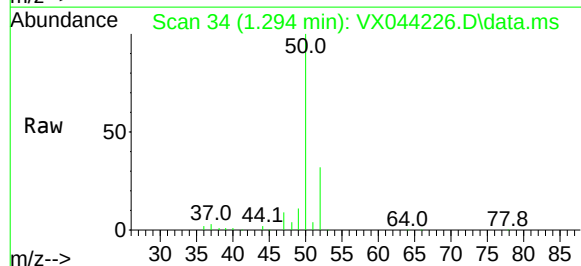
52 32.0 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#4

Vinyl Chloride

Concen: 47.260 ug/l

RT: 1.374 min Scan# 47

Delta R.T. -0.000 min

Lab File: VX044226.D

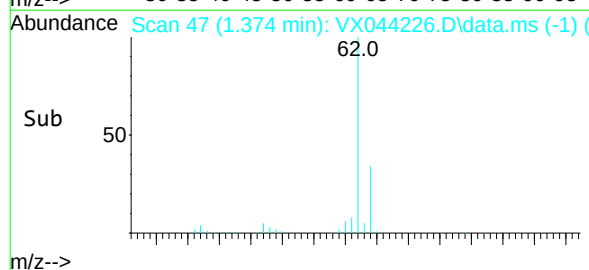
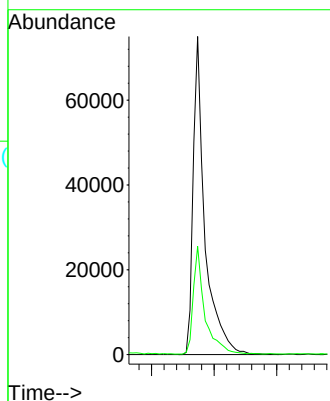
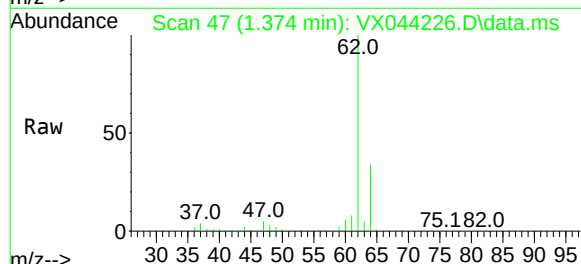
Acq: 11 Dec 2024 13:51

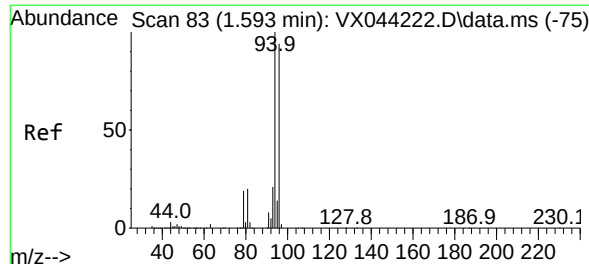
Tgt Ion: 62 Resp: 97702

Ion Ratio Lower Upper

62 100

64 33.9 25.7 38.5





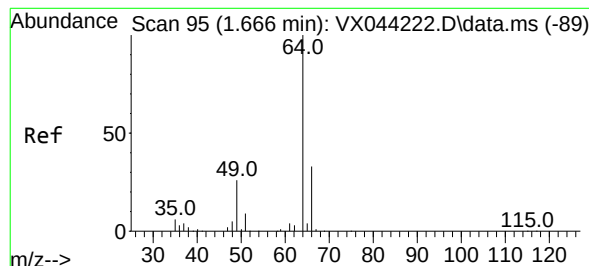
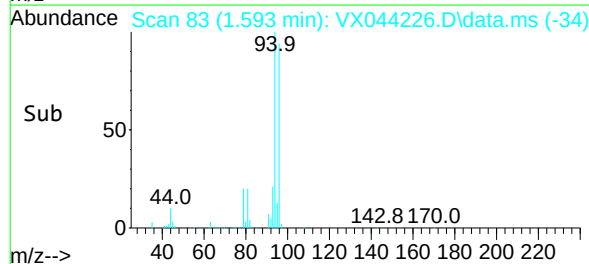
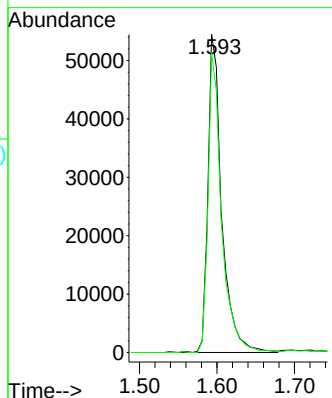
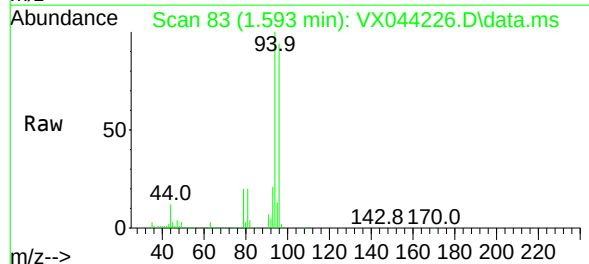
#5
Bromomethane
Concen: 45.926 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVX121124

Tgt Ion: 94 Resp: 67357
Ion Ratio Lower Upper
94 100
96 94.2 74.9 112.3

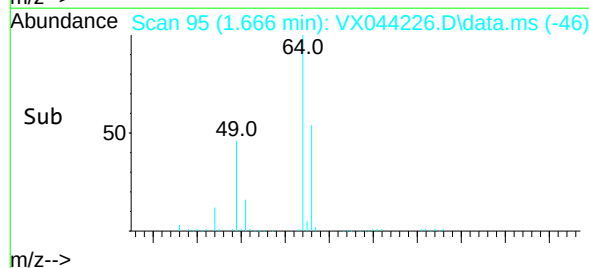
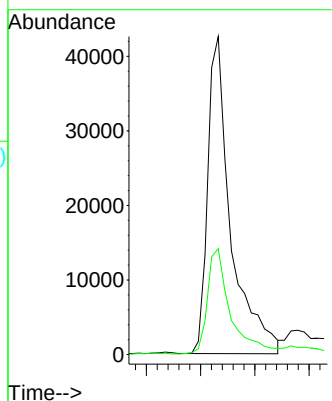
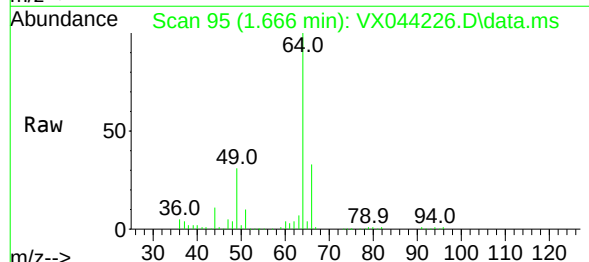
Manual Integrations
APPROVED

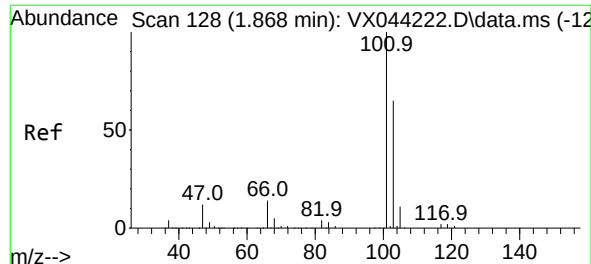
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#6
Chloroethane
Concen: 48.801 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 64 Resp: 62821
Ion Ratio Lower Upper
64 100
66 33.2 26.6 39.8





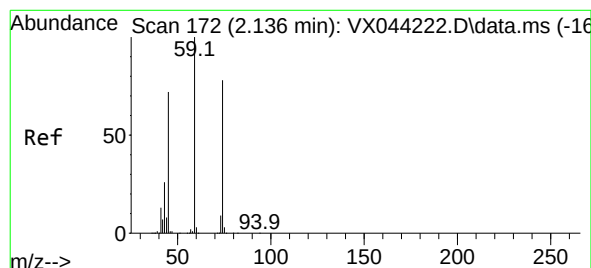
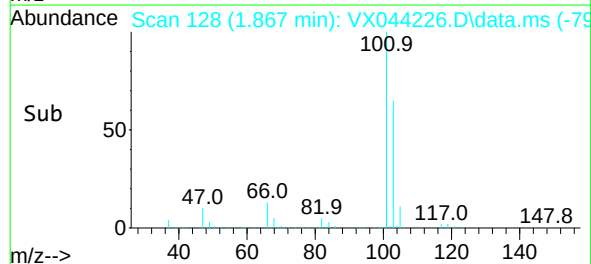
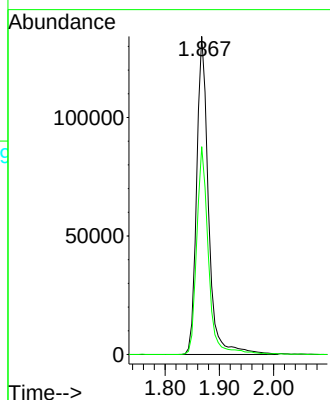
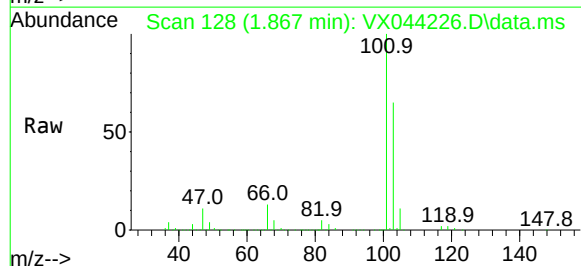
#7
Trichlorofluoromethane
Concen: 50.311 ug/l
RT: 1.867 min Scan# 128
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVX121124

Tgt Ion:101 Resp: 203619
Ion Ratio Lower Upper
101 100
103 65.3 51.8 77.8

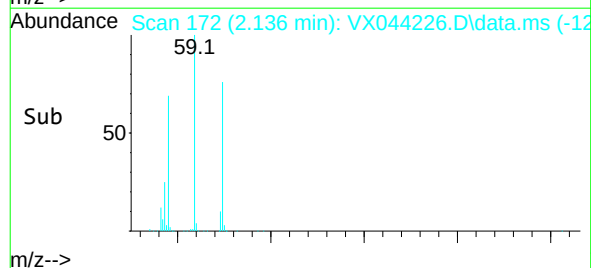
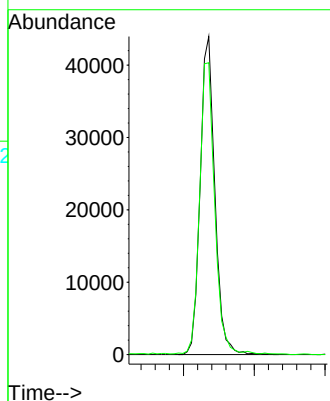
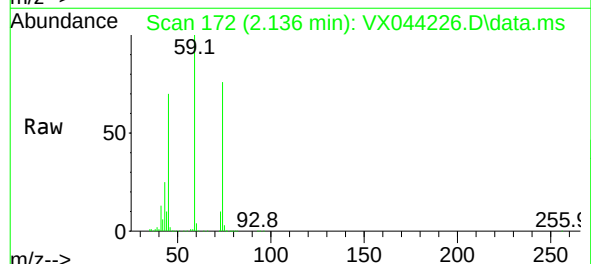
Manual Integrations
APPROVED

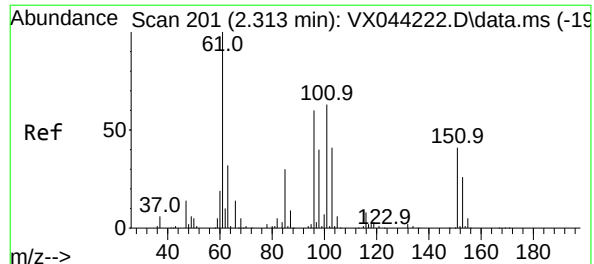
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#8
Diethyl Ether
Concen: 45.658 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 74 Resp: 63075
Ion Ratio Lower Upper
74 100
45 94.4 48.4 145.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.374 ug/l

RT: 2.312 min Scan# 201

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

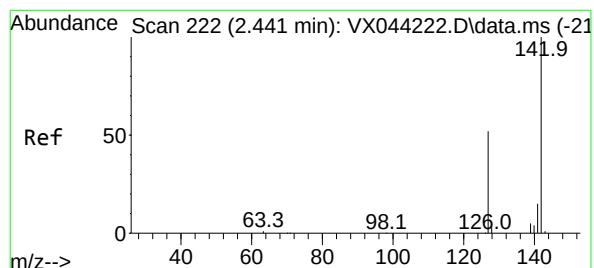
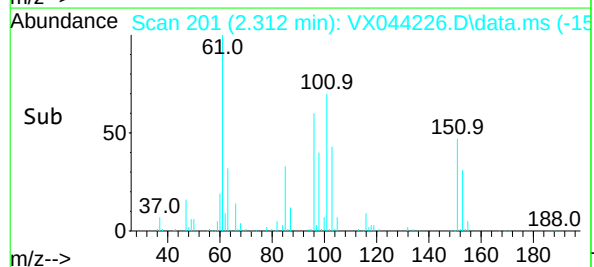
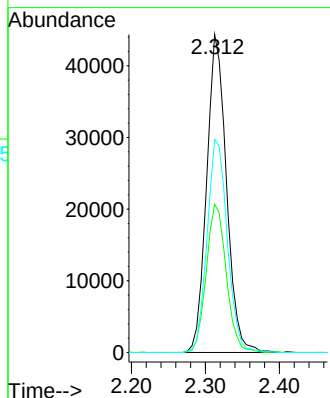
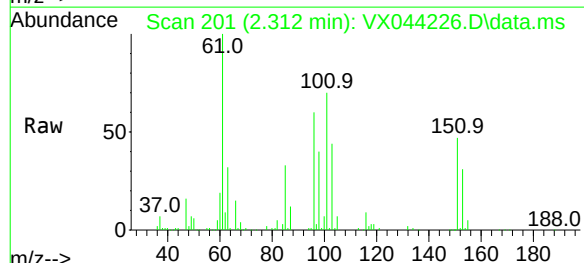
ClientSampleId :

ICVX121124

Tgt Ion:	101	Resp:	82498
Ion Ratio	Lower	Upper	
101	100		
85	47.1	38.5	57.7
151	68.6	55.8	83.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#10

Methyl Iodide

Concen: 46.349 ug/l

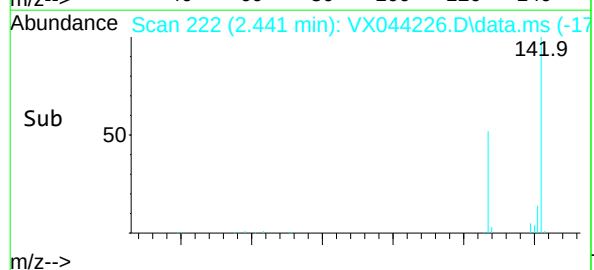
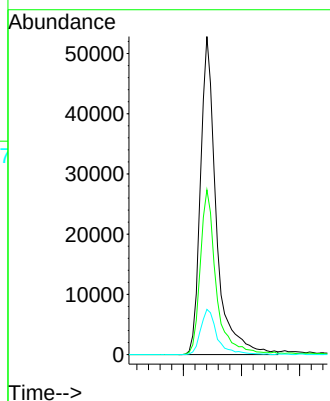
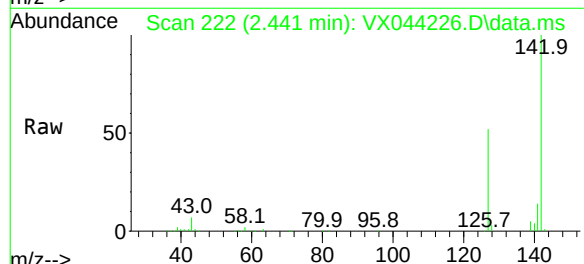
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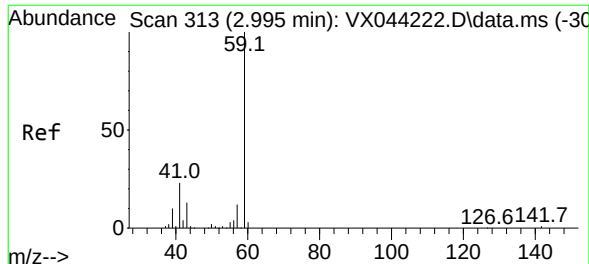
Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Tgt Ion:	142	Resp:	100043
Ion Ratio	Lower	Upper	
142	100		
127	52.3	41.8	62.8
141	14.8	11.5	17.3





#11

Tert butyl alcohol

Concen: 233.680 ug/l

RT: 3.001 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion: 59 Resp: 77494

Ion Ratio Lower Upper

59 100

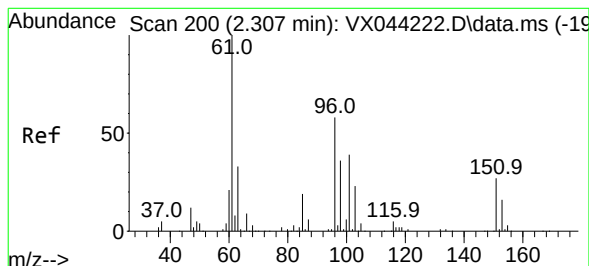
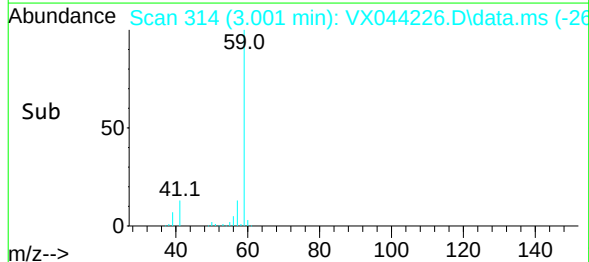
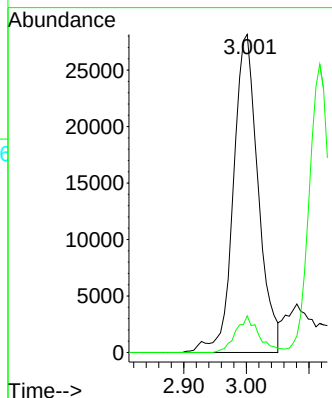
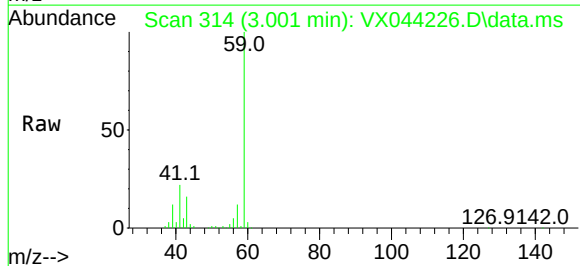
57 10.9 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#12

1,1-Dichloroethene

Concen: 49.311 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

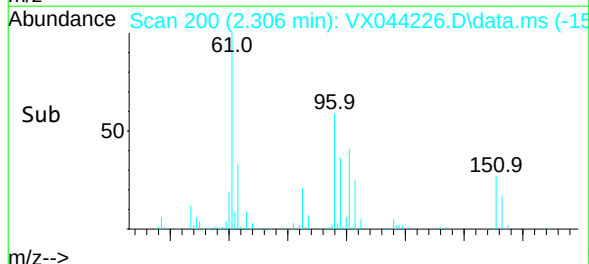
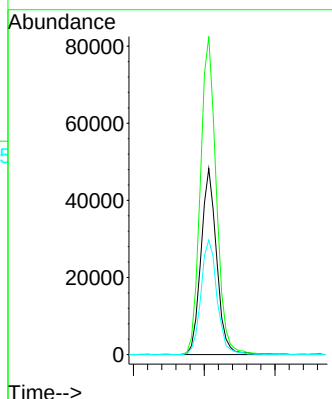
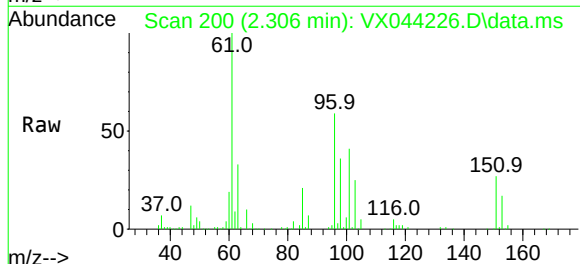
Tgt Ion: 96 Resp: 74177

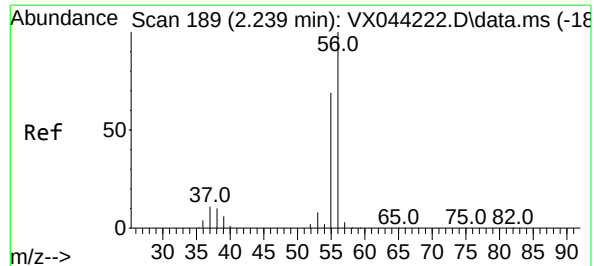
Ion Ratio Lower Upper

96 100

61 170.9 138.0 207.0

98 61.6 50.0 75.0





#13

Acrolein

Concen: 233.162 ug/l

RT: 2.233 min Scan# 18

Delta R.T. -0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion: 56 Resp: 111927

Ion Ratio Lower Upper

56 100

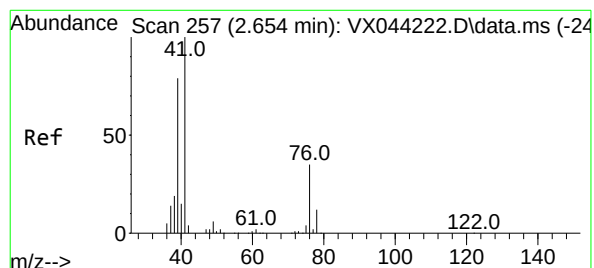
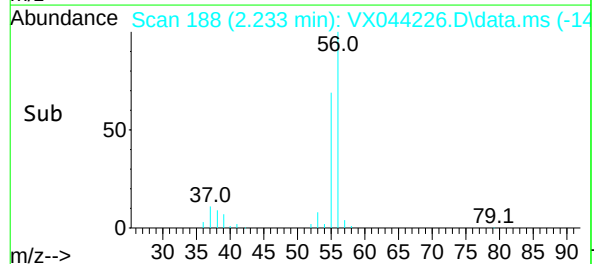
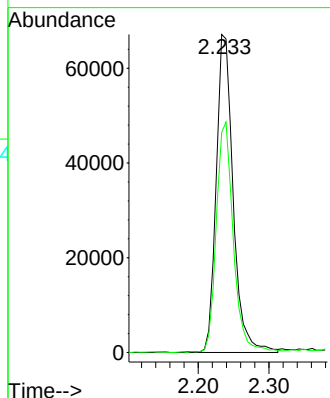
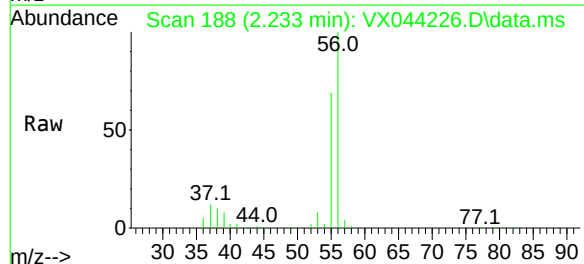
55 72.8 56.6 84.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#14

Allyl chloride

Concen: 49.744 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

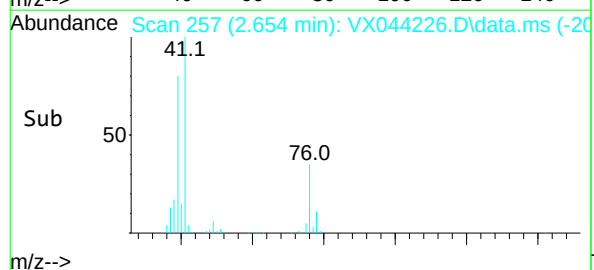
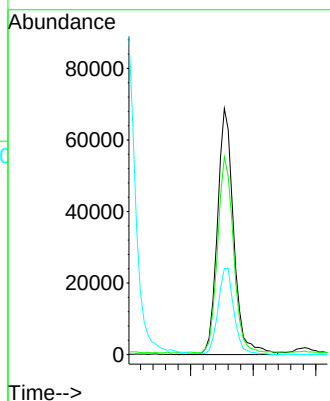
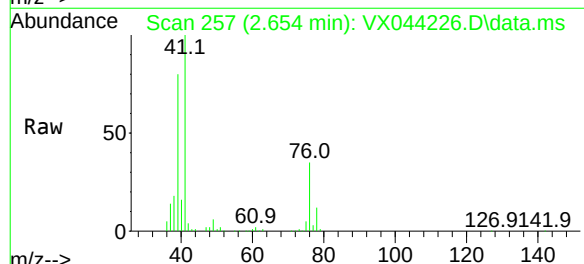
Tgt Ion: 41 Resp: 124635

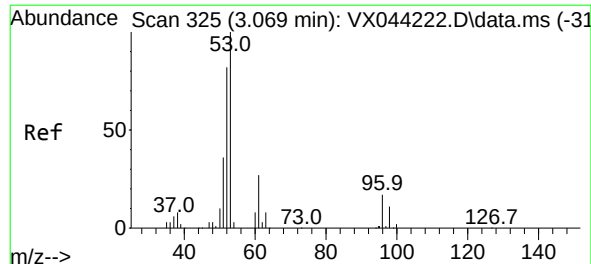
Ion Ratio Lower Upper

41 100

39 77.3 61.9 92.9

76 34.4 27.4 41.2





#15

Acrylonitrile

Concen: 240.620 ug/l

RT: 3.068 min Scan# 32

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

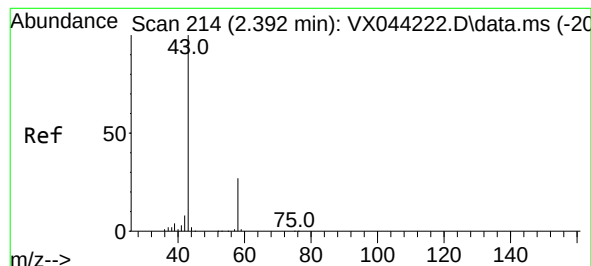
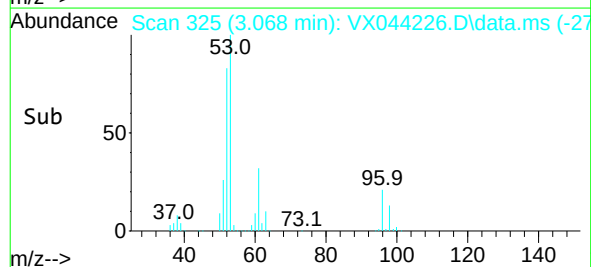
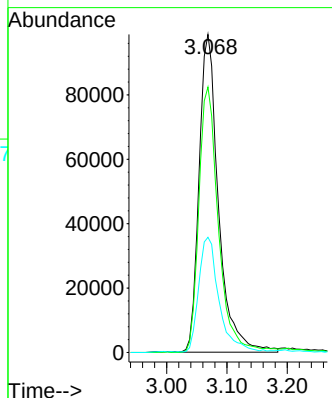
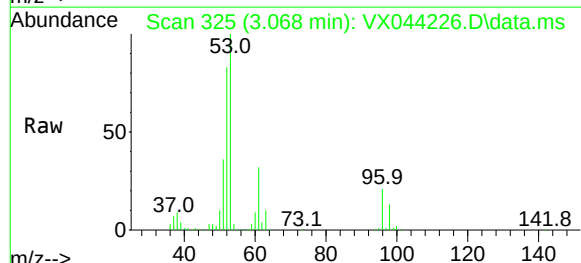
ClientSampleId :

ICVWX121124

Tgt Ion:	53	Resp:	221037
Ion	Ratio	Lower	Upper
53	100		
52	84.3	67.4	101.0
51	37.6	30.3	45.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#16

Acetone

Concen: 271.312 ug/l

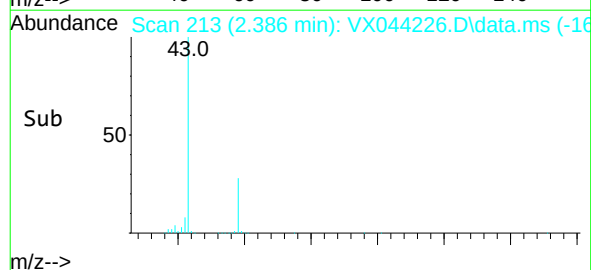
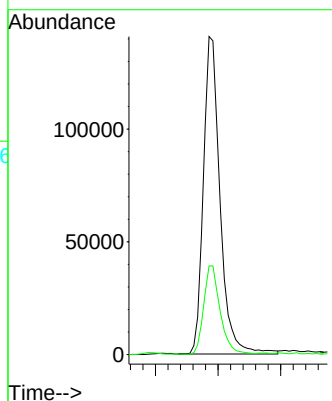
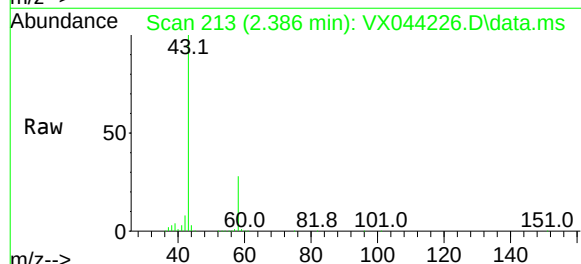
RT: 2.386 min Scan# 213

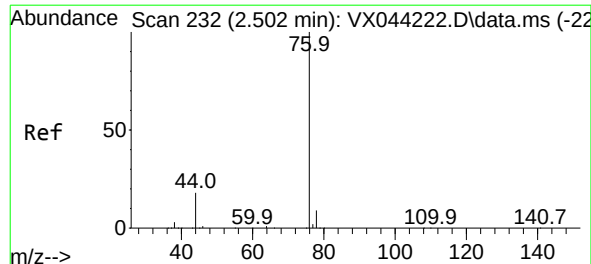
Delta R.T. -0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Tgt Ion:	43	Resp:	260267
Ion	Ratio	Lower	Upper
43	100		
58	27.8	21.6	32.4





#17

Carbon Disulfide

Concen: 52.397 ug/l

RT: 2.501 min Scan# 232

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVVX121124

Tgt Ion: 76 Resp: 149824

Ion Ratio Lower Upper

76 100

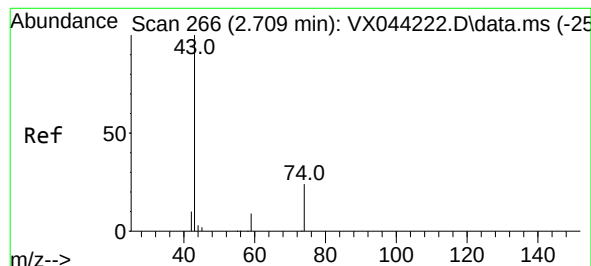
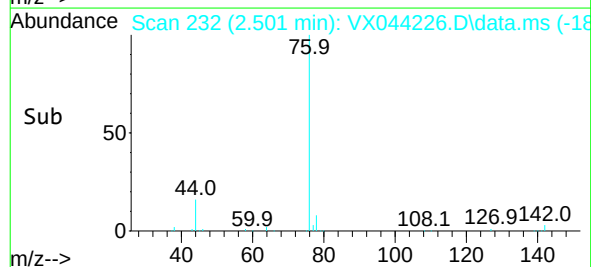
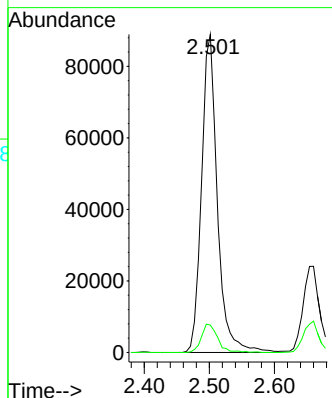
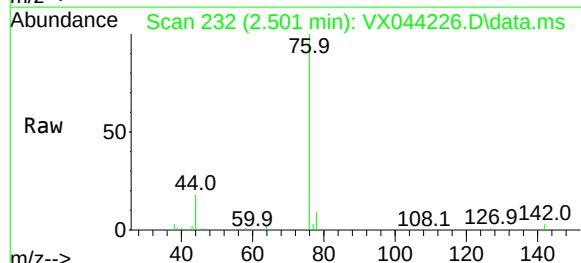
78 8.6 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#18

Methyl Acetate

Concen: 46.725 ug/l

RT: 2.709 min Scan# 266

Delta R.T. -0.000 min

Lab File: VX044226.D

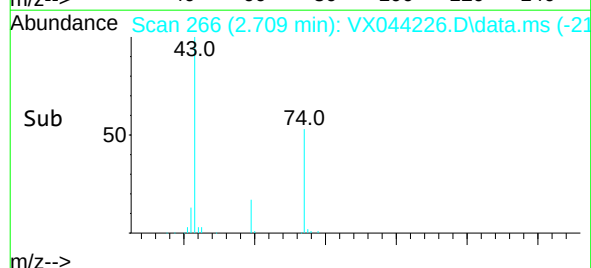
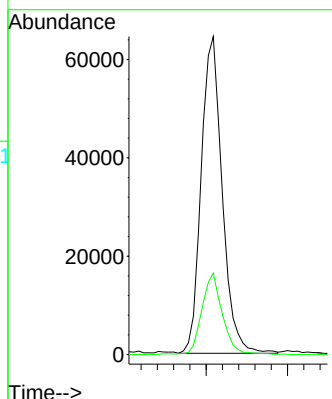
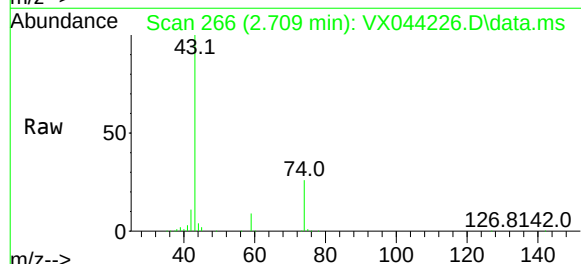
Acq: 11 Dec 2024 13:51

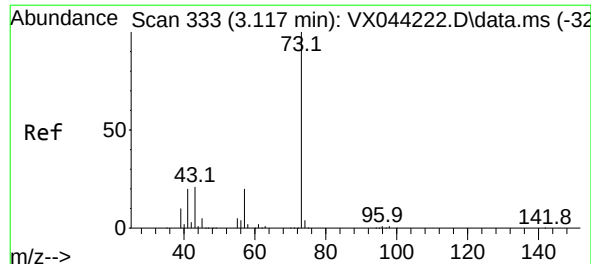
Tgt Ion: 43 Resp: 115569

Ion Ratio Lower Upper

43 100

74 25.3 17.7 26.5





#19

Methyl tert-butyl Ether

Concen: 47.940 ug/l

RT: 3.117 min Scan# 333

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion: 73 Resp: 281413

Ion Ratio Lower Upper

73 100

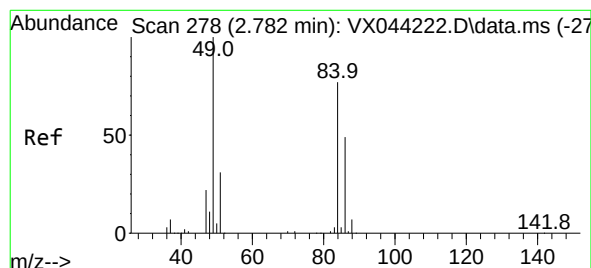
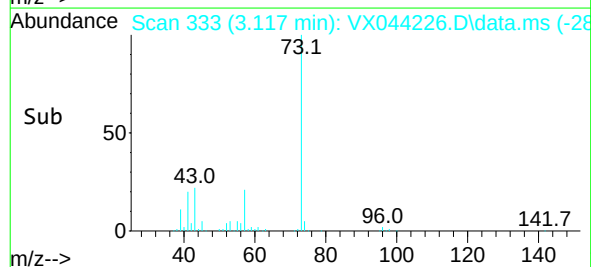
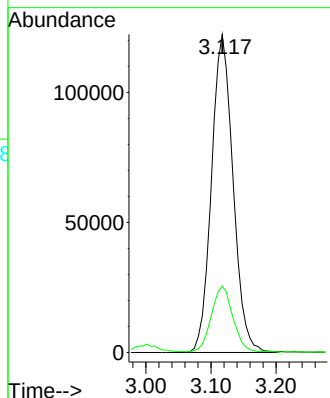
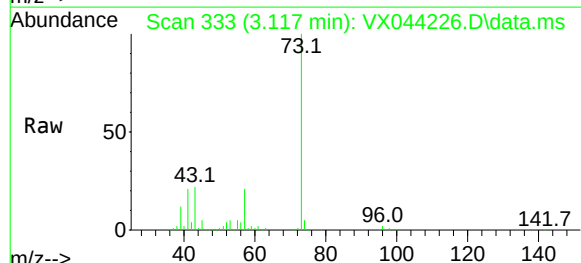
57 20.8 16.2 24.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#20

Methylene Chloride

Concen: 46.170 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Tgt Ion: 84 Resp: 83188

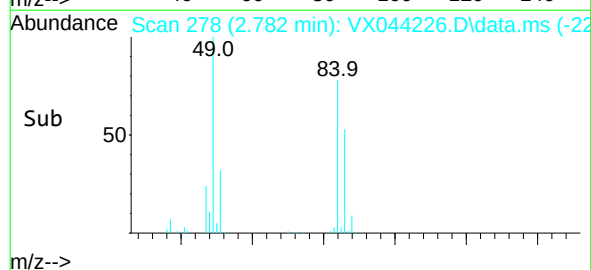
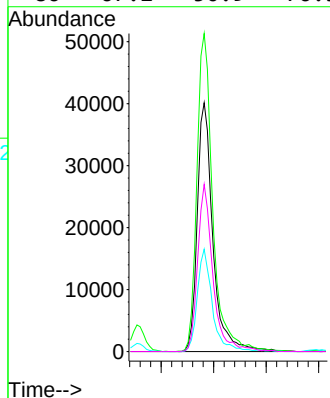
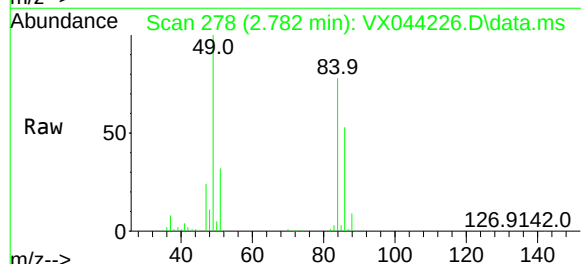
Ion Ratio Lower Upper

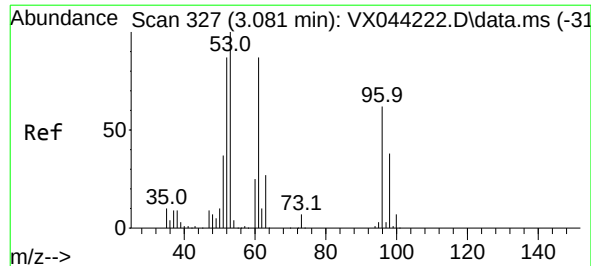
84 100

49 127.6 104.2 156.4

51 41.1 32.2 48.4

86 67.2 50.9 76.3





#21

trans-1,2-Dichloroethene

Concen: 48.459 ug/l

RT: 3.081 min Scan# 327

Delta R.T. -0.000 min

Lab File: VX044226.D

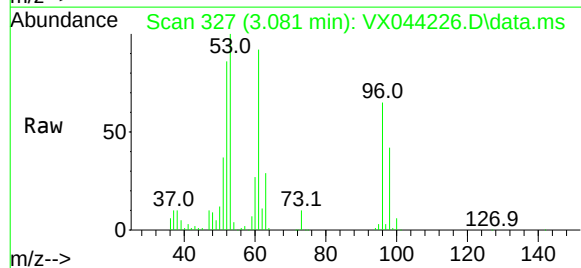
Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

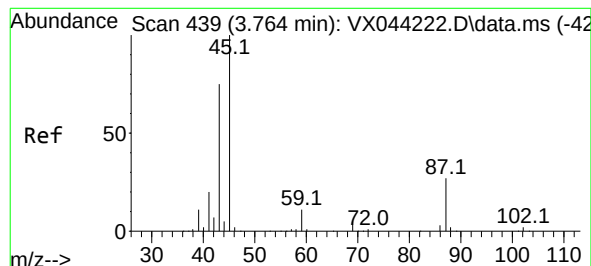
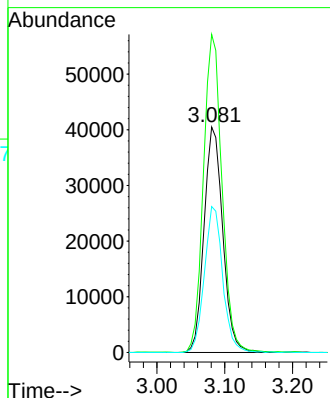
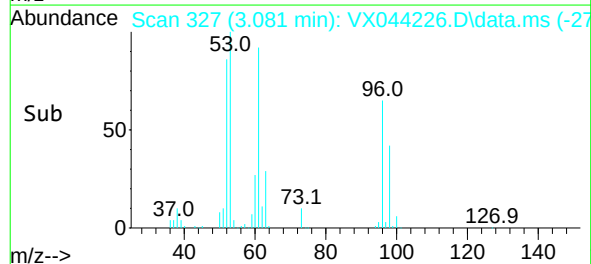
ICVX121124



Tgt Ion:	96	Resp:	77471
Ion	Ratio	Lower	Upper
96	100		
61	141.0	112.0	168.0
98	64.7	48.8	73.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#22

Diisopropyl ether

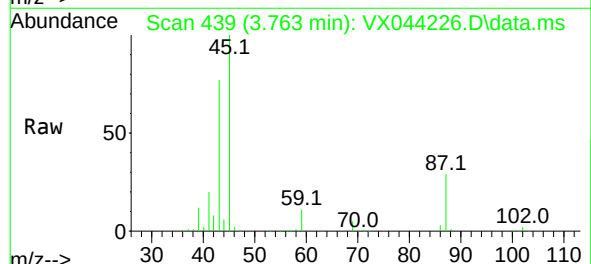
Concen: 46.922 ug/l

RT: 3.763 min Scan# 439

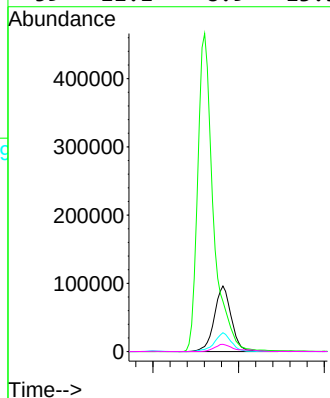
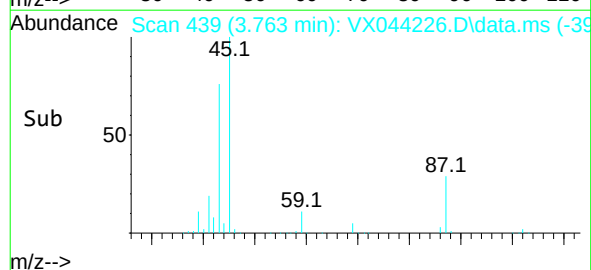
Delta R.T. -0.000 min

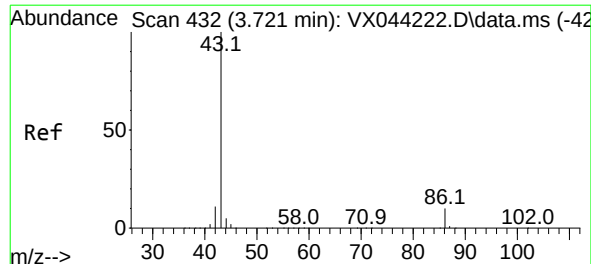
Lab File: VX044226.D

Acq: 11 Dec 2024 13:51



Tgt Ion:	45	Resp:	264732
Ion	Ratio	Lower	Upper
45	100		
43	76.6	60.2	90.2
87	28.8	21.2	31.8
59	11.1	8.9	13.3





#23

Vinyl Acetate

Concen: 258.510 ug/l

RT: 3.721 min Scan# 43

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion: 43 Resp: 1185779

Ion Ratio Lower Upper

43 100

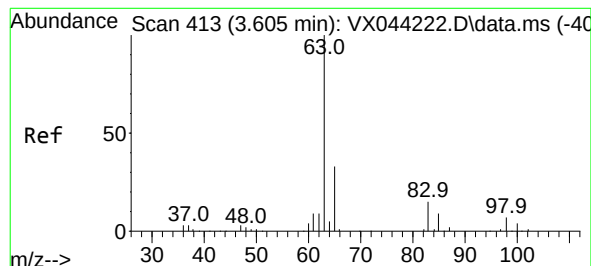
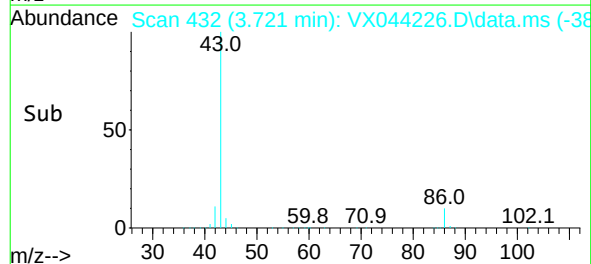
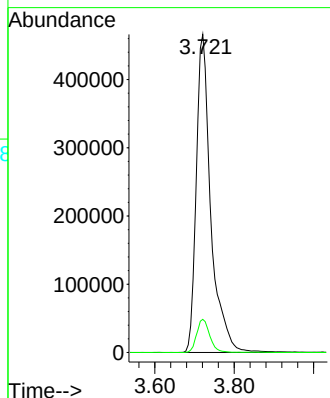
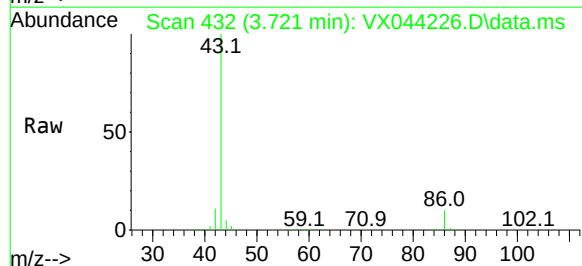
86 10.4 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#24

1,1-Dichloroethane

Concen: 48.056 ug/l

RT: 3.605 min Scan# 413

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

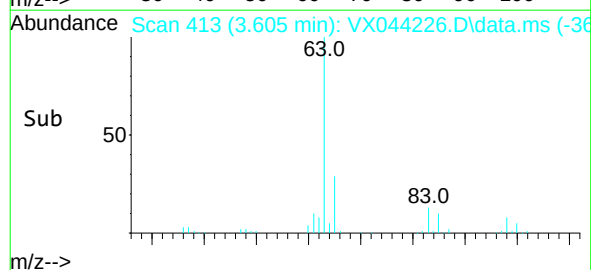
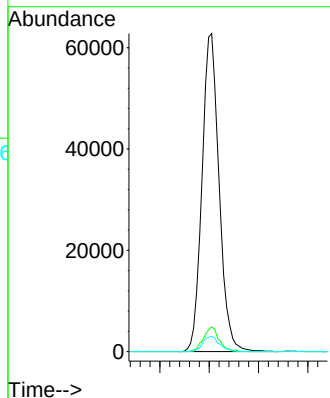
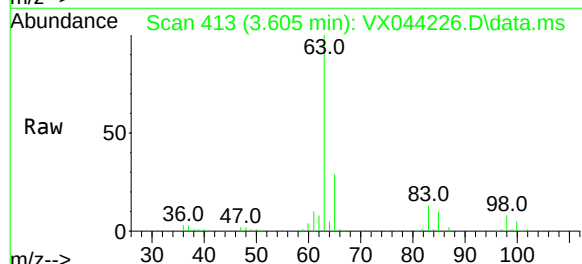
Tgt Ion: 63 Resp: 151134

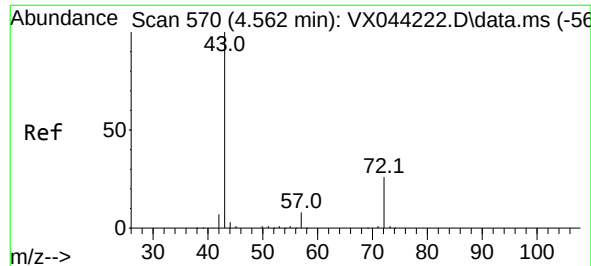
Ion Ratio Lower Upper

63 100

98 7.8 3.6 10.8

100 4.8 2.1 6.3





#25

2-Butanone

Concen: 253.747 ug/l

RT: 4.562 min Scan# 570

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion: 43 Resp: 346052

Ion Ratio Lower Upper

43 100

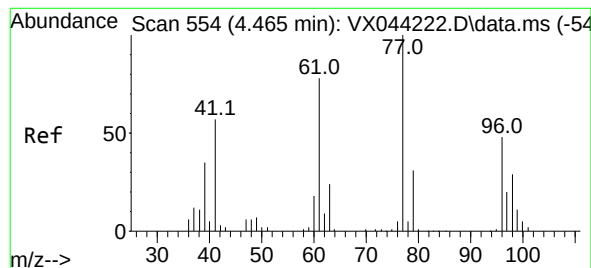
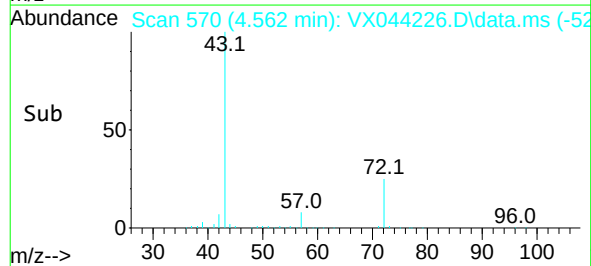
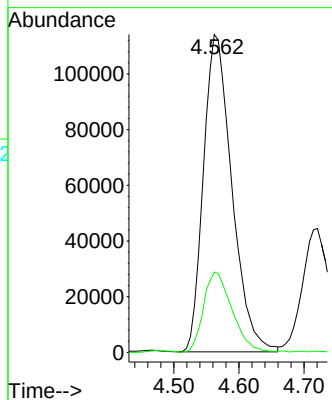
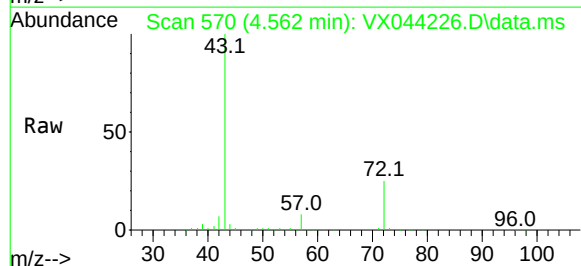
72 25.2 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#26

2,2-Dichloropropane

Concen: 54.872 ug/l

RT: 4.465 min Scan# 554

Delta R.T. -0.000 min

Lab File: VX044226.D

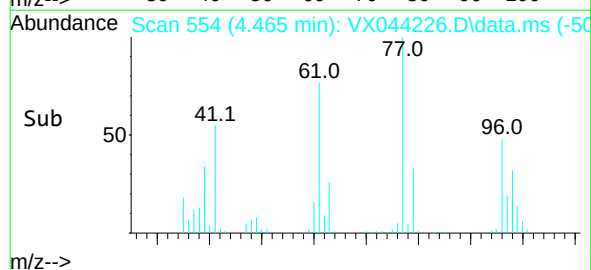
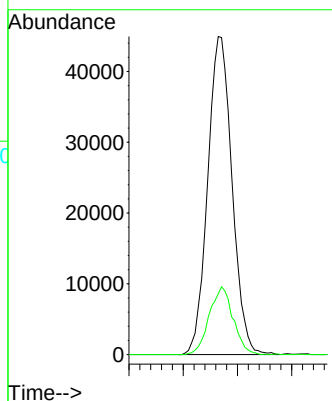
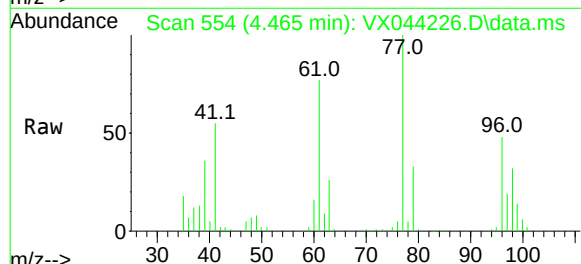
Acq: 11 Dec 2024 13:51

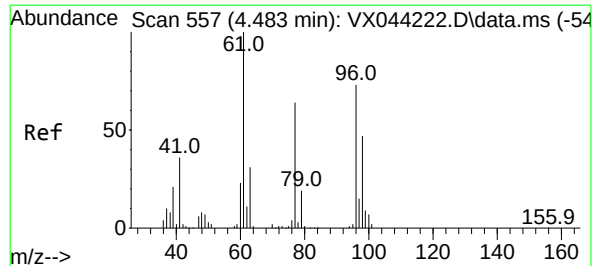
Tgt Ion: 77 Resp: 140196

Ion Ratio Lower Upper

77 100

97 20.8 10.7 32.1





#27

cis-1,2-Dichloroethene

Concen: 46.709 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion: 96 Resp: 94838

Ion Ratio Lower Upper

96 100

61 147.7 0.0 299.0

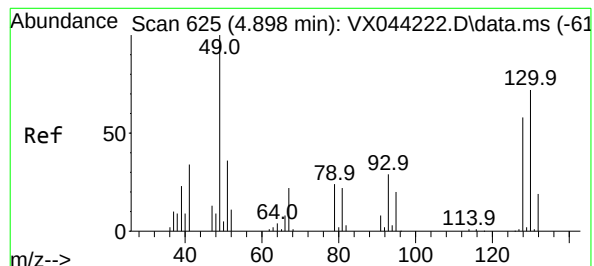
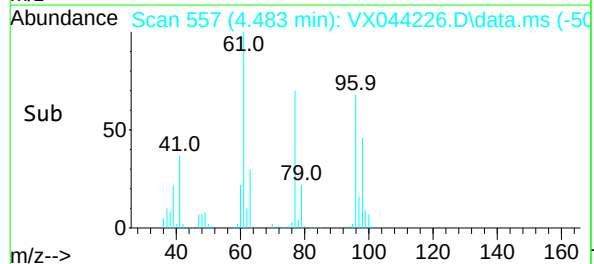
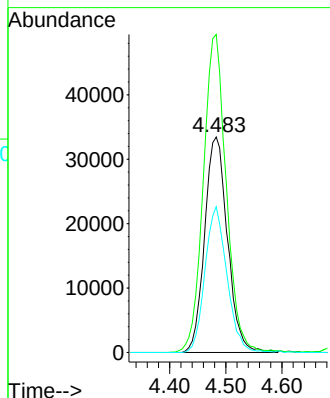
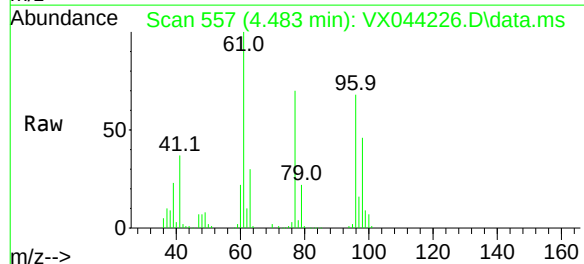
98 64.9 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#28

Bromochloromethane

Concen: 44.832 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

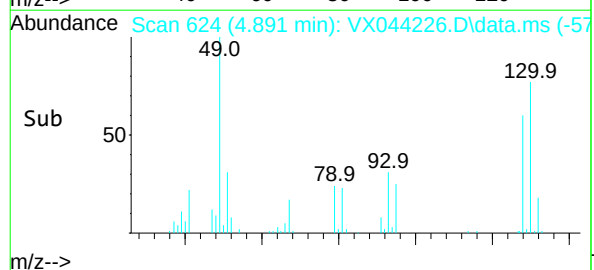
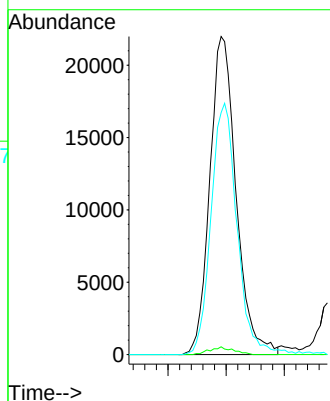
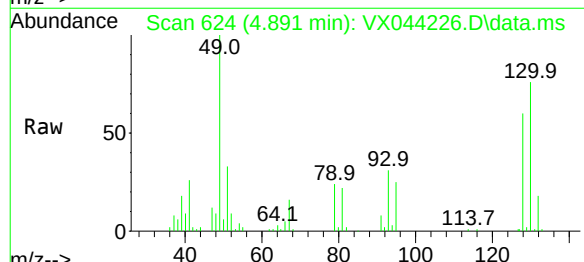
Tgt Ion: 49 Resp: 69139

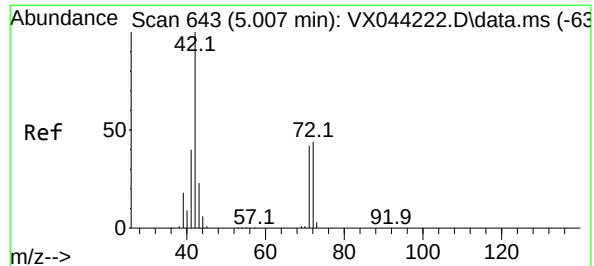
Ion Ratio Lower Upper

49 100

129 2.2 0.0 4.2

130 78.1 62.1 93.1





#29

Tetrahydrofuran

Concen: 238.031 ug/l

RT: 5.007 min Scan# 64

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion: 42 Resp: 208362

Ion Ratio Lower Upper

42 100

72 44.2 37.0 55.6

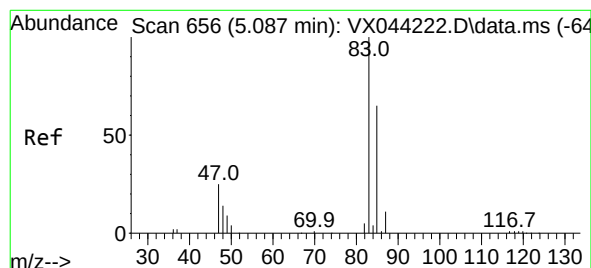
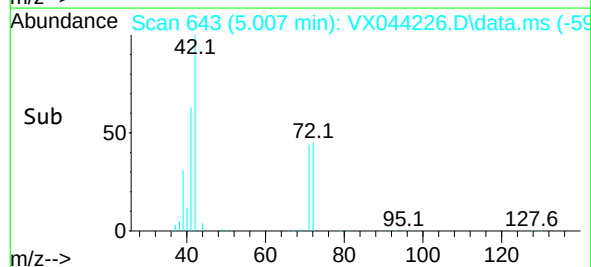
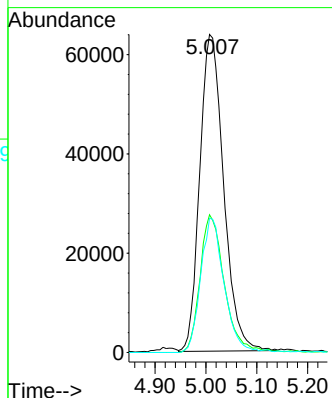
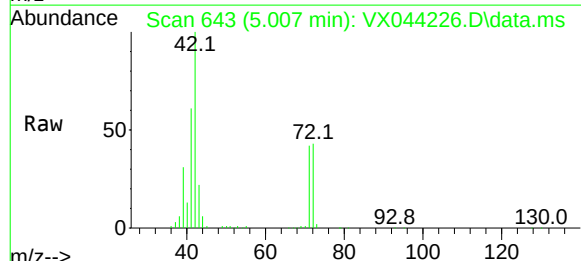
71 41.5 33.6 50.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#30

Chloroform

Concen: 46.235 ug/l

RT: 5.092 min Scan# 657

Delta R.T. 0.006 min

Lab File: VX044226.D

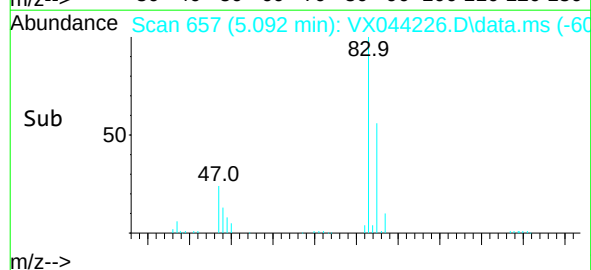
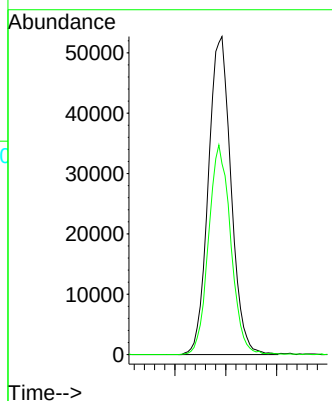
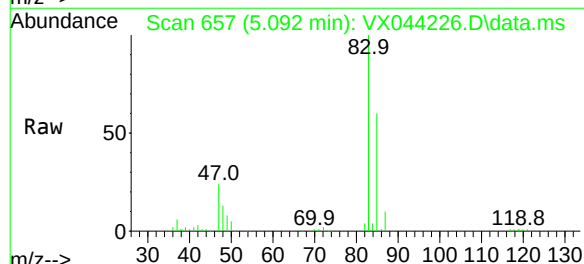
Acq: 11 Dec 2024 13:51

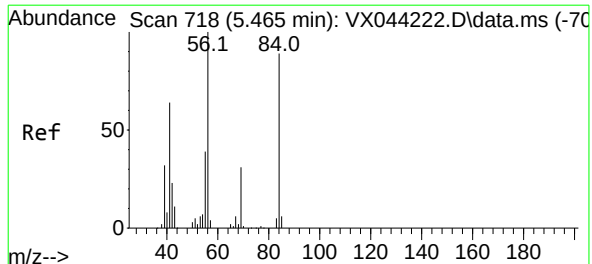
Tgt Ion: 83 Resp: 163372

Ion Ratio Lower Upper

83 100

85 60.0 51.6 77.4





#31

Cyclohexane

Concen: 49.443 ug/l

RT: 5.458 min Scan# 71

Delta R.T. -0.006 min

Lab File: VX044226.D

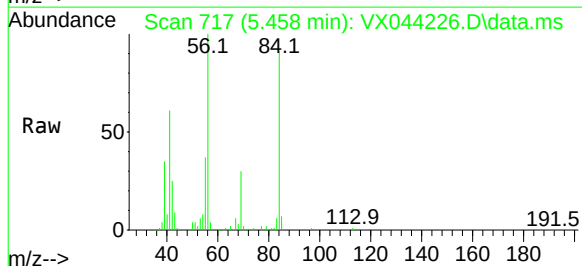
Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124



Tgt Ion: 56 Resp: 125567

Ion Ratio Lower Upper

56 100

69 30.2 24.7 37.1

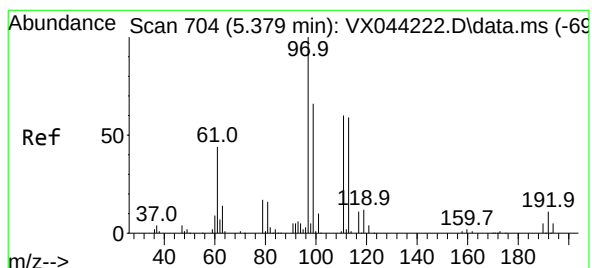
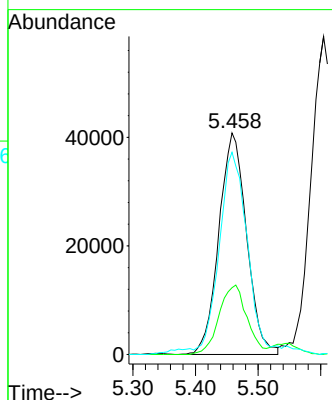
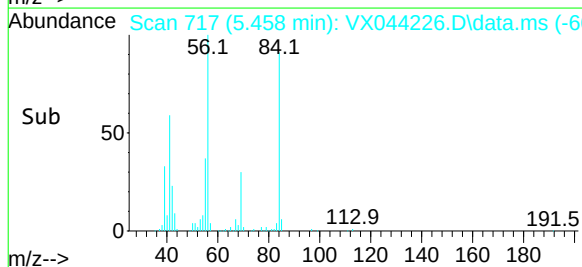
84 88.8 71.0 106.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#32

1,1,1-Trichloroethane

Concen: 49.895 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

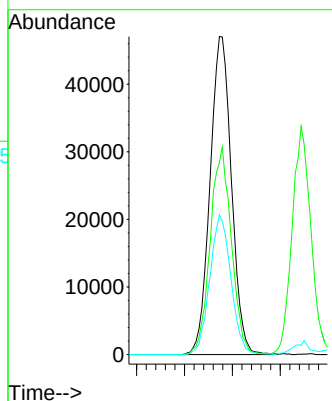
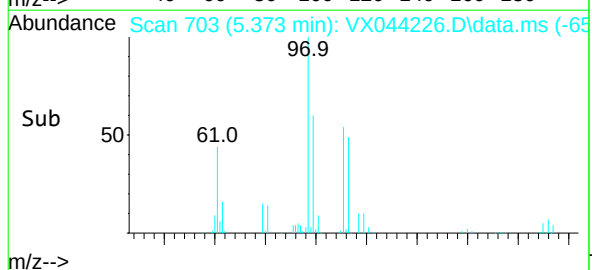
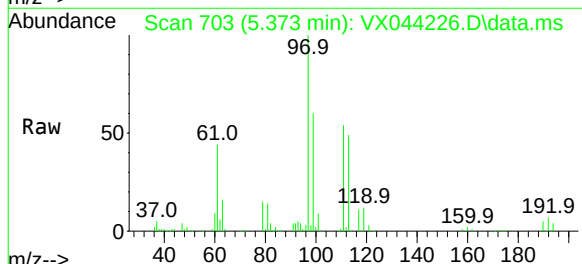
Tgt Ion: 97 Resp: 146348

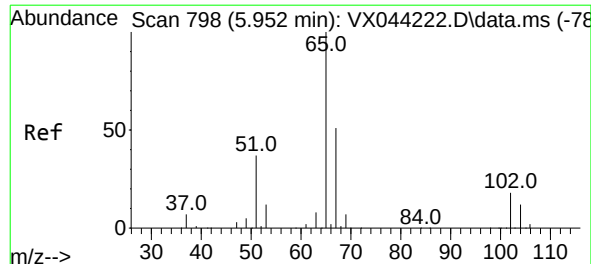
Ion Ratio Lower Upper

97 100

99 64.2 50.8 76.2

61 43.3 35.2 52.8





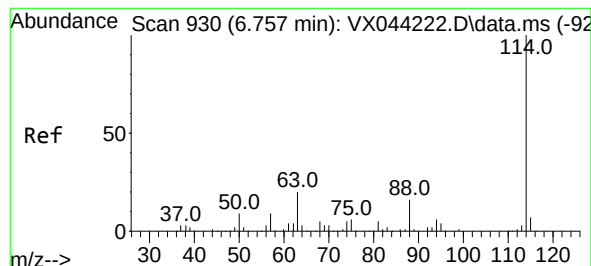
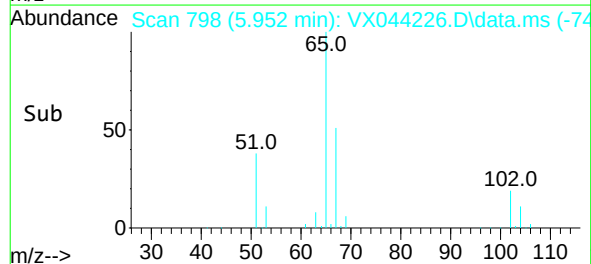
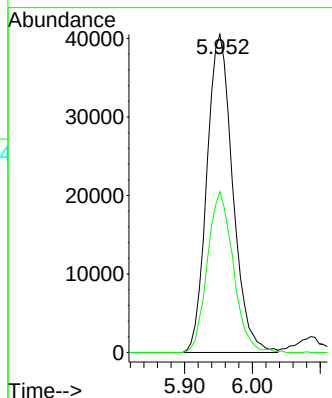
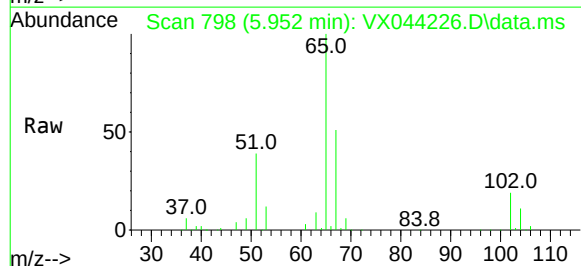
#33
1,2-Dichloroethane-d4
Concen: 45.646 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 65 Resp: 107407
Ion Ratio Lower Upper
65 100
67 50.5 0.0 101.6

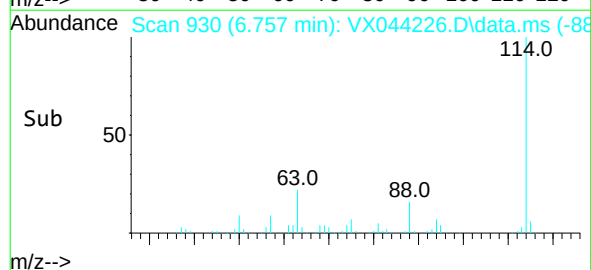
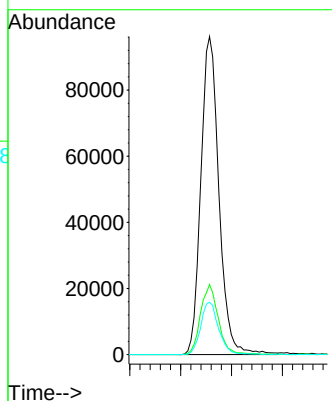
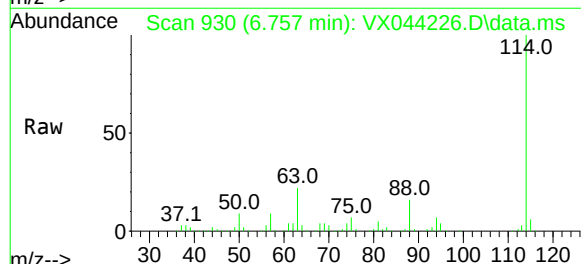
Manual Integrations
APPROVED

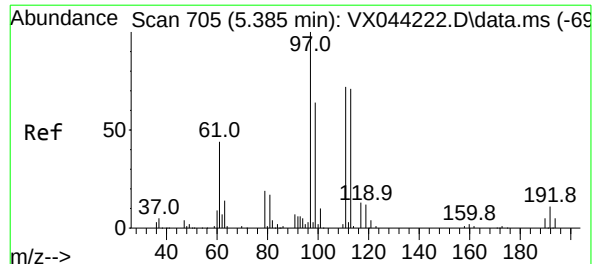
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:114 Resp: 237295
Ion Ratio Lower Upper
114 100
63 22.0 0.0 40.6
88 16.4 0.0 31.8





#35

Dibromofluoromethane

Concen: 47.228 ug/l

RT: 5.379 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion:113 Resp: 77619

Ion Ratio Lower Upper

113 100

111 103.8 80.4 120.6

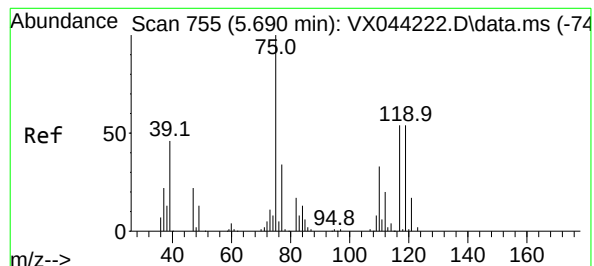
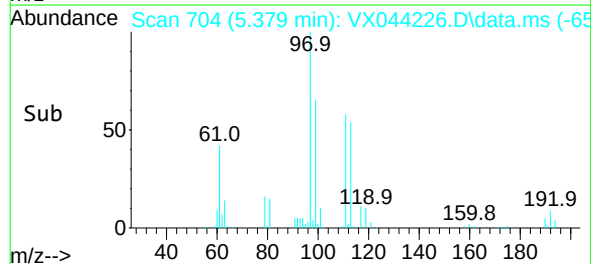
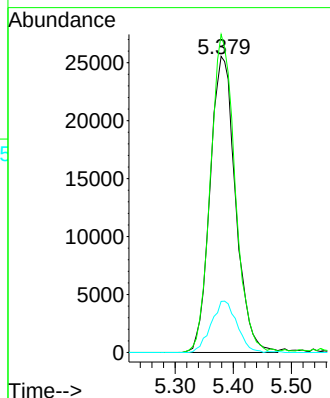
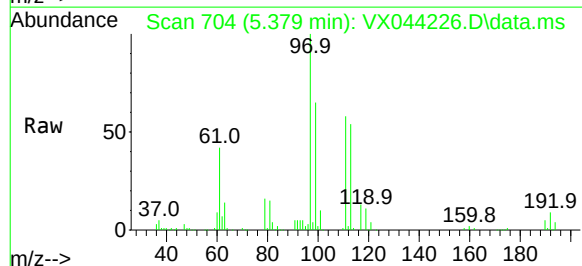
192 17.5 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#36

1,1-Dichloropropene

Concen: 50.314 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

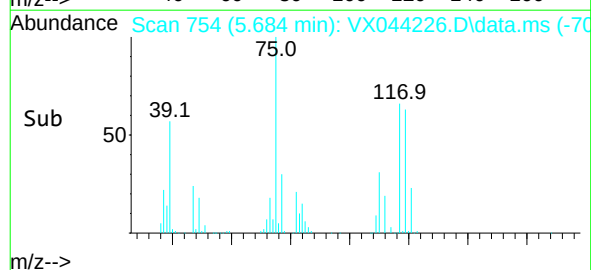
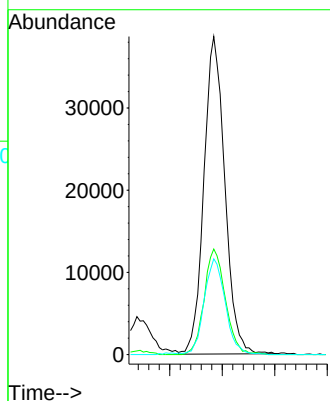
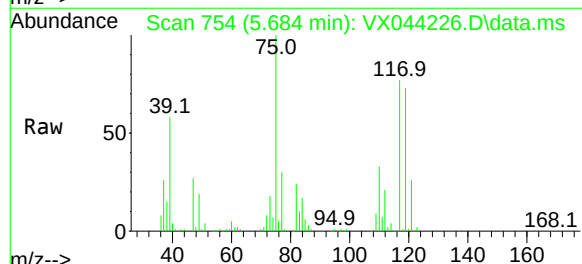
Tgt Ion: 75 Resp: 106889

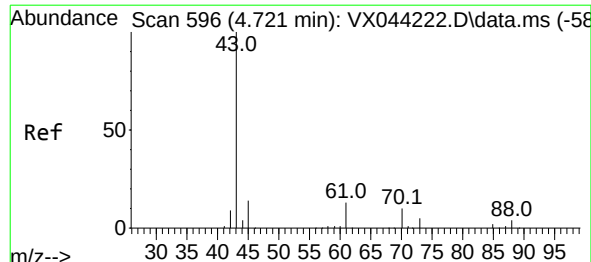
Ion Ratio Lower Upper

75 100

110 33.8 17.3 51.7

77 30.5 25.4 38.0





#37

Ethyl Acetate

Concen: 52.176 ug/l

RT: 4.721 min Scan# 596

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion: 43 Resp: 137017

Ion Ratio Lower Upper

43 100

61 12.0 9.8 14.8

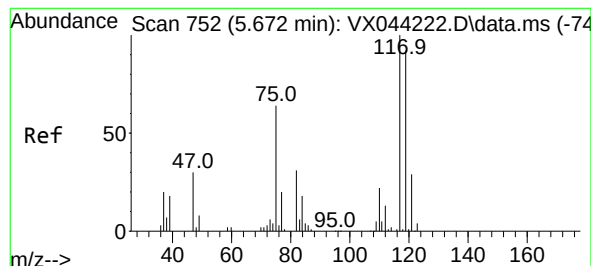
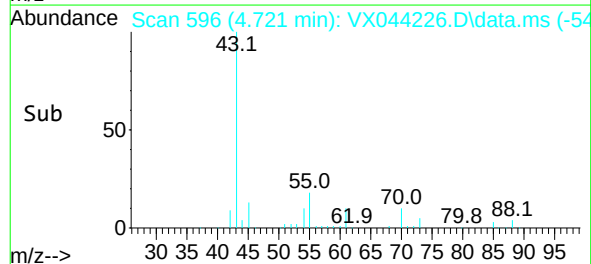
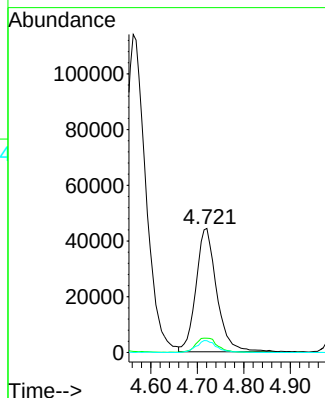
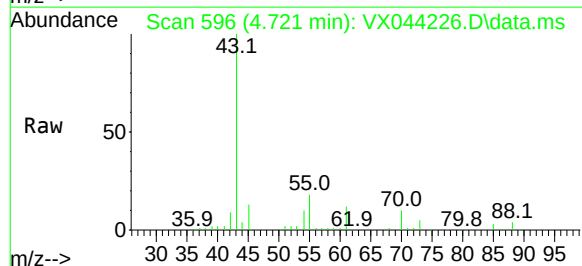
70 9.4 7.7 11.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#38

Carbon Tetrachloride

Concen: 51.763 ug/l

RT: 5.672 min Scan# 752

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

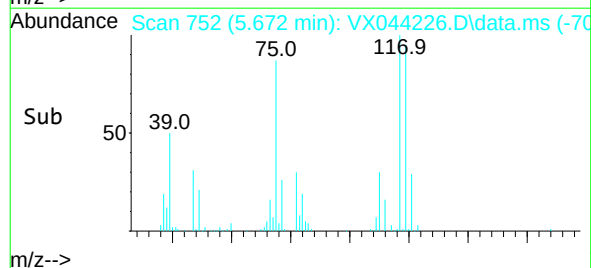
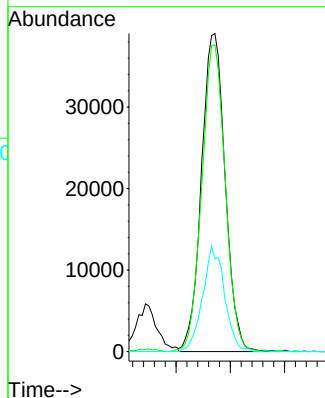
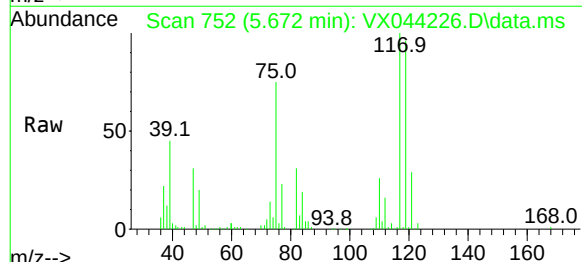
Tgt Ion:117 Resp: 118390

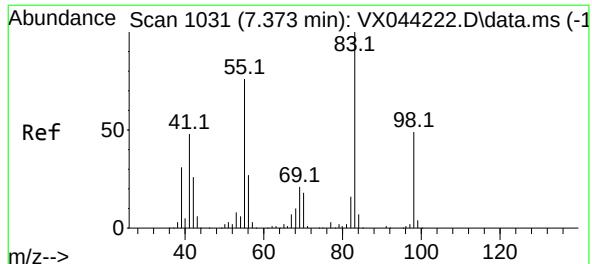
Ion Ratio Lower Upper

117 100

119 96.0 74.2 111.4

121 29.1 23.0 34.6





#39

Methylcyclohexane

Concen: 54.761 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion: 83 Resp: 139077

Ion Ratio Lower Upper

83 100

55 76.1 60.7 91.1

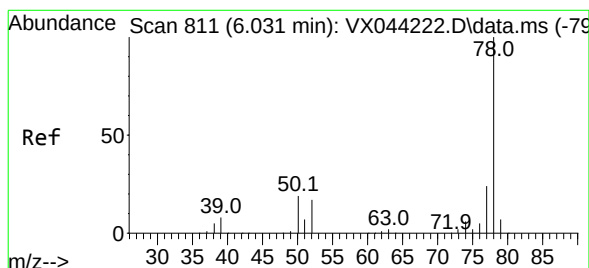
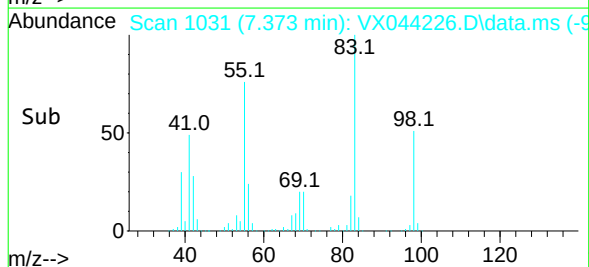
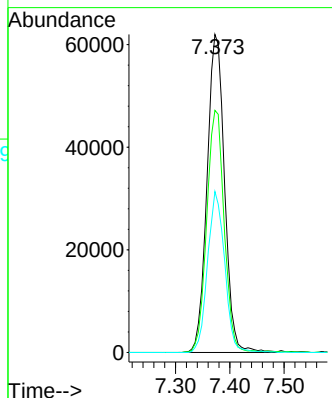
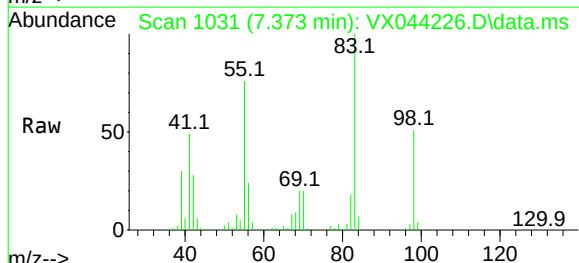
98 50.6 38.9 58.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#40

Benzene

Concen: 49.052 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX044226.D

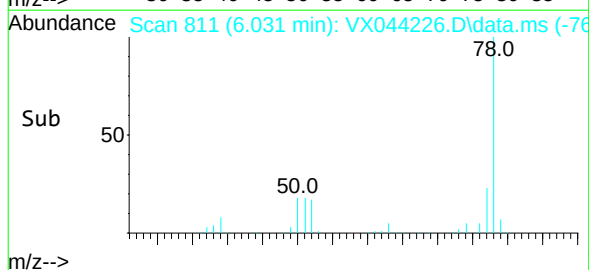
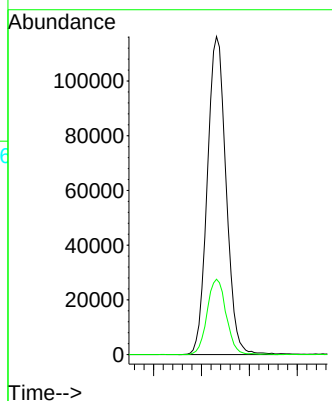
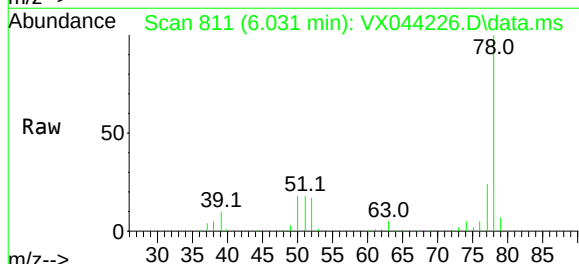
Acq: 11 Dec 2024 13:51

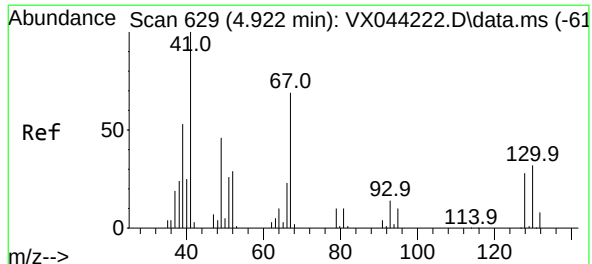
Tgt Ion: 78 Resp: 316391

Ion Ratio Lower Upper

78 100

77 23.7 19.3 28.9





#41

Methacrylonitrile

Concen: 48.945 ug/l

RT: 4.922 min Scan# 62

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion: 41 Resp: 68251

Ion Ratio Lower Upper

41 100

39 56.3 44.2 66.4

67 69.8 57.2 85.8

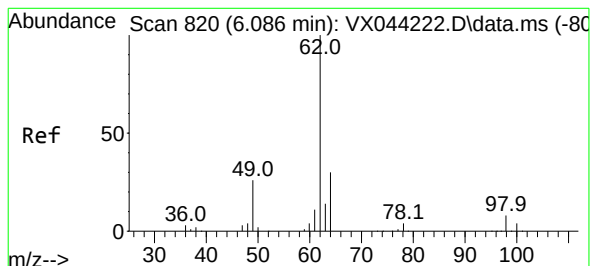
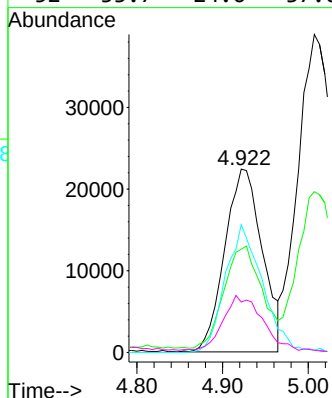
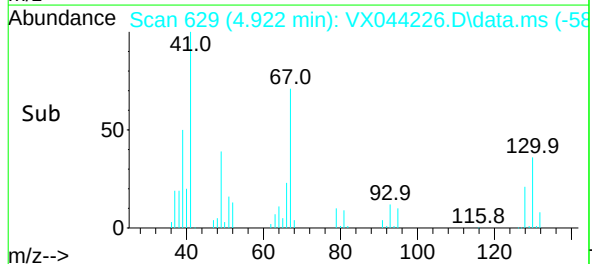
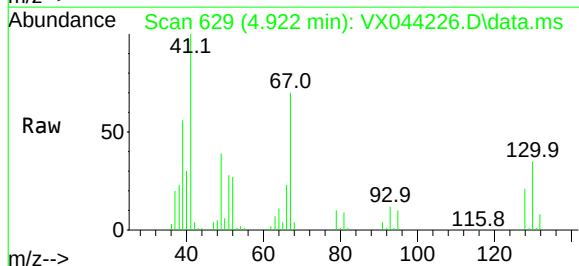
52 33.7 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#42

1,2-Dichloroethane

Concen: 49.960 ug/l

RT: 6.086 min Scan# 820

Delta R.T. -0.000 min

Lab File: VX044226.D

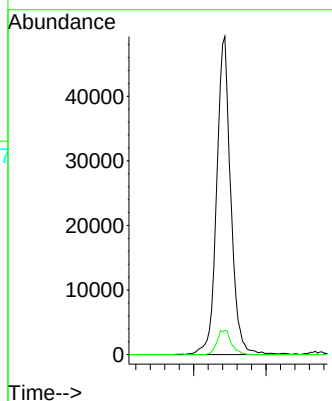
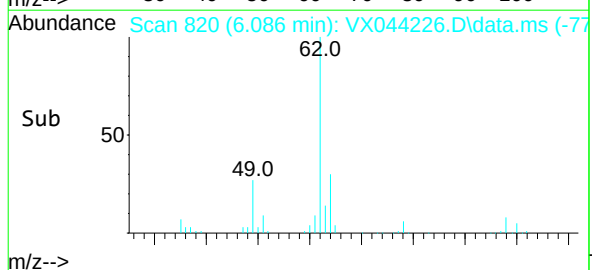
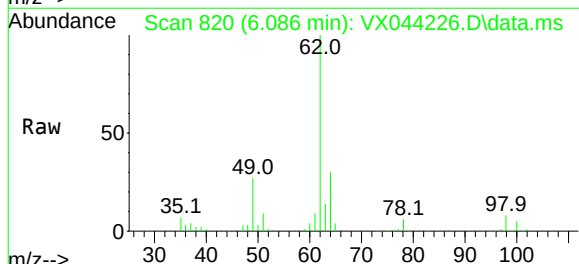
Acq: 11 Dec 2024 13:51

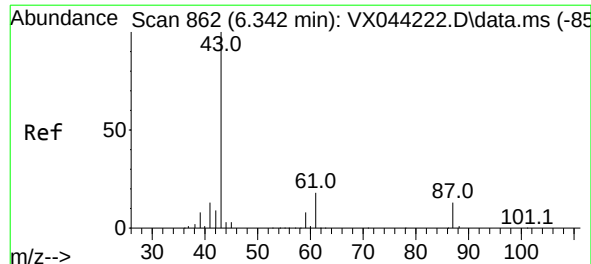
Tgt Ion: 62 Resp: 132744

Ion Ratio Lower Upper

62 100

98 7.7 0.0 15.8





#43

Isopropyl Acetate

Concen: 51.624 ug/l

RT: 6.342 min Scan# 862

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion: 43 Resp: 211889

Ion Ratio Lower Upper

43 100

61 17.4 14.2 21.2

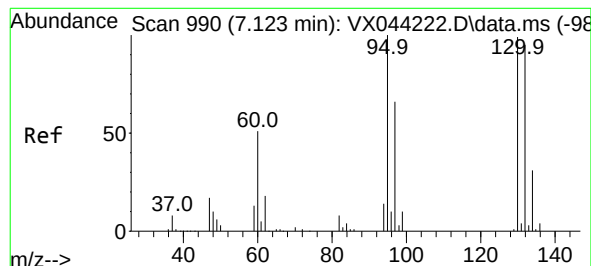
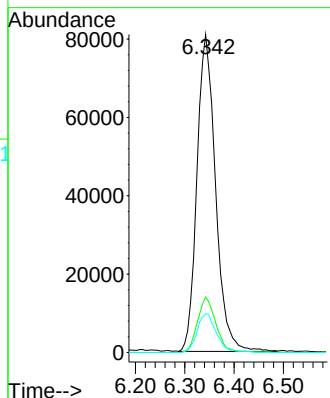
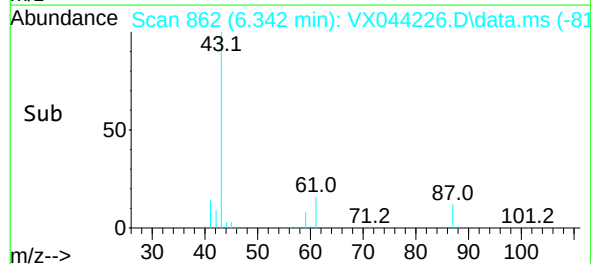
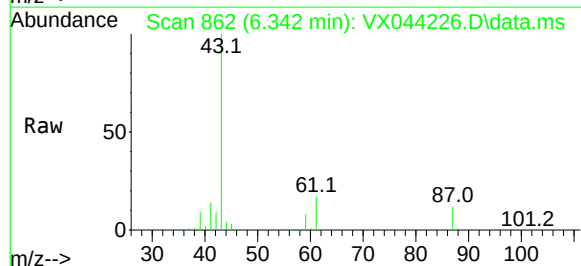
87 12.7 10.2 15.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#44

Trichloroethene

Concen: 49.741 ug/l

RT: 7.123 min Scan# 990

Delta R.T. -0.000 min

Lab File: VX044226.D

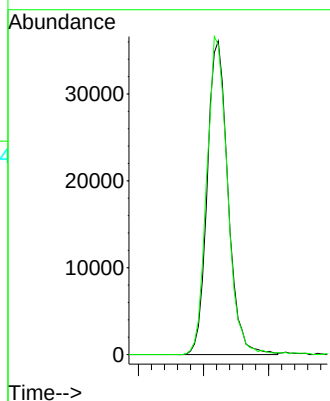
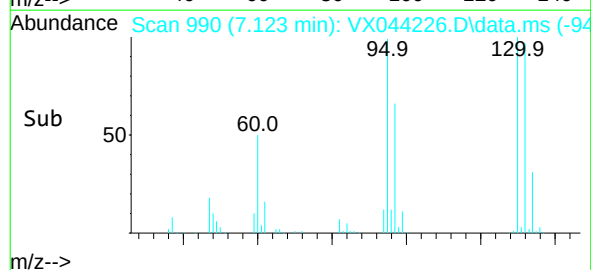
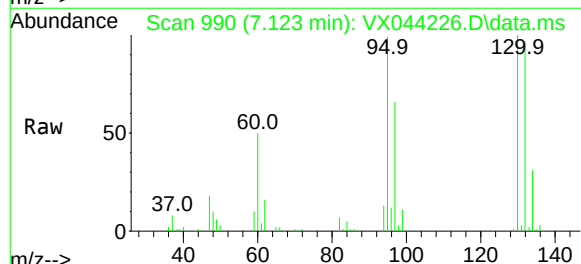
Acq: 11 Dec 2024 13:51

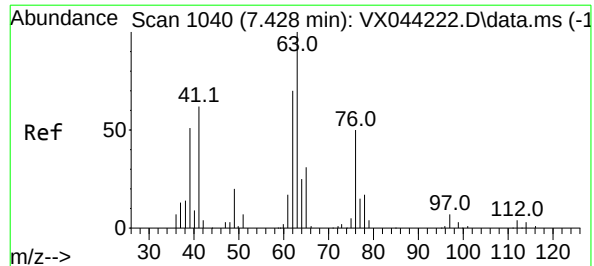
Tgt Ion:130 Resp: 80008

Ion Ratio Lower Upper

130 100

95 98.8 0.0 201.4





#45

1,2-Dichloropropane

Concen: 47.528 ug/l

RT: 7.427 min Scan# 10

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion: 63 Resp: 78321

Ion Ratio Lower Upper

63 100

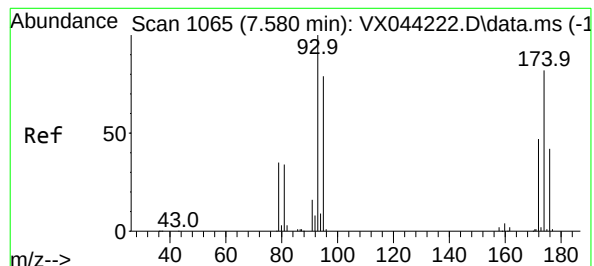
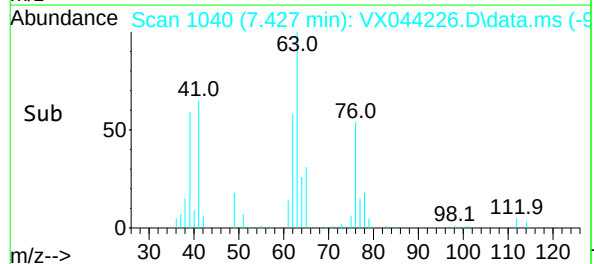
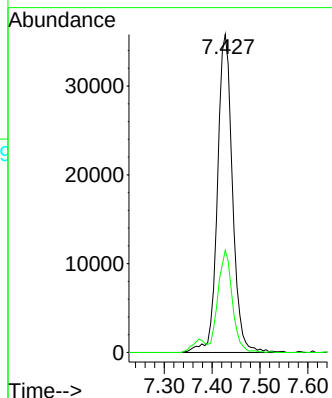
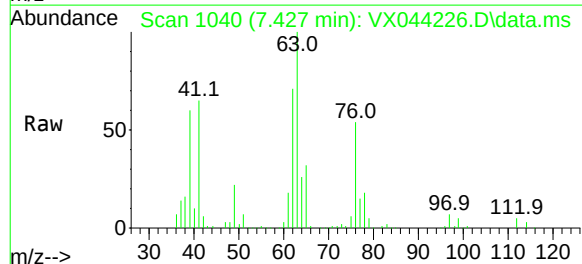
65 32.1 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#46

Dibromomethane

Concen: 51.227 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. -0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

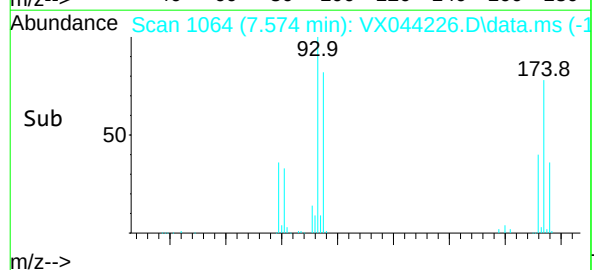
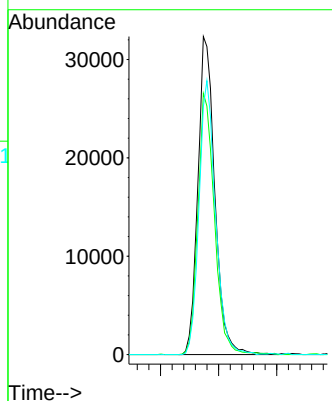
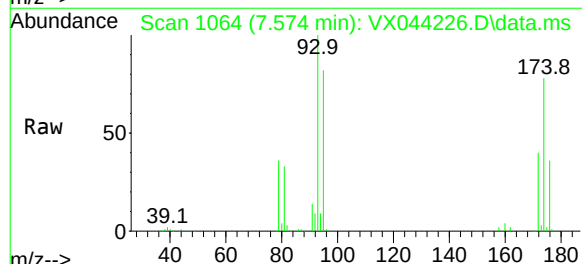
Tgt Ion: 93 Resp: 65491

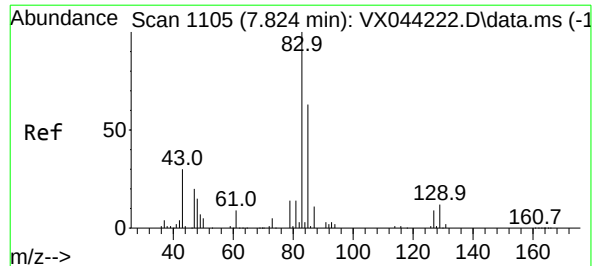
Ion Ratio Lower Upper

93 100

95 80.5 65.4 98.2

174 84.0 67.9 101.9





#47

Bromodichloromethane

Concen: 52.893 ug/l

RT: 7.818 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion: 83 Resp: 116783

Ion Ratio Lower Upper

83 100

85 63.5 50.6 75.8

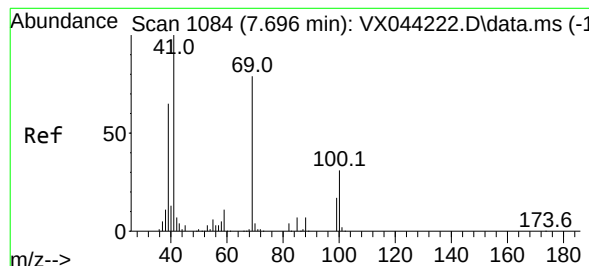
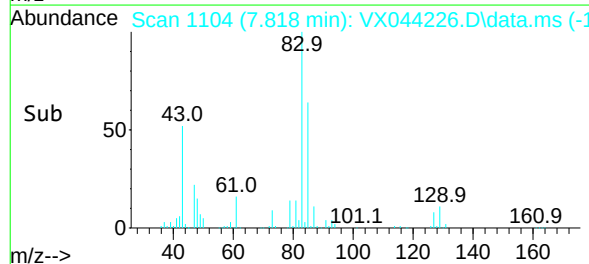
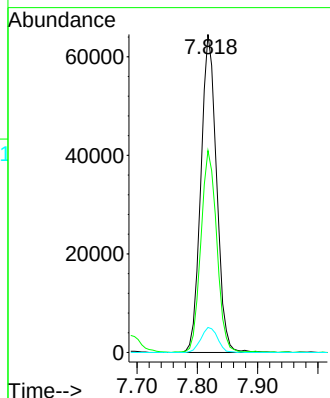
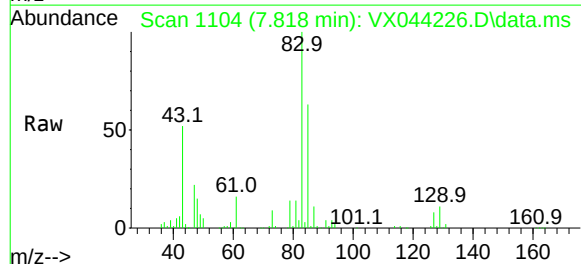
127 7.9 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#48

Methyl methacrylate

Concen: 50.852 ug/l

RT: 7.690 min Scan# 1083

Delta R.T. -0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

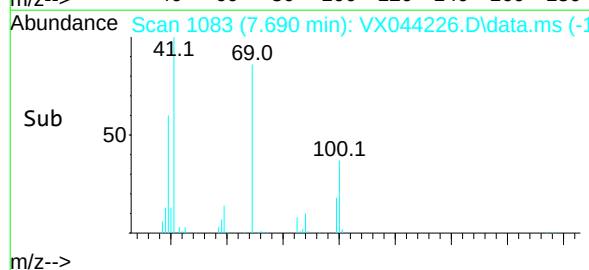
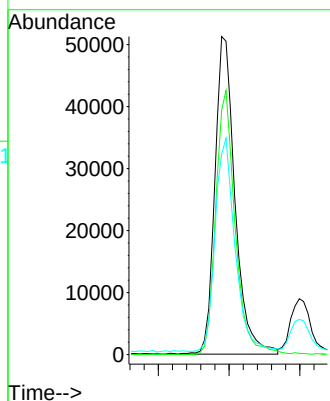
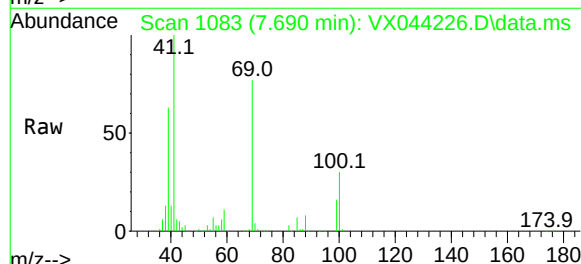
Tgt Ion: 41 Resp: 101318

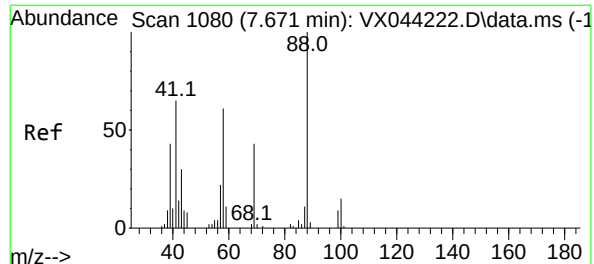
Ion Ratio Lower Upper

41 100

69 79.9 62.4 93.6

39 66.0 53.3 79.9





#49

1,4-Dioxane

Concen: 923.966 ug/l m

RT: 7.665 min Scan# 10

Delta R.T. -0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion: 88 Resp: 30522

Ion Ratio Lower Upper

88 100

43 44.4 27.1 40.7

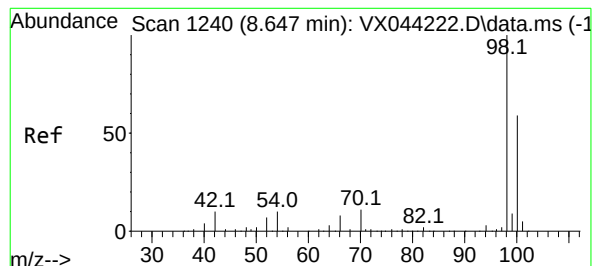
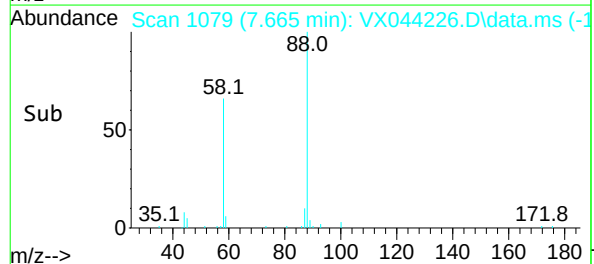
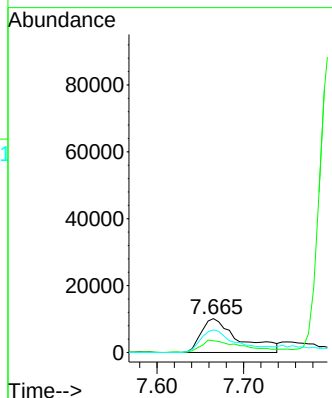
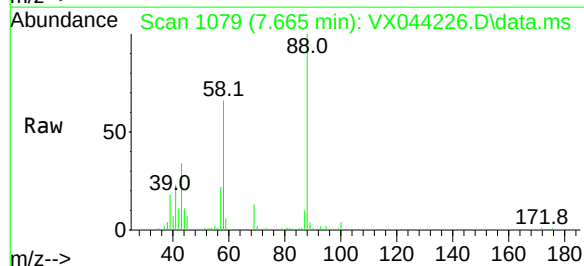
58 60.6 41.0 61.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#50

Toluene-d8

Concen: 48.968 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX044226.D

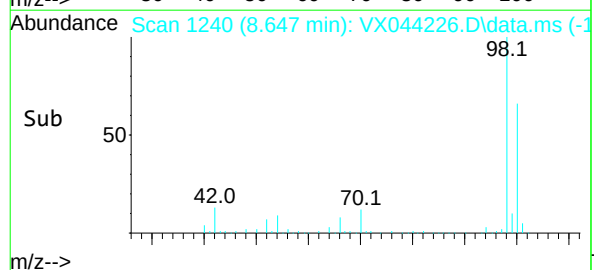
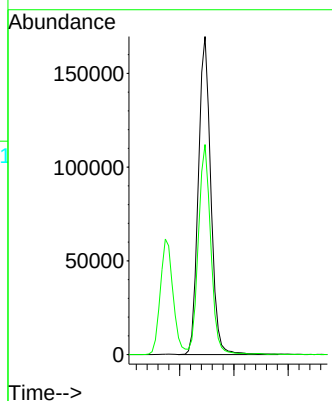
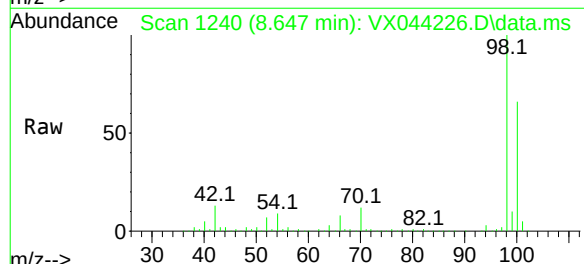
Acq: 11 Dec 2024 13:51

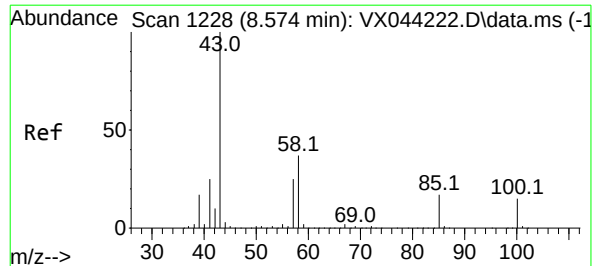
Tgt Ion: 98 Resp: 271508

Ion Ratio Lower Upper

98 100

100 64.8 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 255.038 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 673069

Ion Ratio Lower Upper

43 100

58 37.0 29.4 44.0

Instrument :

MSVOA_X

ClientSampleId :

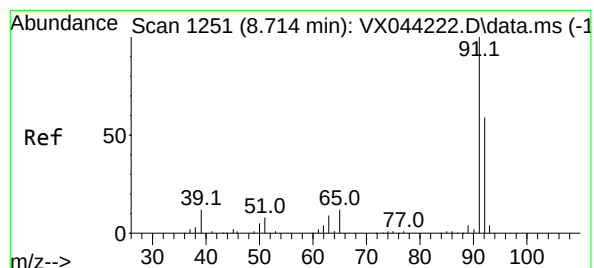
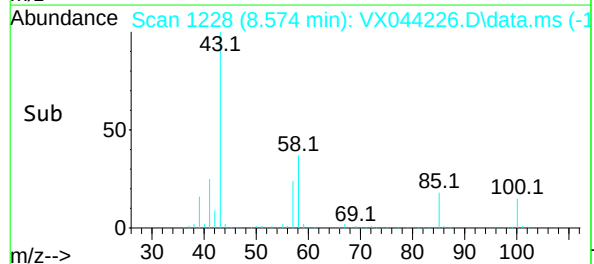
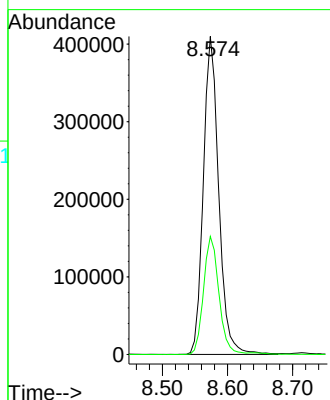
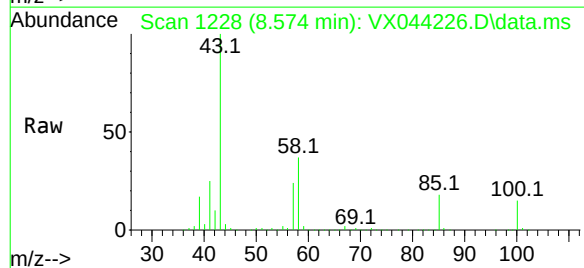
ICVX121124

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#52

Toluene

Concen: 49.199 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. -0.000 min

Lab File: VX044226.D

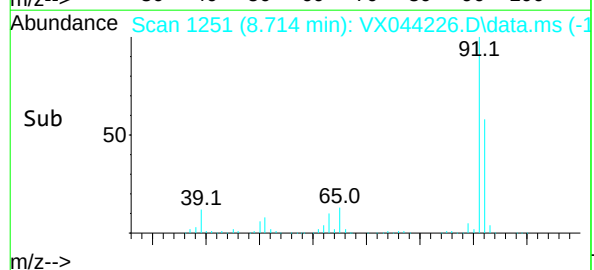
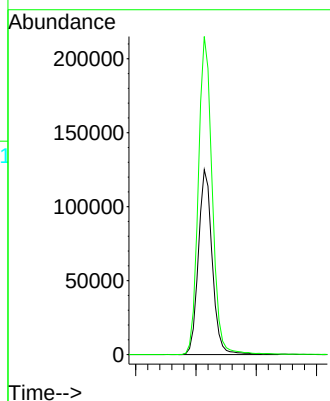
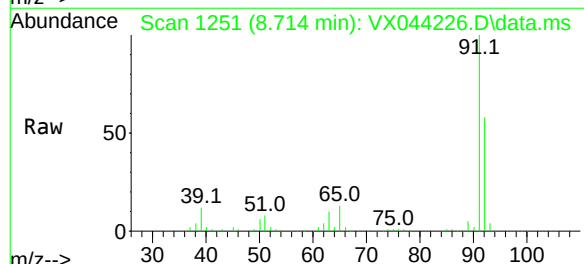
Acq: 11 Dec 2024 13:51

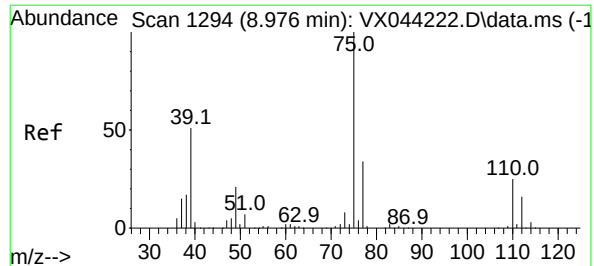
Tgt Ion: 92 Resp: 199281

Ion Ratio Lower Upper

92 100

91 173.2 137.0 205.6





#53

t-1,3-Dichloropropene

Concen: 50.864 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVWX121124

Tgt Ion: 75 Resp: 120696

Ion Ratio Lower Upper

75 100

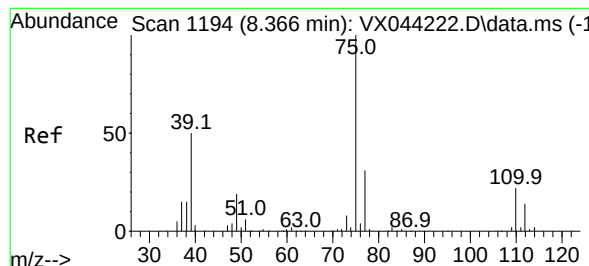
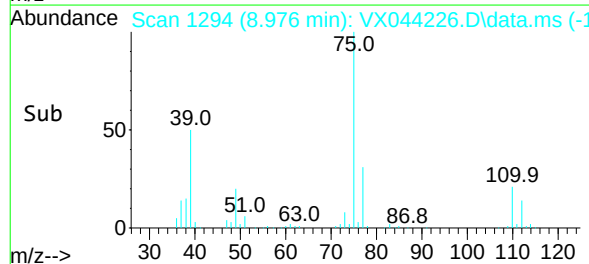
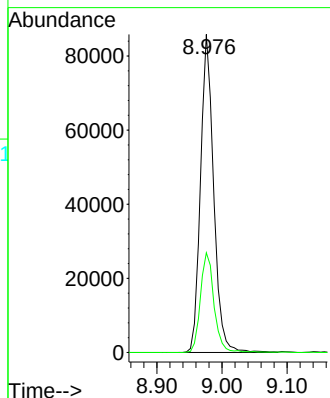
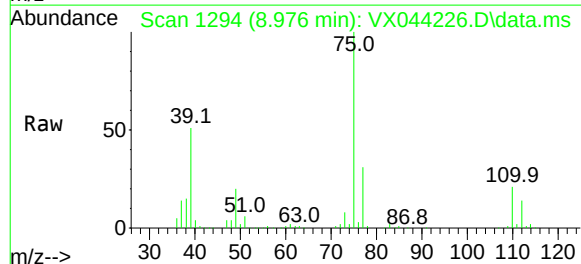
77 31.4 27.2 40.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#54

cis-1,3-Dichloropropene

Concen: 53.607 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

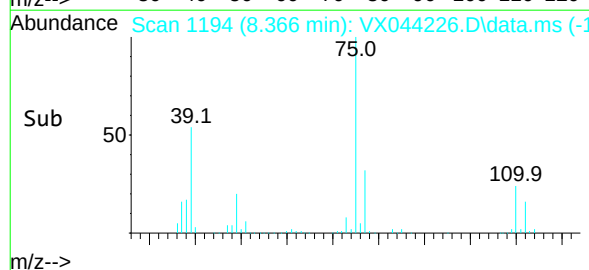
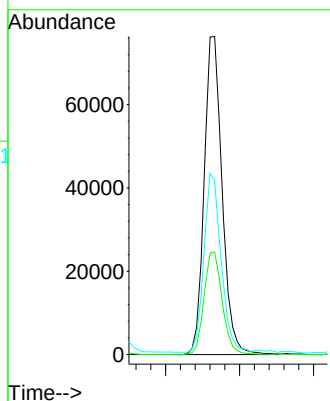
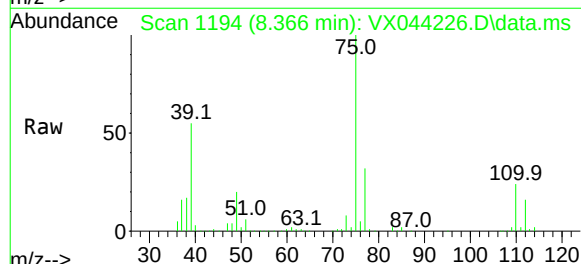
Tgt Ion: 75 Resp: 128875

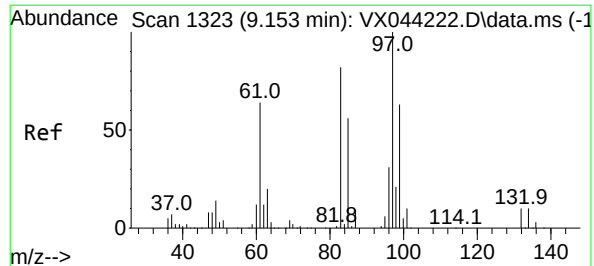
Ion Ratio Lower Upper

75 100

77 32.3 24.7 37.1

39 53.9 40.3 60.5





#55

1,1,2-Trichloroethane

Concen: 50.562 ug/l

RT: 9.153 min Scan# 13

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion: 97 Resp: 81362

Ion Ratio Lower Upper

97 100

83 78.3 65.3 97.9

85 53.6 44.6 67.0

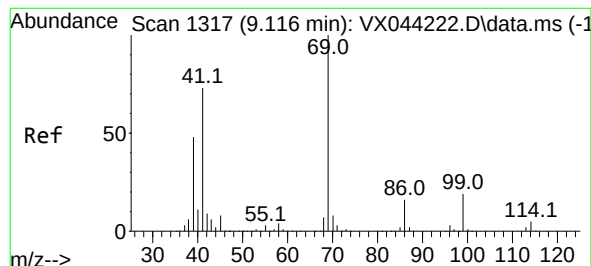
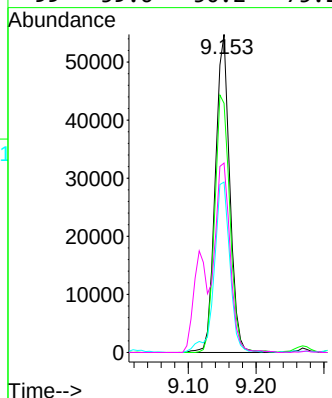
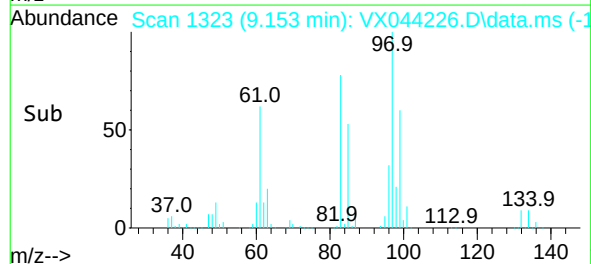
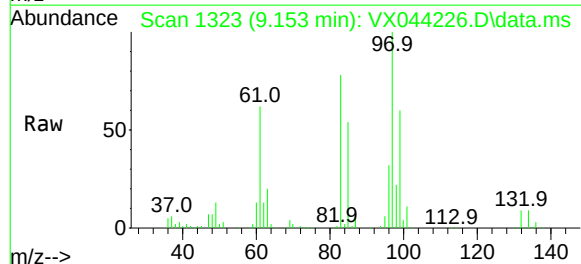
99 59.6 50.2 75.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#56

Ethyl methacrylate

Concen: 52.890 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

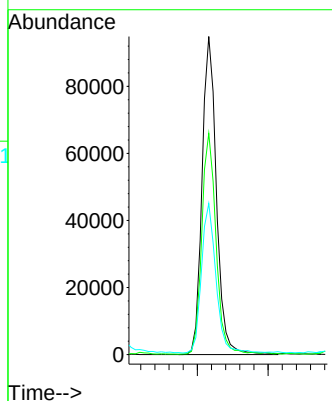
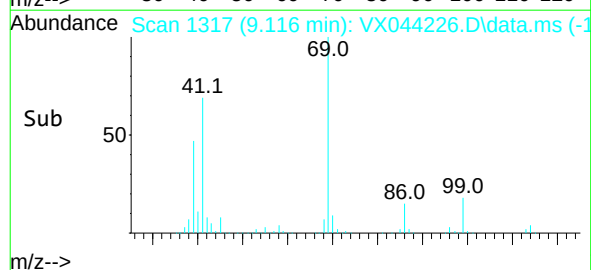
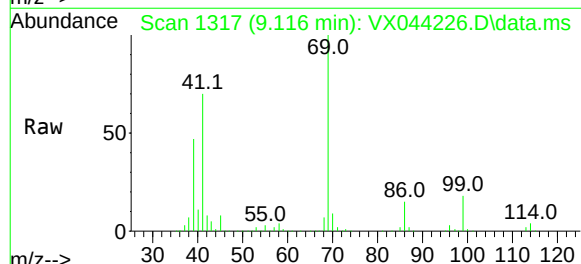
Tgt Ion: 69 Resp: 134357

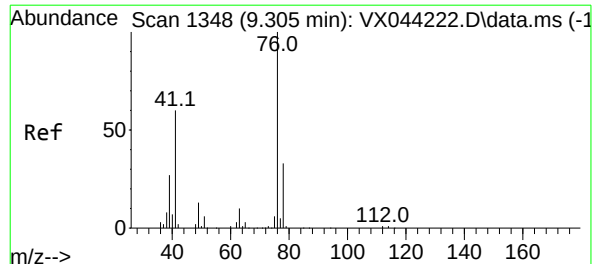
Ion Ratio Lower Upper

69 100

41 68.6 56.6 85.0

39 47.2 37.4 56.0





#57
1,3-Dichloropropane
Concen: 49.165 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

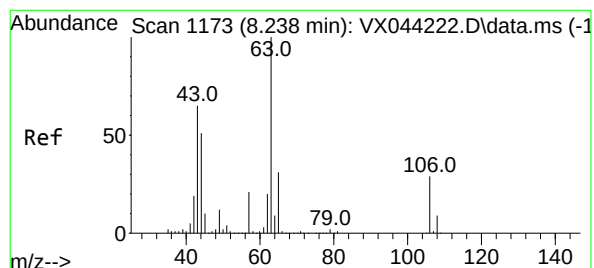
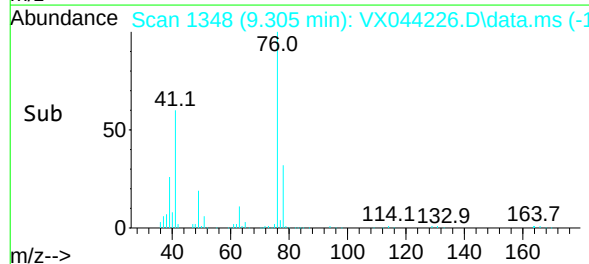
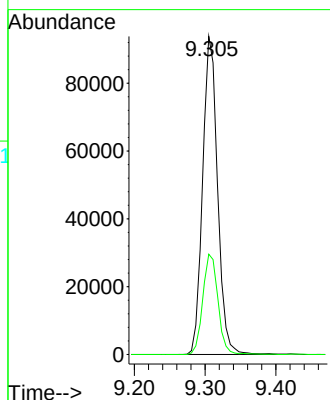
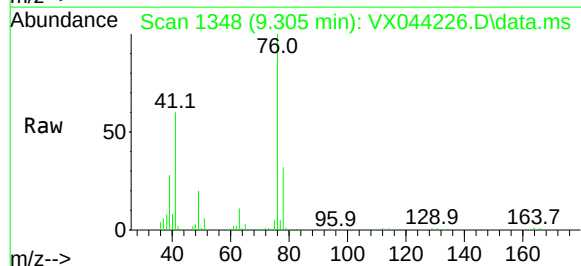
ClientSampleId :

ICVWX121124

Tgt Ion: 76 Resp: 137705
Ion Ratio Lower Upper
76 100
78 32.1 26.5 39.7

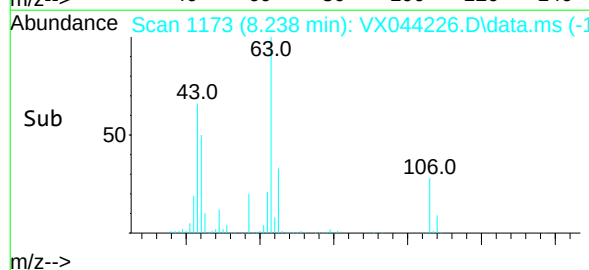
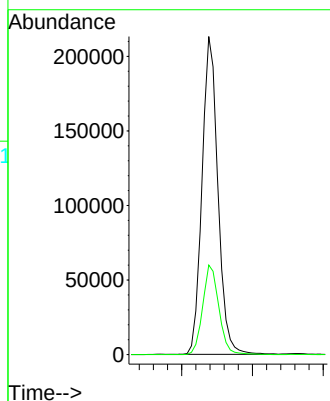
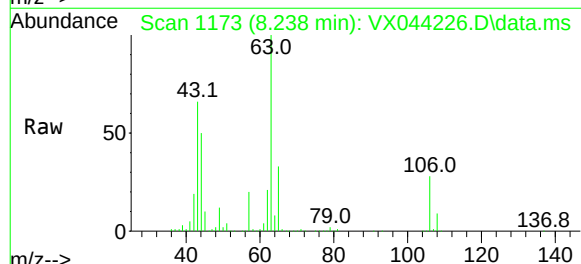
Manual Integrations
APPROVED

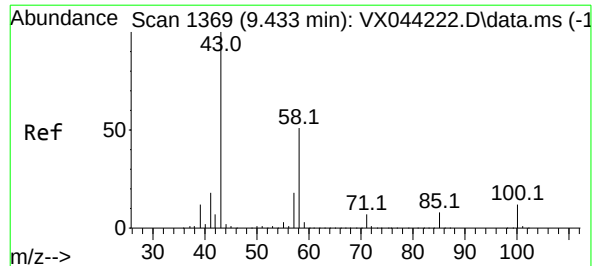
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#58
2-Chloroethyl Vinyl ether
Concen: 259.586 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 63 Resp: 332599
Ion Ratio Lower Upper
63 100
106 28.6 22.8 34.2





#59

2-Hexanone

Concen: 271.943 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 519476

Ion Ratio Lower Upper

43 100

58 50.7 25.7 77.0

Instrument :

MSVOA_X

ClientSampleId :

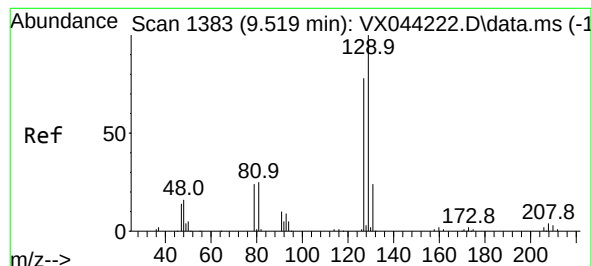
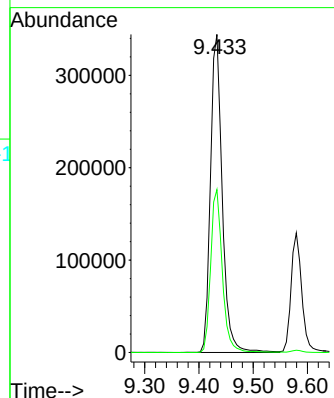
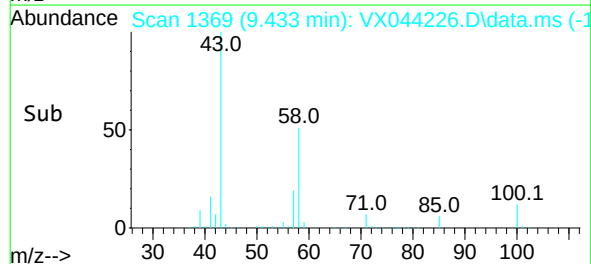
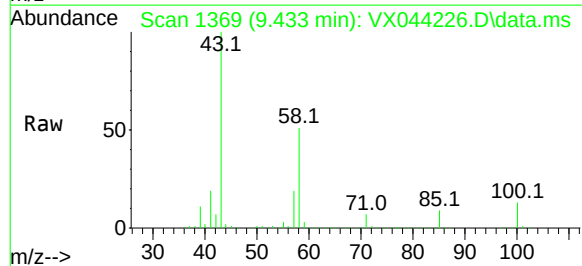
ICVWX121124

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#60

Dibromochloromethane

Concen: 49.073 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX044226.D

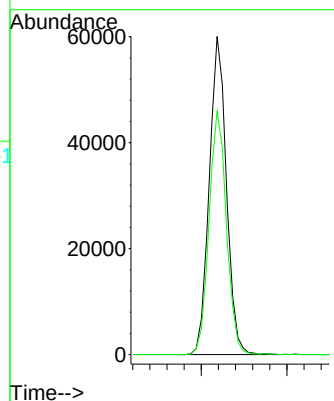
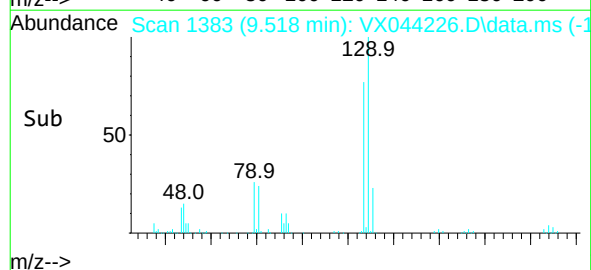
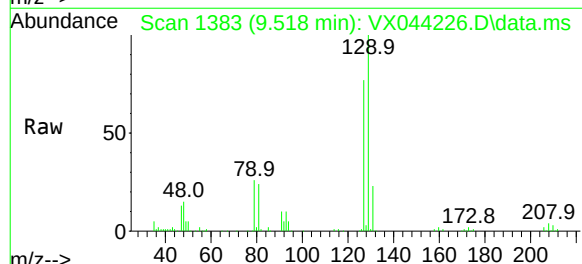
Acq: 11 Dec 2024 13:51

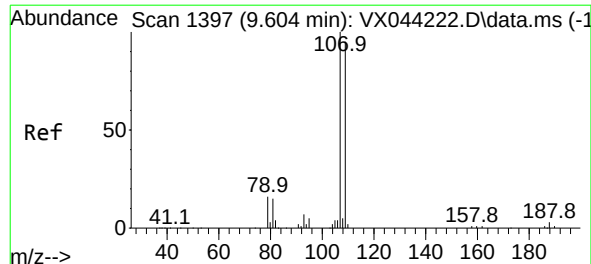
Tgt Ion:129 Resp: 83515

Ion Ratio Lower Upper

129 100

127 77.5 38.5 115.3





#61

1,2-Dibromoethane

Concen: 51.909 ug/l

RT: 9.610 min Scan# 1397

Delta R.T. 0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion:107 Resp: 85024

Ion Ratio Lower Upper

107 100

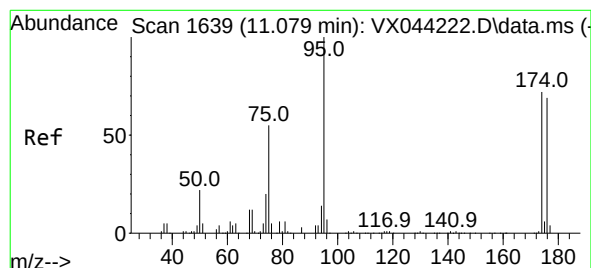
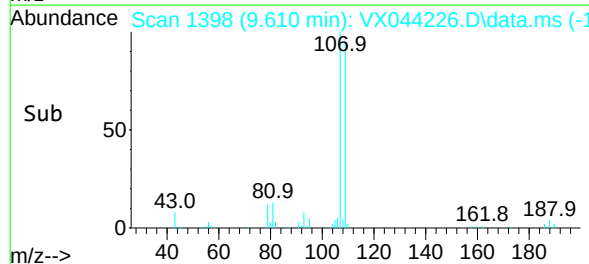
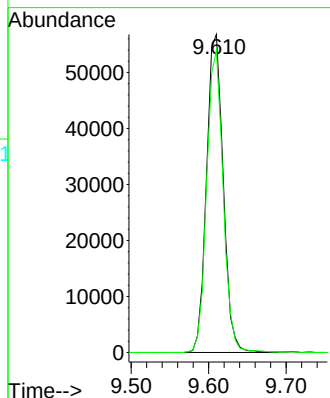
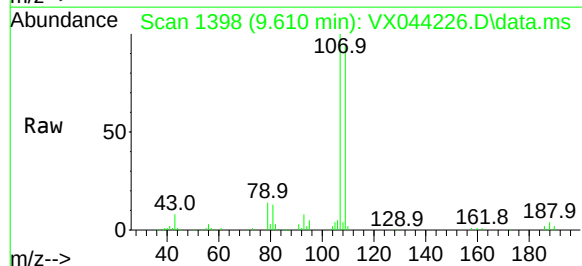
109 93.7 77.0 115.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#62

4-Bromofluorobenzene

Concen: 50.098 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

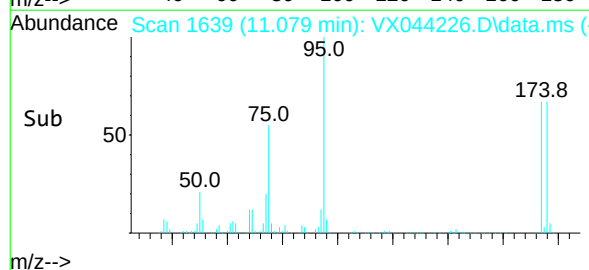
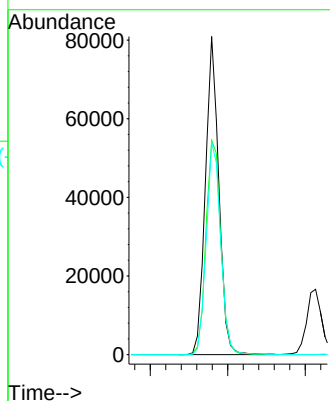
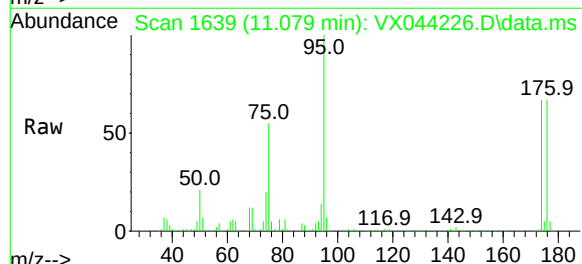
Tgt Ion: 95 Resp: 97061

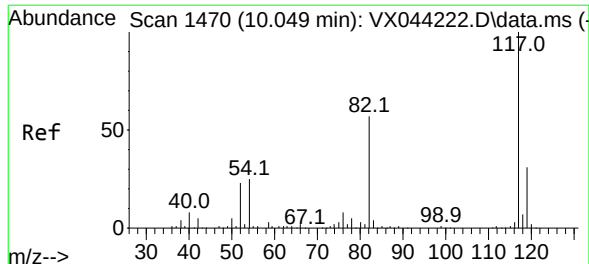
Ion Ratio Lower Upper

95 100

174 74.3 0.0 145.8

176 71.4 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion:117 Resp: 210572

Ion Ratio Lower Upper

117 100

82 54.0 45.8 68.8

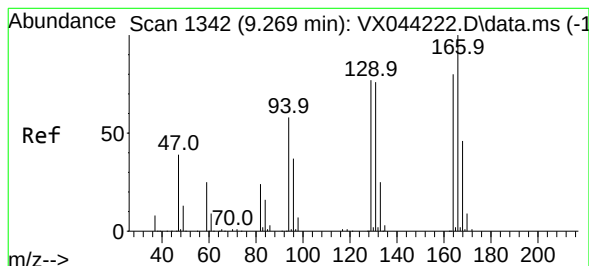
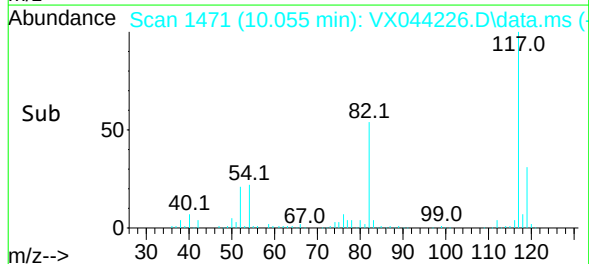
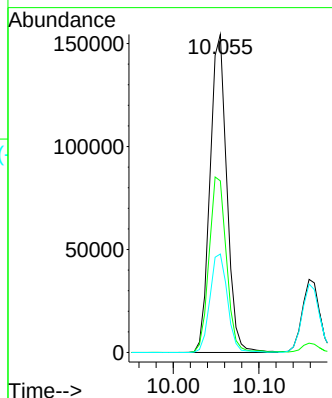
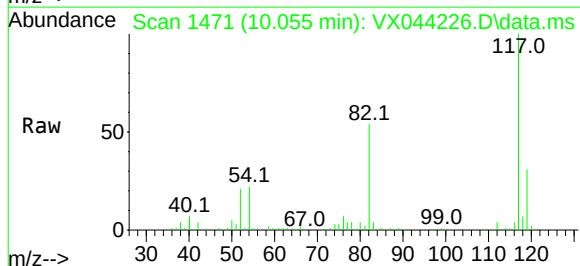
119 31.0 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#64

Tetrachloroethene

Concen: 47.702 ug/l

RT: 9.269 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Tgt Ion:164 Resp: 66669

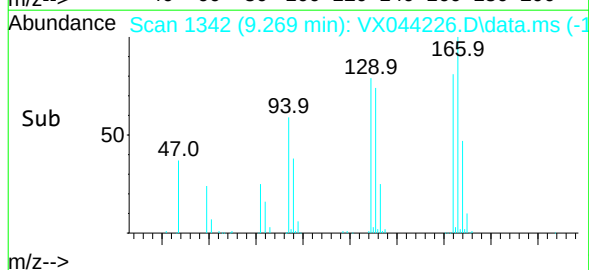
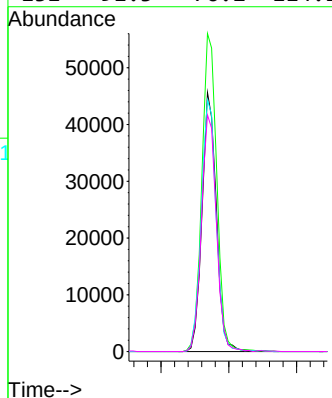
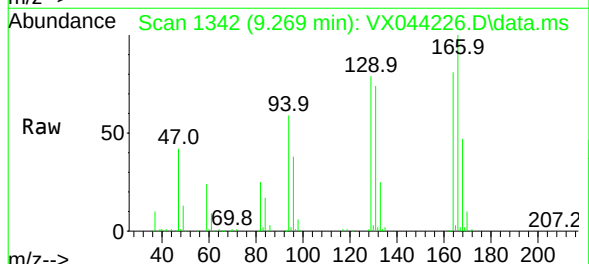
Ion Ratio Lower Upper

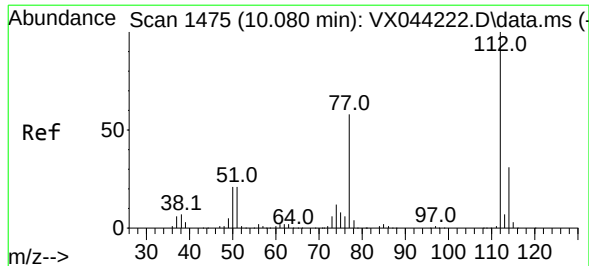
164 100

166 122.8 100.4 150.6

129 97.2 77.2 115.8

131 91.3 76.2 114.2





#65

Chlorobenzene

Concen: 48.133 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion:112 Resp: 217180

Ion Ratio Lower Upper

112 100

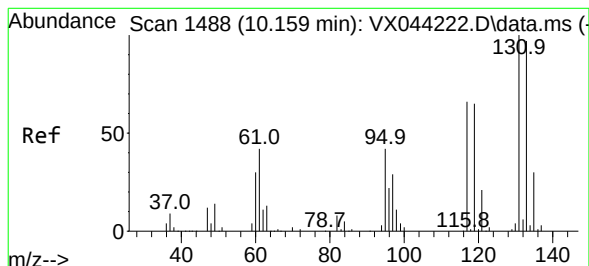
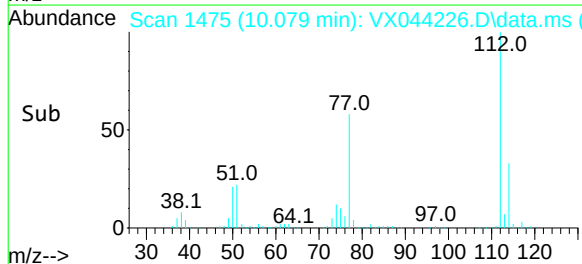
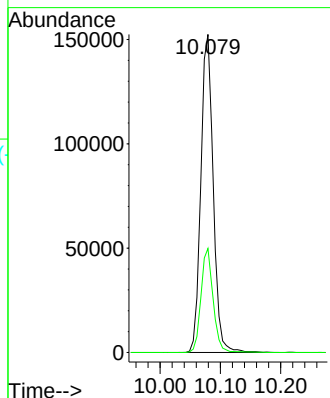
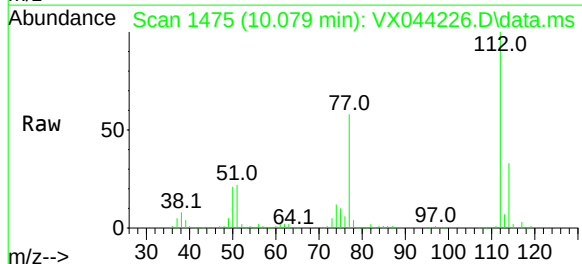
114 32.7 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 51.396 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

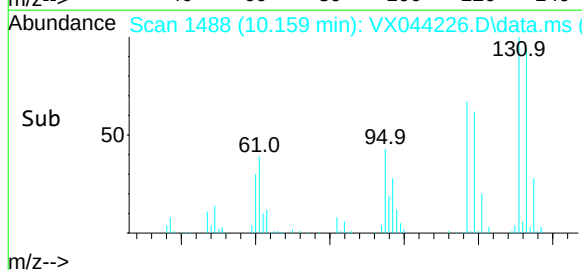
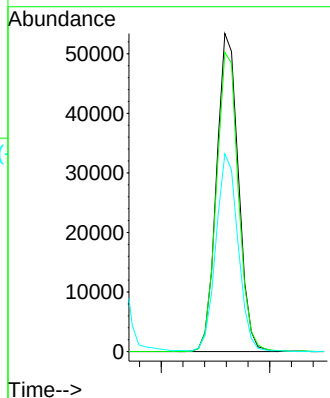
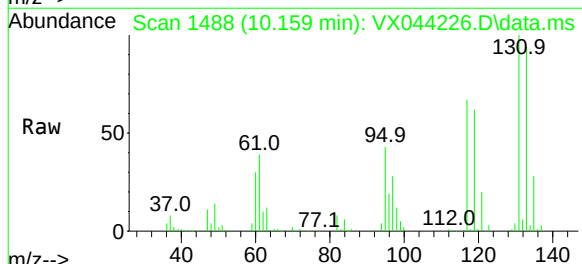
Tgt Ion:131 Resp: 74531

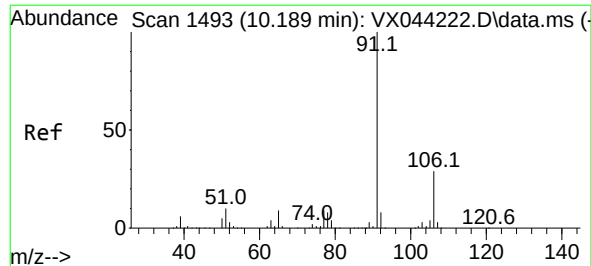
Ion Ratio Lower Upper

131 100

133 94.6 47.3 141.8

119 63.3 31.6 95.0





#67

Ethyl Benzene

Concen: 49.461 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion: 91 Resp: 385605

Ion Ratio Lower Upper

91 100

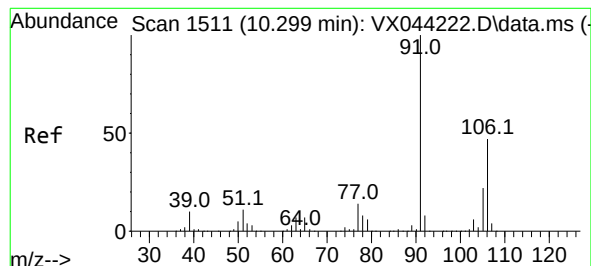
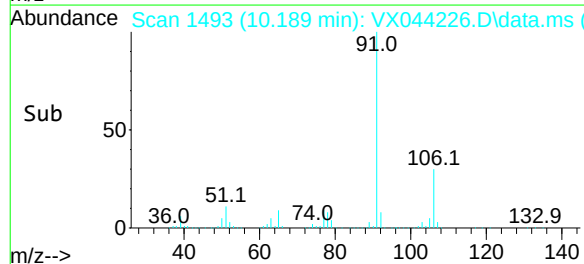
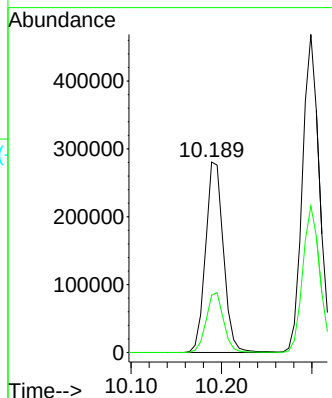
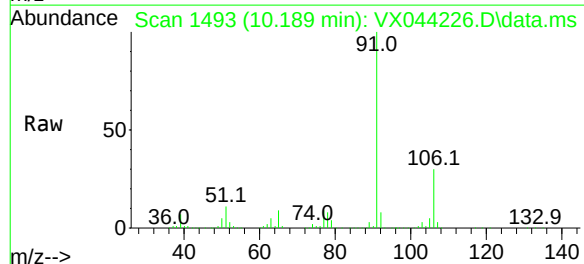
106 30.1 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#68

m/p-Xylenes

Concen: 99.896 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX044226.D

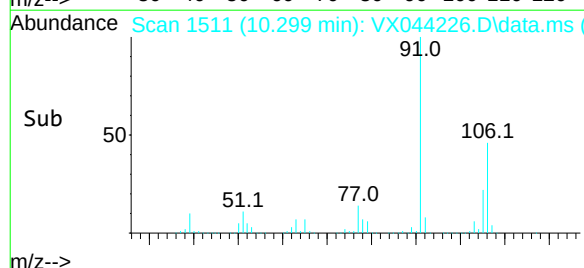
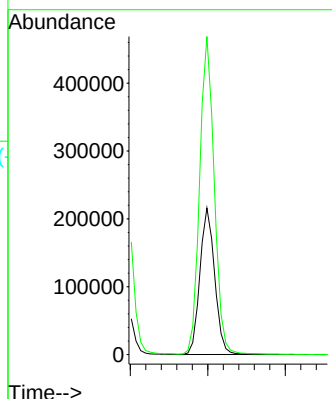
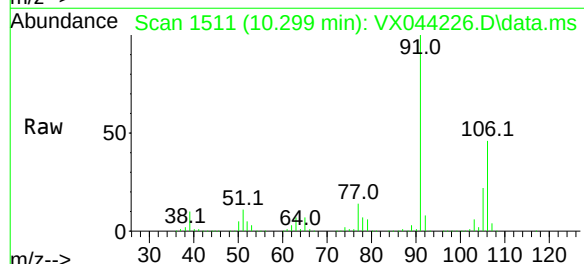
Acq: 11 Dec 2024 13:51

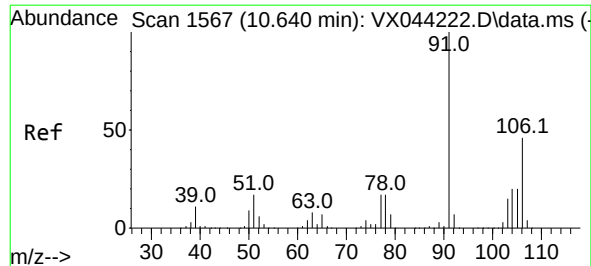
Tgt Ion:106 Resp: 285774

Ion Ratio Lower Upper

106 100

91 214.6 170.2 255.2





#69

o-Xylene

Concen: 49.750 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVWX121124

Tgt Ion:106 Resp: 144001

Ion Ratio Lower Upper

106 100

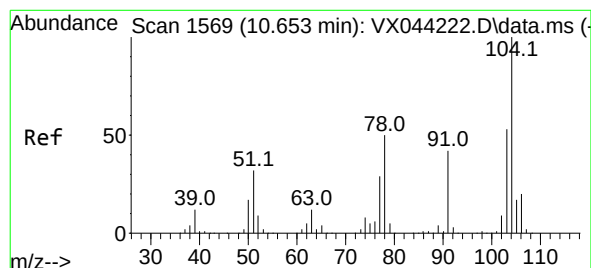
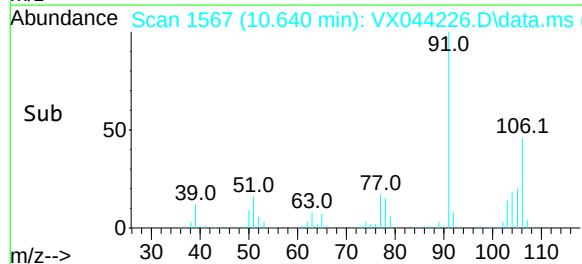
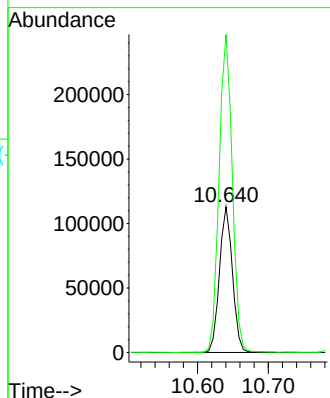
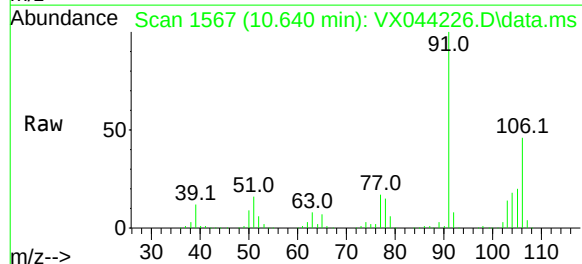
91 221.9 112.3 337.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#70

Styrene

Concen: 51.617 ug/l

RT: 10.652 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

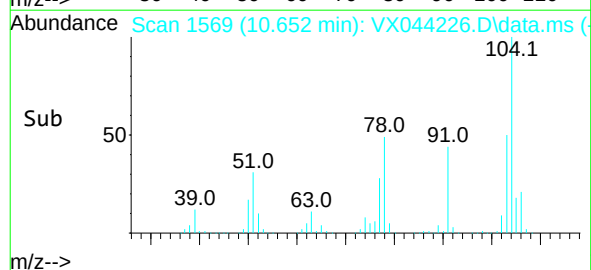
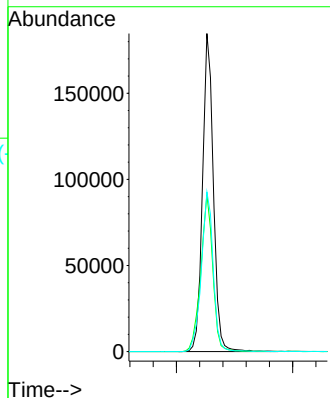
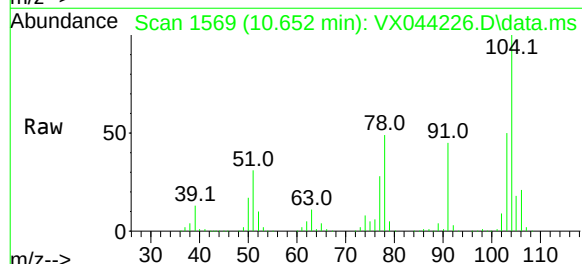
Tgt Ion:104 Resp: 239508

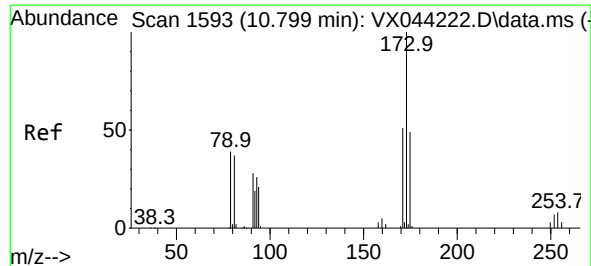
Ion Ratio Lower Upper

104 100

78 54.5 44.6 67.0

103 54.9 45.4 68.0





#71

Bromoform

Concen: 50.269 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

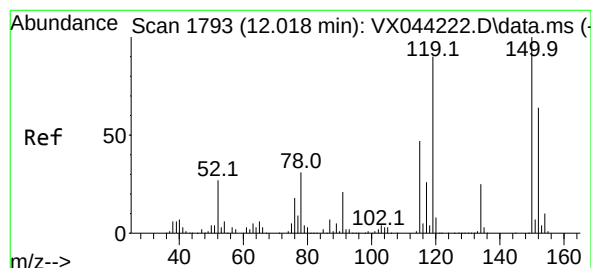
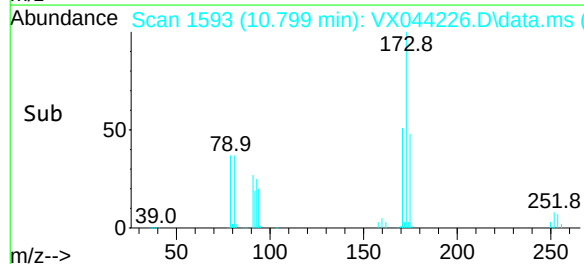
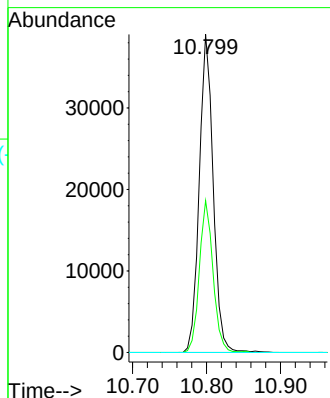
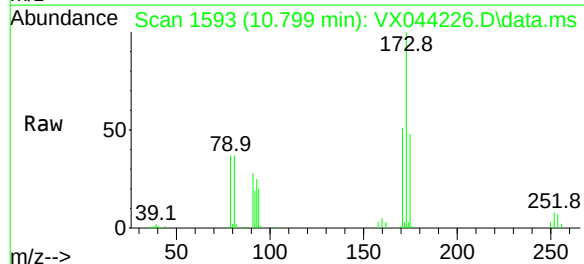
ClientSampleId :

ICVVX121124

Tgt Ion:	173	Resp:	50972
Ion Ratio	Lower	Upper	
173	100		
175	47.1	23.8	71.4
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

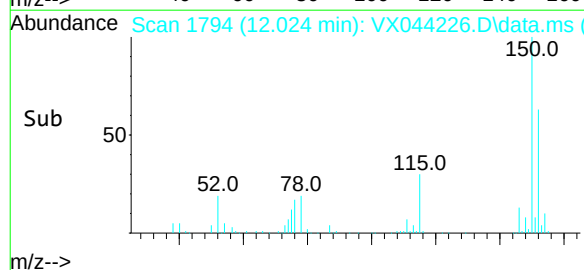
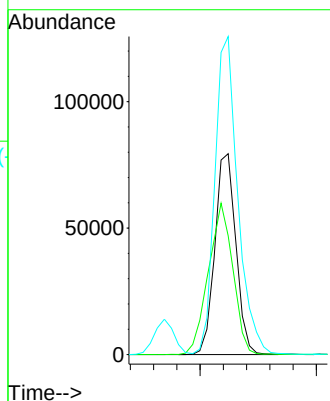
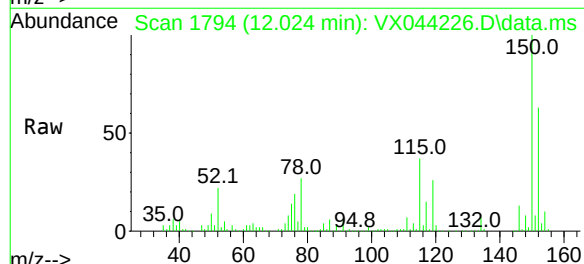
RT: 12.024 min Scan# 1794

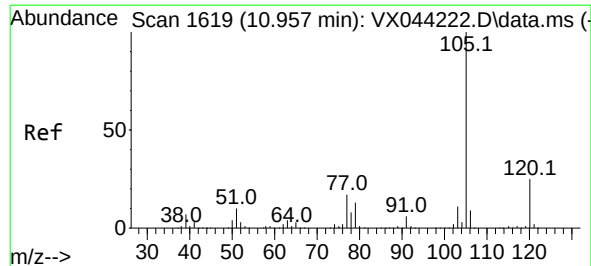
Delta R.T. 0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Tgt Ion:	152	Resp:	99879
Ion Ratio	Lower	Upper	
152	100		
115	87.8	44.5	133.3
150	172.2	0.0	353.8





#73

Isopropylbenzene

Concen: 49.014 ug/l

RT: 10.963 min Scan# 1619

Delta R.T. 0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion:105 Resp: 374769

Ion Ratio Lower Upper

105 100

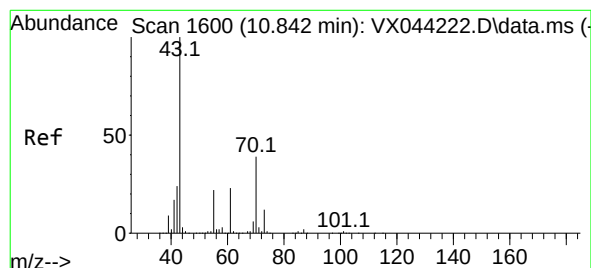
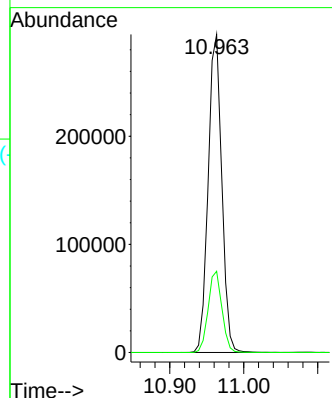
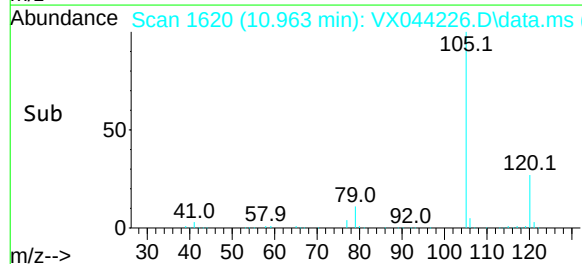
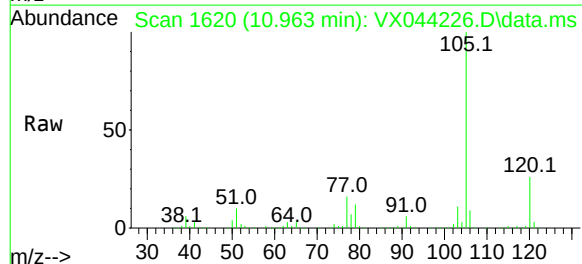
120 25.9 13.1 39.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#74

N-ethyl acetate

Concen: 52.003 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 183763

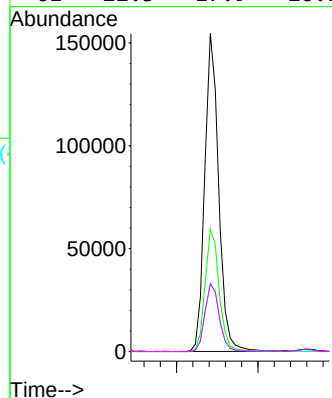
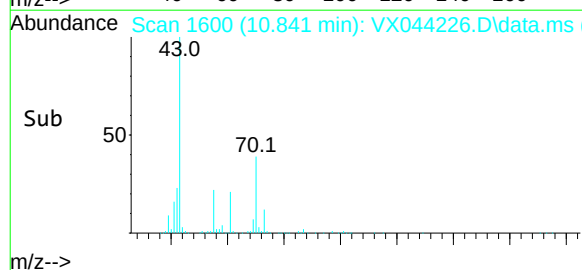
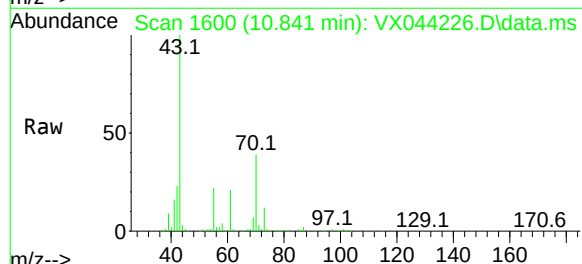
Ion Ratio Lower Upper

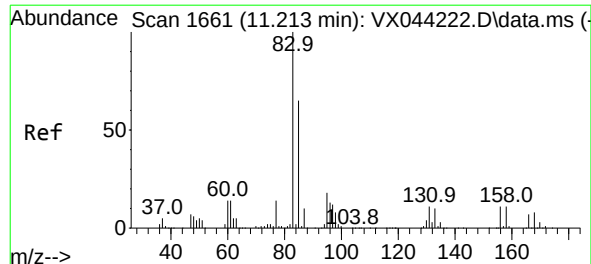
43 100

70 39.0 31.9 47.9

55 22.4 17.9 26.9

61 22.3 17.9 26.9





#75

1,1,2,2-Tetrachloroethane

Concen: 47.676 ug/l

RT: 11.213 min Scan# 1661

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

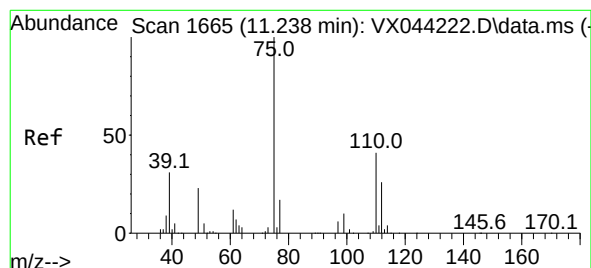
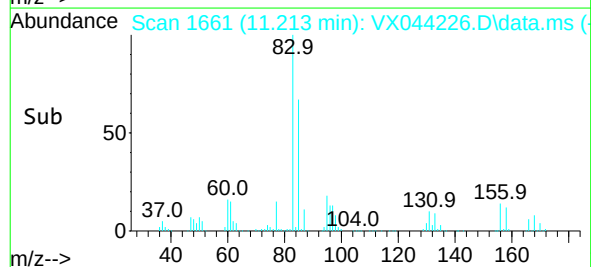
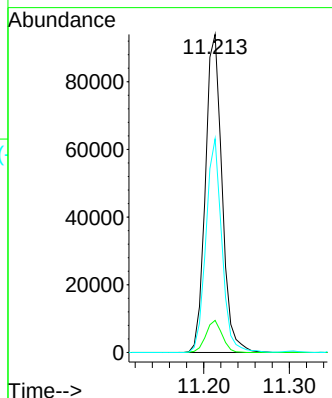
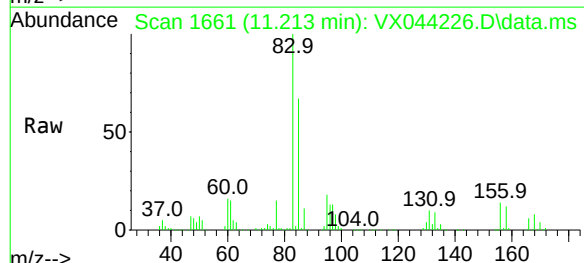
ClientSampleId :

ICVX121124

Tgt Ion:	83	Resp:	126615
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	64.4	32.5	97.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#76

1,2,3-Trichloropropane

Concen: 46.544 ug/l m

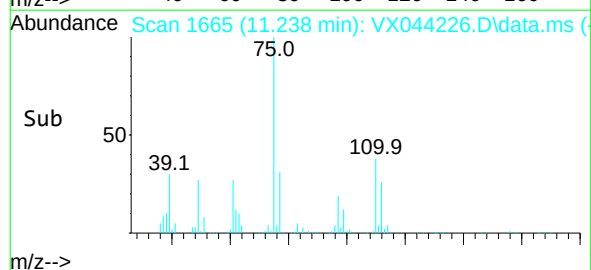
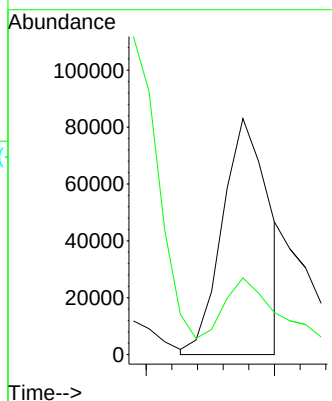
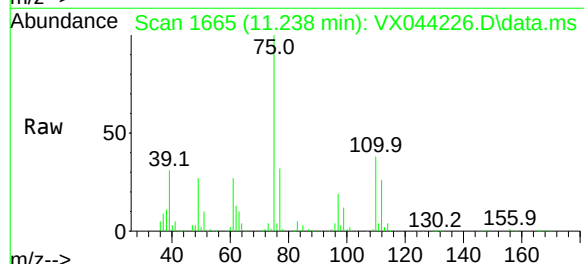
RT: 11.238 min Scan# 1665

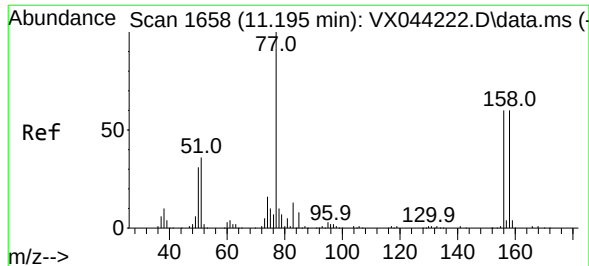
Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Tgt Ion:	75	Resp:	103796
Ion	Ratio	Lower	Upper
75	100		
77	43.4	20.9	62.7





#77

Bromobenzene

Concen: 47.335 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVWX121124

Tgt Ion:156 Resp: 87767

Ion Ratio Lower Upper

156 100

77 163.4 82.6 247.8

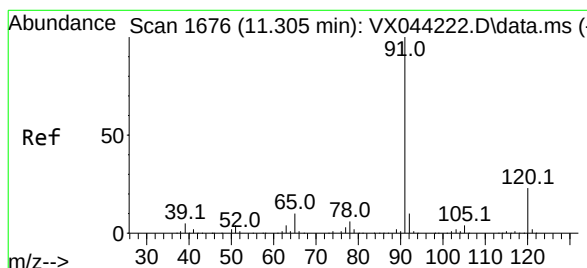
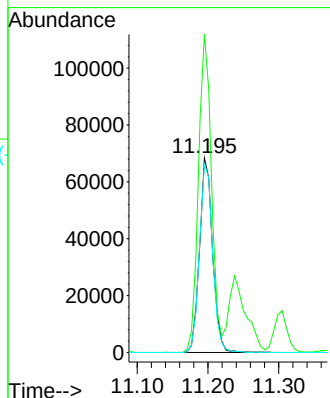
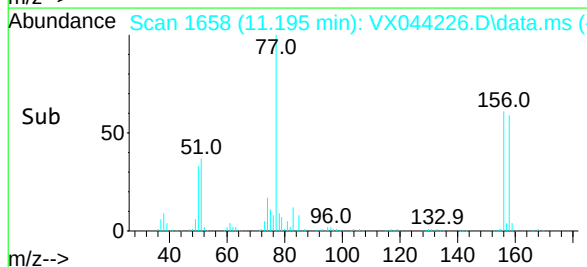
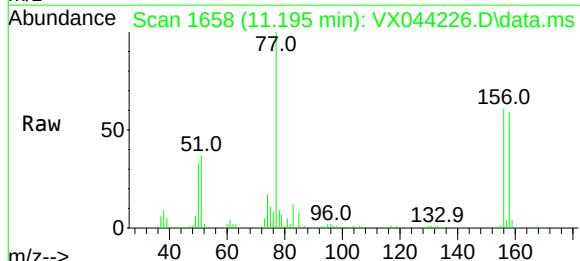
158 98.0 48.8 146.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#78

n-propylbenzene

Concen: 50.816 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. -0.000 min

Lab File: VX044226.D

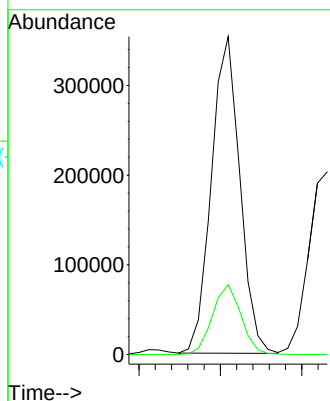
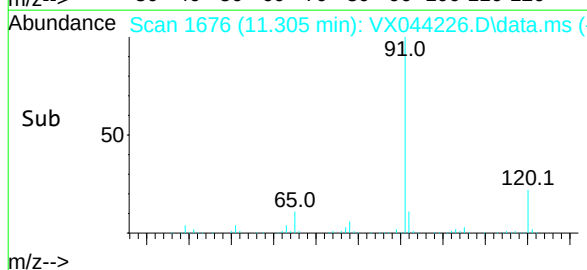
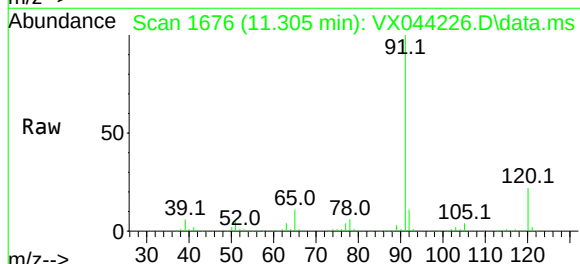
Acq: 11 Dec 2024 13:51

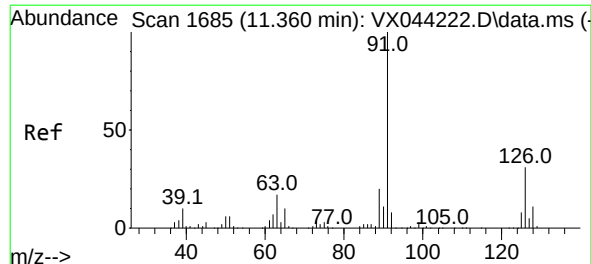
Tgt Ion: 91 Resp: 429443

Ion Ratio Lower Upper

91 100

120 22.3 11.0 33.0





#79

2-Chlorotoluene

Concen: 47.546 ug/l

RT: 11.366 min Scan# 1685

Delta R.T. 0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion: 91 Resp: 259866

Ion Ratio Lower Upper

91 100

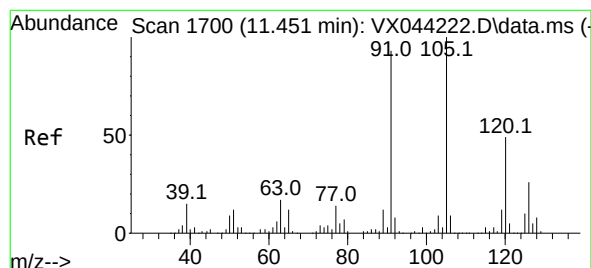
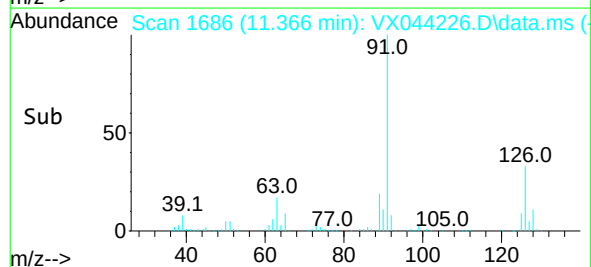
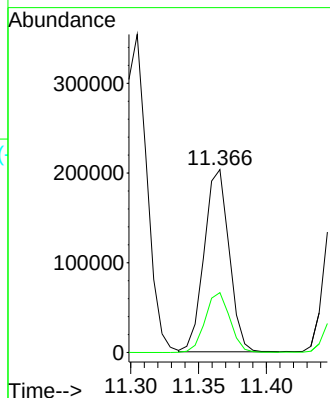
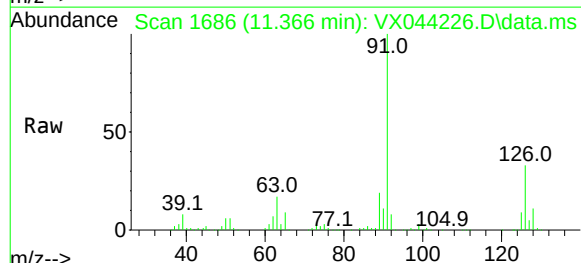
126 32.7 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#80

1,3,5-Trimethylbenzene

Concen: 49.431 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX044226.D

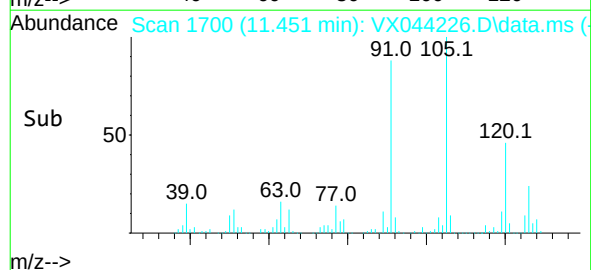
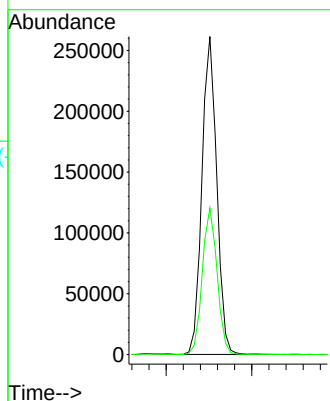
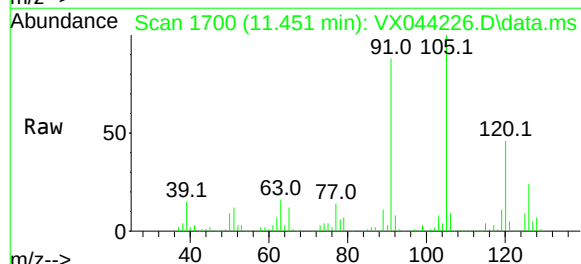
Acq: 11 Dec 2024 13:51

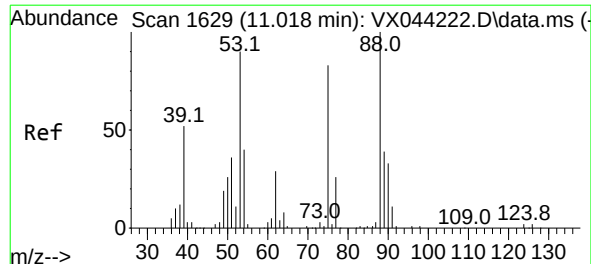
Tgt Ion:105 Resp: 313435

Ion Ratio Lower Upper

105 100

120 46.2 23.8 71.4





#81

trans-1,4-Dichloro-2-butene

Concen: 47.861 ug/l

RT: 11.018 min Scan# 1629

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion: 75 Resp: 37038

Ion Ratio Lower Upper

75 100

53 112.6 93.6 140.4

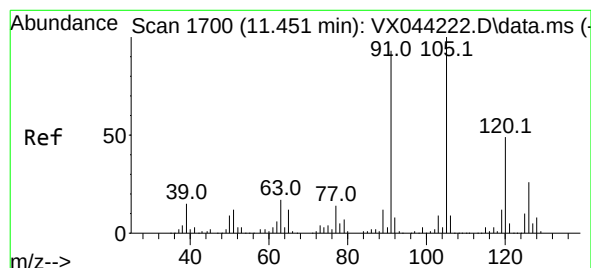
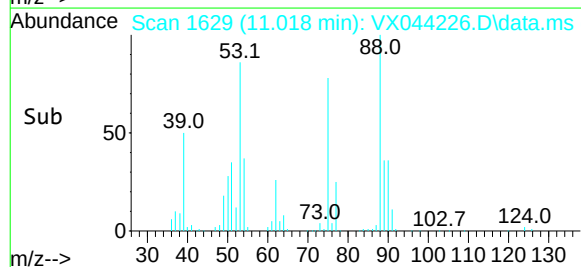
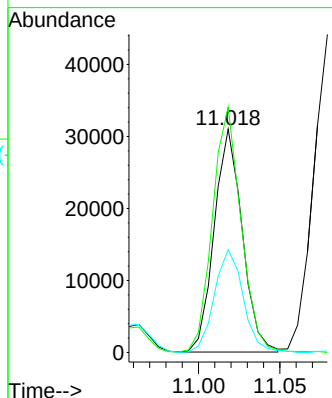
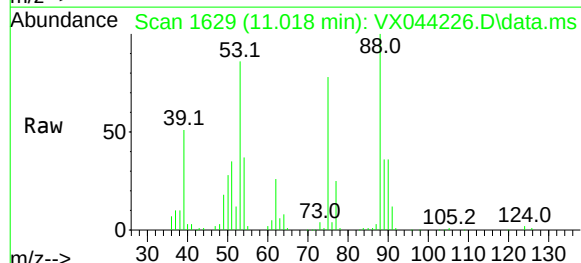
89 47.5 37.3 55.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#82

4-Chlorotoluene

Concen: 49.178 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX044226.D

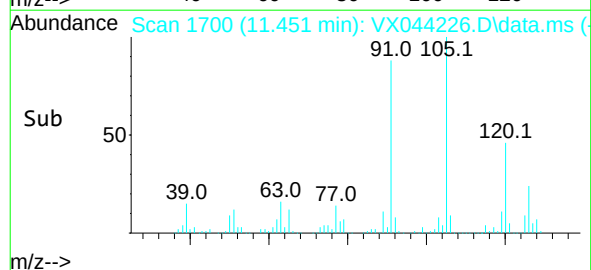
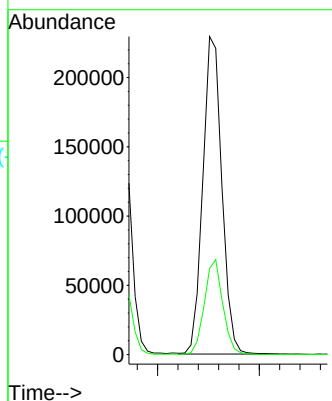
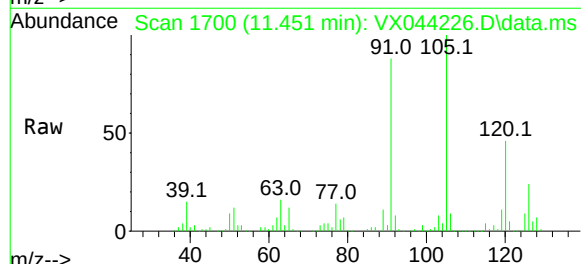
Acq: 11 Dec 2024 13:51

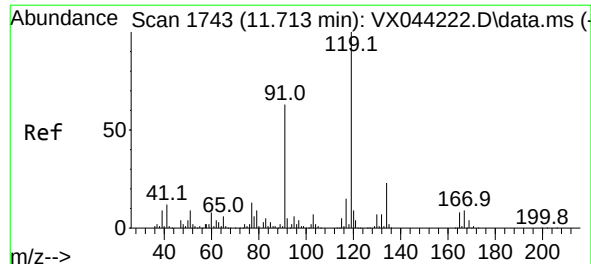
Tgt Ion: 91 Resp: 297641

Ion Ratio Lower Upper

91 100

126 29.1 14.5 43.5





#83

tert-Butylbenzene

Concen: 49.384 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion:119 Resp: 309463

Ion Ratio Lower Upper

119 100

91 62.1 30.9 92.5

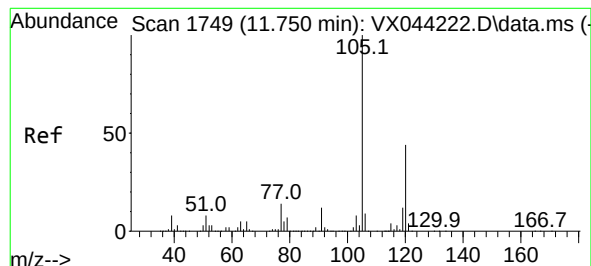
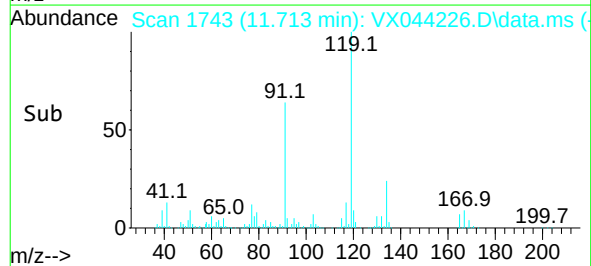
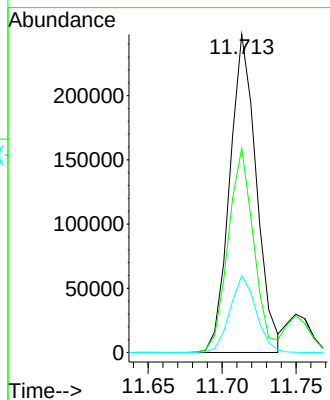
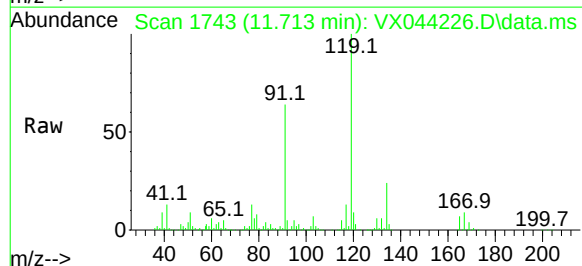
134 23.6 11.5 34.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#84

1,2,4-Trimethylbenzene

Concen: 50.333 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX044226.D

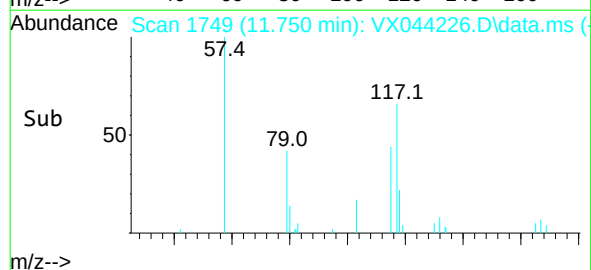
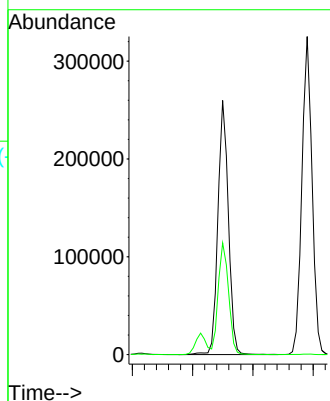
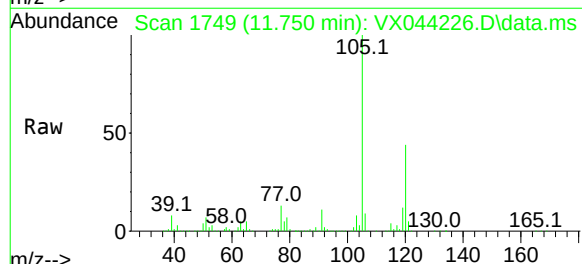
Acq: 11 Dec 2024 13:51

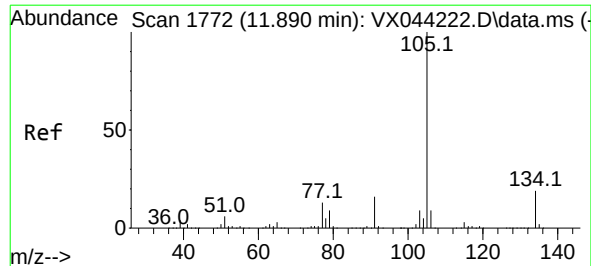
Tgt Ion:105 Resp: 313433

Ion Ratio Lower Upper

105 100

120 43.3 21.7 65.1





#85

sec-Butylbenzene

Concen: 50.097 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion:105 Resp: 381109

Ion Ratio Lower Upper

105 100

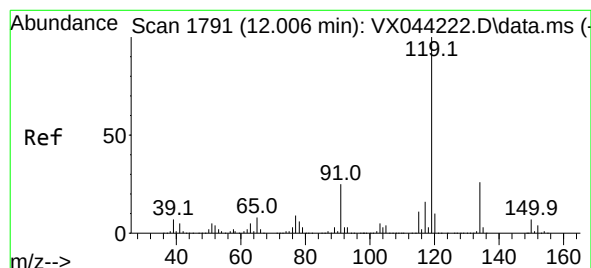
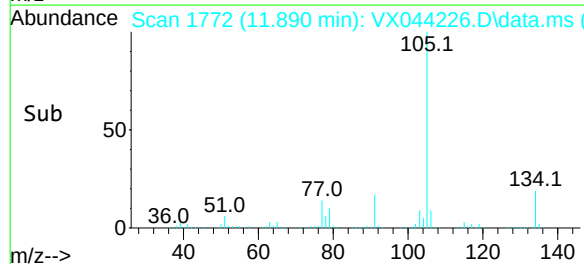
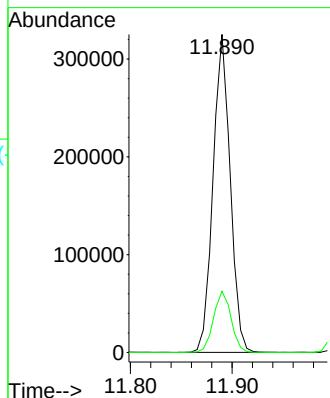
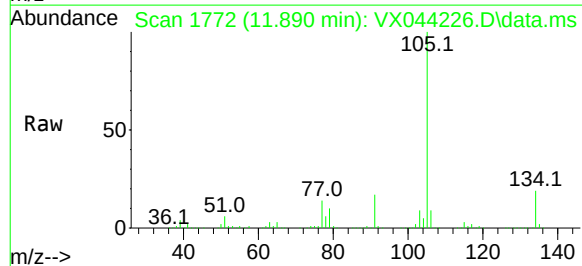
134 19.8 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#86

p-Isopropyltoluene

Concen: 50.678 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

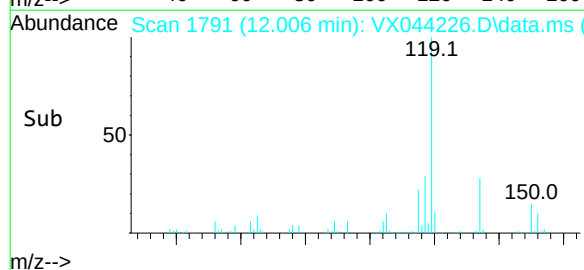
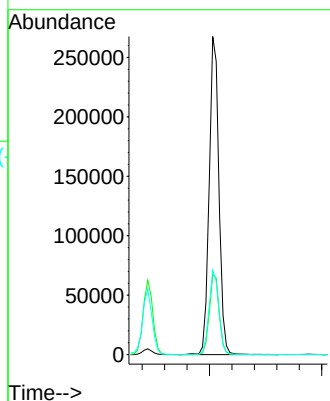
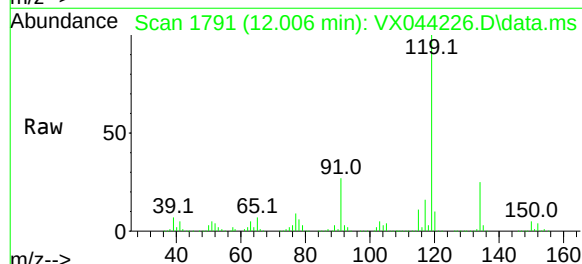
Tgt Ion:119 Resp: 320882

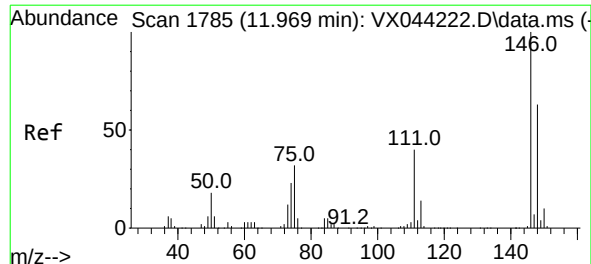
Ion Ratio Lower Upper

119 100

134 25.7 12.8 38.4

91 26.3 13.0 39.0





#87

1,3-Dichlorobenzene

Concen: 49.122 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion:146 Resp: 159094

Ion Ratio Lower Upper

146 100

111 41.6 21.4 64.2

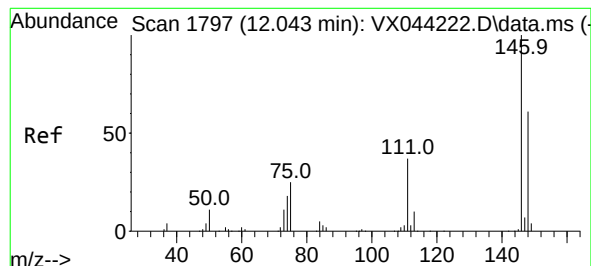
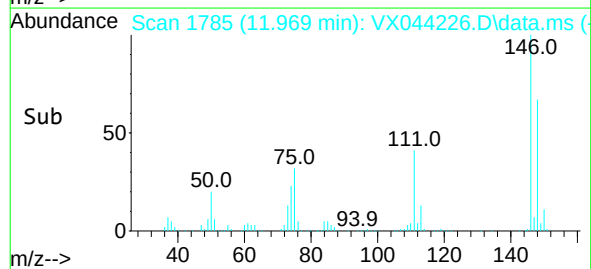
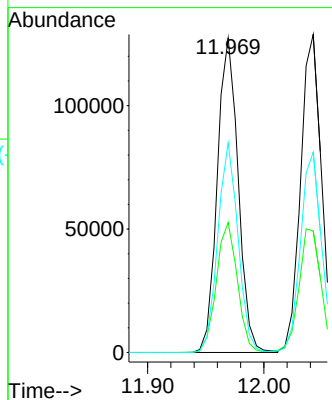
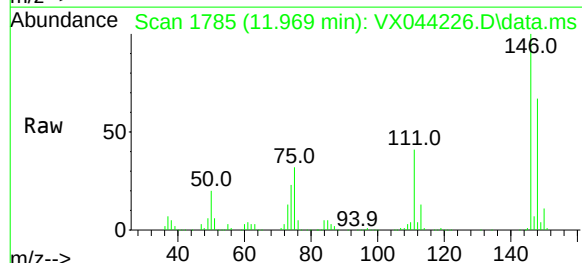
148 64.7 31.7 95.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#88

1,4-Dichlorobenzene

Concen: 48.280 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

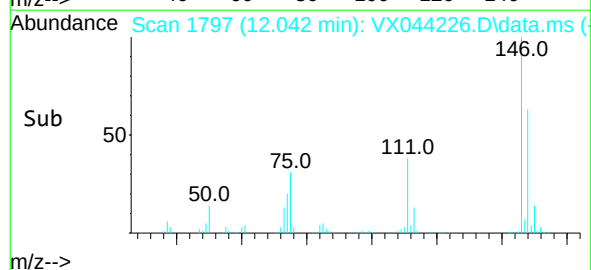
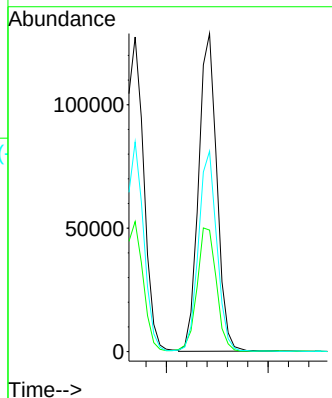
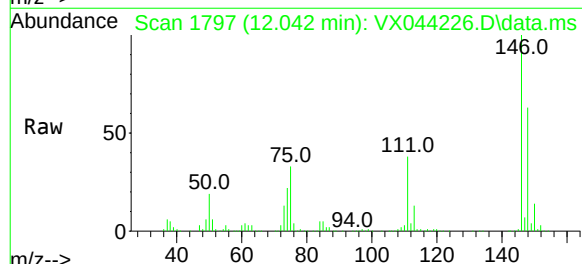
Tgt Ion:146 Resp: 160742

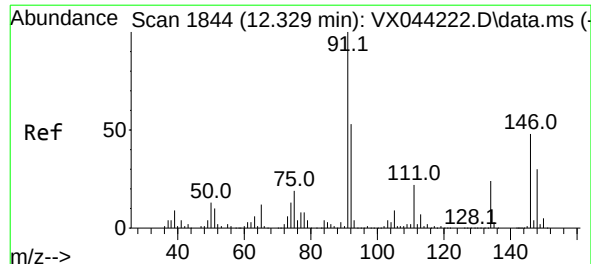
Ion Ratio Lower Upper

146 100

111 41.1 21.0 63.0

148 63.6 32.3 96.8





#89

n-Butylbenzene

Concen: 53.207 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion: 91 Resp: 283284

Ion Ratio Lower Upper

91 100

92 53.6 26.6 79.7

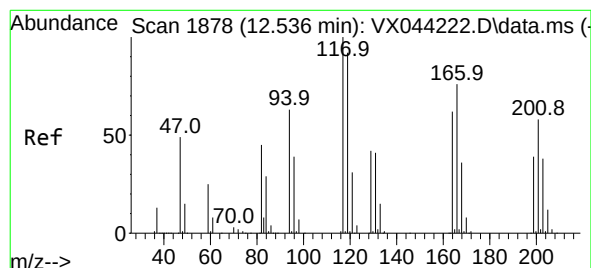
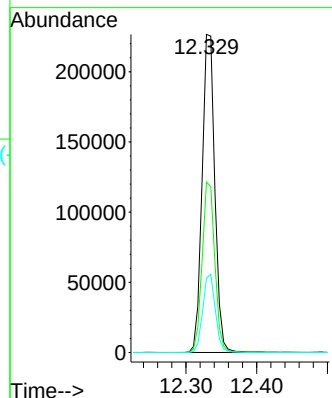
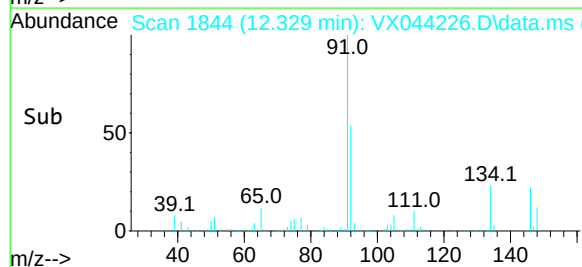
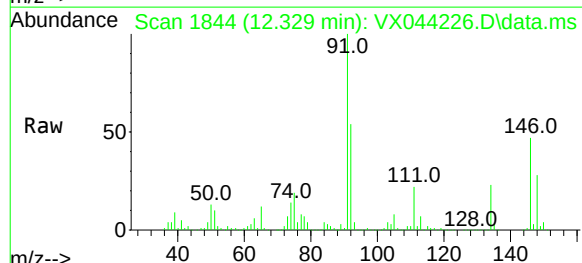
134 24.3 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#90

Hexachloroethane

Concen: 52.727 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX044226.D

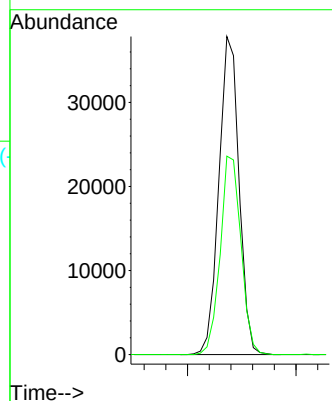
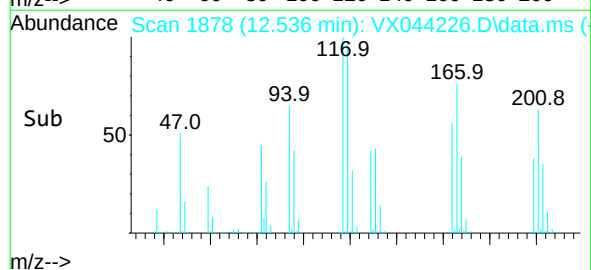
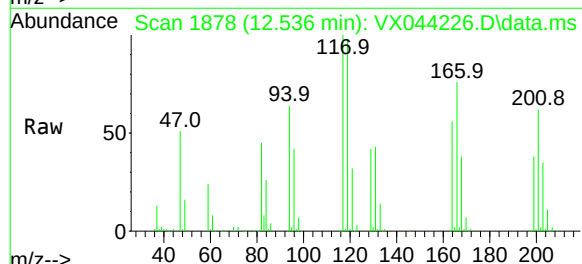
Acq: 11 Dec 2024 13:51

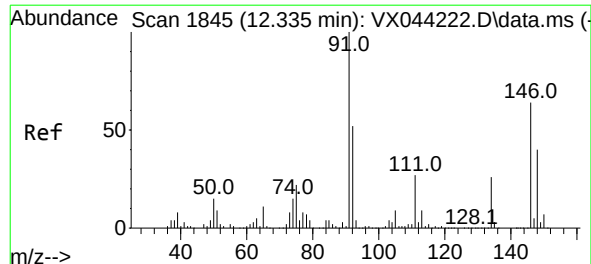
Tgt Ion:117 Resp: 48734

Ion Ratio Lower Upper

117 100

201 64.3 31.4 94.2





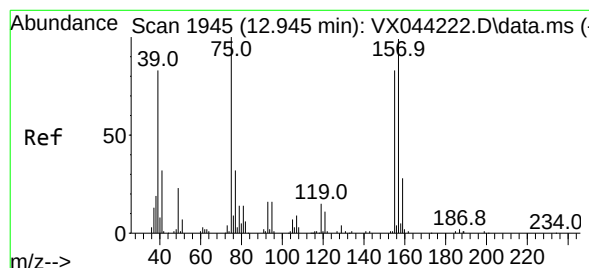
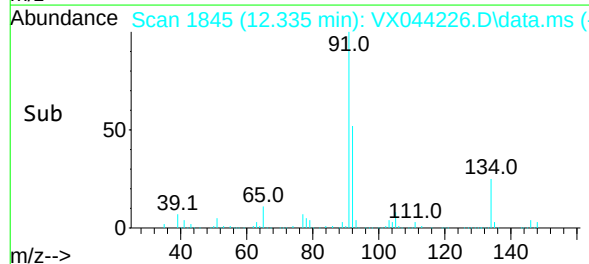
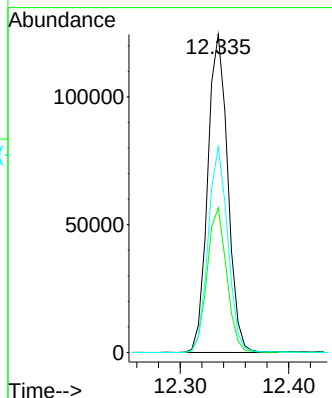
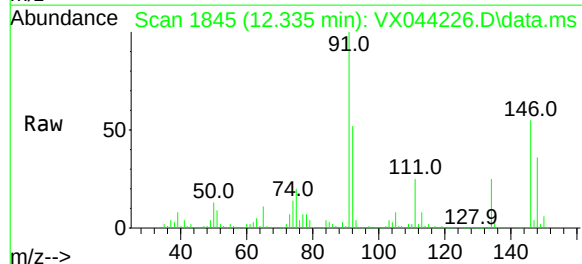
#91
1,2-Dichlorobenzene
Concen: 47.589 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVX121124

Tgt Ion: 146 Resp: 160039
Ion Ratio Lower Upper
146 100
111 44.4 21.4 64.3
148 63.4 31.6 95.0

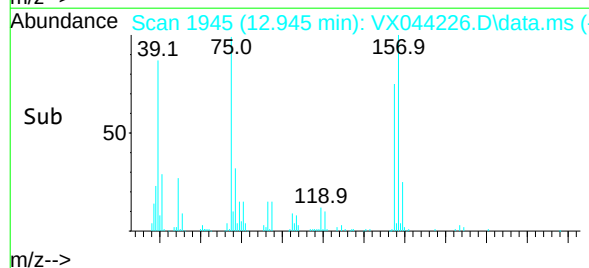
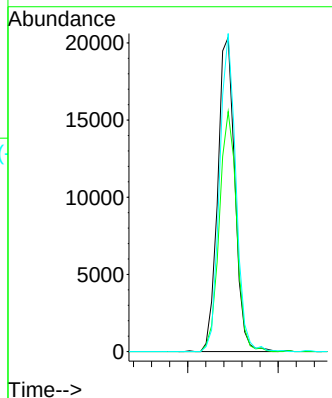
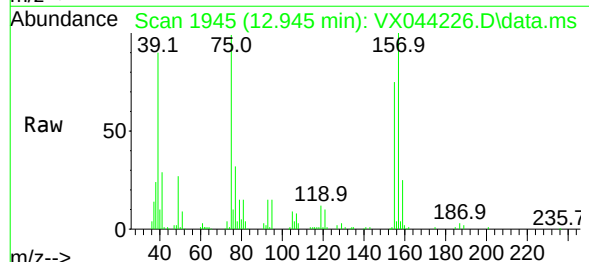
Manual Integrations
APPROVED

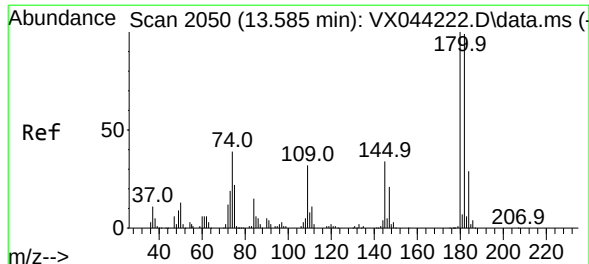
Reviewed By : John Carlone 12/12/2024
Supervised By : Mahesh Dadoda 12/12/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 51.864 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 26738
Ion Ratio Lower Upper
75 100
155 76.5 38.1 114.3
157 96.3 47.2 141.6





#93

1,2,4-Trichlorobenzene

Concen: 53.940 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

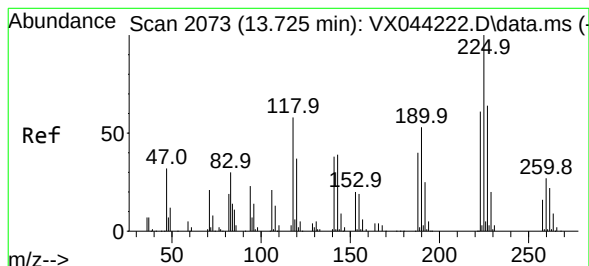
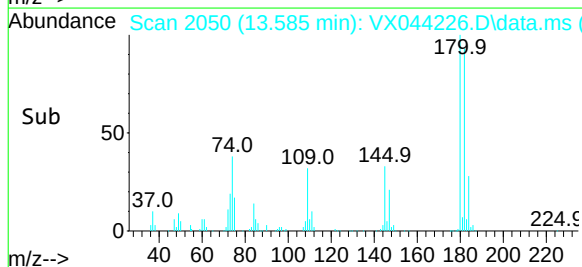
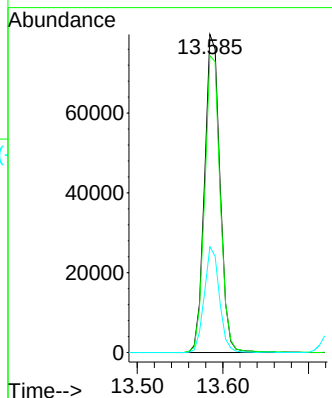
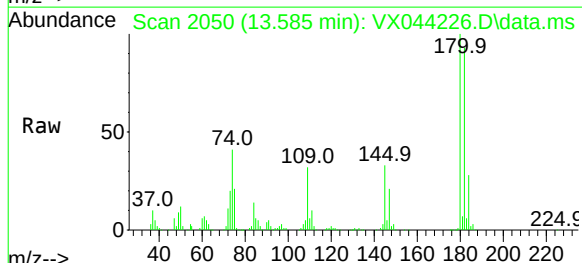
ClientSampleId :

ICVX121124

Tgt Ion:	180	Resp:	99449
Ion Ratio	Lower	Upper	
180	100		
182	94.3	48.0	144.2
145	32.6	16.6	49.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#94

Hexachlorobutadiene

Concen: 50.770 ug/l

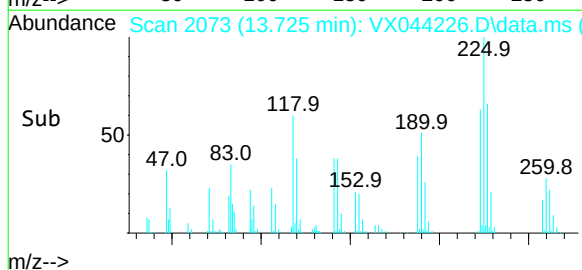
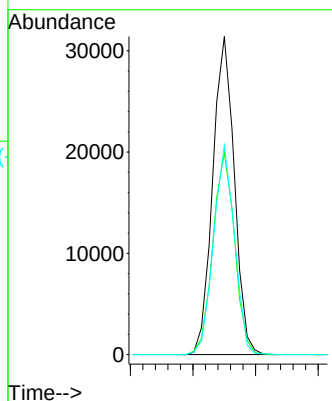
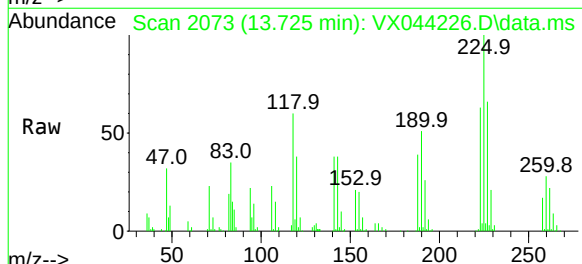
RT: 13.725 min Scan# 2073

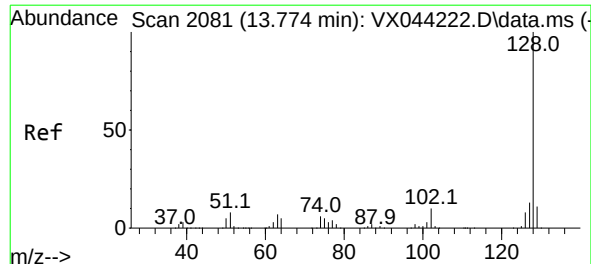
Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Tgt Ion:	225	Resp:	37651
Ion Ratio	Lower	Upper	
225	100		
223	63.9	30.8	92.4
227	63.7	32.1	96.3





#95

Naphthalene

Concen: 50.827 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

Tgt Ion:128 Resp: 365781

Ion Ratio Lower Upper

128 100

127 13.2 10.5 15.7

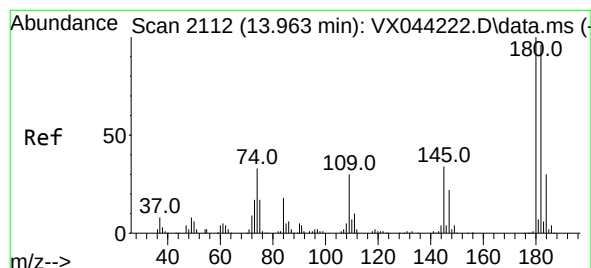
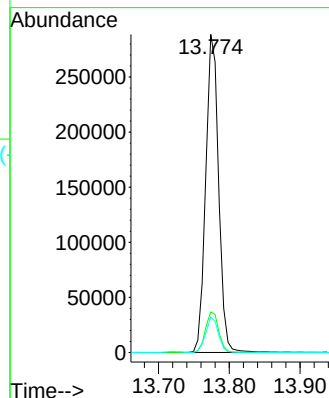
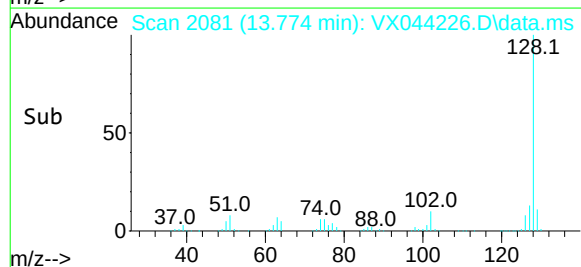
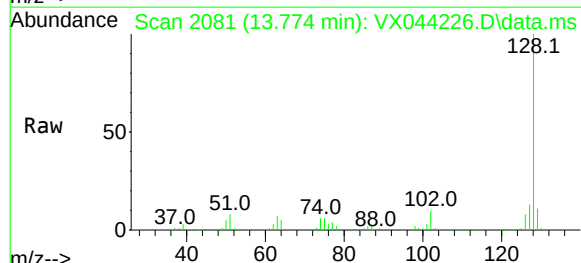
129 10.9 9.0 13.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/12/2024

Supervised By :Mahesh Dadoda 12/12/2024



#96

1,2,3-Trichlorobenzene

Concen: 51.244 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

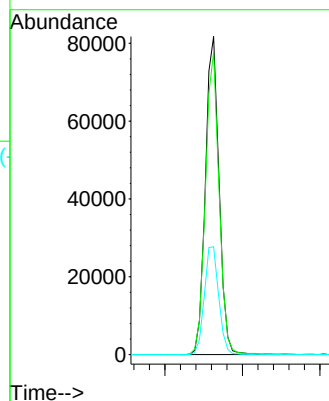
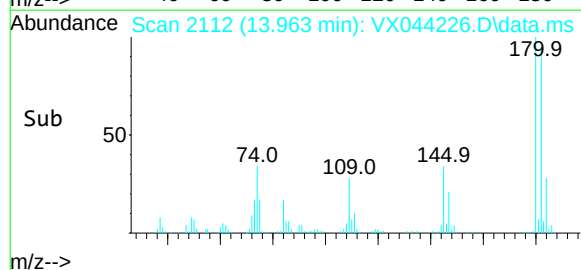
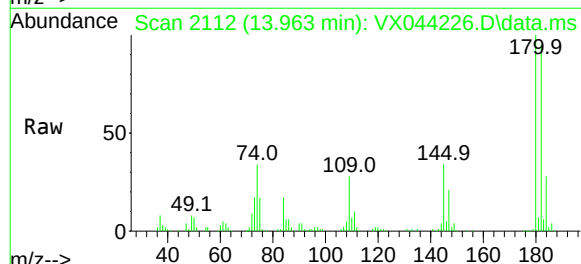
Tgt Ion:180 Resp: 100209

Ion Ratio Lower Upper

180 100

182 95.2 48.0 144.0

145 35.7 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	107	0.00
2 T	Dichlorodifluoromethane	0.773	0.779	-0.8	106	0.00
3 P	Chloromethane	0.739	0.690	6.6	98	0.00
4 C	Vinyl Chloride	0.770	0.728	5.5#	99	0.00
5 T	Bromomethane	0.546	0.502	8.1	97	0.00
6 T	Chloroethane	0.480	0.468	2.5	94	0.00
7 T	Trichlorofluoromethane	1.508	1.517	-0.6	105	0.00
8 T	Diethyl Ether	0.515	0.470	8.7	98	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.610	0.615	-0.8	107	0.00
10 T	Methyl Iodide	0.804	0.745	7.3	94	0.00
11 T	Tert butyl alcohol	0.124	0.115	7.3	102	0.00
12 CM	1,1-Dichloroethene	0.560	0.553	1.3#	99	0.00
13 T	Acrolein	0.179	0.167	6.7	96	0.00
14 T	Allyl chloride	0.933	0.929	0.4	98	0.00
15 T	Acrylonitrile	0.342	0.329	3.8	98	0.00
16 T	Acetone	0.357	0.388	-8.7	109	0.00
17 T	Carbon Disulfide	1.065	1.116	-4.8	104	0.00
18 T	Methyl Acetate	0.922	0.861	6.6	96	0.00
19 T	Methyl tert-butyl Ether	2.187	2.097	4.1	97	0.00
20 T	Methylene Chloride	0.671	0.620	7.6	96	0.00
21 T	trans-1,2-Dichloroethene	0.596	0.577	3.2	100	0.00
22 T	Diisopropyl ether	2.102	1.973	6.1	97	0.00
23 T	Vinyl Acetate	1.709	1.767	-3.4	99	0.00
24 P	1,1-Dichloroethane	1.172	1.126	3.9	97	0.00
25 T	2-Butanone	0.508	0.516	-1.6	100	0.00
26 T	2,2-Dichloropropane	0.952	1.045	-9.8	107	0.00
27 T	cis-1,2-Dichloroethene	0.756	0.707	6.5	98	0.00
28 T	Bromochloromethane	0.575	0.515	10.4	93	0.00
29 T	Tetrahydrofuran	0.326	0.311	4.6	98	0.00
30 C	Chloroform	1.316	1.217	7.5#	97	0.00
31 T	Cyclohexane	0.946	0.936	1.1	102	0.00
32 T	1,1,1-Trichloroethane	1.093	1.090	0.3	99	0.00
33 S	1,2-Dichloroethane-d4	0.877	0.800	8.8	93	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
35 S	Dibromofluoromethane	0.346	0.327	5.5	91	0.00
36 T	1,1-Dichloropropene	0.448	0.450	-0.4	103	0.00
37 T	Ethyl Acetate	0.553	0.577	-4.3	101	0.00
38 T	Carbon Tetrachloride	0.482	0.499	-3.5	101	0.00
39 T	Methylcyclohexane	0.535	0.586	-9.5	107	0.00
40 TM	Benzene	1.359	1.333	1.9	96	0.00
41 T	Methacrylonitrile	0.294	0.288	2.0	97	0.00
42 TM	1,2-Dichloroethane	0.560	0.559	0.2	97	0.00
43 T	Isopropyl Acetate	0.865	0.893	-3.2	99	0.00
44 TM	Trichloroethene	0.339	0.337	0.6	98	0.00
45 C	1,2-Dichloropropane	0.347	0.330	4.9#	94	0.00
46 T	Dibromomethane	0.269	0.276	-2.6	98	0.00
47 T	Bromodichloromethane	0.465	0.492	-5.8	98	0.00
48 T	Methyl methacrylate	0.420	0.427	-1.7	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
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Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
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ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	0.007	0.006	14.3	87	0.00
50 S	Toluene-d8	1.168	1.144	2.1	93	0.00
51 T	4-Methyl-2-Pentanone	0.556	0.567	-2.0	98	0.00
52 CM	Toluene	0.853	0.840	1.5#	97	0.00
53 T	t-1,3-Dichloropropene	0.455	0.509	-11.9	101	0.00
54 T	cis-1,3-Dichloropropene	0.507	0.543	-7.1	97	0.00
55 T	1,1,2-Trichloroethane	0.339	0.343	-1.2	97	0.00
56 T	Ethyl methacrylate	0.535	0.566	-5.8	100	0.00
57 T	1,3-Dichloropropane	0.590	0.580	1.7	96	0.00
58 T	2-Chloroethyl Vinyl ether	0.270	0.280	-3.7	97	0.00
59 T	2-Hexanone	0.403	0.438	-8.7	101	0.00
60 T	Dibromochloromethane	0.326	0.352	-8.0	97	0.00
61 T	1,2-Dibromoethane	0.345	0.358	-3.8	99	0.00
62 S	4-Bromofluorobenzene	0.408	0.409	-0.2	94	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
64 T	Tetrachloroethene	0.332	0.317	4.5	101	0.00
65 PM	Chlorobenzene	1.071	1.031	3.7	97	0.00
66 T	1,1,1,2-Tetrachloroethane	0.344	0.354	-2.9	97	0.00
67 C	Ethyl Benzene	1.851	1.831	1.1#	98	0.00
68 T	m/p-Xylenes	0.679	0.679	0.0	98	0.00
69 T	o-Xylene	0.687	0.684	0.4	100	0.00
70 T	Styrene	1.102	1.137	-3.2	100	0.00
71 P	Bromoform	0.219	0.242	-10.5	101	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
73 T	Isopropylbenzene	3.828	3.752	2.0	101	0.00
74 T	N-amyl acetate	1.769	1.840	-4.0	101	0.00
75 P	1,1,2,2-Tetrachloroethane	1.329	1.268	4.6	100	0.00
76 T	1,2,3-Trichloropropane	1.116	1.039	6.9	97	0.00
77 T	Bromobenzene	0.928	0.879	5.3	98	0.00
78 T	n-propylbenzene	4.231	4.300	-1.6	100	0.00
79 T	2-Chlorotoluene	2.736	2.602	4.9	98	0.00
80 T	1,3,5-Trimethylbenzene	3.174	3.138	1.1	100	0.00
81 T	trans-1,4-Dichloro-2-butene	0.347	0.371	-6.9	105	0.00
82 T	4-Chlorotoluene	3.030	2.980	1.7	100	0.00
83 T	tert-Butylbenzene	3.137	3.098	1.2	100	0.00
84 T	1,2,4-Trimethylbenzene	3.117	3.138	-0.7	100	0.00
85 T	sec-Butylbenzene	3.808	3.816	-0.2	100	0.00
86 T	p-Isopropyltoluene	3.170	3.213	-1.4	101	0.00
87 T	1,3-Dichlorobenzene	1.621	1.593	1.7	99	0.00
88 T	1,4-Dichlorobenzene	1.667	1.609	3.5	101	0.00
89 T	n-Butylbenzene	2.665	2.836	-6.4	105	0.00
90 T	Hexachloroethane	0.463	0.488	-5.4	101	0.00
91 T	1,2-Dichlorobenzene	1.683	1.602	4.8	97	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.258	0.268	-3.9	103	0.00
93 T	1,2,4-Trichlorobenzene	0.923	0.996	-7.9	107	0.00
94 T	Hexachlorobutadiene	0.371	0.377	-1.6	107	0.00
95 T	Naphthalene	3.603	3.662	-1.6	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	0.979	1.003	-2.5	103	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
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Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
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ClientSampleId :
ICVVX121124

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Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	107	0.00
2 T	Dichlorodifluoromethane	50.000	50.390	-0.8	106	0.00
3 P	Chloromethane	50.000	46.681	6.6	98	0.00
4 C	Vinyl Chloride	50.000	47.260	5.5#	99	0.00
5 T	Bromomethane	50.000	45.926	8.1	97	0.00
6 T	Chloroethane	50.000	48.801	2.4	94	0.00
7 T	Trichlorofluoromethane	50.000	50.311	-0.6	105	0.00
8 T	Diethyl Ether	50.000	45.658	8.7	98	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	50.374	-0.7	107	0.00
10 T	Methyl Iodide	50.000	46.349	7.3	94	0.00
11 T	Tert butyl alcohol	250.000	233.680	6.5	102	0.00
12 CM	1,1-Dichloroethene	50.000	49.311	1.4#	99	0.00
13 T	Acrolein	250.000	233.162	6.7	96	0.00
14 T	Allyl chloride	50.000	49.744	0.5	98	0.00
15 T	Acrylonitrile	250.000	240.620	3.8	98	0.00
16 T	Acetone	250.000	271.312	-8.5	109	0.00
17 T	Carbon Disulfide	50.000	52.397	-4.8	104	0.00
18 T	Methyl Acetate	50.000	46.725	6.5	96	0.00
19 T	Methyl tert-butyl Ether	50.000	47.940	4.1	97	0.00
20 T	Methylene Chloride	50.000	46.170	7.7	96	0.00
21 T	trans-1,2-Dichloroethene	50.000	48.459	3.1	100	0.00
22 T	Diisopropyl ether	50.000	46.922	6.2	97	0.00
23 T	Vinyl Acetate	250.000	258.510	-3.4	99	0.00
24 P	1,1-Dichloroethane	50.000	48.056	3.9	97	0.00
25 T	2-Butanone	250.000	253.747	-1.5	100	0.00
26 T	2,2-Dichloropropane	50.000	54.872	-9.7	107	0.00
27 T	cis-1,2-Dichloroethene	50.000	46.709	6.6	98	0.00
28 T	Bromochloromethane	50.000	44.832	10.3	93	0.00
29 T	Tetrahydrofuran	250.000	238.031	4.8	98	0.00
30 C	Chloroform	50.000	46.235	7.5#	97	0.00
31 T	Cyclohexane	50.000	49.443	1.1	102	0.00
32 T	1,1,1-Trichloroethane	50.000	49.895	0.2	99	0.00
33 S	1,2-Dichloroethane-d4	50.000	45.646	8.7	93	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	102	0.00
35 S	Dibromofluoromethane	50.000	47.228	5.5	91	0.00
36 T	1,1-Dichloropropene	50.000	50.314	-0.6	103	0.00
37 T	Ethyl Acetate	50.000	52.176	-4.4	101	0.00
38 T	Carbon Tetrachloride	50.000	51.763	-3.5	101	0.00
39 T	Methylcyclohexane	50.000	54.761	-9.5	107	0.00
40 TM	Benzene	50.000	49.052	1.9	96	0.00
41 T	Methacrylonitrile	50.000	48.945	2.1	97	0.00
42 TM	1,2-Dichloroethane	50.000	49.960	0.1	97	0.00
43 T	Isopropyl Acetate	50.000	51.624	-3.2	99	0.00
44 TM	Trichloroethene	50.000	49.741	0.5	98	0.00
45 C	1,2-Dichloropropane	50.000	47.528	4.9#	94	0.00
46 T	Dibromomethane	50.000	51.227	-2.5	98	0.00
47 T	Bromodichloromethane	50.000	52.893	-5.8	98	0.00
48 T	Methyl methacrylate	50.000	50.852	-1.7	98	0.00

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Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	923.966	7.6	87	0.00
50 S	Toluene-d8	50.000	48.968	2.1	93	0.00
51 T	4-Methyl-2-Pentanone	250.000	255.038	-2.0	98	0.00
52 CM	Toluene	50.000	49.199	1.6#	97	0.00
53 T	t-1,3-Dichloropropene	50.000	50.864	-1.7	101	0.00
54 T	cis-1,3-Dichloropropene	50.000	53.607	-7.2	97	0.00
55 T	1,1,2-Trichloroethane	50.000	50.562	-1.1	97	0.00
56 T	Ethyl methacrylate	50.000	52.890	-5.8	100	0.00
57 T	1,3-Dichloropropane	50.000	49.165	1.7	96	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	259.586	-3.8	97	0.00
59 T	2-Hexanone	250.000	271.943	-8.8	101	0.00
60 T	Dibromochloromethane	50.000	49.073	1.9	97	0.00
61 T	1,2-Dibromoethane	50.000	51.909	-3.8	99	0.00
62 S	4-Bromofluorobenzene	50.000	50.098	-0.2	94	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	103	0.00
64 T	Tetrachloroethene	50.000	47.702	4.6	101	0.00
65 PM	Chlorobenzene	50.000	48.133	3.7	97	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	51.396	-2.8	97	0.00
67 C	Ethyl Benzene	50.000	49.461	1.1#	98	0.00
68 T	m/p-Xylenes	100.000	99.896	0.1	98	0.00
69 T	o-Xylene	50.000	49.750	0.5	100	0.00
70 T	Styrene	50.000	51.617	-3.2	100	0.00
71 P	Bromoform	50.000	50.269	-0.5	101	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	105	0.00
73 T	Isopropylbenzene	50.000	49.014	2.0	101	0.00
74 T	N-amyl acetate	50.000	52.003	-4.0	101	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	47.676	4.6	100	0.00
76 T	1,2,3-Trichloropropane	50.000	46.544	6.9	97	0.00
77 T	Bromobenzene	50.000	47.335	5.3	98	0.00
78 T	n-propylbenzene	50.000	50.816	-1.6	100	0.00
79 T	2-Chlorotoluene	50.000	47.546	4.9	98	0.00
80 T	1,3,5-Trimethylbenzene	50.000	49.431	1.1	100	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	47.861	4.3	105	0.00
82 T	4-Chlorotoluene	50.000	49.178	1.6	100	0.00
83 T	tert-Butylbenzene	50.000	49.384	1.2	100	0.00
84 T	1,2,4-Trimethylbenzene	50.000	50.333	-0.7	100	0.00
85 T	sec-Butylbenzene	50.000	50.097	-0.2	100	0.00
86 T	p-Isopropyltoluene	50.000	50.678	-1.4	101	0.00
87 T	1,3-Dichlorobenzene	50.000	49.122	1.8	99	0.00
88 T	1,4-Dichlorobenzene	50.000	48.280	3.4	101	0.00
89 T	n-Butylbenzene	50.000	53.207	-6.4	105	0.00
90 T	Hexachloroethane	50.000	52.727	-5.5	101	0.00
91 T	1,2-Dichlorobenzene	50.000	47.589	4.8	97	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	51.864	-3.7	103	0.00
93 T	1,2,4-Trichlorobenzene	50.000	53.940	-7.9	107	0.00
94 T	Hexachlorobutadiene	50.000	50.770	-1.5	107	0.00
95 T	Naphthalene	50.000	50.827	-1.7	100	0.00

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Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.244	-2.5	103	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG No.: P5314

Instrument ID: MSVOA_X Calibration Date/Time: 12/20/2024 09:16

Lab File ID: VX044438.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.739	0.782	0.1	5.82	20
Vinyl Chloride	0.770	0.798		3.64	20
Bromomethane	0.546	0.532		-2.56	20
Chloroethane	0.480	0.473		-1.46	20
Trichlorofluoromethane	1.508	1.482		-1.72	20
1,1,2-Trichlorotrifluoroethane	0.610	0.676		10.82	20
1,1-Dichloroethene	0.560	0.624		11.43	20
Acetone	0.357	0.291		-18.49	20
Carbon Disulfide	1.065	1.106		3.85	20
Methyl tert-butyl Ether	2.187	2.093		-4.3	20
Methylene Chloride	0.671	0.689		2.68	20
trans-1,2-Dichloroethene	0.596	0.625		4.87	20
1,1-Dichloroethane	1.172	1.203	0.1	2.64	20
2-Butanone	0.508	0.457		-10.04	20
Carbon Tetrachloride	0.482	0.533		10.58	20
cis-1,2-Dichloroethene	0.756	0.755		-0.13	20
Chloroform	1.316	1.265		-3.88	20
1,1,1-Trichloroethane	1.093	1.099		0.55	20
Methylcyclohexane	0.535	0.648		21.12	20
Benzene	1.359	1.529		12.51	20
1,2-Dichloroethane	0.560	0.586		4.64	20
Trichloroethene	0.339	0.388		14.45	20
1,2-Dichloropropane	0.347	0.369		6.34	20
Bromodichloromethane	0.465	0.525		12.9	20
4-Methyl-2-Pentanone	0.556	0.573		3.06	20
Toluene	0.853	0.924		8.32	20
t-1,3-Dichloropropene	0.455	0.517		13.63	20
cis-1,3-Dichloropropene	0.507	0.577		13.81	20
1,1,2-Trichloroethane	0.339	0.374		10.32	20
2-Hexanone	0.403	0.414		2.73	20
Dibromochloromethane	0.326	0.381		16.87	20
Tetrachloroethene	0.332	0.378		13.85	20
Chlorobenzene	1.071	1.187	0.3	10.83	20
Ethyl Benzene	1.851	2.034		9.89	20
m/p-Xylenes	0.679	0.780		14.88	20
o-Xylene	0.687	0.748		8.88	20
Styrene	1.102	1.275		15.7	20
Bromoform	0.219	0.266	0.1	21.46	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG No.: P5314

Instrument ID: MSVOA_X Calibration Date/Time: 12/20/2024 09:16

Lab File ID: VX044438.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.828	4.095		6.97	20
1,1,2,2-Tetrachloroethane	1.329	1.387	0.3	4.36	20
1,3-Dichlorobenzene	1.621	1.811		11.72	20
1,4-Dichlorobenzene	1.667	1.781		6.84	20
1,2-Dichlorobenzene	1.684	1.820		8.08	20
1,2-Dichloroethane-d4	0.877	0.836		-4.68	20
Dibromofluoromethane	0.346	0.392		13.3	20
Toluene-d8	1.168	1.318		12.84	20
4-Bromofluorobenzene	0.408	0.454		11.27	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_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 12/23/2024
Supervised By : Mahesh Dadoda 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	136445	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	226018	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	197543	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	95339	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.952	65	114063	47.679	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.360%
35) Dibromofluoromethane	5.379	113	88578	56.586	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	113.180%
50) Toluene-d8	8.647	98	297779	56.385	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	112.780%
62) 4-Bromofluorobenzene	11.079	95	102676	55.640	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	111.280%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	116500	55.219	ug/l	95
3) Chloromethane	1.294	50	106640	52.856	ug/l	99
4) Vinyl Chloride	1.374	62	108930	51.825	ug/l	96
5) Bromomethane	1.593	94	72530	48.640	ug/l	100
6) Chloroethane	1.666	64	64589	49.350	ug/l	100
7) Trichlorofluoromethane	1.867	101	202222	49.144	ug/l	98
8) Diethyl Ether	2.136	74	65414	46.573	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	92304	55.436	ug/l	97
10) Methyl Iodide	2.441	142	117927	53.737	ug/l	96
11) Tert butyl alcohol	2.995	59	69873	207.237	ug/l	99
12) 1,1-Dichloroethene	2.306	96	85110	55.650	ug/l	93
13) Acrolein	2.239	56	105437	216.034	ug/l	99
14) Allyl chloride	2.654	41	131432	51.595	ug/l	96
15) Acrylonitrile	3.069	53	228880	245.064	ug/l	99
16) Acetone	2.386	43	198245	203.262	ug/l	97
17) Carbon Disulfide	2.502	76	150886	51.902	ug/l	100
18) Methyl Acetate	2.703	43	122242	48.611	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	285547	47.845	ug/l	98
20) Methylene Chloride	2.782	84	94061	51.347	ug/l	96
21) trans-1,2-Dichloroethene	3.081	96	85292	52.474	ug/l	96
22) Diisopropyl ether	3.764	45	281255	49.031	ug/l	95
23) Vinyl Acetate	3.721	43	1209209	259.287	ug/l	99
24) 1,1-Dichloroethane	3.605	63	164103	51.322	ug/l	98
25) 2-Butanone	4.562	43	312065	225.066	ug/l	97
26) 2,2-Dichloropropane	4.471	77	135023	51.979	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	103072	49.931	ug/l	97
28) Bromochloromethane	4.891	49	75463	48.128	ug/l	100
29) Tetrahydrofuran	5.001	42	202559	227.599	ug/l	99
30) Chloroform	5.086	83	172568	48.035	ug/l	98
31) Cyclohexane	5.458	56	136432	52.839	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	149993	50.298	ug/l	99
36) 1,1-Dichloropropene	5.684	75	111706	55.205	ug/l	98
37) Ethyl Acetate	4.715	43	125607	50.217	ug/l	99
38) Carbon Tetrachloride	5.672	117	120478	55.304	ug/l	96
39) Methylcyclohexane	7.373	83	146379	60.512	ug/l	97
40) Benzene	6.031	78	345635	56.259	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
 Data File : VX044438.D
 Acq On : 20 Dec 2024 09:16
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:28:14 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
 Supervised By :Mahesh Dadoda 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	66821	50.310	ug/l	96
42) 1,2-Dichloroethane	6.080	62	132516	52.362	ug/l	97
43) Isopropyl Acetate	6.342	43	199677	51.076	ug/l	98
44) Trichloroethene	7.117	130	87763	57.285	ug/l	98
45) 1,2-Dichloropropane	7.427	63	83393	53.131	ug/l	98
46) Dibromomethane	7.580	93	67796	55.676	ug/l	95
47) Bromodichloromethane	7.818	83	118614	56.402	ug/l	100
48) Methyl methacrylate	7.690	41	94040	49.554	ug/l	95
49) 1,4-Dioxane	7.665	88	28510	906.120	ug/l #	82
51) 4-Methyl-2-Pentanone	8.574	43	647258	257.494	ug/l	99
52) Toluene	8.714	92	208798	54.120	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	116841	51.640	ug/l	95
54) cis-1,3-Dichloropropene	8.360	75	130320	56.913	ug/l	97
55) 1,1,2-Trichloroethane	9.147	97	84487	55.124	ug/l	98
56) Ethyl methacrylate	9.116	69	130175	53.800	ug/l	98
57) 1,3-Dichloropropane	9.305	76	143590	53.824	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	307620	252.070	ug/l	99
59) 2-Hexanone	9.427	43	467347	256.860	ug/l	97
60) Dibromochloromethane	9.519	129	86207	52.901	ug/l	99
61) 1,2-Dibromoethane	9.604	107	86930	55.721	ug/l	99
64) Tetrachloroethene	9.269	164	74735	57.001	ug/l	96
65) Chlorobenzene	10.079	112	234513	55.402	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	77487	56.959	ug/l	98
67) Ethyl Benzene	10.189	91	401792	54.936	ug/l	99
68) m/p-Xylenes	10.299	106	308013	114.771	ug/l	94
69) o-Xylene	10.640	106	147688	54.389	ug/l	98
70) Styrene	10.653	104	251875	57.862	ug/l	96
71) Bromoform	10.799	173	52602	54.671	ug/l #	98
73) Isopropylbenzene	10.957	105	390438	53.495	ug/l	100
74) N-amyl acetate	10.842	43	171638	50.885	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	132190	52.145	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	107800m	50.641	ug/l	
77) Bromobenzene	11.195	156	95489	53.953	ug/l	95
78) n-propylbenzene	11.299	91	441589	54.741	ug/l	98
79) 2-Chlorotoluene	11.360	91	267690	51.311	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	322510	53.284	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	35051	47.498	ug/l	98
82) 4-Chlorotoluene	11.451	91	305777	52.929	ug/l	99
83) tert-Butylbenzene	11.713	119	320615	53.600	ug/l	97
84) 1,2,4-Trimethylbenzene	11.750	105	327657	55.123	ug/l	98
85) sec-Butylbenzene	11.890	105	399310	54.989	ug/l	99
86) p-Isopropyltoluene	12.006	119	336593	55.691	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	172628	55.839	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	169778	53.422	ug/l	98
89) n-Butylbenzene	12.329	91	292244	57.503	ug/l	99
90) Hexachloroethane	12.536	117	50629	57.385	ug/l	94
91) 1,2-Dichlorobenzene	12.335	146	173478	54.042	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	24124	49.022	ug/l	90
93) 1,2,4-Trichlorobenzene	13.585	180	104720	59.504	ug/l	100
94) Hexachlorobutadiene	13.725	225	43140	60.942	ug/l	97
95) Naphthalene	13.774	128	369385	53.772	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	108667	58.216	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

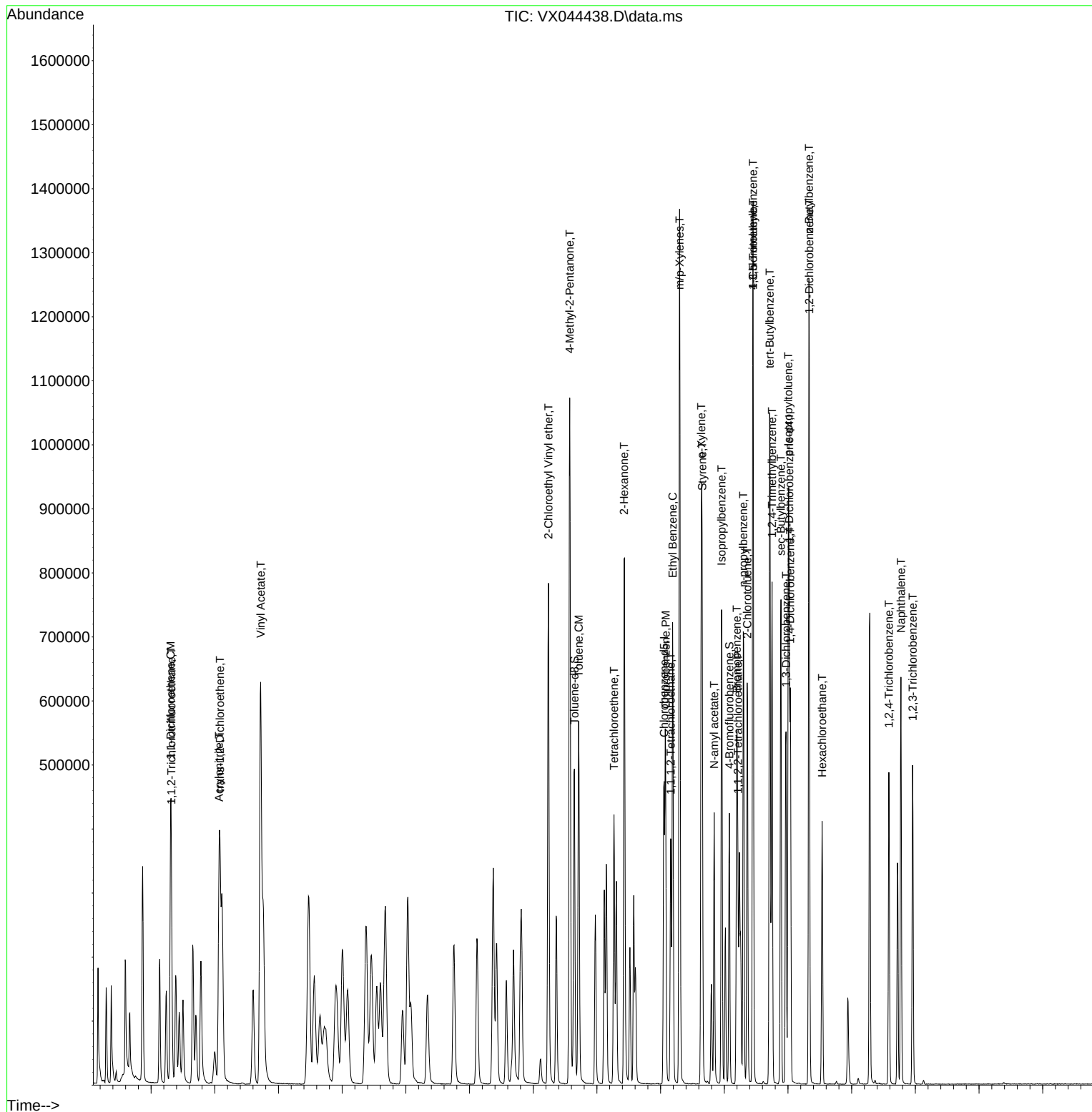
VSTDCCC050

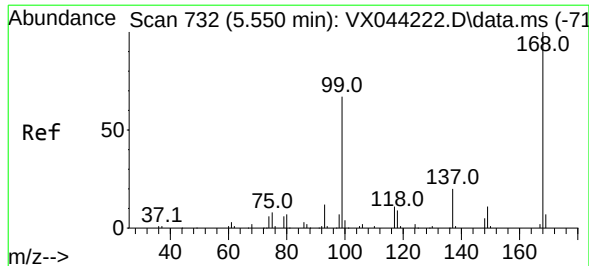
Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

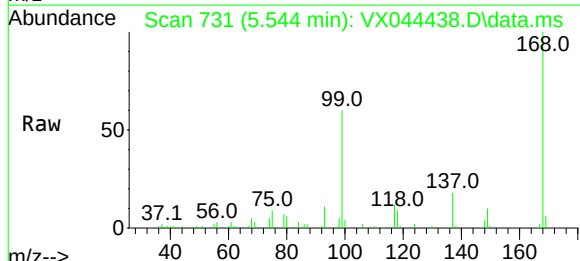
Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

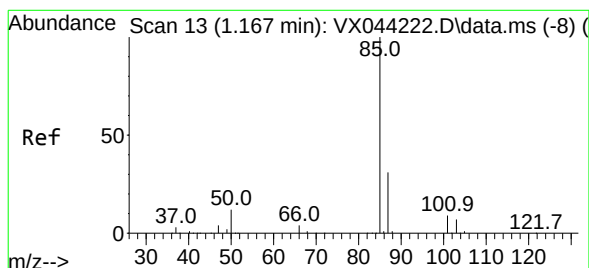
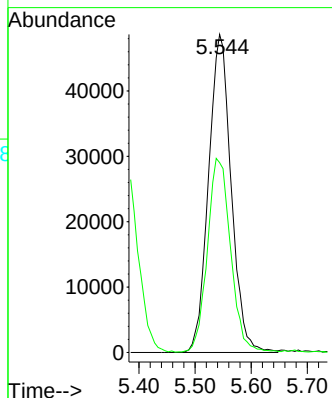
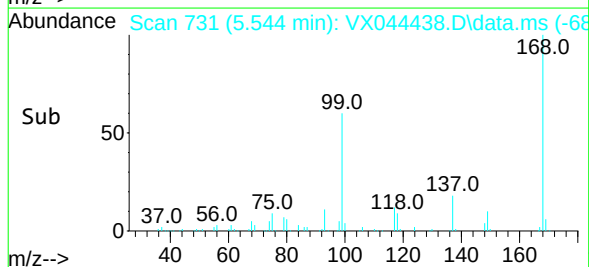
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 168 Resp: 136445
Ion Ratio Lower Upper
168 100
99 59.5 53.4 80.0

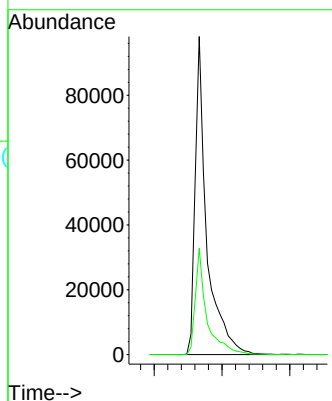
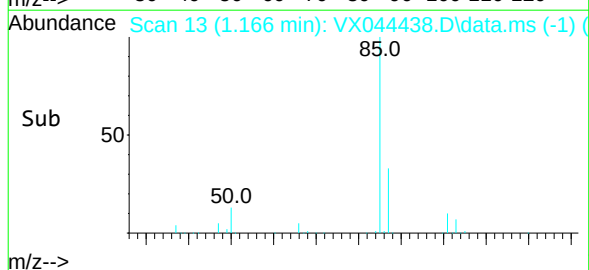
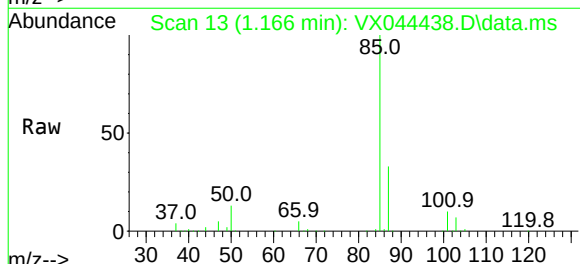
Manual Integrations
APPROVED

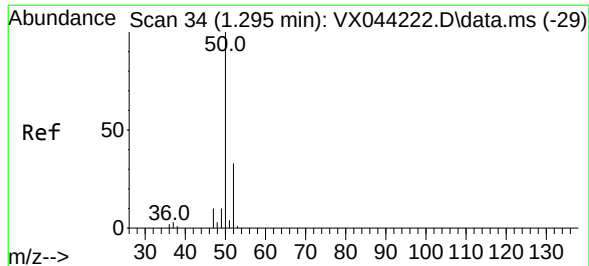
Reviewed By : Semsettin Yesilyurt 12/23/2024
Supervised By : Mahesh Dadoda 12/24/2024



#2
Dichlorodifluoromethane
Concen: 55.219 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 85 Resp: 116500
Ion Ratio Lower Upper
85 100
87 33.4 15.4 46.4





#3

Chloromethane

Concen: 52.856 ug/l

RT: 1.294 min Scan# 34

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 50 Resp: 106640

Ion Ratio Lower Upper

50 100

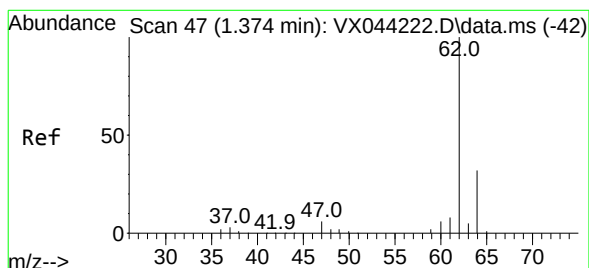
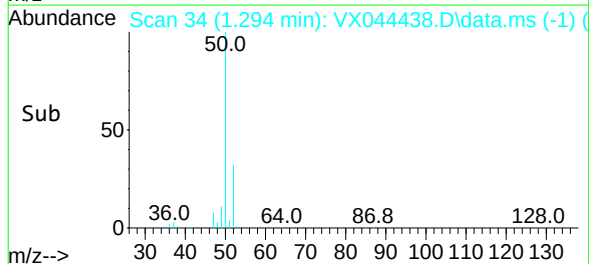
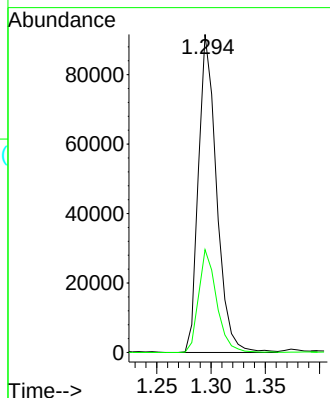
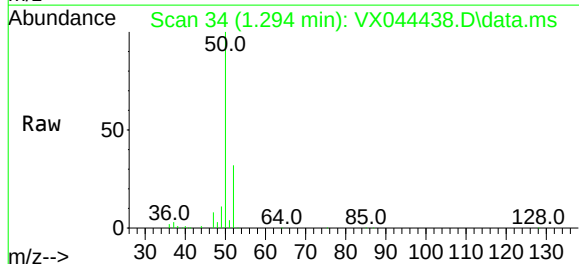
52 32.3 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#4

Vinyl Chloride

Concen: 51.825 ug/l

RT: 1.374 min Scan# 47

Delta R.T. -0.000 min

Lab File: VX044438.D

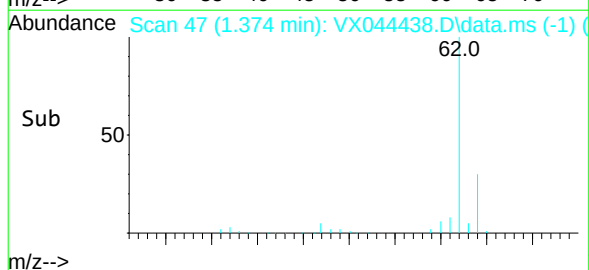
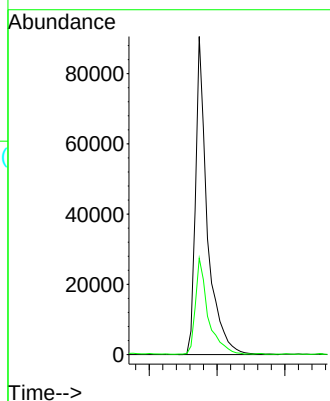
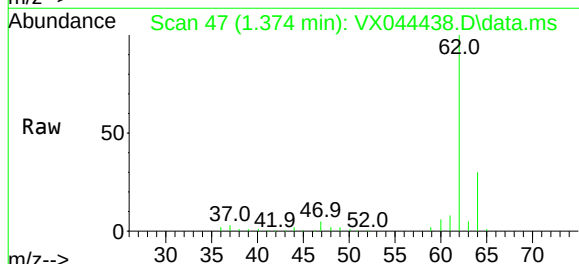
Acq: 20 Dec 2024 09:16

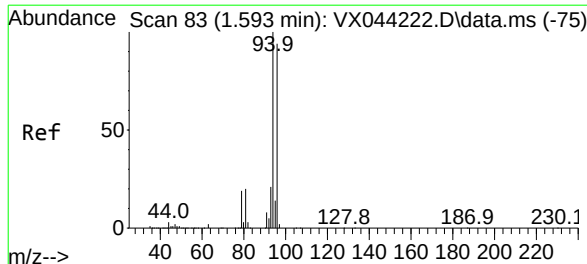
Tgt Ion: 62 Resp: 108930

Ion Ratio Lower Upper

62 100

64 30.1 25.7 38.5





#5

Bromomethane

Concen: 48.640 ug/l

RT: 1.593 min Scan# 83

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 94 Resp: 72536

Ion Ratio Lower Upper

94 100

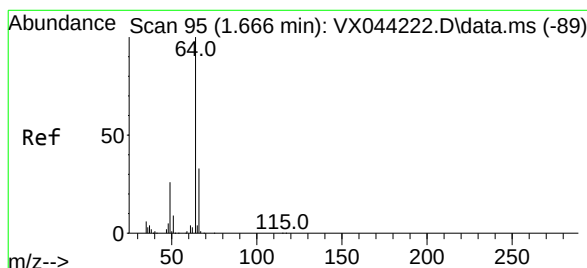
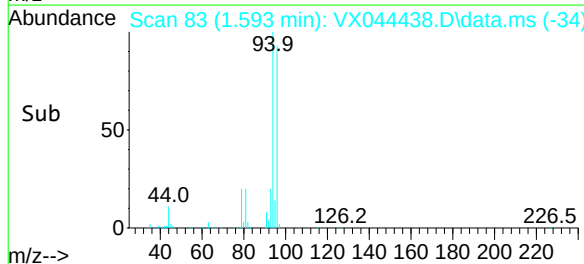
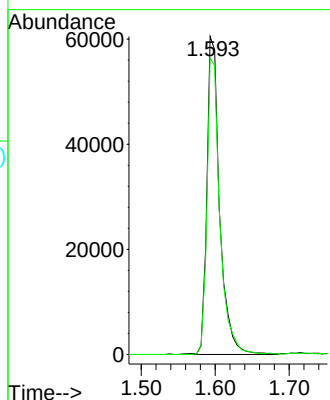
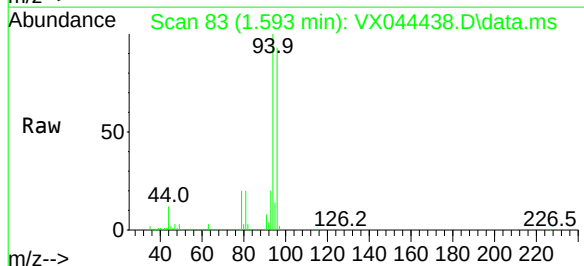
96 93.2 74.9 112.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#6

Chloroethane

Concen: 49.350 ug/l

RT: 1.666 min Scan# 95

Delta R.T. -0.000 min

Lab File: VX044438.D

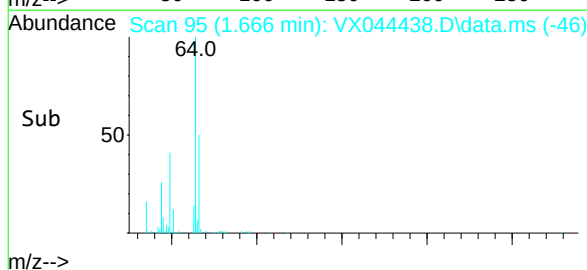
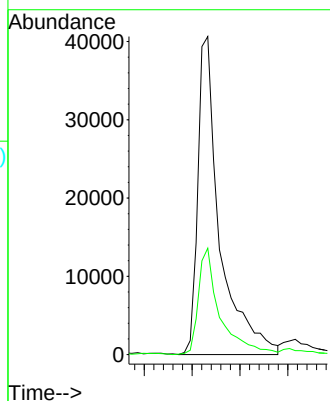
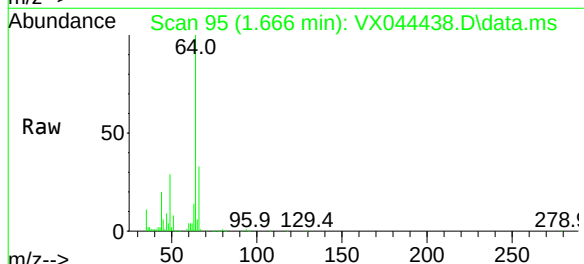
Acq: 20 Dec 2024 09:16

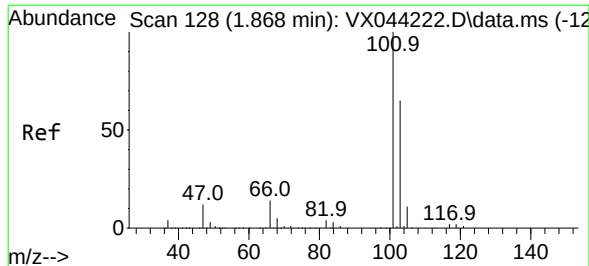
Tgt Ion: 64 Resp: 64589

Ion Ratio Lower Upper

64 100

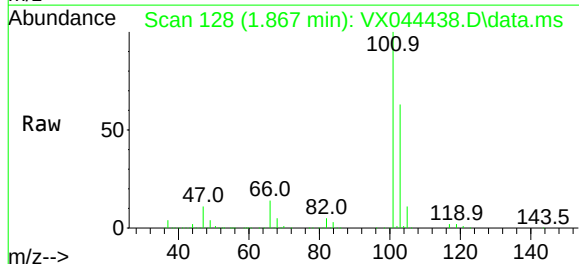
66 33.3 26.6 39.8





Trichlorofluoromethane
Concen: 49.144 ug/l
RT: 1.867 min Scan# 128
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

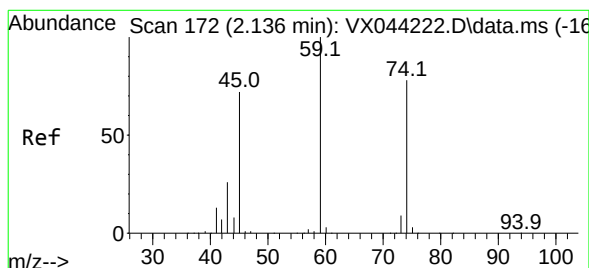
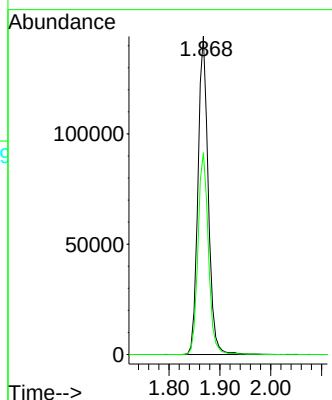
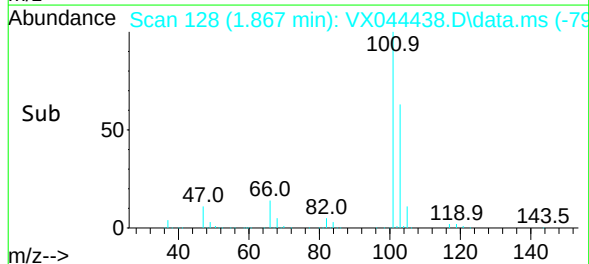
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 101 Resp: 202222
Ion Ratio Lower Upper
101 100
103 63.5 51.8 77.8

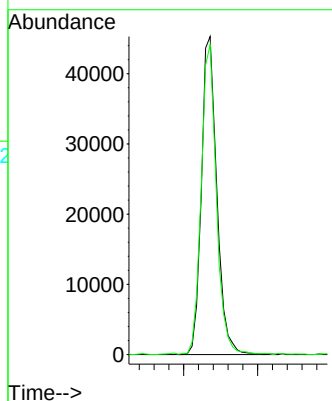
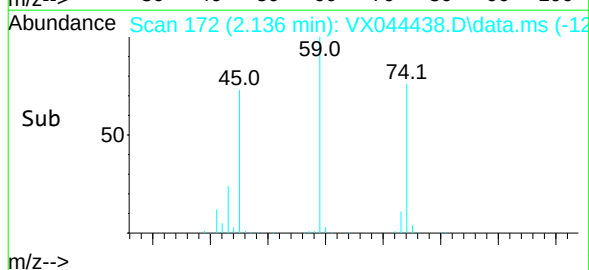
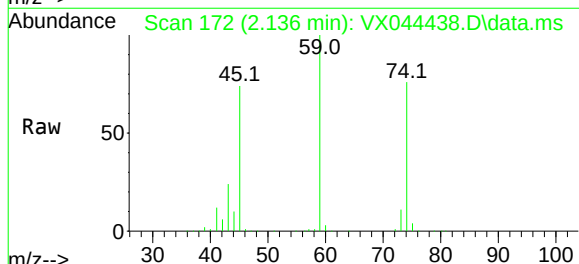
Manual Integrations
APPROVED

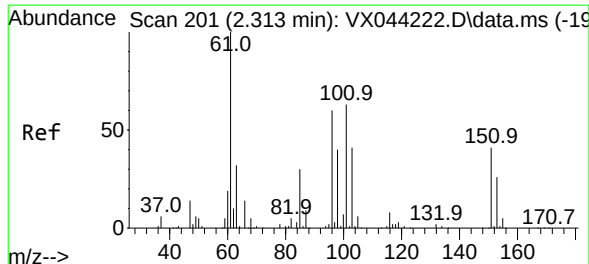
Reviewed By : Semsettin Yesilyurt 12/23/2024
Supervised By : Mahesh Dadoda 12/24/2024



Diethyl Ether
Concen: 46.573 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 74 Resp: 65414
Ion Ratio Lower Upper
74 100
45 96.6 48.4 145.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 55.436 ug/l

RT: 2.319 min Scan# 201

Delta R.T. 0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

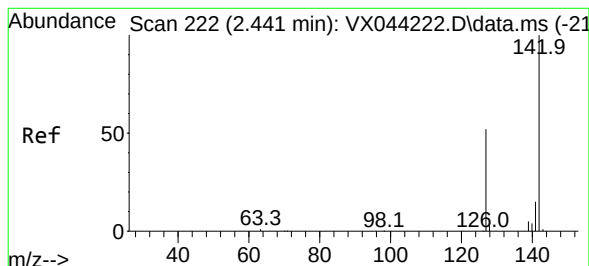
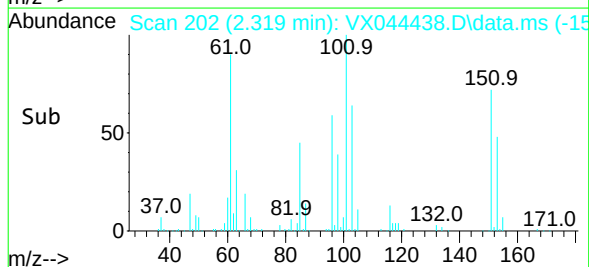
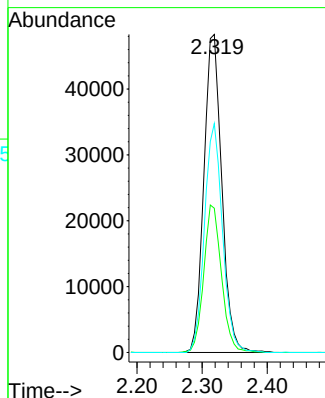
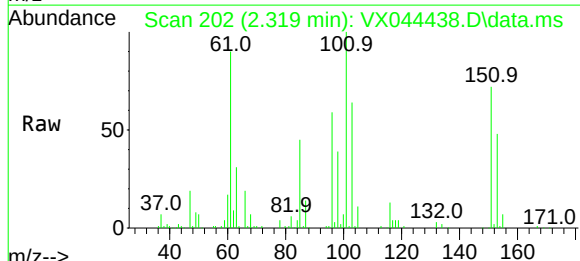
ClientSampleId :

VSTDCCC050

Tgt Ion:	101	Resp:	92304
Ion	Ratio	Lower	Upper
101	100		
85	46.0	38.5	57.7
151	72.5	55.8	83.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#10

Methyl Iodide

Concen: 53.737 ug/l

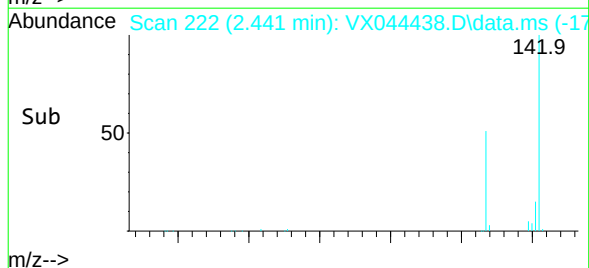
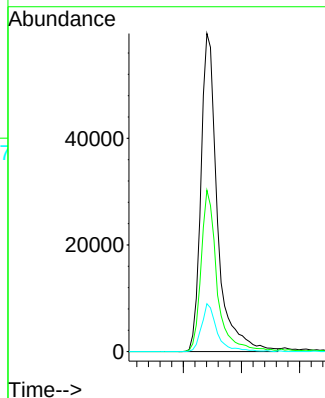
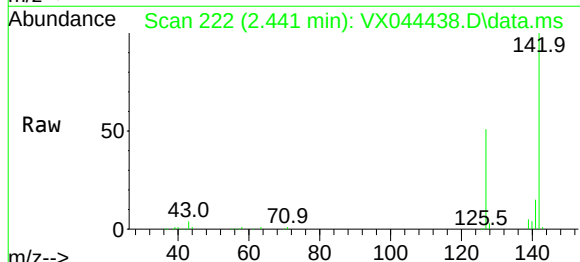
RT: 2.441 min Scan# 222

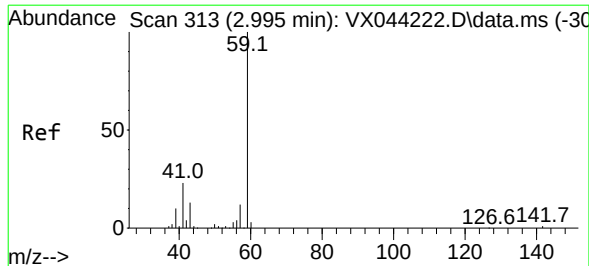
Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Tgt Ion:	142	Resp:	117927
Ion	Ratio	Lower	Upper
142	100		
127	49.2	41.8	62.8
141	14.2	11.5	17.3





#11

Tert butyl alcohol

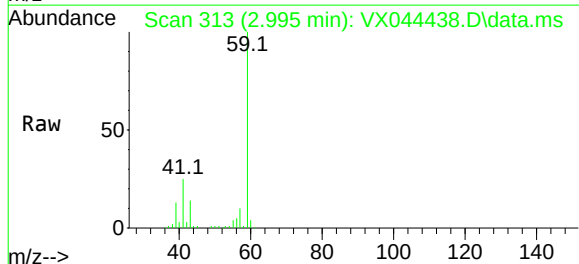
Concen: 207.237 ug/l

RT: 2.995 min Scan# 313

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16



Tgt Ion: 59 Resp: 69873

Ion Ratio Lower Upper

59 100

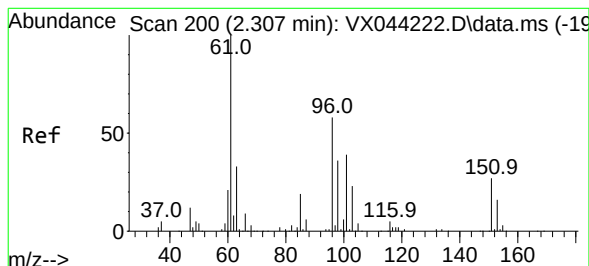
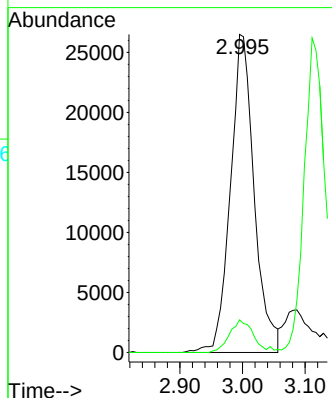
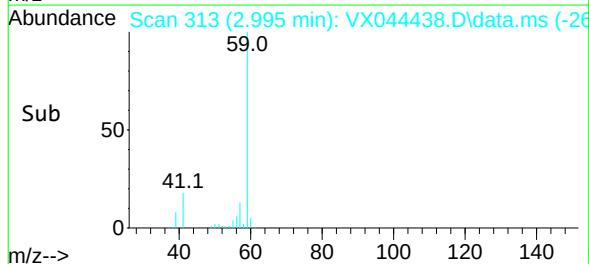
57 10.6 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#12

1,1-Dichloroethene

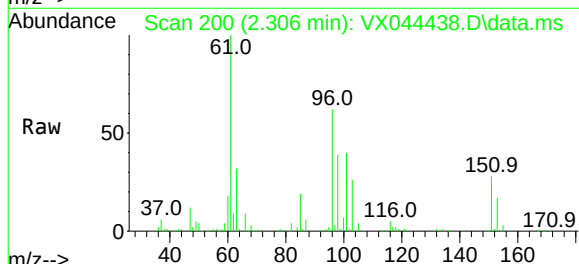
Concen: 55.650 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16



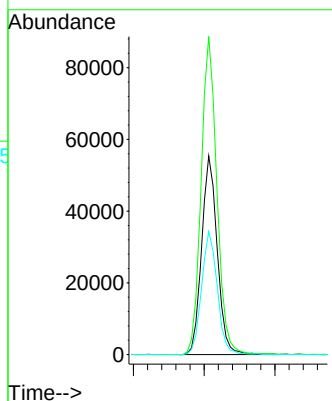
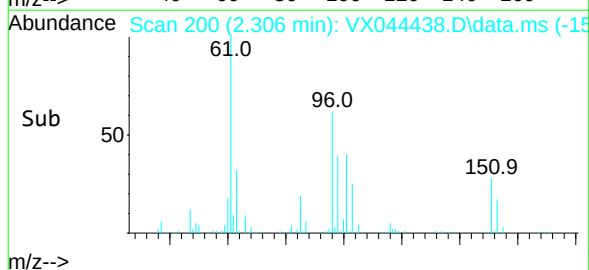
Tgt Ion: 96 Resp: 85110

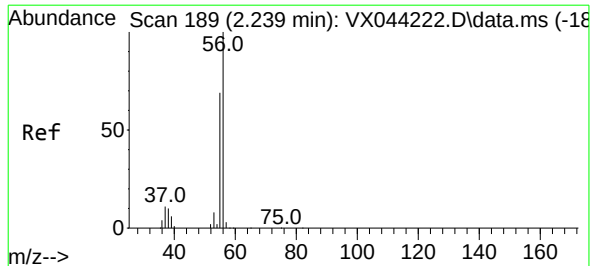
Ion Ratio Lower Upper

96 100

61 160.0 138.0 207.0

98 62.0 50.0 75.0





#13

Acrolein

Concen: 216.034 ug/l

RT: 2.239 min Scan# 189

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 105437

Ion Ratio Lower Upper

56 100

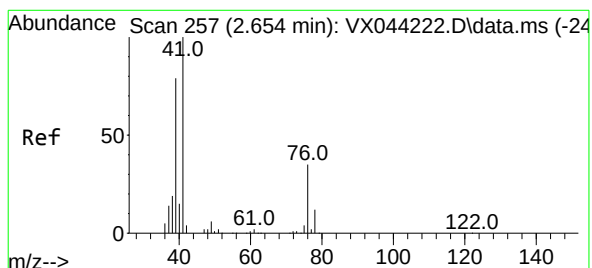
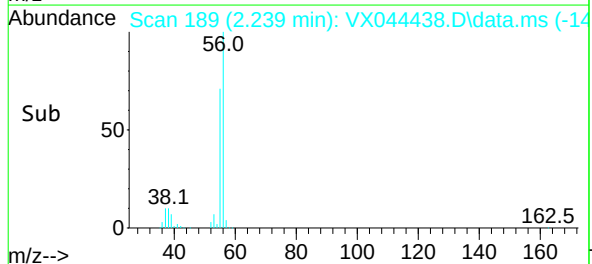
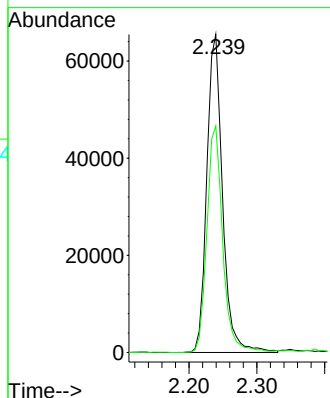
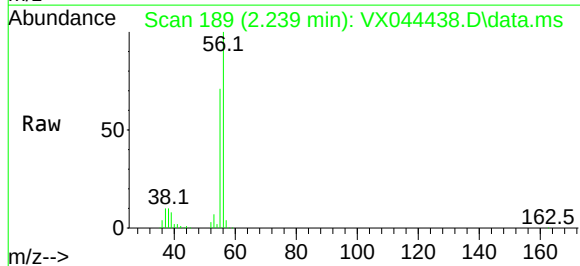
55 71.6 56.6 84.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#14

Allyl chloride

Concen: 51.595 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

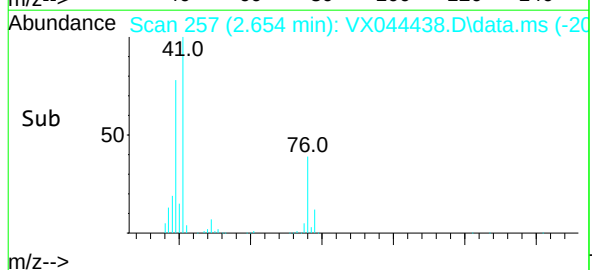
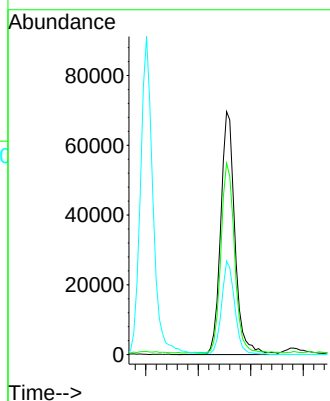
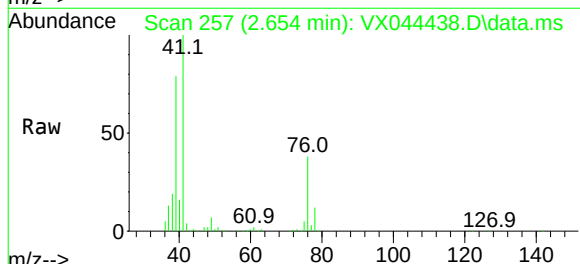
Tgt Ion: 41 Resp: 131432

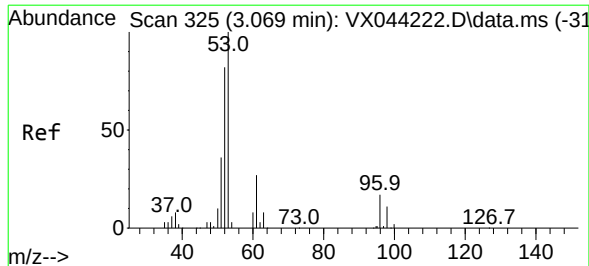
Ion Ratio Lower Upper

41 100

39 73.8 61.9 92.9

76 35.5 27.4 41.2





#15

Acrylonitrile

Concen: 245.064 ug/l

RT: 3.069 min Scan# 32

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

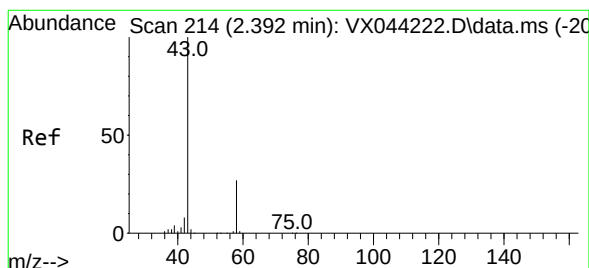
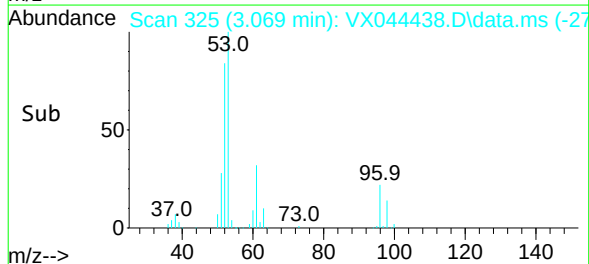
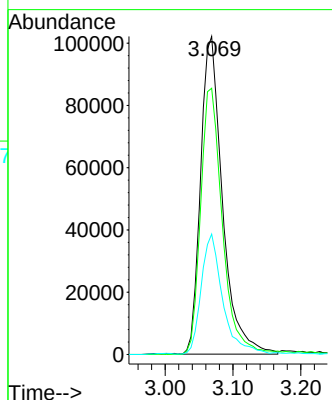
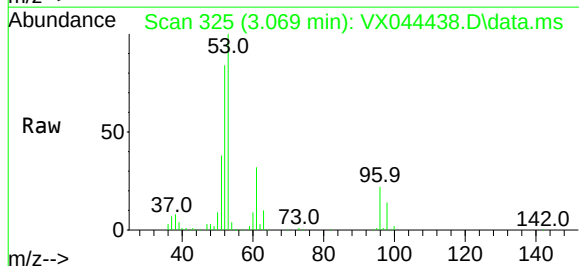
ClientSampleId :

VSTDCCC050

Tgt Ion:	53	Resp:	228880
Ion	Ratio	Lower	Upper
53	100		
52	83.6	67.4	101.0
51	37.1	30.3	45.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#16

Acetone

Concen: 203.262 ug/l

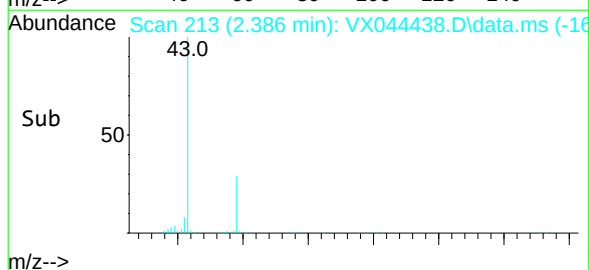
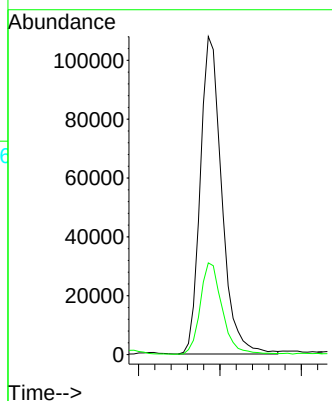
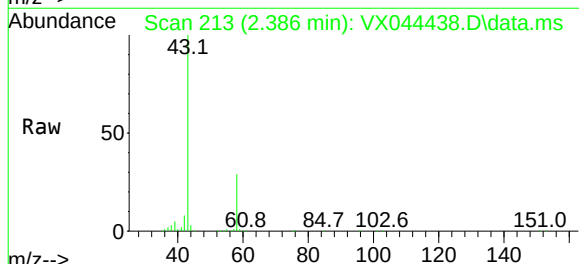
RT: 2.386 min Scan# 213

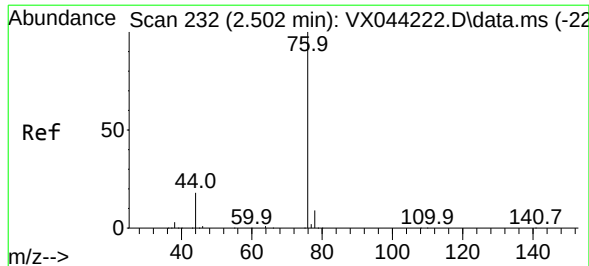
Delta R.T. -0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Tgt Ion:	43	Resp:	198245
Ion	Ratio	Lower	Upper
43	100		
58	28.7	21.6	32.4





#17

Carbon Disulfide

Concen: 51.902 ug/l

RT: 2.502 min Scan# 231

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 150886

Ion Ratio Lower Upper

76 100

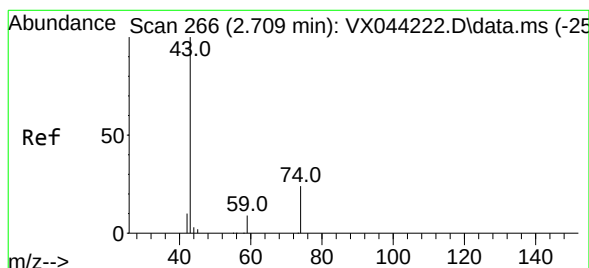
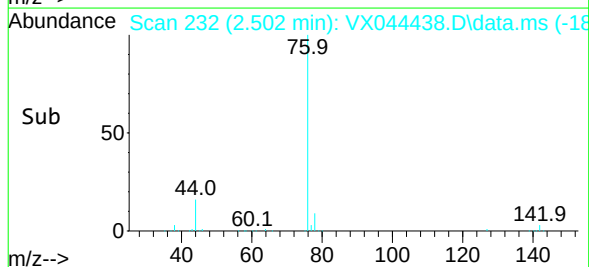
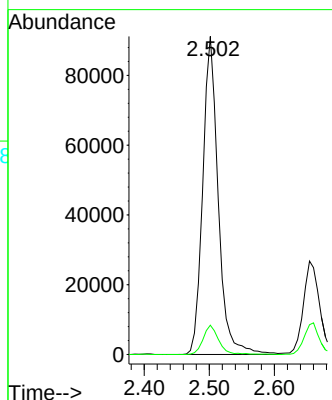
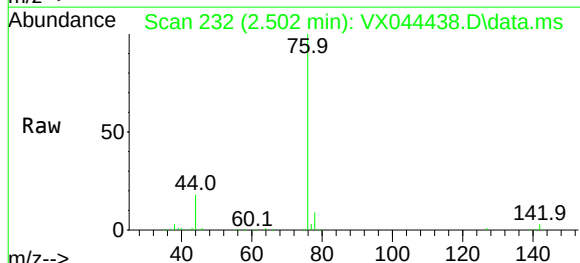
78 9.2 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#18

Methyl Acetate

Concen: 48.611 ug/l

RT: 2.703 min Scan# 265

Delta R.T. -0.006 min

Lab File: VX044438.D

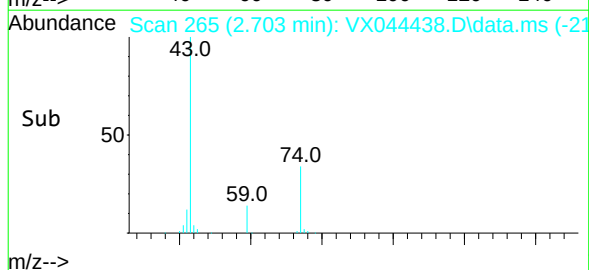
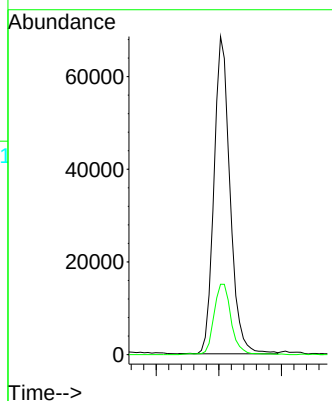
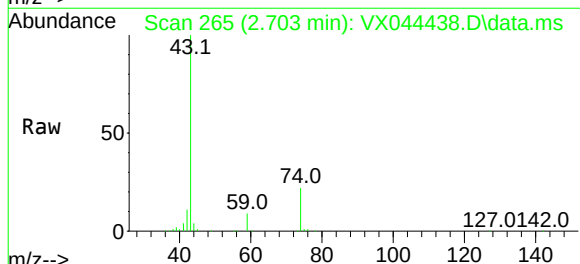
Acq: 20 Dec 2024 09:16

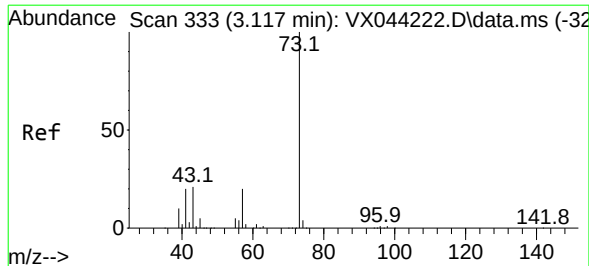
Tgt Ion: 43 Resp: 122242

Ion Ratio Lower Upper

43 100

74 23.7 17.7 26.5





#19

Methyl tert-butyl Ether

Concen: 47.845 ug/l

RT: 3.111 min Scan# 333

Delta R.T. -0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 285547

Ion Ratio Lower Upper

73 100

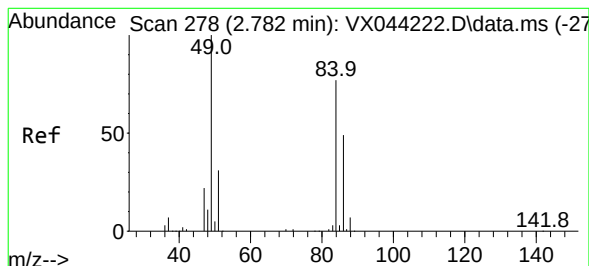
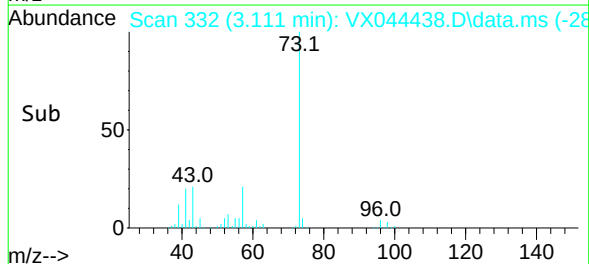
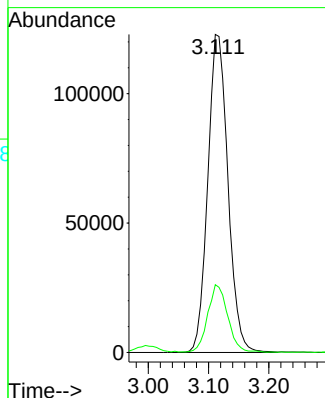
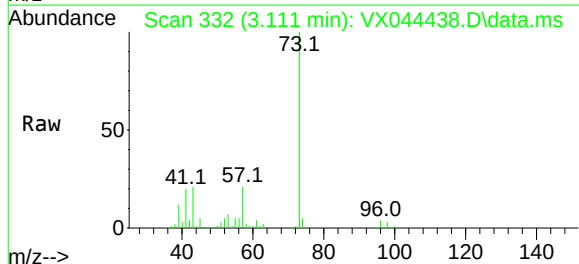
57 21.2 16.2 24.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#20

Methylene Chloride

Concen: 51.347 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Tgt Ion: 84 Resp: 94061

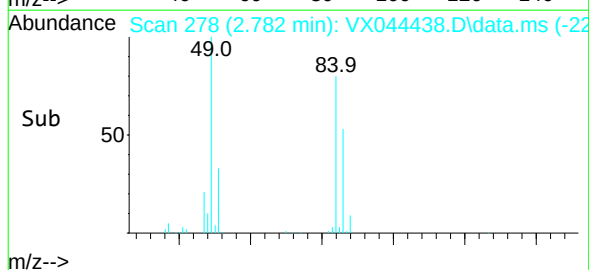
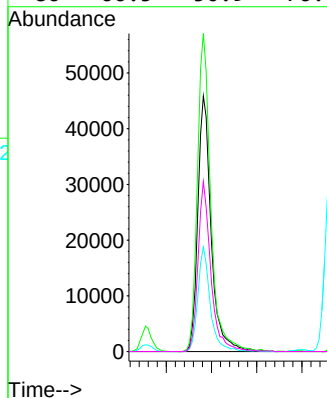
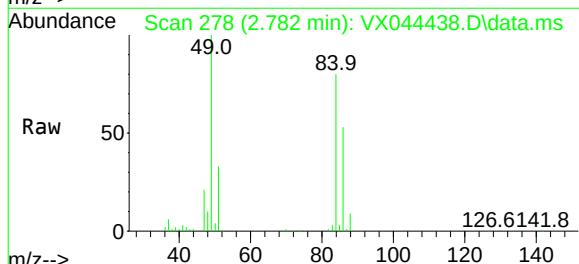
Ion Ratio Lower Upper

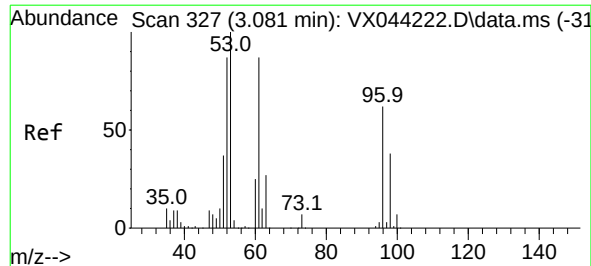
84 100

49 124.4 104.2 156.4

51 40.9 32.2 48.4

86 66.5 50.9 76.3





#21

trans-1,2-Dichloroethene

Concen: 52.474 ug/l

RT: 3.081 min Scan# 327

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 85292

Ion Ratio Lower Upper

96 100

61 133.6 112.0 168.0

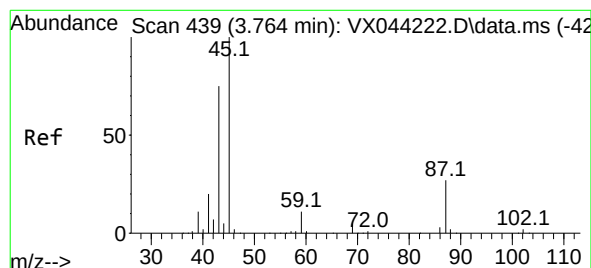
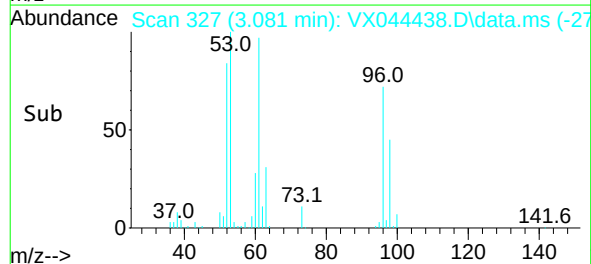
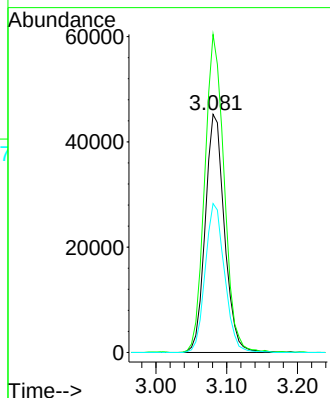
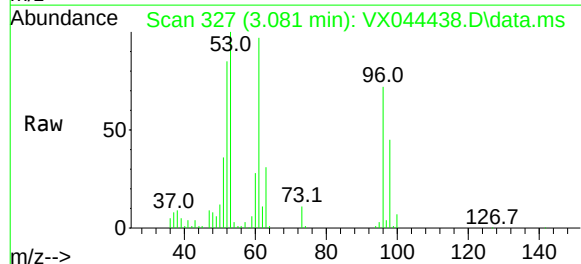
98 62.5 48.8 73.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#22

Diisopropyl ether

Concen: 49.031 ug/l

RT: 3.764 min Scan# 439

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Tgt Ion: 45 Resp: 281255

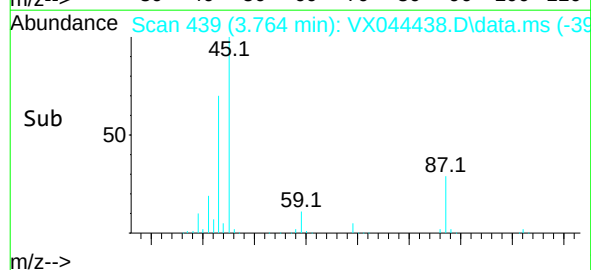
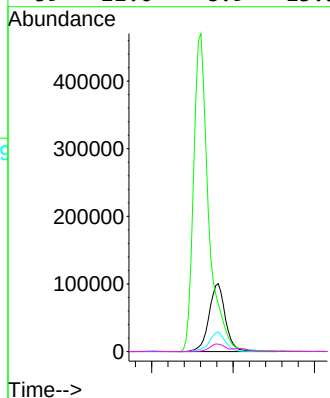
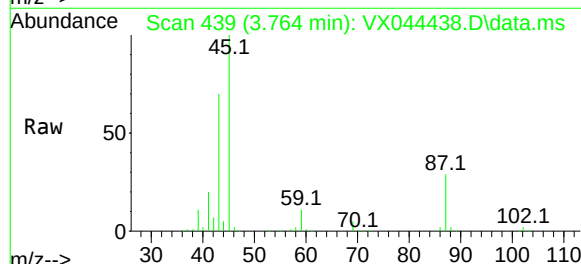
Ion Ratio Lower Upper

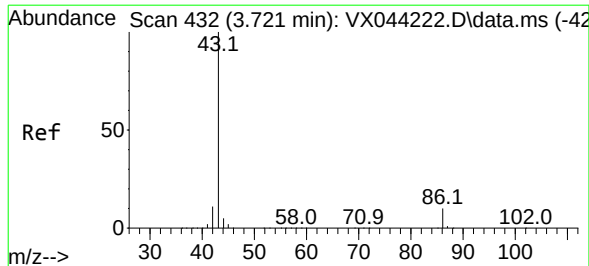
45 100

43 69.9 60.2 90.2

87 28.8 21.2 31.8

59 11.0 8.9 13.3





#23

Vinyl Acetate

Concen: 259.287 ug/l

RT: 3.721 min Scan# 43

Delta R.T. -0.000 min

Lab File: VX044438.D

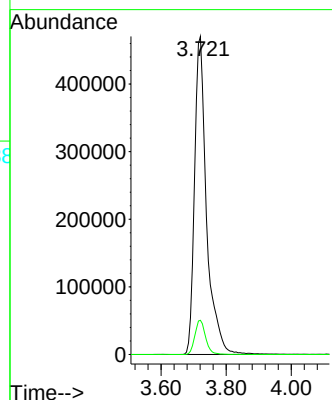
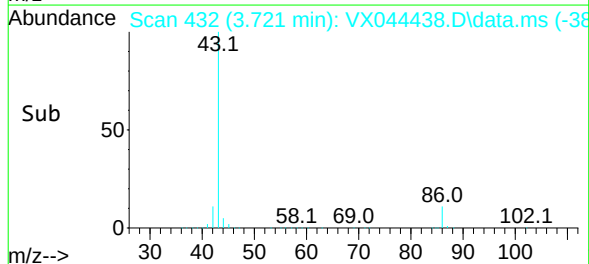
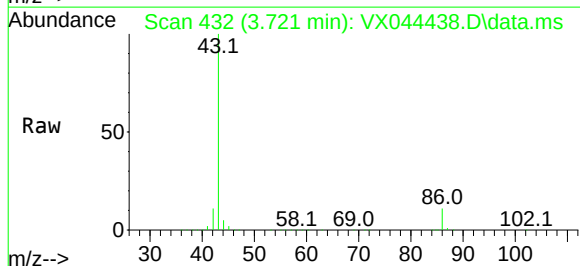
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 1209209

Ion Ratio Lower Upper

43 100

86 10.8 8.2 12.2



Instrument :

MSVOA_X

ClientSampleId :

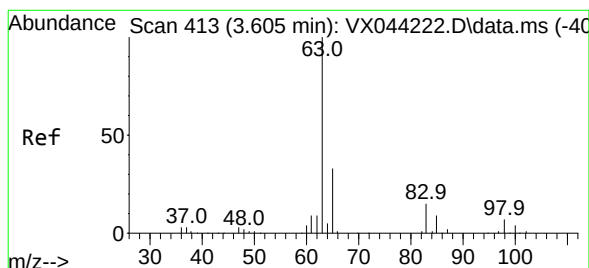
VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#24

1,1-Dichloroethane

Concen: 51.322 ug/l

RT: 3.605 min Scan# 413

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

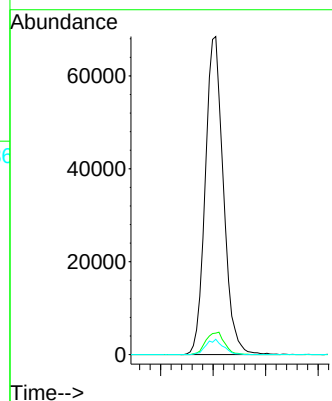
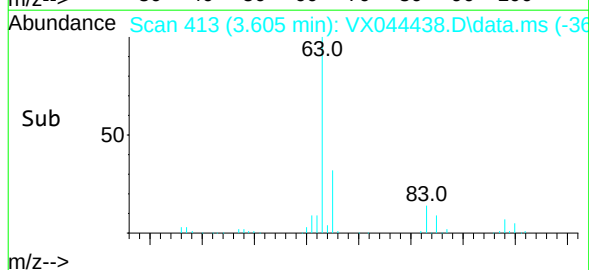
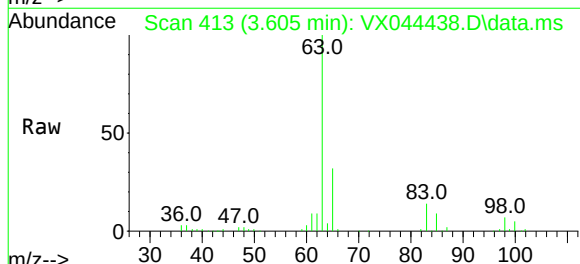
Tgt Ion: 63 Resp: 164103

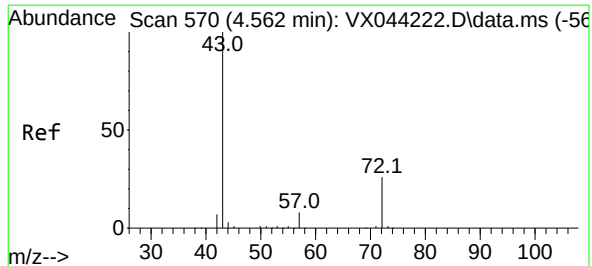
Ion Ratio Lower Upper

63 100

98 6.7 3.6 10.8

100 4.8 2.1 6.3





#25

2-Butanone

Concen: 225.066 ug/l

RT: 4.562 min Scan# 570

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 312065

Ion Ratio Lower Upper

43 100

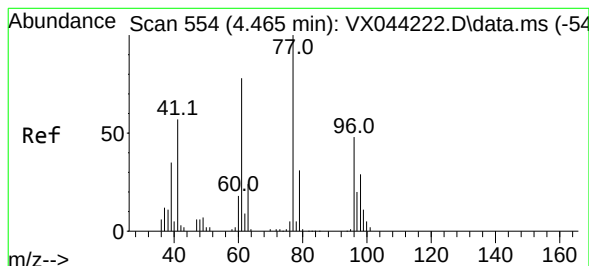
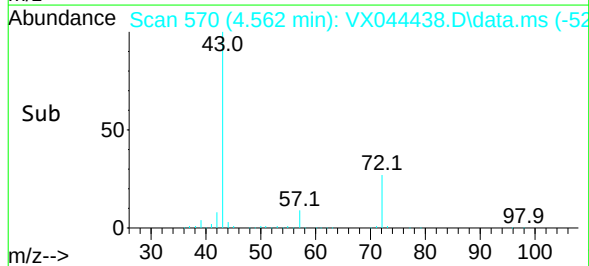
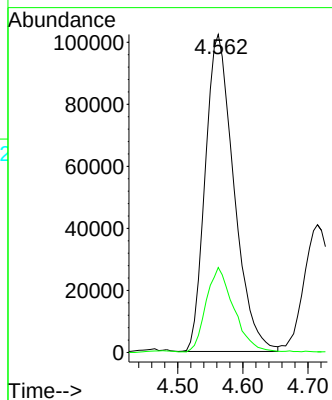
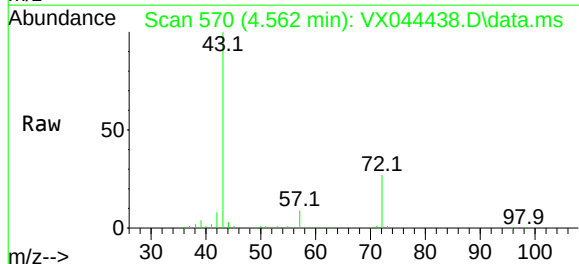
72 26.6 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#26

2,2-Dichloropropane

Concen: 51.979 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.006 min

Lab File: VX044438.D

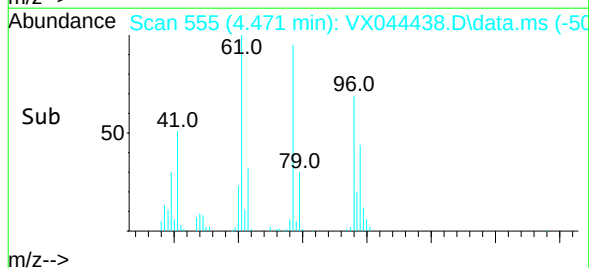
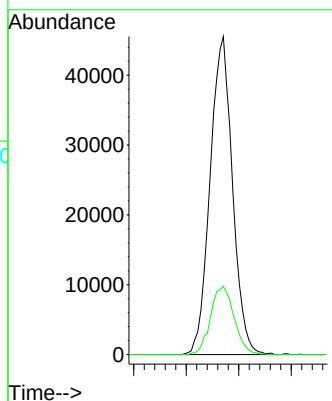
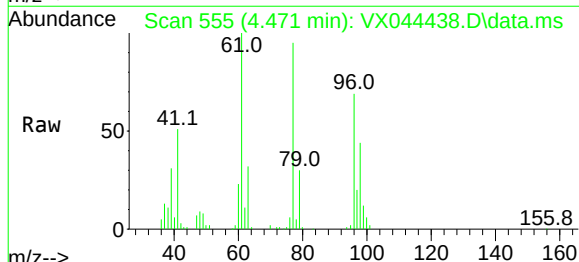
Acq: 20 Dec 2024 09:16

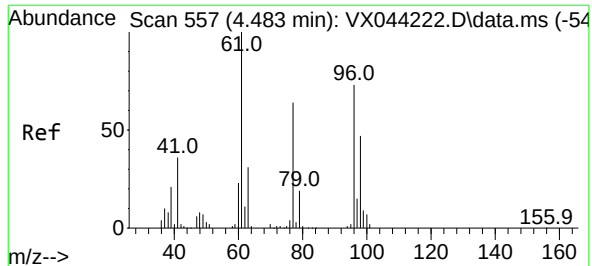
Tgt Ion: 77 Resp: 135023

Ion Ratio Lower Upper

77 100

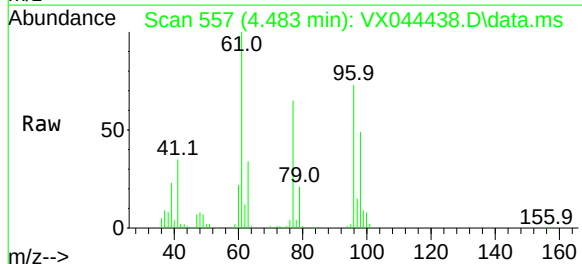
97 22.6 10.7 32.1





#27
 cis-1,2-Dichloroethene
 Concen: 49.931 ug/l
 RT: 4.483 min Scan# 557
 Delta R.T. -0.000 min
 Lab File: VX044438.D
 Acq: 20 Dec 2024 09:16

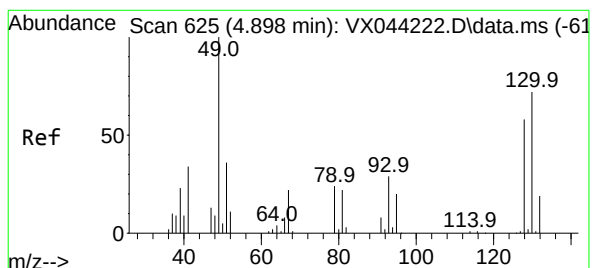
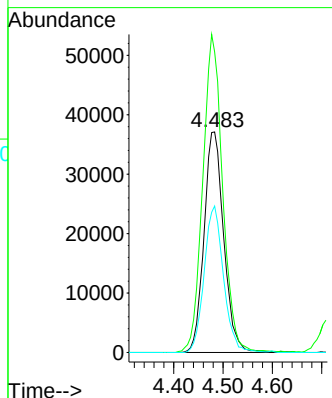
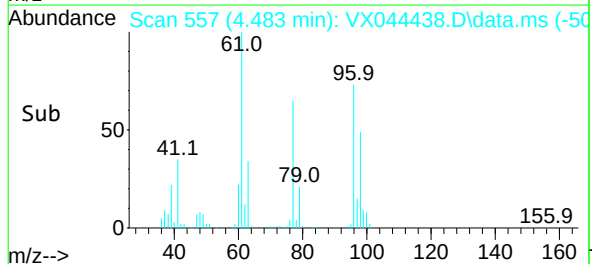
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050



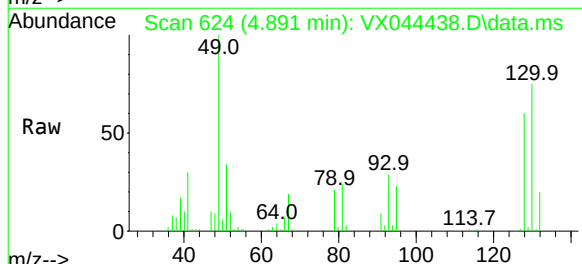
Tgt Ion: 96 Resp: 103072
 Ion Ratio Lower Upper
 96 100
 61 144.7 0.0 299.0
 98 65.2 0.0 129.0

Manual Integrations
 APPROVED

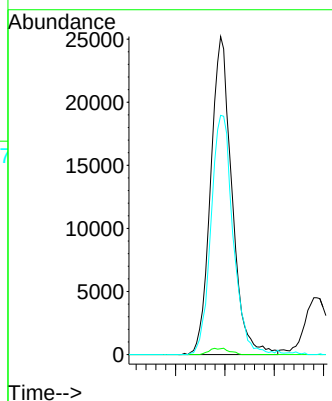
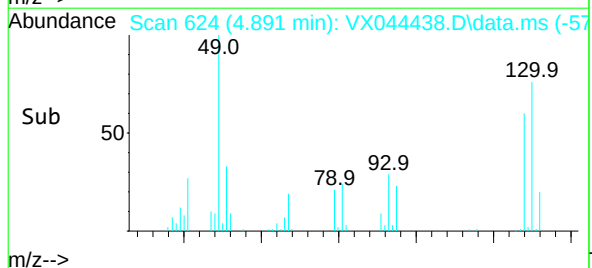
Reviewed By :Semsettin Yesilyurt 12/23/2024
 Supervised By :Mahesh Dadoda 12/24/2024

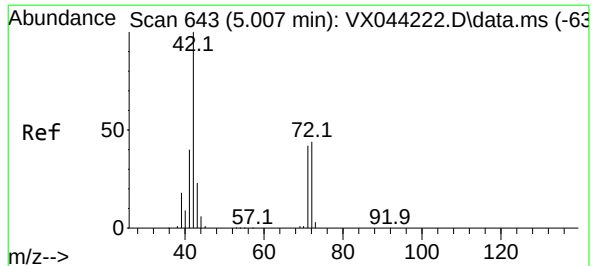


#28
 Bromochloromethane
 Concen: 48.128 ug/l
 RT: 4.891 min Scan# 624
 Delta R.T. -0.006 min
 Lab File: VX044438.D
 Acq: 20 Dec 2024 09:16



Tgt Ion: 49 Resp: 75463
 Ion Ratio Lower Upper
 49 100
 129 1.9 0.0 4.2
 130 78.0 62.1 93.1





#29

Tetrahydrofuran

Concen: 227.599 ug/l

RT: 5.001 min Scan# 64

Delta R.T. -0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 202559

Ion Ratio Lower Upper

42 100

72 45.7 37.0 55.6

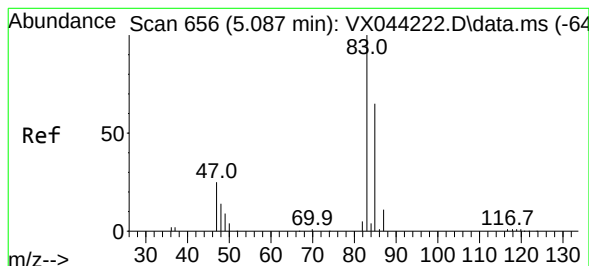
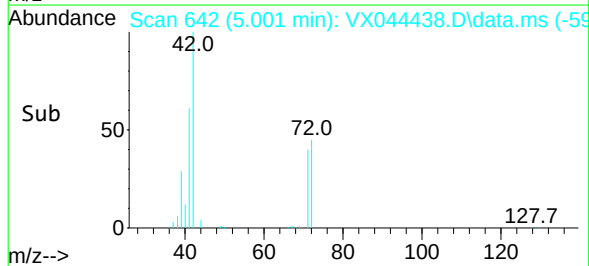
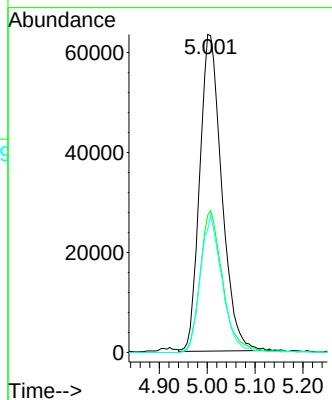
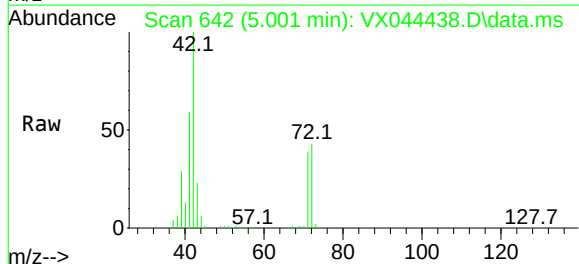
71 42.9 33.6 50.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#30

Chloroform

Concen: 48.035 ug/l

RT: 5.086 min Scan# 656

Delta R.T. -0.000 min

Lab File: VX044438.D

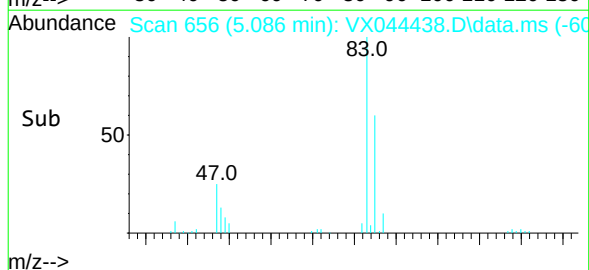
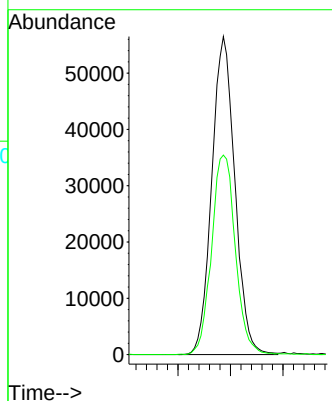
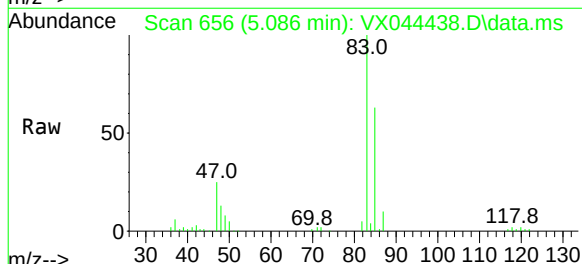
Acq: 20 Dec 2024 09:16

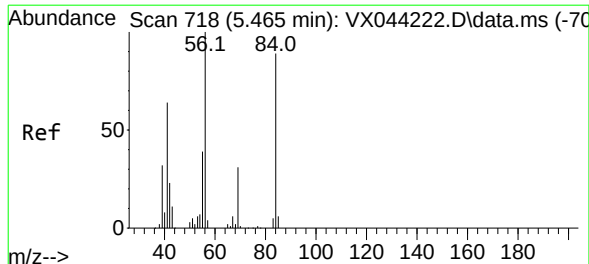
Tgt Ion: 83 Resp: 172568

Ion Ratio Lower Upper

83 100

85 62.6 51.6 77.4





#31

Cyclohexane

Concen: 52.839 ug/l

RT: 5.458 min Scan# 71

Delta R.T. -0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 136432

Ion Ratio Lower Upper

56 100

69 31.9 24.7 37.1

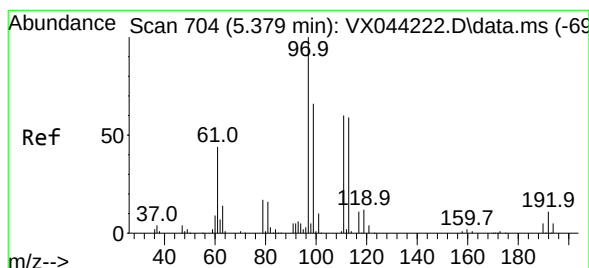
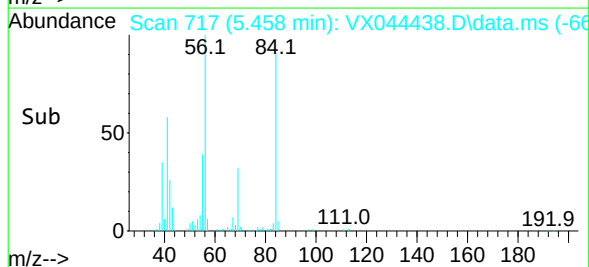
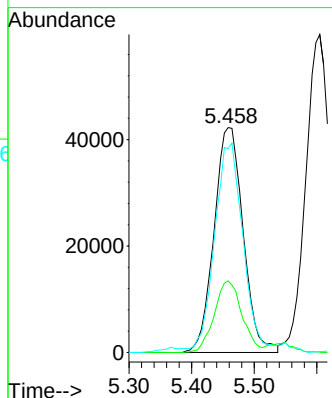
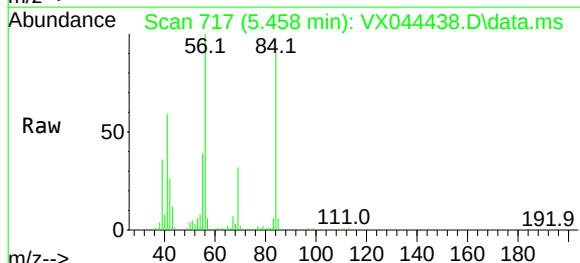
84 89.0 71.0 106.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#32

1,1,1-Trichloroethane

Concen: 50.298 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

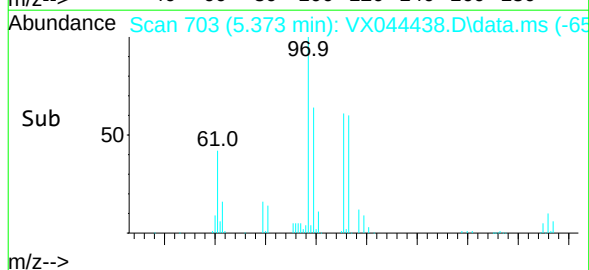
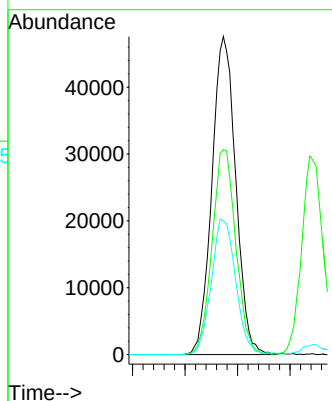
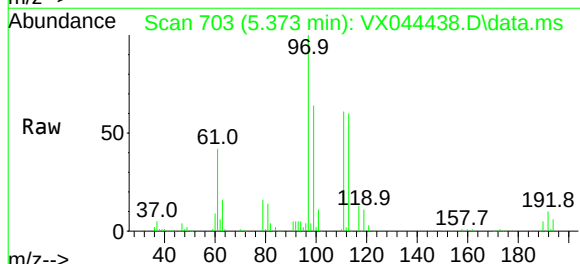
Tgt Ion: 97 Resp: 149993

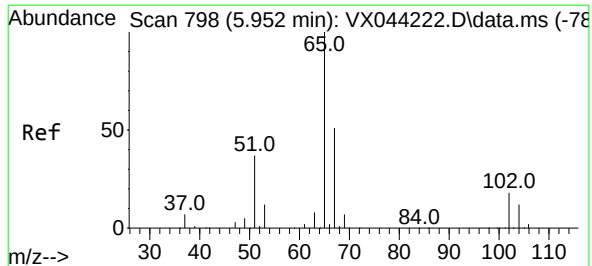
Ion Ratio Lower Upper

97 100

99 64.4 50.8 76.2

61 43.5 35.2 52.8





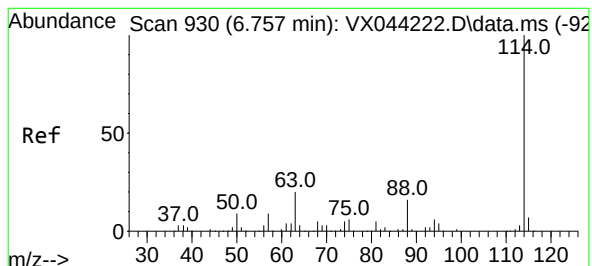
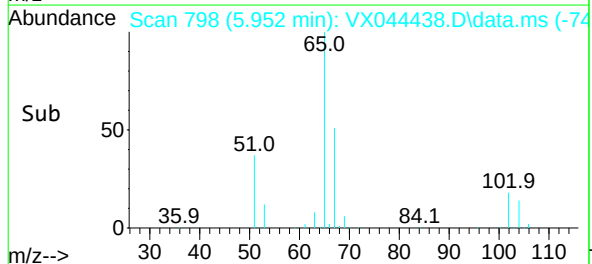
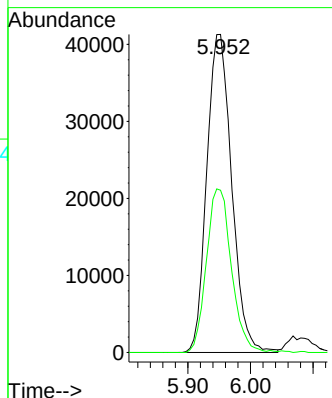
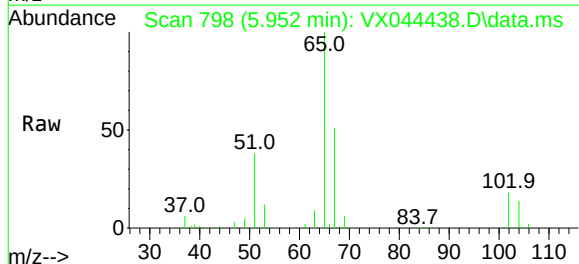
#33
1,2-Dichloroethane-d4
Concen: 47.679 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 114063
Ion Ratio Lower Upper
65 100
67 51.5 0.0 101.6

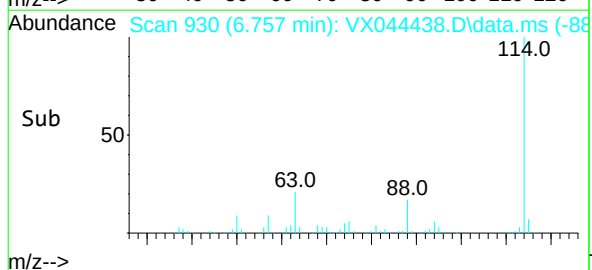
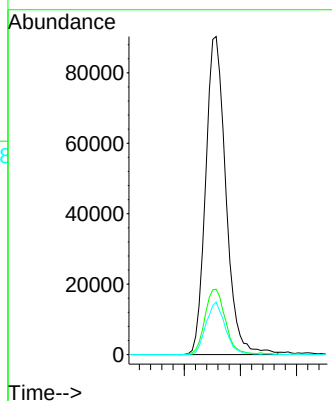
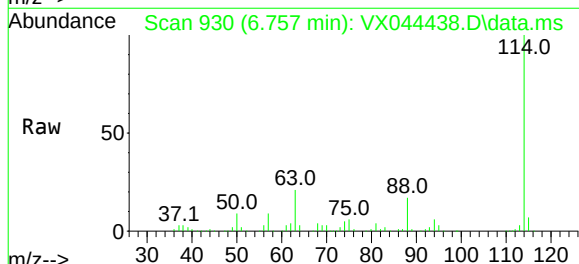
Manual Integrations
APPROVED

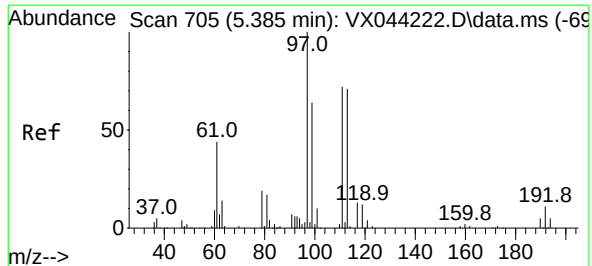
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

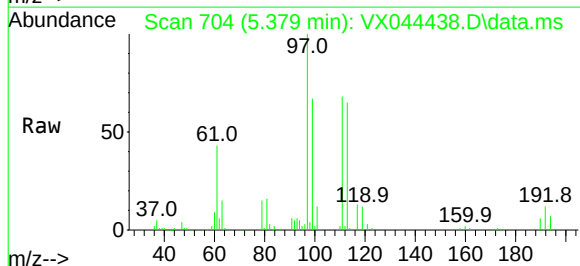
Tgt Ion:114 Resp: 226018
Ion Ratio Lower Upper
114 100
63 20.6 0.0 40.6
88 16.5 0.0 31.8





#35
Dibromofluoromethane
Concen: 56.586 ug/l
RT: 5.379 min Scan# 705
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

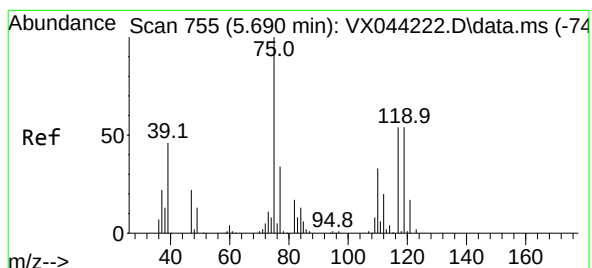
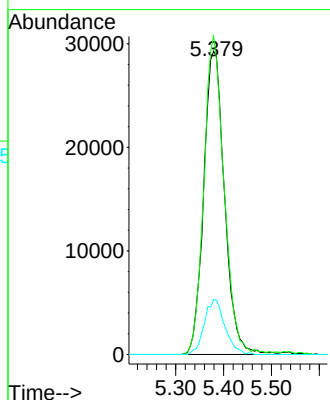
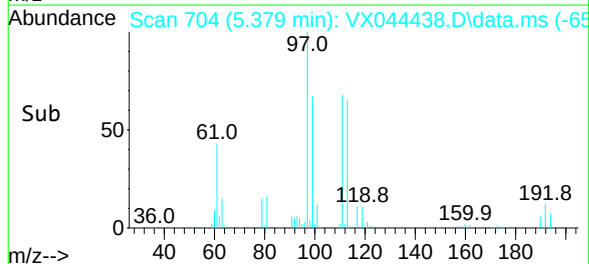
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 113 Resp: 88578
Ion Ratio Lower Upper
113 100
111 101.0 80.4 120.6
192 18.0 13.3 19.9

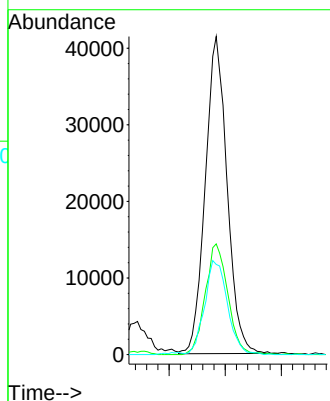
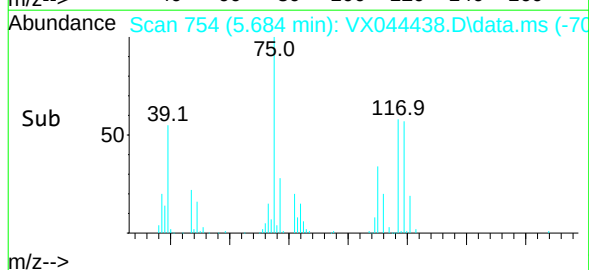
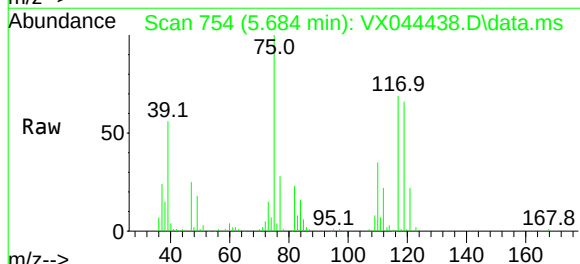
Manual Integrations
APPROVED

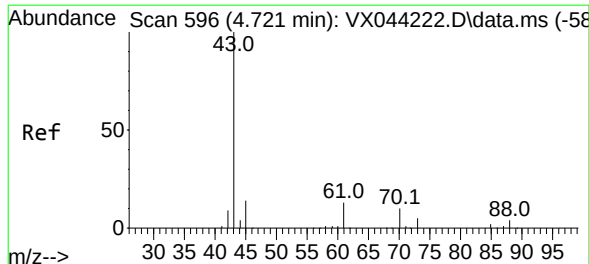
Reviewed By : Semsettin Yesilyurt 12/23/2024
Supervised By : Mahesh Dadoda 12/24/2024



#36
1,1-Dichloropropene
Concen: 55.205 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 111706
Ion Ratio Lower Upper
75 100
110 36.3 17.3 51.7
77 31.1 25.4 38.0





#37

Ethyl Acetate

Concen: 50.217 ug/l

RT: 4.715 min Scan# 59

Delta R.T. -0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

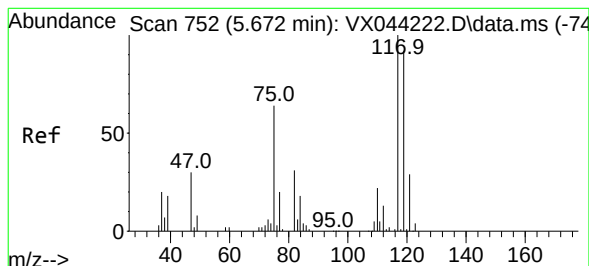
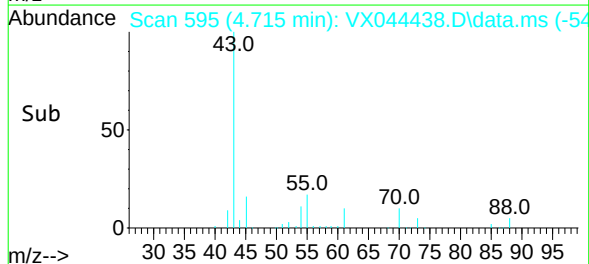
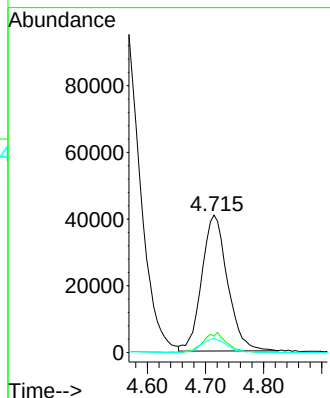
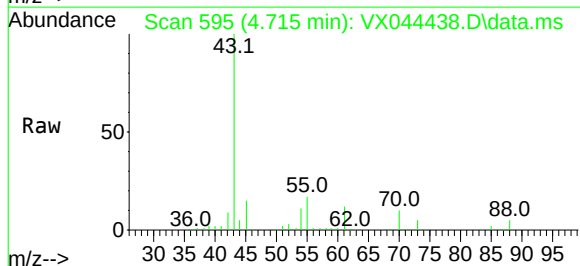
ClientSampleId :

VSTDCCC050

Tgt Ion:	43	Resp:	125607
Ion	Ratio	Lower	Upper
43	100		
61	12.7	9.8	14.8
70	10.0	7.7	11.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#38

Carbon Tetrachloride

Concen: 55.304 ug/l

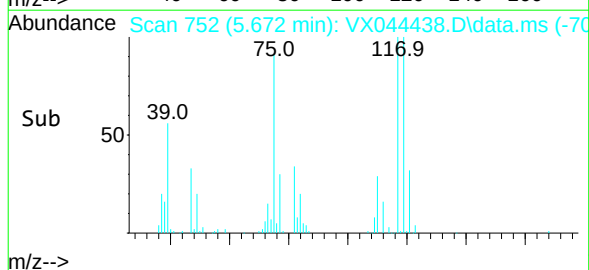
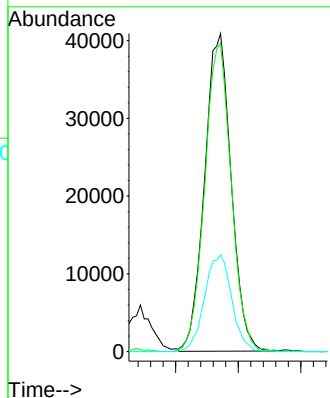
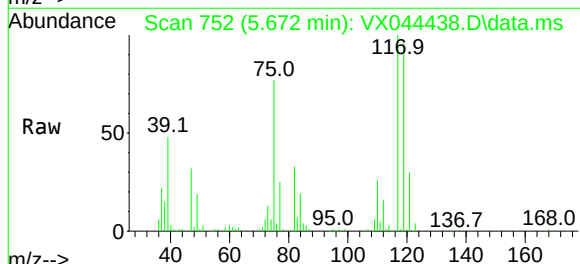
RT: 5.672 min Scan# 752

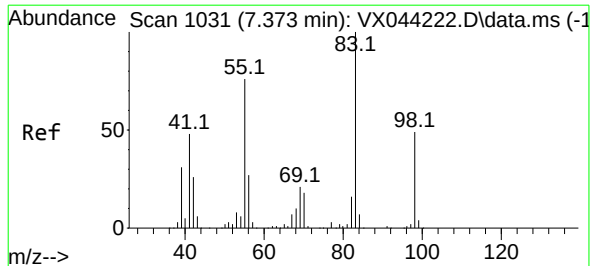
Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Tgt Ion:	117	Resp:	120478
Ion	Ratio	Lower	Upper
117	100		
119	96.8	74.2	111.4
121	30.5	23.0	34.6





#39

Methylcyclohexane

Concen: 60.512 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Tgt Ion: 83 Resp: 146379

Ion Ratio Lower Upper

83 100

55 73.1 60.7 91.1

98 49.8 38.9 58.3

Instrument :

MSVOA_X

ClientSampleId :

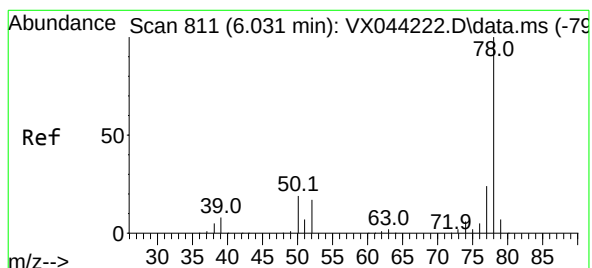
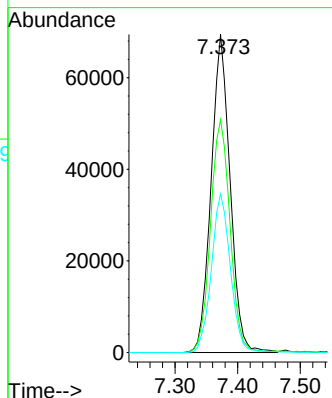
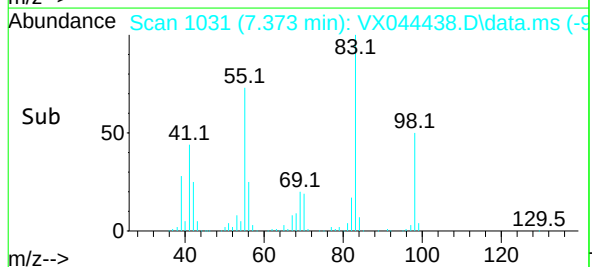
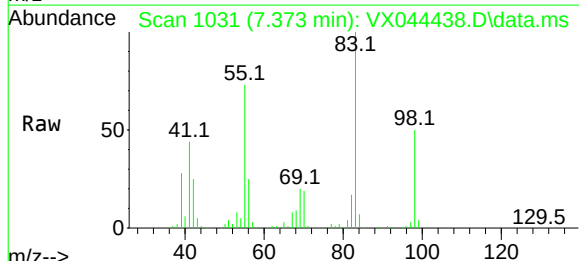
VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#40

Benzene

Concen: 56.259 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX044438.D

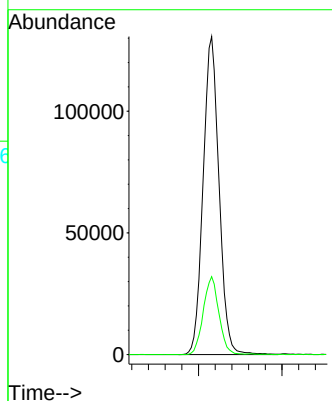
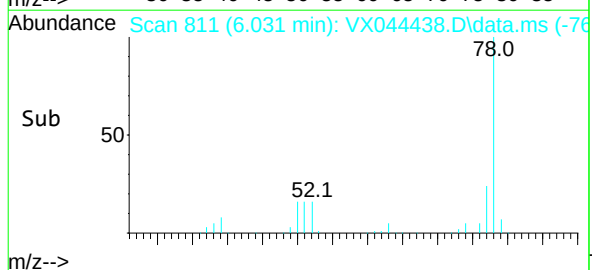
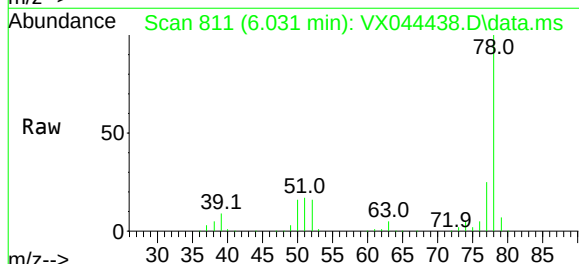
Acq: 20 Dec 2024 09:16

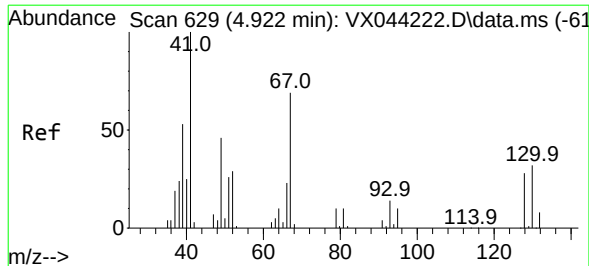
Tgt Ion: 78 Resp: 345635

Ion Ratio Lower Upper

78 100

77 24.5 19.3 28.9





#41

Methacrylonitrile

Concen: 50.310 ug/l

RT: 4.922 min Scan# 62

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Tgt Ion:	41	Resp:	66821
Ion	Ratio	Lower	Upper
41	100		
39	58.0	44.2	66.4
67	74.9	57.2	85.8
52	32.1	24.6	37.0

Instrument :

MSVOA_X

ClientSampleId :

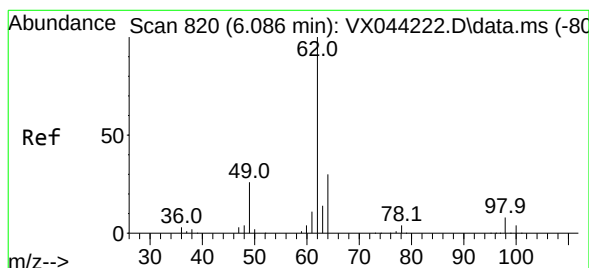
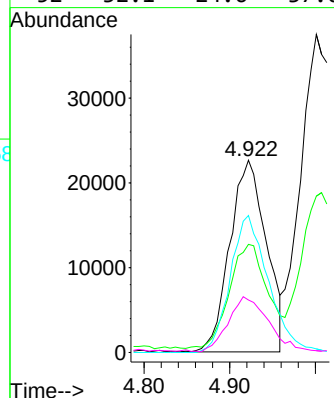
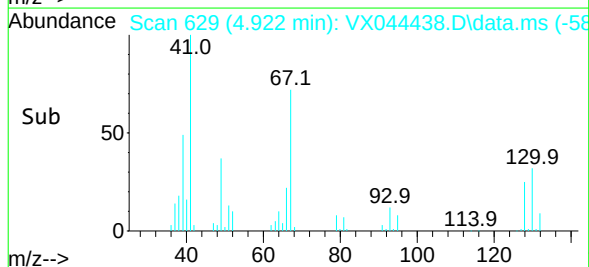
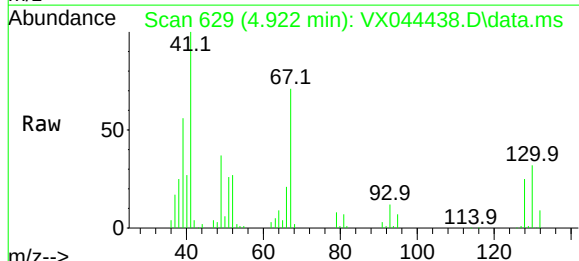
VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#42

1,2-Dichloroethane

Concen: 52.362 ug/l

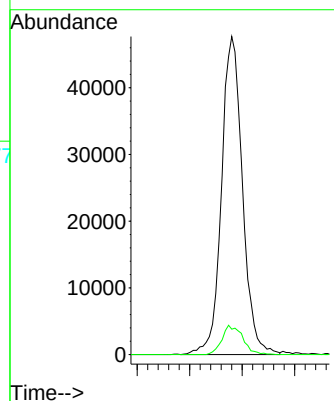
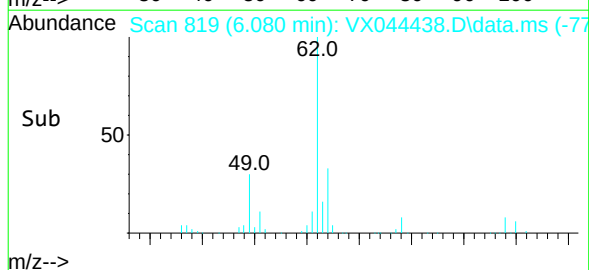
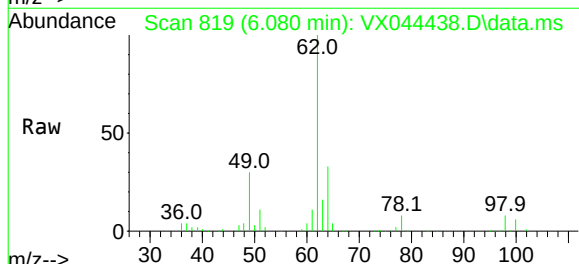
RT: 6.080 min Scan# 819

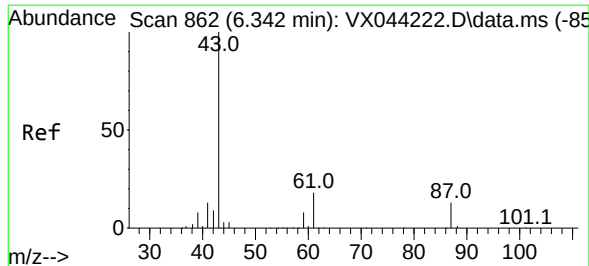
Delta R.T. -0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Tgt Ion:	62	Resp:	132516
Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	15.8





#43

Isopropyl Acetate

Concen: 51.076 ug/l

RT: 6.342 min Scan# 86

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

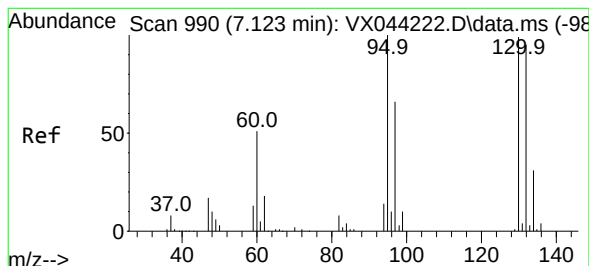
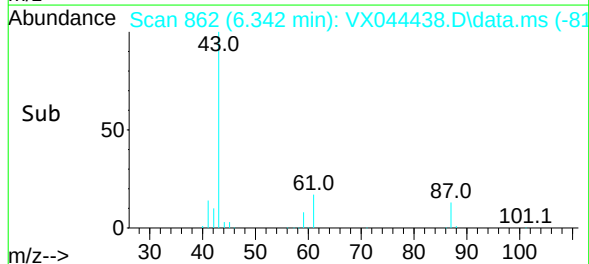
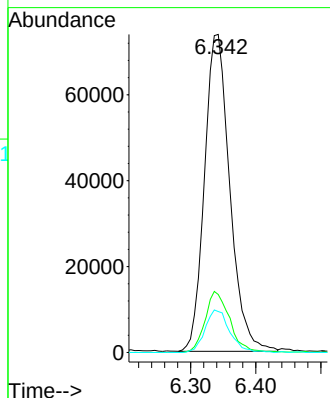
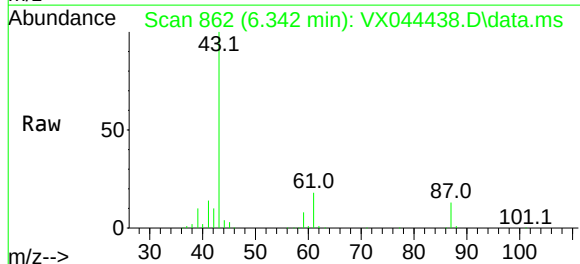
ClientSampleId :

VSTDCCC050

Tgt Ion:	43	Resp:	199677
Ion	Ratio	Lower	Upper
43	100		
61	18.8	14.2	21.2
87	13.1	10.2	15.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#44

Trichloroethene

Concen: 57.285 ug/l

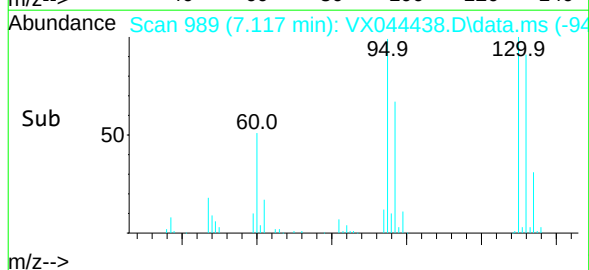
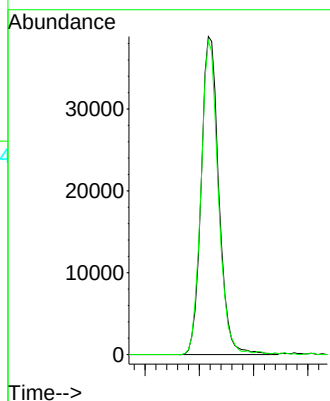
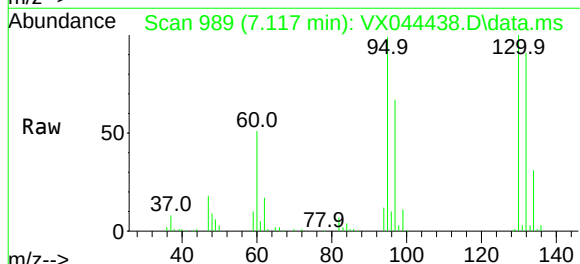
RT: 7.117 min Scan# 989

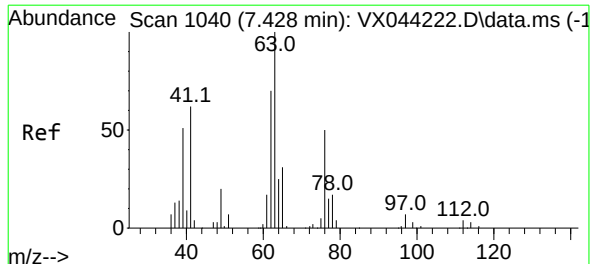
Delta R.T. -0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Tgt Ion:	130	Resp:	87763
Ion	Ratio	Lower	Upper
130	100		
95	98.7	0.0	201.4





#45

1,2-Dichloropropane

Concen: 53.131 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Tgt Ion: 63 Resp: 83393

Ion Ratio Lower Upper

63 100

65 29.9 24.6 37.0

Instrument :

MSVOA_X

ClientSampleId :

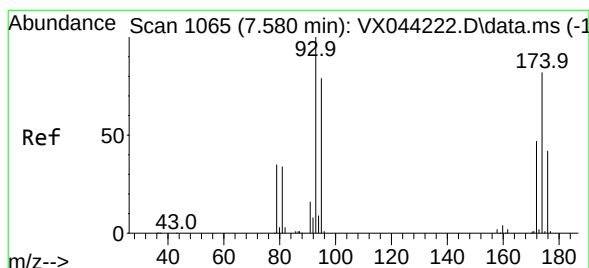
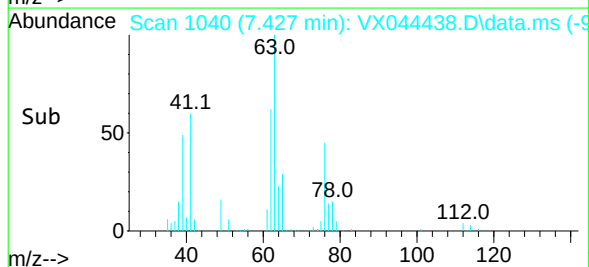
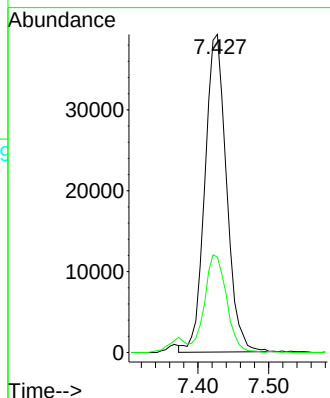
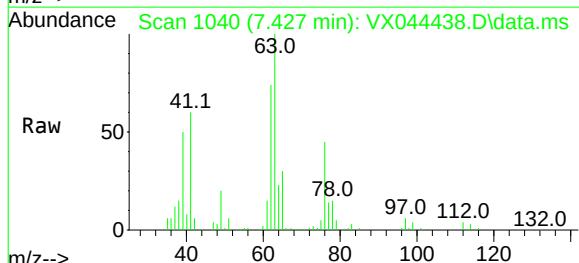
VSTDC050

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#46

Dibromomethane

Concen: 55.676 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

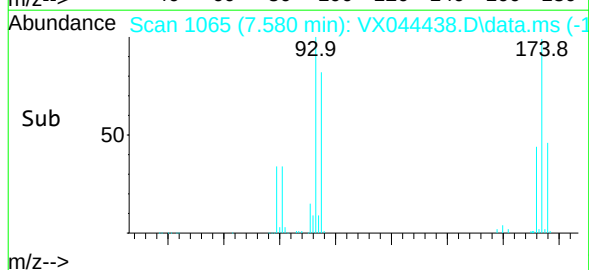
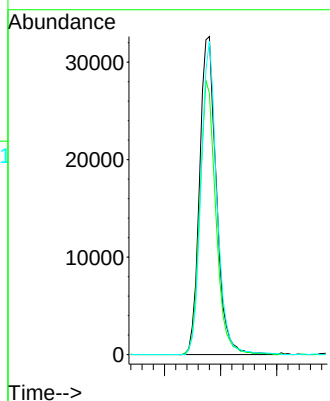
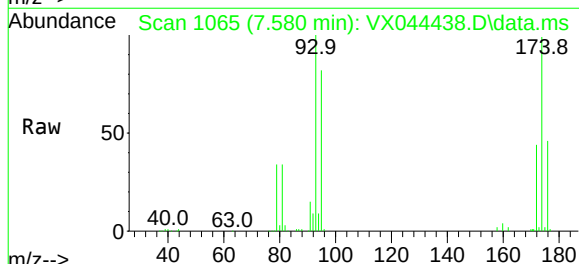
Tgt Ion: 93 Resp: 67796

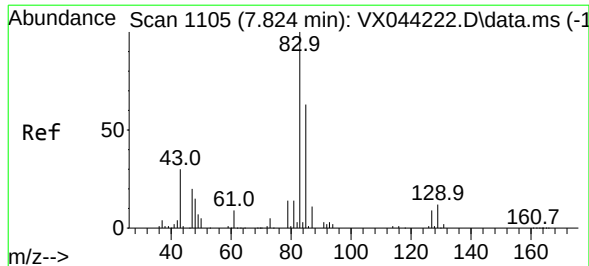
Ion Ratio Lower Upper

93 100

95 82.3 65.4 98.2

174 93.2 67.9 101.9





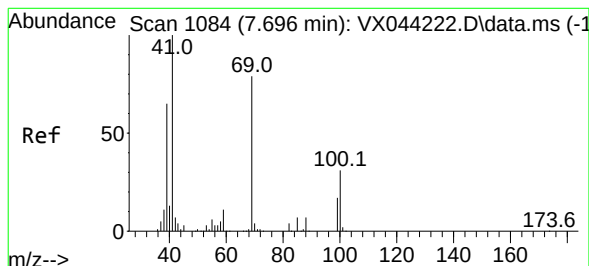
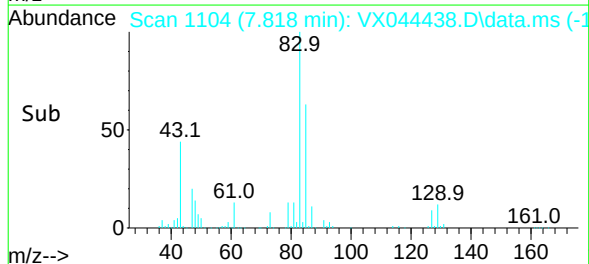
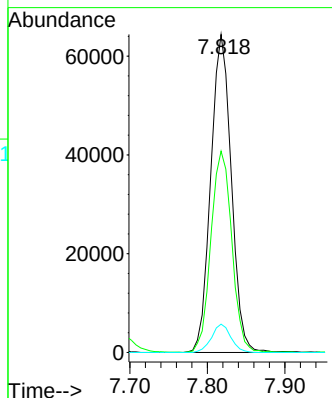
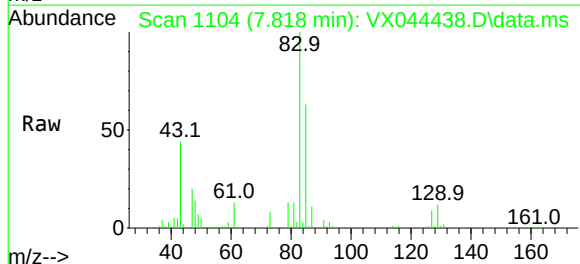
#47
Bromodichloromethane
Concen: 56.402 ug/l
RT: 7.818 min Scan# 1105
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDC050

Tgt Ion: 83 Resp: 118614
Ion Ratio Lower Upper
83 100
85 63.2 50.6 75.8
127 8.9 7.3 10.9

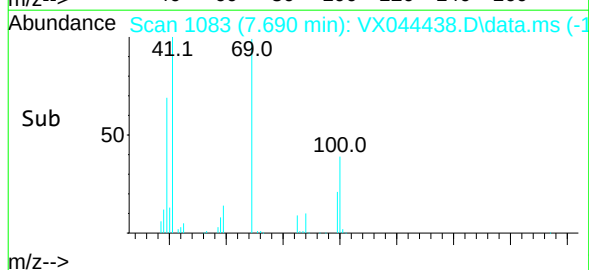
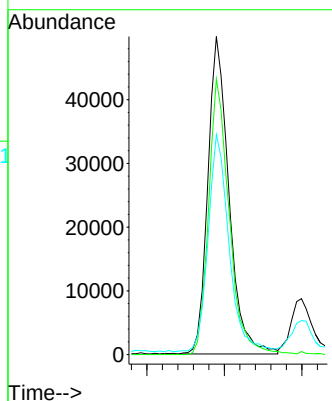
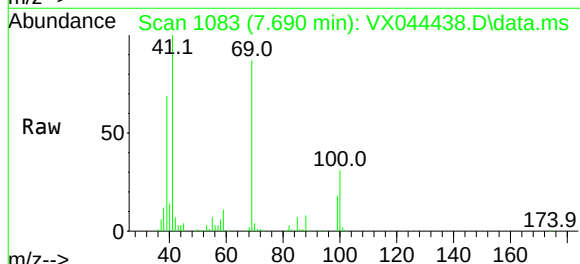
Manual Integrations
APPROVED

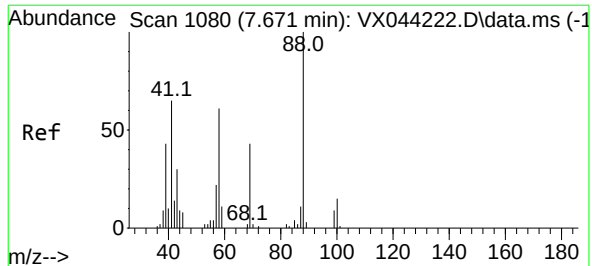
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#48
Methyl methacrylate
Concen: 49.554 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 41 Resp: 94040
Ion Ratio Lower Upper
41 100
69 85.0 62.4 93.6
39 67.5 53.3 79.9





#49

1,4-Dioxane

Concen: 906.120 ug/l

RT: 7.665 min Scan# 1080

Delta R.T. -0.006 min

Lab File: VX044438.D

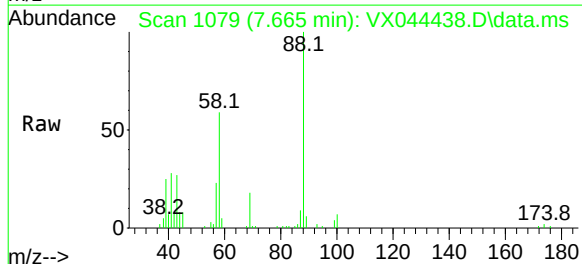
Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

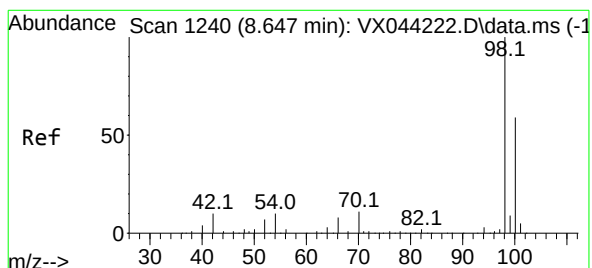
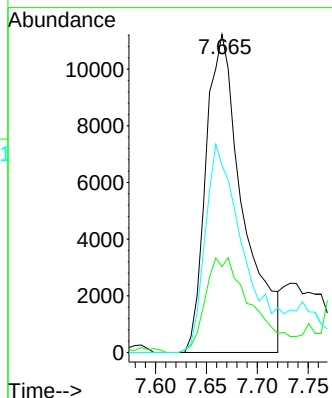
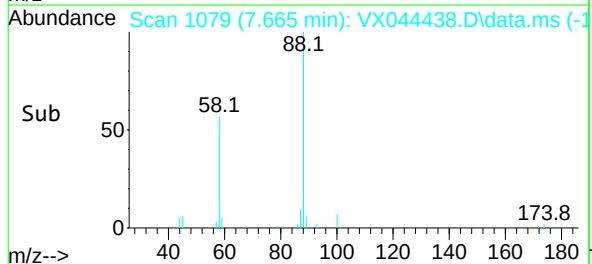
VSTDCCC050



Tgt Ion:	88	Resp:	28510
Ion	Ratio	Lower	Upper
88	100		
43	37.0	27.1	40.7
58	69.1	41.0	61.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#50

Toluene-d8

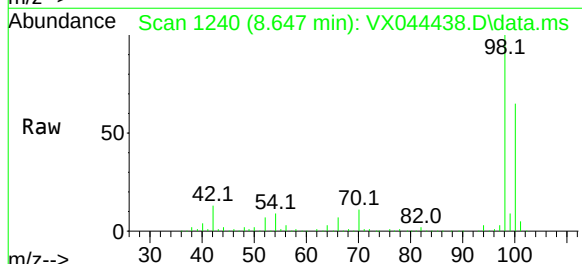
Concen: 56.385 ug/l

RT: 8.647 min Scan# 1240

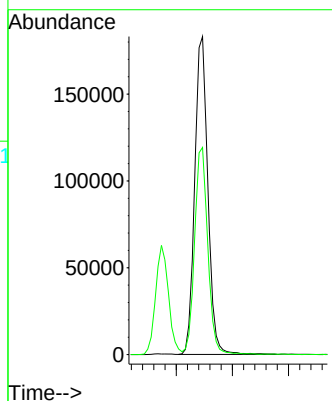
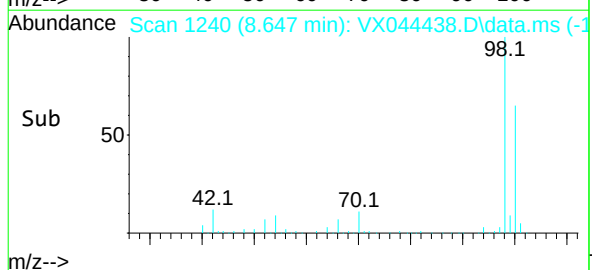
Delta R.T. -0.000 min

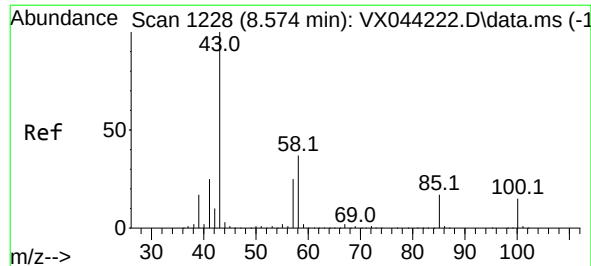
Lab File: VX044438.D

Acq: 20 Dec 2024 09:16



Tgt Ion:	98	Resp:	297779
Ion	Ratio	Lower	Upper
98	100		
100	65.4	51.5	77.3





#51

4-Methyl-2-Pentanone

Concen: 257.494 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 647258

Ion Ratio Lower Upper

43 100

58 37.4 29.4 44.0

Instrument :

MSVOA_X

ClientSampleId :

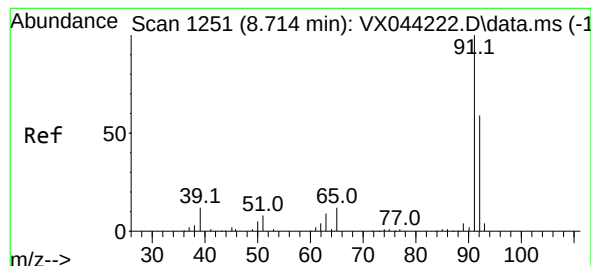
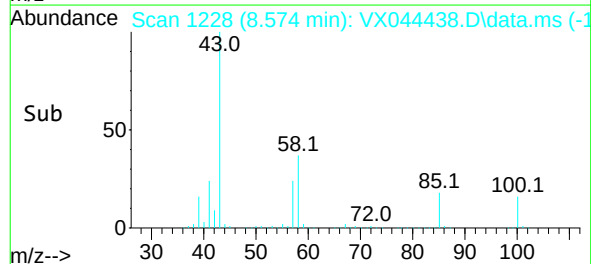
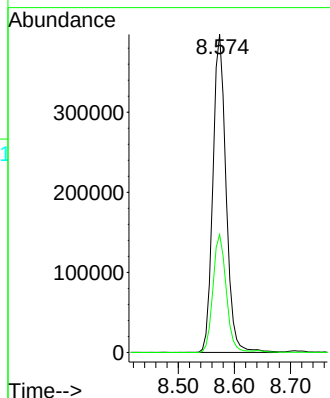
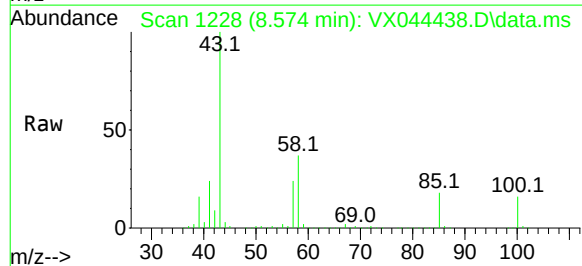
VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#52

Toluene

Concen: 54.120 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. -0.000 min

Lab File: VX044438.D

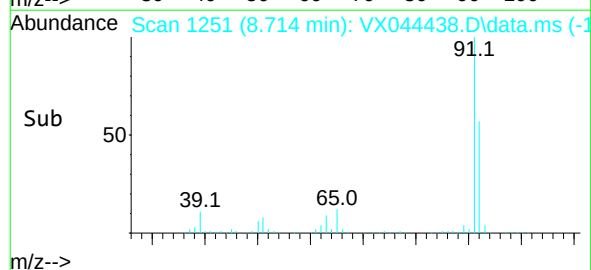
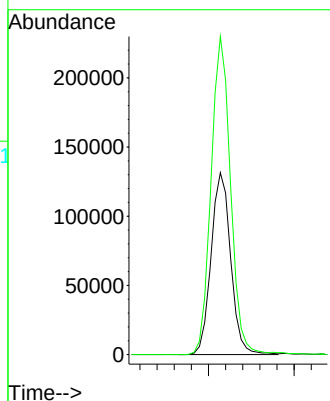
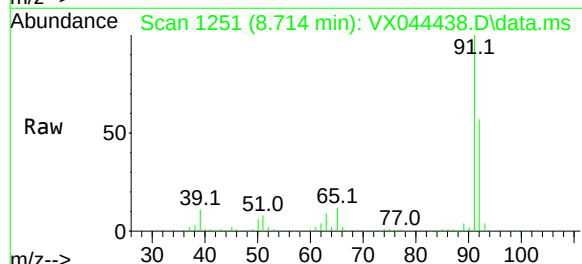
Acq: 20 Dec 2024 09:16

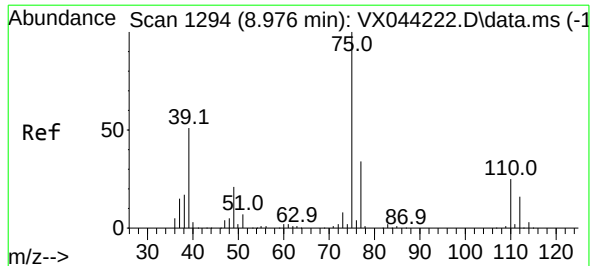
Tgt Ion: 92 Resp: 208798

Ion Ratio Lower Upper

92 100

91 174.6 137.0 205.6





#53

t-1,3-Dichloropropene

Concen: 51.640 ug/l

RT: 8.976 min Scan# 12

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 116841

Ion Ratio Lower Upper

75 100

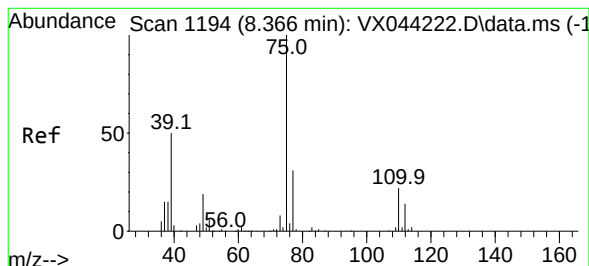
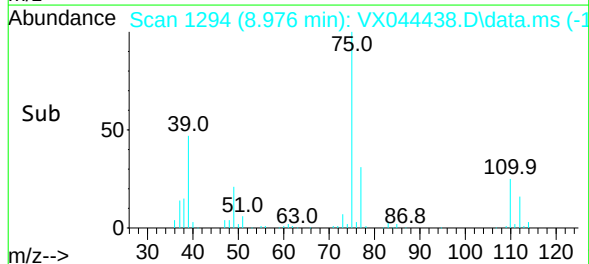
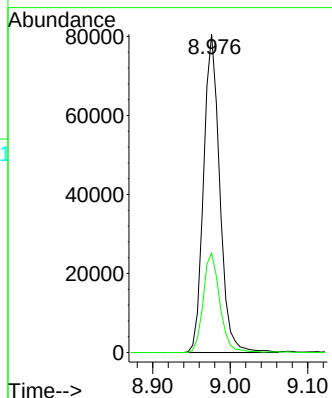
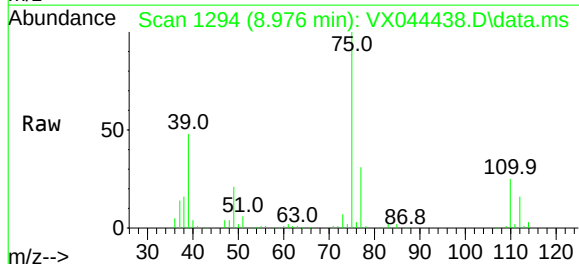
77 31.2 27.2 40.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#54

cis-1,3-Dichloropropene

Concen: 56.913 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. -0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

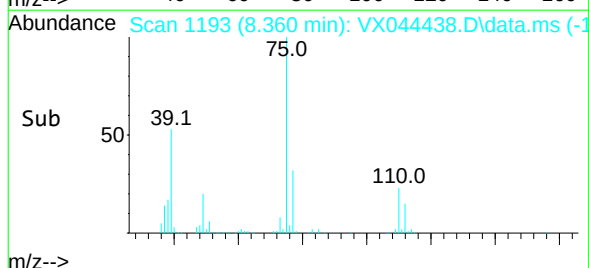
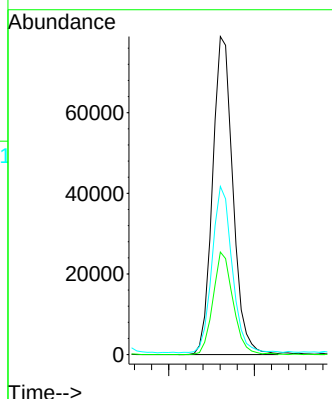
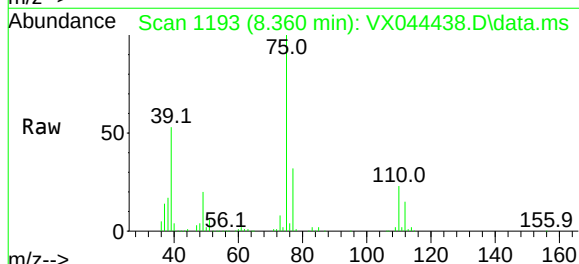
Tgt Ion: 75 Resp: 130320

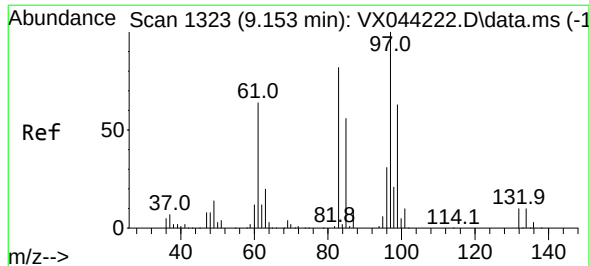
Ion Ratio Lower Upper

75 100

77 32.2 24.7 37.1

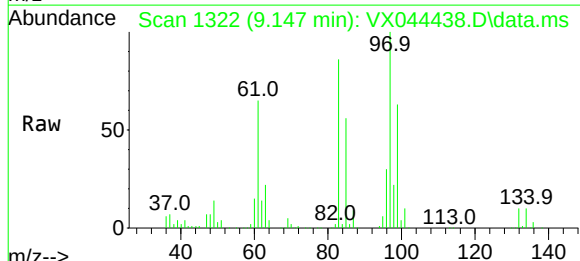
39 52.3 40.3 60.5





#55
1,1,2-Trichloroethane
Concen: 55.124 ug/l
RT: 9.147 min Scan# 1323
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

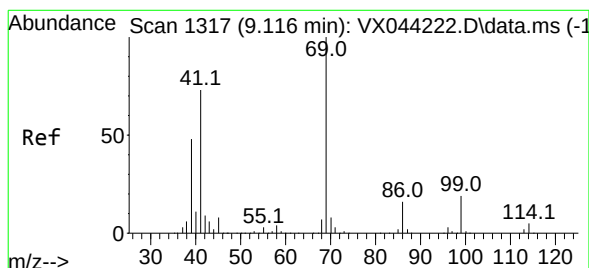
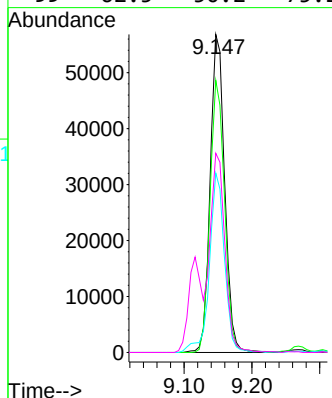
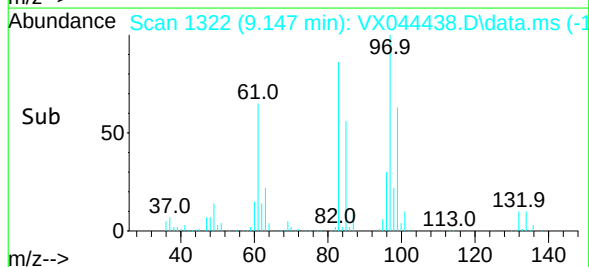
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion	Ratio	Lower	Upper
97	100		
83	85.6	65.3	97.9
85	56.4	44.6	67.0
99	62.5	50.2	75.2

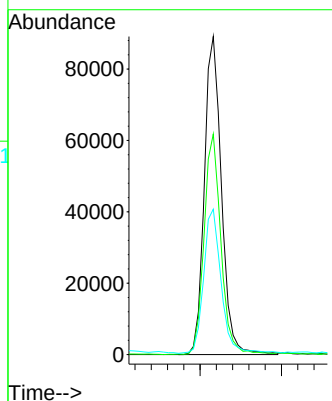
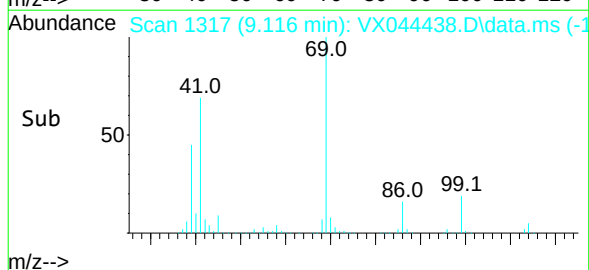
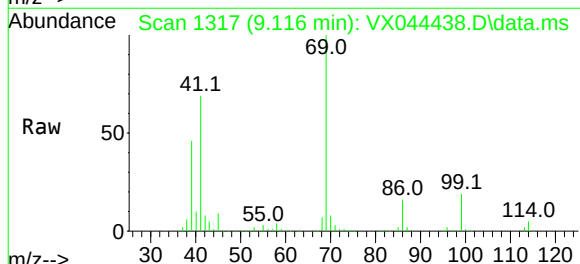
Manual Integrations
APPROVED

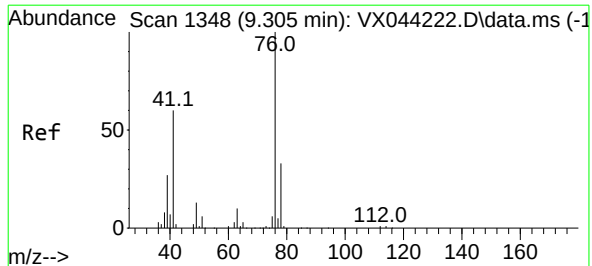
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#56
Ethyl methacrylate
Concen: 53.800 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion	Ratio	Lower	Upper
69	100		
41	68.3	56.6	85.0
39	46.2	37.4	56.0





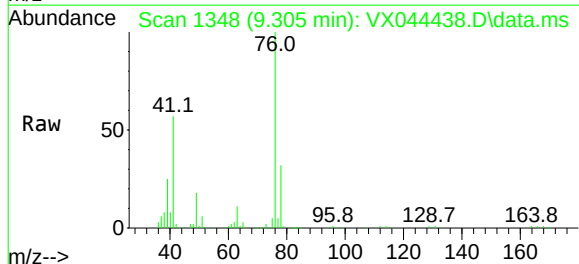
#57
1,3-Dichloropropane
Concen: 53.824 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

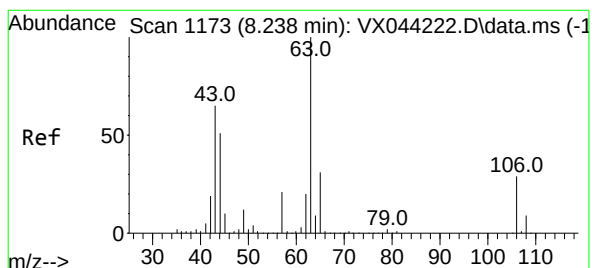
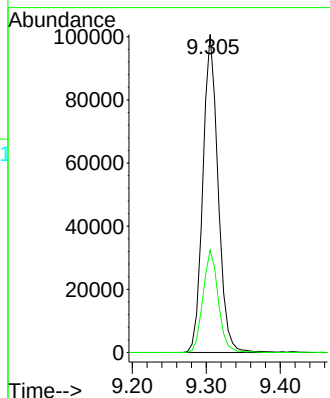
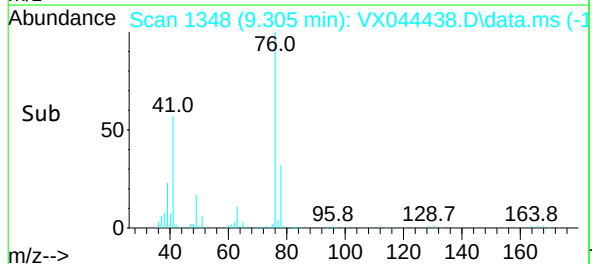
VSTDCCC050



Tgt Ion: 76 Resp: 143596
Ion Ratio Lower Upper
76 100
78 32.4 26.5 39.7

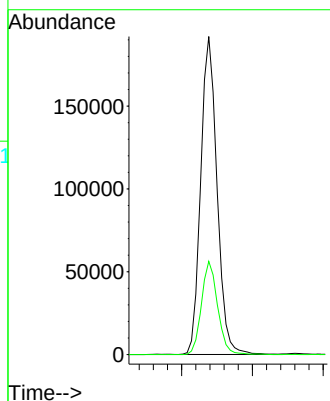
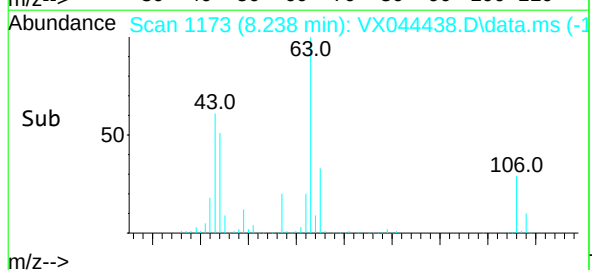
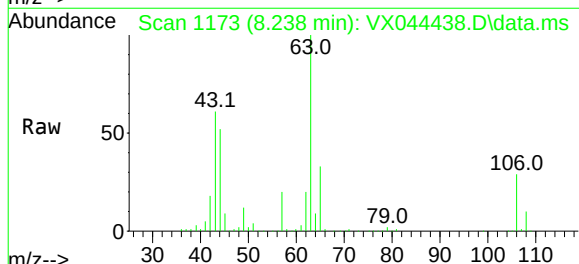
Manual Integrations
APPROVED

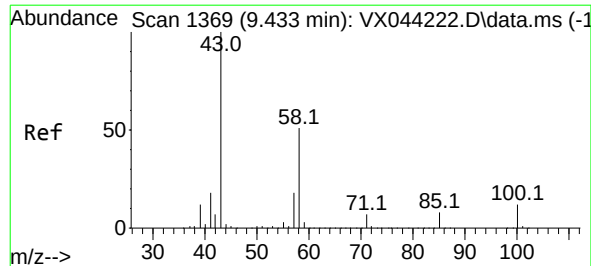
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#58
2-Chloroethyl Vinyl ether
Concen: 252.070 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 63 Resp: 307620
Ion Ratio Lower Upper
63 100
106 29.0 22.8 34.2





#59

2-Hexanone

Concen: 256.860 ug/l

RT: 9.427 min Scan# 1369

Delta R.T. -0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 467347

Ion Ratio Lower Upper

43 100

58 53.0 25.7 77.0

Instrument :

MSVOA_X

ClientSampleId :

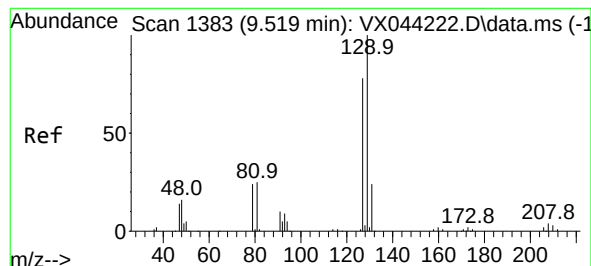
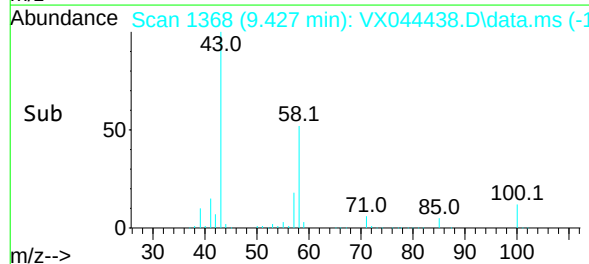
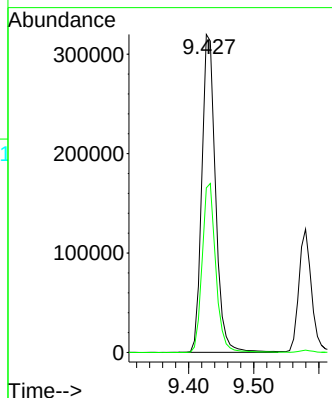
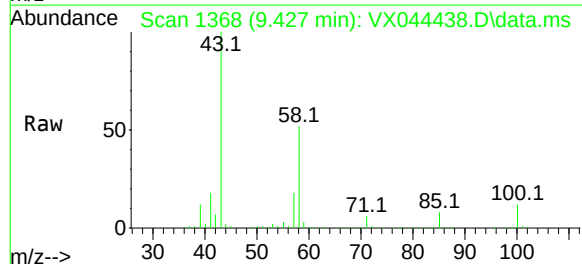
VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#60

Dibromochloromethane

Concen: 52.901 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX044438.D

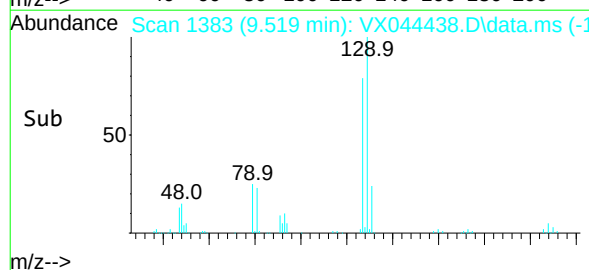
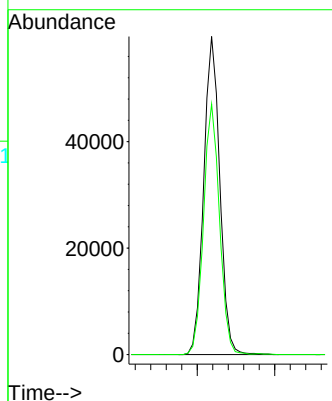
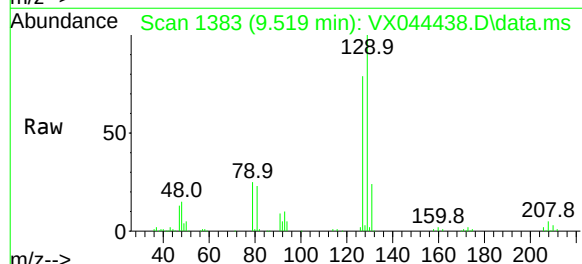
Acq: 20 Dec 2024 09:16

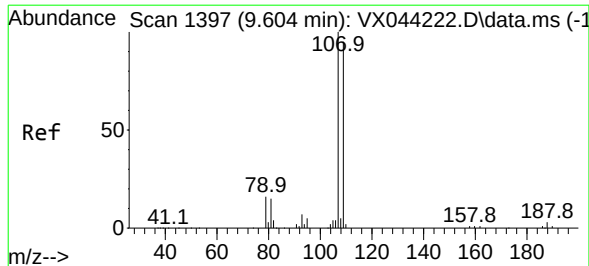
Tgt Ion:129 Resp: 86207

Ion Ratio Lower Upper

129 100

127 78.0 38.5 115.3





#61

1,2-Dibromoethane

Concen: 55.721 ug/l

RT: 9.604 min Scan# 1397

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:107 Resp: 86930

Ion Ratio Lower Upper

107 100

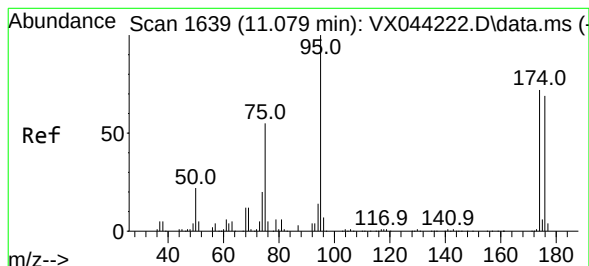
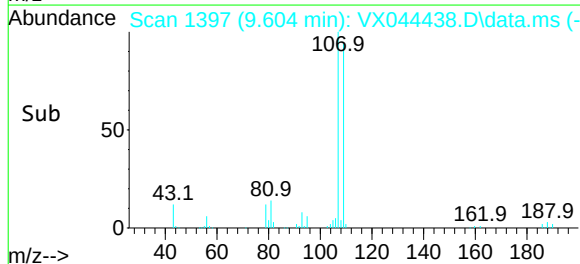
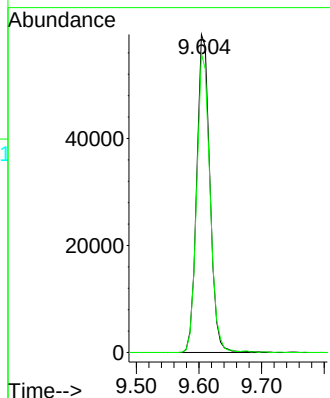
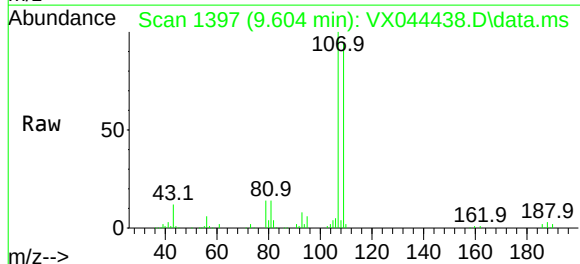
109 95.3 77.0 115.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#62

4-Bromofluorobenzene

Concen: 55.640 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

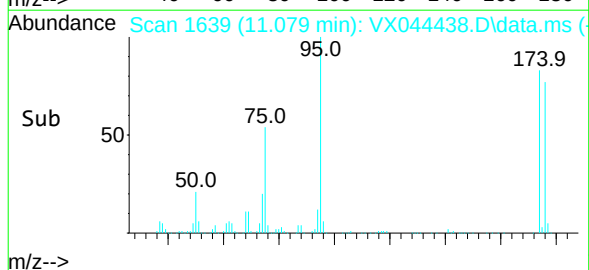
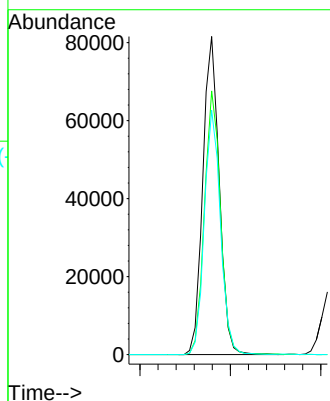
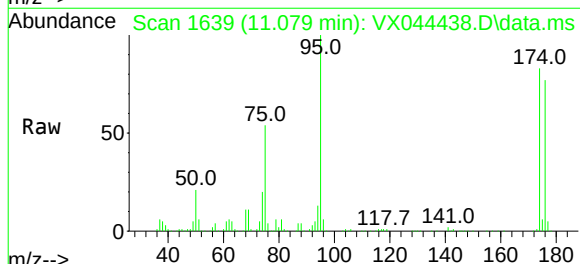
Tgt Ion: 95 Resp: 102676

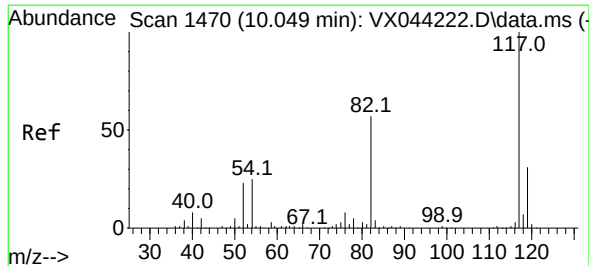
Ion Ratio Lower Upper

95 100

174 81.4 0.0 145.8

176 75.6 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:117 Resp: 197543

Ion Ratio Lower Upper

117 100

82 52.5 45.8 68.8

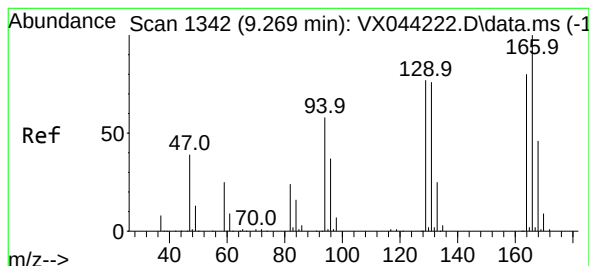
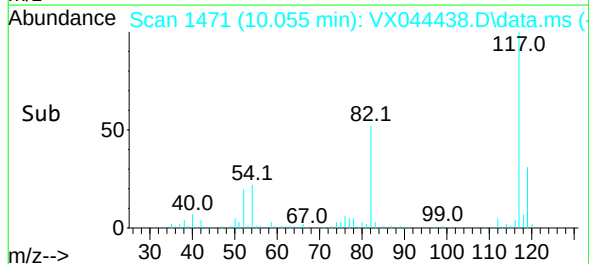
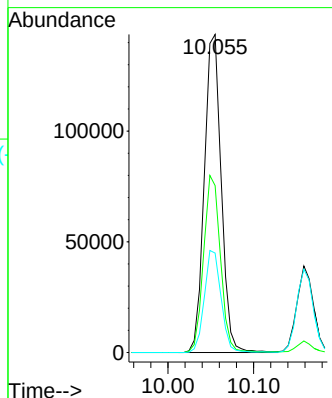
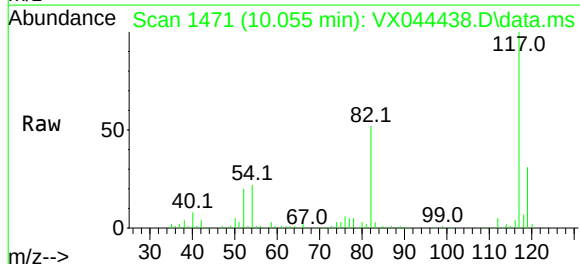
119 31.3 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#64

Tetrachloroethene

Concen: 57.001 ug/l

RT: 9.269 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Tgt Ion:164 Resp: 74735

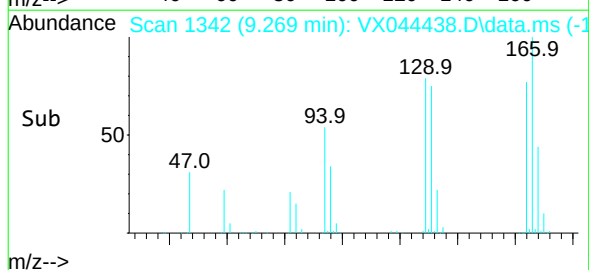
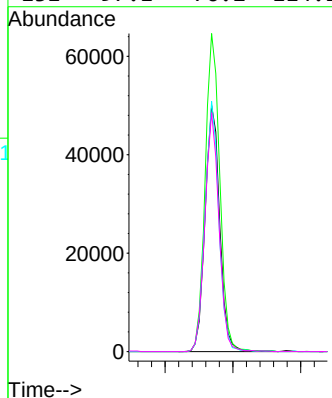
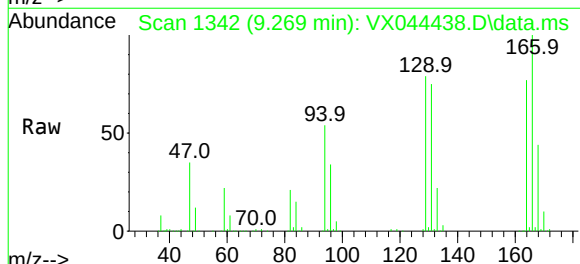
Ion Ratio Lower Upper

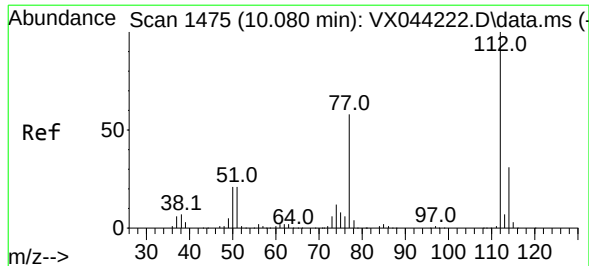
164 100

166 129.3 100.4 150.6

129 101.8 77.2 115.8

131 97.1 76.2 114.2





#65

Chlorobenzene

Concen: 55.402 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:112 Resp: 234513

Ion Ratio Lower Upper

112 100

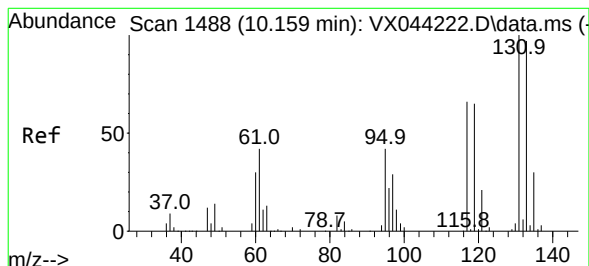
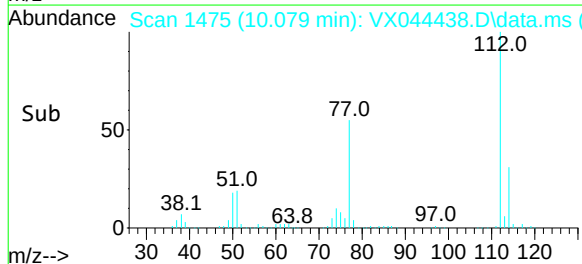
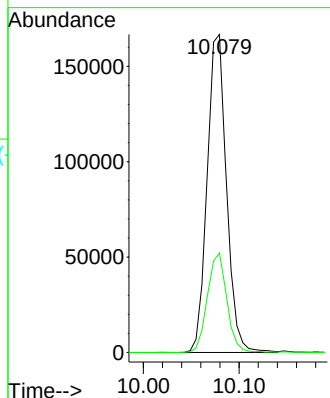
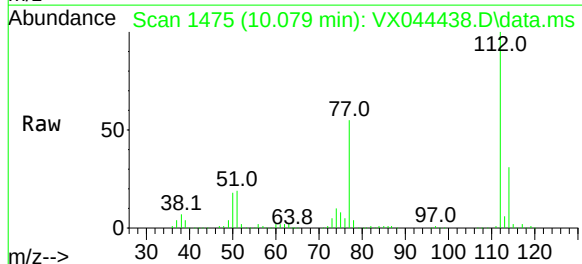
114 31.3 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 56.959 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

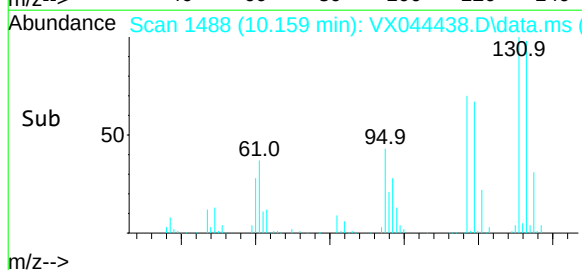
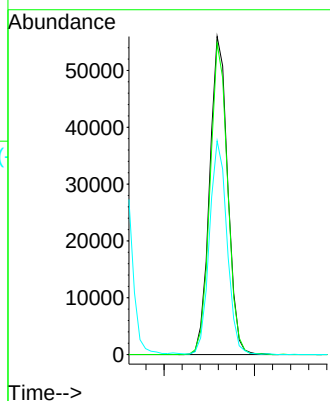
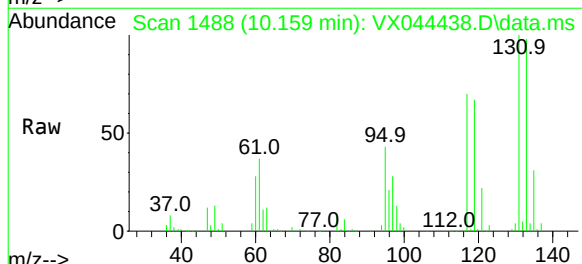
Tgt Ion:131 Resp: 77487

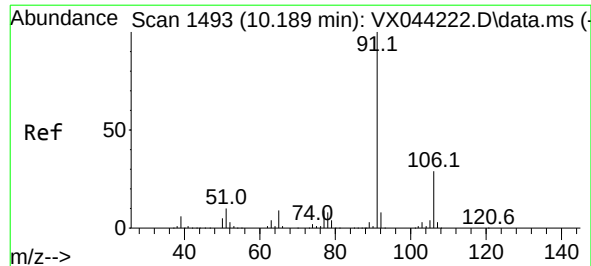
Ion Ratio Lower Upper

131 100

133 95.5 47.3 141.8

119 65.6 31.6 95.0





#67

Ethyl Benzene

Concen: 54.936 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 401792

Ion Ratio Lower Upper

91 100

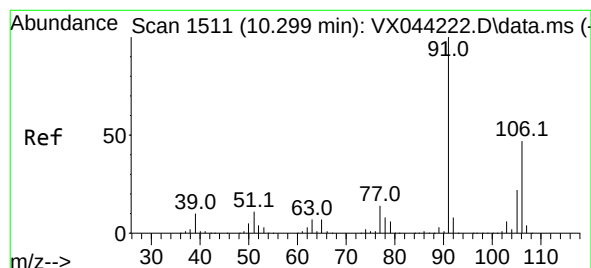
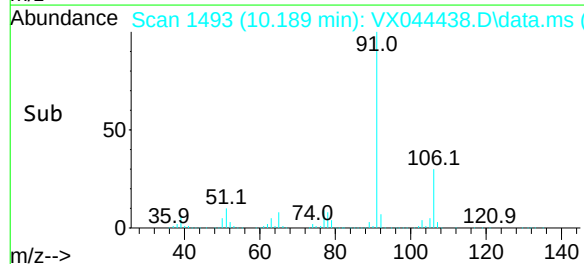
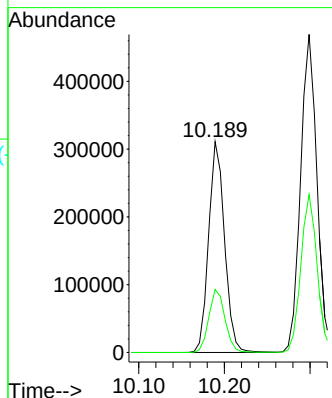
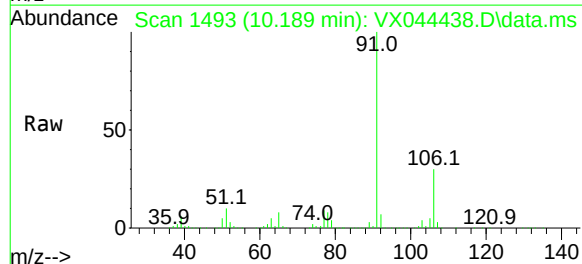
106 29.9 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#68

m/p-Xylenes

Concen: 114.771 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX044438.D

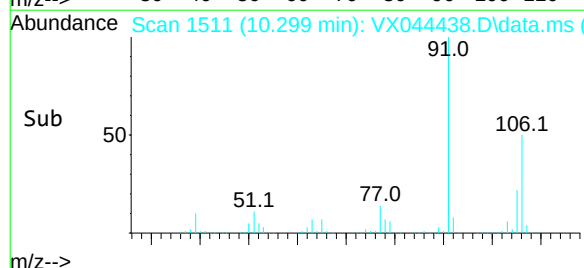
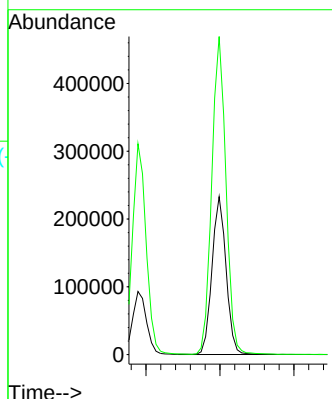
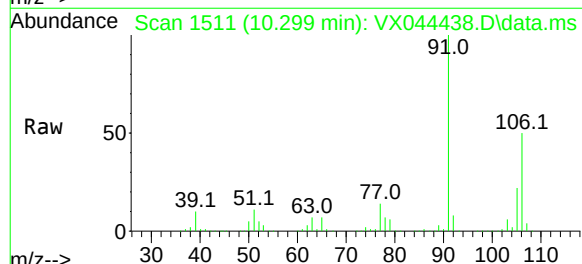
Acq: 20 Dec 2024 09:16

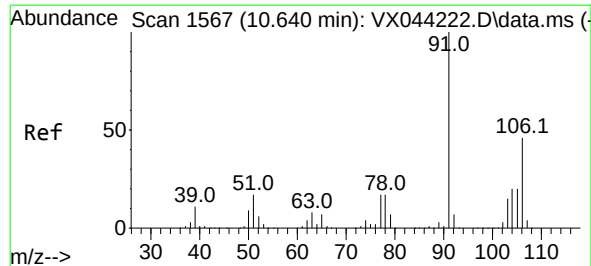
Tgt Ion:106 Resp: 308013

Ion Ratio Lower Upper

106 100

91 202.5 170.2 255.2





#69

o-Xylene

Concen: 54.389 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Tgt Ion:106 Resp: 147688

Ion Ratio Lower Upper

106 100

91 220.8 112.3 337.0

Instrument :

MSVOA_X

ClientSampleId :

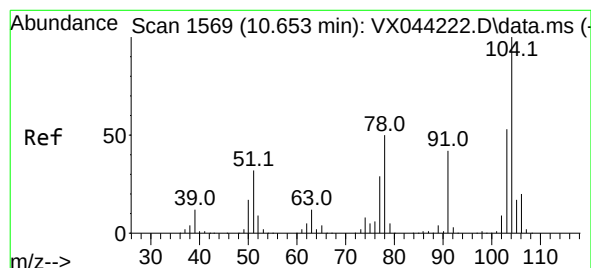
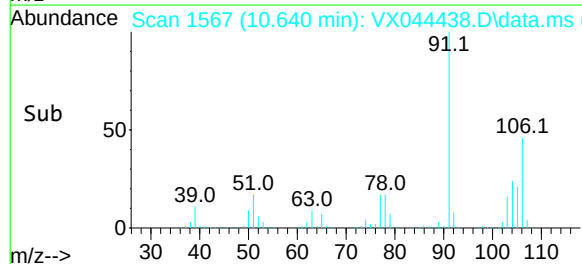
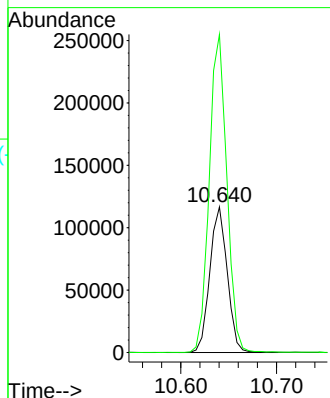
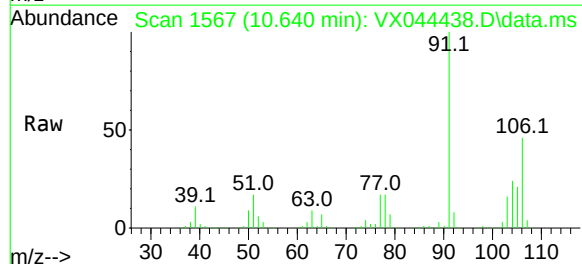
VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#70

Styrene

Concen: 57.862 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

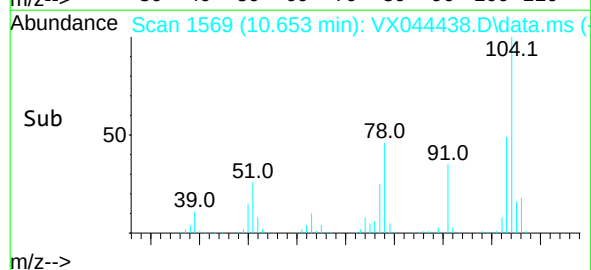
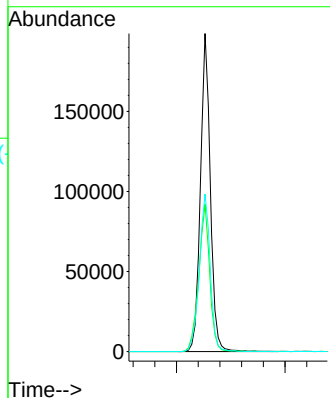
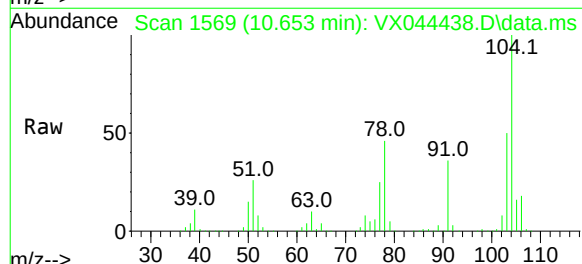
Tgt Ion:104 Resp: 251875

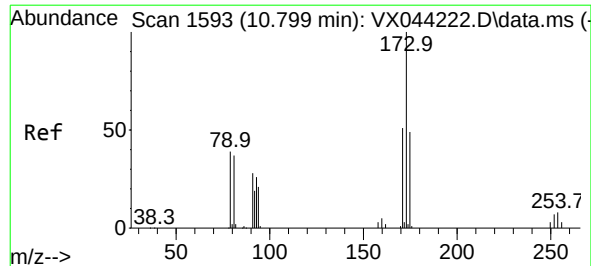
Ion Ratio Lower Upper

104 100

78 51.5 44.6 67.0

103 54.8 45.4 68.0





#71

Bromoform

Concen: 54.671 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

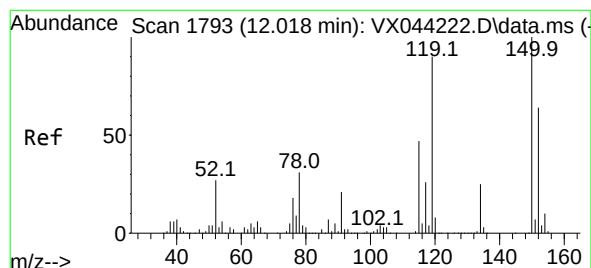
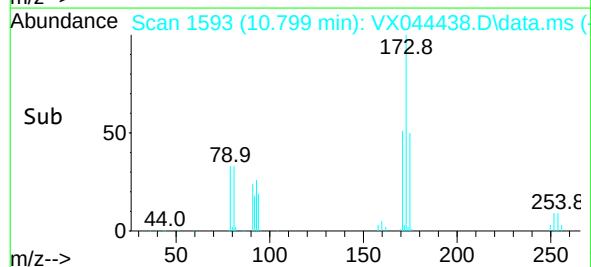
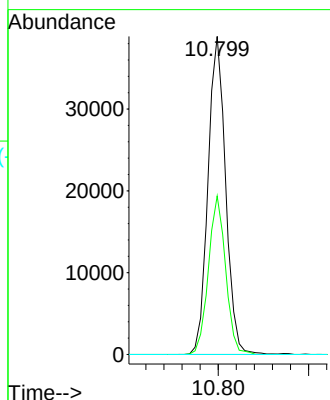
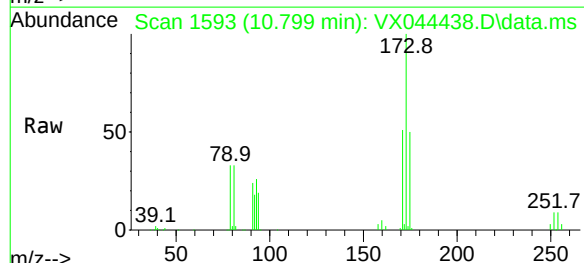
Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:	173	Resp:	52602
Ion Ratio	Lower	Upper	
173	100		
175	48.7	23.8	71.4
254	0.0	0.0	0.0

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

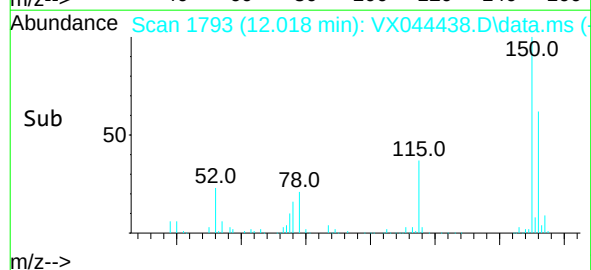
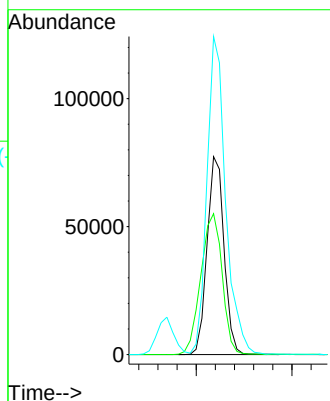
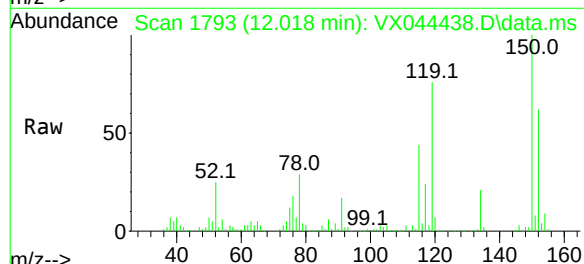
RT: 12.018 min Scan# 1793

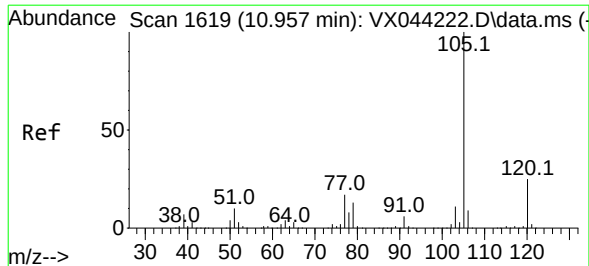
Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Tgt Ion:	152	Resp:	95339
Ion Ratio	Lower	Upper	
152	100		
115	89.6	44.5	133.3
150	177.4	0.0	353.8





#73

Isopropylbenzene

Concen: 53.495 ug/l

RT: 10.957 min Scan# 1619

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 105 Resp: 390438

Ion Ratio Lower Upper

105 100

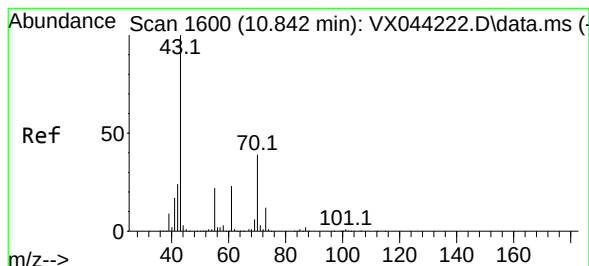
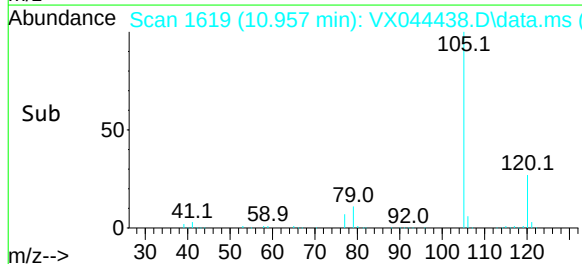
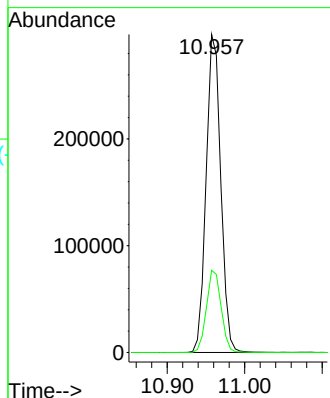
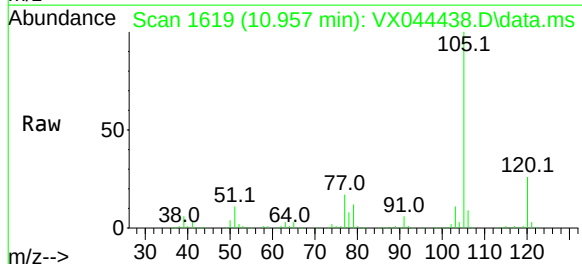
120 26.0 13.1 39.3

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 12/23/2024

Supervised By : Mahesh Dadoda 12/24/2024



#74

N-ethyl acetate

Concen: 50.885 ug/l

RT: 10.842 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 171638

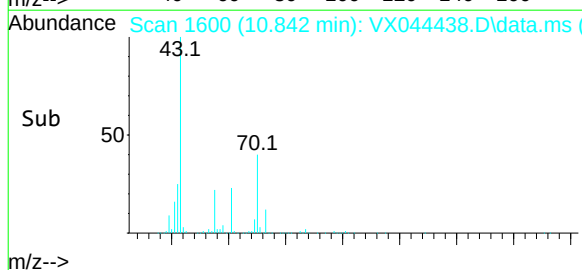
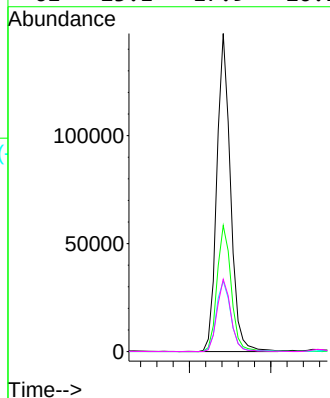
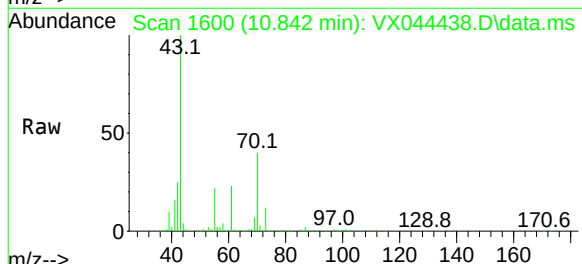
Ion Ratio Lower Upper

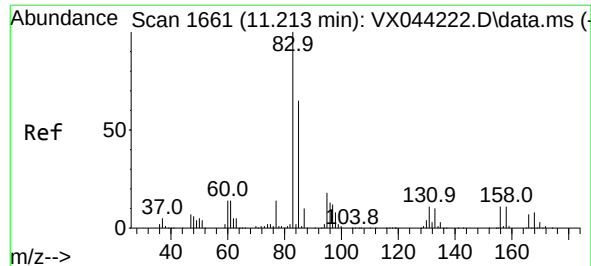
43 100

70 41.1 31.9 47.9

55 23.7 17.9 26.9

61 23.1 17.9 26.9





#75

1,1,2,2-Tetrachloroethane

Concen: 52.145 ug/l

RT: 11.213 min Scan# 1661

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 132190

Ion Ratio Lower Upper

83 100

131 9.8 5.1 15.4

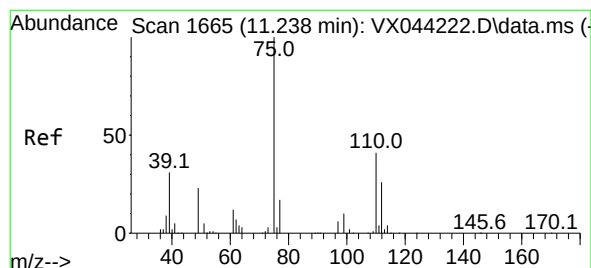
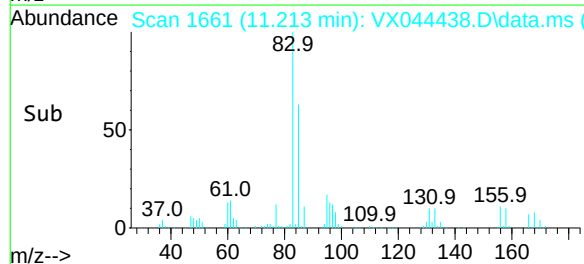
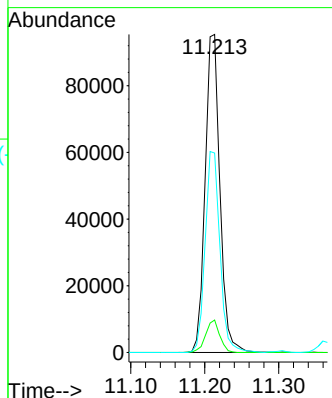
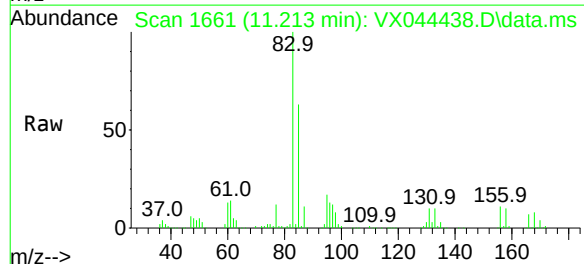
85 63.4 32.5 97.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#76

1,2,3-Trichloropropane

Concen: 50.641 ug/l m

RT: 11.238 min Scan# 1665

Delta R.T. -0.000 min

Lab File: VX044438.D

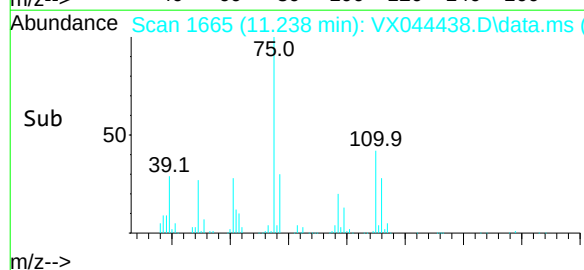
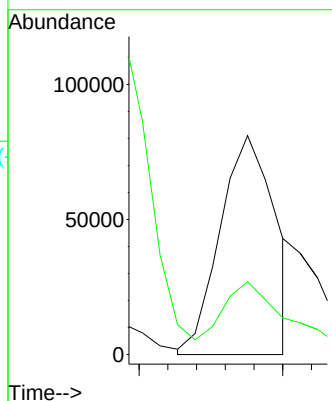
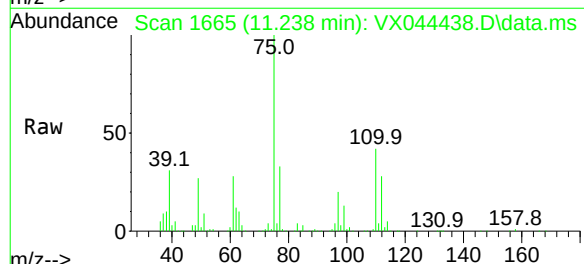
Acq: 20 Dec 2024 09:16

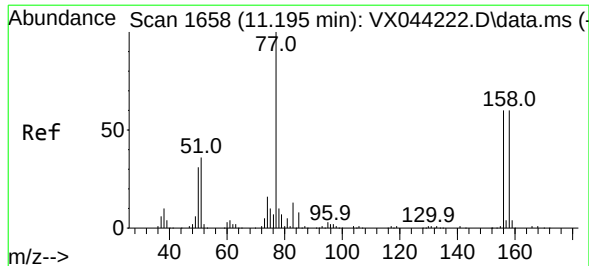
Tgt Ion: 75 Resp: 107800

Ion Ratio Lower Upper

75 100

77 40.8 20.9 62.7





#77

Bromobenzene

Concen: 53.953 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:156 Resp: 95489

Ion Ratio Lower Upper

156 100

77 155.1 82.6 247.8

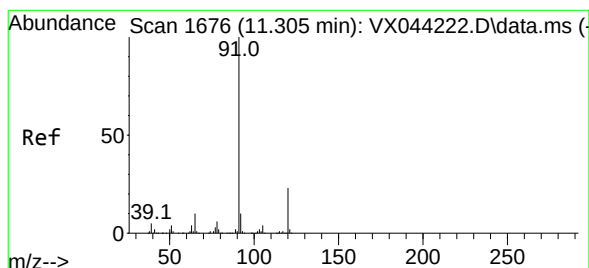
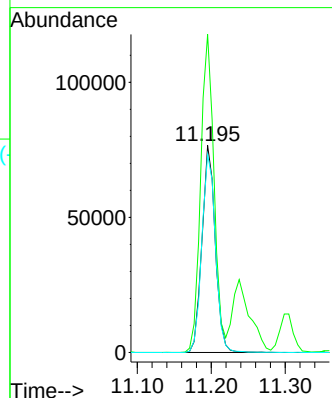
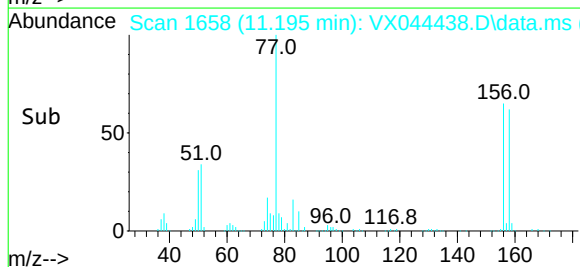
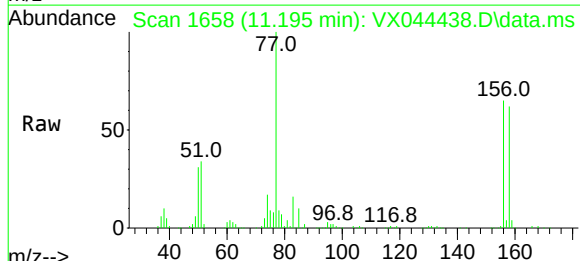
158 98.5 48.8 146.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#78

n-propylbenzene

Concen: 54.741 ug/l

RT: 11.299 min Scan# 1675

Delta R.T. -0.006 min

Lab File: VX044438.D

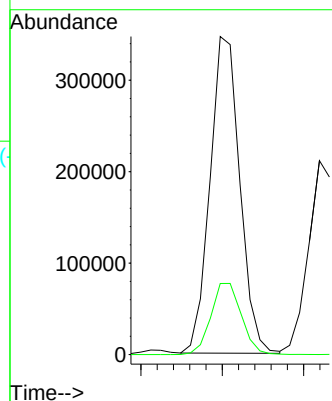
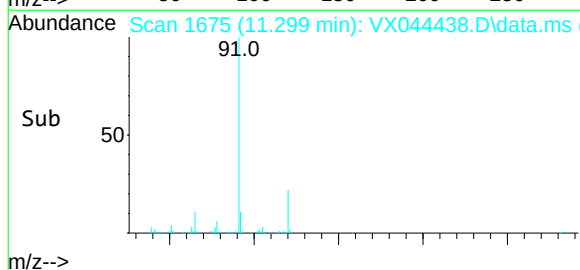
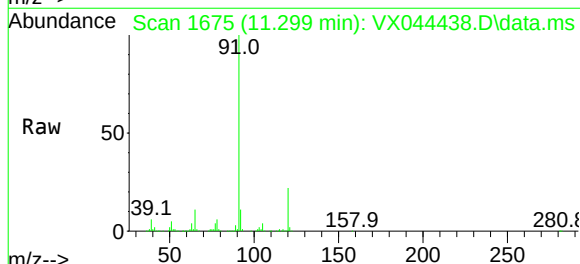
Acq: 20 Dec 2024 09:16

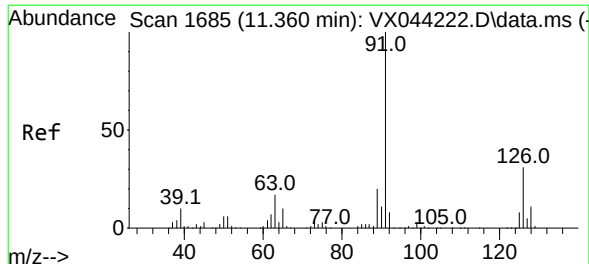
Tgt Ion: 91 Resp: 441589

Ion Ratio Lower Upper

91 100

120 23.1 11.0 33.0





#79

2-Chlorotoluene

Concen: 51.311 ug/l

RT: 11.360 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 267696

Ion Ratio Lower Upper

91 100

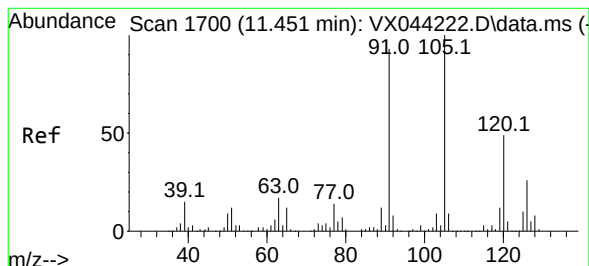
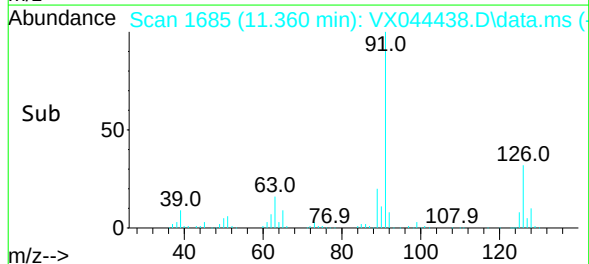
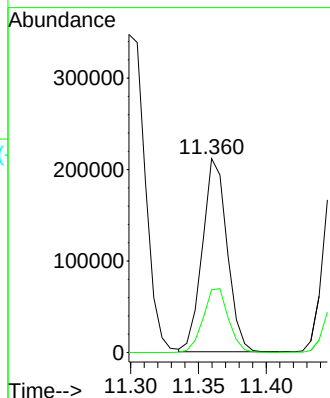
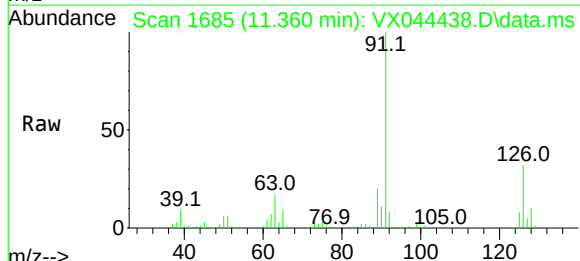
126 33.9 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#80

1,3,5-Trimethylbenzene

Concen: 53.284 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX044438.D

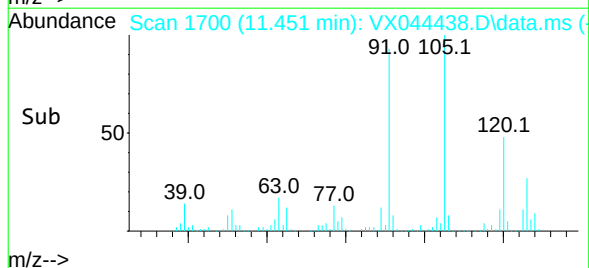
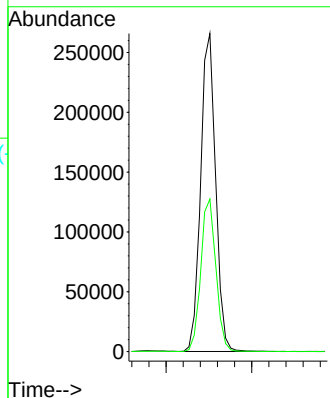
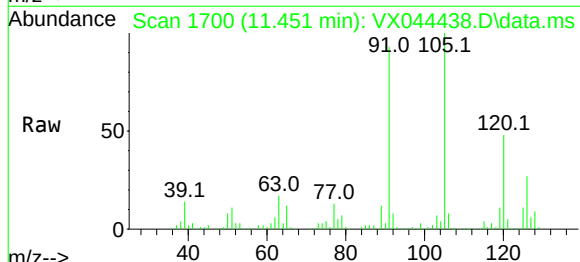
Acq: 20 Dec 2024 09:16

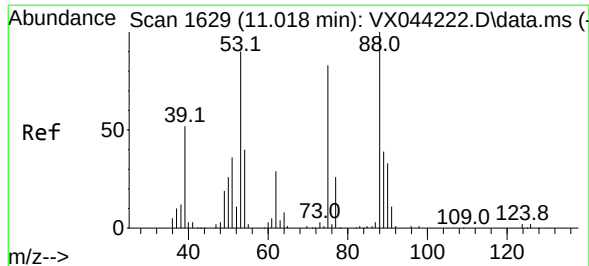
Tgt Ion:105 Resp: 322510

Ion Ratio Lower Upper

105 100

120 48.5 23.8 71.4





#81

trans-1,4-Dichloro-2-butene

Concen: 47.498 ug/l

RT: 11.018 min Scan# 1629

Delta R.T. -0.000 min

Lab File: VX044438.D

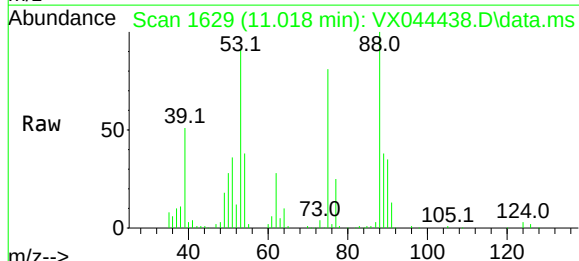
Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

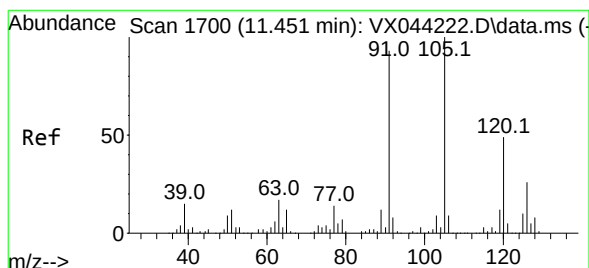
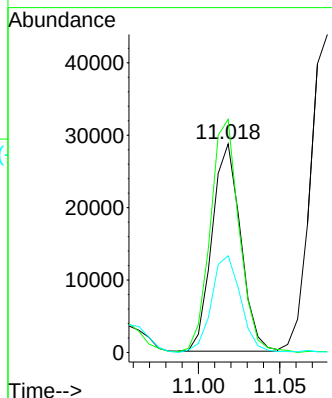
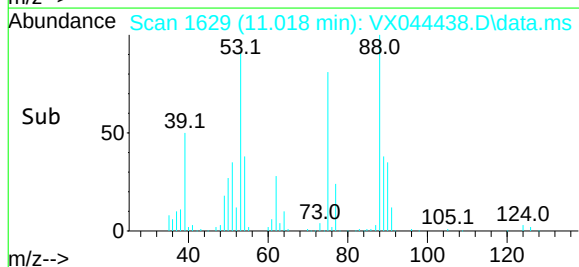
VSTDCCC050



Tgt Ion:	75	Resp:	35051
Ion	Ratio	Lower	Upper
75	100		
53	114.3	93.6	140.4
89	47.8	37.3	55.9

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#82

4-Chlorotoluene

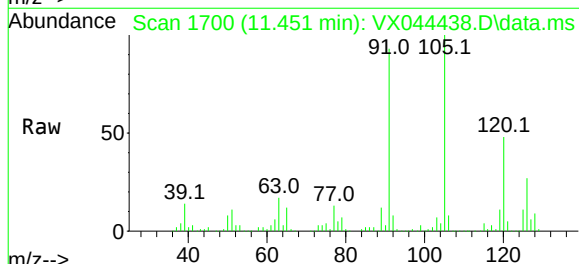
Concen: 52.929 ug/l

RT: 11.451 min Scan# 1700

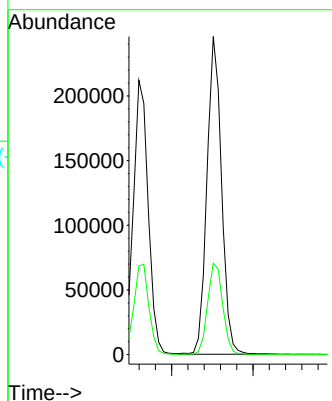
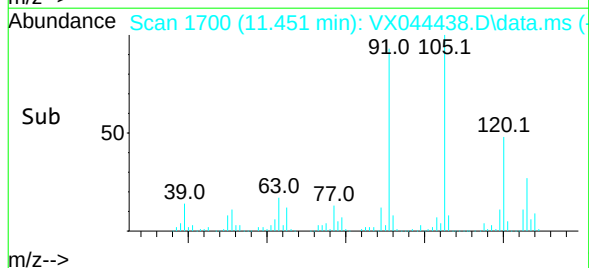
Delta R.T. -0.000 min

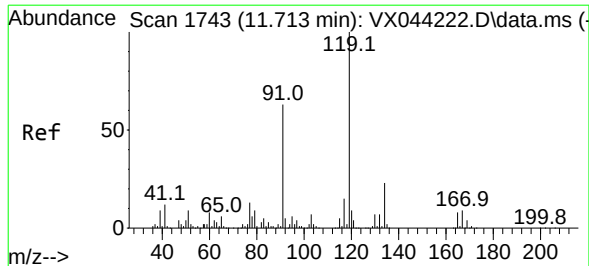
Lab File: VX044438.D

Acq: 20 Dec 2024 09:16



Tgt Ion:	91	Resp:	305777
Ion	Ratio	Lower	Upper
91	100		
126	29.7	14.5	43.5





#83

tert-Butylbenzene

Concen: 53.600 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:119 Resp: 320615

Ion Ratio Lower Upper

119 100

91 59.4 30.9 92.5

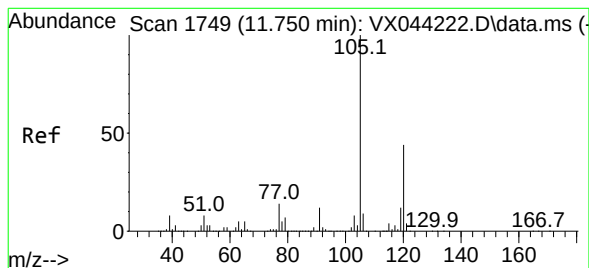
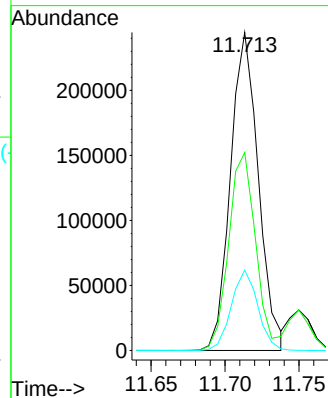
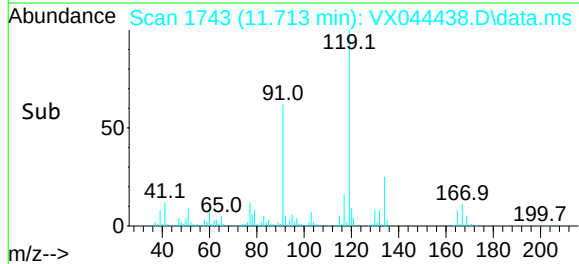
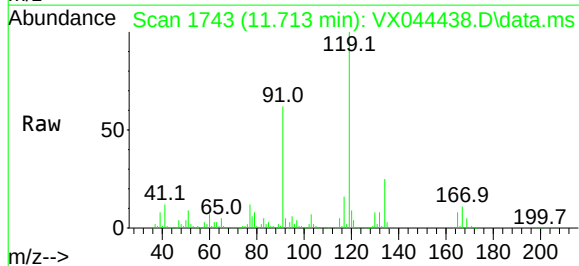
134 24.0 11.5 34.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#84

1,2,4-Trimethylbenzene

Concen: 55.123 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX044438.D

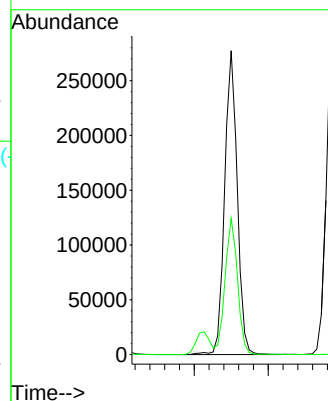
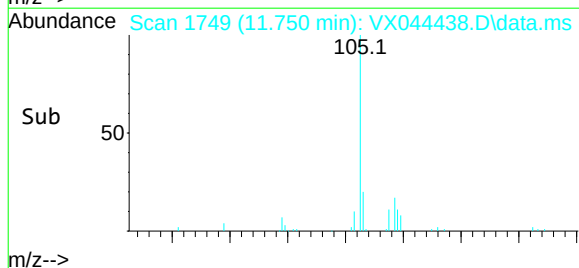
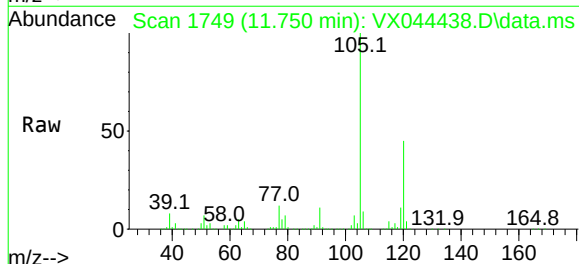
Acq: 20 Dec 2024 09:16

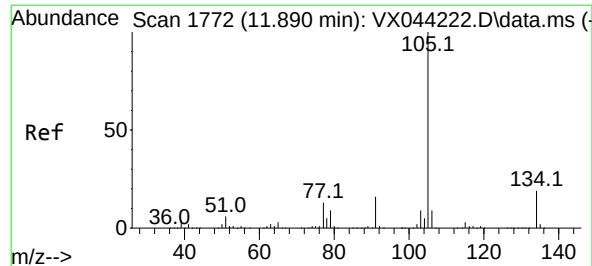
Tgt Ion:105 Resp: 327657

Ion Ratio Lower Upper

105 100

120 44.6 21.7 65.1





#85

sec-Butylbenzene

Concen: 54.989 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:105 Resp: 399310

Ion Ratio Lower Upper

105 100

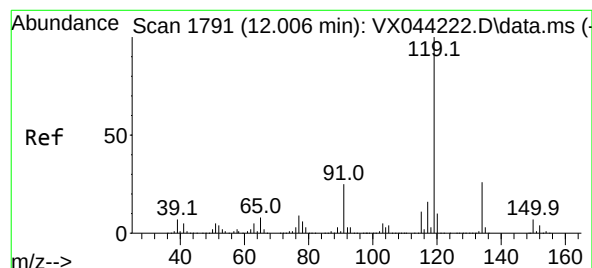
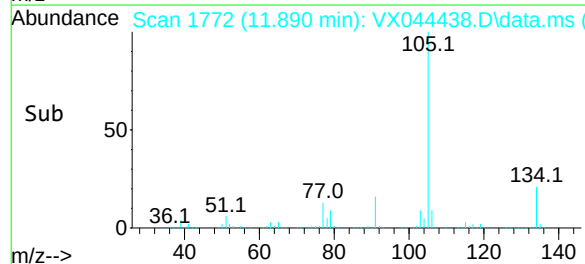
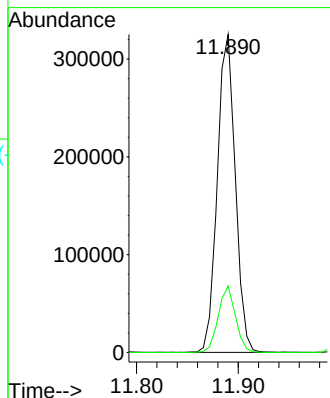
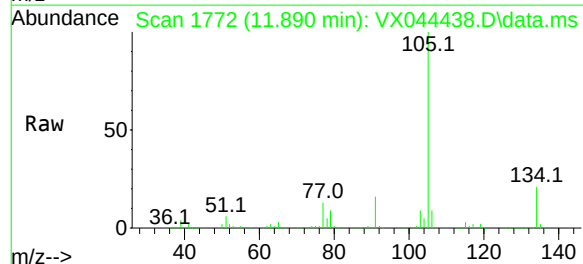
134 20.1 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#86

p-Isopropyltoluene

Concen: 55.691 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

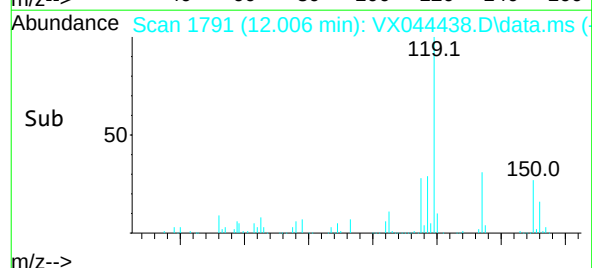
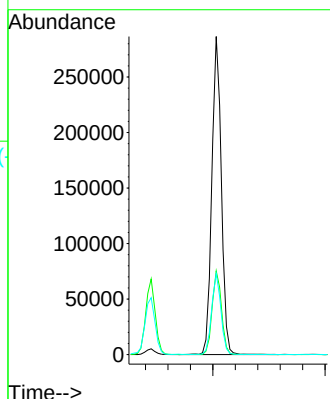
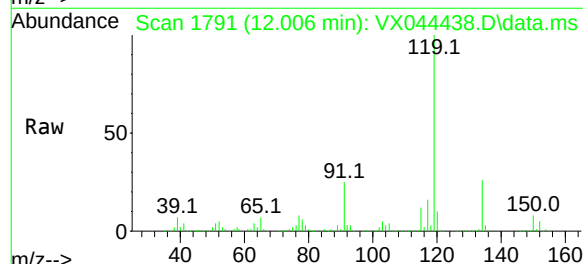
Tgt Ion:119 Resp: 336593

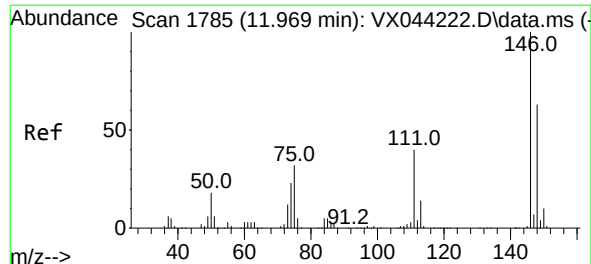
Ion Ratio Lower Upper

119 100

134 26.0 12.8 38.4

91 24.8 13.0 39.0





#87

1,3-Dichlorobenzene

Concen: 55.839 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDC050

Tgt Ion:146 Resp: 172628

Ion Ratio Lower Upper

146 100

111 40.7 21.4 64.2

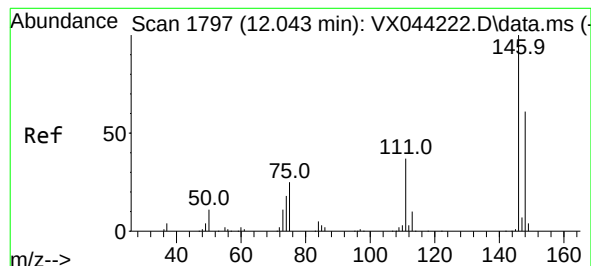
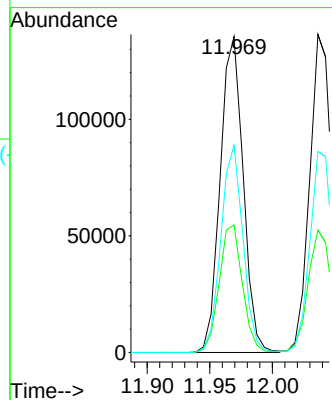
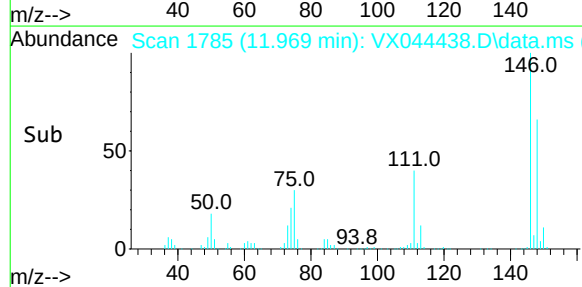
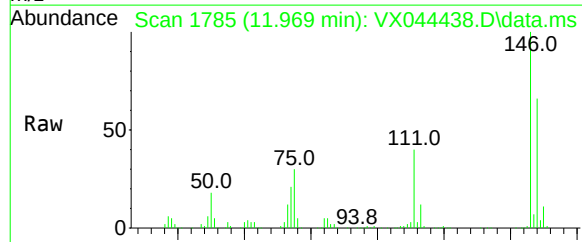
148 63.2 31.7 95.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#88

1,4-Dichlorobenzene

Concen: 53.422 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. -0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

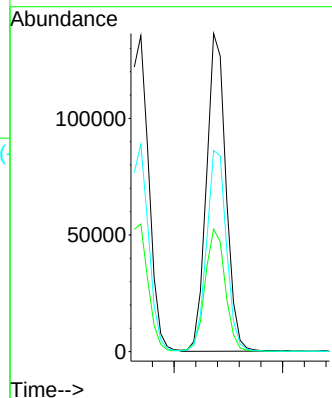
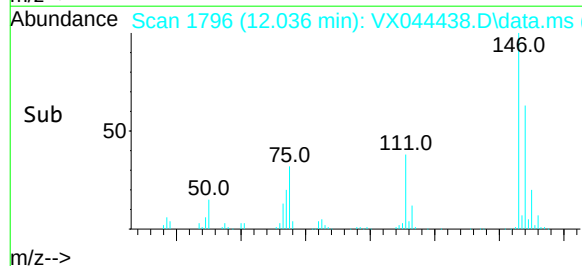
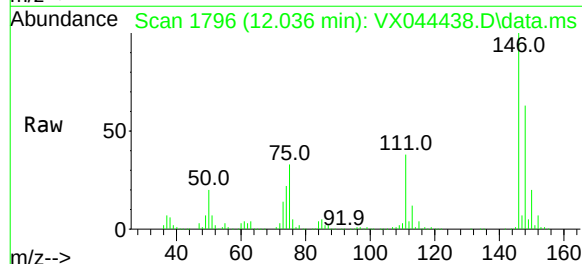
Tgt Ion:146 Resp: 169778

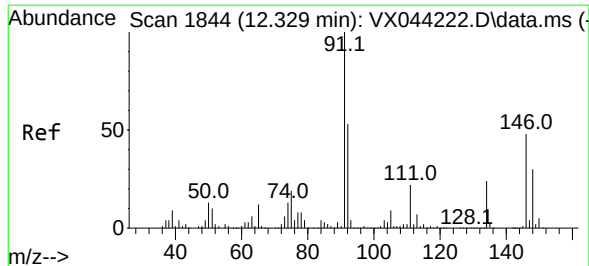
Ion Ratio Lower Upper

146 100

111 39.9 21.0 63.0

148 65.0 32.3 96.8





#89

n-Butylbenzene

Concen: 57.503 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 292244

Ion Ratio Lower Upper

91 100

92 53.4 26.6 79.7

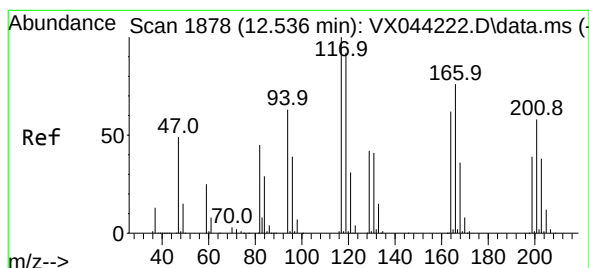
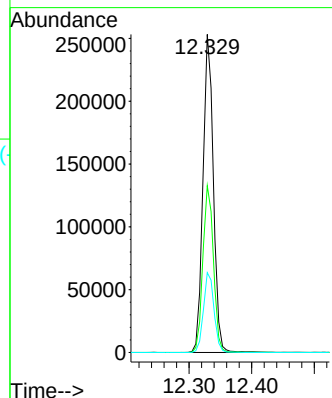
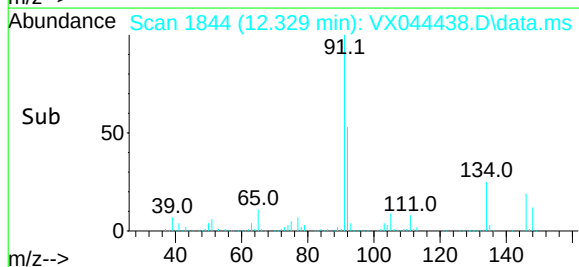
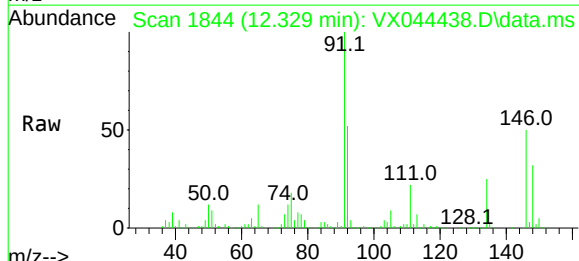
134 25.5 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#90

Hexachloroethane

Concen: 57.385 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX044438.D

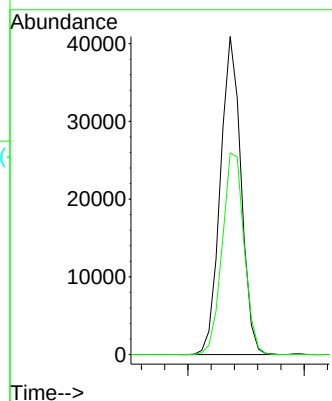
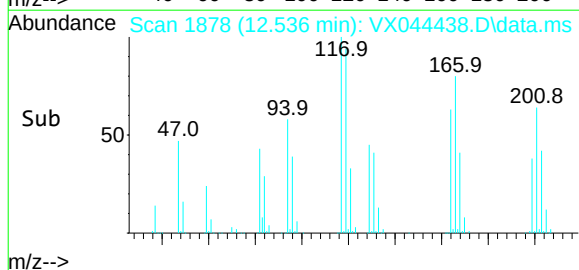
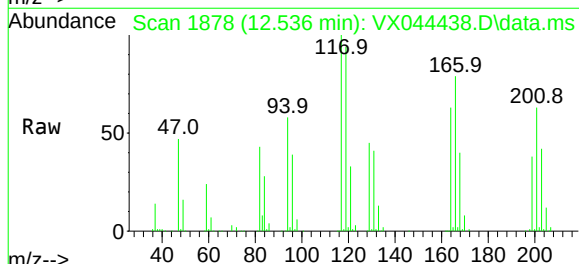
Acq: 20 Dec 2024 09:16

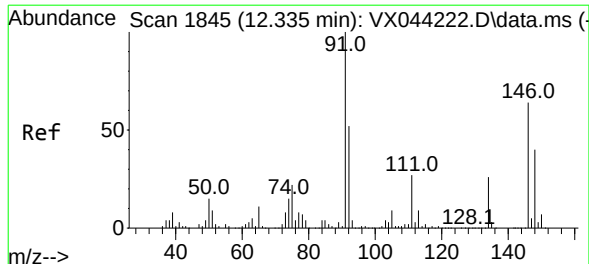
Tgt Ion:117 Resp: 50629

Ion Ratio Lower Upper

117 100

201 67.2 31.4 94.2





#91

1,2-Dichlorobenzene

Concen: 54.042 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:146 Resp: 173478

Ion Ratio Lower Upper

146 100

111 42.5 21.4 64.3

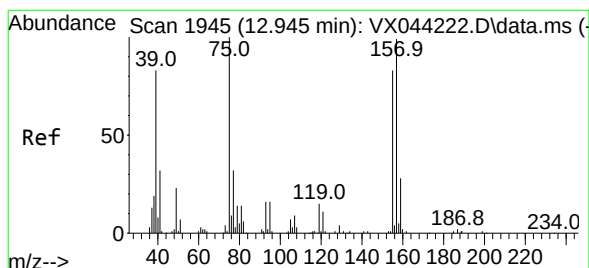
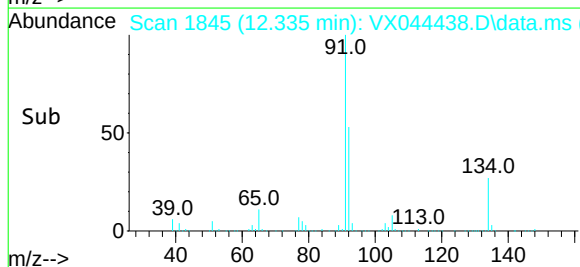
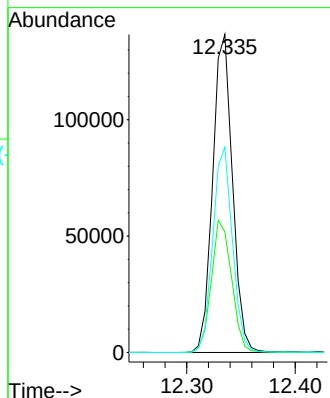
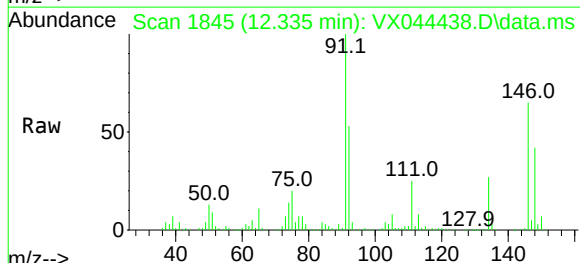
148 64.2 31.6 95.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 49.022 ug/l

RT: 12.939 min Scan# 1944

Delta R.T. -0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

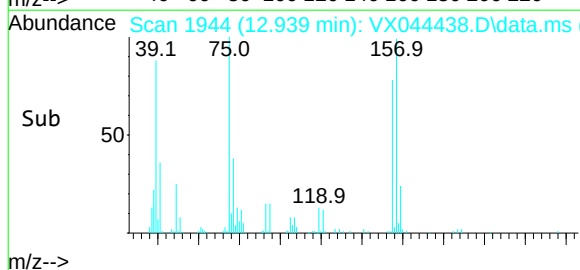
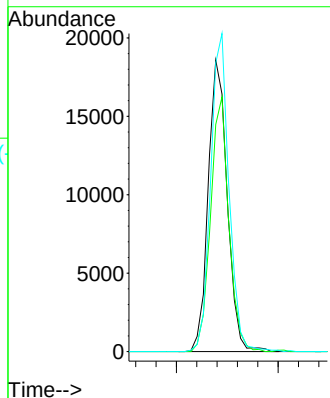
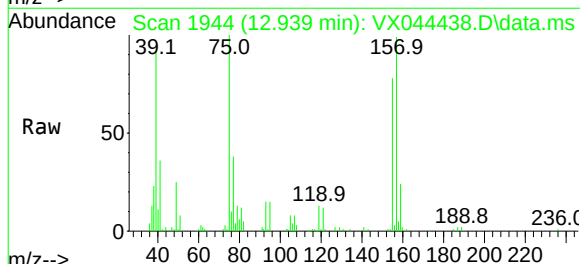
Tgt Ion: 75 Resp: 24124

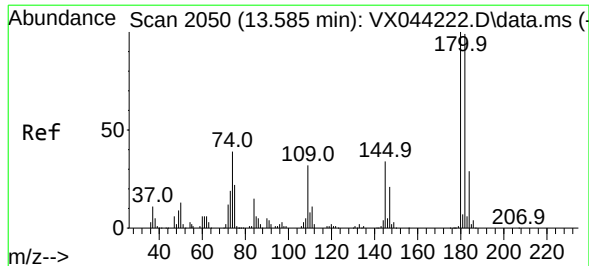
Ion Ratio Lower Upper

75 100

155 83.8 38.1 114.3

157 105.4 47.2 141.6





#93

1,2,4-Trichlorobenzene

Concen: 59.504 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:180 Resp: 104720

Ion Ratio Lower Upper

180 100

182 96.1 48.0 144.2

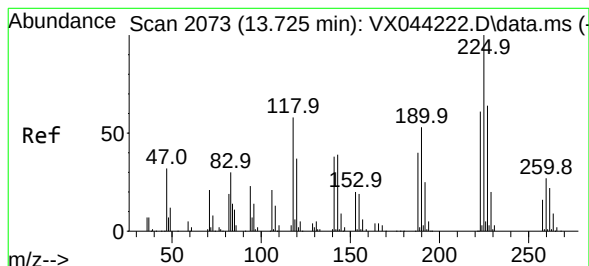
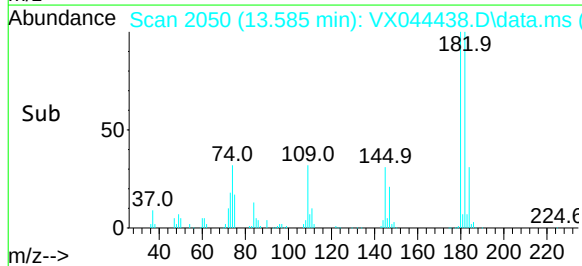
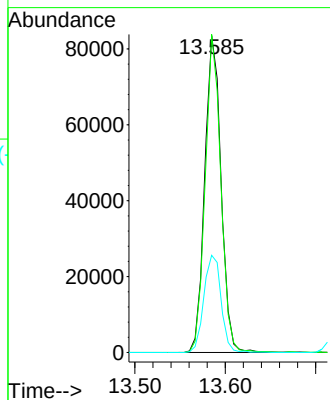
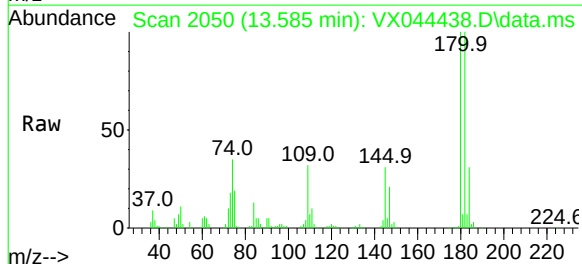
145 32.4 16.6 49.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#94

Hexachlorobutadiene

Concen: 60.942 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

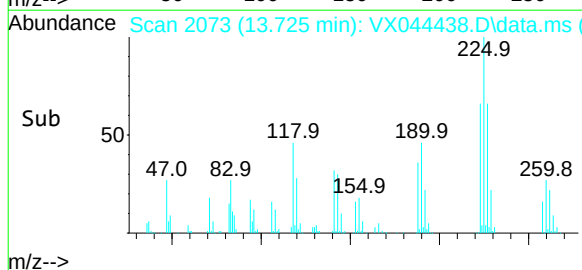
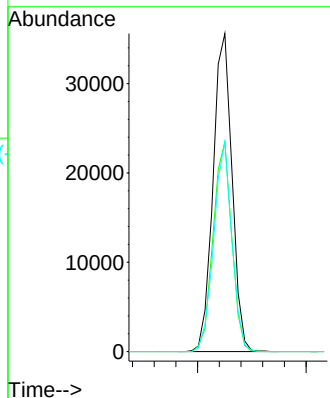
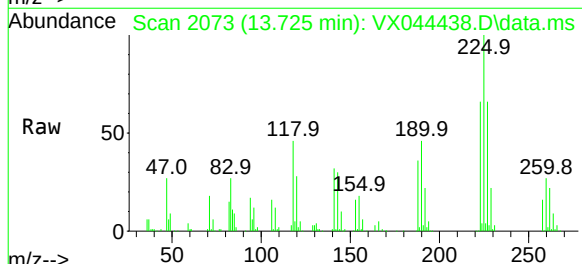
Tgt Ion:225 Resp: 43140

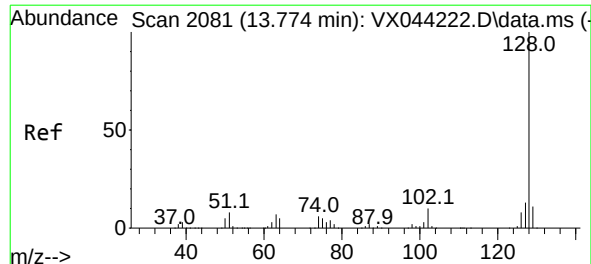
Ion Ratio Lower Upper

225 100

223 64.7 30.8 92.4

227 63.1 32.1 96.3





#95

Naphthalene

Concen: 53.772 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:128 Resp: 369385

Ion Ratio Lower Upper

128 100

127 12.8 10.5 15.7

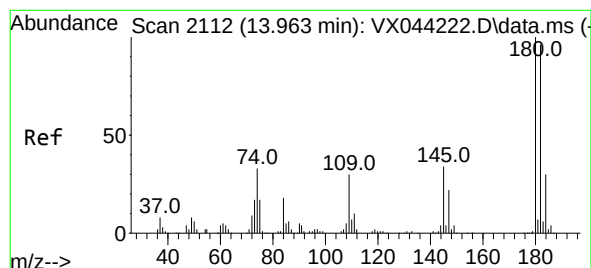
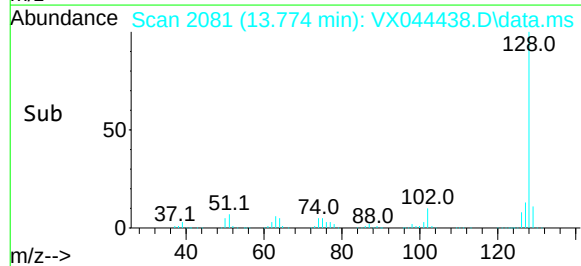
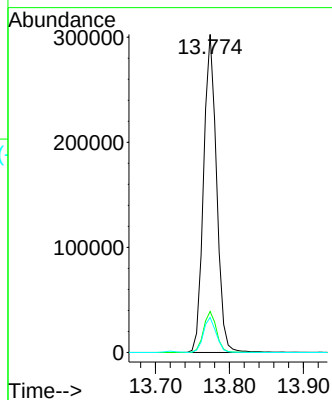
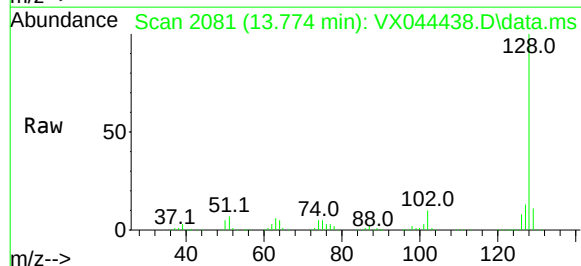
129 10.9 9.0 13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#96

1,2,3-Trichlorobenzene

Concen: 58.216 ug/l

RT: 13.957 min Scan# 2111

Delta R.T. -0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

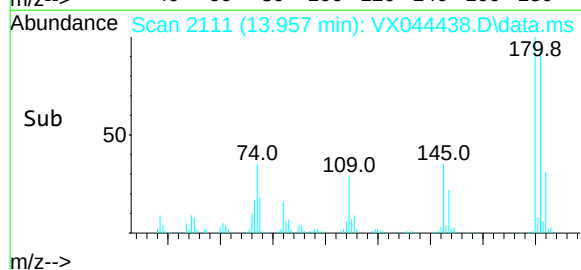
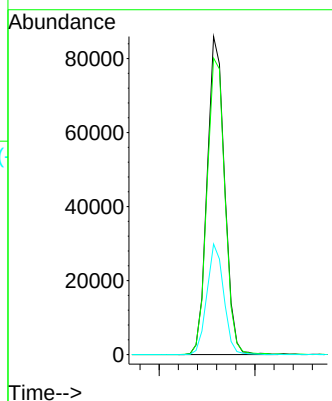
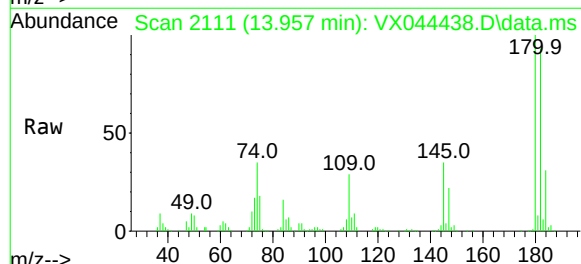
Tgt Ion:180 Resp: 108667

Ion Ratio Lower Upper

180 100

182 96.0 48.0 144.0

145 33.6 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	109	0.00
2 T	Dichlorodifluoromethane	0.773	0.854	-10.5	118	0.00
3 P	Chloromethane	0.739	0.782	-5.8	112	0.00
4 C	Vinyl Chloride	0.770	0.798	-3.6#	110	0.00
5 T	Bromomethane	0.546	0.532	2.6	105	0.00
6 T	Chloroethane	0.480	0.473	1.5	97	0.00
7 T	Trichlorofluoromethane	1.508	1.482	1.7	104	0.00
8 T	Diethyl Ether	0.515	0.479	7.0	101	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.610	0.676	-10.8	119	0.00
10 T	Methyl Iodide	0.804	0.864	-7.5	111	0.00
11 T	Tert butyl alcohol	0.124	0.102	17.7	92	0.00
12 CM	1,1-Dichloroethene	0.560	0.624	-11.4#	114	0.00
13 T	Acrolein	0.179	0.155	13.4	91	0.00
14 T	Allyl chloride	0.933	0.963	-3.2	104	0.00
15 T	Acrylonitrile	0.342	0.335	2.0	102	0.00
16 T	Acetone	0.357	0.291	18.5	83	0.00
17 T	Carbon Disulfide	1.065	1.106	-3.8	104	0.00
18 T	Methyl Acetate	0.922	0.896	2.8	102	0.00
19 T	Methyl tert-butyl Ether	2.187	2.093	4.3	99	0.00
20 T	Methylene Chloride	0.671	0.689	-2.7	109	0.00
21 T	trans-1,2-Dichloroethene	0.596	0.625	-4.9	110	0.00
22 T	Diisopropyl ether	2.102	2.061	2.0	103	0.00
23 T	Vinyl Acetate	1.709	1.772	-3.7	101	0.00
24 P	1,1-Dichloroethane	1.172	1.203	-2.6	105	0.00
25 T	2-Butanone	0.508	0.457	10.0	91	0.00
26 T	2,2-Dichloropropane	0.952	0.990	-4.0	103	0.00
27 T	cis-1,2-Dichloroethene	0.756	0.755	0.1	106	0.00
28 T	Bromochloromethane	0.575	0.553	3.8	101	0.00
29 T	Tetrahydrofuran	0.326	0.297	8.9	96	0.00
30 C	Chloroform	1.316	1.265	3.9#	102	0.00
31 T	Cyclohexane	0.946	1.000	-5.7	111	0.00
32 T	1,1,1-Trichloroethane	1.093	1.099	-0.5	101	0.00
33 S	1,2-Dichloroethane-d4	0.877	0.836	4.7	98	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
35 S	Dibromofluoromethane	0.346	0.392	-13.3	103	0.00
36 T	1,1-Dichloropropene	0.448	0.494	-10.3	108	0.00
37 T	Ethyl Acetate	0.553	0.556	-0.5	93	0.00
38 T	Carbon Tetrachloride	0.482	0.533	-10.6	103	0.00
39 T	Methylcyclohexane	0.535	0.648	-21.1	113	0.00
40 TM	Benzene	1.359	1.529	-12.5	105	0.00
41 T	Methacrylonitrile	0.294	0.296	-0.7	95	0.00
42 TM	1,2-Dichloroethane	0.560	0.586	-4.6	97	0.00
43 T	Isopropyl Acetate	0.865	0.883	-2.1	93	0.00
44 TM	Trichloroethene	0.339	0.388	-14.5	108	0.00
45 C	1,2-Dichloropropane	0.347	0.369	-6.3#	100	0.00
46 T	Dibromomethane	0.269	0.300	-11.5	102	0.00
47 T	Bromodichloromethane	0.465	0.525	-12.9	100	0.00
48 T	Methyl methacrylate	0.420	0.416	1.0	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	0.007	0.006	14.3	81	0.00
50 S	Toluene-d8	1.168	1.318	-12.8	102	0.00
51 T	4-Methyl-2-Pentanone	0.556	0.573	-3.1	94	0.00
52 CM	Toluene	0.853	0.924	-8.3#	102	0.00
53 T	t-1,3-Dichloropropene	0.455	0.517	-13.6	97	0.00
54 T	cis-1,3-Dichloropropene	0.507	0.577	-13.8	99	0.00
55 T	1,1,2-Trichloroethane	0.339	0.374	-10.3	101	0.00
56 T	Ethyl methacrylate	0.535	0.576	-7.7	97	0.00
57 T	1,3-Dichloropropane	0.590	0.635	-7.6	100	0.00
58 T	2-Chloroethyl Vinyl ether	0.270	0.272	-0.7	90	0.00
59 T	2-Hexanone	0.403	0.414	-2.7	91	0.00
60 T	Dibromochloromethane	0.326	0.381	-16.9	100	0.00
61 T	1,2-Dibromoethane	0.345	0.385	-11.6	101	0.00
62 S	4-Bromofluorobenzene	0.408	0.454	-11.3	100	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	96	0.00
64 T	Tetrachloroethene	0.332	0.378	-13.9	113	0.00
65 PM	Chlorobenzene	1.071	1.187	-10.8	105	0.00
66 T	1,1,1,2-Tetrachloroethane	0.344	0.392	-14.0	101	0.00
67 C	Ethyl Benzene	1.851	2.034	-9.9#	102	0.00
68 T	m/p-Xylenes	0.679	0.780	-14.9	106	0.00
69 T	o-Xylene	0.687	0.748	-8.9	102	0.00
70 T	Styrene	1.102	1.275	-15.7	106	0.00
71 P	Bromoform	0.219	0.266	-21.5	104	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73 T	Isopropylbenzene	3.828	4.095	-7.0	105	0.00
74 T	N-amyl acetate	1.769	1.800	-1.8	94	0.00
75 P	1,1,2,2-Tetrachloroethane	1.329	1.387	-4.4	104	0.00
76 T	1,2,3-Trichloropropane	1.116	1.131	-1.3	101	0.00
77 T	Bromobenzene	0.928	1.002	-8.0	106	0.00
78 T	n-propylbenzene	4.231	4.632	-9.5	103	0.00
79 T	2-Chlorotoluene	2.736	2.808	-2.6	101	0.00
80 T	1,3,5-Trimethylbenzene	3.174	3.383	-6.6	102	0.00
81 T	trans-1,4-Dichloro-2-butene	0.347	0.368	-6.1	100	0.00
82 T	4-Chlorotoluene	3.030	3.207	-5.8	103	0.00
83 T	tert-Butylbenzene	3.137	3.363	-7.2	103	0.00
84 T	1,2,4-Trimethylbenzene	3.117	3.437	-10.3	105	0.00
85 T	sec-Butylbenzene	3.808	4.188	-10.0	105	0.00
86 T	p-Isopropyltoluene	3.170	3.530	-11.4	106	0.00
87 T	1,3-Dichlorobenzene	1.621	1.811	-11.7	108	0.00
88 T	1,4-Dichlorobenzene	1.667	1.781	-6.8	107	0.00
89 T	n-Butylbenzene	2.665	3.065	-15.0	108	0.00
90 T	Hexachloroethane	0.463	0.531	-14.7	105	0.00
91 T	1,2-Dichlorobenzene	1.683	1.820	-8.1	106	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.258	0.253	1.9	93	0.00
93 T	1,2,4-Trichlorobenzene	0.923	1.098	-19.0	112	0.00
94 T	Hexachlorobutadiene	0.371	0.452	-21.8	123	0.00
95 T	Naphthalene	3.603	3.874	-7.5	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	0.979	1.140	-16.4	112	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	109	0.00
2 T	Dichlorodifluoromethane	50.000	55.219	-10.4	118	0.00
3 P	Chloromethane	50.000	52.856	-5.7	112	0.00
4 C	Vinyl Chloride	50.000	51.825	-3.7#	110	0.00
5 T	Bromomethane	50.000	48.640	2.7	105	0.00
6 T	Chloroethane	50.000	49.350	1.3	97	0.00
7 T	Trichlorofluoromethane	50.000	49.144	1.7	104	0.00
8 T	Diethyl Ether	50.000	46.573	6.9	101	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	55.436	-10.9	119	0.00
10 T	Methyl Iodide	50.000	53.737	-7.5	111	0.00
11 T	Tert butyl alcohol	250.000	207.237	17.1	92	0.00
12 CM	1,1-Dichloroethene	50.000	55.650	-11.3#	114	0.00
13 T	Acrolein	250.000	216.034	13.6	91	0.00
14 T	Allyl chloride	50.000	51.595	-3.2	104	0.00
15 T	Acrylonitrile	250.000	245.064	2.0	102	0.00
16 T	Acetone	250.000	203.262	18.7	83	0.00
17 T	Carbon Disulfide	50.000	51.902	-3.8	104	0.00
18 T	Methyl Acetate	50.000	48.611	2.8	102	0.00
19 T	Methyl tert-butyl Ether	50.000	47.845	4.3	99	0.00
20 T	Methylene Chloride	50.000	51.347	-2.7	109	0.00
21 T	trans-1,2-Dichloroethene	50.000	52.474	-4.9	110	0.00
22 T	Diisopropyl ether	50.000	49.031	1.9	103	0.00
23 T	Vinyl Acetate	250.000	259.287	-3.7	101	0.00
24 P	1,1-Dichloroethane	50.000	51.322	-2.6	105	0.00
25 T	2-Butanone	250.000	225.066	10.0	91	0.00
26 T	2,2-Dichloropropane	50.000	51.979	-4.0	103	0.00
27 T	cis-1,2-Dichloroethene	50.000	49.931	0.1	106	0.00
28 T	Bromochloromethane	50.000	48.128	3.7	101	0.00
29 T	Tetrahydrofuran	250.000	227.599	9.0	96	0.00
30 C	Chloroform	50.000	48.035	3.9#	102	0.00
31 T	Cyclohexane	50.000	52.839	-5.7	111	0.00
32 T	1,1,1-Trichloroethane	50.000	50.298	-0.6	101	0.00
33 S	1,2-Dichloroethane-d4	50.000	47.679	4.6	98	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	97	0.00
35 S	Dibromofluoromethane	50.000	56.586	-13.2	103	0.00
36 T	1,1-Dichloropropene	50.000	55.205	-10.4	108	0.00
37 T	Ethyl Acetate	50.000	50.217	-0.4	93	0.00
38 T	Carbon Tetrachloride	50.000	55.304	-10.6	103	0.00
39 T	Methylcyclohexane	50.000	60.512	-21.0	113	0.00
40 TM	Benzene	50.000	56.259	-12.5	105	0.00
41 T	Methacrylonitrile	50.000	50.310	-0.6	95	0.00
42 TM	1,2-Dichloroethane	50.000	52.362	-4.7	97	0.00
43 T	Isopropyl Acetate	50.000	51.076	-2.2	93	0.00
44 TM	Trichloroethene	50.000	57.285	-14.6	108	0.00
45 C	1,2-Dichloropropane	50.000	53.131	-6.3#	100	0.00
46 T	Dibromomethane	50.000	55.676	-11.4	102	0.00
47 T	Bromodichloromethane	50.000	56.402	-12.8	100	0.00
48 T	Methyl methacrylate	50.000	49.554	0.9	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	906.120	9.4	81	0.00
50 S	Toluene-d8	50.000	56.385	-12.8	102	0.00
51 T	4-Methyl-2-Pentanone	250.000	257.494	-3.0	94	0.00
52 CM	Toluene	50.000	54.120	-8.2#	102	0.00
53 T	t-1,3-Dichloropropene	50.000	51.640	-3.3	97	0.00
54 T	cis-1,3-Dichloropropene	50.000	56.913	-13.8	99	0.00
55 T	1,1,2-Trichloroethane	50.000	55.124	-10.2	101	0.00
56 T	Ethyl methacrylate	50.000	53.800	-7.6	97	0.00
57 T	1,3-Dichloropropane	50.000	53.824	-7.6	100	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	252.070	-0.8	90	0.00
59 T	2-Hexanone	250.000	256.860	-2.7	91	0.00
60 T	Dibromochloromethane	50.000	52.901	-5.8	100	0.00
61 T	1,2-Dibromoethane	50.000	55.721	-11.4	101	0.00
62 S	4-Bromofluorobenzene	50.000	55.640	-11.3	100	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	96	0.00
64 T	Tetrachloroethene	50.000	57.001	-14.0	113	0.00
65 PM	Chlorobenzene	50.000	55.402	-10.8	105	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	56.959	-13.9	101	0.00
67 C	Ethyl Benzene	50.000	54.936	-9.9#	102	0.00
68 T	m/p-Xylenes	100.000	114.771	-14.8	106	0.00
69 T	o-Xylene	50.000	54.389	-8.8	102	0.00
70 T	Styrene	50.000	57.862	-15.7	106	0.00
71 P	Bromoform	50.000	54.671	-9.3	104	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73 T	Isopropylbenzene	50.000	53.495	-7.0	105	0.00
74 T	N-amyl acetate	50.000	50.885	-1.8	94	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	52.145	-4.3	104	0.00
76 T	1,2,3-Trichloropropane	50.000	50.641	-1.3	101	0.00
77 T	Bromobenzene	50.000	53.953	-7.9	106	0.00
78 T	n-propylbenzene	50.000	54.741	-9.5	103	0.00
79 T	2-Chlorotoluene	50.000	51.311	-2.6	101	0.00
80 T	1,3,5-Trimethylbenzene	50.000	53.284	-6.6	102	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	47.498	5.0	100	0.00
82 T	4-Chlorotoluene	50.000	52.929	-5.9	103	0.00
83 T	tert-Butylbenzene	50.000	53.600	-7.2	103	0.00
84 T	1,2,4-Trimethylbenzene	50.000	55.123	-10.2	105	0.00
85 T	sec-Butylbenzene	50.000	54.989	-10.0	105	0.00
86 T	p-Isopropyltoluene	50.000	55.691	-11.4	106	0.00
87 T	1,3-Dichlorobenzene	50.000	55.839	-11.7	108	0.00
88 T	1,4-Dichlorobenzene	50.000	53.422	-6.8	107	0.00
89 T	n-Butylbenzene	50.000	57.503	-15.0	108	0.00
90 T	Hexachloroethane	50.000	57.385	-14.8	105	0.00
91 T	1,2-Dichlorobenzene	50.000	54.042	-8.1	106	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.022	2.0	93	0.00
93 T	1,2,4-Trichlorobenzene	50.000	59.504	-19.0	112	0.00
94 T	Hexachlorobutadiene	50.000	60.942	-21.9	123	0.00
95 T	Naphthalene	50.000	53.772	-7.5	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	58.216	-16.4	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06
 Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG No.: P5314
 Instrument ID: MSVOA_X Calibration Date/Time: 12/20/2024 19:49
 Lab File ID: VX044464.D Init. Calib. Date(s): 12/11/2024 12/11/2024
 Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00
 GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.739	0.696	0.1	-5.82	50
Vinyl Chloride	0.770	0.730		-5.2	50
Bromomethane	0.546	0.498		-8.79	50
Chloroethane	0.480	0.507		5.63	50
Trichlorofluoromethane	1.508	1.202		-20.29	50
1,1,2-Trichlorotrifluoroethane	0.610	0.590		-3.28	50
1,1-Dichloroethene	0.560	0.560		0	50
Acetone	0.357	0.270		-24.37	50
Carbon Disulfide	1.065	1.089		2.25	50
Methyl tert-butyl Ether	2.187	1.972		-9.83	50
Methylene Chloride	0.671	0.636		-5.22	50
trans-1,2-Dichloroethene	0.596	0.578		-3.02	50
1,1-Dichloroethane	1.172	1.125	0.1	-4.01	50
2-Butanone	0.508	0.433		-14.76	50
Carbon Tetrachloride	0.482	0.495		2.7	50
cis-1,2-Dichloroethene	0.756	0.719		-4.89	50
Chloroform	1.316	1.190		-9.57	50
1,1,1-Trichloroethane	1.093	1.029		-5.86	50
Methylcyclohexane	0.535	0.550		2.8	50
Benzene	1.359	1.393		2.5	50
1,2-Dichloroethane	0.560	0.534		-4.64	50
Trichloroethene	0.339	0.360		6.2	50
1,2-Dichloropropane	0.347	0.345		-0.58	50
Bromodichloromethane	0.465	0.491		5.59	50
4-Methyl-2-Pentanone	0.556	0.524		-5.76	50
Toluene	0.853	0.855		0.23	50
t-1,3-Dichloropropene	0.455	0.482		5.93	50
cis-1,3-Dichloropropene	0.507	0.531		4.73	50
1,1,2-Trichloroethane	0.339	0.345		1.77	50
2-Hexanone	0.403	0.381		-5.46	50
Dibromochloromethane	0.326	0.361		10.74	50
Tetrachloroethene	0.332	0.343		3.31	50
Chlorobenzene	1.071	1.094	0.3	2.15	50
Ethyl Benzene	1.851	1.868		0.92	50
m/p-Xylenes	0.679	0.713		5.01	50
o-Xylene	0.687	0.708		3.06	50
Styrene	1.102	1.163		5.53	50
Bromoform	0.219	0.251	0.1	14.61	50

All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG No.: P5314

Instrument ID: MSVOA_X Calibration Date/Time: 12/20/2024 19:49

Lab File ID: VX044464.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.828	3.829		0.03	50
1,1,2,2-Tetrachloroethane	1.329	1.278	0.3	-3.84	50
1,3-Dichlorobenzene	1.621	1.669		2.96	50
1,4-Dichlorobenzene	1.667	1.653		-0.84	50
1,2-Dichlorobenzene	1.684	1.709		1.49	50
1,2-Dichloroethane-d4	0.877	0.778		-11.29	50
Dibromofluoromethane	0.346	0.363		4.91	50
Toluene-d8	1.168	1.213		3.85	50
4-Bromofluorobenzene	0.408	0.418		2.45	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_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	140284	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	239068	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	206477	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	97831	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	109103	44.357	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	88.720%		
35) Dibromofluoromethane	5.379	113	86675	52.347	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	104.700%		
50) Toluene-d8	8.647	98	290046	51.923	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.840%		
62) 4-Bromofluorobenzene	11.079	95	99862	51.161	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	102.320%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	104302	48.084	ug/l	95
3) Chloromethane	1.294	50	97601	47.052	ug/l	99
4) Vinyl Chloride	1.374	62	102407	47.388	ug/l	96
5) Bromomethane	1.593	94	69880	45.581	ug/l	98
6) Chloroethane	1.666	64	71114	52.848	ug/l	97
7) Trichlorofluoromethane	1.868	101	168610	39.855	ug/l	98
8) Diethyl Ether	2.136	74	61643	42.687	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.313	101	82704	48.311	ug/l	96
10) Methyl Iodide	2.441	142	113213	50.177	ug/l	98
11) Tert butyl alcohol	2.989	59	71333	205.778	ug/l	100
12) 1,1-Dichloroethene	2.306	96	78622	50.001	ug/l	95
13) Acrolein	2.239	56	111786	222.774	ug/l	98
14) Allyl chloride	2.654	41	124514	47.541	ug/l	97
15) Acrylonitrile	3.062	53	217189	226.182	ug/l	98
16) Acetone	2.386	43	189212	188.692	ug/l	95
17) Carbon Disulfide	2.502	76	152826	51.130	ug/l	100
18) Methyl Acetate	2.709	43	120686	46.678	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	276668	45.089	ug/l	99
20) Methylene Chloride	2.782	84	89276	47.401	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	81078	48.517	ug/l	99
22) Diisopropyl ether	3.764	45	265503	45.018	ug/l	98
23) Vinyl Acetate	3.721	43	1167584	243.510	ug/l	98
24) 1,1-Dichloroethane	3.605	63	157858	48.018	ug/l	99
25) 2-Butanone	4.562	43	303982	213.237	ug/l	98
26) 2,2-Dichloropropane	4.471	77	116211	43.513	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	100836	47.511	ug/l	95
28) Bromochloromethane	4.891	49	71526	44.369	ug/l	95
29) Tetrahydrofuran	5.007	42	194494	212.557	ug/l	99
30) Chloroform	5.093	83	166909	45.189	ug/l	99
31) Cyclohexane	5.464	56	122203	46.033	ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	144394	47.095	ug/l	99
36) 1,1-Dichloropropene	5.684	75	104911	49.017	ug/l	97
37) Ethyl Acetate	4.721	43	127468	48.180	ug/l	100
38) Carbon Tetrachloride	5.666	117	118357	51.365	ug/l	99
39) Methylcyclohexane	7.373	83	131438	51.370	ug/l	96
40) Benzene	6.031	78	333117	51.262	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	66592	47.401	ug/l	98
42) 1,2-Dichloroethane	6.080	62	127634	47.680	ug/l	98
43) Isopropyl Acetate	6.342	43	198680	48.047	ug/l	98
44) Trichloroethene	7.117	130	86021	53.083	ug/l	93
45) 1,2-Dichloropropane	7.428	63	82383	49.622	ug/l	96
46) Dibromomethane	7.574	93	65924	51.184	ug/l	94
47) Bromodichloromethane	7.818	83	117278	52.723	ug/l	100
48) Methyl methacrylate	7.690	41	94575	47.115	ug/l	96
49) 1,4-Dioxane	7.659	88	33398	1003.530	ug/l	93
51) 4-Methyl-2-Pentanone	8.574	43	625919	235.413	ug/l	99
52) Toluene	8.714	92	204328	50.071	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	115268	48.388	ug/l	95
54) cis-1,3-Dichloropropene	8.366	75	127004	52.437	ug/l	99
55) 1,1,2-Trichloroethane	9.147	97	82378	50.814	ug/l	96
56) Ethyl methacrylate	9.116	69	131845	51.516	ug/l	95
57) 1,3-Dichloropropane	9.305	76	140522	49.799	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	314516	243.652	ug/l	98
59) 2-Hexanone	9.433	43	454909	236.376	ug/l	99
60) Dibromochloromethane	9.519	129	86219	50.206	ug/l	99
61) 1,2-Dibromoethane	9.604	107	87547	53.053	ug/l	98
64) Tetrachloroethene	9.269	164	70888	51.727	ug/l	97
65) Chlorobenzene	10.079	112	225888	51.056	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	79060	55.601	ug/l	99
67) Ethyl Benzene	10.189	91	385756	50.462	ug/l	96
68) m/p-Xylenes	10.299	106	294612	105.028	ug/l	95
69) o-Xylene	10.640	106	146149	51.494	ug/l	93
70) Styrene	10.653	104	240058	52.761	ug/l	96
71) Bromoform	10.799	173	51823	51.900	ug/l #	99
73) Isopropylbenzene	10.957	105	374548	50.011	ug/l	100
74) N-ethyl acetate	10.842	43	168135	48.576	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	125030	48.065	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	102028m	46.709	ug/l	
77) Bromobenzene	11.195	156	94262	51.903	ug/l	94
78) n-propylbenzene	11.305	91	417465	50.432	ug/l	98
79) 2-Chlorotoluene	11.360	91	253139	47.285	ug/l	96
80) 1,3,5-Trimethylbenzene	11.451	105	309218	49.787	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	32407	43.348	ug/l	95
82) 4-Chlorotoluene	11.451	91	289306	48.802	ug/l	98
83) tert-Butylbenzene	11.713	119	312731	50.950	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	308415	50.564	ug/l	98
85) sec-Butylbenzene	11.890	105	376639	50.546	ug/l	99
86) p-Isopropyltoluene	12.006	119	319422	51.504	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	163311	51.480	ug/l	98
88) 1,4-Dichlorobenzene	12.043	146	161681	49.579	ug/l	98
89) n-Butylbenzene	12.329	91	261860	50.212	ug/l	99
90) Hexachloroethane	12.536	117	47928	52.940	ug/l	94
91) 1,2-Dichlorobenzene	12.335	146	167214	50.764	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	23250	46.042	ug/l	87
93) 1,2,4-Trichlorobenzene	13.585	180	97858	54.188	ug/l	98
94) Hexachlorobutadiene	13.725	225	40506	55.763	ug/l	98
95) Naphthalene	13.774	128	343151	48.680	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	101400	52.939	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

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

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

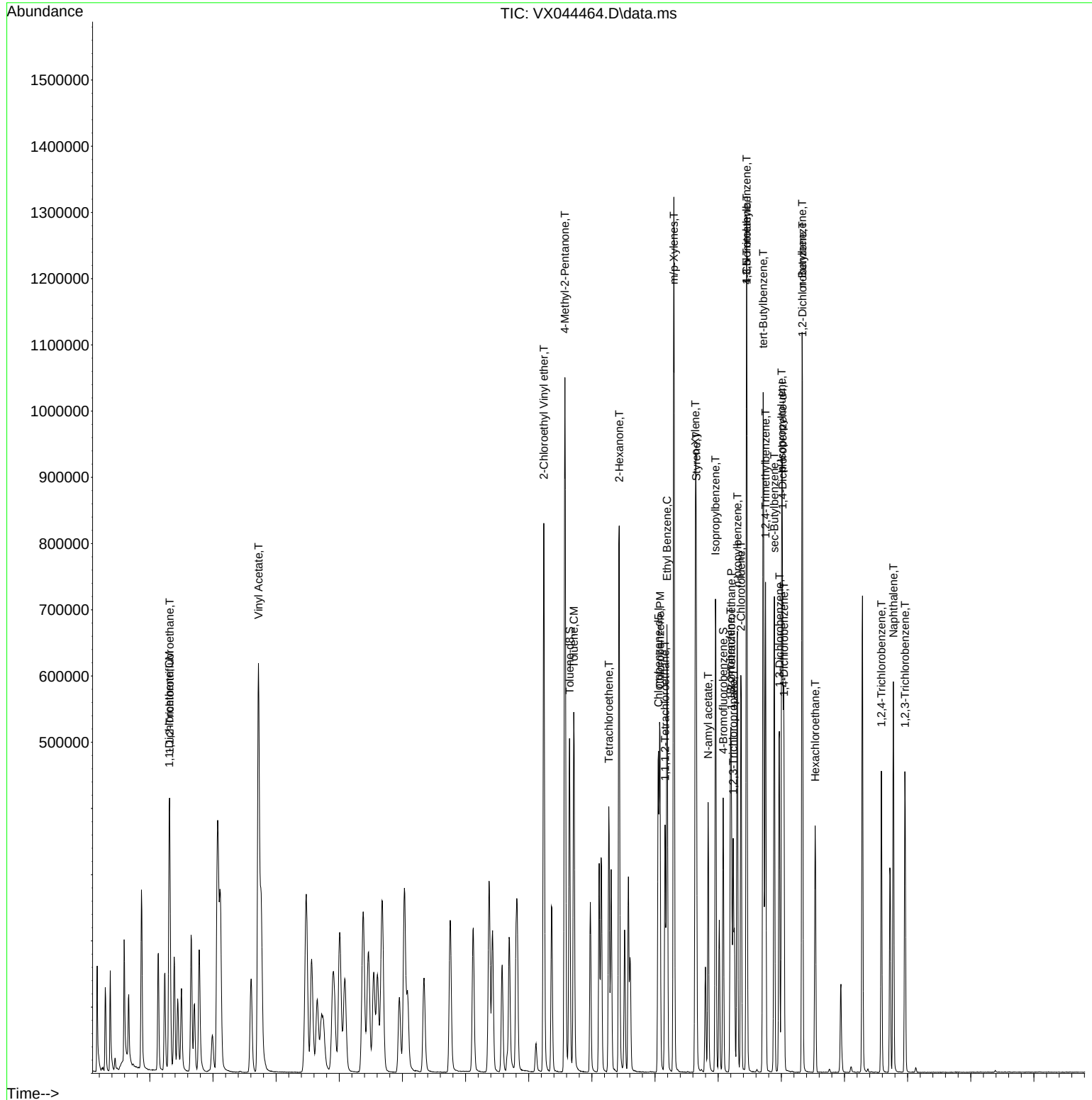
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

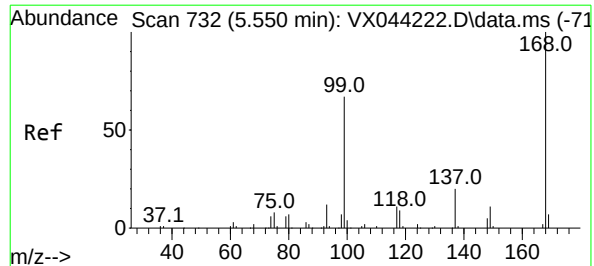
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

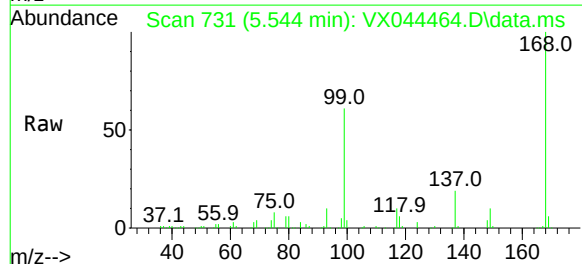
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

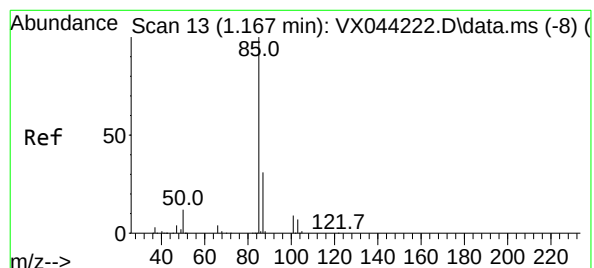
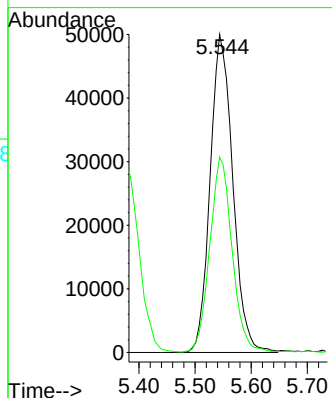
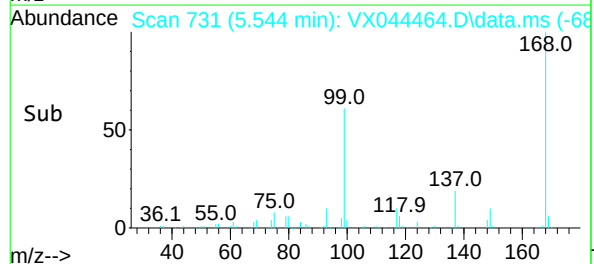
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 168 Resp: 140284
Ion Ratio Lower Upper
168 100
99 61.2 53.4 80.0

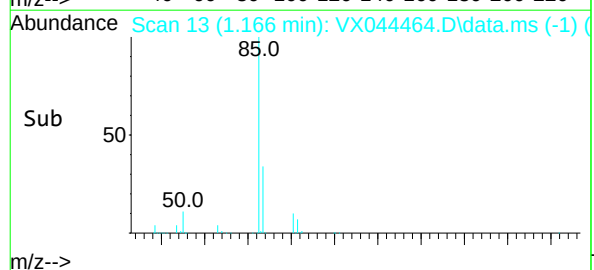
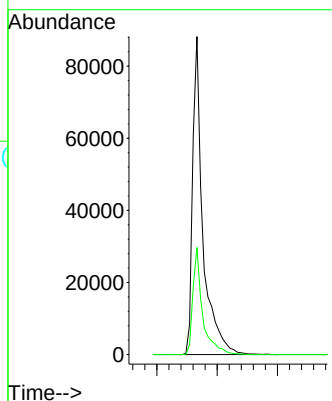
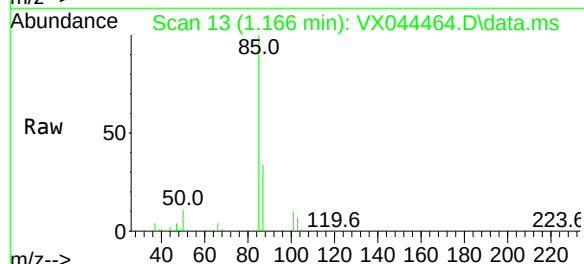
Manual Integrations
APPROVED

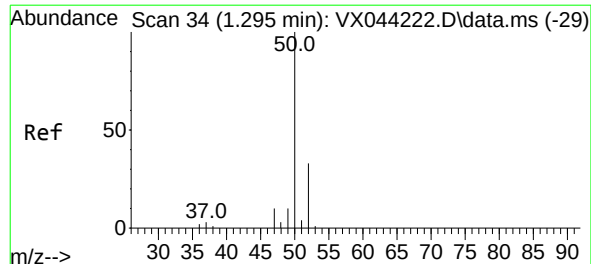
Reviewed By : Semsettin Yesilyurt 12/23/2024
Supervised By : Mahesh Dadoda 12/24/2024



#2
Dichlorodifluoromethane
Concen: 48.084 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 85 Resp: 104302
Ion Ratio Lower Upper
85 100
87 33.7 15.4 46.4





#3

Chloromethane

Concen: 47.052 ug/l

RT: 1.294 min Scan# 34

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 50 Resp: 97601

Ion Ratio Lower Upper

50 100

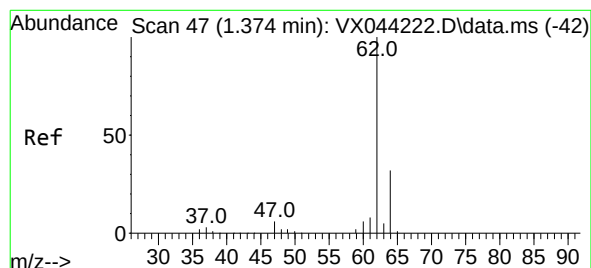
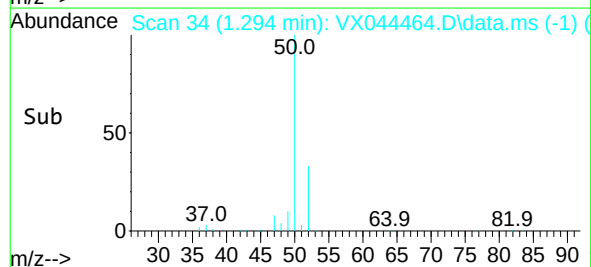
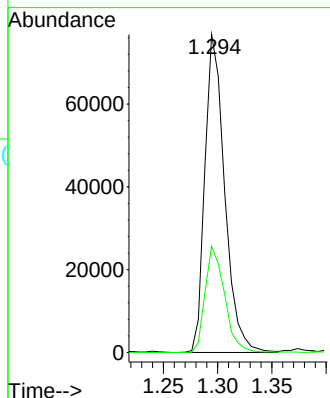
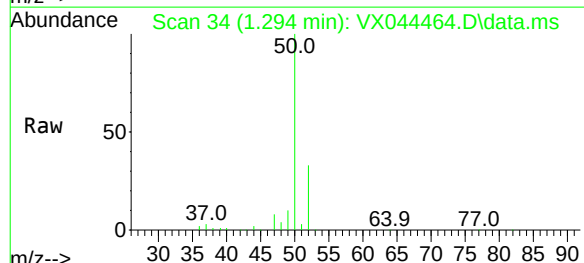
52 33.5 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#4

Vinyl Chloride

Concen: 47.388 ug/l

RT: 1.374 min Scan# 47

Delta R.T. -0.000 min

Lab File: VX044464.D

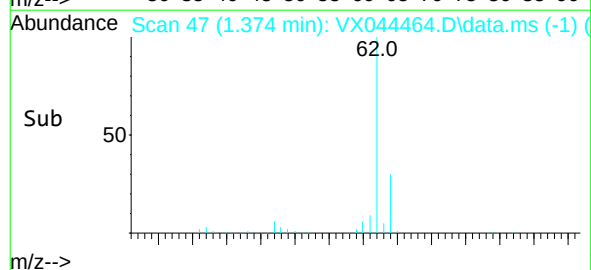
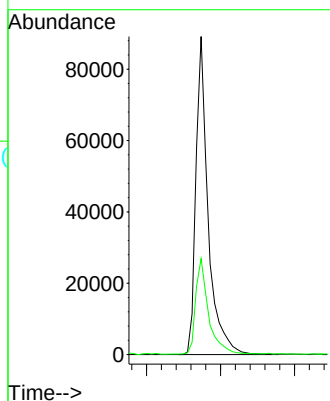
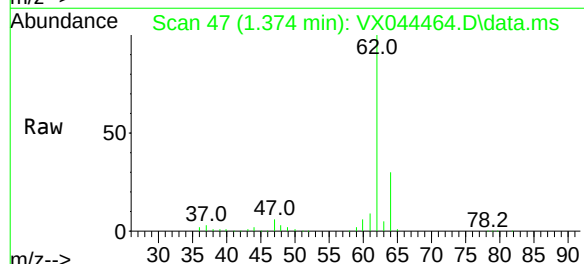
Acq: 20 Dec 2024 19:49

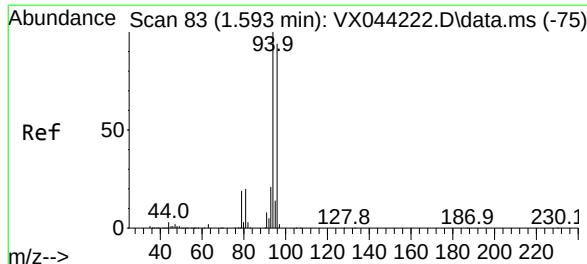
Tgt Ion: 62 Resp: 102407

Ion Ratio Lower Upper

62 100

64 30.0 25.7 38.5





#5

Bromomethane

Concen: 45.581 ug/l

RT: 1.593 min Scan# 83

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 94 Resp: 69880

Ion Ratio Lower Upper

94 100

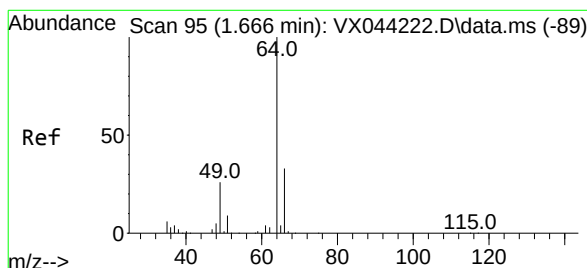
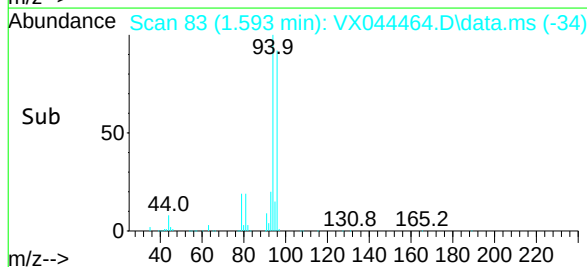
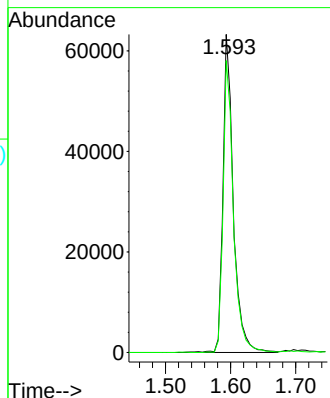
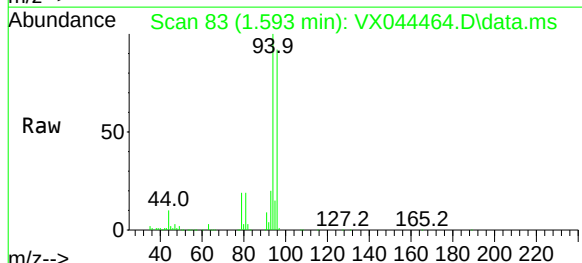
96 91.7 74.9 112.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#6

Chloroethane

Concen: 52.848 ug/l

RT: 1.666 min Scan# 95

Delta R.T. -0.000 min

Lab File: VX044464.D

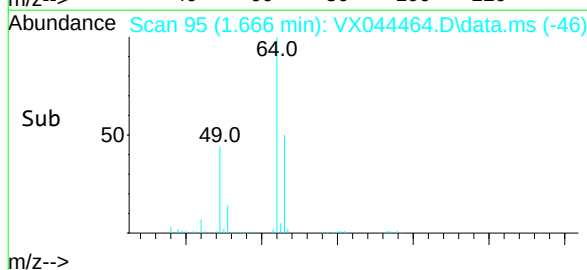
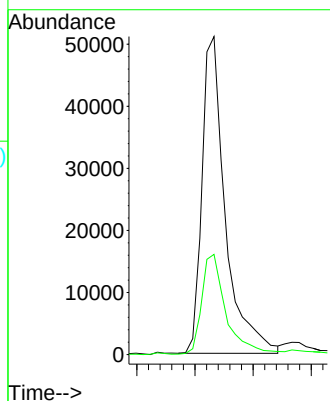
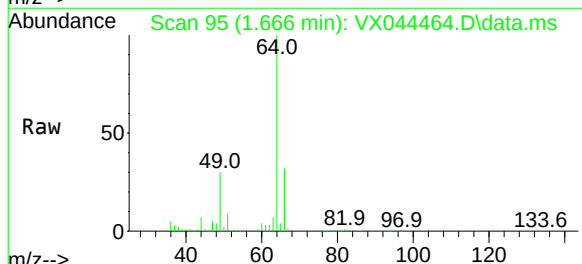
Acq: 20 Dec 2024 19:49

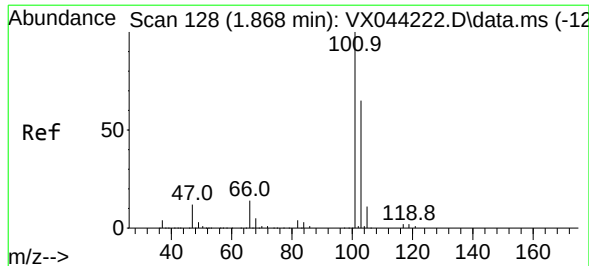
Tgt Ion: 64 Resp: 71114

Ion Ratio Lower Upper

64 100

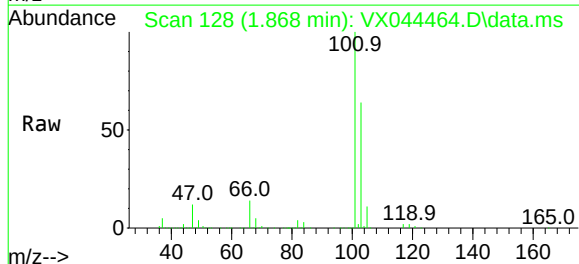
66 31.5 26.6 39.8





#7
Trichlorofluoromethane
Concen: 39.855 ug/l
RT: 1.868 min Scan# 128
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

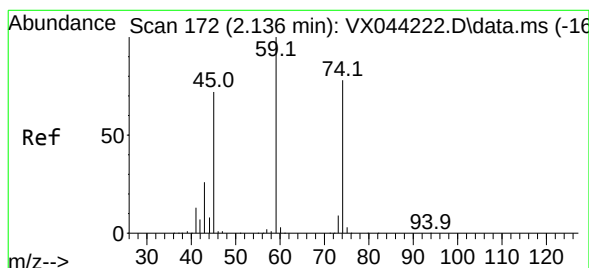
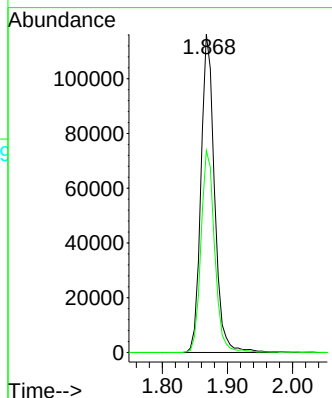
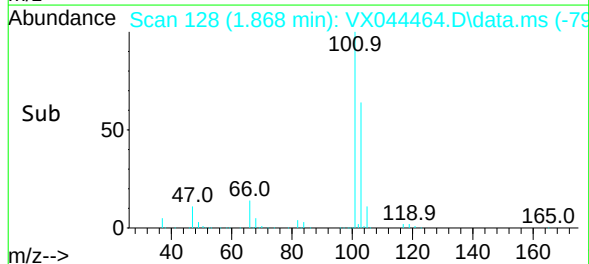
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 101 Resp: 168610
Ion Ratio Lower Upper
101 100
103 63.5 51.8 77.8

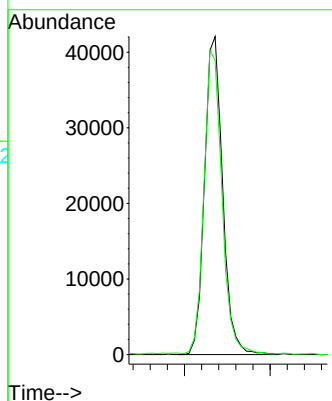
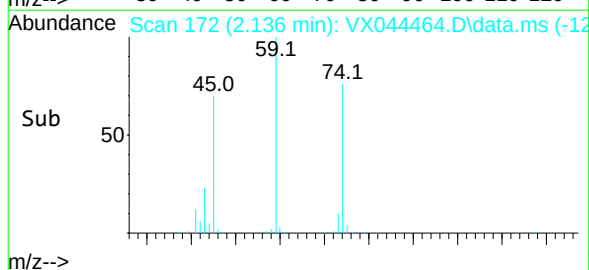
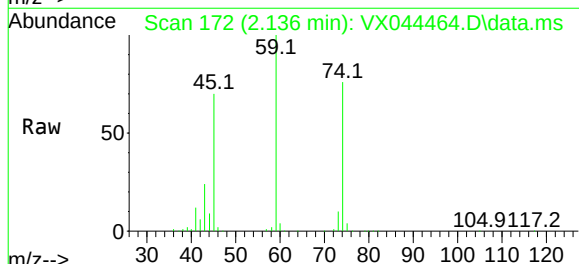
Manual Integrations
APPROVED

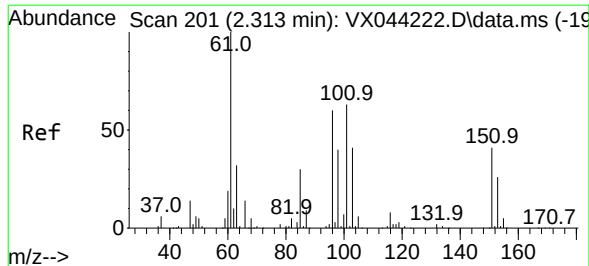
Reviewed By : Semsettin Yesilyurt 12/23/2024
Supervised By : Mahesh Dadoda 12/24/2024



#8
Diethyl Ether
Concen: 42.687 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 74 Resp: 61643
Ion Ratio Lower Upper
74 100
45 94.9 48.4 145.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.311 ug/l

RT: 2.313 min Scan# 201

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

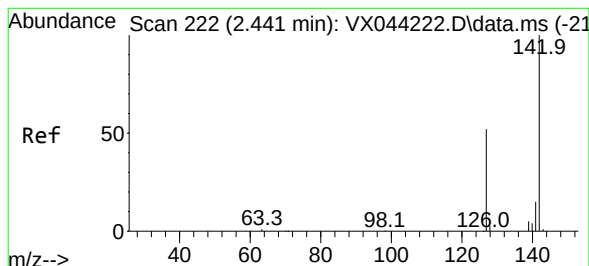
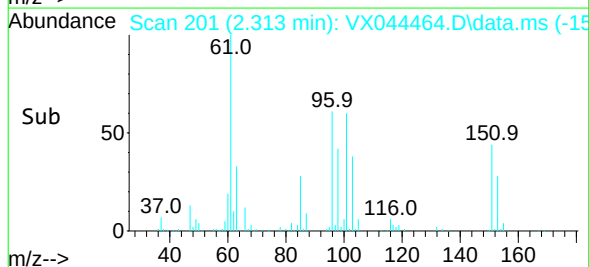
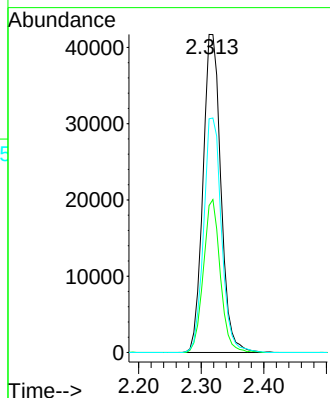
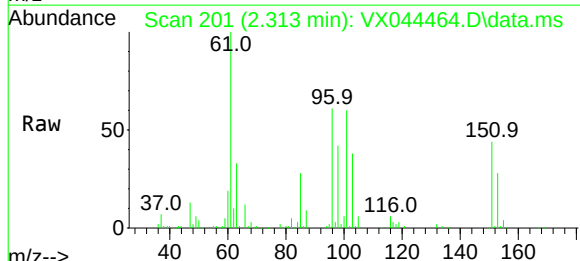
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	101	Resp:	82704
Ion	Ratio	Lower	Upper
101	100		
85	45.4	38.5	57.7
151	73.6	55.8	83.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#10

Methyl Iodide

Concen: 50.177 ug/l

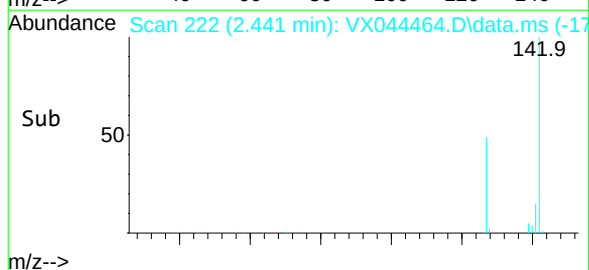
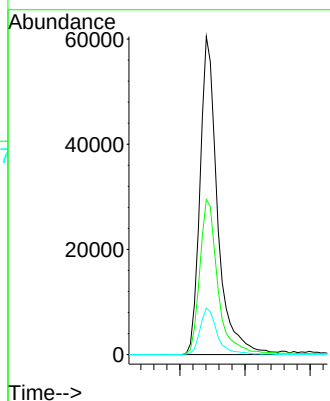
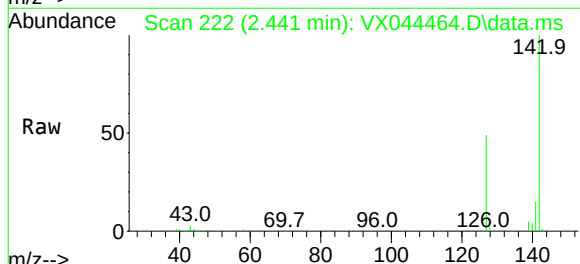
RT: 2.441 min Scan# 222

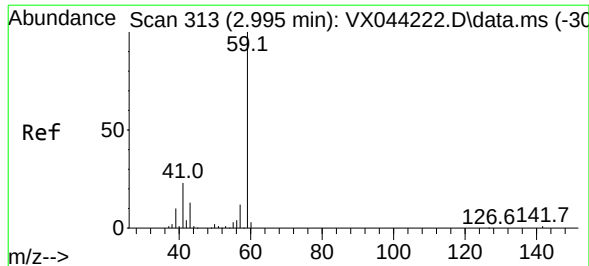
Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Tgt Ion:	142	Resp:	113213
Ion	Ratio	Lower	Upper
142	100		
127	50.5	41.8	62.8
141	14.5	11.5	17.3





#11

Tert butyl alcohol

Concen: 205.778 ug/l

RT: 2.989 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 59 Resp: 71333

Ion Ratio Lower Upper

59 100

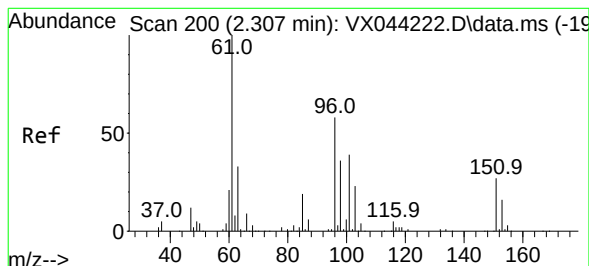
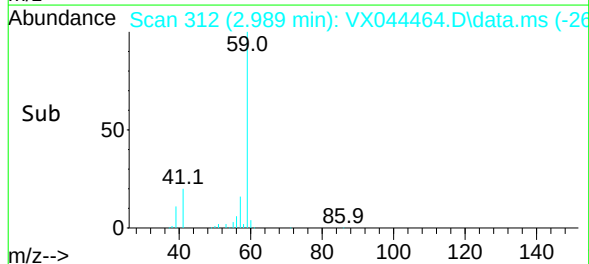
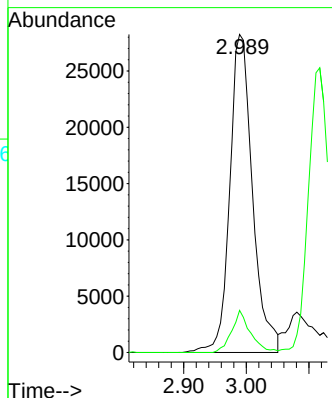
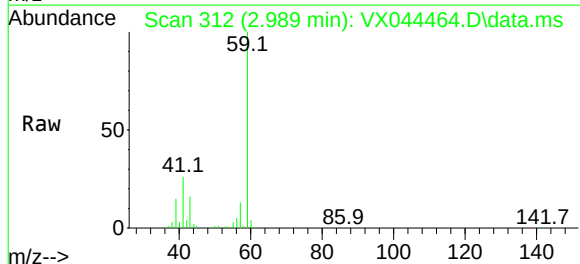
57 10.9 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#12

1,1-Dichloroethene

Concen: 50.001 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

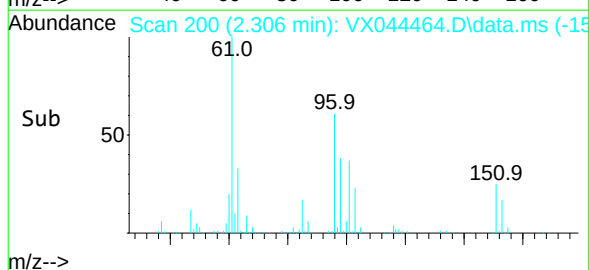
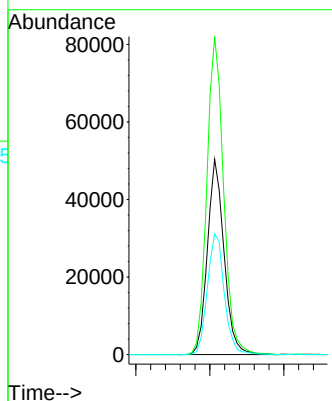
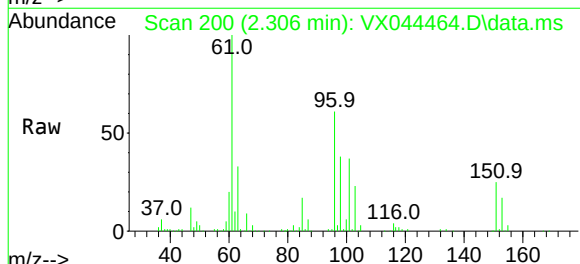
Tgt Ion: 96 Resp: 78622

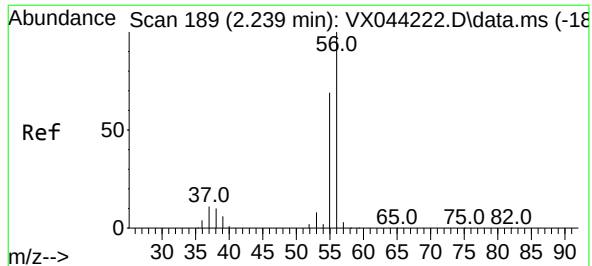
Ion Ratio Lower Upper

96 100

61 162.8 138.0 207.0

98 61.8 50.0 75.0





#13

Acrolein

Concen: 222.774 ug/l

RT: 2.239 min Scan# 189

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 56 Resp: 111786

Ion Ratio Lower Upper

56 100

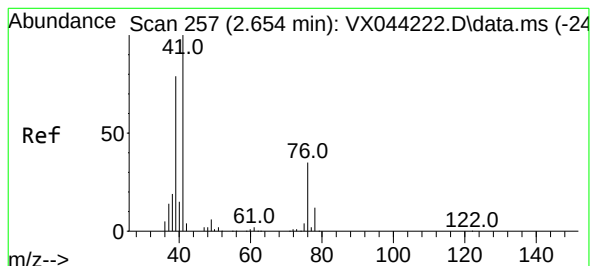
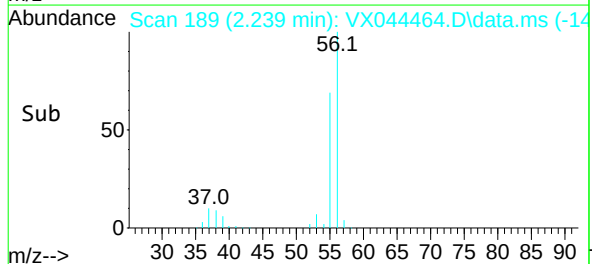
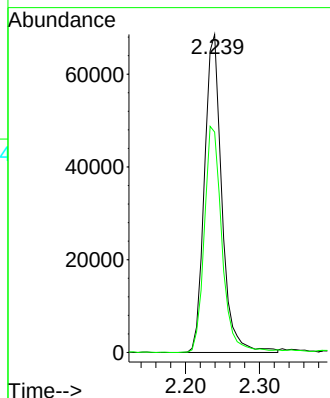
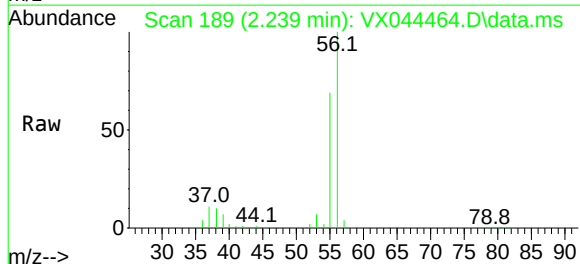
55 72.3 56.6 84.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#14

Allyl chloride

Concen: 47.541 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

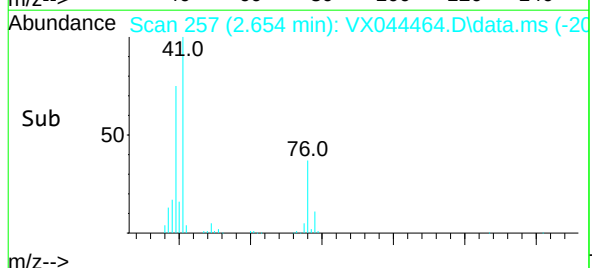
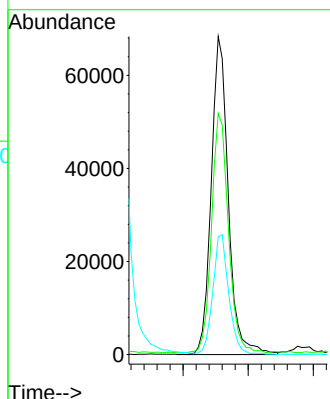
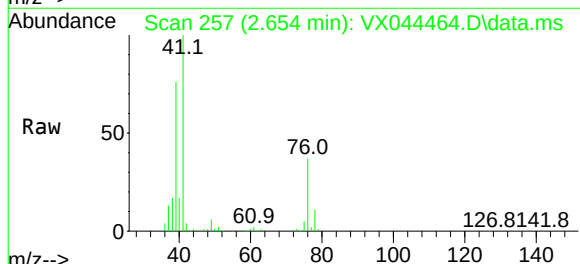
Tgt Ion: 41 Resp: 124514

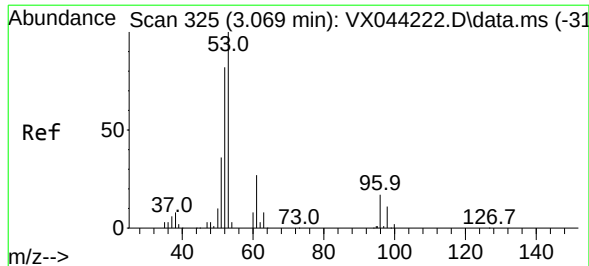
Ion Ratio Lower Upper

41 100

39 74.1 61.9 92.9

76 35.4 27.4 41.2





#15

Acrylonitrile

Concen: 226.182 ug/l

RT: 3.062 min Scan# 32

Delta R.T. -0.006 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

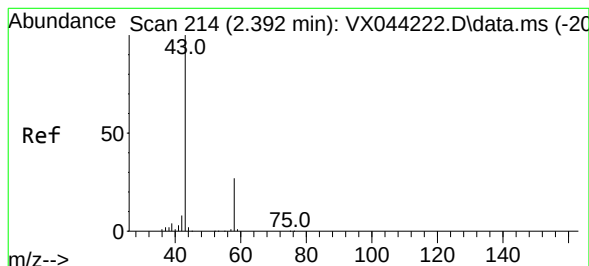
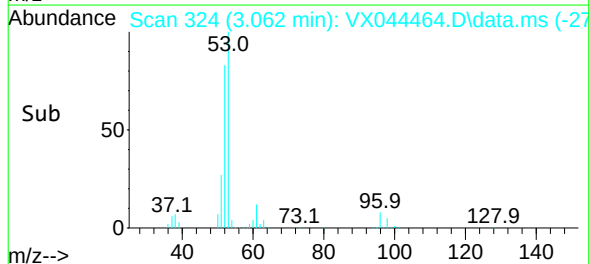
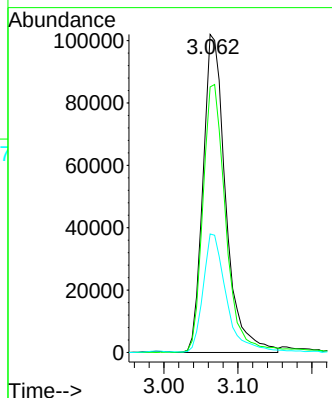
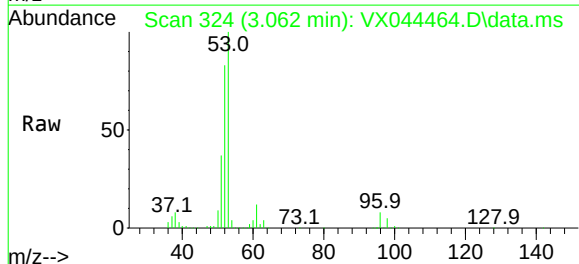
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	53	Resp:	217189
Ion	Ratio	Lower	Upper
53	100		
52	86.6	67.4	101.0
51	38.5	30.3	45.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#16

Acetone

Concen: 188.692 ug/l

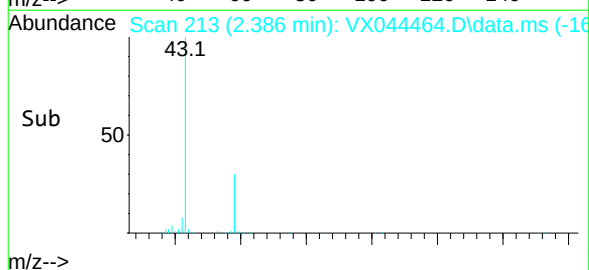
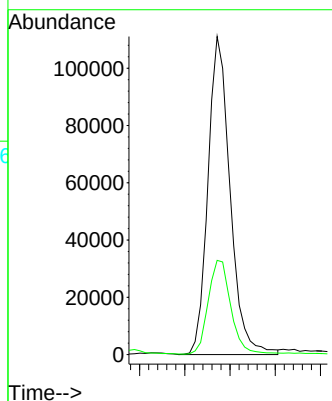
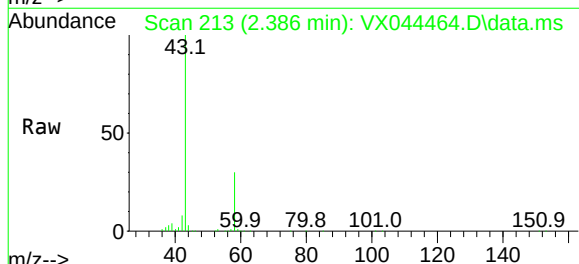
RT: 2.386 min Scan# 213

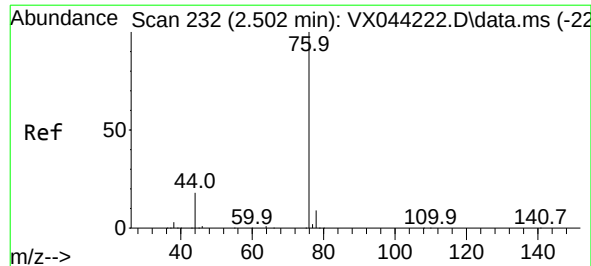
Delta R.T. -0.006 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Tgt Ion:	43	Resp:	189212
Ion	Ratio	Lower	Upper
43	100		
58	29.4	21.6	32.4





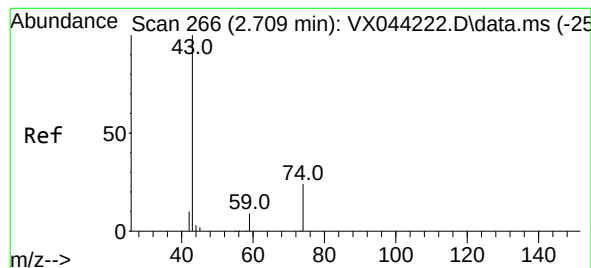
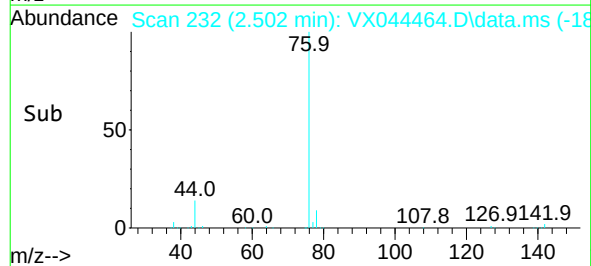
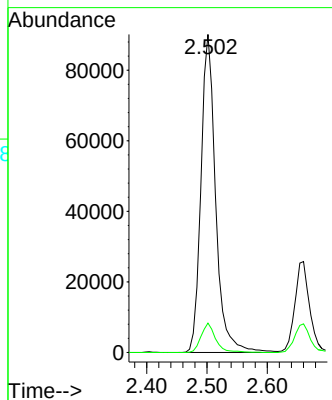
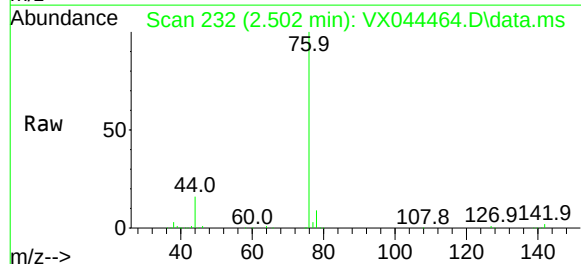
#17
Carbon Disulfide
Concen: 51.130 ug/l
RT: 2.502 min Scan# 232
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 152826
Ion Ratio Lower Upper
76 100
78 9.2 7.4 11.0

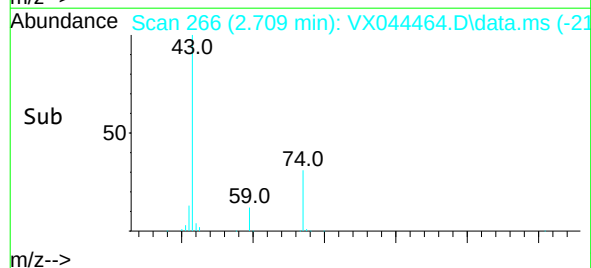
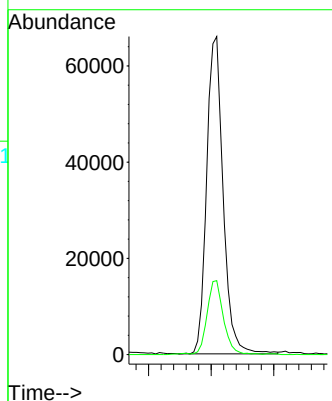
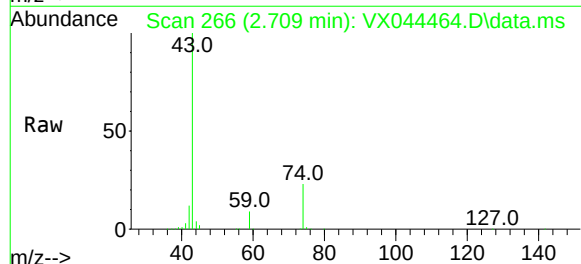
Manual Integrations
APPROVED

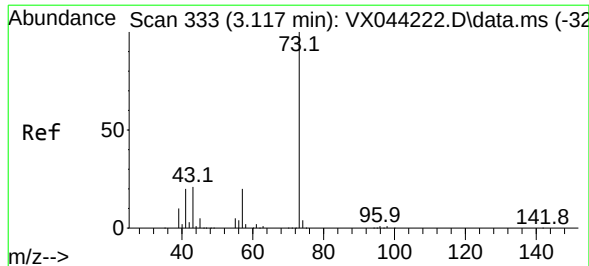
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#18
Methyl Acetate
Concen: 46.678 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 120686
Ion Ratio Lower Upper
43 100
74 23.4 17.7 26.5





#19

Methyl tert-butyl Ether

Concen: 45.089 ug/l

RT: 3.117 min Scan# 333

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 73 Resp: 276668

Ion Ratio Lower Upper

73 100

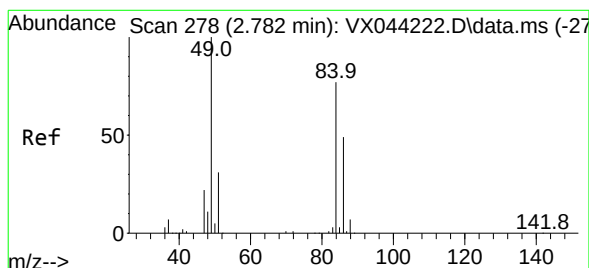
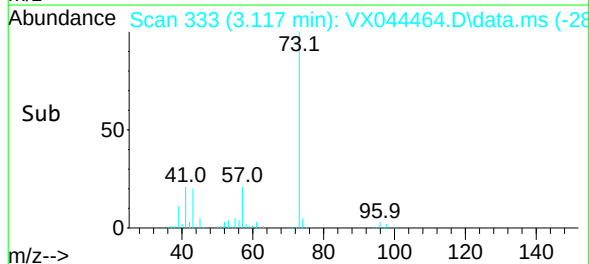
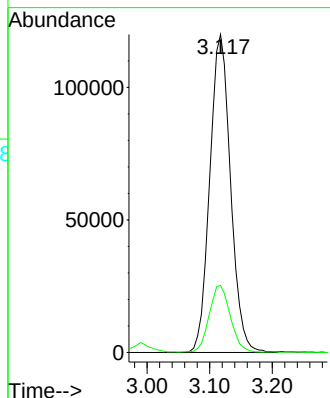
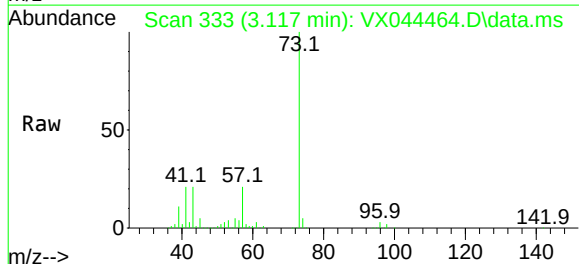
57 21.0 16.2 24.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#20

Methylene Chloride

Concen: 47.401 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Tgt Ion: 84 Resp: 89276

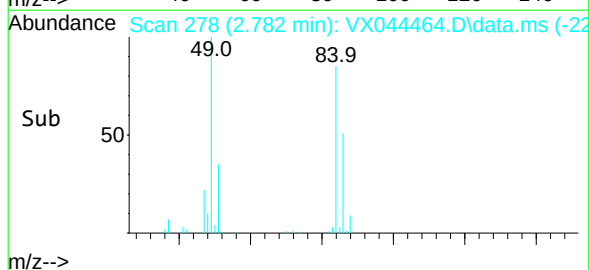
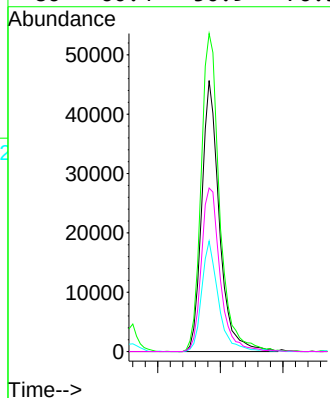
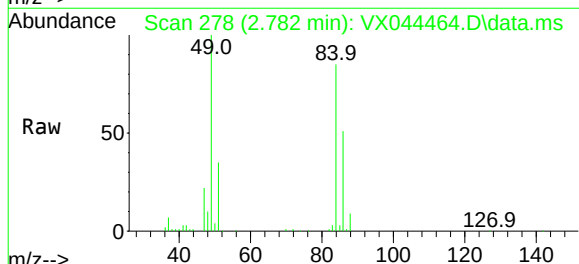
Ion Ratio Lower Upper

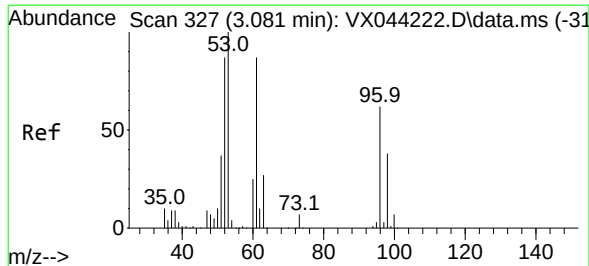
84 100

49 117.4 104.2 156.4

51 40.8 32.2 48.4

86 60.4 50.9 76.3





#21

trans-1,2-Dichloroethene

Concen: 48.517 ug/l

RT: 3.087 min Scan# 327

Delta R.T. 0.006 min

Lab File: VX044464.D

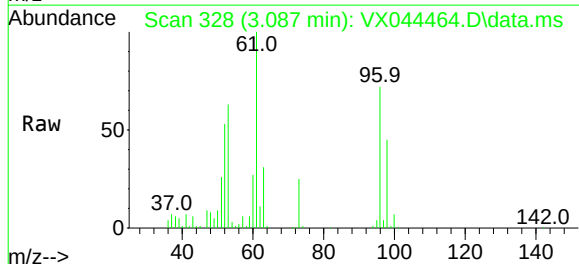
Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC



Tgt Ion: 96 Resp: 81078

Ion Ratio Lower Upper

96 100

61 138.9 112.0 168.0

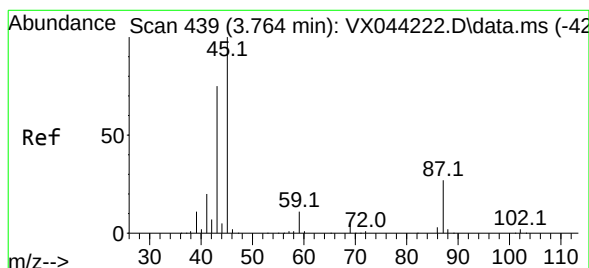
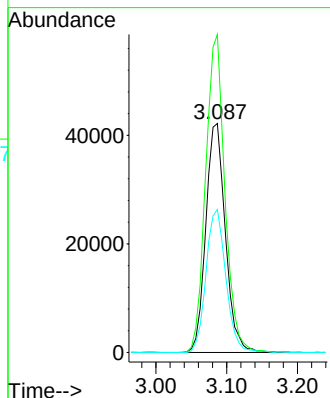
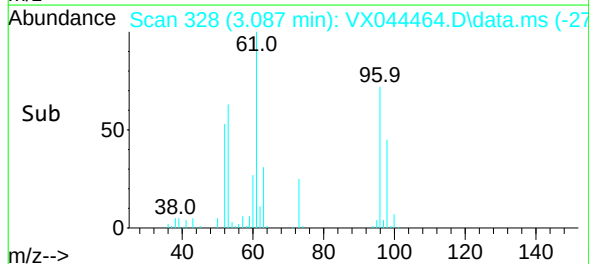
98 62.4 48.8 73.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#22

Diisopropyl ether

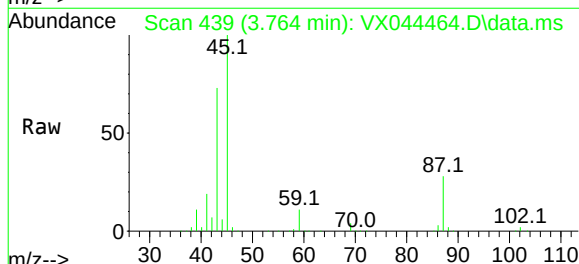
Concen: 45.018 ug/l

RT: 3.764 min Scan# 439

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49



Tgt Ion: 45 Resp: 265503

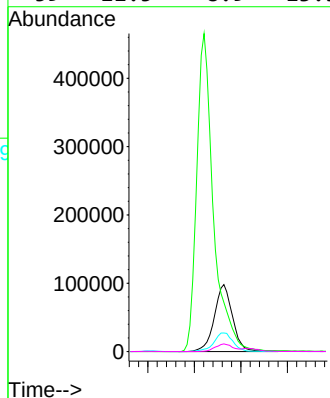
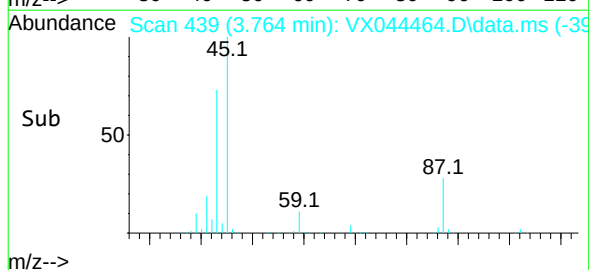
Ion Ratio Lower Upper

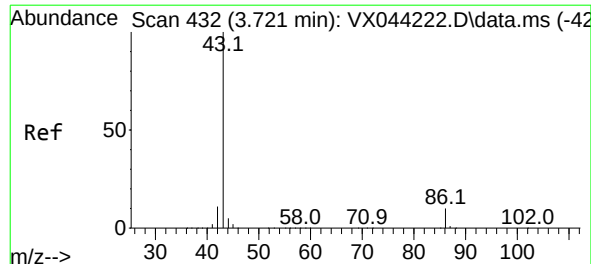
45 100

43 73.3 60.2 90.2

87 27.7 21.2 31.8

59 11.5 8.9 13.3





#23

Vinyl Acetate

Concen: 243.510 ug/l

RT: 3.721 min Scan# 43

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 1167584

Ion Ratio Lower Upper

43 100

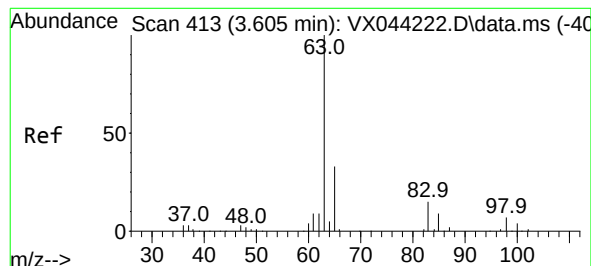
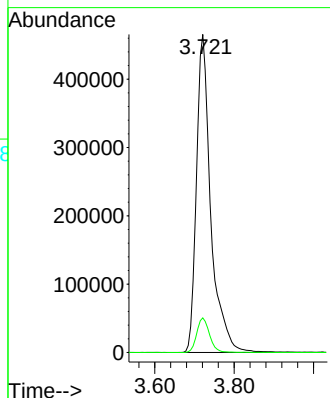
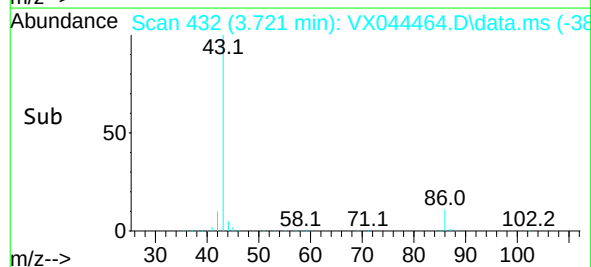
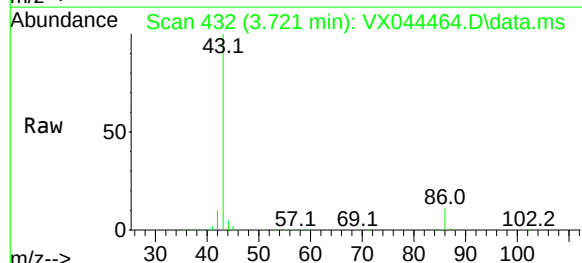
86 10.9 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#24

1,1-Dichloroethane

Concen: 48.018 ug/l

RT: 3.605 min Scan# 413

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

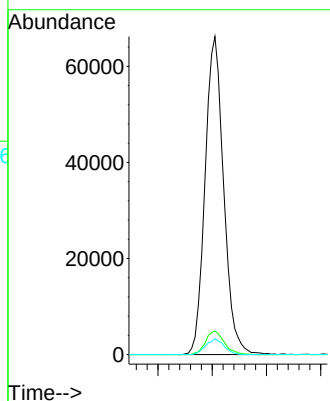
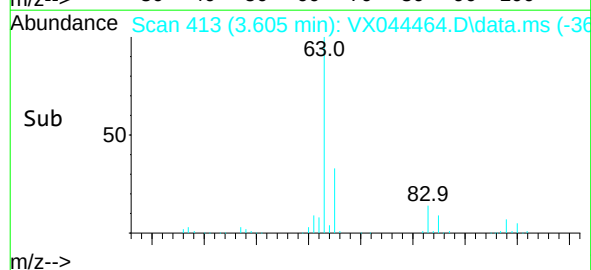
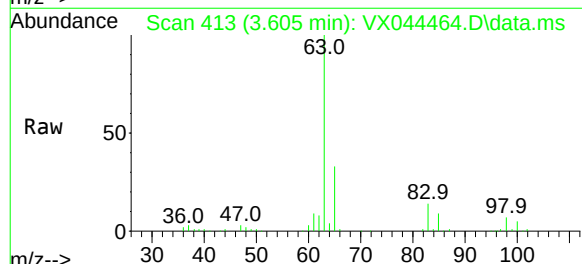
Tgt Ion: 63 Resp: 157858

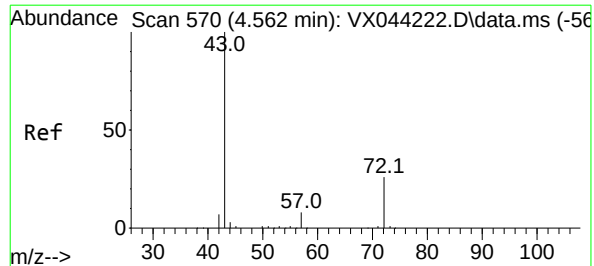
Ion Ratio Lower Upper

63 100

98 7.4 3.6 10.8

100 5.0 2.1 6.3





#25

2-Butanone

Concen: 213.237 ug/l

RT: 4.562 min Scan# 570

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 303982

Ion Ratio Lower Upper

43 100

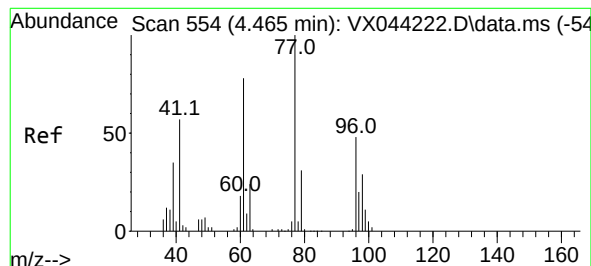
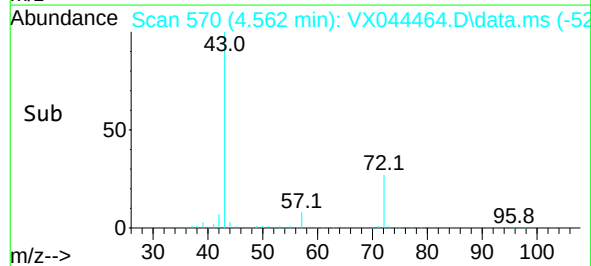
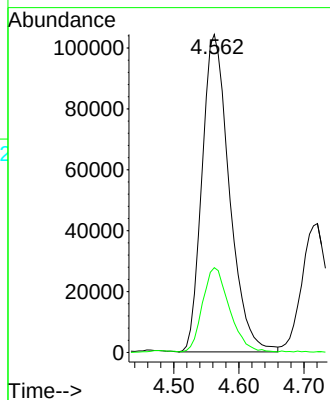
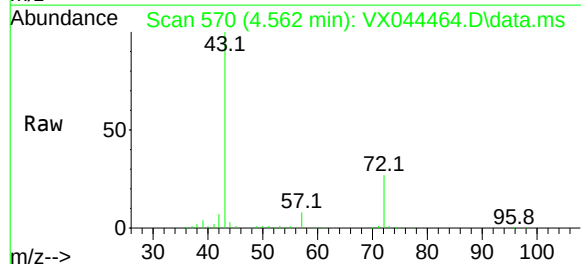
72 26.5 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#26

2,2-Dichloropropane

Concen: 43.513 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.006 min

Lab File: VX044464.D

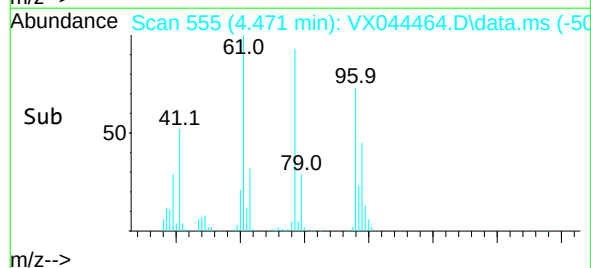
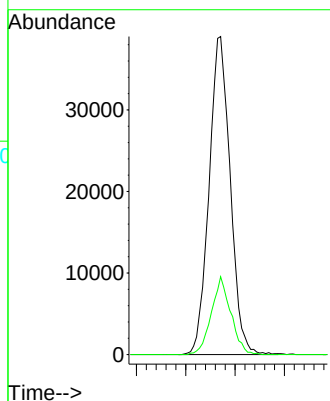
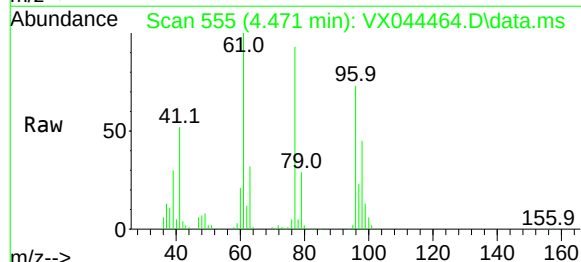
Acq: 20 Dec 2024 19:49

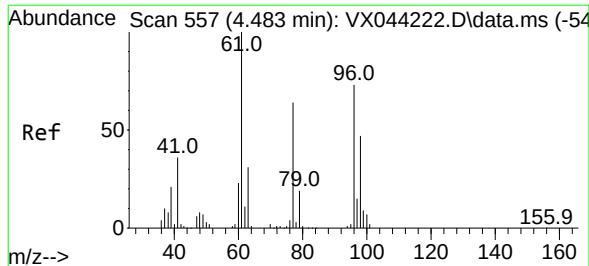
Tgt Ion: 77 Resp: 116211

Ion Ratio Lower Upper

77 100

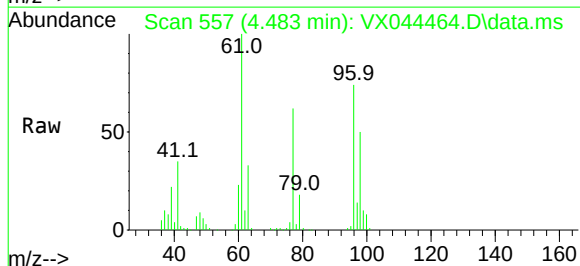
97 22.5 10.7 32.1





#27
cis-1,2-Dichloroethene
Concen: 47.511 ug/l
RT: 4.483 min Scan# 55
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

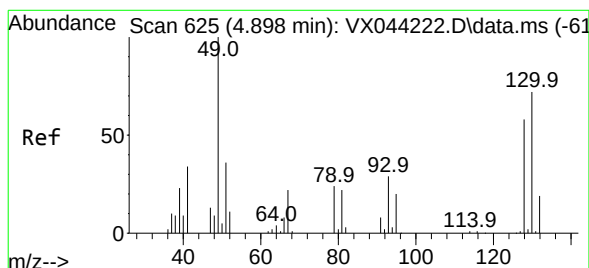
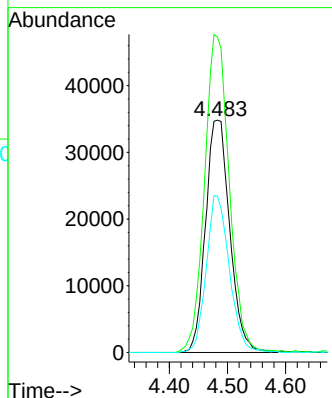
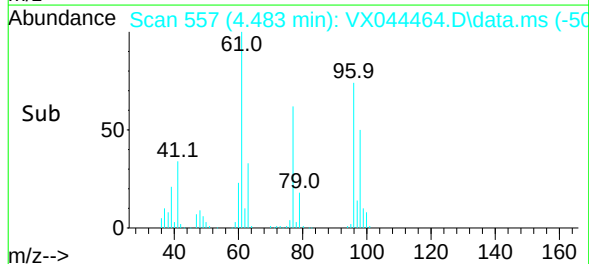
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC



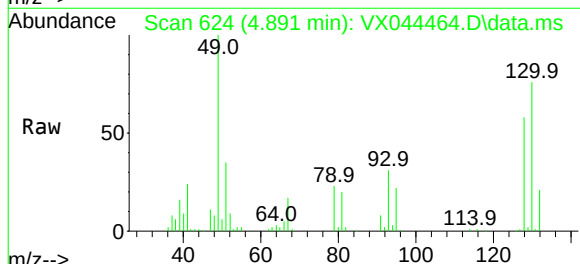
Tgt Ion: 96 Resp: 100836
Ion Ratio Lower Upper
96 100
61 139.9 0.0 299.0
98 64.5 0.0 129.0

Manual Integrations
APPROVED

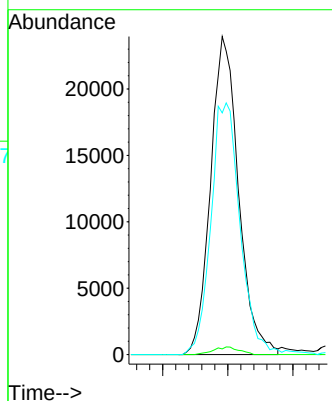
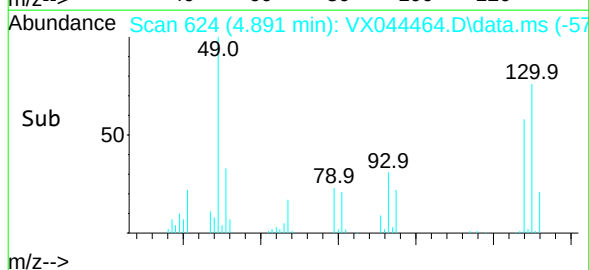
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

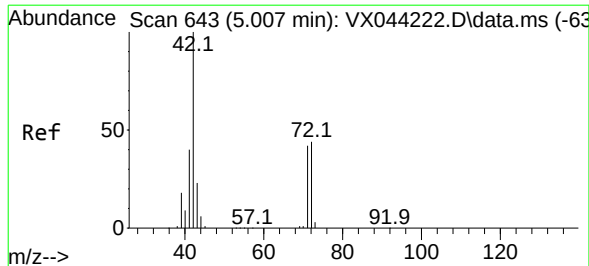


#28
Bromochloromethane
Concen: 44.369 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49



Tgt Ion: 49 Resp: 71526
Ion Ratio Lower Upper
49 100
129 2.2 0.0 4.2
130 82.1 62.1 93.1





#29

Tetrahydrofuran

Concen: 212.557 ug/l

RT: 5.007 min Scan# 64

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 42 Resp: 194494

Ion Ratio Lower Upper

42 100

72 46.1 37.0 55.6

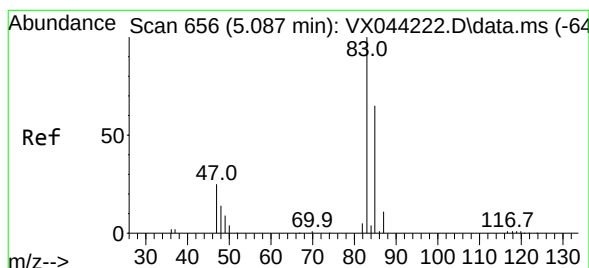
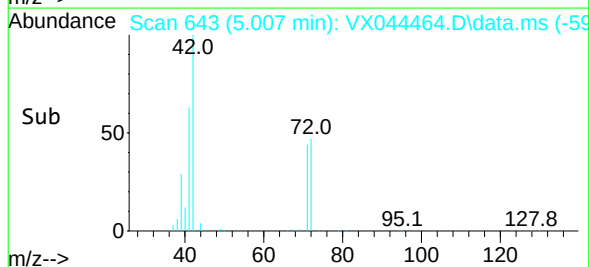
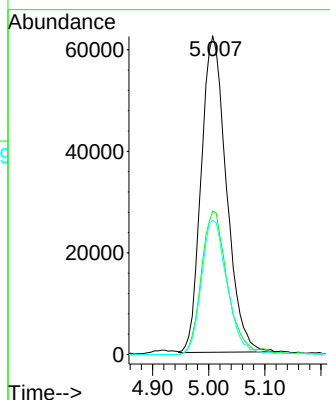
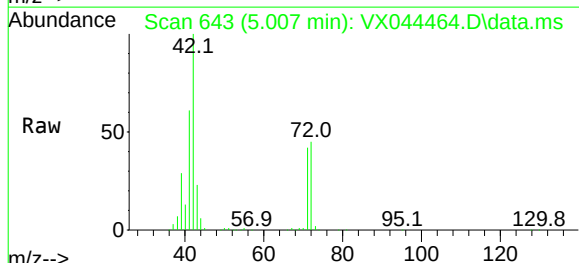
71 43.4 33.6 50.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#30

Chloroform

Concen: 45.189 ug/l

RT: 5.093 min Scan# 657

Delta R.T. 0.006 min

Lab File: VX044464.D

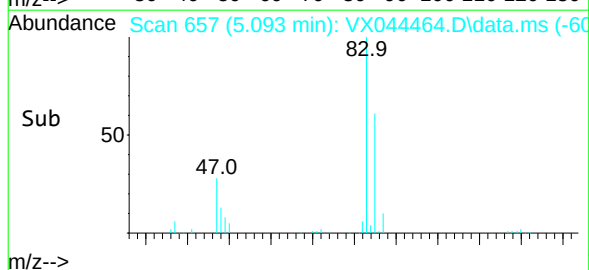
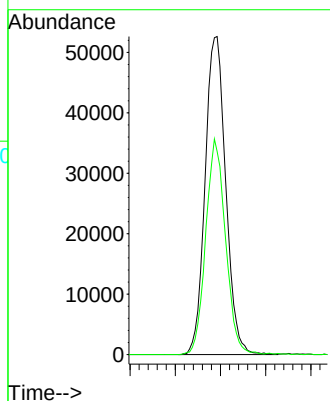
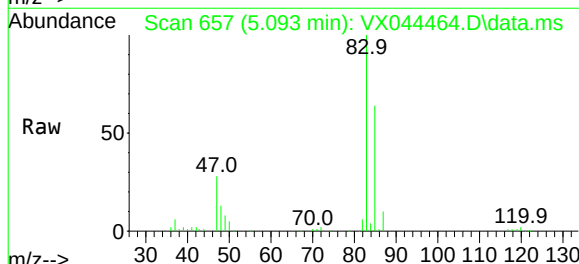
Acq: 20 Dec 2024 19:49

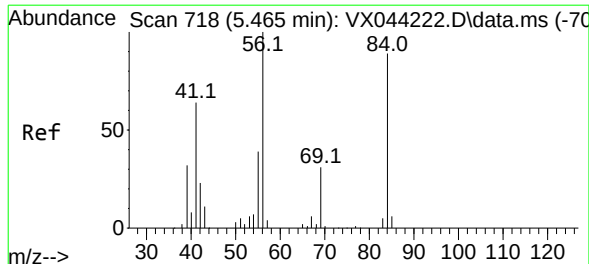
Tgt Ion: 83 Resp: 166909

Ion Ratio Lower Upper

83 100

85 63.9 51.6 77.4





#31

Cyclohexane

Concen: 46.033 ug/l

RT: 5.464 min Scan# 718

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 56 Resp: 122203

Ion Ratio Lower Upper

56 100

69 31.7 24.7 37.1

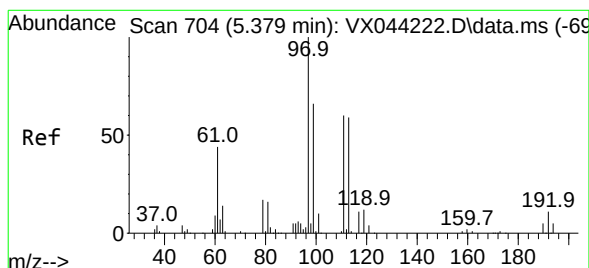
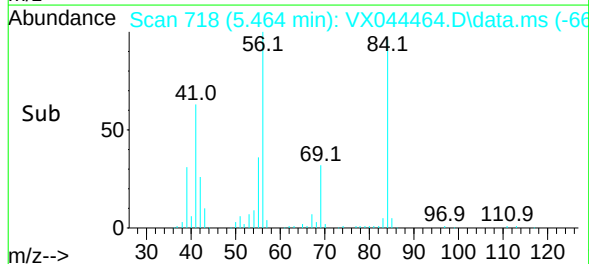
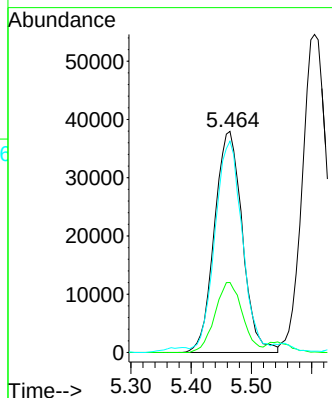
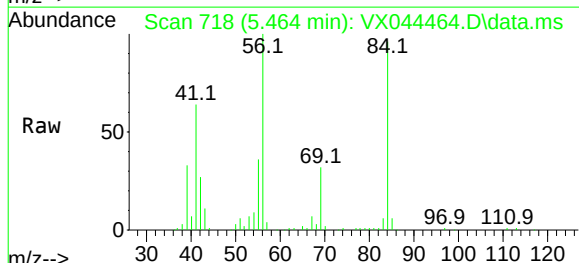
84 93.5 71.0 106.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#32

1,1,1-Trichloroethane

Concen: 47.095 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

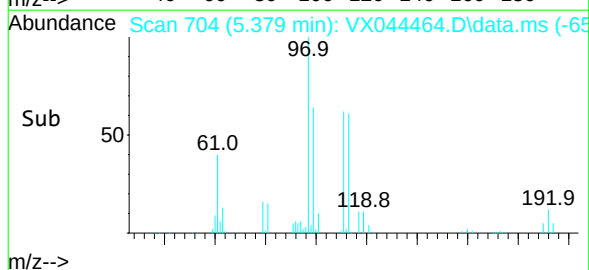
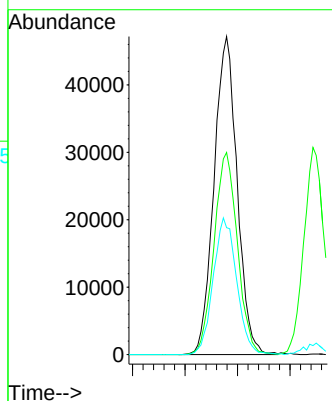
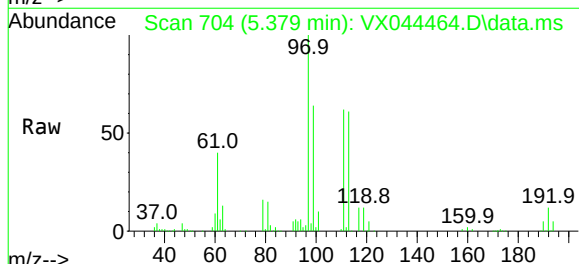
Tgt Ion: 97 Resp: 144394

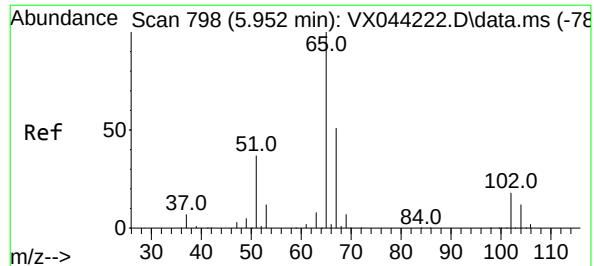
Ion Ratio Lower Upper

97 100

99 64.3 50.8 76.2

61 43.7 35.2 52.8





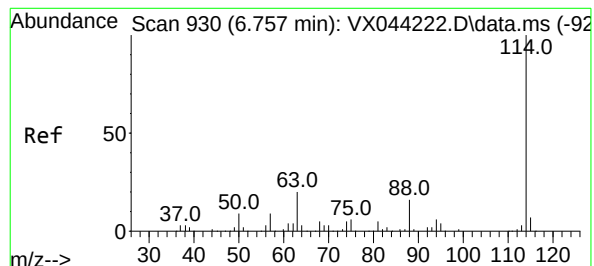
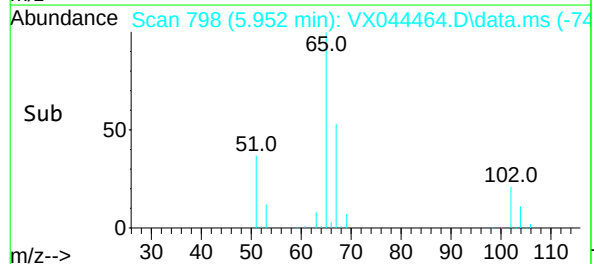
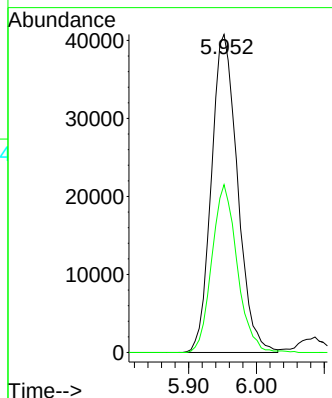
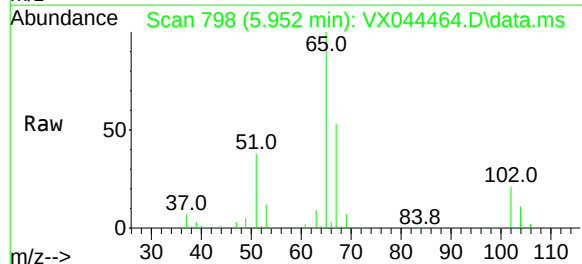
#33
1,2-Dichloroethane-d4
Concen: 44.357 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 109103
Ion Ratio Lower Upper
65 100
67 51.2 0.0 101.6

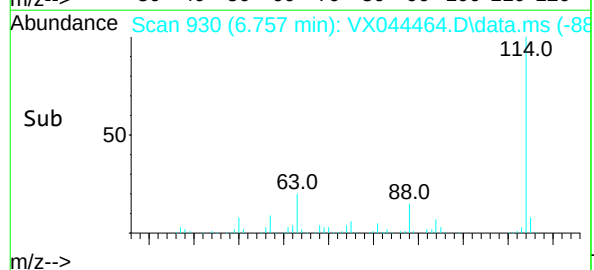
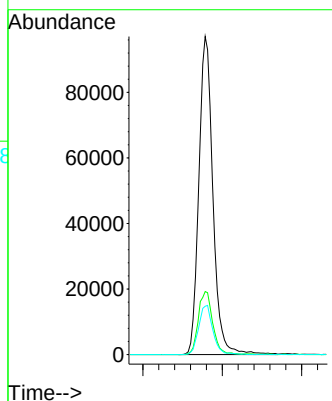
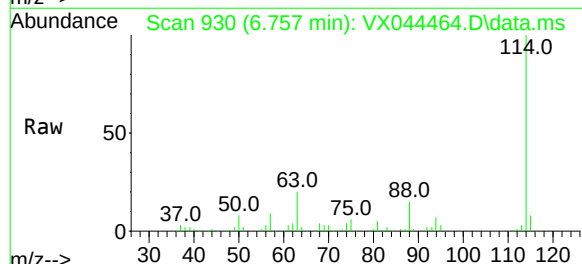
Manual Integrations
APPROVED

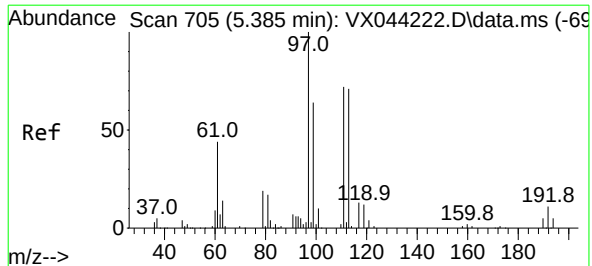
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:114 Resp: 239068
Ion Ratio Lower Upper
114 100
63 19.8 0.0 40.6
88 15.2 0.0 31.8





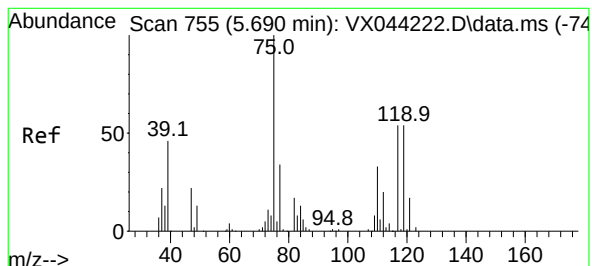
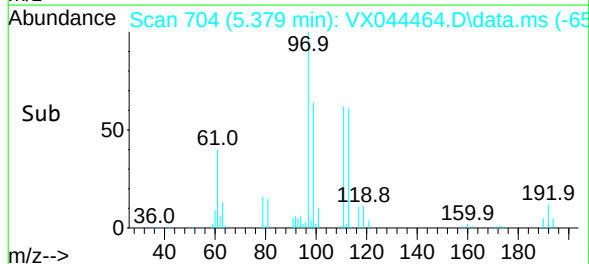
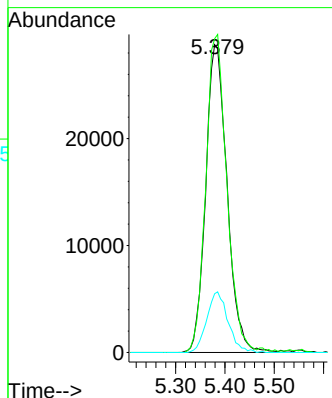
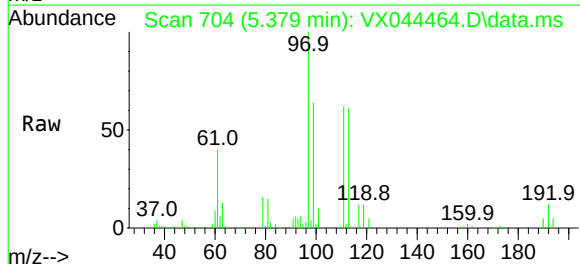
#35
Dibromofluoromethane
Concen: 52.347 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.4	80.4	120.6
192	19.6	13.3	19.9

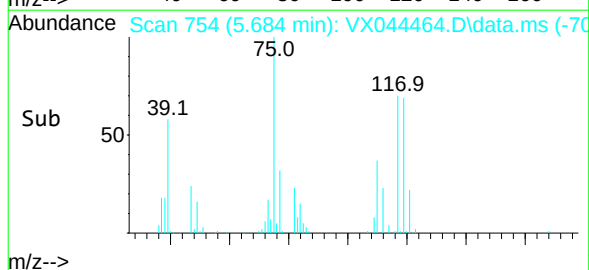
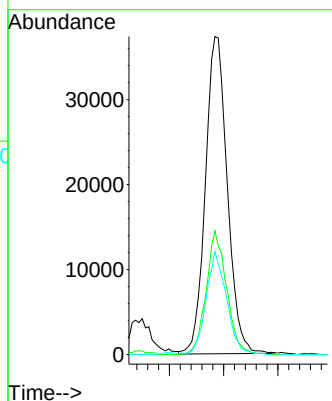
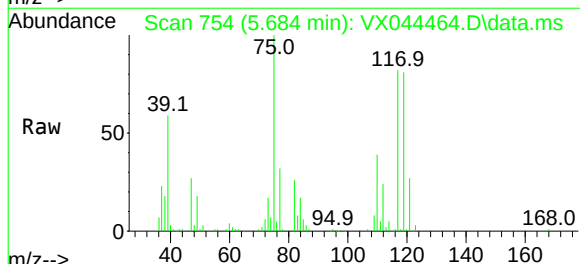
Manual Integrations
APPROVED

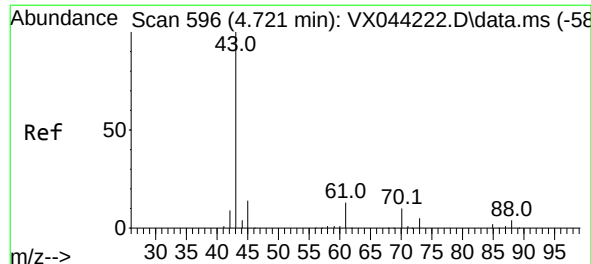
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#36
1,1-Dichloropropene
Concen: 49.017 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.5	17.3	51.7
77	30.4	25.4	38.0





#37

Ethyl Acetate

Concen: 48.180 ug/l

RT: 4.721 min Scan# 596

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 127468

Ion Ratio Lower Upper

43 100

61 12.3 9.8 14.8

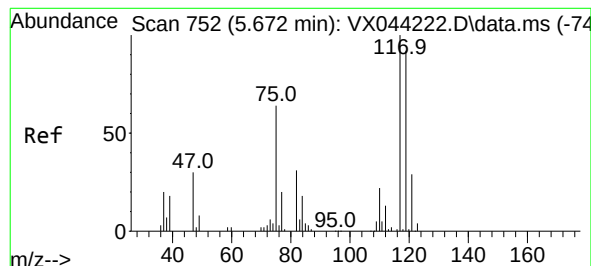
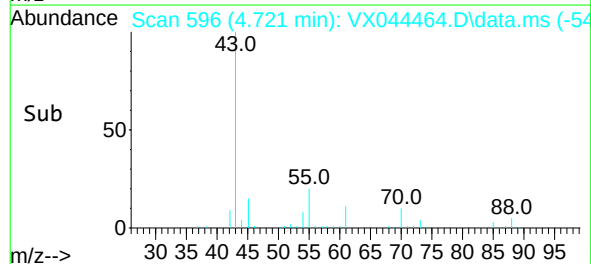
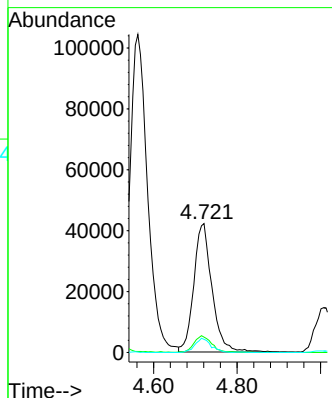
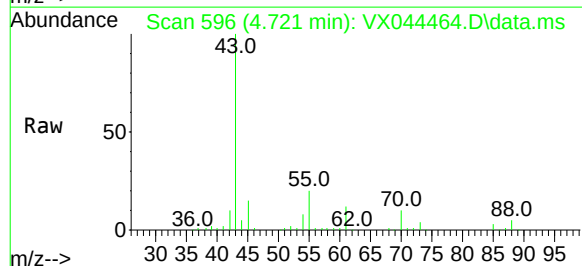
70 9.7 7.7 11.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#38

Carbon Tetrachloride

Concen: 51.365 ug/l

RT: 5.666 min Scan# 751

Delta R.T. -0.006 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

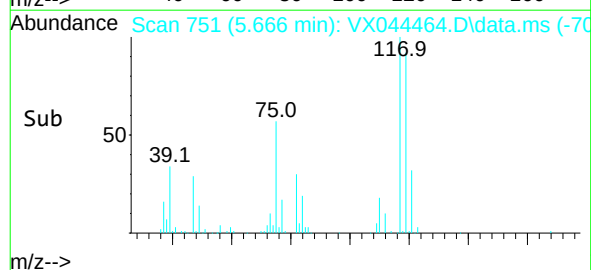
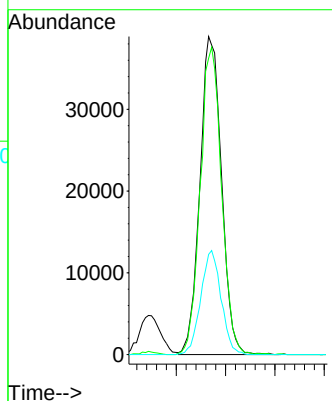
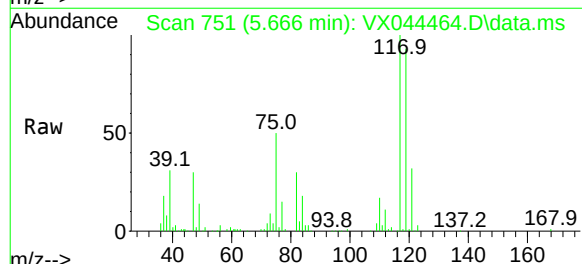
Tgt Ion:117 Resp: 118357

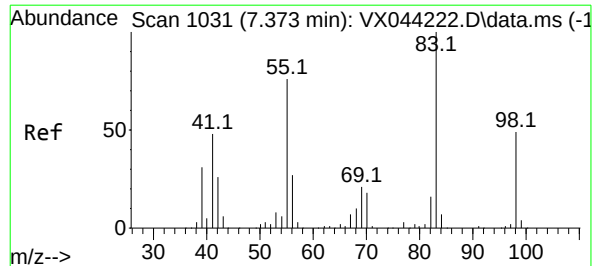
Ion Ratio Lower Upper

117 100

119 93.0 74.2 111.4

121 31.5 23.0 34.6





#39

Methylcyclohexane

Concen: 51.370 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 83 Resp: 131438

Ion Ratio Lower Upper

83 100

55 71.4 60.7 91.1

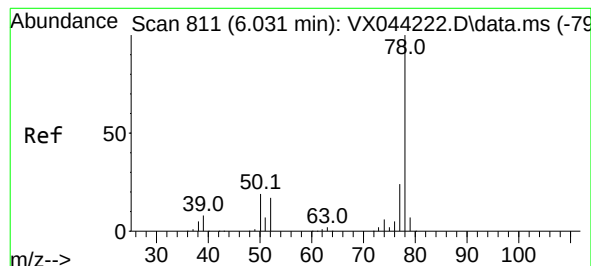
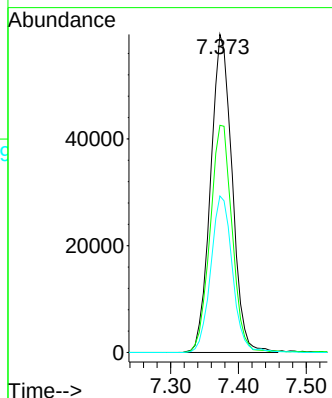
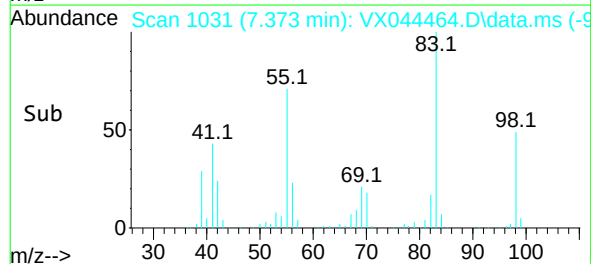
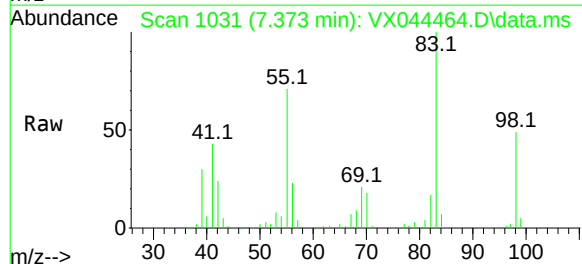
98 49.2 38.9 58.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#40

Benzene

Concen: 51.262 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX044464.D

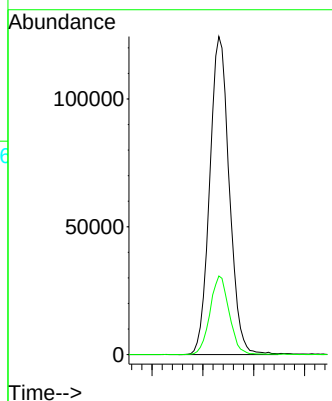
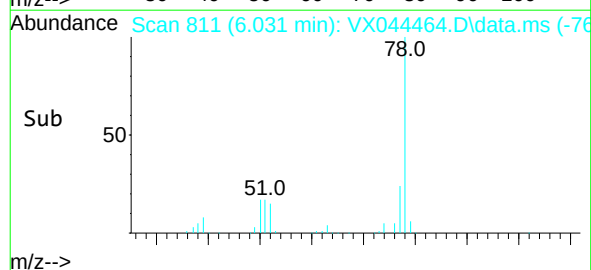
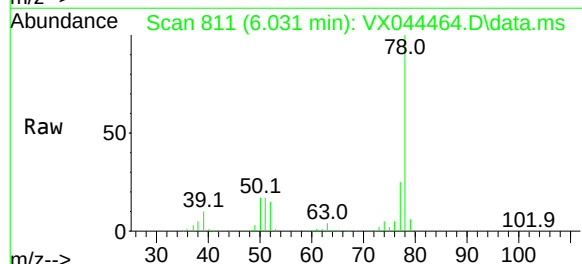
Acq: 20 Dec 2024 19:49

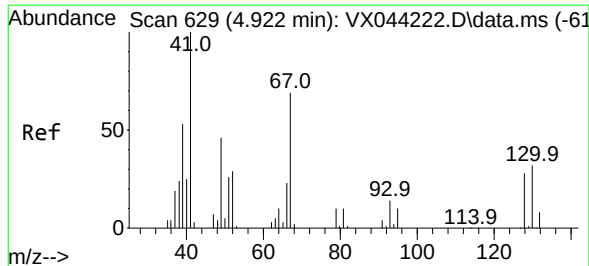
Tgt Ion: 78 Resp: 333117

Ion Ratio Lower Upper

78 100

77 24.7 19.3 28.9





#41

Methacrylonitrile

Concen: 47.401 ug/l

RT: 4.922 min Scan# 62

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDC050EC

Tgt Ion: 41 Resp: 66592

Ion Ratio Lower Upper

41 100

39 55.8 44.2 66.4

67 72.7 57.2 85.8

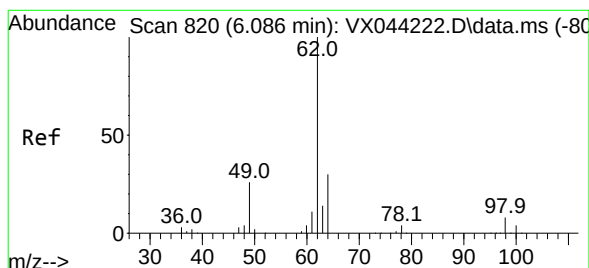
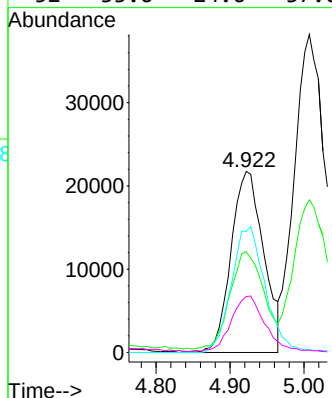
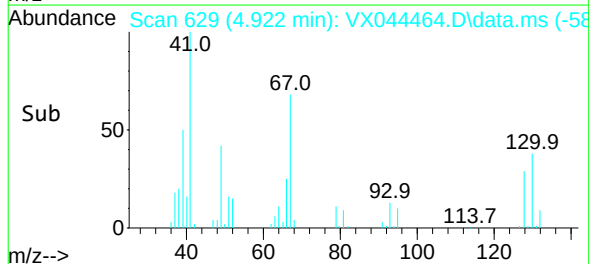
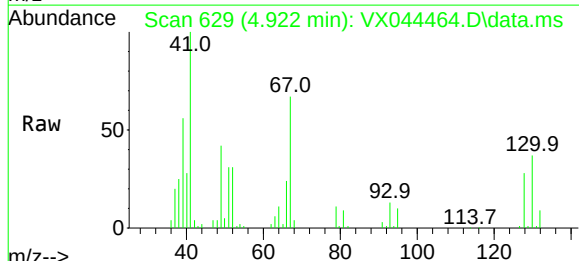
52 33.6 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#42

1,2-Dichloroethane

Concen: 47.680 ug/l

RT: 6.080 min Scan# 819

Delta R.T. -0.006 min

Lab File: VX044464.D

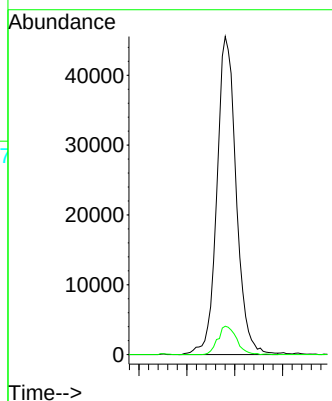
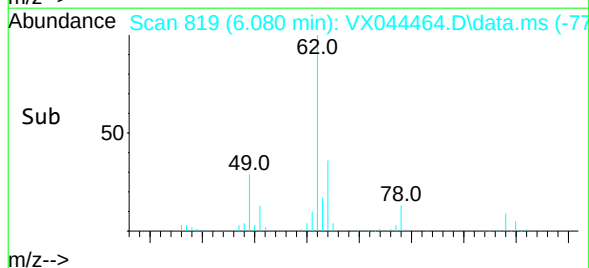
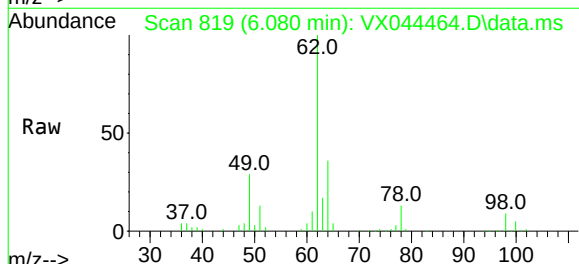
Acq: 20 Dec 2024 19:49

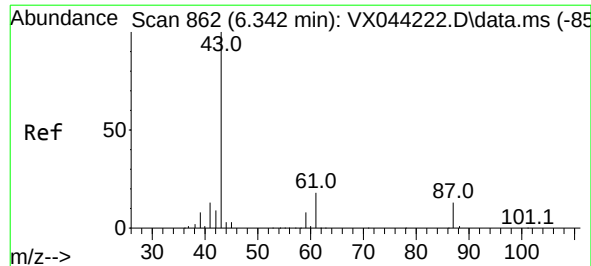
Tgt Ion: 62 Resp: 127634

Ion Ratio Lower Upper

62 100

98 8.6 0.0 15.8





#43

Isopropyl Acetate

Concen: 48.047 ug/l

RT: 6.342 min Scan# 86

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 198680

Ion Ratio Lower Upper

43 100

61 18.6 14.2 21.2

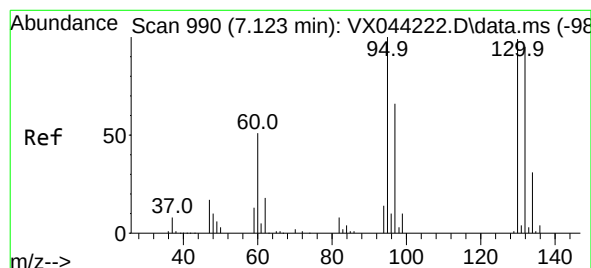
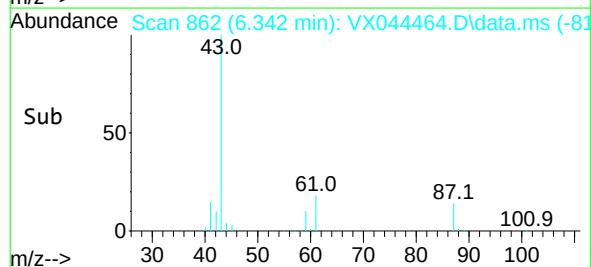
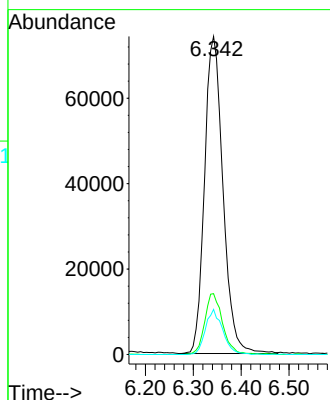
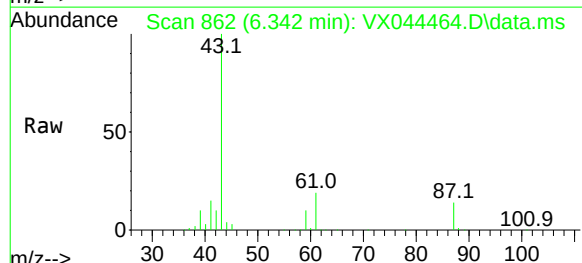
87 13.3 10.2 15.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#44

Trichloroethene

Concen: 53.083 ug/l

RT: 7.117 min Scan# 989

Delta R.T. -0.006 min

Lab File: VX044464.D

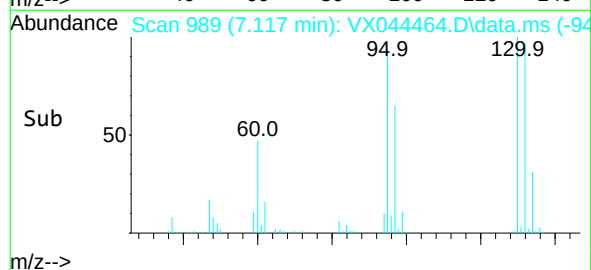
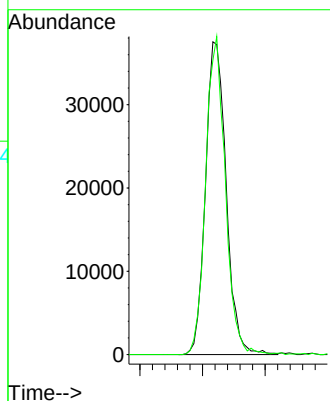
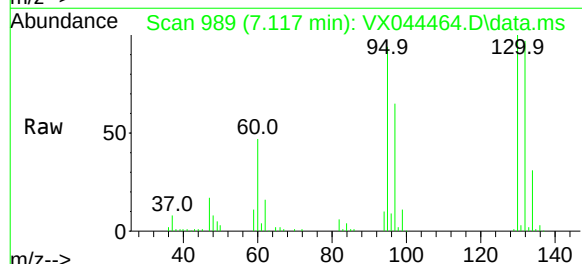
Acq: 20 Dec 2024 19:49

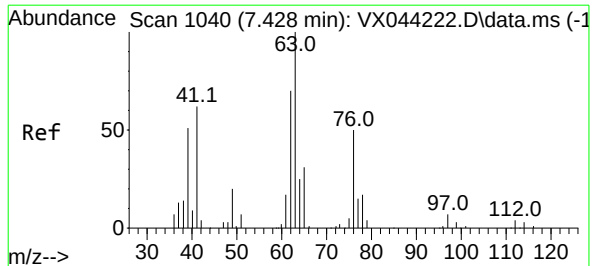
Tgt Ion:130 Resp: 86021

Ion Ratio Lower Upper

130 100

95 94.1 0.0 201.4





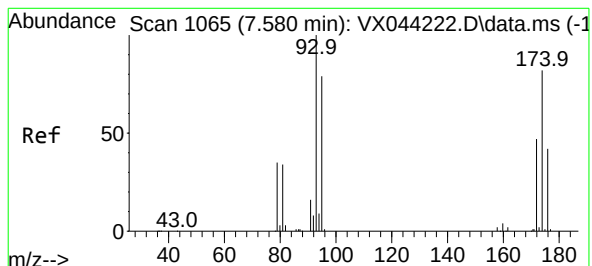
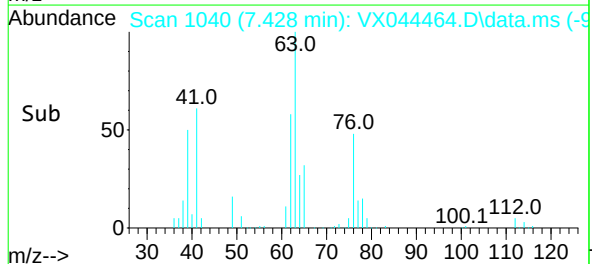
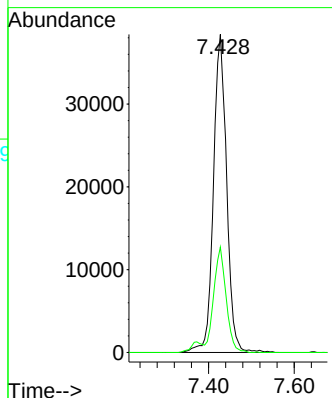
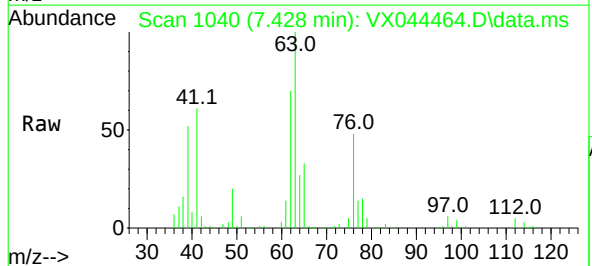
#45
1,2-Dichloropropane
Concen: 49.622 ug/l
RT: 7.428 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 82383
Ion Ratio Lower Upper
63 100
65 33.1 24.6 37.0

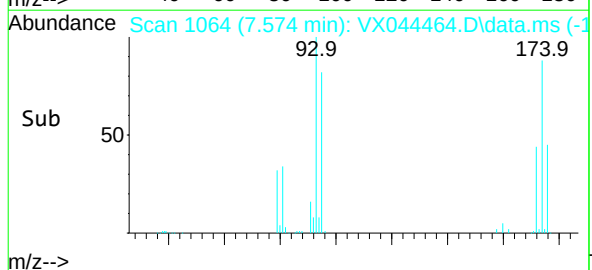
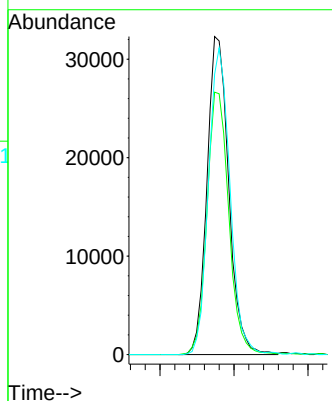
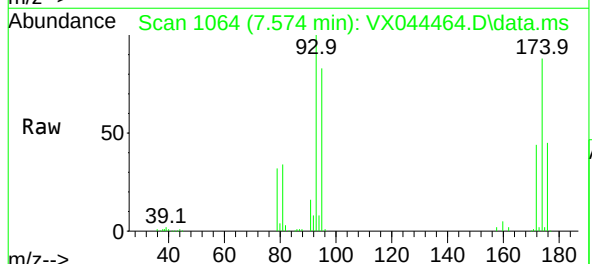
Manual Integrations
APPROVED

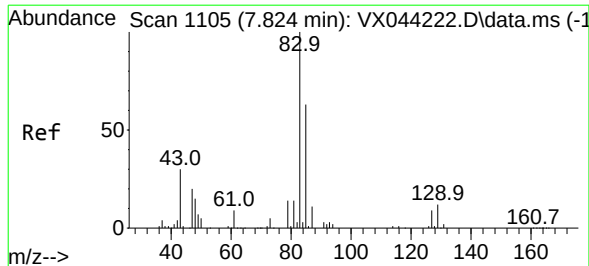
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#46
Dibromomethane
Concen: 51.184 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 93 Resp: 65924
Ion Ratio Lower Upper
93 100
95 82.6 65.4 98.2
174 95.5 67.9 101.9





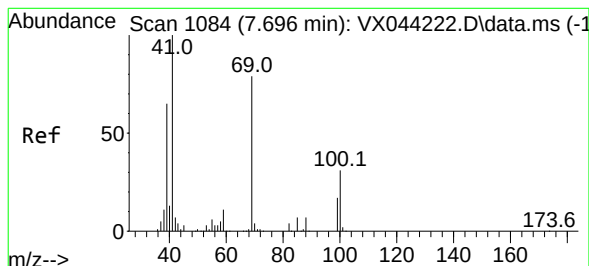
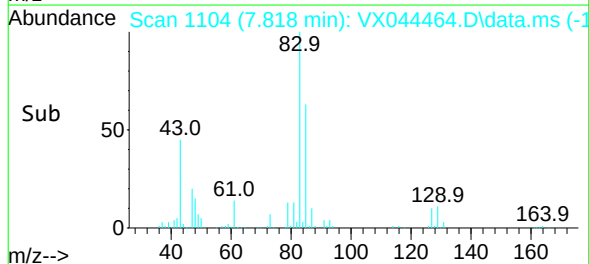
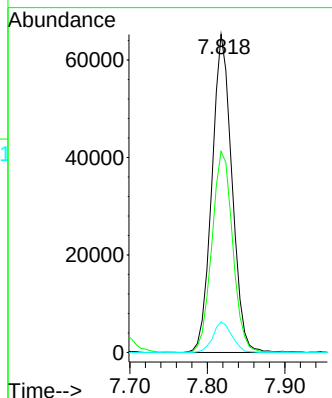
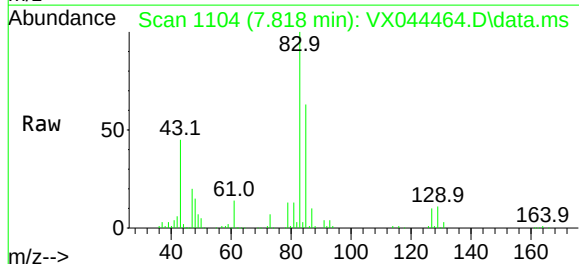
#47
Bromodichloromethane
Concen: 52.723 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 117278
Ion Ratio Lower Upper
83 100
85 63.2 50.6 75.8
127 9.6 7.3 10.9

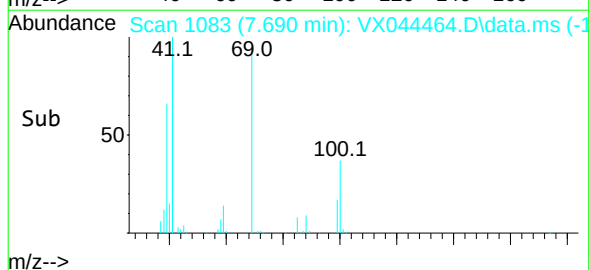
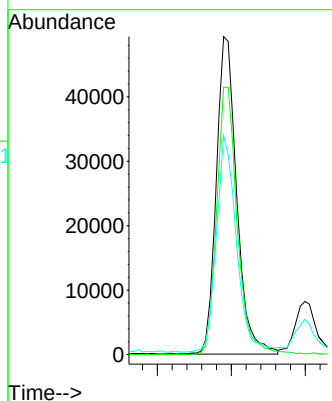
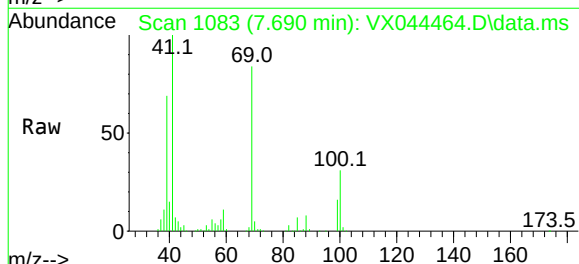
Manual Integrations
APPROVED

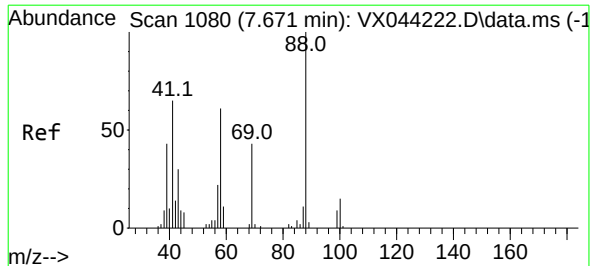
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#48
Methyl methacrylate
Concen: 47.115 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 41 Resp: 94575
Ion Ratio Lower Upper
41 100
69 84.6 62.4 93.6
39 66.9 53.3 79.9





#49

1,4-Dioxane

Concen: 1003.530 ug/l

RT: 7.659 min Scan# 1080

Delta R.T. -0.012 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 88 Resp: 33398

Ion Ratio Lower Upper

88 100

43 27.8 27.1 40.7

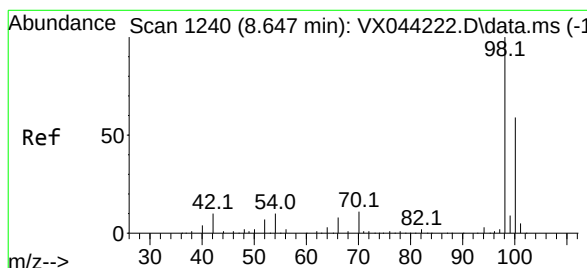
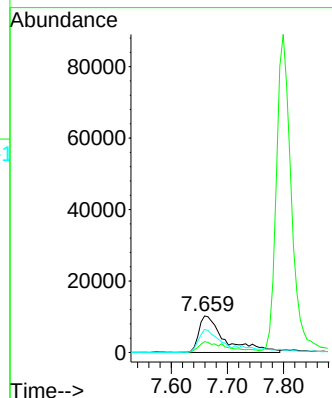
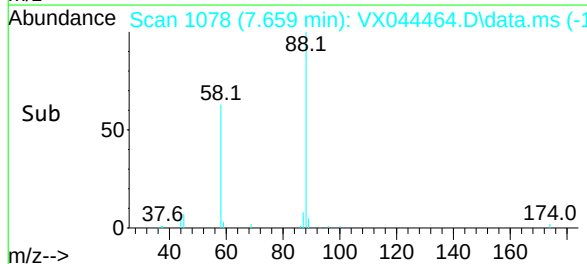
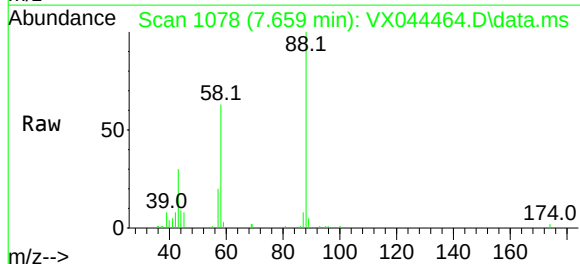
58 48.6 41.0 61.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#50

Toluene-d8

Concen: 51.923 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX044464.D

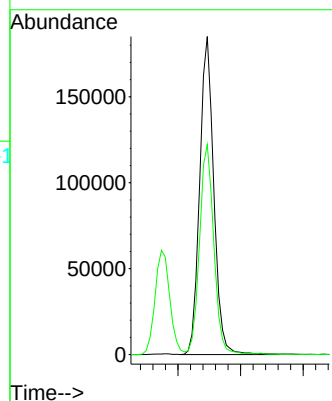
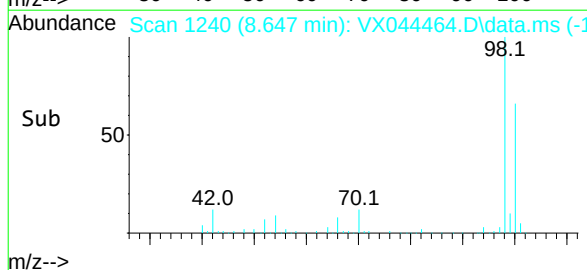
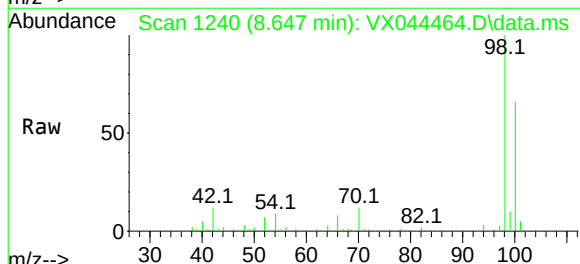
Acq: 20 Dec 2024 19:49

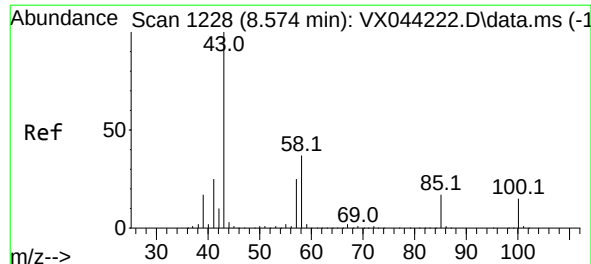
Tgt Ion: 98 Resp: 290046

Ion Ratio Lower Upper

98 100

100 66.0 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 235.413 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 625919

Ion Ratio Lower Upper

43 100

58 37.5 29.4 44.0

Instrument :

MSVOA_X

ClientSampleId :

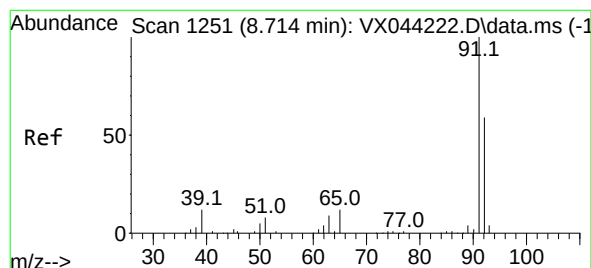
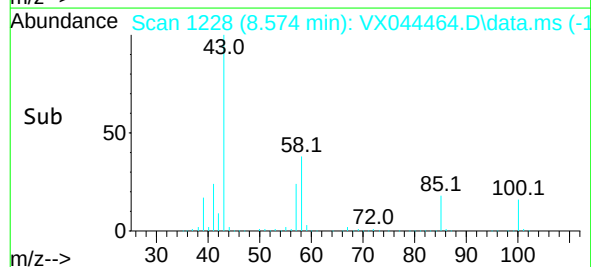
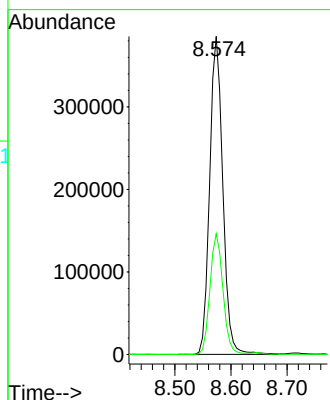
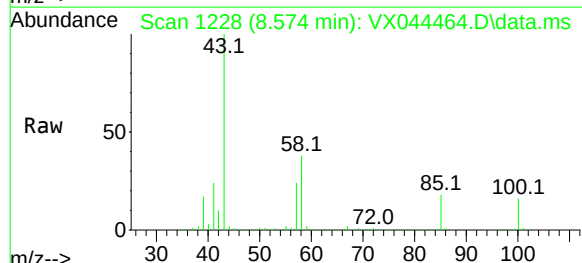
VSTDCCC050EC

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#52

Toluene

Concen: 50.071 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. -0.000 min

Lab File: VX044464.D

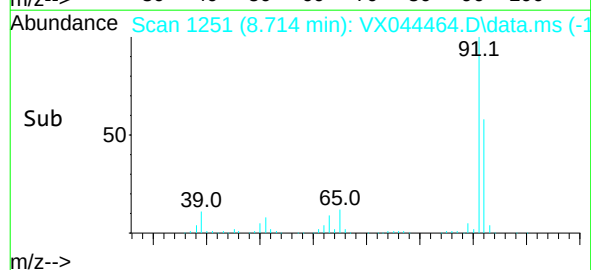
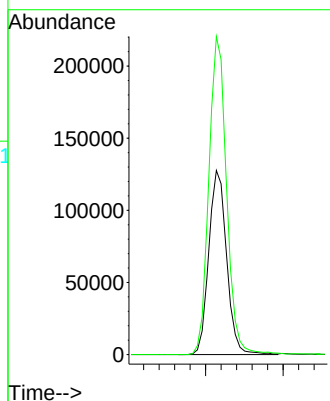
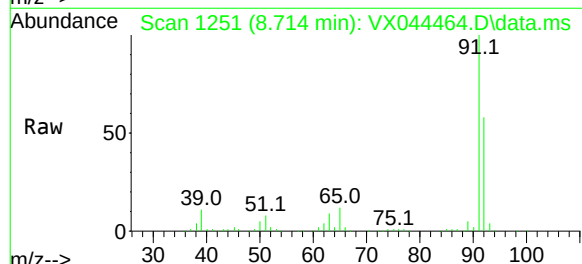
Acq: 20 Dec 2024 19:49

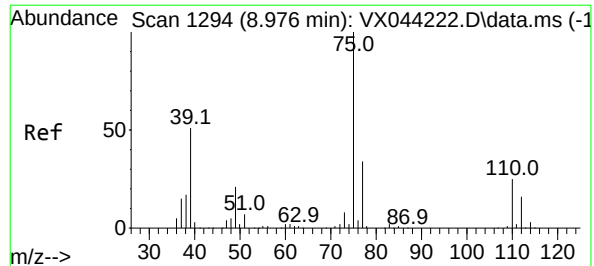
Tgt Ion: 92 Resp: 204328

Ion Ratio Lower Upper

92 100

91 171.3 137.0 205.6





#53

t-1,3-Dichloropropene

Concen: 48.388 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 75 Resp: 115268

Ion Ratio Lower Upper

75 100

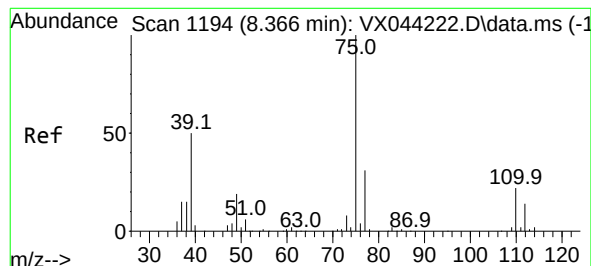
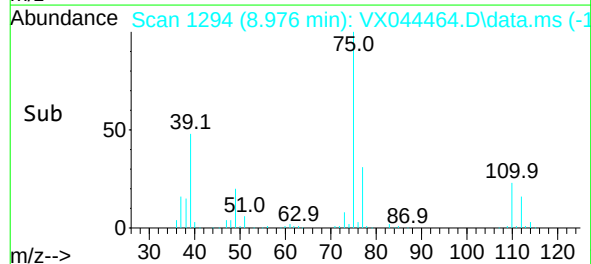
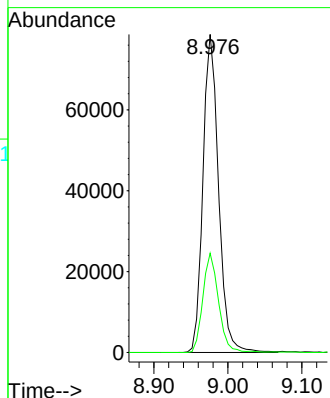
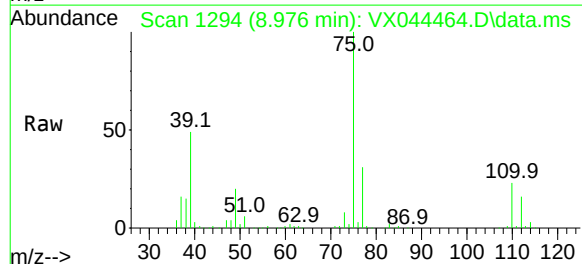
77 31.2 27.2 40.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#54

cis-1,3-Dichloropropene

Concen: 52.437 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

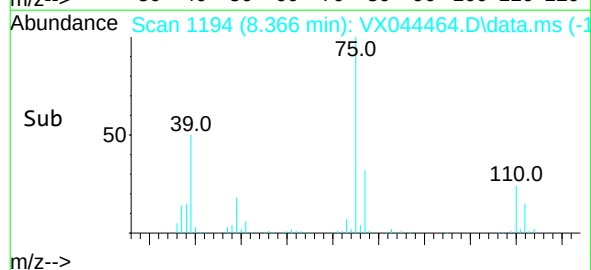
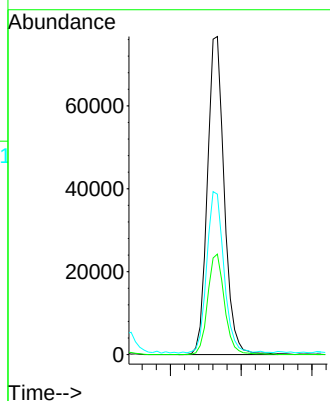
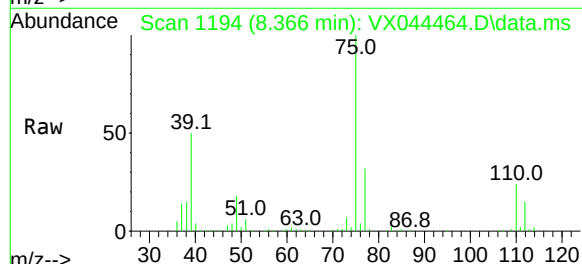
Tgt Ion: 75 Resp: 127004

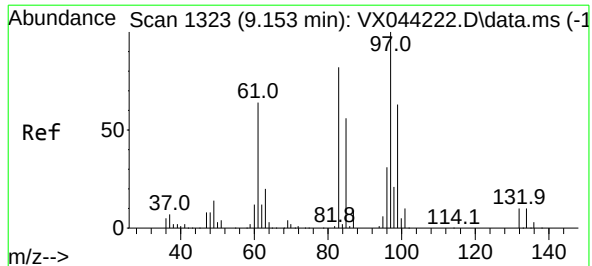
Ion Ratio Lower Upper

75 100

77 31.6 24.7 37.1

39 50.0 40.3 60.5





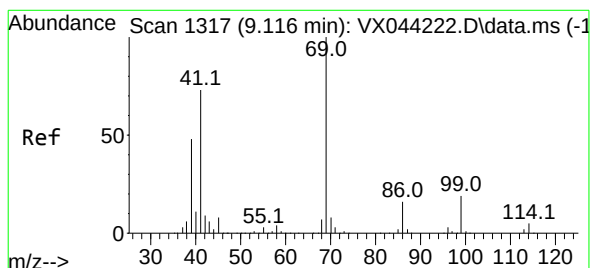
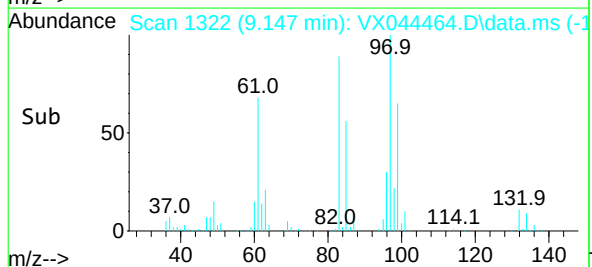
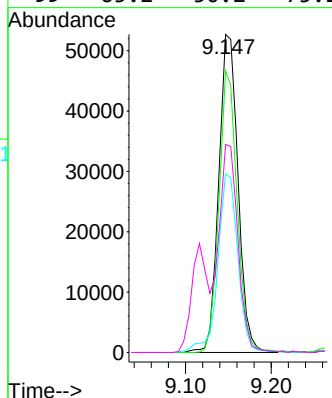
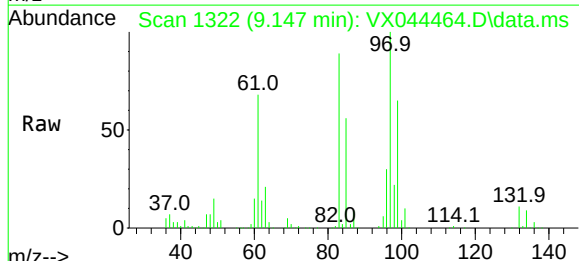
#55
1,1,2-Trichloroethane
Concen: 50.814 ug/l
RT: 9.147 min Scan# 1323
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
97	100		
83	88.5	65.3	97.9
85	56.0	44.6	67.0
99	65.2	50.2	75.2

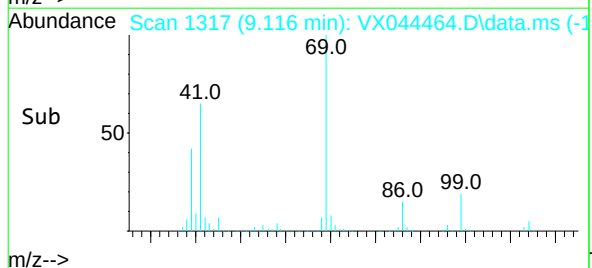
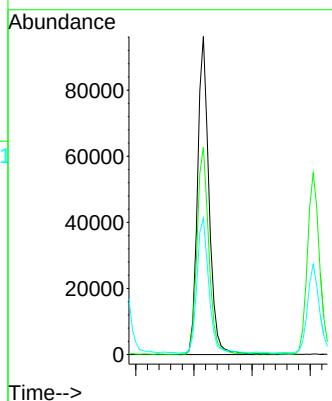
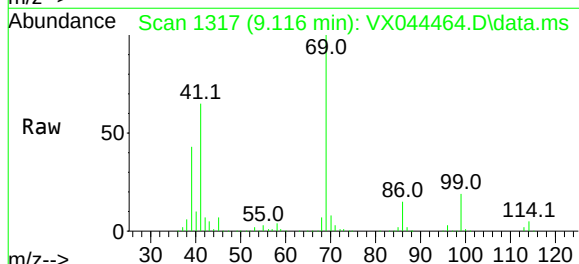
Manual Integrations
APPROVED

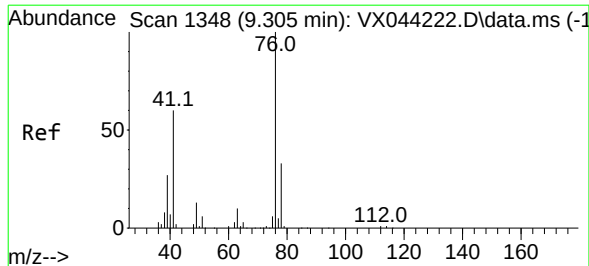
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#56
Ethyl methacrylate
Concen: 51.516 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion	Ratio	Lower	Upper
69	100		
41	66.5	56.6	85.0
39	43.7	37.4	56.0





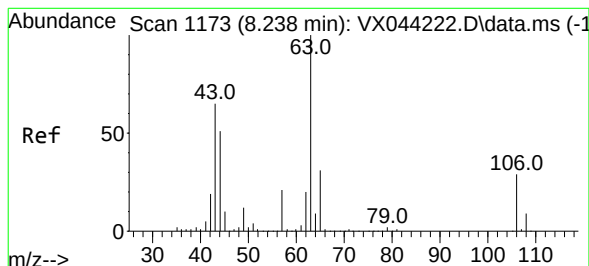
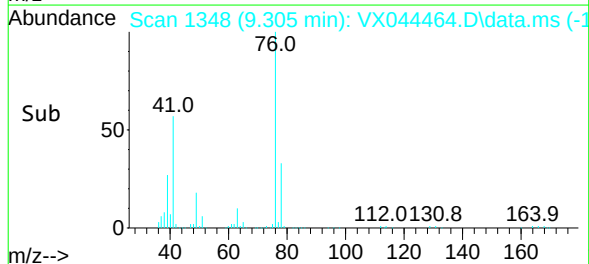
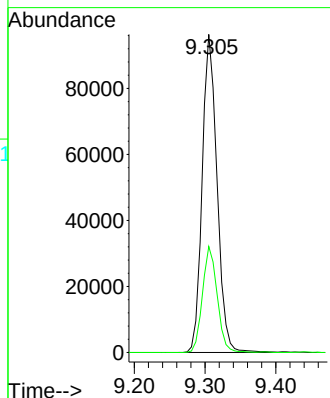
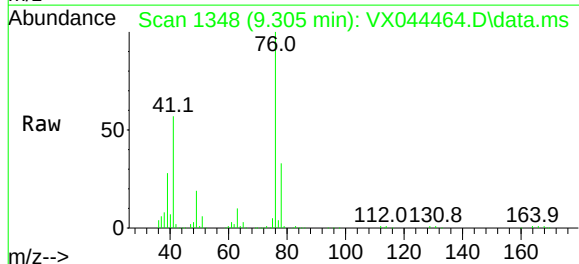
#57
1,3-Dichloropropane
Concen: 49.799 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 140522
Ion Ratio Lower Upper
76 100
78 33.0 26.5 39.7

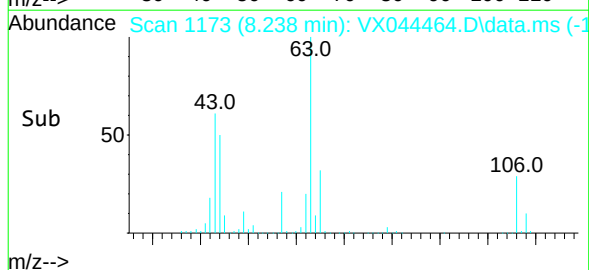
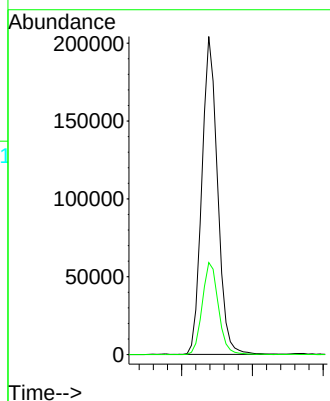
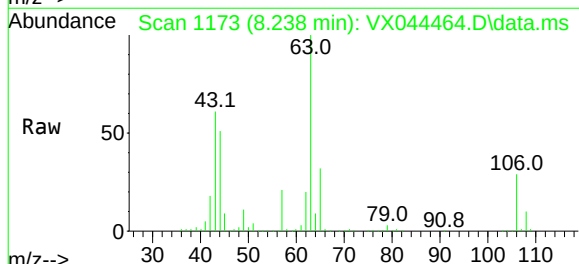
Manual Integrations
APPROVED

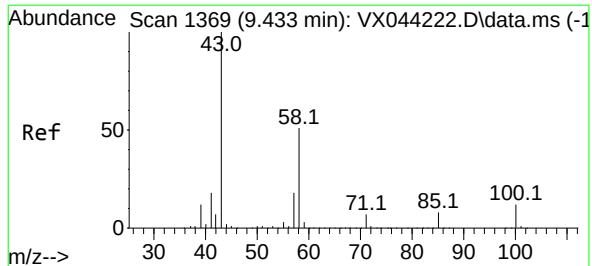
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#58
2-Chloroethyl Vinyl ether
Concen: 243.652 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 63 Resp: 314516
Ion Ratio Lower Upper
63 100
106 29.8 22.8 34.2





#59

2-Hexanone

Concen: 236.376 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 454909

Ion Ratio Lower Upper

43 100

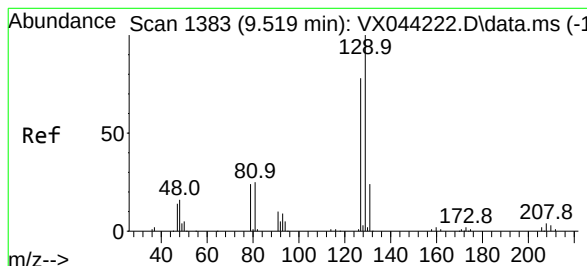
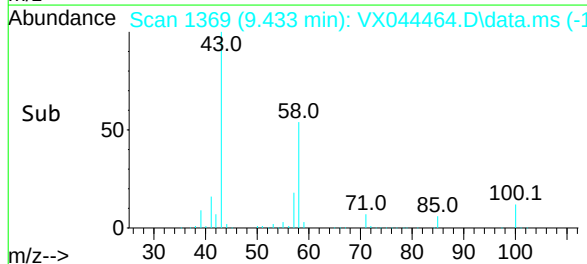
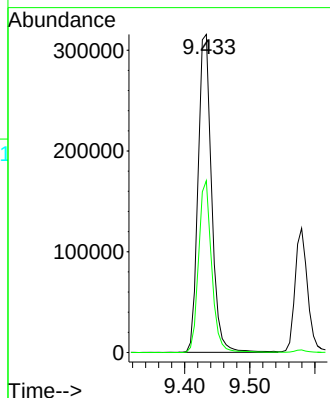
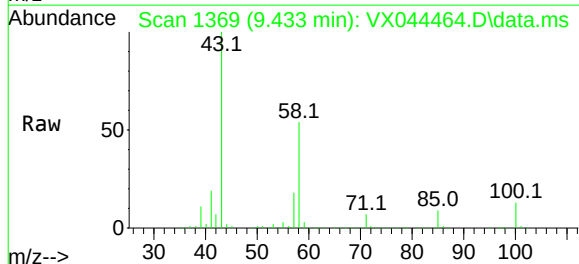
58 52.3 25.7 77.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#60

Dibromochloromethane

Concen: 50.206 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX044464.D

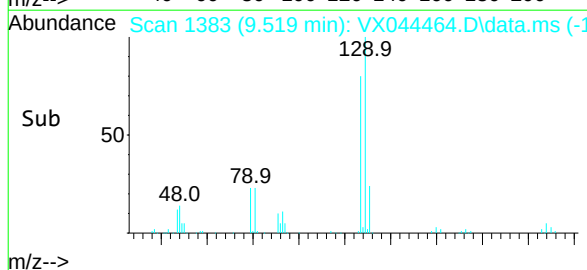
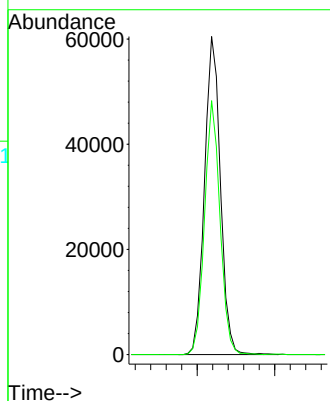
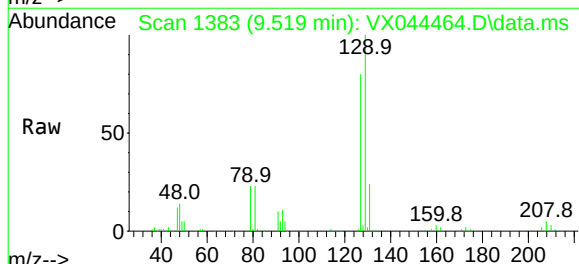
Acq: 20 Dec 2024 19:49

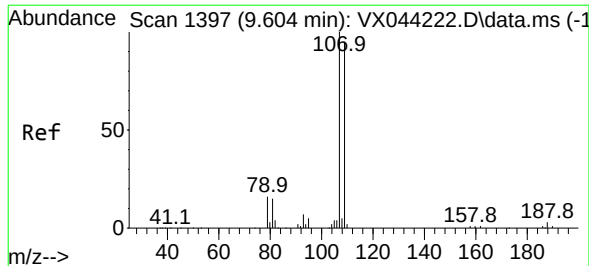
Tgt Ion:129 Resp: 86219

Ion Ratio Lower Upper

129 100

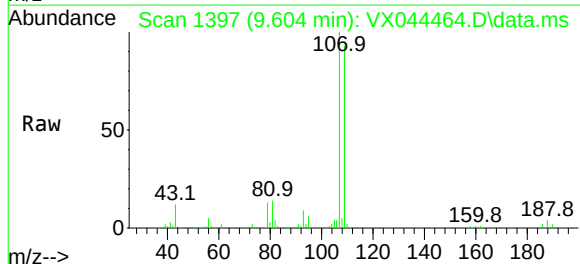
127 77.4 38.5 115.3





#61
1,2-Dibromoethane
Concen: 53.053 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

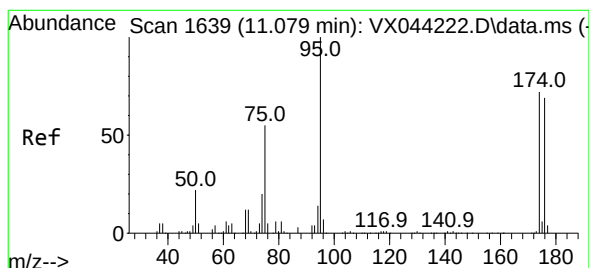
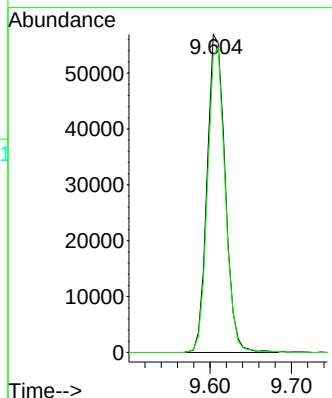
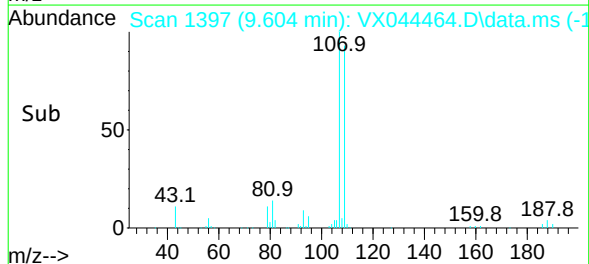
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 107 Resp: 87547
Ion Ratio Lower Upper
107 100
109 94.1 77.0 115.4

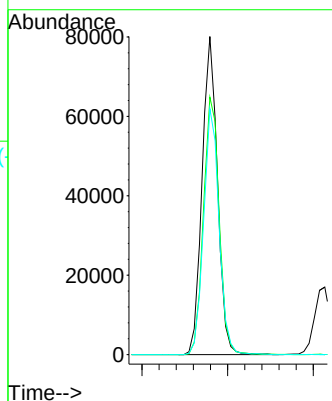
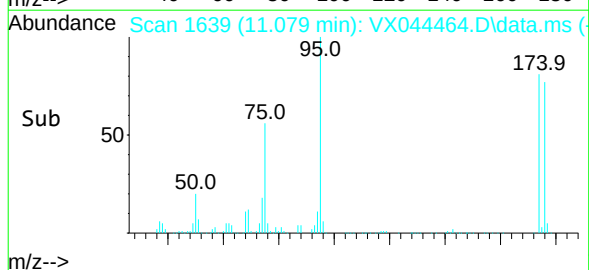
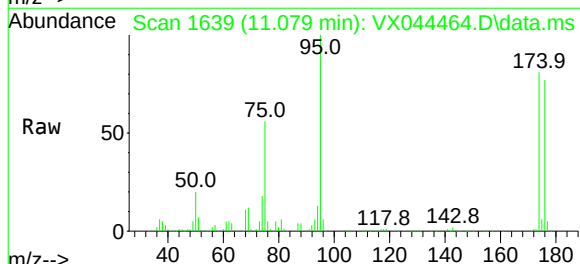
Manual Integrations
APPROVED

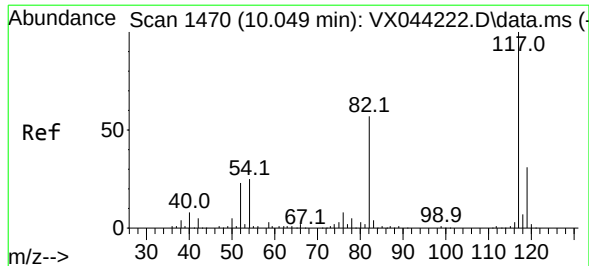
Reviewed By : Semsettin Yesilyurt 12/23/2024
Supervised By : Mahesh Dadoda 12/24/2024



#62
4-Bromofluorobenzene
Concen: 51.161 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 95 Resp: 99862
Ion Ratio Lower Upper
95 100
174 83.0 0.0 145.8
176 77.6 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.006 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

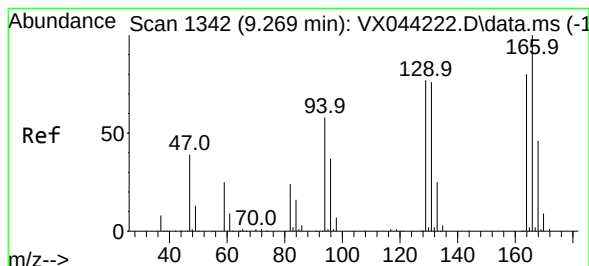
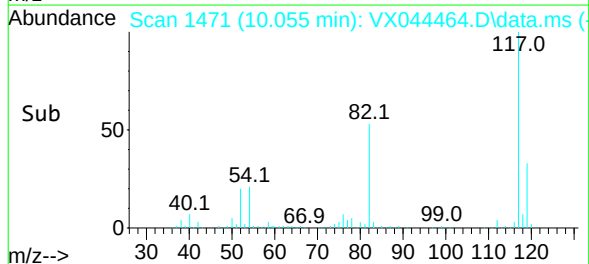
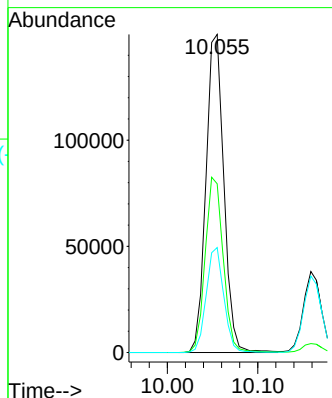
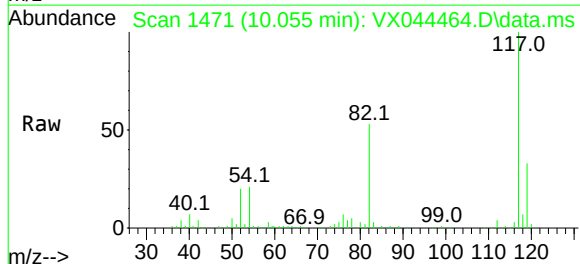
Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion:	117	Resp:	206477
Ion	Ratio	Lower	Upper
117	100		
82	53.0	45.8	68.8
119	33.0	25.0	37.4

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

#64

Tetrachloroethene

Concen: 51.727 ug/l

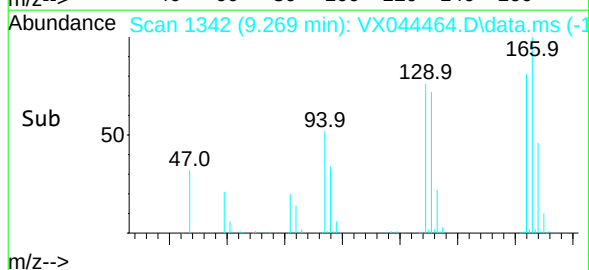
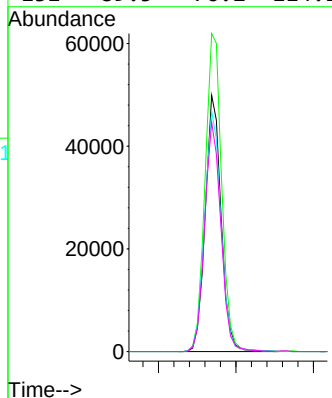
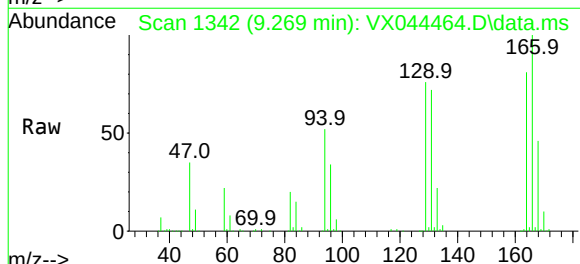
RT: 9.269 min Scan# 1342

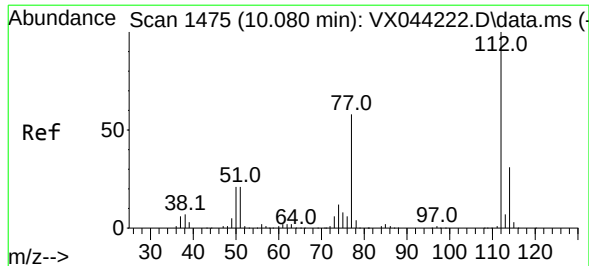
Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Tgt Ion:	164	Resp:	70888
Ion	Ratio	Lower	Upper
164	100		
166	124.1	100.4	150.6
129	93.8	77.2	115.8
131	89.5	76.2	114.2





#65

Chlorobenzene

Concen: 51.056 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion:112 Resp: 225888

Ion Ratio Lower Upper

112 100

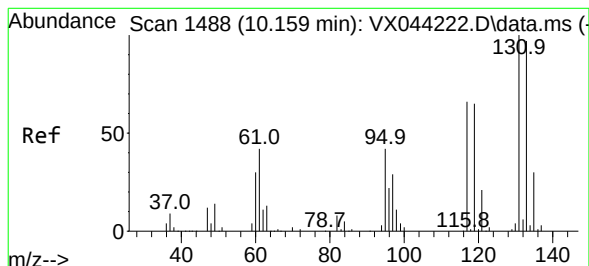
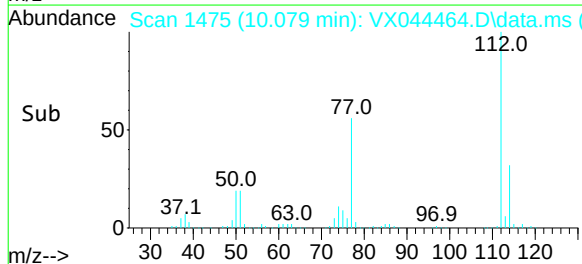
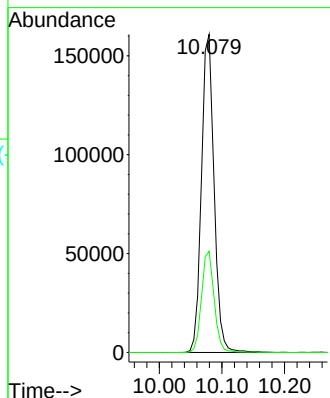
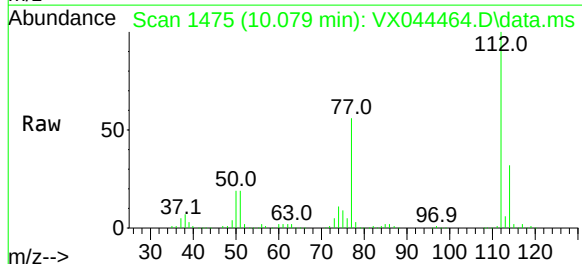
114 31.8 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 55.601 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

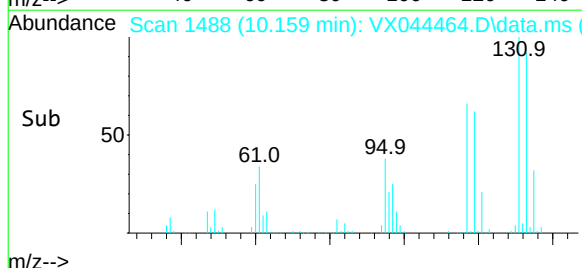
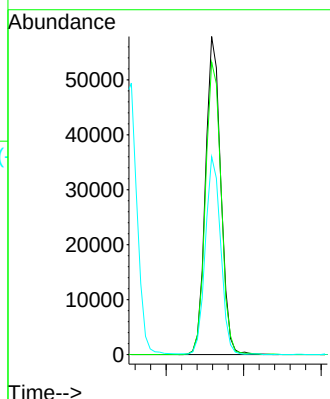
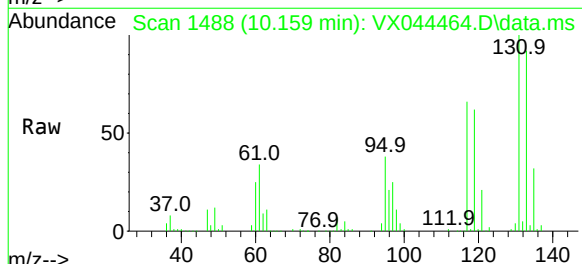
Tgt Ion:131 Resp: 79060

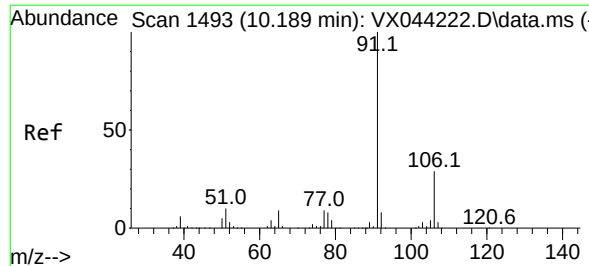
Ion Ratio Lower Upper

131 100

133 94.3 47.3 141.8

119 62.0 31.6 95.0





#67

Ethyl Benzene

Concen: 50.462 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 91 Resp: 385756

Ion Ratio Lower Upper

91 100

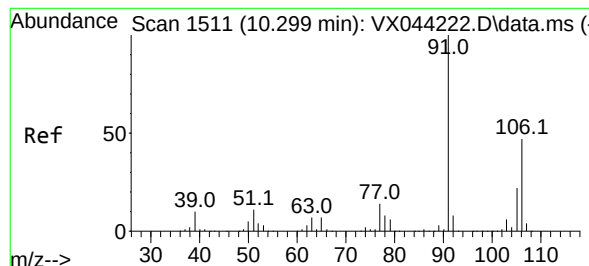
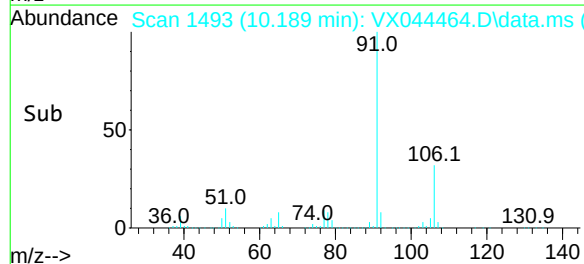
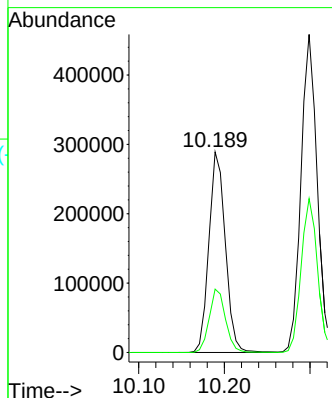
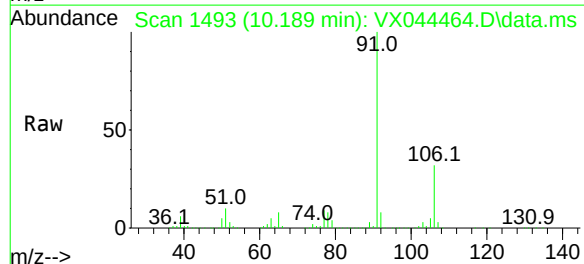
106 31.6 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#68

m/p-Xylenes

Concen: 105.028 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX044464.D

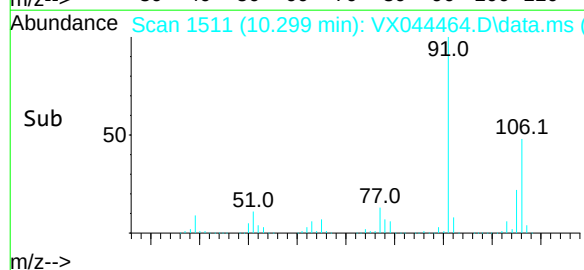
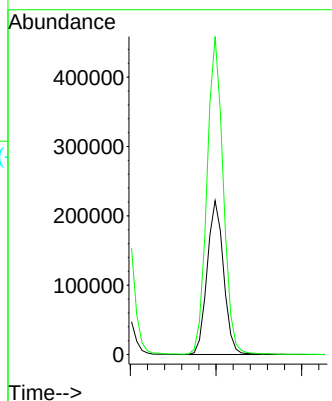
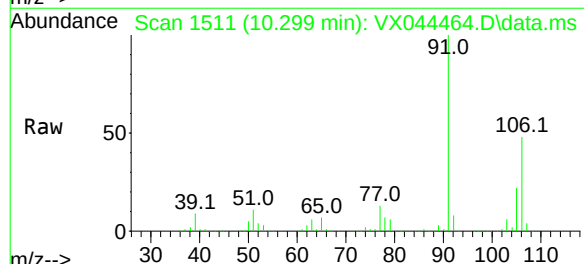
Acq: 20 Dec 2024 19:49

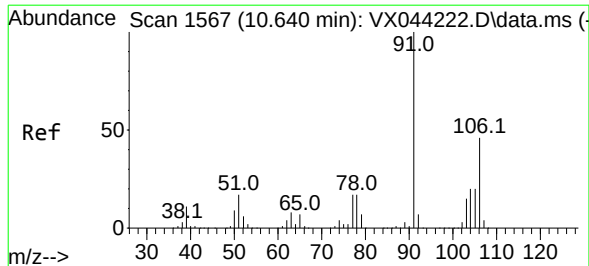
Tgt Ion:106 Resp: 294612

Ion Ratio Lower Upper

106 100

91 205.2 170.2 255.2





#69

o-Xylene

Concen: 51.494 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Tgt Ion:106 Resp: 146149

Ion Ratio Lower Upper

106 100

91 213.9 112.3 337.0

Instrument :

MSVOA_X

ClientSampleId :

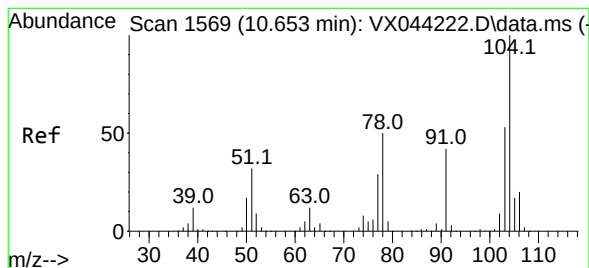
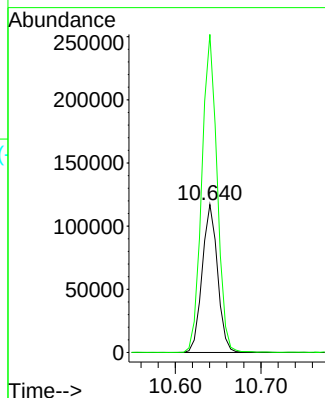
VSTDCCC050EC

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#70

Styrene

Concen: 52.761 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

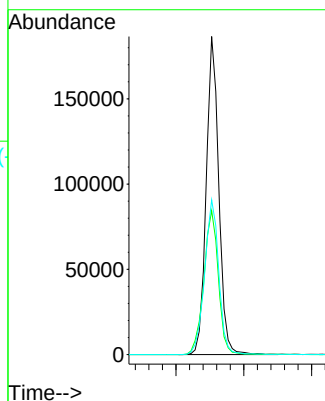
Tgt Ion:104 Resp: 240058

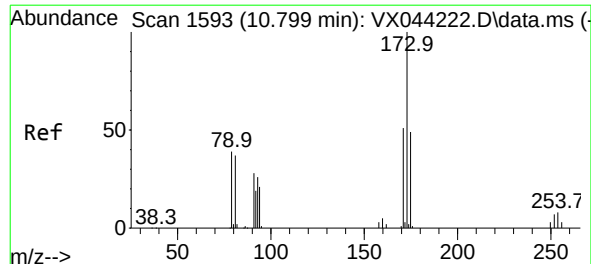
Ion Ratio Lower Upper

104 100

78 52.3 44.6 67.0

103 55.0 45.4 68.0





#71

Bromoform

Concen: 51.900 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion:173 Resp: 51823

Ion Ratio Lower Upper

173 100

175 48.4 23.8 71.4

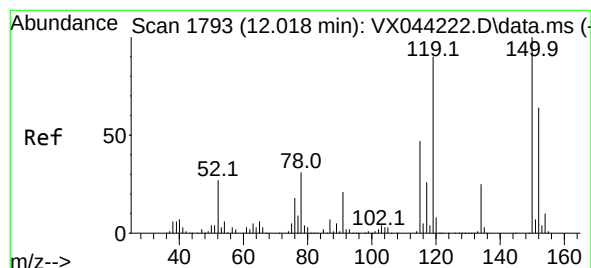
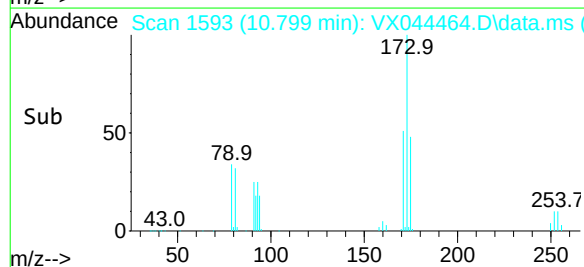
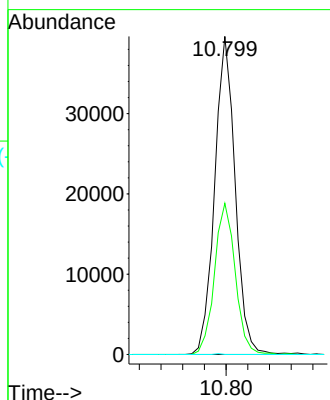
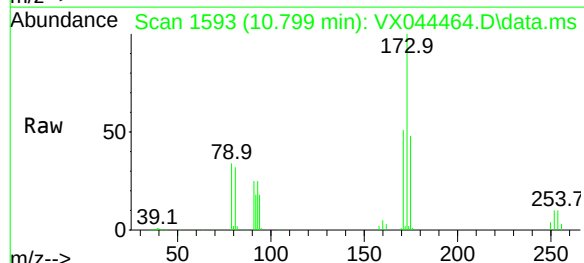
254 0.1 0.0 0.0#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

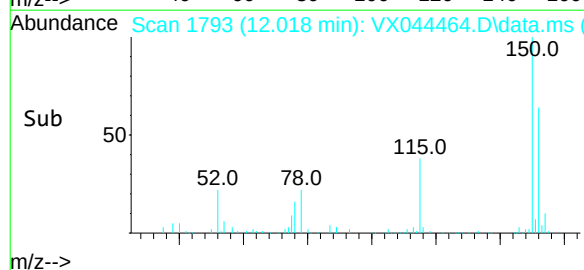
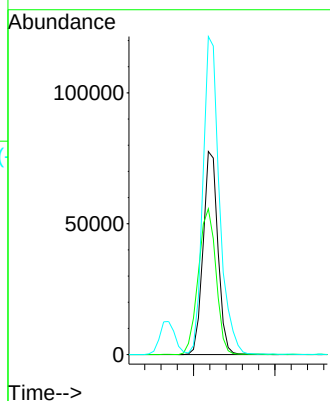
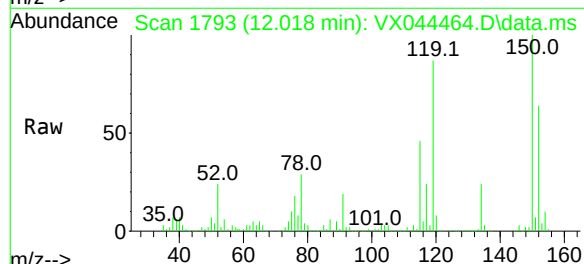
Tgt Ion:152 Resp: 97831

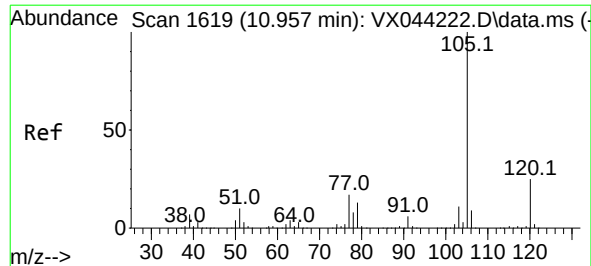
Ion Ratio Lower Upper

152 100

115 86.4 44.5 133.3

150 174.4 0.0 353.8





#73

Isopropylbenzene

Concen: 50.011 ug/l

RT: 10.957 min Scan# 1619

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Tgt Ion: 105 Resp: 374548

Ion Ratio Lower Upper

105 100

120 26.0 13.1 39.3

Instrument :

MSVOA_X

ClientSampleId :

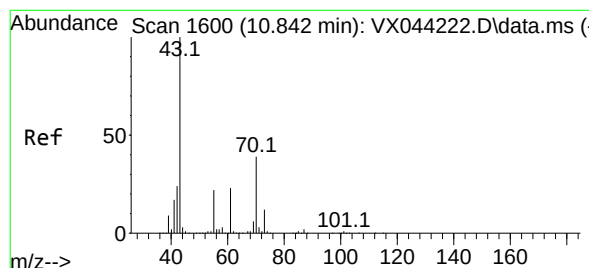
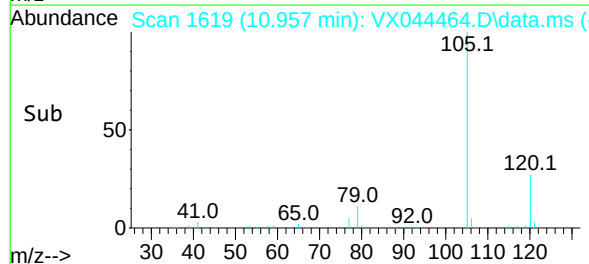
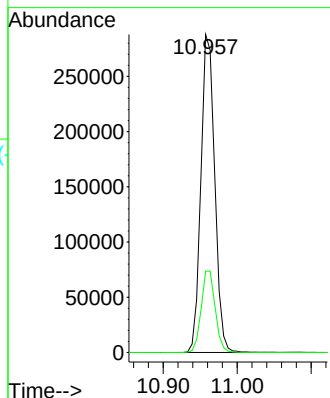
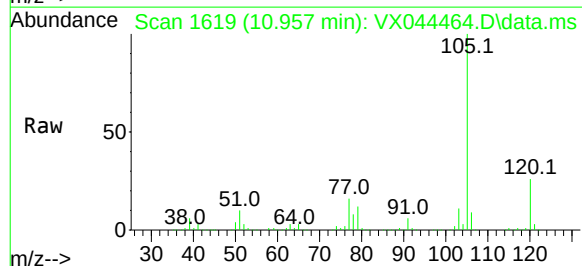
VSTDCCC050EC

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#74

N-ethyl acetate

Concen: 48.576 ug/l

RT: 10.842 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 168135

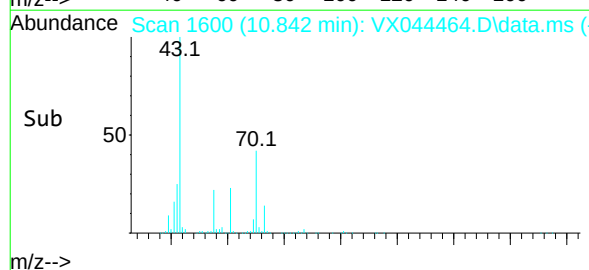
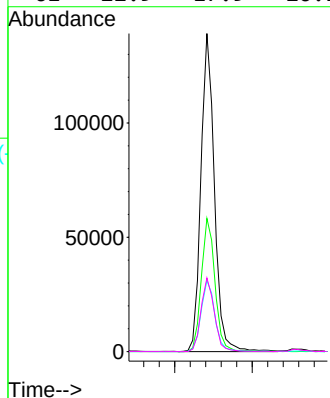
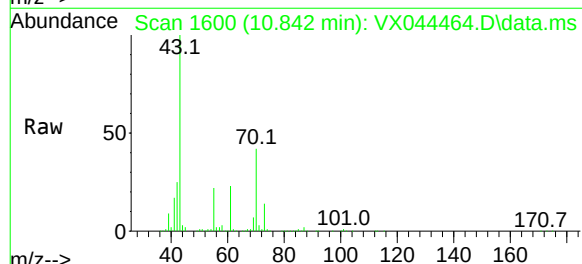
Ion Ratio Lower Upper

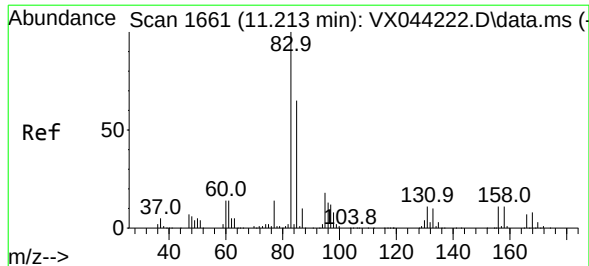
43 100

70 42.4 31.9 47.9

55 22.9 17.9 26.9

61 22.9 17.9 26.9





#75

1,1,2,2-Tetrachloroethane

Concen: 48.065 ug/l

RT: 11.207 min Scan# 1660

Delta R.T. -0.006 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

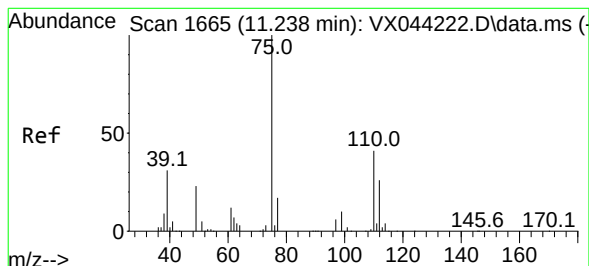
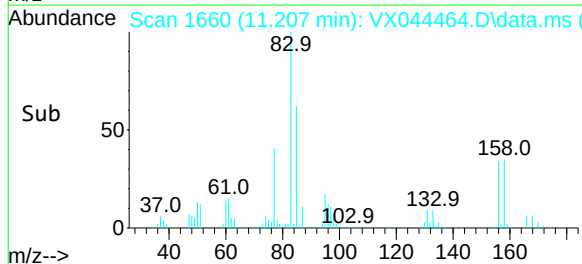
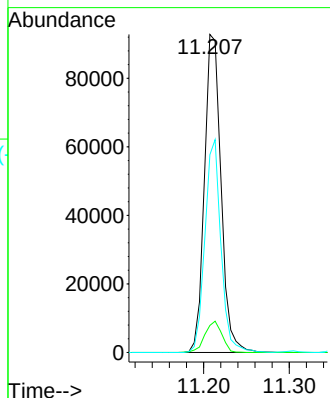
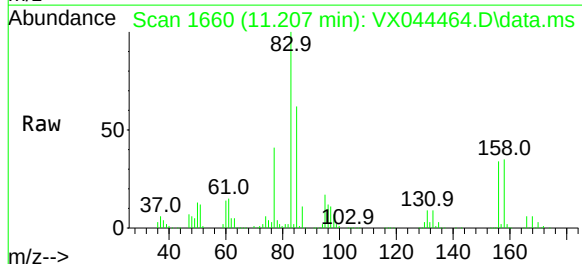
VSTDCCC050EC

Tgt Ion:	83	Resp:	125030
Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	64.6	32.5	97.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#76

1,2,3-Trichloropropane

Concen: 46.709 ug/l m

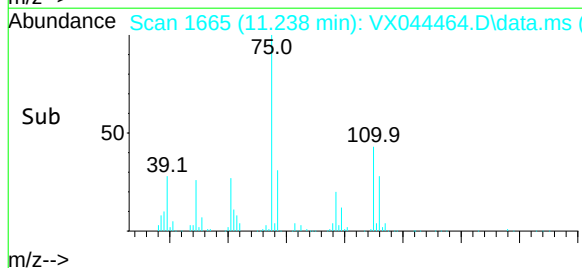
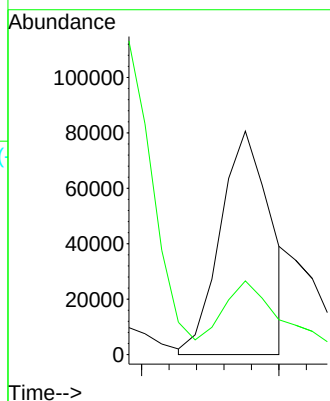
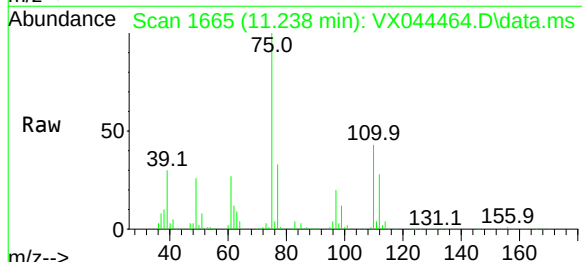
RT: 11.238 min Scan# 1665

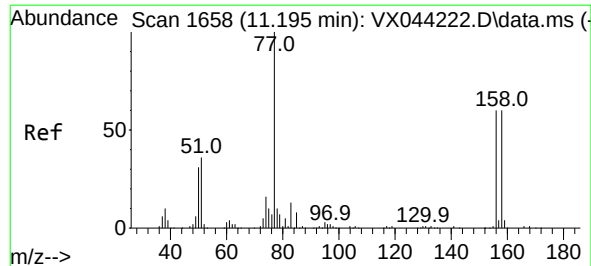
Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Tgt Ion:	75	Resp:	102028
Ion	Ratio	Lower	Upper
75	100		
77	40.9	20.9	62.7





#77

Bromobenzene

Concen: 51.903 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion:156 Resp: 94262

Ion Ratio Lower Upper

156 100

77 153.3 82.6 247.8

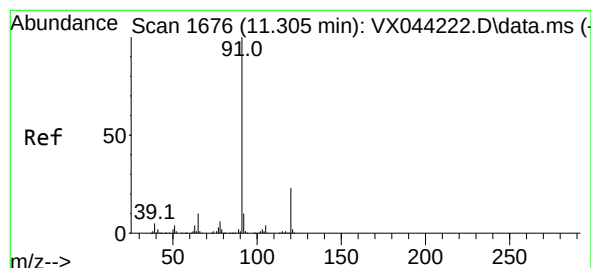
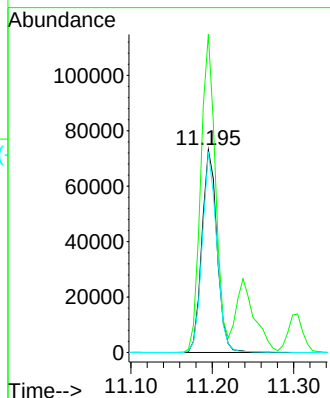
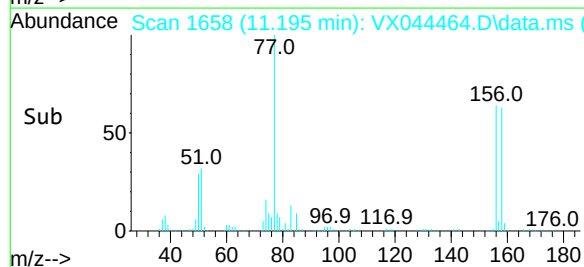
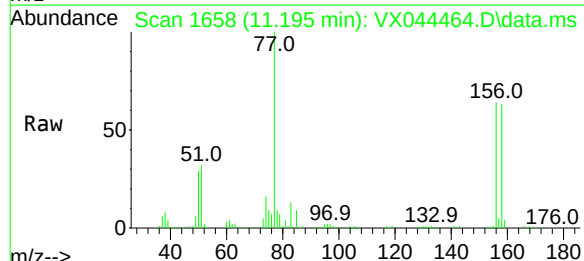
158 95.8 48.8 146.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#78

n-propylbenzene

Concen: 50.432 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. -0.000 min

Lab File: VX044464.D

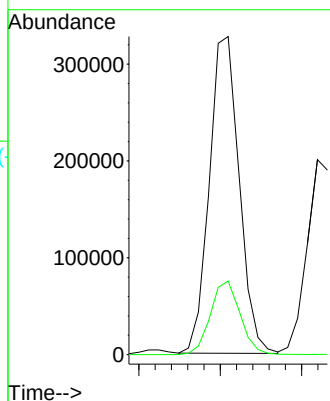
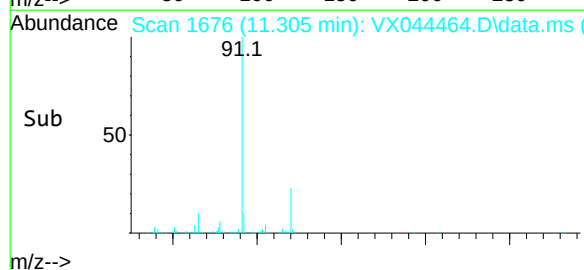
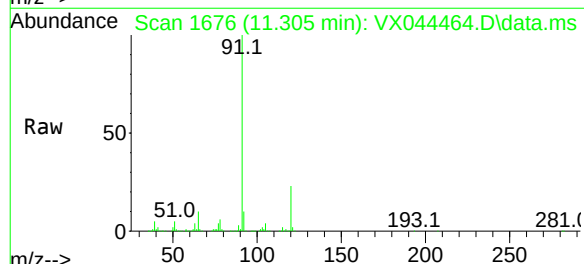
Acq: 20 Dec 2024 19:49

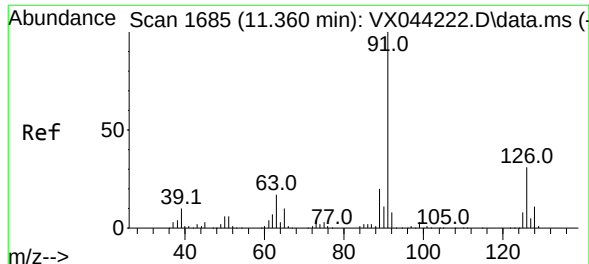
Tgt Ion: 91 Resp: 417465

Ion Ratio Lower Upper

91 100

120 23.1 11.0 33.0





#79

2-Chlorotoluene

Concen: 47.285 ug/l

RT: 11.360 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDC050EC

Tgt Ion: 91 Resp: 253139

Ion Ratio Lower Upper

91 100

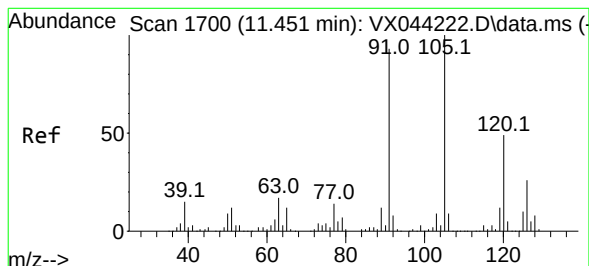
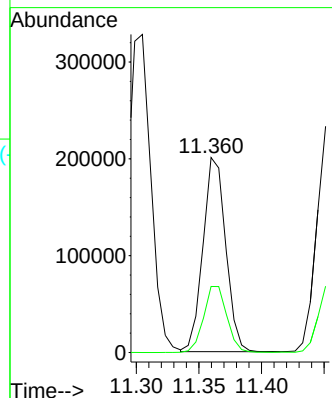
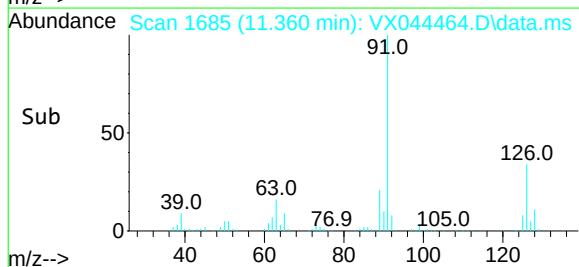
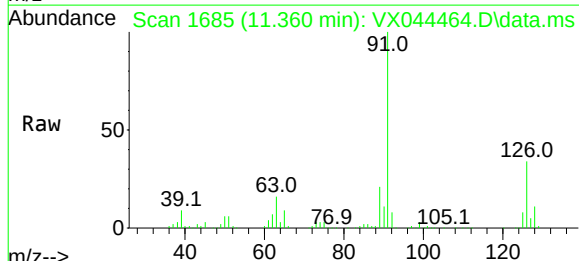
126 34.9 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#80

1,3,5-Trimethylbenzene

Concen: 49.787 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX044464.D

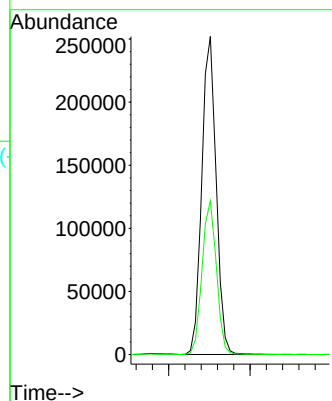
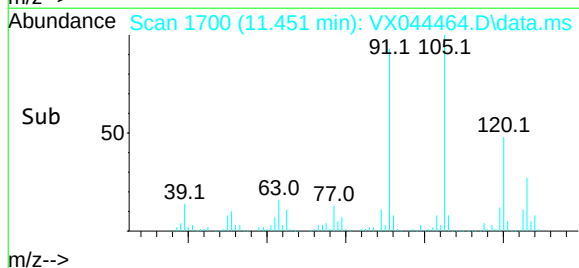
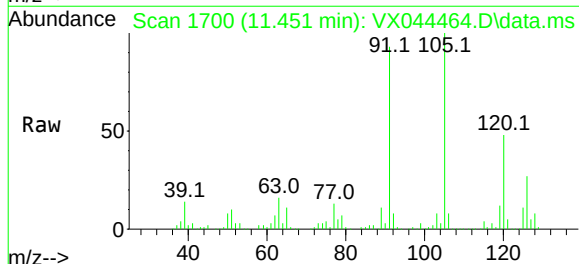
Acq: 20 Dec 2024 19:49

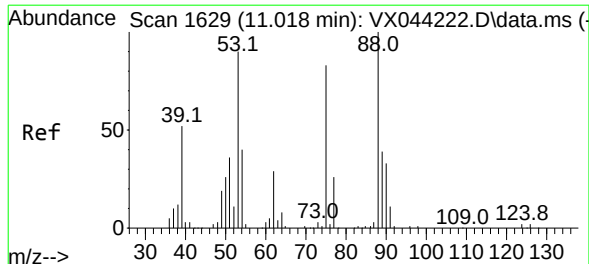
Tgt Ion:105 Resp: 309218

Ion Ratio Lower Upper

105 100

120 48.4 23.8 71.4





#81

trans-1,4-Dichloro-2-butene

Concen: 43.348 ug/l

RT: 11.018 min Scan# 1629

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

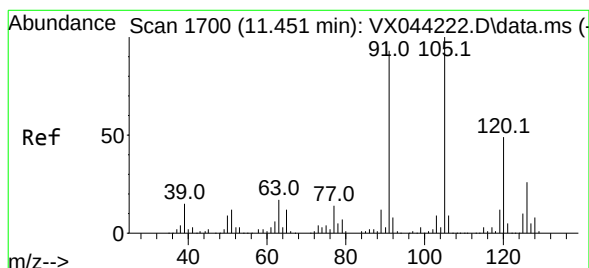
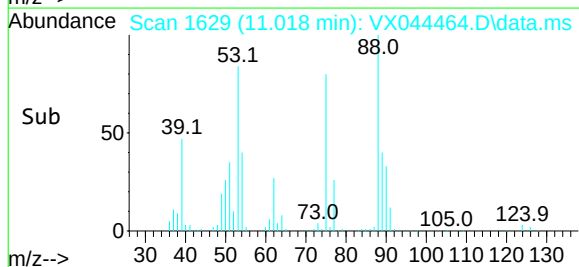
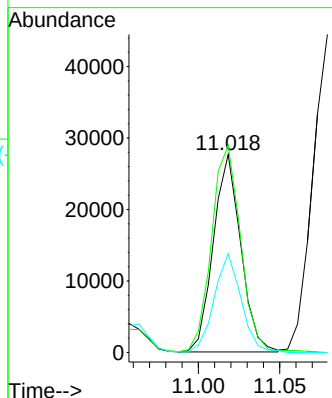
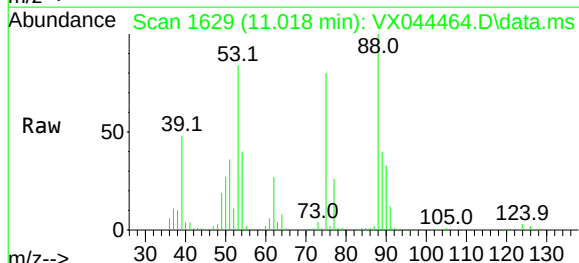
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	75	Resp:	32407
Ion	Ratio	Lower	Upper
75	100		
53	111.6	93.6	140.4
89	49.1	37.3	55.9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#82

4-Chlorotoluene

Concen: 48.802 ug/l

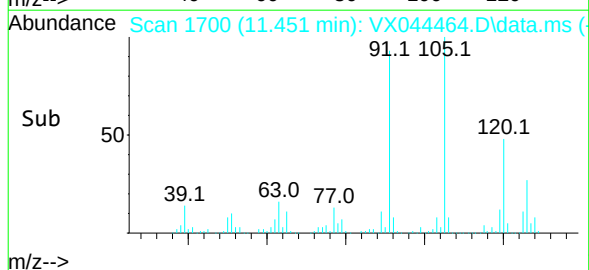
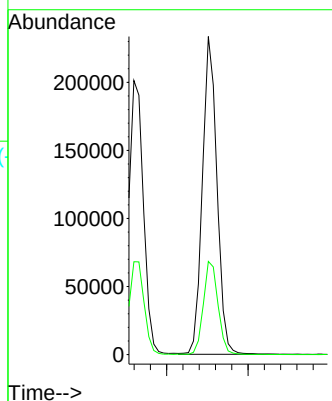
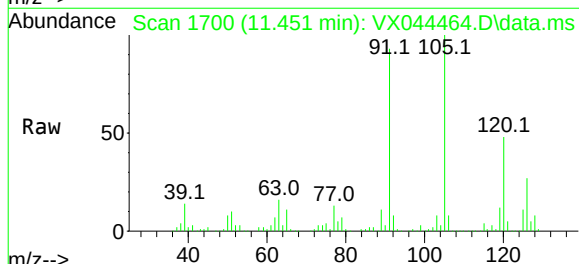
RT: 11.451 min Scan# 1700

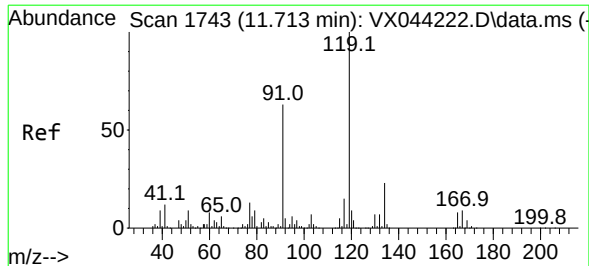
Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Tgt Ion:	91	Resp:	289306
Ion	Ratio	Lower	Upper
91	100		
126	29.8	14.5	43.5





#83

tert-Butylbenzene

Concen: 50.950 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion:119 Resp: 312731

Ion Ratio Lower Upper

119 100

91 59.8 30.9 92.5

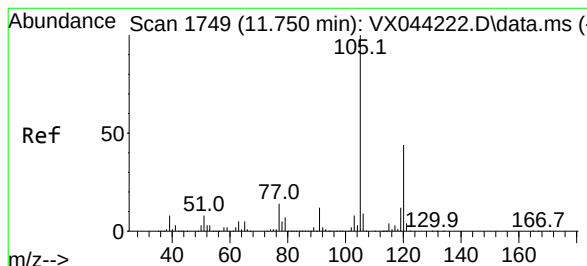
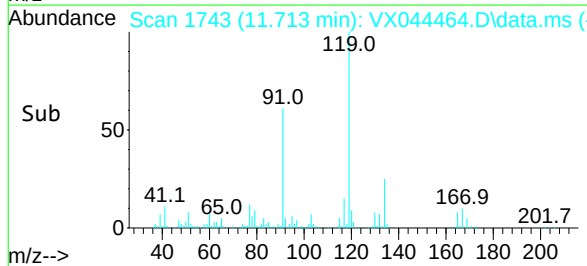
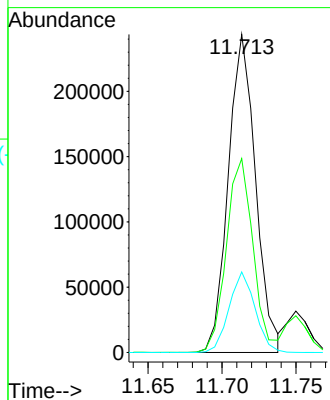
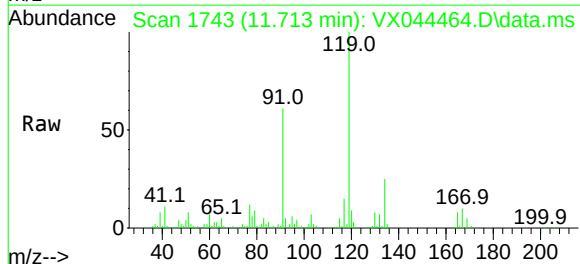
134 24.1 11.5 34.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#84

1,2,4-Trimethylbenzene

Concen: 50.564 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX044464.D

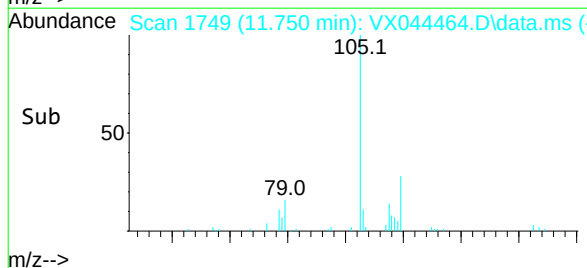
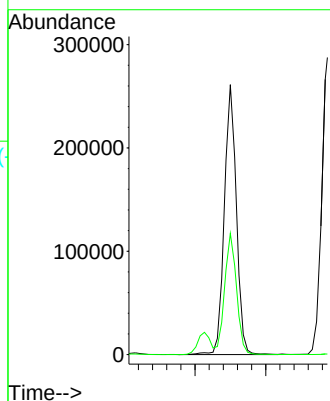
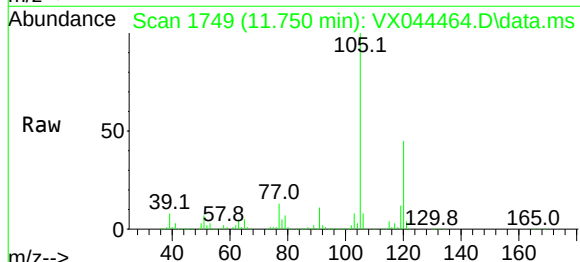
Acq: 20 Dec 2024 19:49

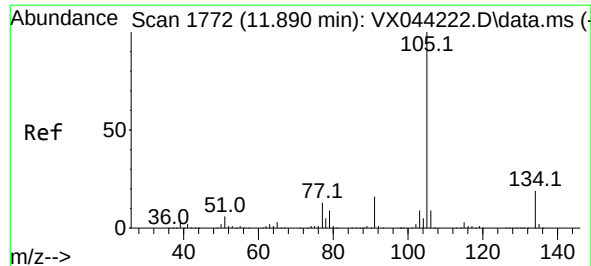
Tgt Ion:105 Resp: 308415

Ion Ratio Lower Upper

105 100

120 44.6 21.7 65.1





#85

sec-Butylbenzene

Concen: 50.546 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion:105 Resp: 376639

Ion Ratio Lower Upper

105 100

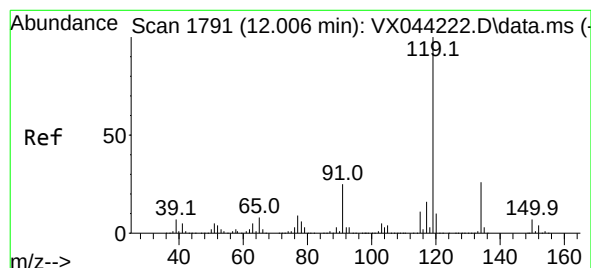
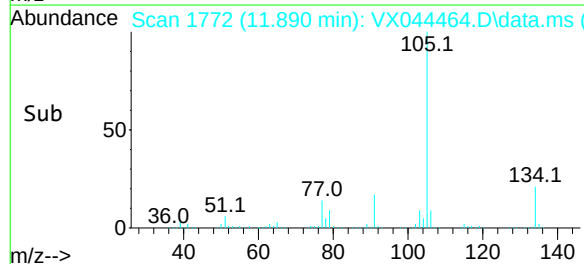
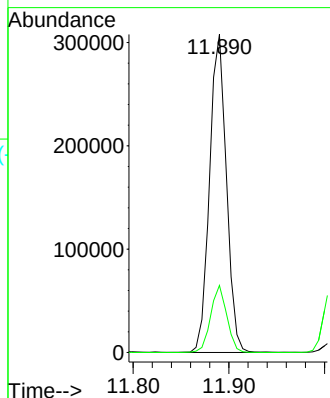
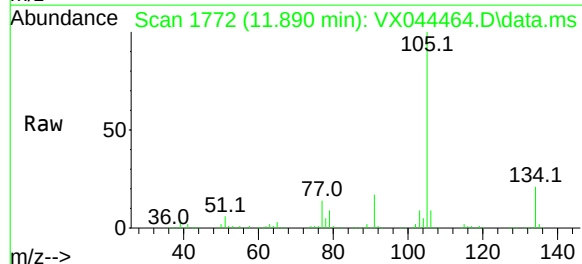
134 20.2 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#86

p-Isopropyltoluene

Concen: 51.504 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

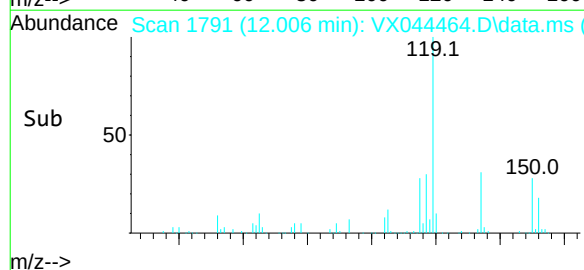
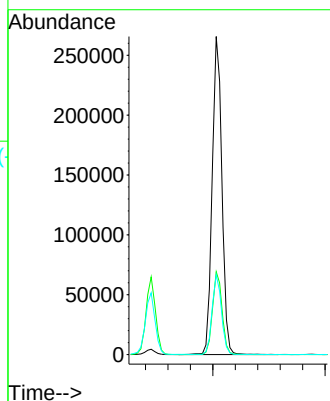
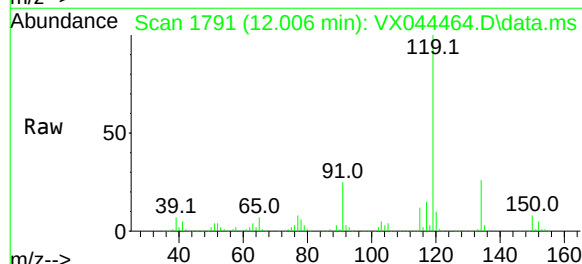
Tgt Ion:119 Resp: 319422

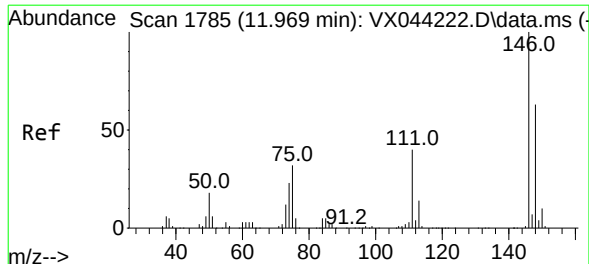
Ion Ratio Lower Upper

119 100

134 25.6 12.8 38.4

91 24.1 13.0 39.0





#87

1,3-Dichlorobenzene

Concen: 51.480 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDC050EC

Tgt Ion:146 Resp: 163311

Ion Ratio Lower Upper

146 100

111 40.9 21.4 64.2

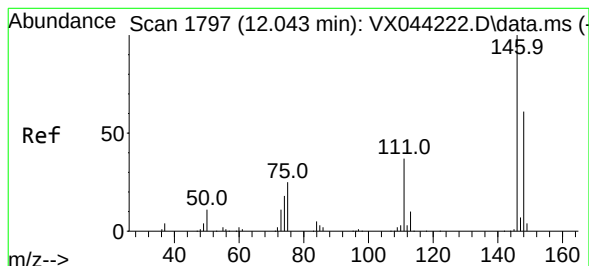
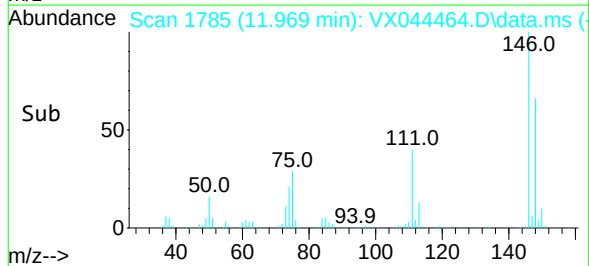
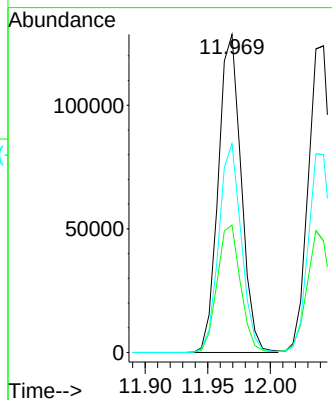
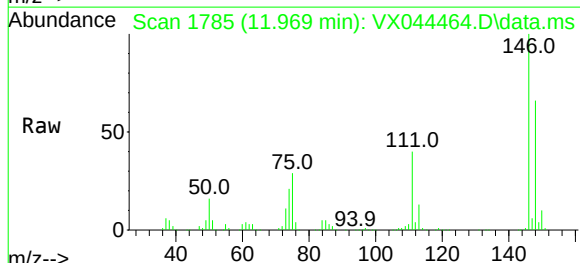
148 64.7 31.7 95.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#88

1,4-Dichlorobenzene

Concen: 49.579 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

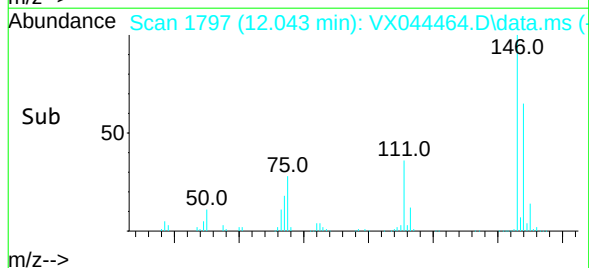
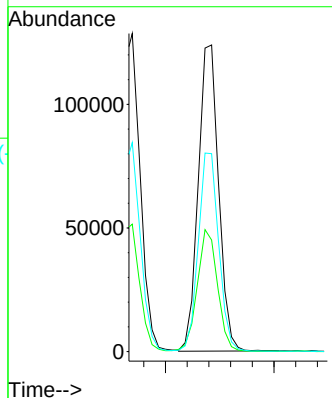
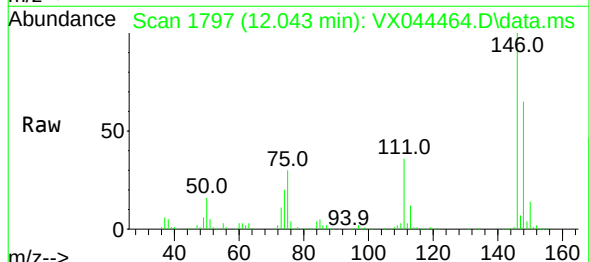
Tgt Ion:146 Resp: 161681

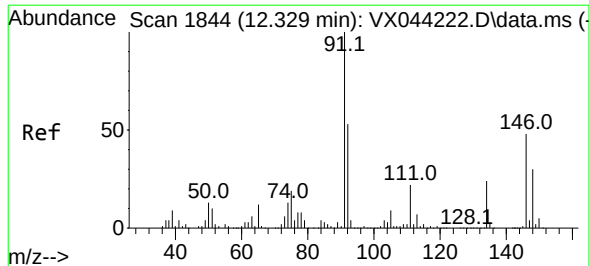
Ion Ratio Lower Upper

146 100

111 39.8 21.0 63.0

148 65.1 32.3 96.8





#89

n-Butylbenzene

Concen: 50.212 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 91 Resp: 261866

Ion Ratio Lower Upper

91 100

92 52.2 26.6 79.7

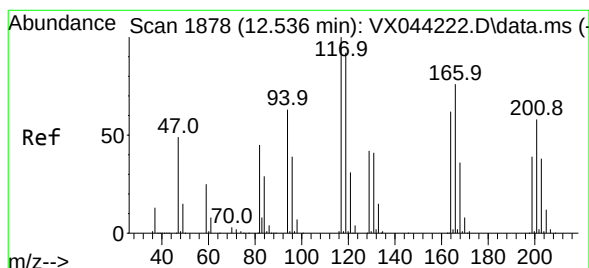
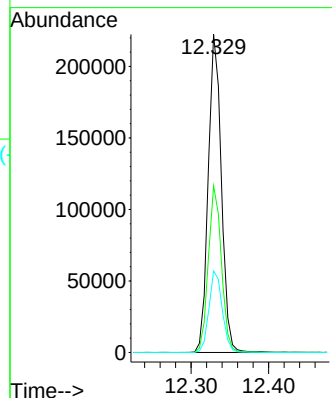
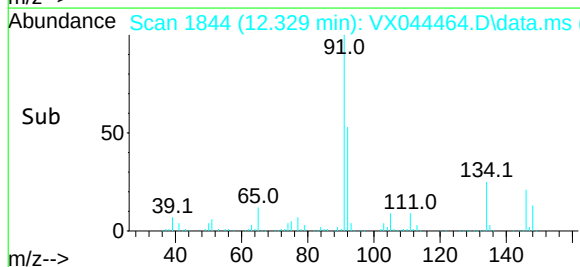
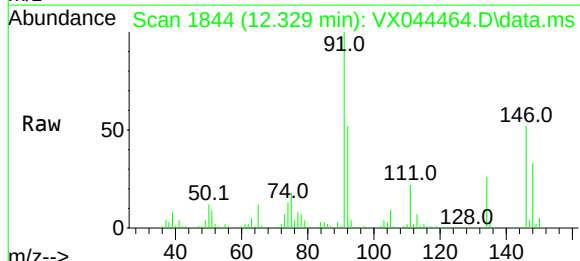
134 26.0 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#90

Hexachloroethane

Concen: 52.940 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX044464.D

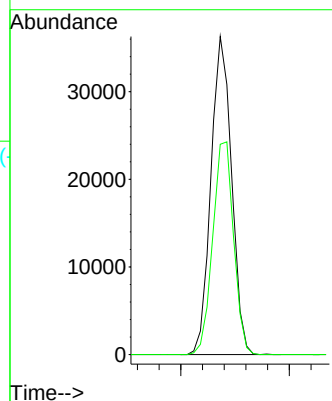
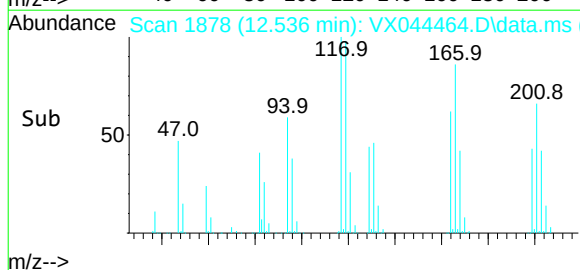
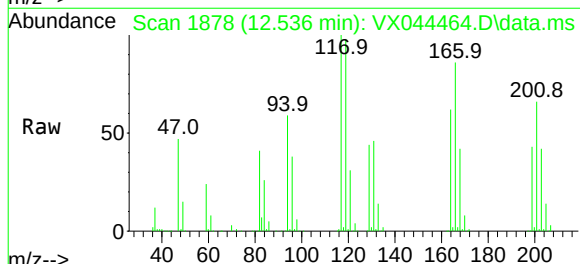
Acq: 20 Dec 2024 19:49

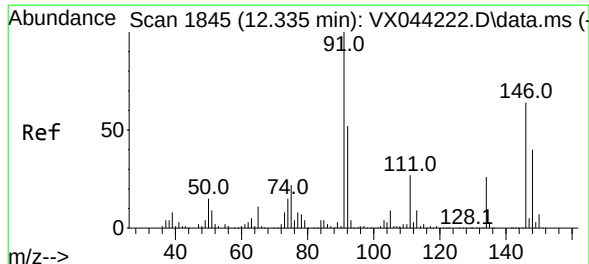
Tgt Ion:117 Resp: 47928

Ion Ratio Lower Upper

117 100

201 67.8 31.4 94.2





#91

1,2-Dichlorobenzene

Concen: 50.764 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. -0.000 min

Lab File: VX044464.D

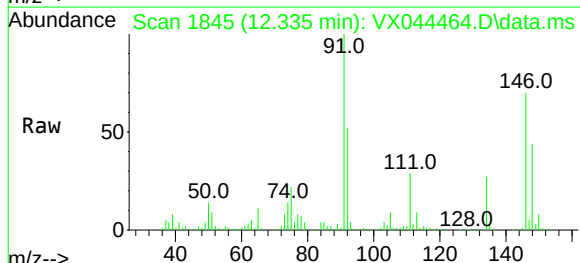
Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC



Tgt Ion: 146 Resp: 167214

Ion Ratio Lower Upper

146 100

111 41.4 21.4 64.3

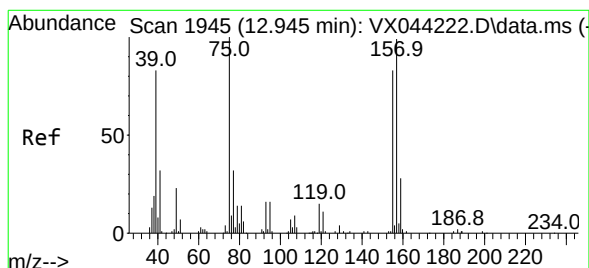
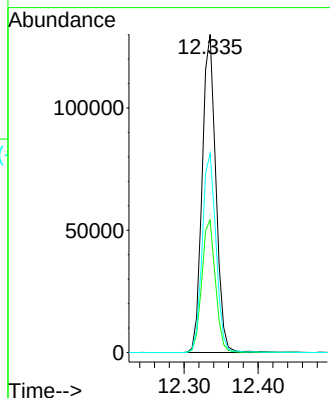
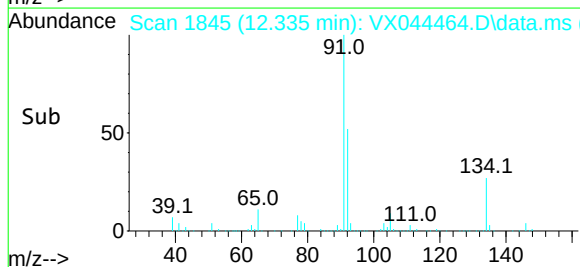
148 63.1 31.6 95.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#92

1,2-Dibromo-3-Chloropropane

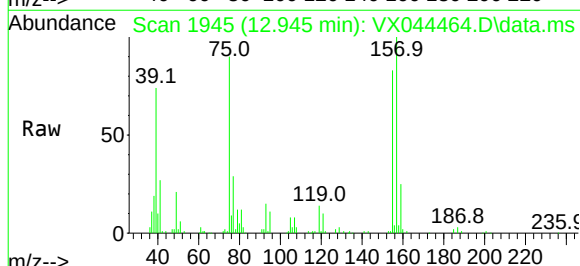
Concen: 46.042 ug/l

RT: 12.945 min Scan# 1945

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49



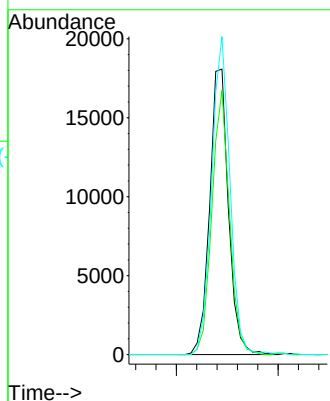
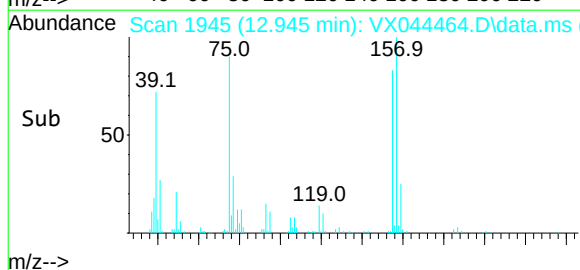
Tgt Ion: 75 Resp: 23250

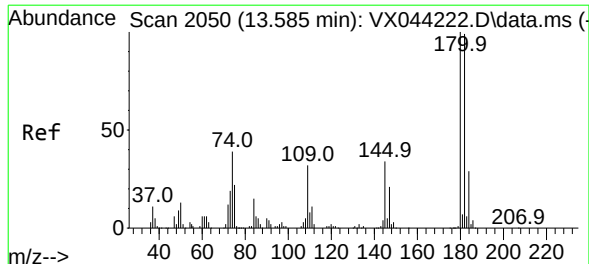
Ion Ratio Lower Upper

75 100

155 86.4 38.1 114.3

157 107.8 47.2 141.6





#93

1,2,4-Trichlorobenzene

Concen: 54.188 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

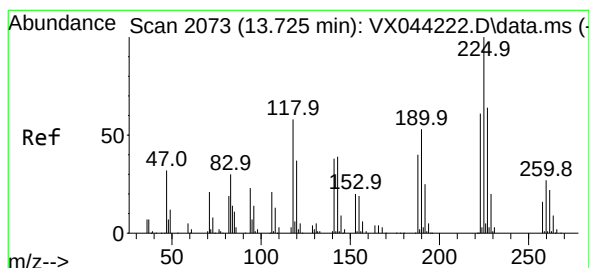
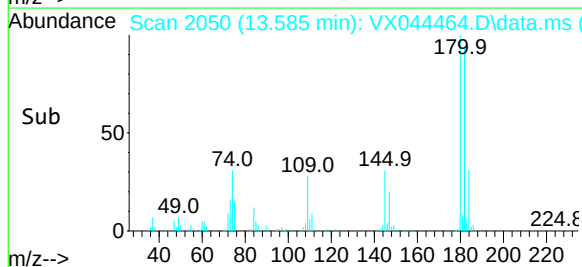
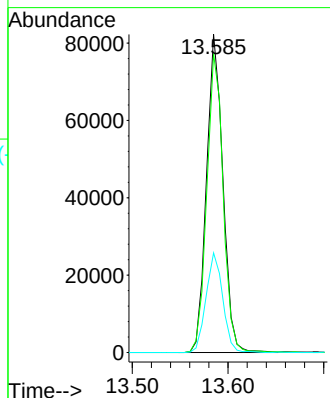
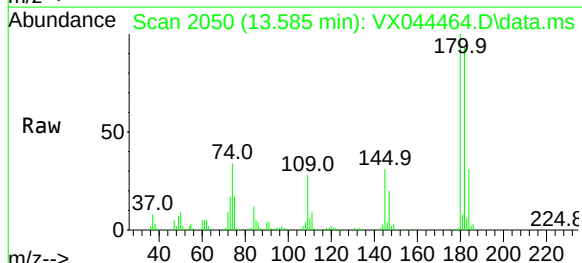
ClientSampleId :

VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.8	48.0	144.2
145	31.9	16.6	49.7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#94

Hexachlorobutadiene

Concen: 55.763 ug/l

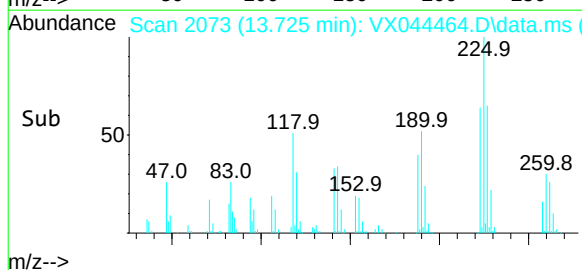
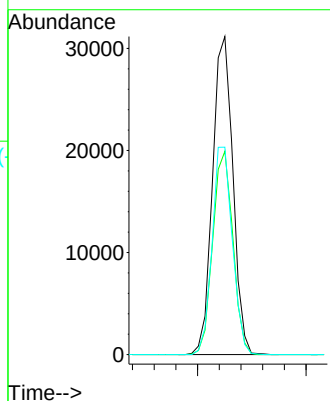
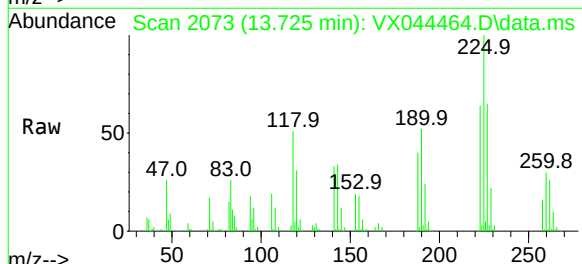
RT: 13.725 min Scan# 2073

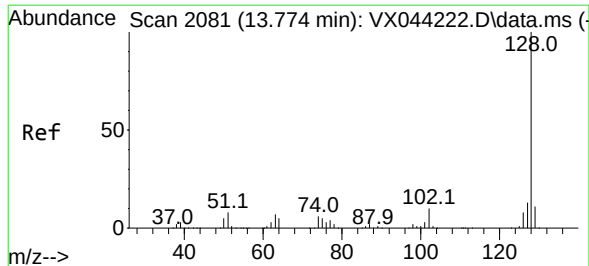
Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.3	30.8	92.4
227	65.0	32.1	96.3





#95

Naphthalene

Concen: 48.680 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

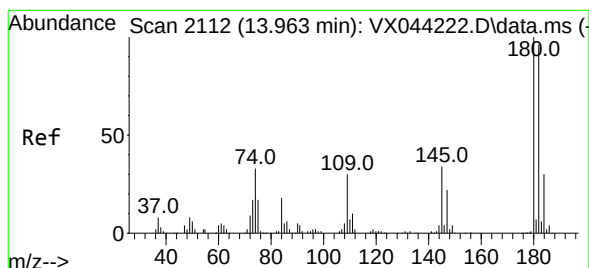
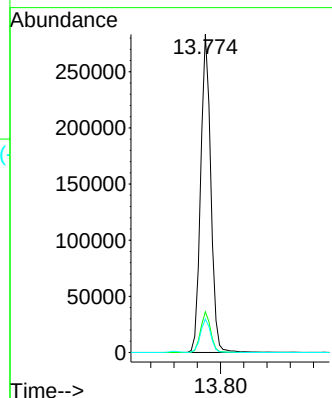
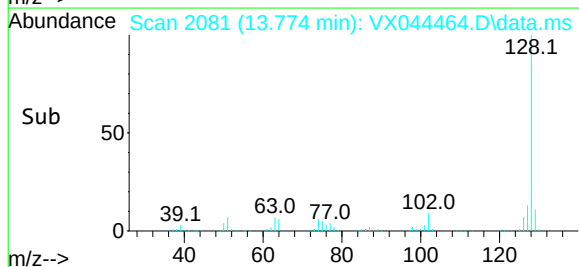
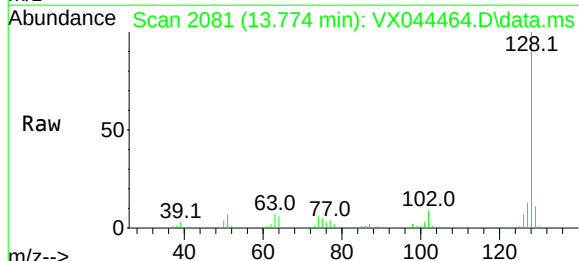
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	128	Resp:	343151
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	10.7	9.0	13.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#96

1,2,3-Trichlorobenzene

Concen: 52.939 ug/l

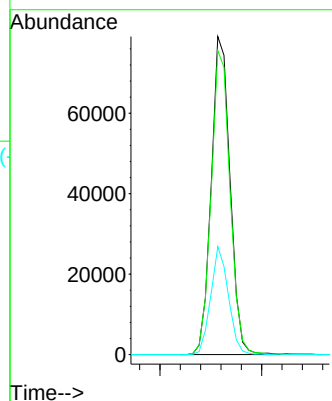
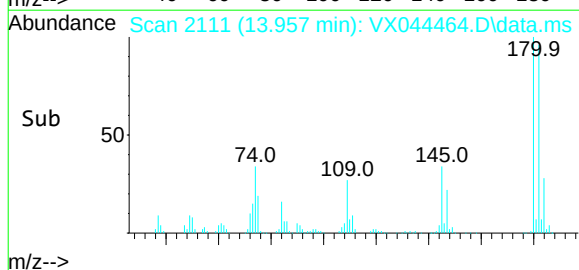
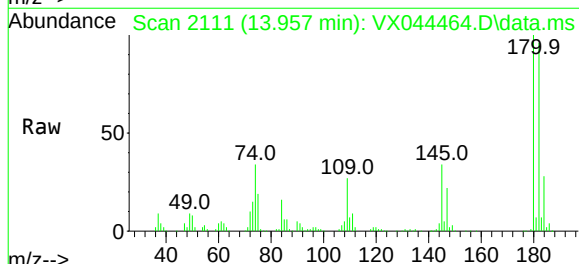
RT: 13.957 min Scan# 2111

Delta R.T. -0.006 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Tgt Ion:	180	Resp:	101400
Ion	Ratio	Lower	Upper
180	100		
182	96.2	48.0	144.0
145	31.9	17.7	53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	112	0.00
2 T	Dichlorodifluoromethane	0.773	0.744	3.8	105	0.00
3 P	Chloromethane	0.739	0.696	5.8	103	0.00
4 C	Vinyl Chloride	0.770	0.730	5.2#	104	0.00
5 T	Bromomethane	0.546	0.498	8.8	101	0.00
6 T	Chloroethane	0.480	0.507	-5.6	106	0.00
7 T	Trichlorofluoromethane	1.508	1.202	20.3	87	0.00
8 T	Diethyl Ether	0.515	0.439	14.8	96	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.610	0.590	3.3	107	0.00
10 T	Methyl Iodide	0.804	0.807	-0.4	106	0.00
11 T	Tert butyl alcohol	0.124	0.102	17.7	94	0.00
12 CM	1,1-Dichloroethene	0.560	0.560	0.0	105	0.00
13 T	Acrolein	0.179	0.159	11.2	96	0.00
14 T	Allyl chloride	0.933	0.888	4.8	98	0.00
15 T	Acrylonitrile	0.342	0.310	9.4	96	0.00
16 T	Acetone	0.357	0.270	24.4	79	0.00
17 T	Carbon Disulfide	1.065	1.089	-2.3	106	0.00
18 T	Methyl Acetate	0.922	0.860	6.7	101	0.00
19 T	Methyl tert-butyl Ether	2.187	1.972	9.8	95	0.00
20 T	Methylene Chloride	0.671	0.636	5.2	103	0.00
21 T	trans-1,2-Dichloroethene	0.596	0.578	3.0	104	0.00
22 T	Diisopropyl ether	2.102	1.893	9.9	97	0.00
23 T	Vinyl Acetate	1.709	1.665	2.6	97	0.00
24 P	1,1-Dichloroethane	1.172	1.125	4.0	101	0.00
25 T	2-Butanone	0.508	0.433	14.8	88	0.00
26 T	2,2-Dichloropropane	0.952	0.828	13.0	88	0.00
27 T	cis-1,2-Dichloroethene	0.756	0.719	4.9	104	0.00
28 T	Bromochloromethane	0.575	0.510	11.3	96	0.00
29 T	Tetrahydrofuran	0.326	0.277	15.0	92	0.00
30 C	Chloroform	1.316	1.190	9.6#	99	0.00
31 T	Cyclohexane	0.946	0.871	7.9	99	0.00
32 T	1,1,1-Trichloroethane	1.093	1.029	5.9	98	0.00
33 S	1,2-Dichloroethane-d4	0.877	0.778	11.3	94	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
35 S	Dibromofluoromethane	0.346	0.363	-4.9	101	0.00
36 T	1,1-Dichloropropene	0.448	0.439	2.0	101	0.00
37 T	Ethyl Acetate	0.553	0.533	3.6	94	0.00
38 T	Carbon Tetrachloride	0.482	0.495	-2.7	101	0.00
39 T	Methylcyclohexane	0.535	0.550	-2.8	101	0.00
40 TM	Benzene	1.359	1.393	-2.5	101	0.00
41 T	Methacrylonitrile	0.294	0.279	5.1	95	0.00
42 TM	1,2-Dichloroethane	0.560	0.534	4.6	94	0.00
43 T	Isopropyl Acetate	0.865	0.831	3.9	93	0.00
44 TM	Trichloroethene	0.339	0.360	-6.2	105	0.00
45 C	1,2-Dichloropropane	0.347	0.345	0.6#	99	0.00
46 T	Dibromomethane	0.269	0.276	-2.6	99	0.00
47 T	Bromodichloromethane	0.465	0.491	-5.6	99	0.00
48 T	Methyl methacrylate	0.420	0.396	5.7	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	0.007	0.007	0.0	95	-0.01
50 S	Toluene-d8	1.168	1.213	-3.9	99	0.00
51 T	4-Methyl-2-Pentanone	0.556	0.524	5.8	91	0.00
52 CM	Toluene	0.853	0.855	-0.2#	100	0.00
53 T	t-1,3-Dichloropropene	0.455	0.482	-5.9	96	0.00
54 T	cis-1,3-Dichloropropene	0.507	0.531	-4.7	96	0.00
55 T	1,1,2-Trichloroethane	0.339	0.345	-1.8	99	0.00
56 T	Ethyl methacrylate	0.535	0.551	-3.0	98	0.00
57 T	1,3-Dichloropropane	0.590	0.588	0.3	98	0.00
58 T	2-Chloroethyl Vinyl ether	0.270	0.263	2.6	92	0.00
59 T	2-Hexanone	0.403	0.381	5.5	89	0.00
60 T	Dibromochloromethane	0.326	0.361	-10.7	100	0.00
61 T	1,2-Dibromoethane	0.345	0.366	-6.1	102	0.00
62 S	4-Bromofluorobenzene	0.408	0.418	-2.5	97	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
64 T	Tetrachloroethene	0.332	0.343	-3.3	108	0.00
65 PM	Chlorobenzene	1.071	1.094	-2.1	101	0.00
66 T	1,1,1,2-Tetrachloroethane	0.344	0.383	-11.3	103	0.00
67 C	Ethyl Benzene	1.851	1.868	-0.9#	98	0.00
68 T	m/p-Xylenes	0.679	0.713	-5.0	102	0.00
69 T	o-Xylene	0.687	0.708	-3.1	101	0.00
70 T	Styrene	1.102	1.163	-5.5	101	0.00
71 P	Bromoform	0.219	0.251	-14.6	102	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73 T	Isopropylbenzene	3.828	3.829	-0.0	101	0.00
74 T	N-amyl acetate	1.769	1.719	2.8	92	0.00
75 P	1,1,2,2-Tetrachloroethane	1.329	1.278	3.8	98	0.00
76 T	1,2,3-Trichloropropane	1.116	1.043	6.5	95	0.00
77 T	Bromobenzene	0.928	0.964	-3.9	105	0.00
78 T	n-propylbenzene	4.231	4.267	-0.9	97	0.00
79 T	2-Chlorotoluene	2.736	2.588	5.4	96	0.00
80 T	1,3,5-Trimethylbenzene	3.174	3.161	0.4	98	0.00
81 T	trans-1,4-Dichloro-2-butene	0.347	0.331	4.6	92	0.00
82 T	4-Chlorotoluene	3.030	2.957	2.4	98	0.00
83 T	tert-Butylbenzene	3.137	3.197	-1.9	101	0.00
84 T	1,2,4-Trimethylbenzene	3.117	3.153	-1.2	98	0.00
85 T	sec-Butylbenzene	3.808	3.850	-1.1	99	0.00
86 T	p-Isopropyltoluene	3.170	3.265	-3.0	100	0.00
87 T	1,3-Dichlorobenzene	1.621	1.669	-3.0	102	0.00
88 T	1,4-Dichlorobenzene	1.667	1.653	0.8	102	0.00
89 T	n-Butylbenzene	2.665	2.677	-0.5	97	0.00
90 T	Hexachloroethane	0.463	0.490	-5.8	99	0.00
91 T	1,2-Dichlorobenzene	1.683	1.709	-1.5	102	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.258	0.238	7.8	89	0.00
93 T	1,2,4-Trichlorobenzene	0.923	1.000	-8.3	105	0.00
94 T	Hexachlorobutadiene	0.371	0.414	-11.6	115	0.00
95 T	Naphthalene	3.603	3.508	2.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	0.979	1.036	-5.8	105	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 5

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	112	0.00
2 T	Dichlorodifluoromethane	50.000	48.084	3.8	105	0.00
3 P	Chloromethane	50.000	47.052	5.9	103	0.00
4 C	Vinyl Chloride	50.000	47.388	5.2#	104	0.00
5 T	Bromomethane	50.000	45.581	8.8	101	0.00
6 T	Chloroethane	50.000	52.848	-5.7	106	0.00
7 T	Trichlorofluoromethane	50.000	39.855	20.3	87	0.00
8 T	Diethyl Ether	50.000	42.687	14.6	96	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	48.311	3.4	107	0.00
10 T	Methyl Iodide	50.000	50.177	-0.4	106	0.00
11 T	Tert butyl alcohol	250.000	205.778	17.7	94	0.00
12 CM	1,1-Dichloroethene	50.000	50.001	-0.0#	105	0.00
13 T	Acrolein	250.000	222.774	10.9	96	0.00
14 T	Allyl chloride	50.000	47.541	4.9	98	0.00
15 T	Acrylonitrile	250.000	226.182	9.5	96	0.00
16 T	Acetone	250.000	188.692	24.5	79	0.00
17 T	Carbon Disulfide	50.000	51.130	-2.3	106	0.00
18 T	Methyl Acetate	50.000	46.678	6.6	101	0.00
19 T	Methyl tert-butyl Ether	50.000	45.089	9.8	95	0.00
20 T	Methylene Chloride	50.000	47.401	5.2	103	0.00
21 T	trans-1,2-Dichloroethene	50.000	48.517	3.0	104	0.00
22 T	Diisopropyl ether	50.000	45.018	10.0	97	0.00
23 T	Vinyl Acetate	250.000	243.510	2.6	97	0.00
24 P	1,1-Dichloroethane	50.000	48.018	4.0	101	0.00
25 T	2-Butanone	250.000	213.237	14.7	88	0.00
26 T	2,2-Dichloropropane	50.000	43.513	13.0	88	0.00
27 T	cis-1,2-Dichloroethene	50.000	47.511	5.0	104	0.00
28 T	Bromochloromethane	50.000	44.369	11.3	96	0.00
29 T	Tetrahydrofuran	250.000	212.557	15.0	92	0.00
30 C	Chloroform	50.000	45.189	9.6#	99	0.00
31 T	Cyclohexane	50.000	46.033	7.9	99	0.00
32 T	1,1,1-Trichloroethane	50.000	47.095	5.8	98	0.00
33 S	1,2-Dichloroethane-d4	50.000	44.357	11.3	94	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	102	0.00
35 S	Dibromofluoromethane	50.000	52.347	-4.7	101	0.00
36 T	1,1-Dichloropropene	50.000	49.017	2.0	101	0.00
37 T	Ethyl Acetate	50.000	48.180	3.6	94	0.00
38 T	Carbon Tetrachloride	50.000	51.365	-2.7	101	0.00
39 T	Methylcyclohexane	50.000	51.370	-2.7	101	0.00
40 TM	Benzene	50.000	51.262	-2.5	101	0.00
41 T	Methacrylonitrile	50.000	47.401	5.2	95	0.00
42 TM	1,2-Dichloroethane	50.000	47.680	4.6	94	0.00
43 T	Isopropyl Acetate	50.000	48.047	3.9	93	0.00
44 TM	Trichloroethene	50.000	53.083	-6.2	105	0.00
45 C	1,2-Dichloropropane	50.000	49.622	0.8#	99	0.00
46 T	Dibromomethane	50.000	51.184	-2.4	99	0.00
47 T	Bromodichloromethane	50.000	52.723	-5.4	99	0.00
48 T	Methyl methacrylate	50.000	47.115	5.8	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	1003.530	-0.4	95	-0.01
50 S	Toluene-d8	50.000	51.923	-3.8	99	0.00
51 T	4-Methyl-2-Pentanone	250.000	235.413	5.8	91	0.00
52 CM	Toluene	50.000	50.071	-0.1#	100	0.00
53 T	t-1,3-Dichloropropene	50.000	48.388	3.2	96	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.437	-4.9	96	0.00
55 T	1,1,2-Trichloroethane	50.000	50.814	-1.6	99	0.00
56 T	Ethyl methacrylate	50.000	51.516	-3.0	98	0.00
57 T	1,3-Dichloropropane	50.000	49.799	0.4	98	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	243.652	2.5	92	0.00
59 T	2-Hexanone	250.000	236.376	5.4	89	0.00
60 T	Dibromochloromethane	50.000	50.206	-0.4	100	0.00
61 T	1,2-Dibromoethane	50.000	53.053	-6.1	102	0.00
62 S	4-Bromofluorobenzene	50.000	51.161	-2.3	97	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	101	0.00
64 T	Tetrachloroethene	50.000	51.727	-3.5	108	0.00
65 PM	Chlorobenzene	50.000	51.056	-2.1	101	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	55.601	-11.2	103	0.00
67 C	Ethyl Benzene	50.000	50.462	-0.9#	98	0.00
68 T	m/p-Xylenes	100.000	105.028	-5.0	102	0.00
69 T	o-Xylene	50.000	51.494	-3.0	101	0.00
70 T	Styrene	50.000	52.761	-5.5	101	0.00
71 P	Bromoform	50.000	51.900	-3.8	102	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73 T	Isopropylbenzene	50.000	50.011	-0.0	101	0.00
74 T	N-amyl acetate	50.000	48.576	2.8	92	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	48.065	3.9	98	0.00
76 T	1,2,3-Trichloropropane	50.000	46.709	6.6	95	0.00
77 T	Bromobenzene	50.000	51.903	-3.8	105	0.00
78 T	n-propylbenzene	50.000	50.432	-0.9	97	0.00
79 T	2-Chlorotoluene	50.000	47.285	5.4	96	0.00
80 T	1,3,5-Trimethylbenzene	50.000	49.787	0.4	98	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	43.348	13.3	92	0.00
82 T	4-Chlorotoluene	50.000	48.802	2.4	98	0.00
83 T	tert-Butylbenzene	50.000	50.950	-1.9	101	0.00
84 T	1,2,4-Trimethylbenzene	50.000	50.564	-1.1	98	0.00
85 T	sec-Butylbenzene	50.000	50.546	-1.1	99	0.00
86 T	p-Isopropyltoluene	50.000	51.504	-3.0	100	0.00
87 T	1,3-Dichlorobenzene	50.000	51.480	-3.0	102	0.00
88 T	1,4-Dichlorobenzene	50.000	49.579	0.8	102	0.00
89 T	n-Butylbenzene	50.000	50.212	-0.4	97	0.00
90 T	Hexachloroethane	50.000	52.940	-5.9	99	0.00
91 T	1,2-Dichlorobenzene	50.000	50.764	-1.5	102	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	46.042	7.9	89	0.00
93 T	1,2,4-Trichlorobenzene	50.000	54.188	-8.4	105	0.00
94 T	Hexachlorobutadiene	50.000	55.763	-11.5	115	0.00
95 T	Naphthalene	50.000	48.680	2.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	52.939	-5.9	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



QC SAMPLE DATA

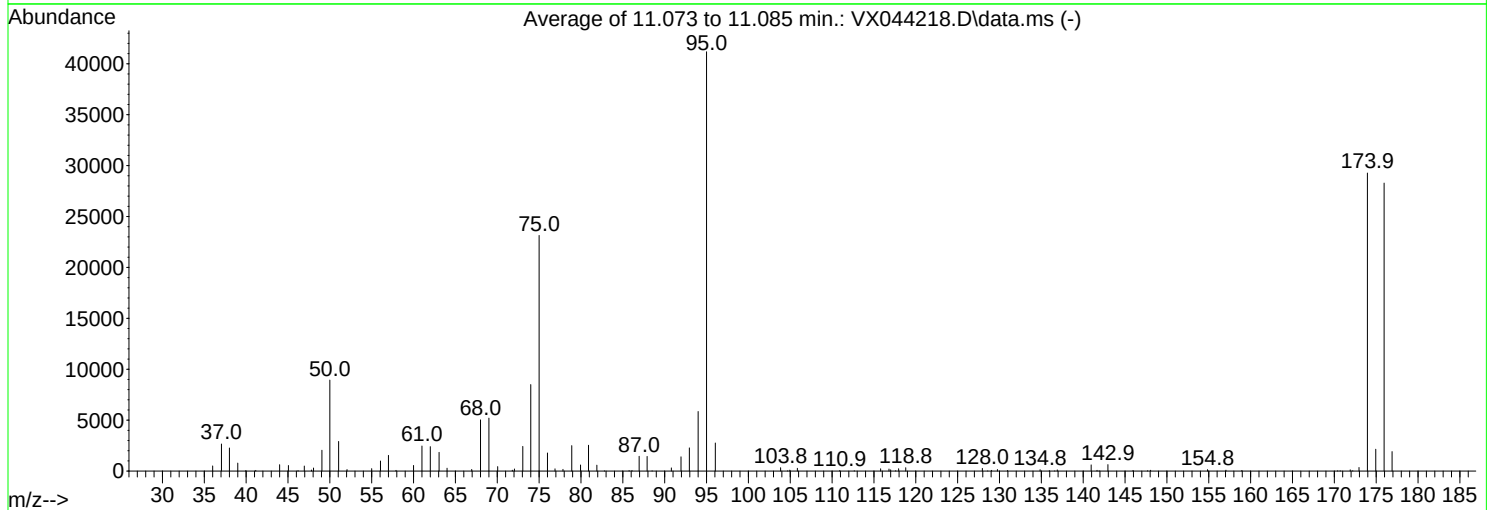
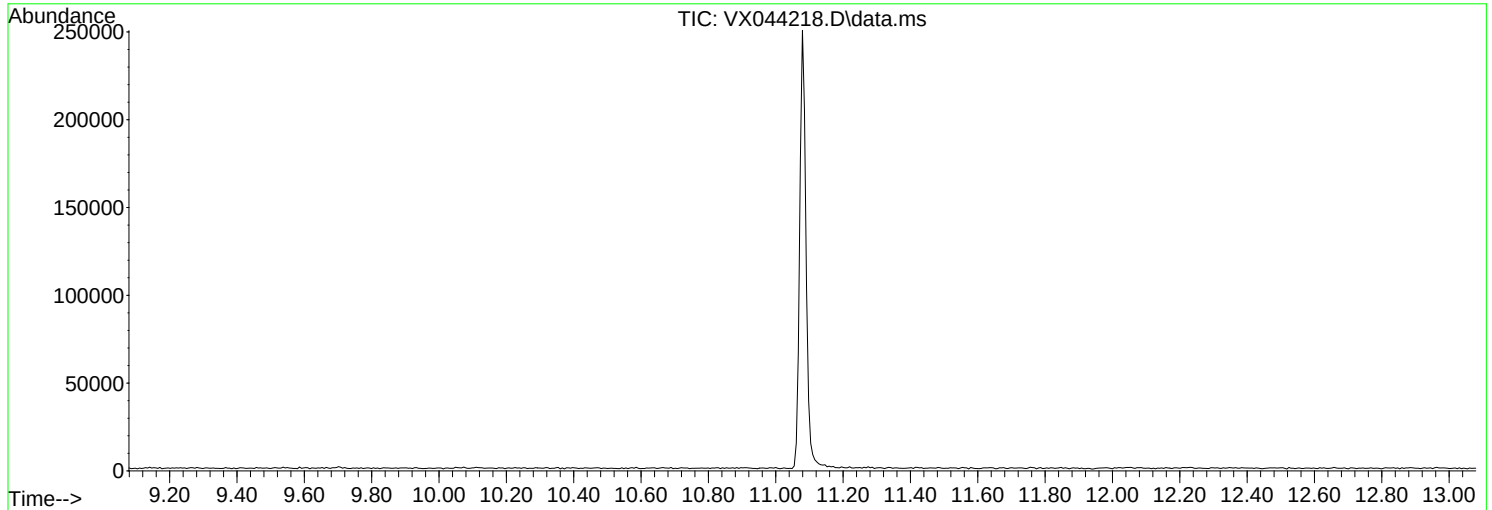
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044218.D
Acq On : 11 Dec 2024 10:13
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Title : SW846 8260
Last Update : Thu Dec 12 04:28:14 2024



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	8939	PASS
75	95	30	60	56.2	23141	PASS
95	95	100	100	100.0	41184	PASS
96	95	5	9	6.7	2759	PASS
173	174	0.00	2	1.2	353	PASS
174	95	50	100	71.1	29272	PASS
175	174	5	9	7.3	2147	PASS
176	174	95	101	96.6	28285	PASS
177	176	5	9	6.8	1915	PASS

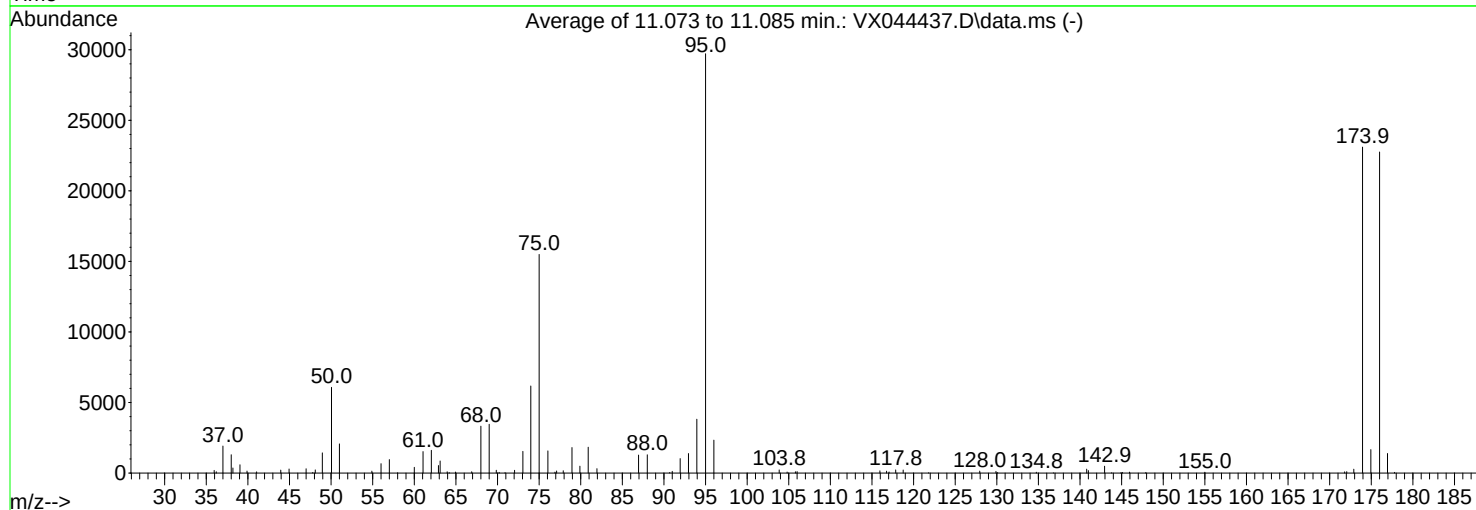
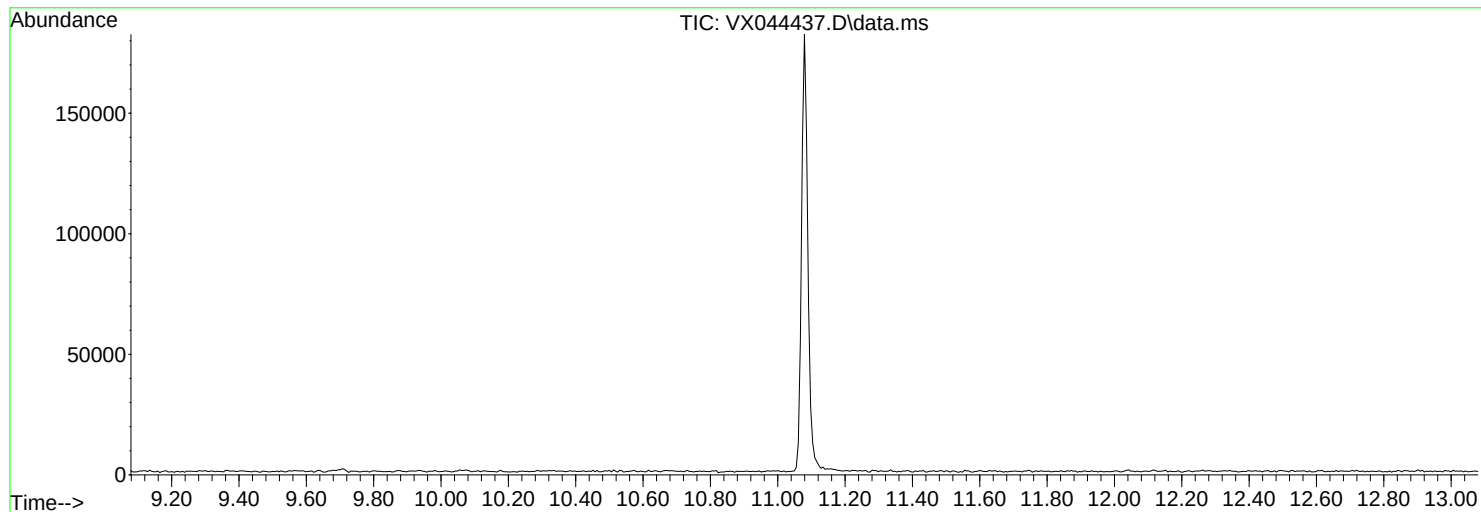
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044437.D
Acq On : 20 Dec 2024 08:49
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Title : SW846 8260
Last Update : Thu Dec 12 04:28:14 2024



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.4	6077	PASS
75	95	30	60	52.1	15496	PASS
95	95	100	100	100.0	29717	PASS
96	95	5	9	7.8	2332	PASS
173	174	0.00	2	1.2	275	PASS
174	95	50	100	77.7	23101	PASS
175	174	5	9	7.2	1663	PASS
176	174	95	101	98.5	22752	PASS
177	176	5	9	6.1	1389	PASS

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VX1220WBL01	SDG No.:	P5314
Lab Sample ID:	VX1220WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044440.D	1		12/20/24 10:23	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VX1220WBL01	SDG No.:	P5314
Lab Sample ID:	VX1220WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044440.D	1		12/20/24 10:23	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.1		81 - 118		88%	SPK: 50
1868-53-7	Dibromofluoromethane	47.5		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	52.1		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	121000	5.55				
540-36-3	1,4-Difluorobenzene	218000	6.757				
3114-55-4	Chlorobenzene-d5	194000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	81000	12.018				

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_X\Data\VX122024\
Data File : VX044440.D
Acq On : 20 Dec 2024 10:23
Operator : JC/MD
Sample : VX1220WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBL01

Quant Time: Dec 20 22:20:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	120864	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	218417	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	193836	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	81005	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	93379	44.065	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	88.120%	
35) Dibromofluoromethane	5.379	113	71852	47.498	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	95.000%	
50) Toluene-d8	8.647	98	265638	52.050	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	104.100%	
62) 4-Bromofluorobenzene	11.079	95	86300	48.393	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	96.780%	

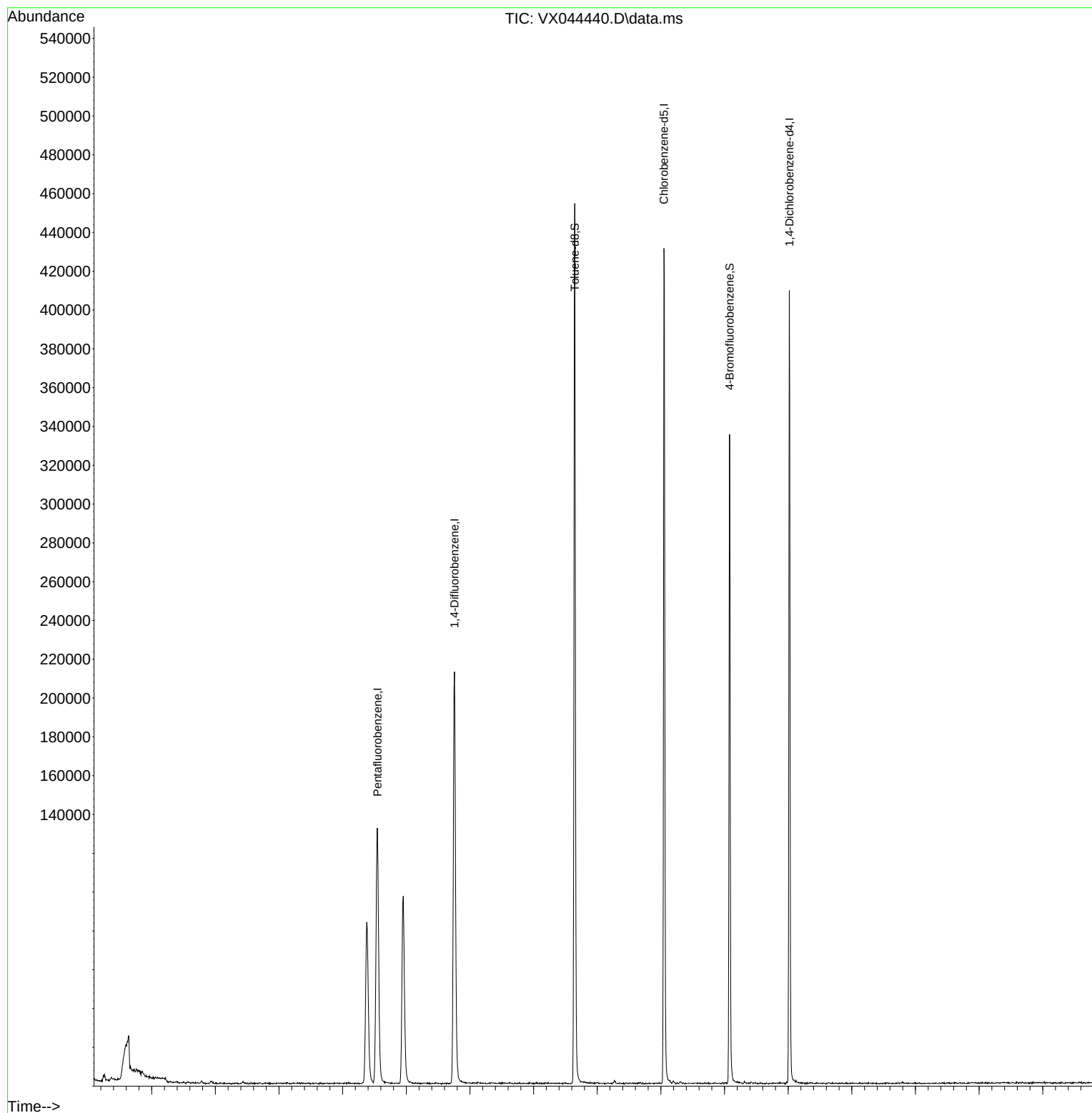
Target Compounds Qvalue

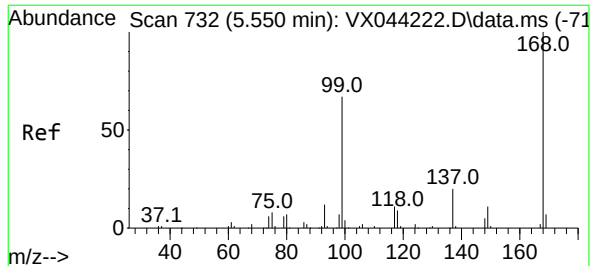
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044440.D
Acq On : 20 Dec 2024 10:23
Operator : JC/MD
Sample : VX1220WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBL01

Quant Time: Dec 20 22:20:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.000 min

Lab File: VX044440.D

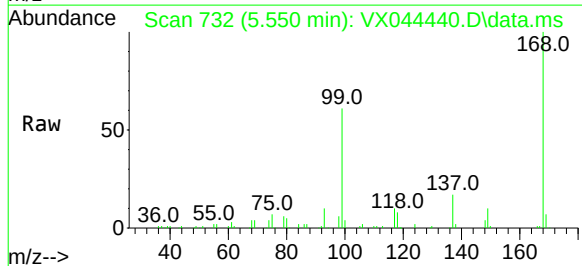
Acq: 20 Dec 2024 10:23

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBL01

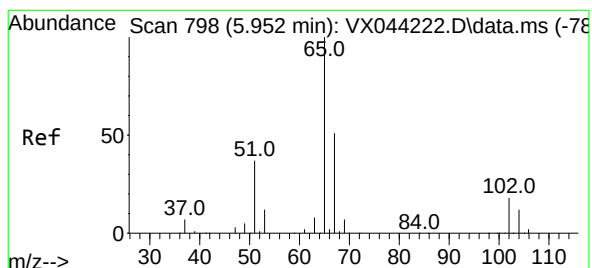
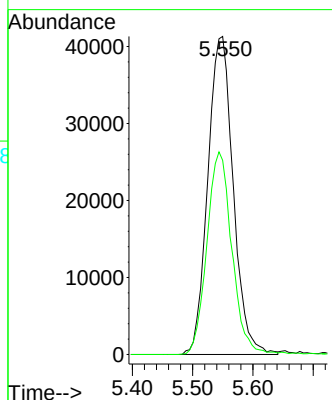
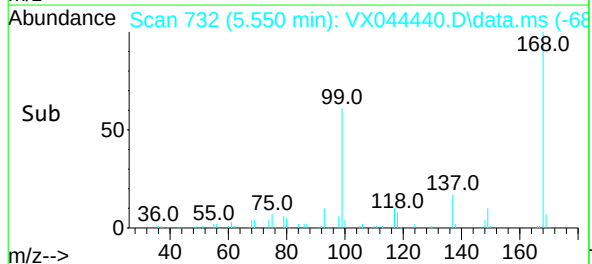


Tgt Ion:168 Resp: 120864

Ion Ratio Lower Upper

168 100

99 61.0 53.4 80.0



#33

1,2-Dichloroethane-d4

Concen: 44.065 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX044440.D

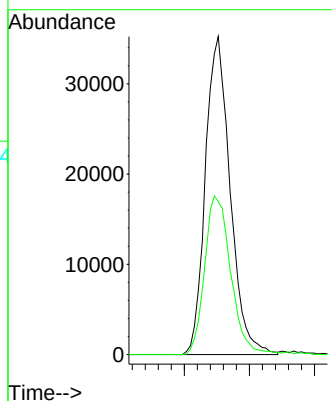
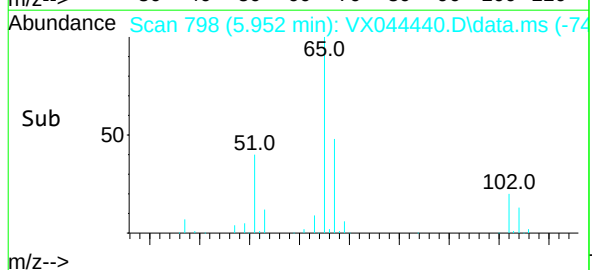
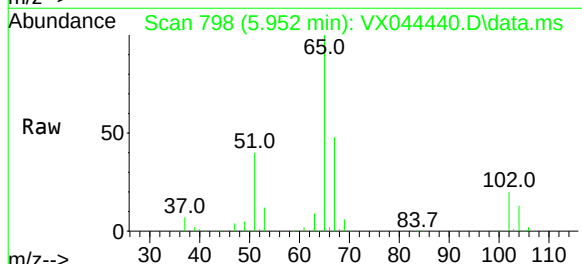
Acq: 20 Dec 2024 10:23

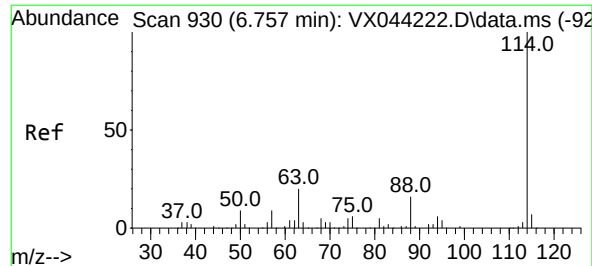
Tgt Ion: 65 Resp: 93379

Ion Ratio Lower Upper

65 100

67 52.3 0.0 101.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 93

Delta R.T. -0.000 min

Lab File: VX044440.D

Acq: 20 Dec 2024 10:23

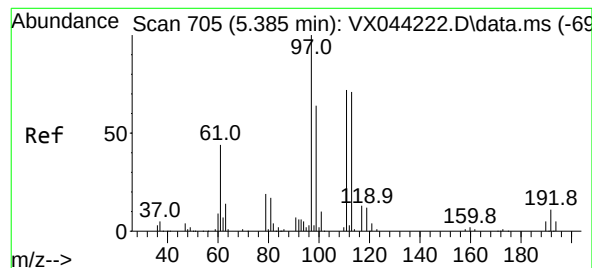
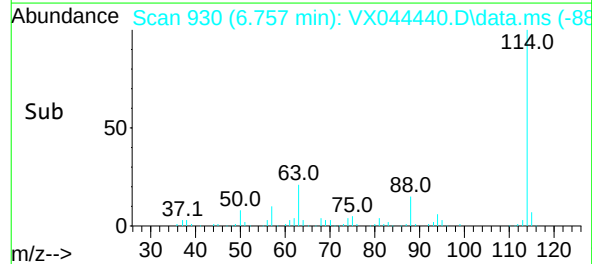
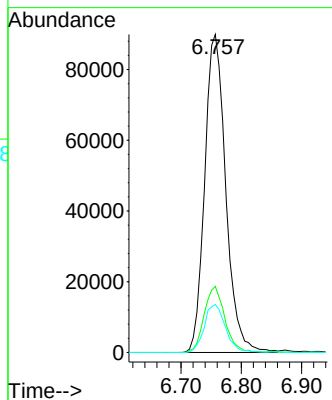
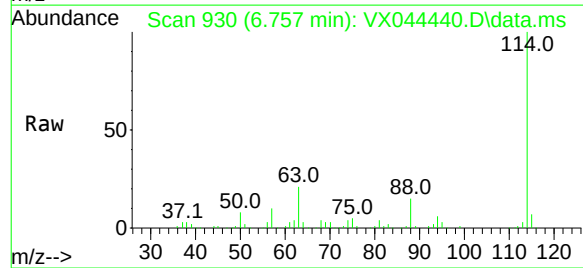
Instrument :

MSVOA_X

ClientSampleId :

VX1220WBL01

Tgt Ion:	114	Resp:	218417
Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	40.6
88	15.1	0.0	31.8



#35

Dibromofluoromethane

Concen: 47.498 ug/l

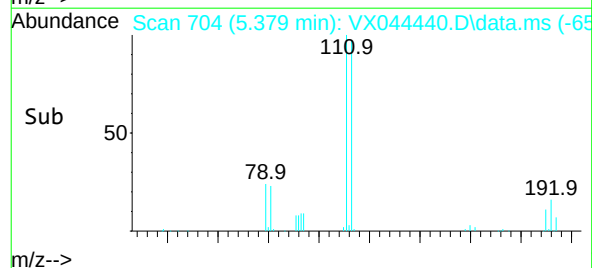
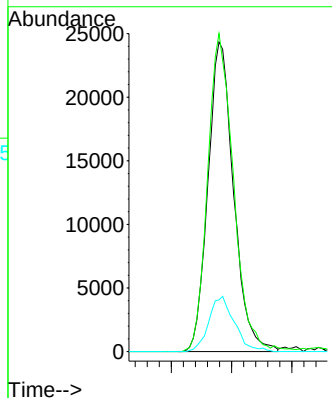
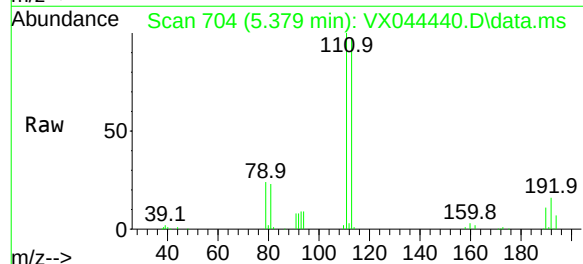
RT: 5.379 min Scan# 704

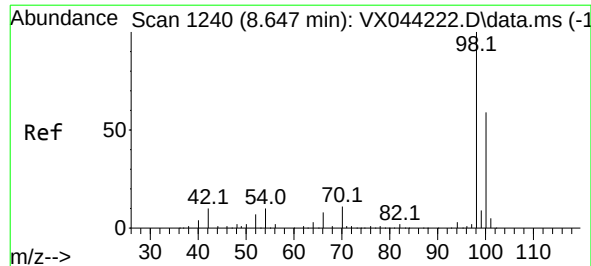
Delta R.T. -0.006 min

Lab File: VX044440.D

Acq: 20 Dec 2024 10:23

Tgt Ion:	113	Resp:	71852
Ion	Ratio	Lower	Upper
113	100		
111	103.7	80.4	120.6
192	17.8	13.3	19.9





#50

Toluene-d8

Concen: 52.050 ug/l

RT: 8.647 min Scan# 12

Delta R.T. -0.000 min

Lab File: VX044440.D

Acq: 20 Dec 2024 10:23

Instrument :

MSVOA_X

ClientSampleId :

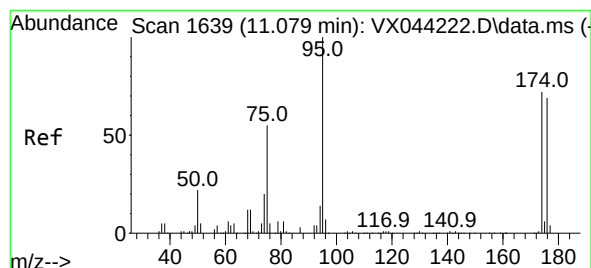
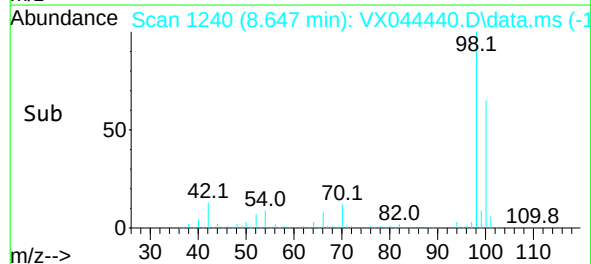
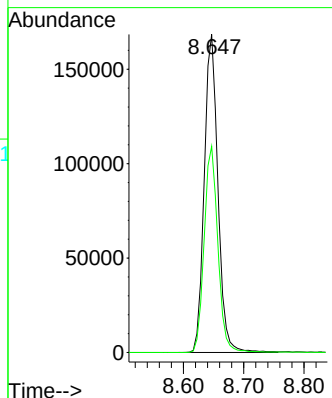
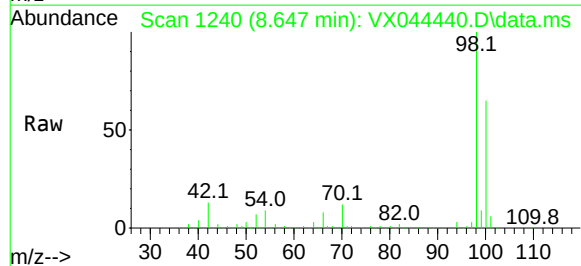
VX1220WBL01

Tgt Ion: 98 Resp: 265638

Ion Ratio Lower Upper

98 100

100 65.0 51.5 77.3



#62

4-Bromofluorobenzene

Concen: 48.393 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX044440.D

Acq: 20 Dec 2024 10:23

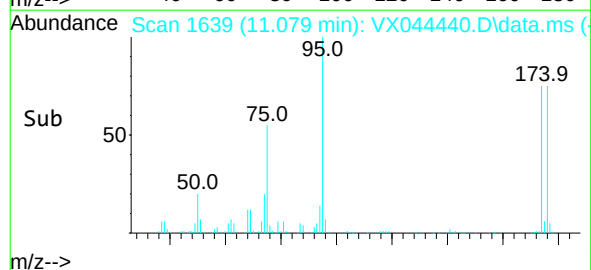
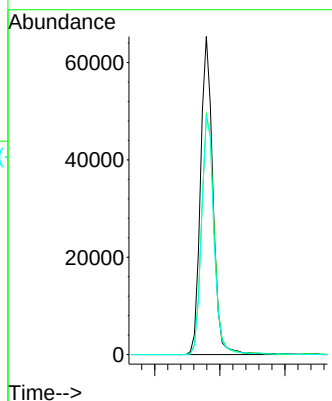
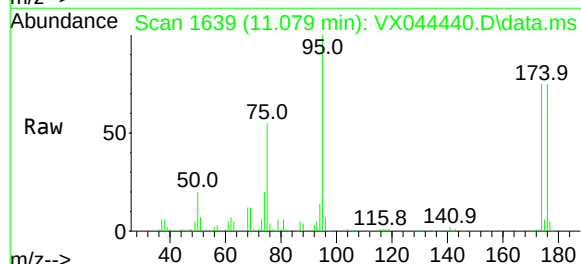
Tgt Ion: 95 Resp: 86300

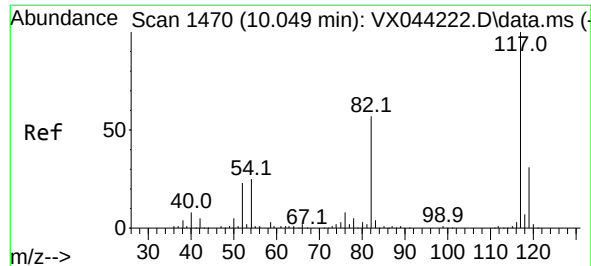
Ion Ratio Lower Upper

95 100

174 77.9 0.0 145.8

176 75.4 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.000 min

Lab File: VX044440.D

Acq: 20 Dec 2024 10:23

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBL01

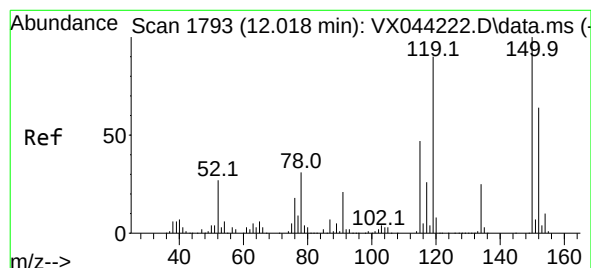
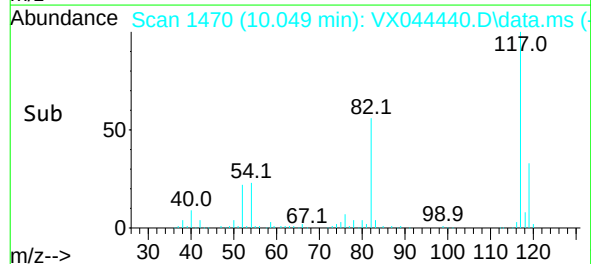
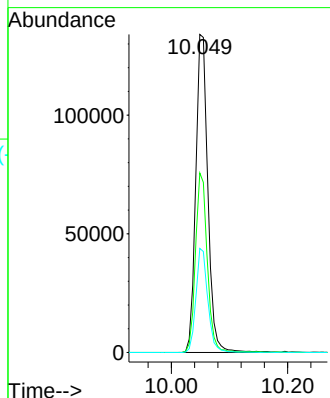
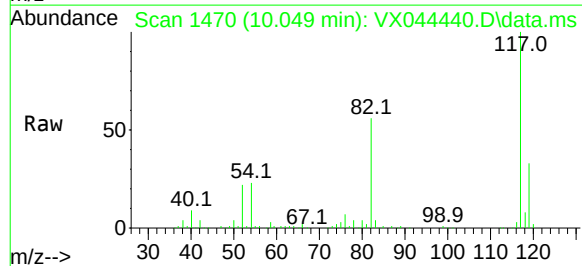
Tgt Ion:117 Resp: 193836

Ion Ratio Lower Upper

117 100

82 56.4 45.8 68.8

119 32.7 25.0 37.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX044440.D

Acq: 20 Dec 2024 10:23

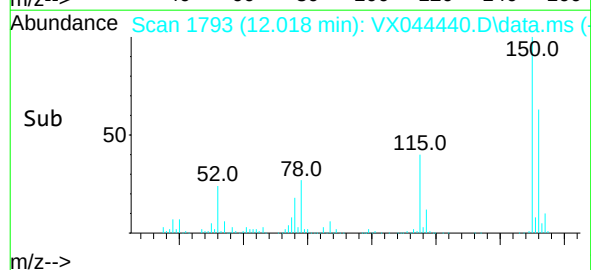
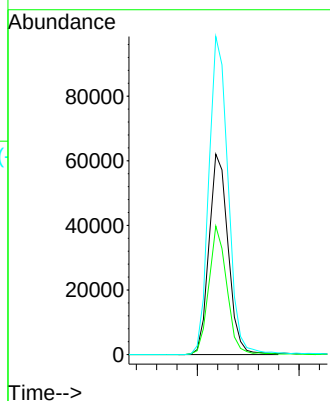
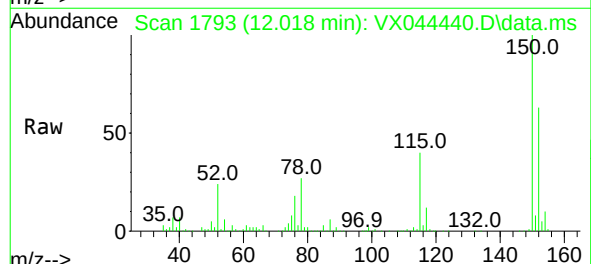
Tgt Ion:152 Resp: 81005

Ion Ratio Lower Upper

152 100

115 60.9 44.5 133.3

150 161.2 0.0 353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044440.D
Acq On : 20 Dec 2024 10:23
Operator : JC/MD
Sample : VX1220WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Title : SW846 8260

Signal : TIC: VX044440.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.593	68	83	85	rBV3	17567	61845	8.60%	1.645%
2	5.379	694	704	721	rVB2	82887	244721	34.02%	6.507%
3	5.544	721	731	748	rBV	131367	380151	52.85%	10.109%
4	5.952	788	798	814	rBV	96583	263539	36.64%	7.008%
5	6.757	918	930	947	rBV	212255	519186	72.18%	13.806%
6	8.647	1234	1240	1255	rBV	453168	719332	100.00%	19.128%
7	10.049	1465	1470	1483	rBV	430256	613080	85.23%	16.303%
8	11.079	1634	1639	1657	rBV	334297	438078	60.90%	11.649%
9	12.018	1788	1793	1803	rBV	408325	520707	72.39%	13.846%

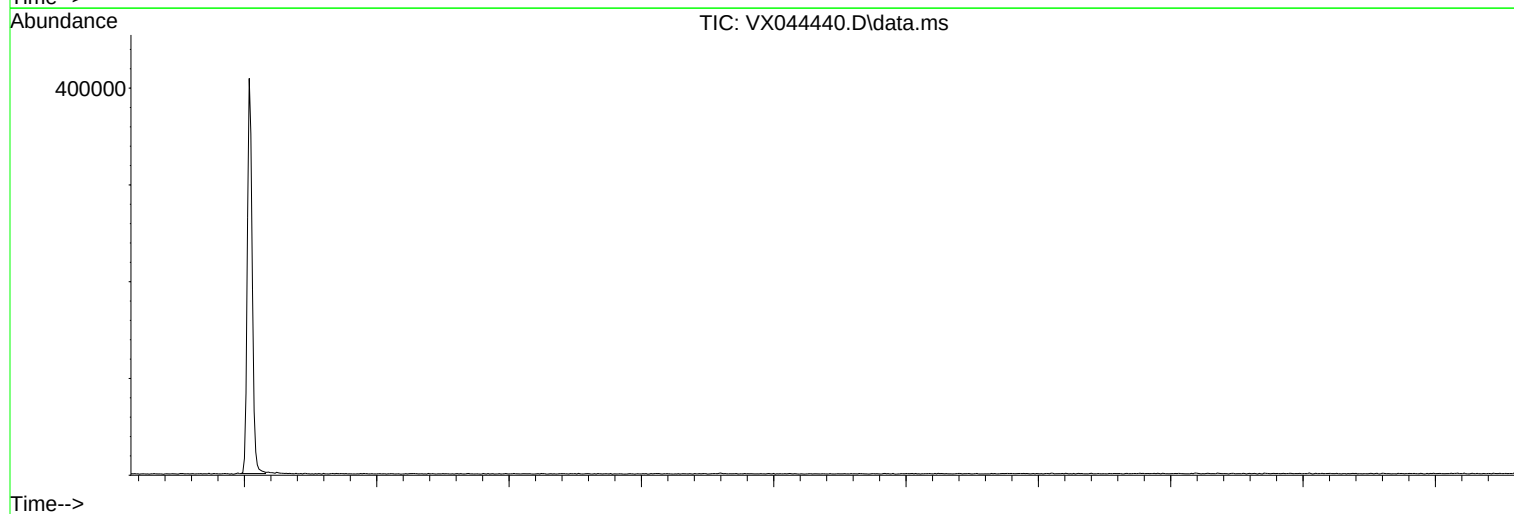
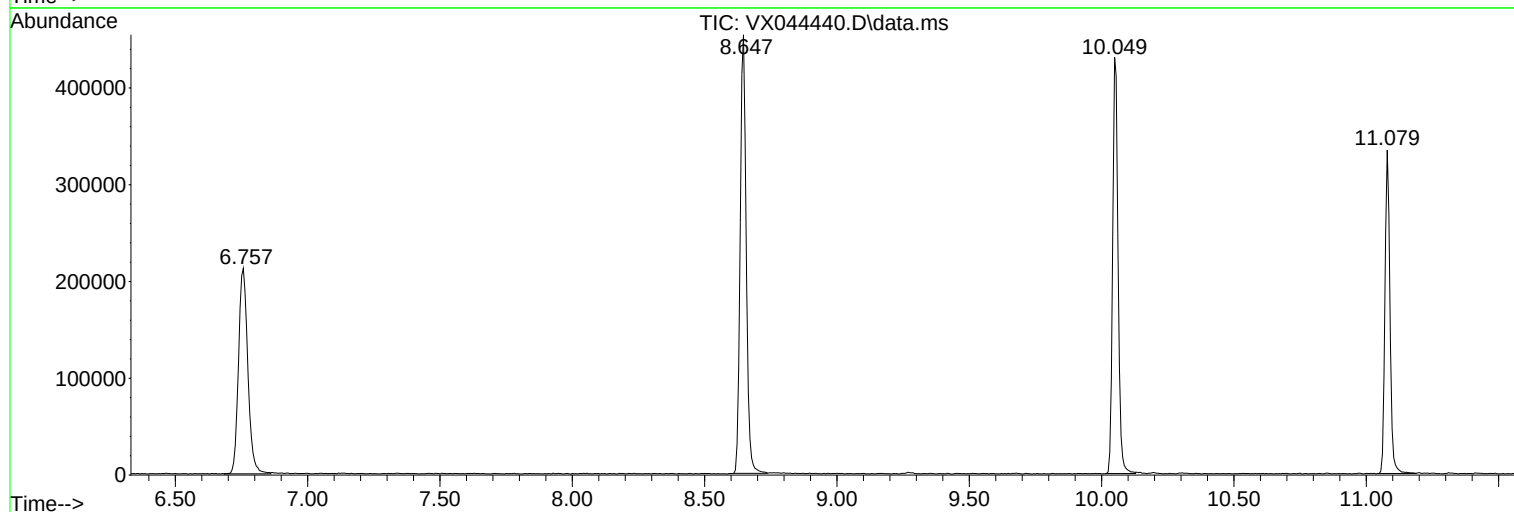
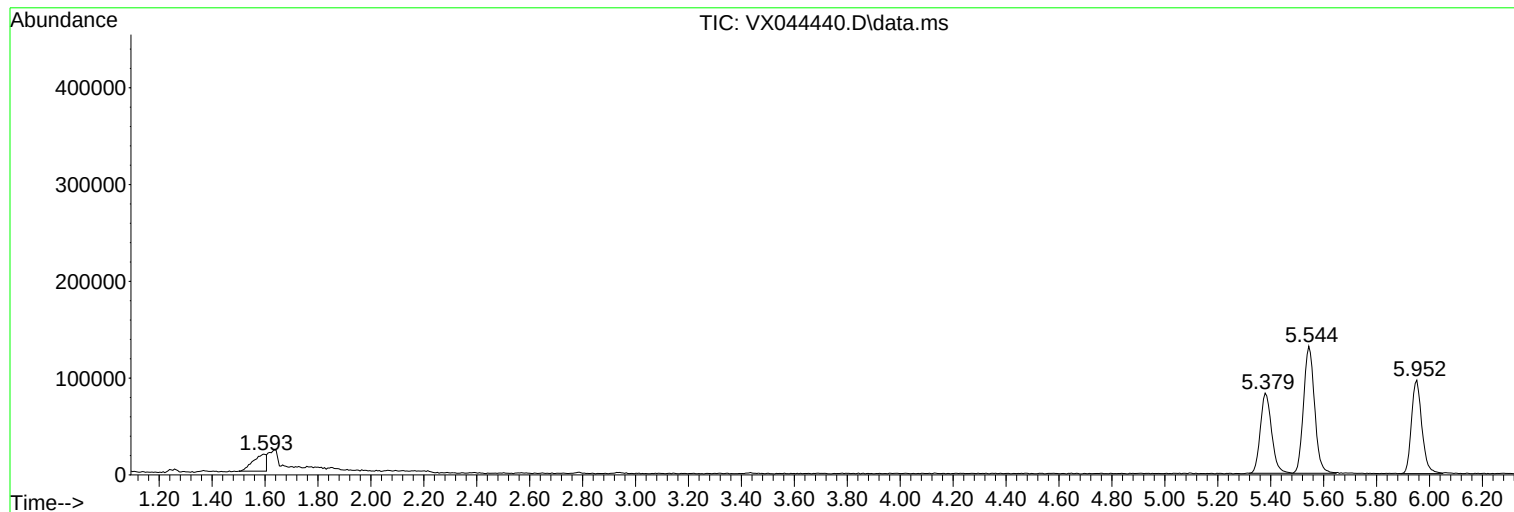
Sum of corrected areas: 3760639

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044440.D
Acq On : 20 Dec 2024 10:23
Operator : JC/MD
Sample : VX1220WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044440.D
Acq On : 20 Dec 2024 10:23
Operator : JC/MD
Sample : VX1220WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044440.D
Acq On : 20 Dec 2024 10:23
Operator : JC/MD
Sample : VX1220WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VX1220WBS01		SDG No.:	P5314
Lab Sample ID:	VX1220WBS01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044441.D	1		12/20/24 10:46	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	18.7		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	17.9		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	18.8		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	19.8		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	15.3		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.5		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.9		0.26	0.75	1.00	ug/L
67-64-1	Acetone	75.7		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	16.4		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.6		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	19.1		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.7		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.9		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	83.3		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.9		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.0		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	17.7		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.5		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	19.3		0.19	0.50	1.00	ug/L
71-43-2	Benzene	20.4		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.2		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.9		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.1		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.1		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	92.4		0.75	2.50	5.00	ug/L
108-88-3	Toluene	19.5		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	17.9		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.2		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.8		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	90.4		1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	
Project:	CTO WE13			Date Received:	
Client Sample ID:	VX1220WBS01			SDG No.:	P5314
Lab Sample ID:	VX1220WBS01			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID :	0.18	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044441.D	1		12/20/24 10:46	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	18.8		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.8		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.9		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.2		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	39.8		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	19.8		0.14	0.50	1.00	ug/L
100-42-5	Styrene	19.8		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	19.3		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	19.9		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.6		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.1		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.0		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.8		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.7		81 - 118		85%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	48.7		89 - 112		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.4		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	147000	5.55				
540-36-3	1,4-Difluorobenzene	249000	6.757				
3114-55-4	Chlorobenzene-d5	212000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	96900	12.018				

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_X\Data\VX122024\
Data File : VX044441.D
Acq On : 20 Dec 2024 10:46
Operator : JC/MD
Sample : VX1220WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Quant Time: Dec 20 22:21:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	146515	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	249173	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	212384	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	96885	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.952	65	109691	42.700	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	85.400%
35) Dibromofluoromethane	5.379	113	83769	48.541	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.080%
50) Toluene-d8	8.647	98	283358	48.669	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.340%
62) 4-Bromofluorobenzene	11.079	95	94485	46.443	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	92.880%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	41893	18.492	ug/l	95
3) Chloromethane	1.294	50	40546	18.715	ug/l	99
4) Vinyl Chloride	1.374	62	40370	17.887	ug/l	97
5) Bromomethane	1.599	94	30109	18.804	ug/l	96
6) Chloroethane	1.666	64	27776	19.764	ug/l	99
7) Trichlorofluoromethane	1.874	101	67604	15.300	ug/l	99
8) Diethyl Ether	2.136	74	26079	17.291	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	33030	18.474	ug/l	94
10) Methyl Iodide	2.447	142	45795	19.434	ug/l	96
11) Tert butyl alcohol	2.989	59	33237	91.803	ug/l	96
12) 1,1-Dichloroethene	2.312	96	30995	18.873	ug/l	96
13) Acrolein	2.239	56	44044	84.041	ug/l	96
14) Allyl chloride	2.660	41	49108	17.953	ug/l	96
15) Acrylonitrile	3.068	53	90872	90.610	ug/l	99
16) Acetone	2.386	43	79327	75.745	ug/l	91
17) Carbon Disulfide	2.501	76	51100	16.369	ug/l	100
18) Methyl Acetate	2.703	43	47831	17.713	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	112975	17.629	ug/l	97
20) Methylene Chloride	2.782	84	37654	19.142	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	32618	18.688	ug/l	96
22) Diisopropyl ether	3.763	45	110674	17.968	ug/l	97
23) Vinyl Acetate	3.721	43	456052	91.069	ug/l	99
24) 1,1-Dichloroethane	3.605	63	64973	18.923	ug/l	98
25) 2-Butanone	4.562	43	124008	83.289	ug/l	98
26) 2,2-Dichloropropane	4.471	77	51269	18.380	ug/l	98
27) cis-1,2-Dichloroethene	4.489	96	39842	17.974	ug/l	97
28) Bromochloromethane	4.891	49	26535	15.760	ug/l	97
29) Tetrahydrofuran	5.007	42	81181	84.947	ug/l	99
30) Chloroform	5.092	83	68227	17.686	ug/l	99
31) Cyclohexane	5.470	56	48875	17.628	ug/l	93
32) 1,1,1-Trichloroethane	5.373	97	55907	17.459	ug/l	98
36) 1,1-Dichloropropene	5.690	75	41416	18.566	ug/l	97
37) Ethyl Acetate	4.721	43	48014	17.412	ug/l	96
38) Carbon Tetrachloride	5.672	117	45386	18.898	ug/l	93
39) Methylcyclohexane	7.373	83	51554	19.332	ug/l	98
40) Benzene	6.031	78	137885	20.358	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
 Data File : VX044441.D
 Acq On : 20 Dec 2024 10:46
 Operator : JC/MD
 Sample : VX1220WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1220WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
 Supervised By :Mahesh Dadoda 12/24/2024

Quant Time: Dec 20 22:21:15 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:28:14 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	26859	18.343	ug/l	98
42) 1,2-Dichloroethane	6.086	62	53588	19.207	ug/l	97
43) Isopropyl Acetate	6.342	43	79207	18.378	ug/l	99
44) Trichloroethene	7.123	130	33615	19.902	ug/l	88
45) 1,2-Dichloropropane	7.427	63	33011	19.077	ug/l	97
46) Dibromomethane	7.580	93	26495	19.737	ug/l	95
47) Bromodichloromethane	7.818	83	44357	19.132	ug/l	98
48) Methyl methacrylate	7.690	41	36154	17.281	ug/l	94
49) 1,4-Dioxane	7.671	88	10158	292.846	ug/l #	79
51) 4-Methyl-2-Pentanone	8.574	43	255984	92.373	ug/l	99
52) Toluene	8.714	92	82957	19.504	ug/l	97
53) t-1,3-Dichloropropene	8.976	75	41417	17.860	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	48359	19.157	ug/l	99
55) 1,1,2-Trichloroethane	9.147	97	35148	20.801	ug/l	96
56) Ethyl methacrylate	9.116	69	48642	18.235	ug/l	100
57) 1,3-Dichloropropane	9.305	76	56644	19.260	ug/l	97
58) 2-Chloroethyl Vinyl ether	8.238	63	109022	81.033	ug/l	99
59) 2-Hexanone	9.433	43	181241	90.356	ug/l	99
60) Dibromochloromethane	9.518	129	31411	18.848	ug/l	99
61) 1,2-Dibromoethane	9.610	107	34801	20.234	ug/l	100
64) Tetrachloroethene	9.269	164	29267	20.762	ug/l	96
65) Chlorobenzene	10.079	112	90589	19.906	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	30193	20.643	ug/l	99
67) Ethyl Benzene	10.189	91	151105	19.217	ug/l	100
68) m/p-Xylenes	10.299	106	114910	39.825	ug/l	97
69) o-Xylene	10.640	106	57794	19.797	ug/l	95
70) Styrene	10.652	104	92784	19.825	ug/l	96
71) Bromoform	10.799	173	17659	19.275	ug/l #	97
73) Isopropylbenzene	10.963	105	147393	19.872	ug/l	99
74) N-amyl acetate	10.841	43	61829	18.038	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.213	83	50416	19.570	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	40633m	18.784	ug/l	
77) Bromobenzene	11.195	156	36233	20.145	ug/l	95
78) n-propylbenzene	11.299	91	162028	19.765	ug/l	98
79) 2-Chlorotoluene	11.360	91	102209	19.279	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	121225	19.709	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	11072	18.609	ug/l	91
82) 4-Chlorotoluene	11.451	91	112263	19.122	ug/l	97
83) tert-Butylbenzene	11.713	119	120518	19.827	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	121322	20.085	ug/l	98
85) sec-Butylbenzene	11.890	105	143732	19.477	ug/l	100
86) p-Isopropyltoluene	12.006	119	120356	19.596	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	63016	20.058	ug/l	98
88) 1,4-Dichlorobenzene	12.042	146	64444	19.954	ug/l	98
89) n-Butylbenzene	12.329	91	94402	18.279	ug/l	97
90) Hexachloroethane	12.536	117	16712	18.640	ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	64584	19.798	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8263	16.523	ug/l	90
93) 1,2,4-Trichlorobenzene	13.585	180	34820	19.470	ug/l	97
94) Hexachlorobutadiene	13.725	225	15232	21.174	ug/l	99
95) Naphthalene	13.774	128	124472	17.830	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	36757	19.378	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044441.D
Acq On : 20 Dec 2024 10:46
Operator : JC/MD
Sample : VX1220WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Quant Time: Dec 20 22:21:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

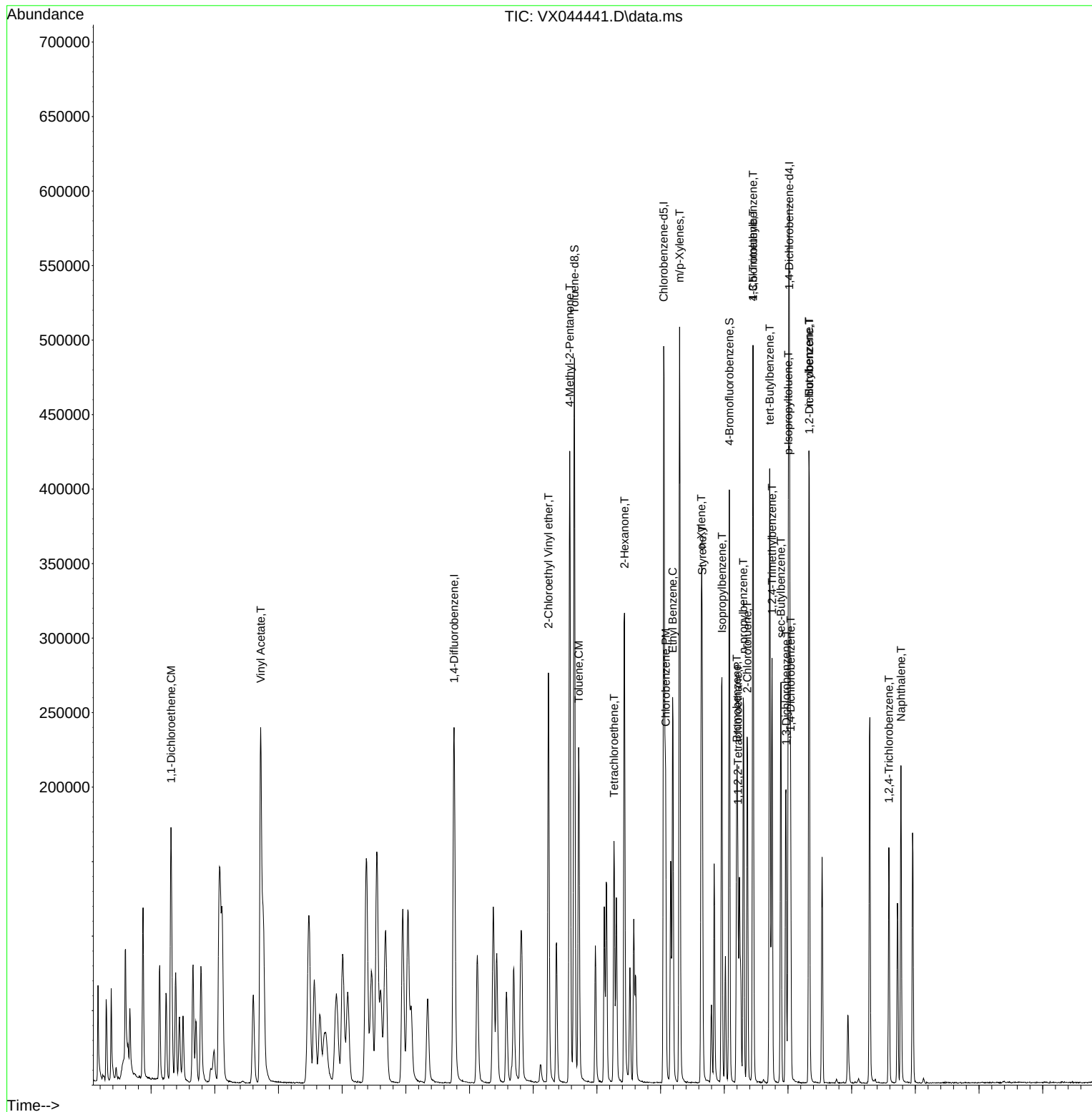
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Data File : VX044441.D
Acq On : 20 Dec 2024 10:46
Operator : JC/MD
Sample : VX1220WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

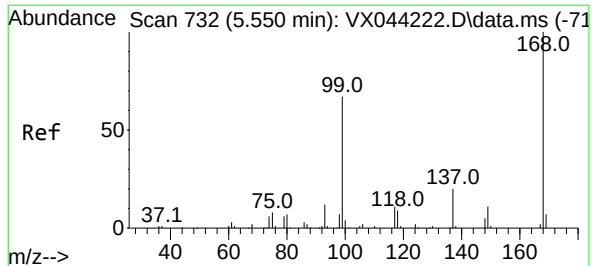
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 12/23/2024
Supervised By : Mahesh Dadoda 12/24/2024

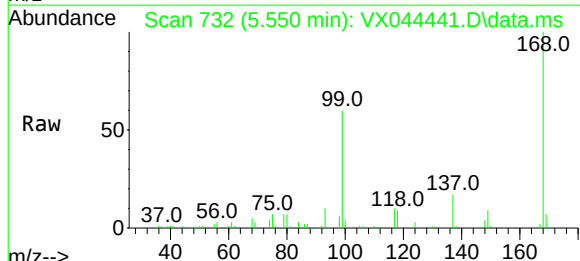
Quant Time: Dec 20 22:21:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

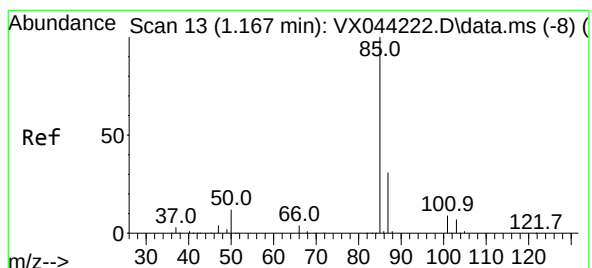
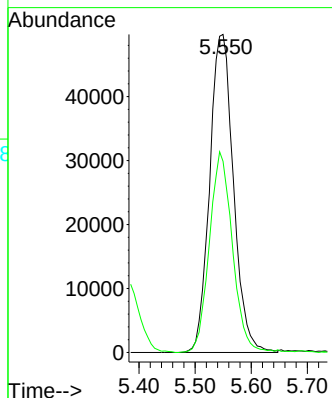
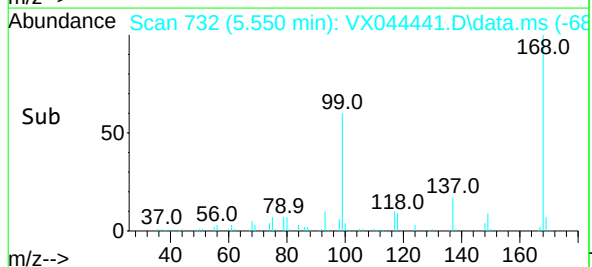
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01



Tgt Ion: 168 Resp: 146515
Ion Ratio Lower Upper
168 100
99 60.1 53.4 80.0

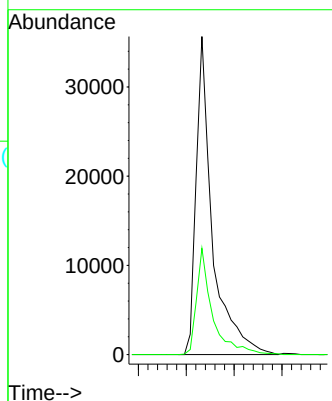
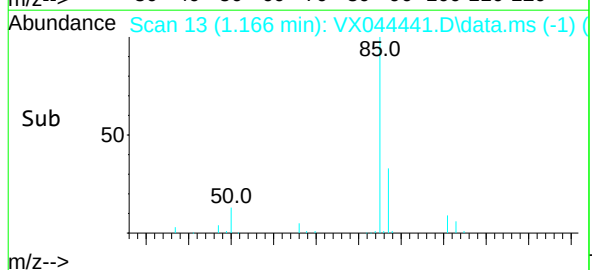
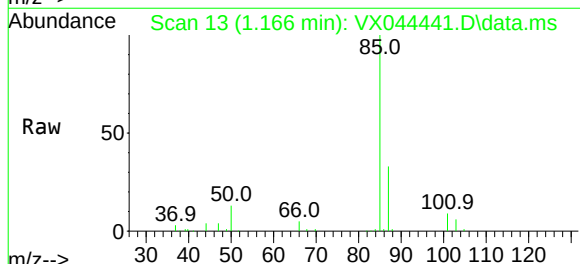
Manual Integrations
APPROVED

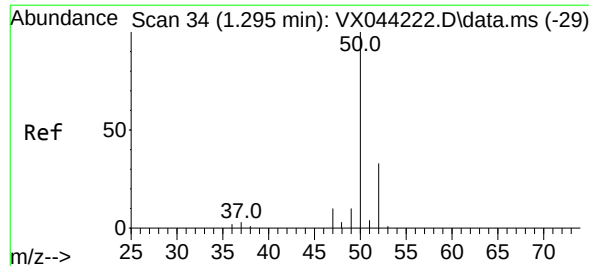
Reviewed By : Semsettin Yesilyurt 12/23/2024
Supervised By : Mahesh Dadoda 12/24/2024



#2
Dichlorodifluoromethane
Concen: 18.492 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 85 Resp: 41893
Ion Ratio Lower Upper
85 100
87 33.4 15.4 46.4





#3

Chloromethane

Concen: 18.715 ug/l

RT: 1.294 min Scan# 34

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion: 50 Resp: 40546

Ion Ratio Lower Upper

50 100

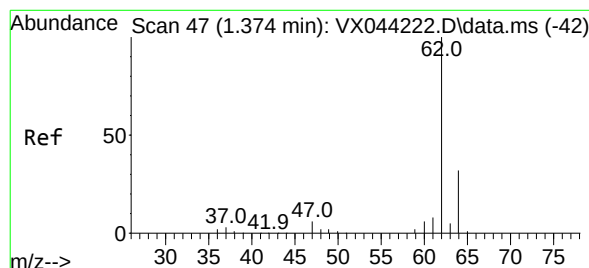
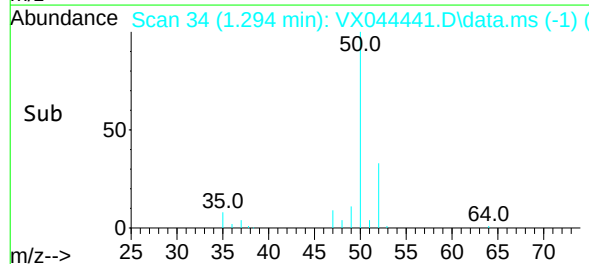
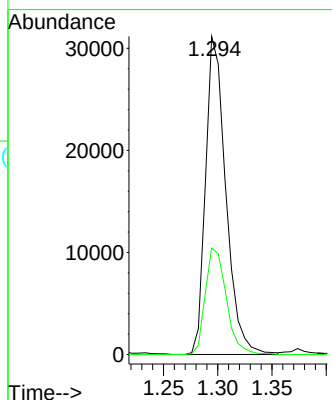
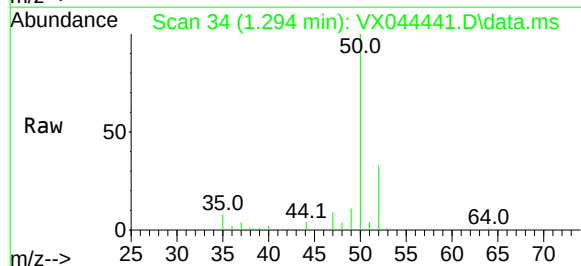
52 33.5 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#4

Vinyl Chloride

Concen: 17.887 ug/l

RT: 1.374 min Scan# 47

Delta R.T. -0.000 min

Lab File: VX044441.D

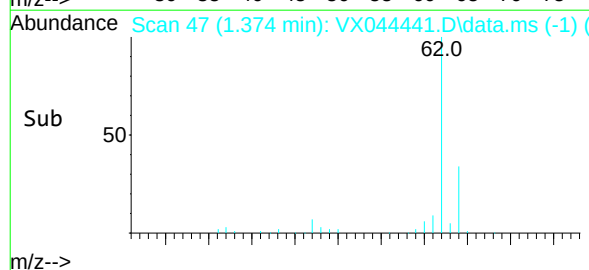
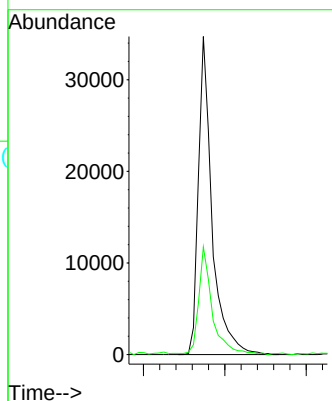
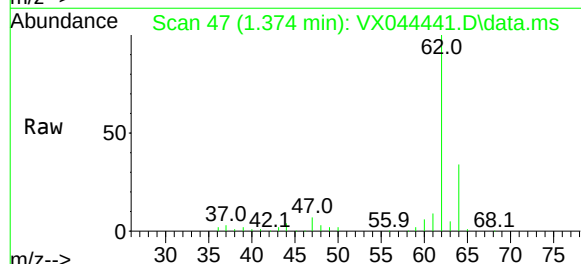
Acq: 20 Dec 2024 10:46

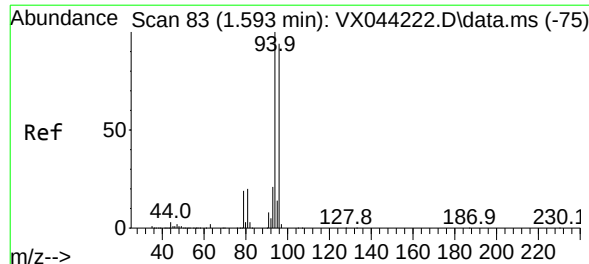
Tgt Ion: 62 Resp: 40370

Ion Ratio Lower Upper

62 100

64 33.5 25.7 38.5





#5

Bromomethane

Concen: 18.804 ug/l

RT: 1.599 min Scan# 84

Delta R.T. 0.006 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion: 94 Resp: 30109

Ion Ratio Lower Upper

94 100

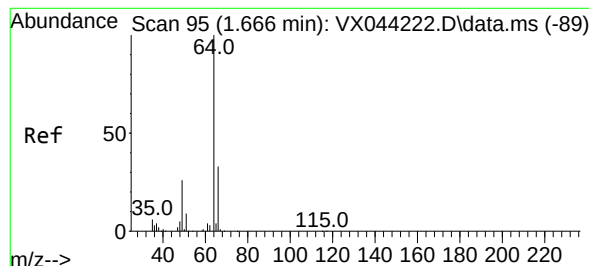
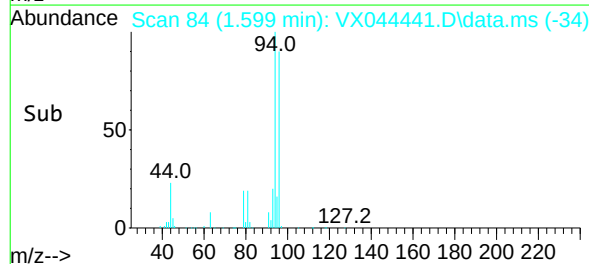
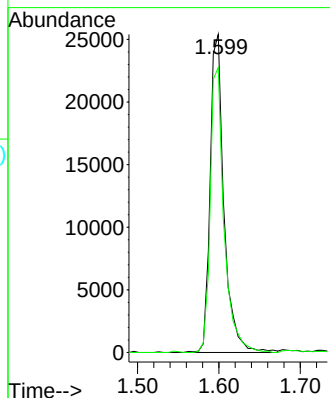
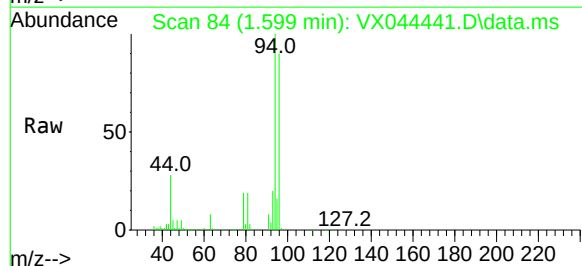
96 89.5 74.9 112.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#6

Chloroethane

Concen: 19.764 ug/l

RT: 1.666 min Scan# 95

Delta R.T. -0.000 min

Lab File: VX044441.D

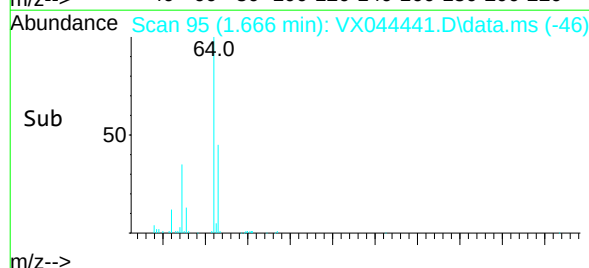
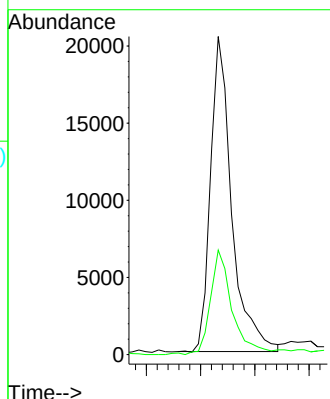
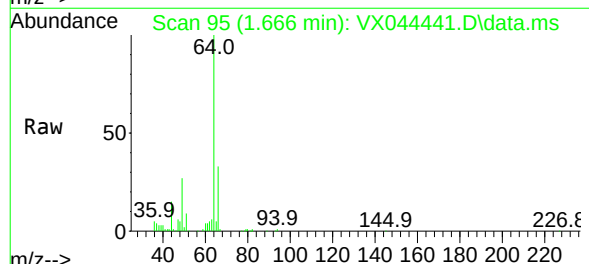
Acq: 20 Dec 2024 10:46

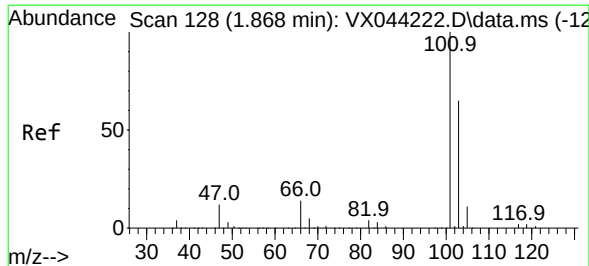
Tgt Ion: 64 Resp: 27776

Ion Ratio Lower Upper

64 100

66 32.7 26.6 39.8





#7

Trichlorofluoromethane

Concen: 15.300 ug/l

RT: 1.874 min Scan# 12

Delta R.T. 0.006 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion:101 Resp: 67604

Ion Ratio Lower Upper

101 100

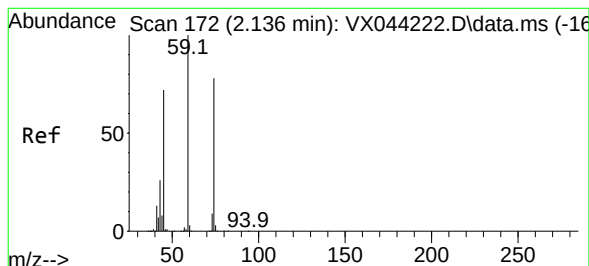
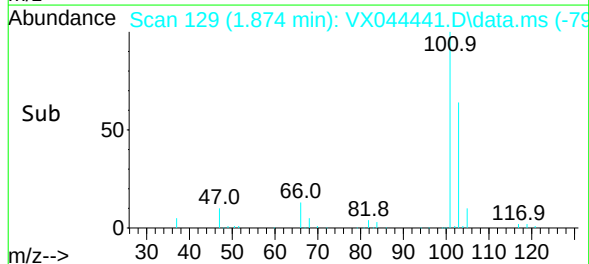
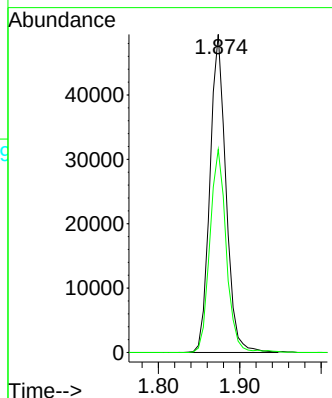
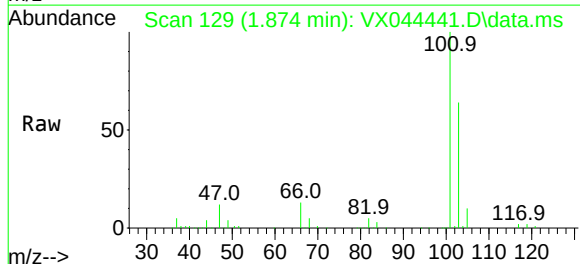
103 63.8 51.8 77.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#8

Diethyl Ether

Concen: 17.291 ug/l

RT: 2.136 min Scan# 172

Delta R.T. -0.000 min

Lab File: VX044441.D

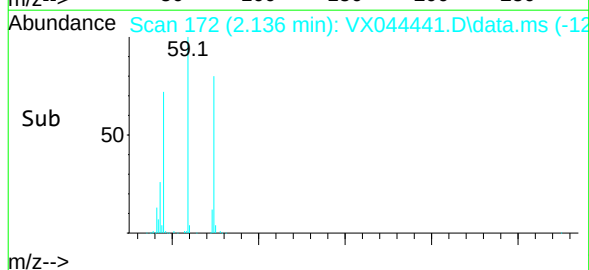
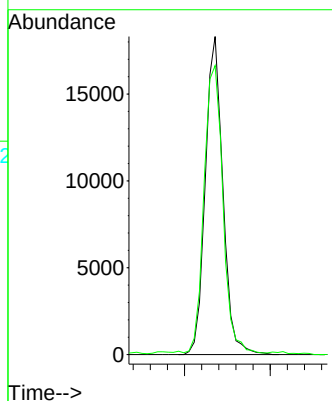
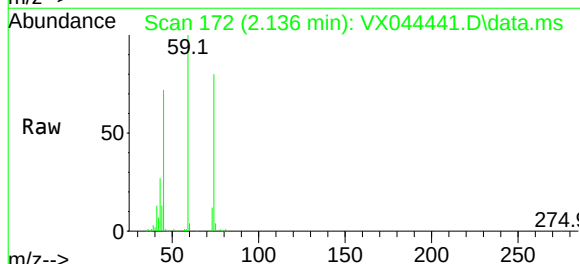
Acq: 20 Dec 2024 10:46

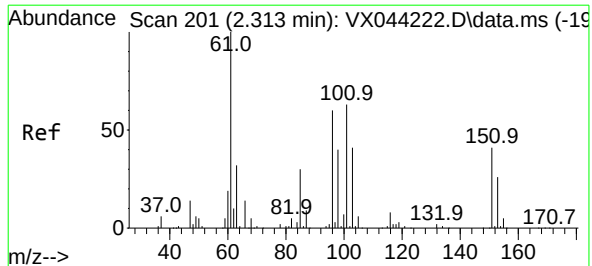
Tgt Ion: 74 Resp: 26079

Ion Ratio Lower Upper

74 100

45 96.3 48.4 145.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.474 ug/l

RT: 2.319 min Scan# 201

Delta R.T. 0.006 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

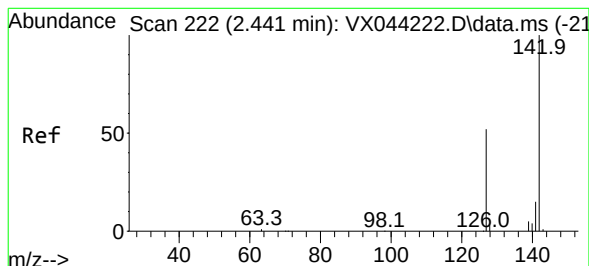
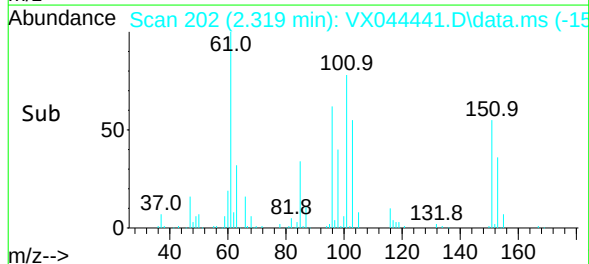
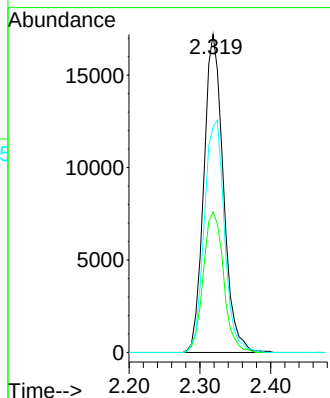
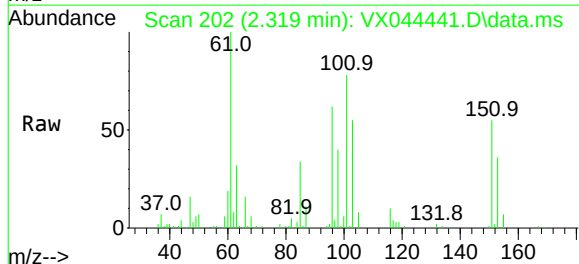
Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion:	101	Resp:	33030
Ion Ratio	Lower	Upper	
101	100		
85	45.8	38.5	57.7
151	75.4	55.8	83.6

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

#10

Methyl Iodide

Concen: 19.434 ug/l

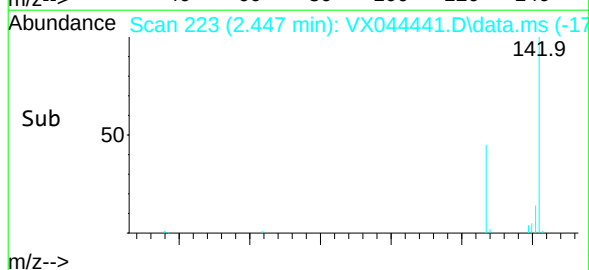
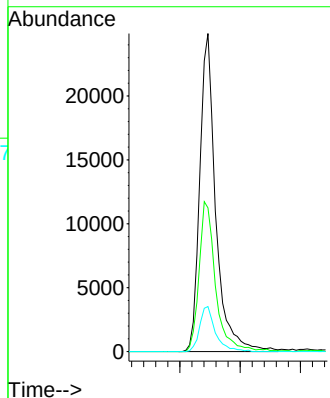
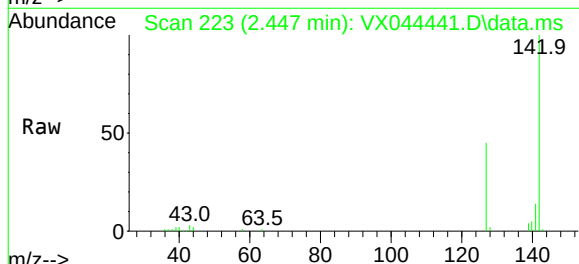
RT: 2.447 min Scan# 223

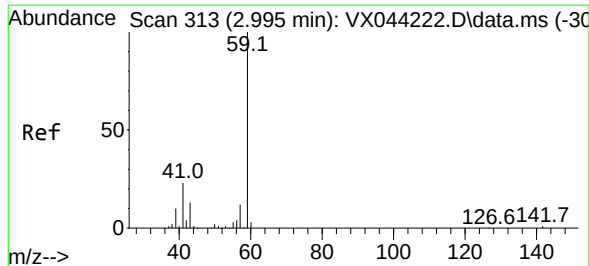
Delta R.T. 0.006 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt Ion:	142	Resp:	45795
Ion Ratio	Lower	Upper	
142	100		
127	48.9	41.8	62.8
141	14.0	11.5	17.3





#11

Tert butyl alcohol

Concen: 91.803 ug/l

RT: 2.989 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion: 59 Resp: 33237

Ion Ratio Lower Upper

59 100

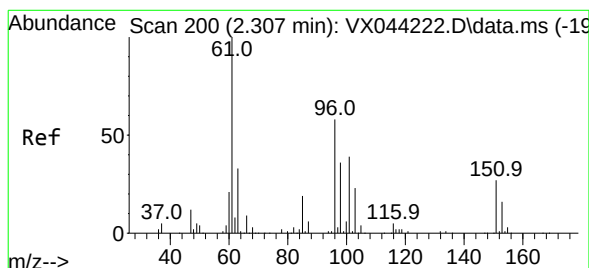
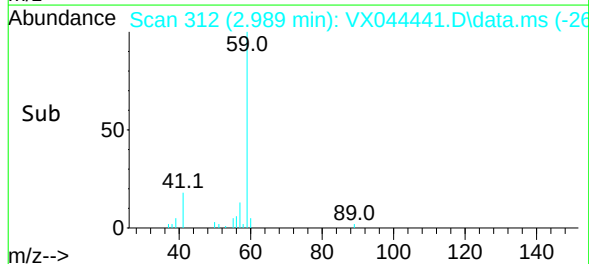
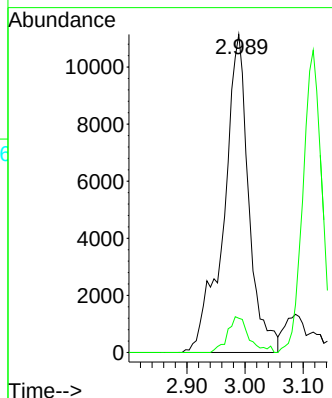
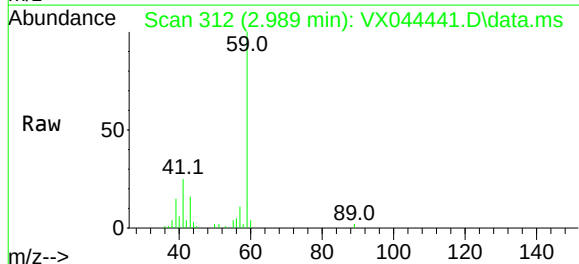
57 9.6 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#12

1,1-Dichloroethene

Concen: 18.873 ug/l

RT: 2.312 min Scan# 201

Delta R.T. 0.006 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

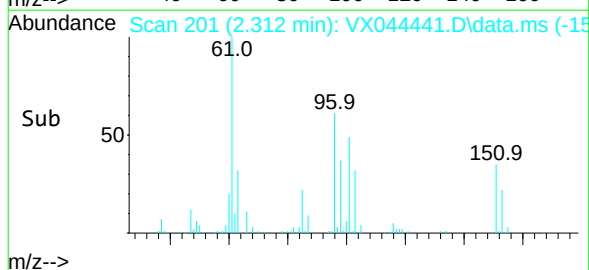
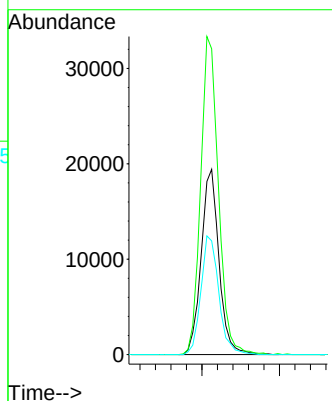
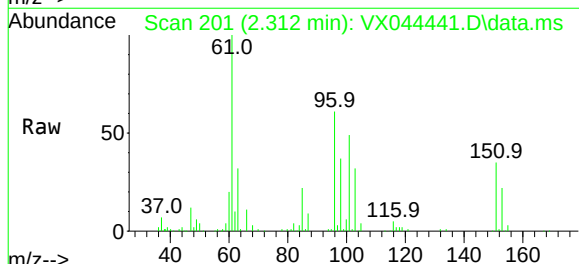
Tgt Ion: 96 Resp: 30995

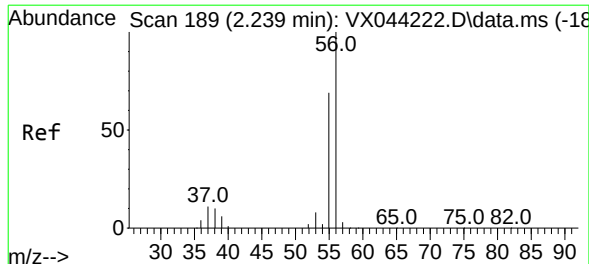
Ion Ratio Lower Upper

96 100

61 165.0 138.0 207.0

98 61.4 50.0 75.0





#13

Acrolein

Concen: 84.041 ug/l

RT: 2.239 min Scan# 18

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt Ion: 56 Resp: 44044

Ion Ratio Lower Upper

56 100

55 67.7 56.6 84.8

Instrument :

MSVOA_X

ClientSampleId :

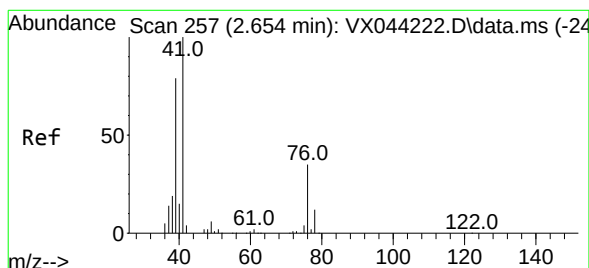
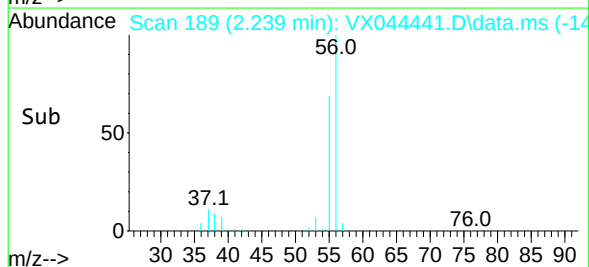
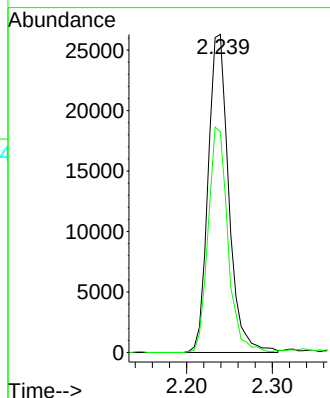
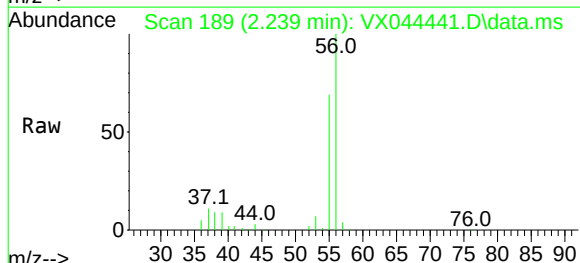
VX1220WBS01

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#14

Allyl chloride

Concen: 17.953 ug/l

RT: 2.660 min Scan# 258

Delta R.T. 0.006 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

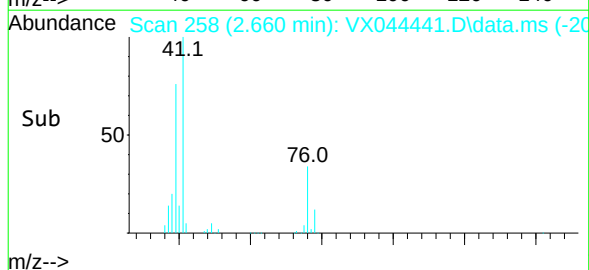
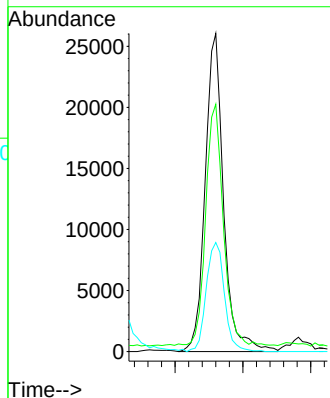
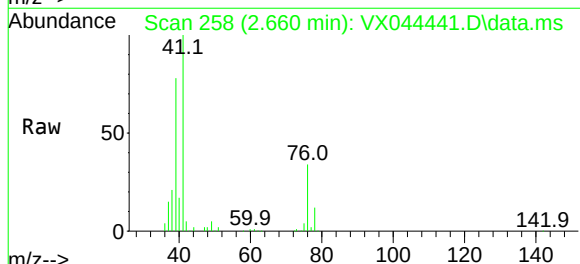
Tgt Ion: 41 Resp: 49108

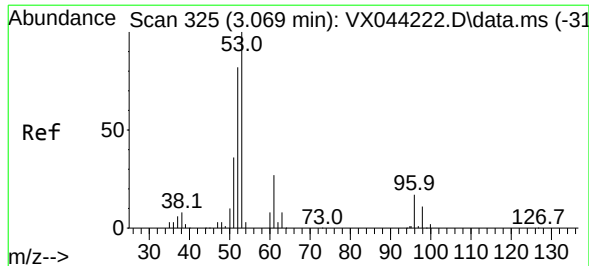
Ion Ratio Lower Upper

41 100

39 73.3 61.9 92.9

76 33.9 27.4 41.2





#15

Acrylonitrile

Concen: 90.610 ug/l

RT: 3.068 min Scan# 32

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

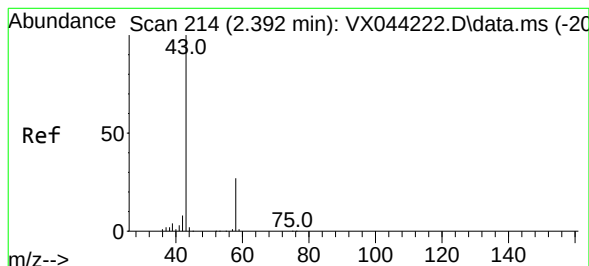
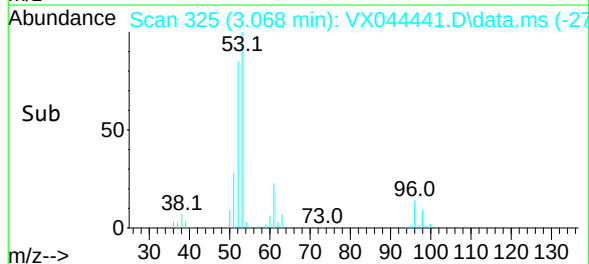
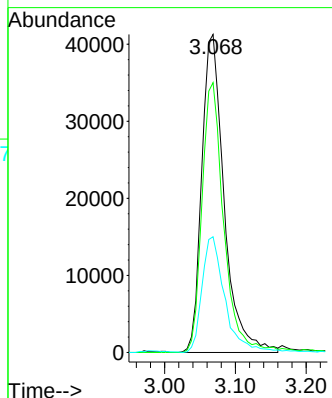
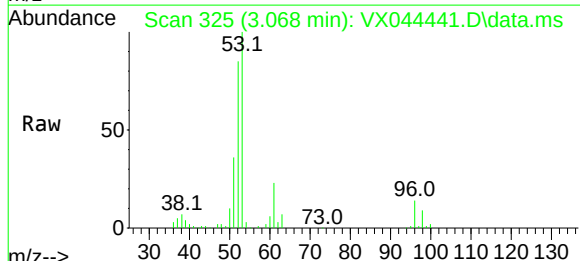
ClientSampleId :

VX1220WBS01

Tgt Ion:	53	Resp:	90872
Ion	Ratio	Lower	Upper
53	100		
52	82.8	67.4	101.0
51	37.6	30.3	45.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#16

Acetone

Concen: 75.745 ug/l

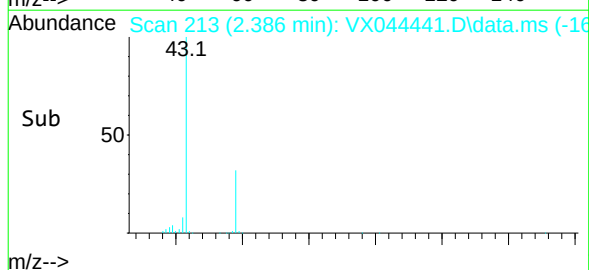
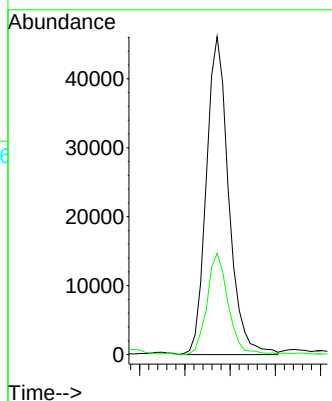
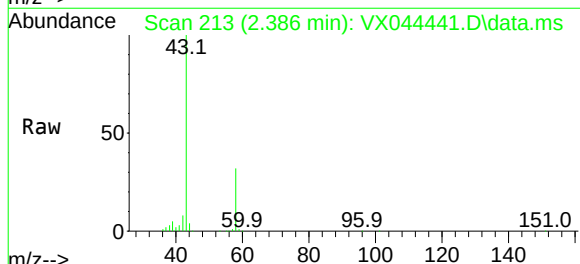
RT: 2.386 min Scan# 213

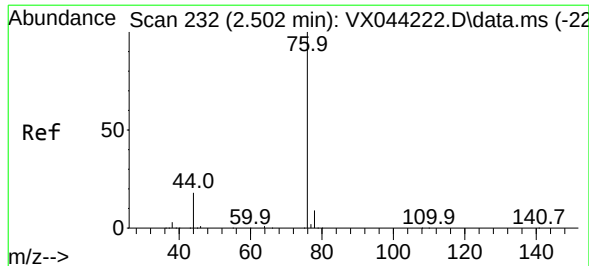
Delta R.T. -0.006 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt Ion:	43	Resp:	79327
Ion	Ratio	Lower	Upper
43	100		
58	31.7	21.6	32.4





#17

Carbon Disulfide

Concen: 16.369 ug/l

RT: 2.501 min Scan# 23

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion: 76 Resp: 51100

Ion Ratio Lower Upper

76 100

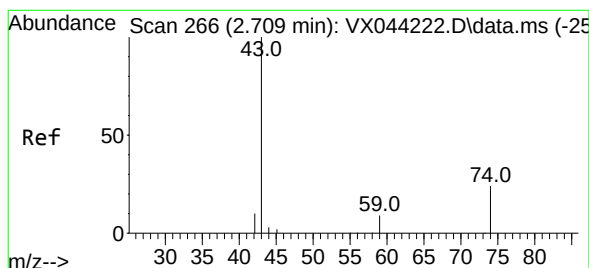
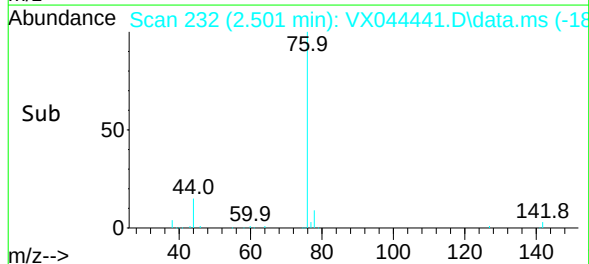
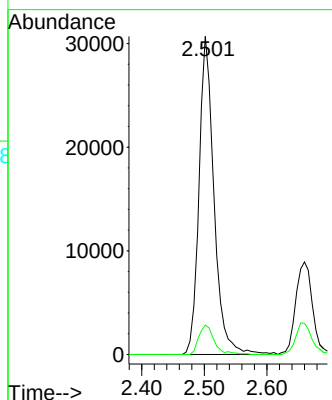
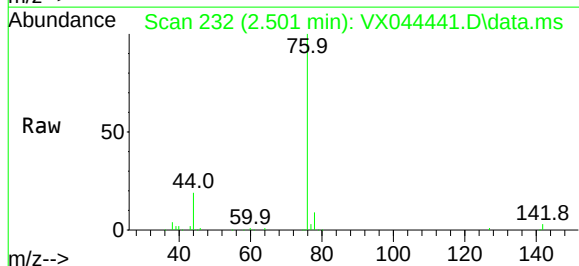
78 9.2 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#18

Methyl Acetate

Concen: 17.713 ug/l

RT: 2.703 min Scan# 265

Delta R.T. -0.006 min

Lab File: VX044441.D

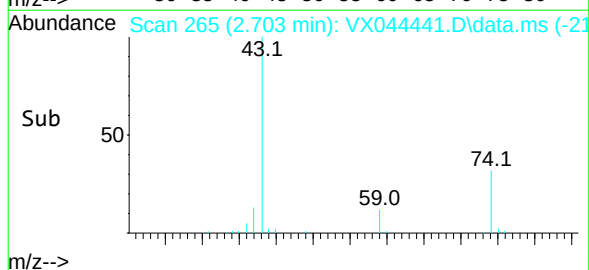
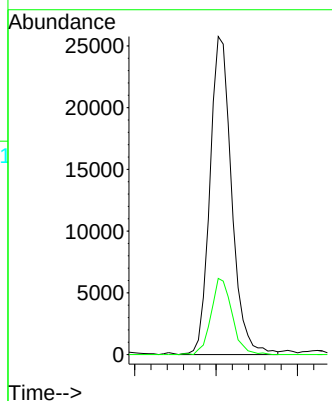
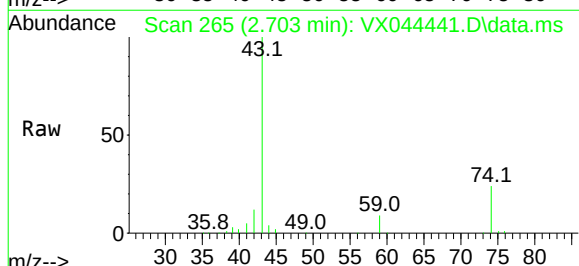
Acq: 20 Dec 2024 10:46

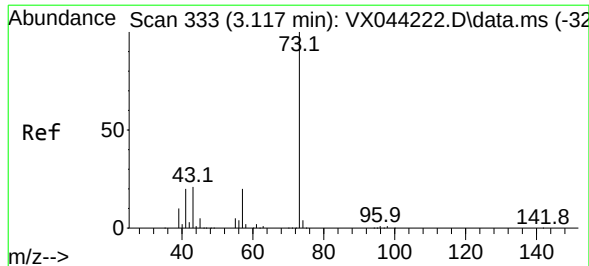
Tgt Ion: 43 Resp: 47831

Ion Ratio Lower Upper

43 100

74 23.1 17.7 26.5





#19

Methyl tert-butyl Ether

Concen: 17.629 ug/l

RT: 3.117 min Scan# 333

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion: 73 Resp: 112975

Ion Ratio Lower Upper

73 100

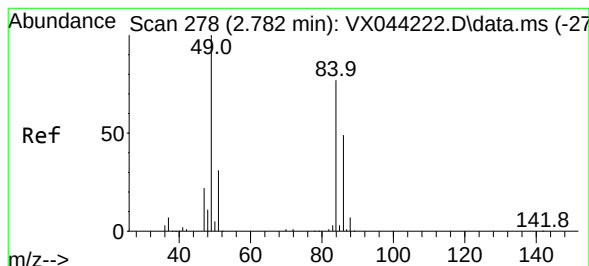
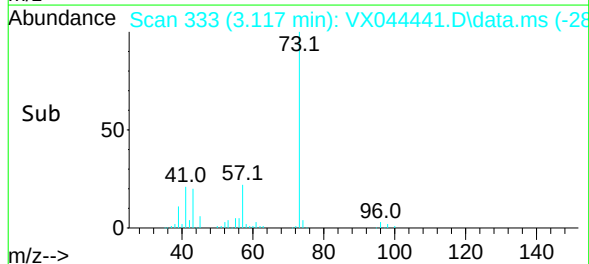
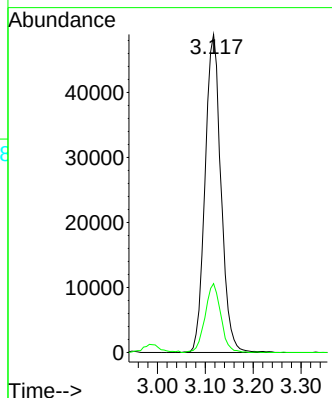
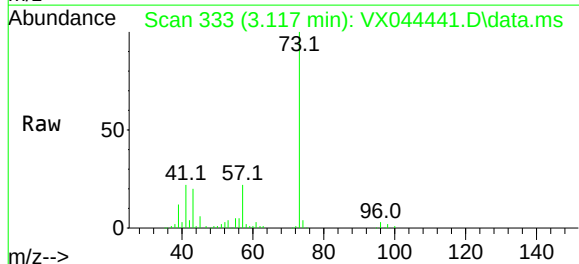
57 21.6 16.2 24.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#20

Methylene Chloride

Concen: 19.142 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt Ion: 84 Resp: 37654

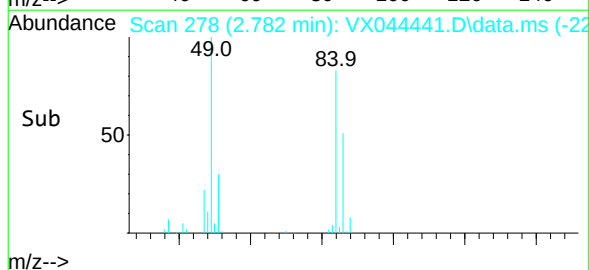
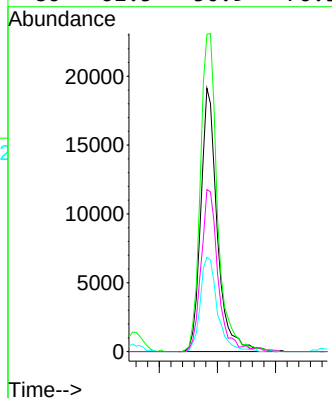
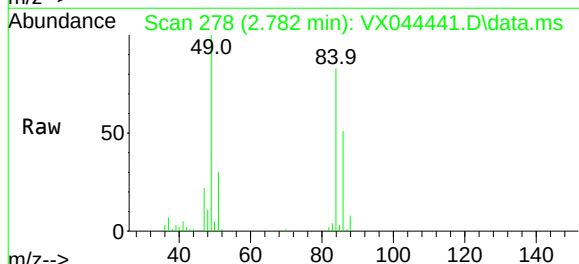
Ion Ratio Lower Upper

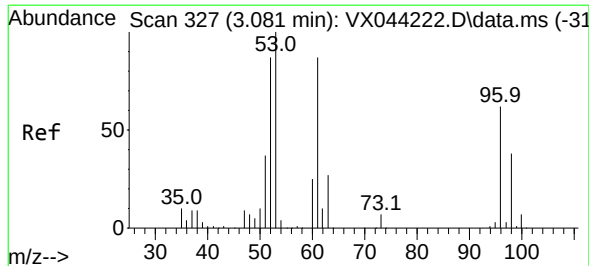
84 100

49 120.5 104.2 156.4

51 35.8 32.2 48.4

86 61.5 50.9 76.3





#21

trans-1,2-Dichloroethene

Concen: 18.688 ug/l

RT: 3.087 min Scan# 327

Delta R.T. 0.006 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion: 96 Resp: 32618

Ion Ratio Lower Upper

96 100

61 135.2 112.0 168.0

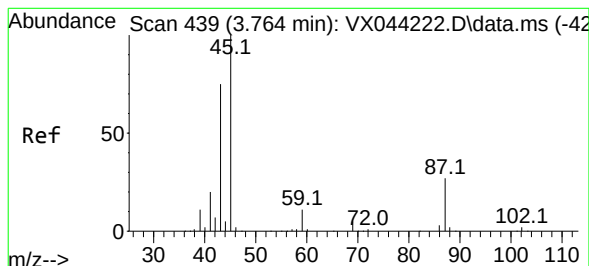
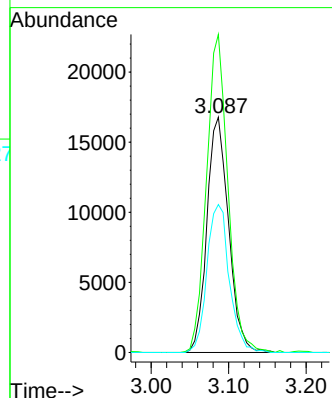
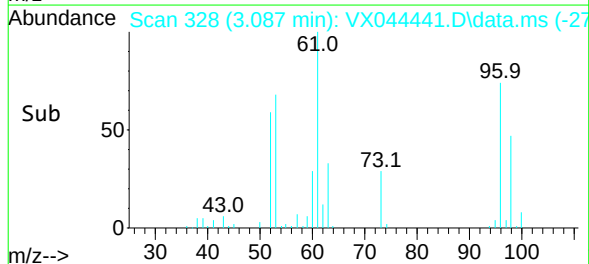
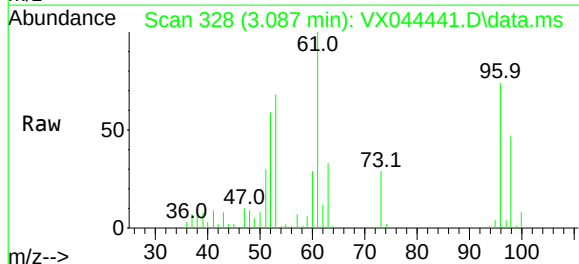
98 62.9 48.8 73.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#22

Diisopropyl ether

Concen: 17.968 ug/l

RT: 3.763 min Scan# 439

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt Ion: 45 Resp: 110674

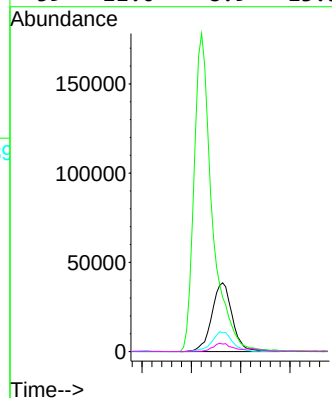
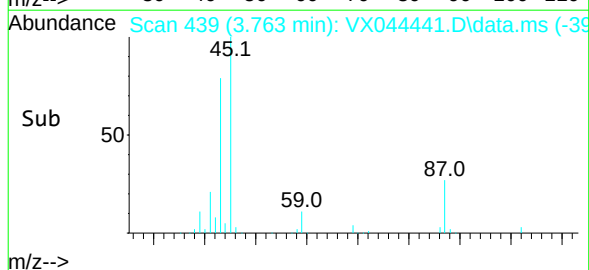
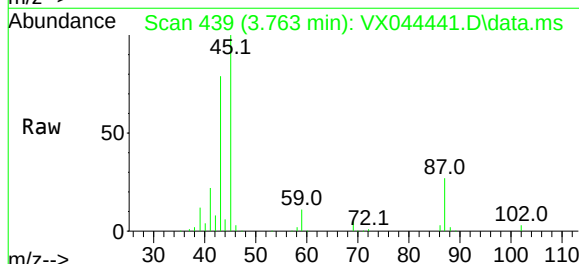
Ion Ratio Lower Upper

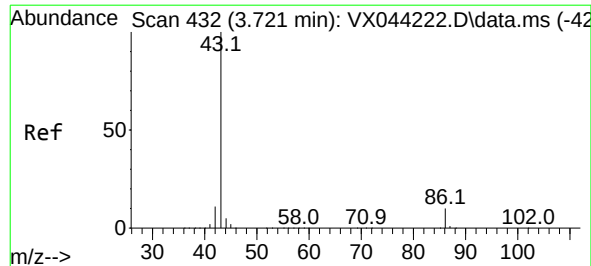
45 100

43 77.9 60.2 90.2

87 27.4 21.2 31.8

59 11.0 8.9 13.3





#23

Vinyl Acetate

Concen: 91.069 ug/l

RT: 3.721 min Scan# 43

Delta R.T. -0.000 min

Lab File: VX044441.D

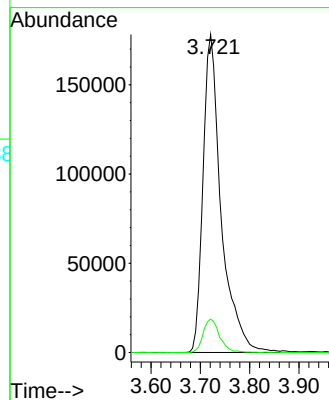
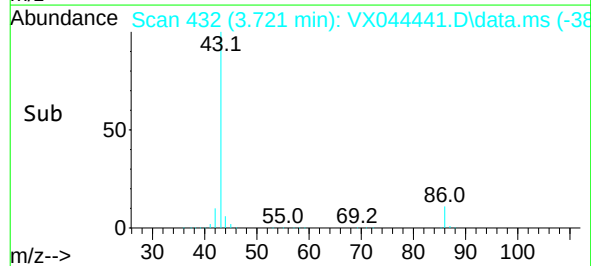
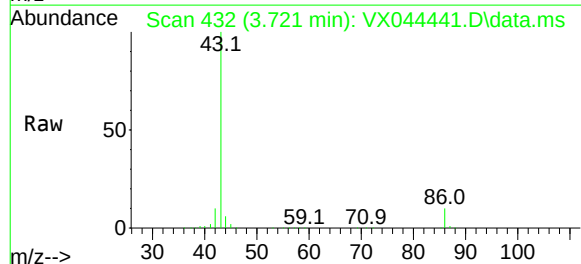
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 456052

Ion Ratio Lower Upper

43 100

86 10.5 8.2 12.2



Instrument :

MSVOA_X

ClientSampleId :

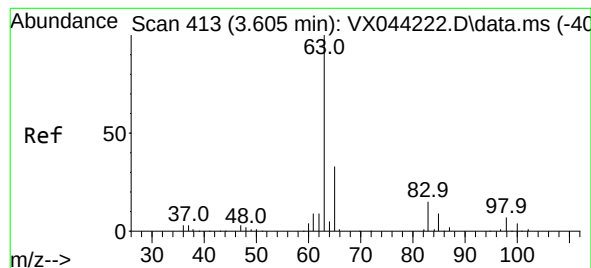
VX1220WBS01

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#24

1,1-Dichloroethane

Concen: 18.923 ug/l

RT: 3.605 min Scan# 413

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

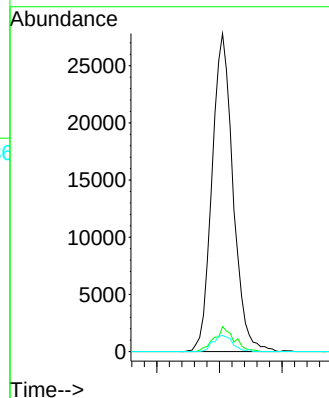
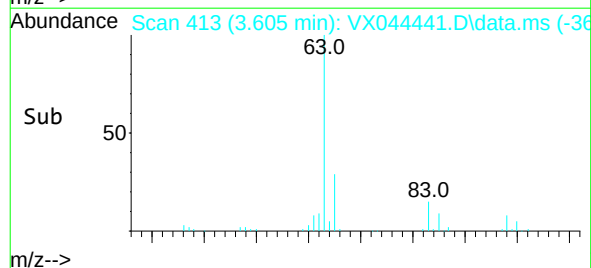
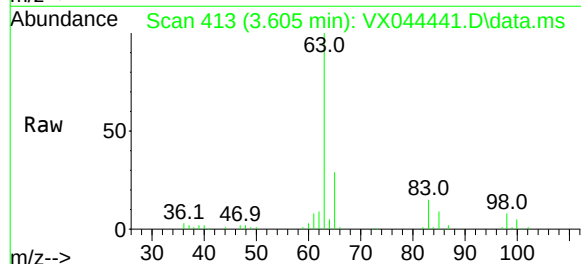
Tgt Ion: 63 Resp: 64973

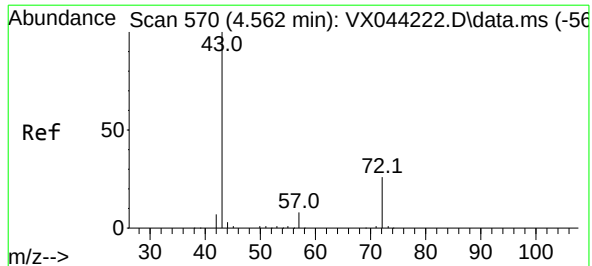
Ion Ratio Lower Upper

63 100

98 7.9 3.6 10.8

100 5.0 2.1 6.3





#25

2-Butanone

Concen: 83.289 ug/l

RT: 4.562 min Scan# 570

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion: 43 Resp: 124008

Ion Ratio Lower Upper

43 100

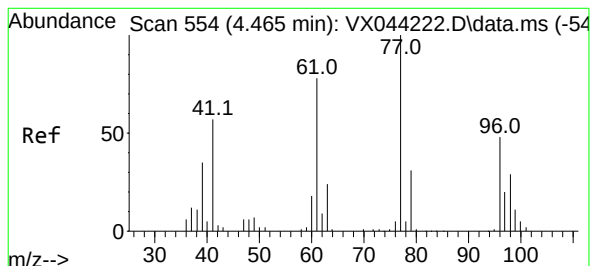
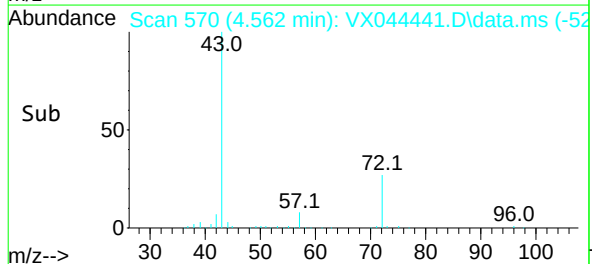
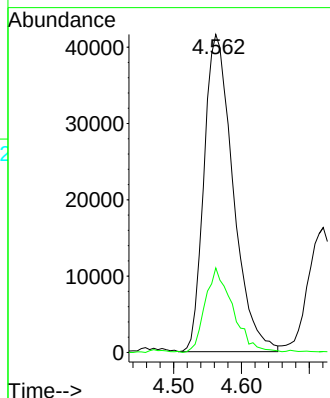
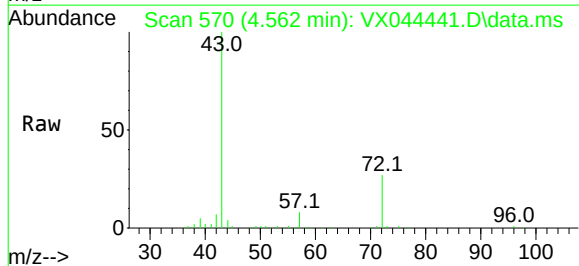
72 26.3 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#26

2,2-Dichloropropane

Concen: 18.380 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.006 min

Lab File: VX044441.D

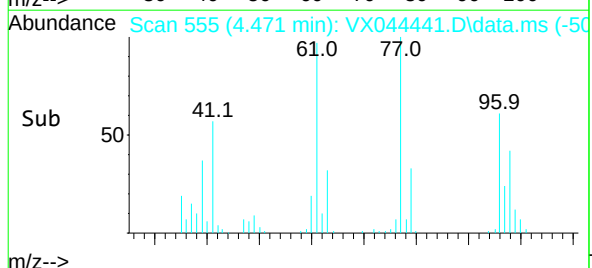
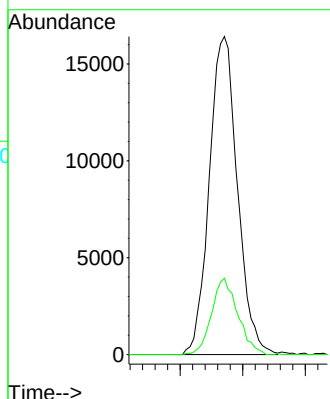
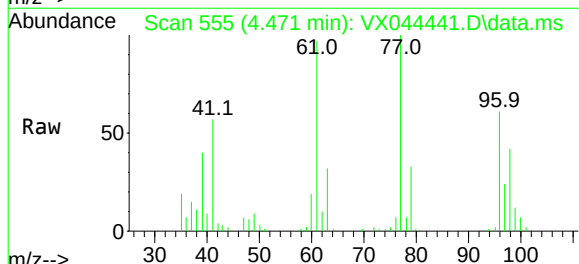
Acq: 20 Dec 2024 10:46

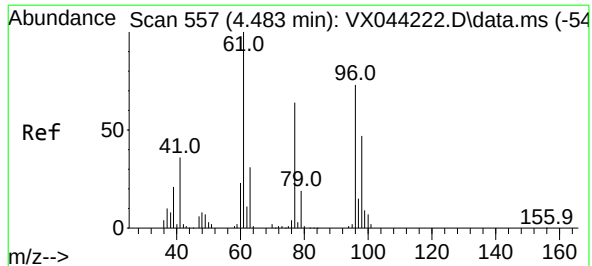
Tgt Ion: 77 Resp: 51269

Ion Ratio Lower Upper

77 100

97 22.3 10.7 32.1





#27

cis-1,2-Dichloroethene

Concen: 17.974 ug/l

RT: 4.489 min Scan# 557

Delta R.T. 0.006 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion: 96 Resp: 39842

Ion Ratio Lower Upper

96 100

61 144.2 0.0 299.0

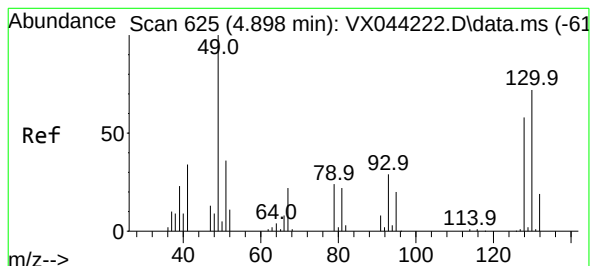
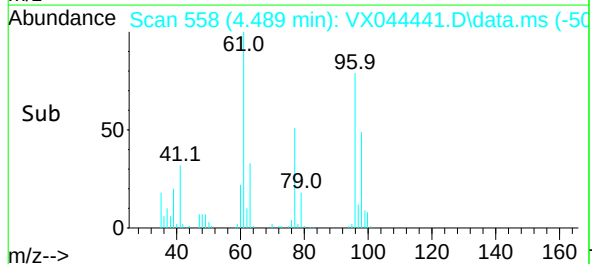
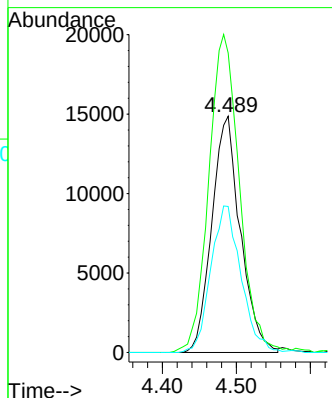
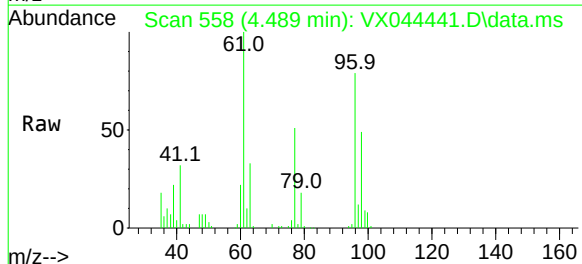
98 65.7 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#28

Bromochloromethane

Concen: 15.760 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.006 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

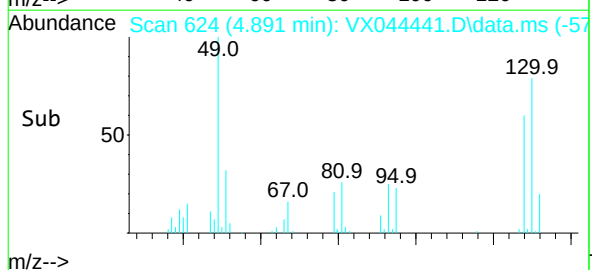
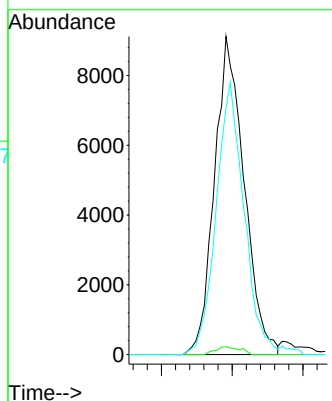
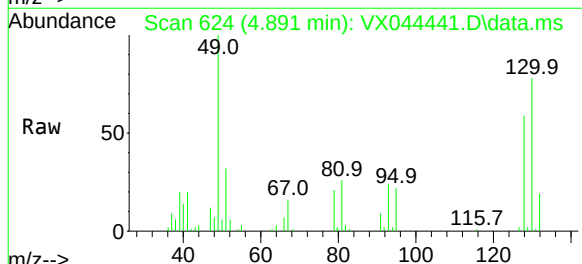
Tgt Ion: 49 Resp: 26535

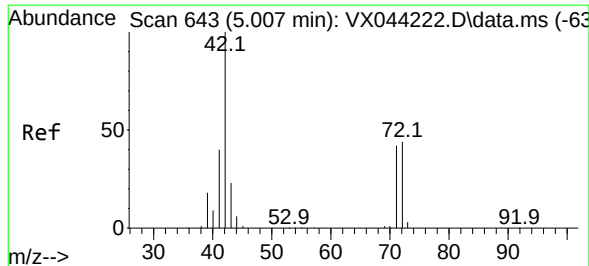
Ion Ratio Lower Upper

49 100

129 2.0 0.0 4.2

130 80.3 62.1 93.1





#29

Tetrahydrofuran

Concen: 84.947 ug/l

RT: 5.007 min Scan# 64

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

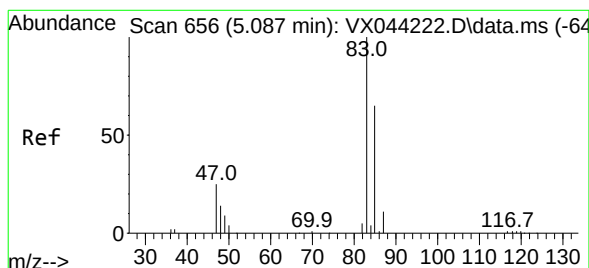
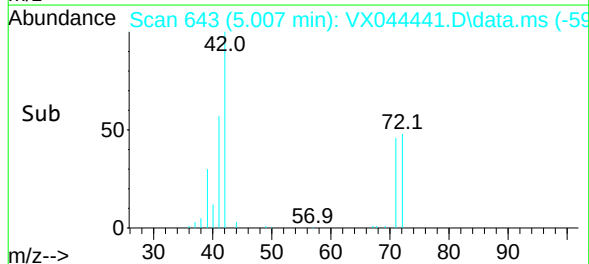
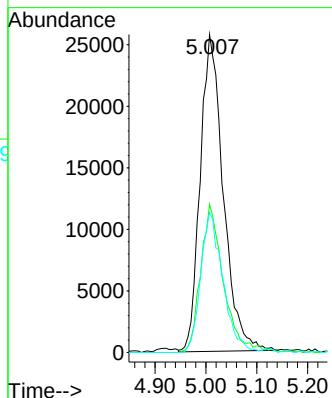
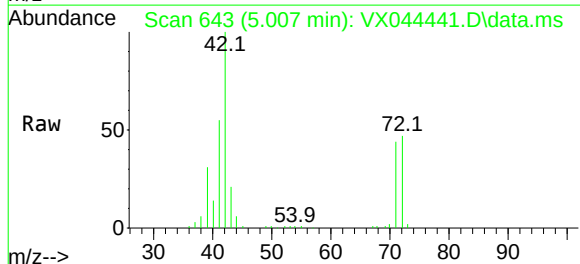
Tgt Ion:	42	Resp:	81181
Ion	Ratio	Lower	Upper
42	100		
72	45.9	37.0	55.6
71	42.5	33.6	50.4

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

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APPROVEDReviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

#30

Chloroform

Concen: 17.686 ug/l

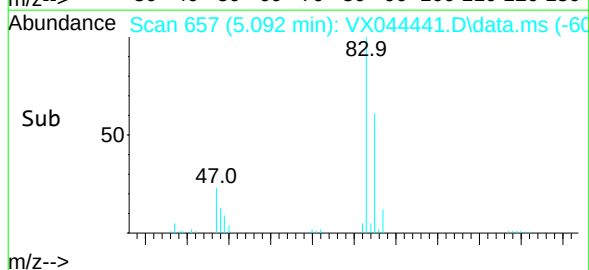
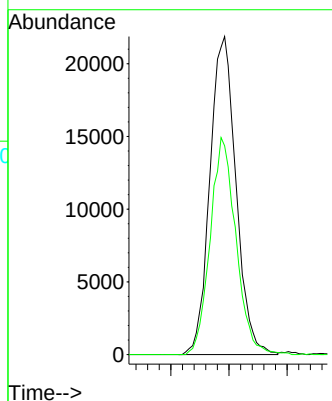
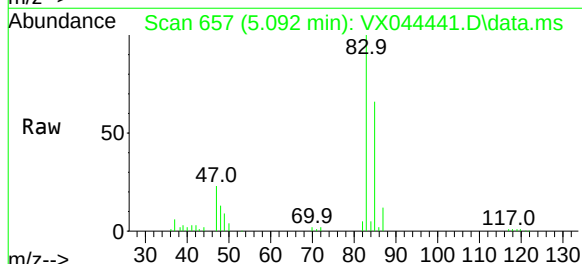
RT: 5.092 min Scan# 657

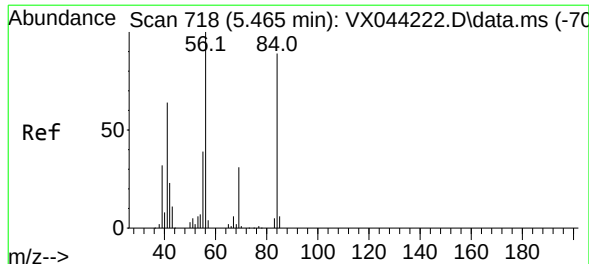
Delta R.T. 0.006 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt Ion:	83	Resp:	68227
Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.6	77.4





#31

Cyclohexane

Concen: 17.628 ug/l

RT: 5.470 min Scan# 718

Delta R.T. 0.006 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion: 56 Resp: 48875

Ion Ratio Lower Upper

56 100

69 28.1 24.7 37.1

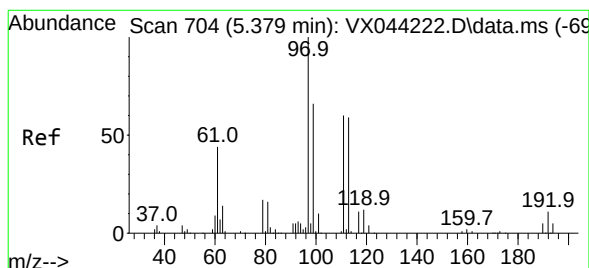
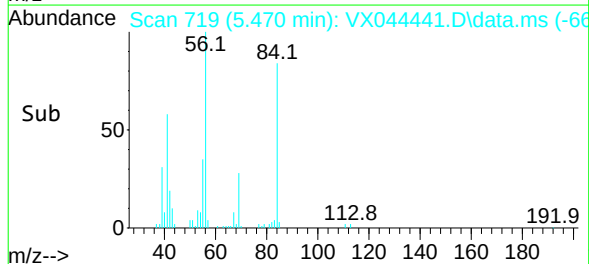
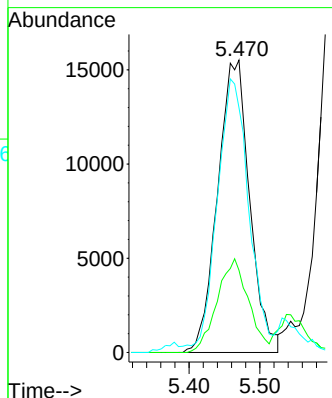
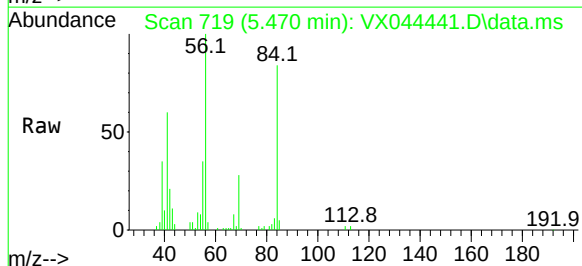
84 81.7 71.0 106.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#32

1,1,1-Trichloroethane

Concen: 17.459 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.006 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

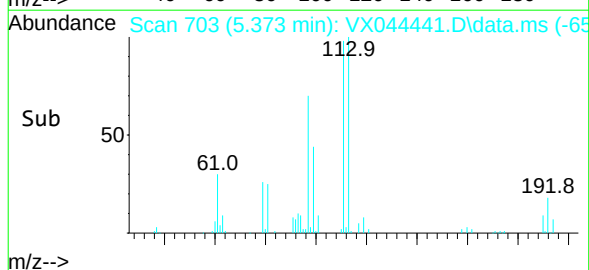
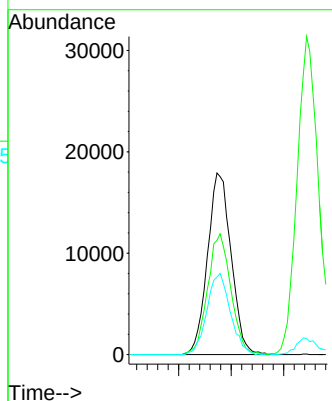
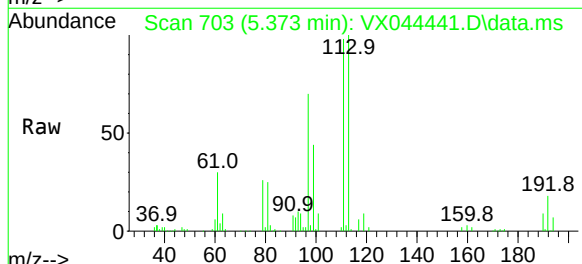
Tgt Ion: 97 Resp: 55907

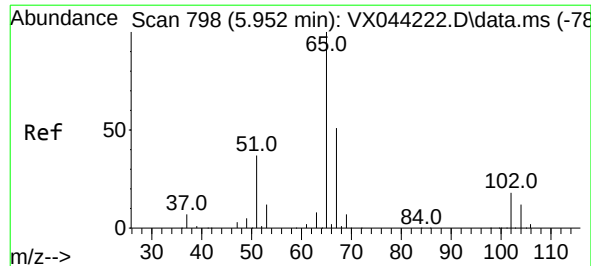
Ion Ratio Lower Upper

97 100

99 65.6 50.8 76.2

61 44.3 35.2 52.8





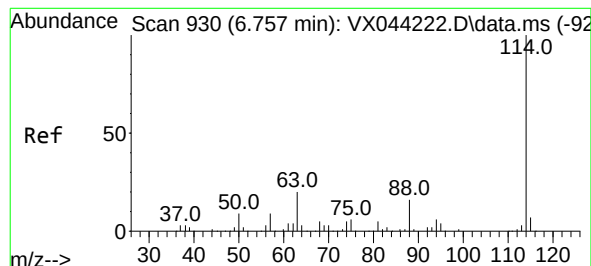
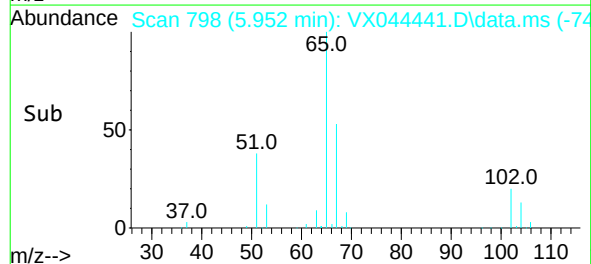
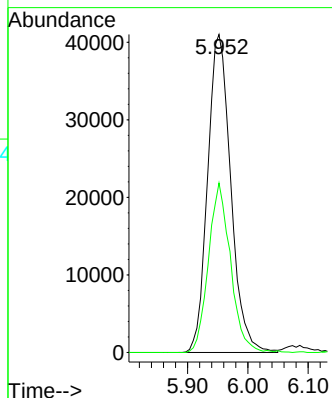
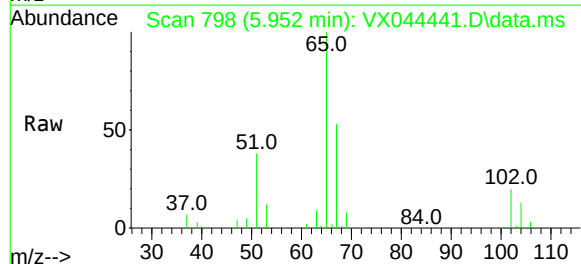
#33
1,2-Dichloroethane-d4
Concen: 42.700 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 65 Resp: 109691
Ion Ratio Lower Upper
65 100
67 50.7 0.0 101.6

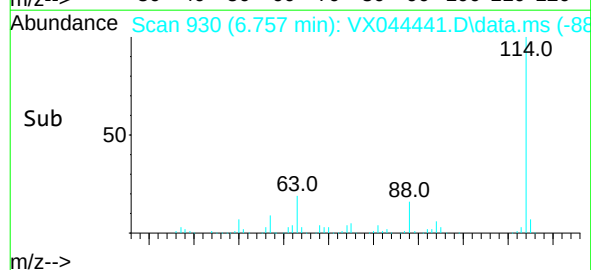
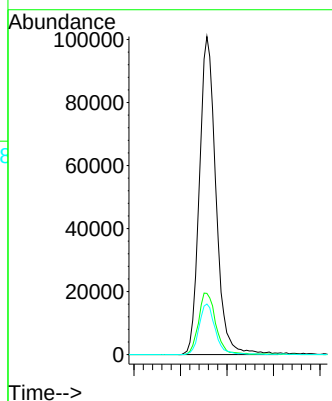
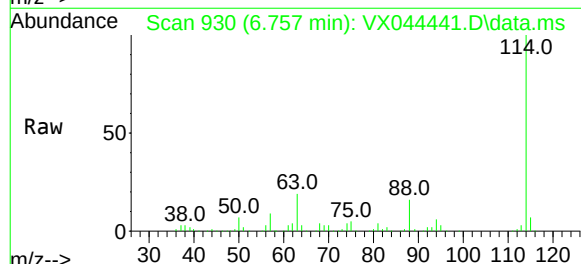
Manual Integrations
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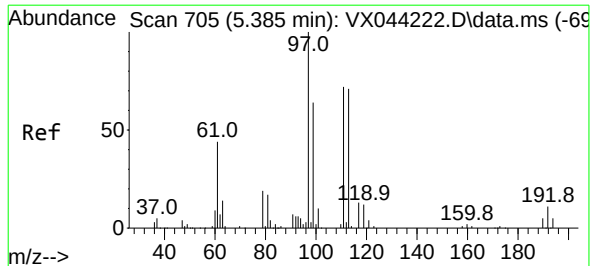
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:114 Resp: 249173
Ion Ratio Lower Upper
114 100
63 19.2 0.0 40.6
88 15.9 0.0 31.8





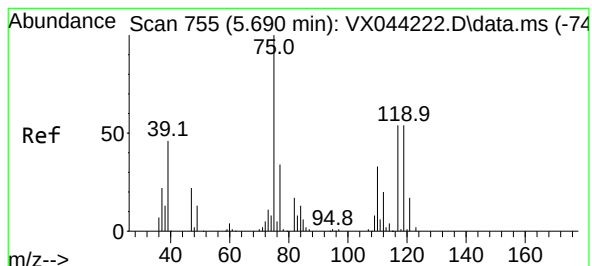
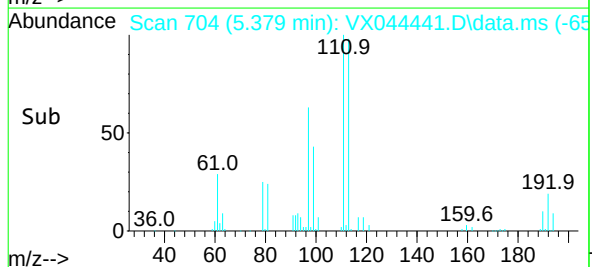
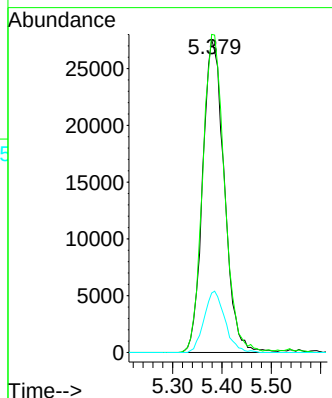
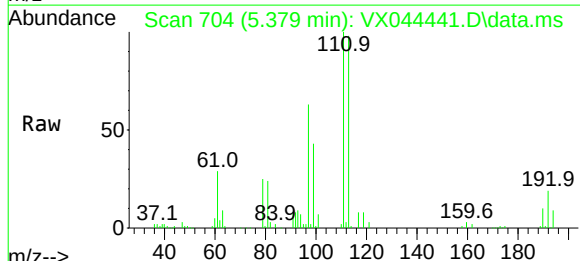
#35
Dibromofluoromethane
Concen: 48.541 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.4	80.4	120.6
192	18.9	13.3	19.9

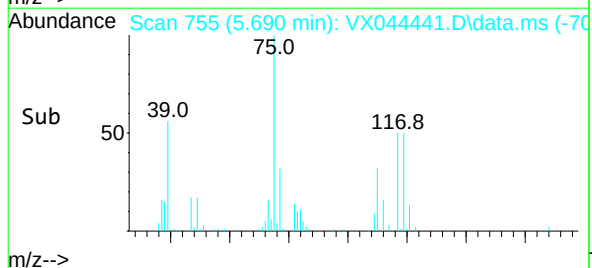
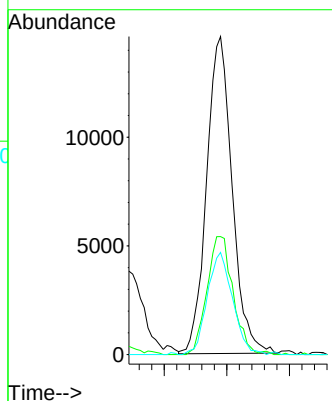
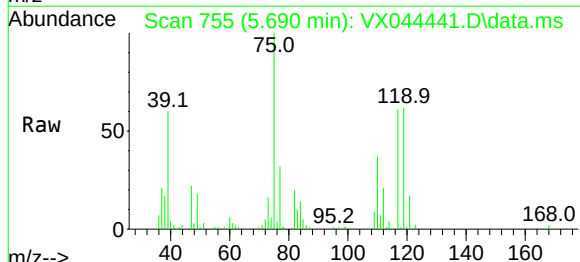
Manual Integrations
APPROVED

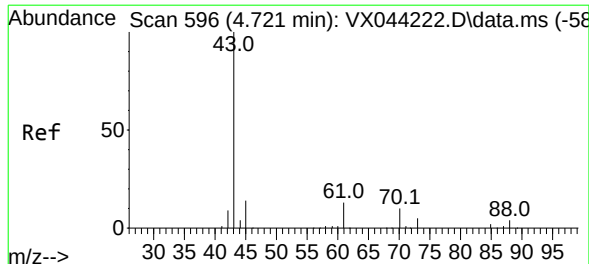
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#36
1,1-Dichloropropene
Concen: 18.566 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.6	17.3	51.7
77	31.9	25.4	38.0





#37

Ethyl Acetate

Concen: 17.412 ug/l

RT: 4.721 min Scan# 596

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt Ion:	43	Resp:	48014
Ion	Ratio	Lower	Upper
43	100		
61	14.3	9.8	14.8
70	11.0	7.7	11.5

Instrument :

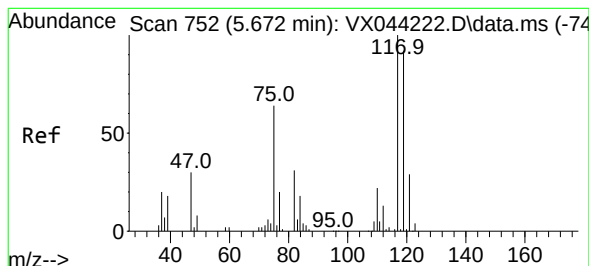
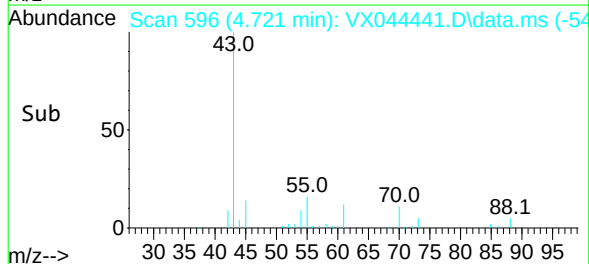
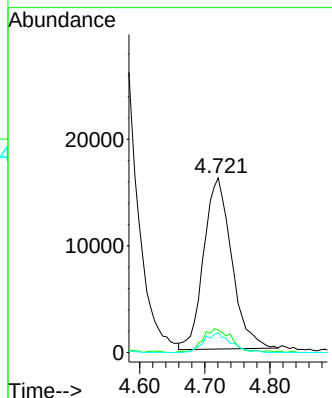
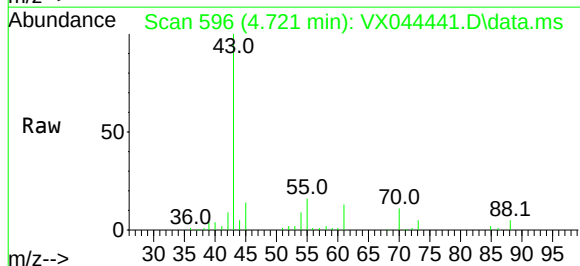
MSVOA_X

ClientSampleId :

VX1220WBS01

**Manual Integrations
APPROVED**

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#38

Carbon Tetrachloride

Concen: 18.898 ug/l

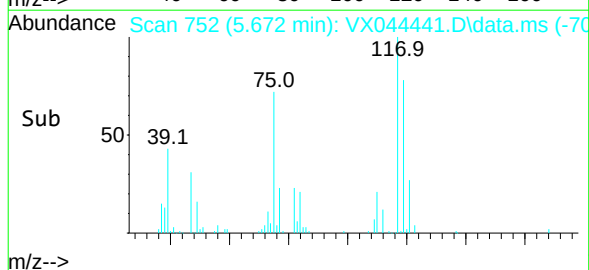
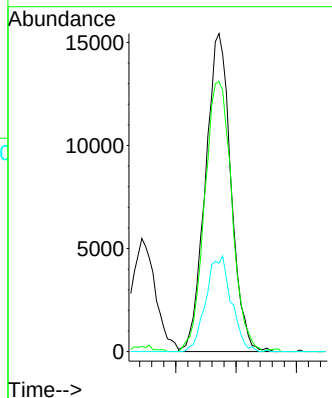
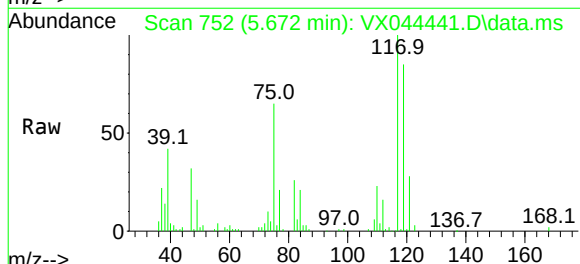
RT: 5.672 min Scan# 752

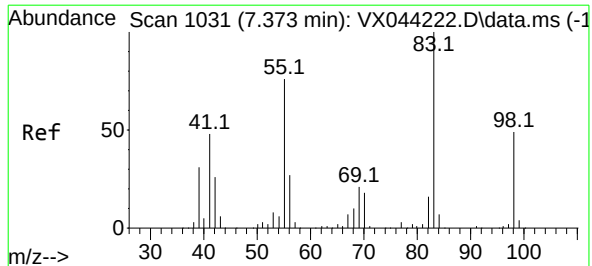
Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt Ion:	117	Resp:	45386
Ion	Ratio	Lower	Upper
117	100		
119	84.9	74.2	111.4
121	27.7	23.0	34.6





#39

Methylcyclohexane

Concen: 19.332 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion: 83 Resp: 51554

Ion Ratio Lower Upper

83 100

55 76.1 60.7 91.1

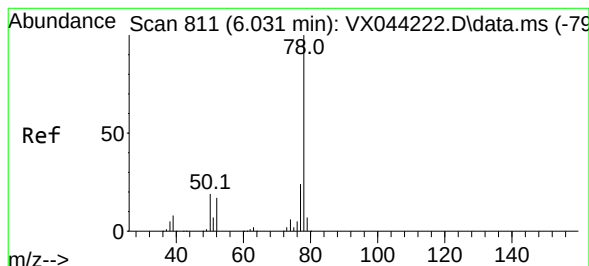
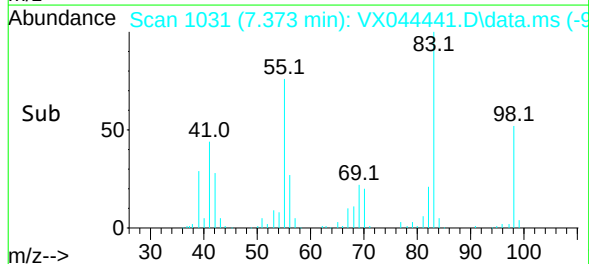
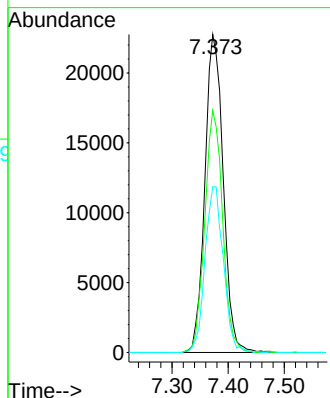
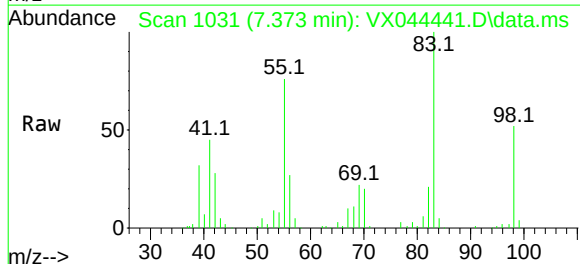
98 52.1 38.9 58.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#40

Benzene

Concen: 20.358 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX044441.D

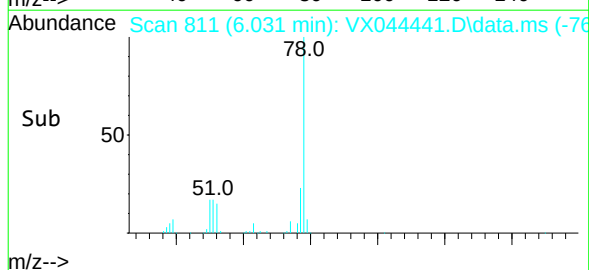
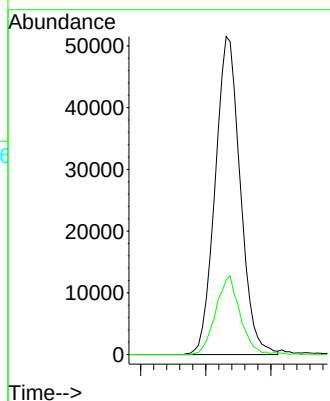
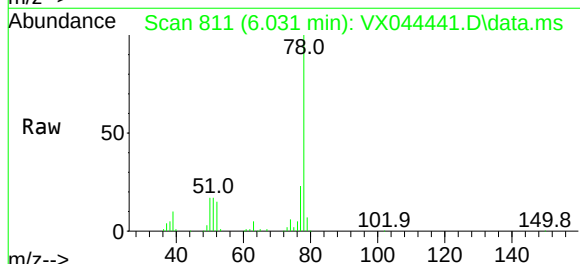
Acq: 20 Dec 2024 10:46

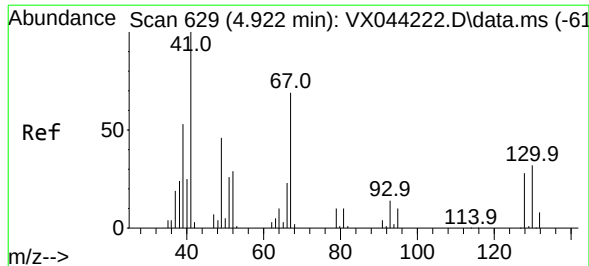
Tgt Ion: 78 Resp: 137885

Ion Ratio Lower Upper

78 100

77 23.5 19.3 28.9





#41

Methacrylonitrile

Concen: 18.343 ug/l

RT: 4.922 min Scan# 629

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt Ion: 41	Resp: 26859
Ion Ratio	Lower Upper
41 100	
39 56.0	44.2 66.4
67 72.8	57.2 85.8
52 34.0	24.6 37.0

Instrument :

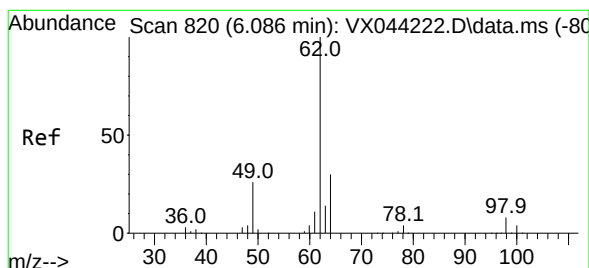
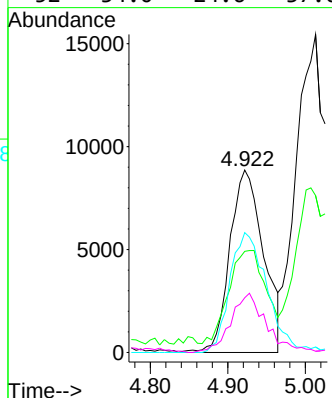
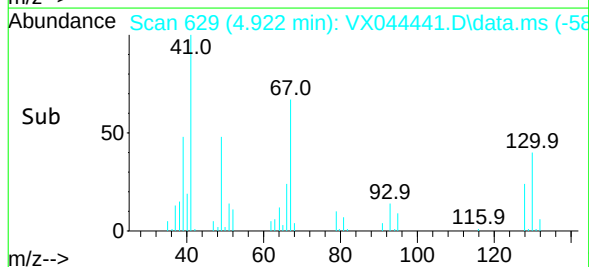
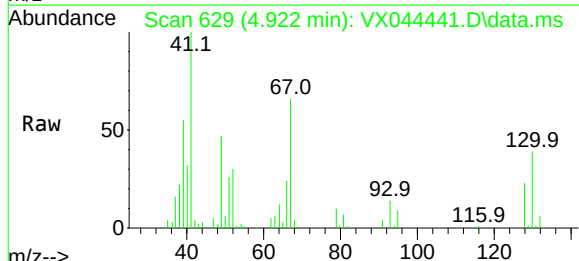
MSVOA_X

ClientSampleId :

VX1220WBS01

**Manual Integrations
APPROVED**

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#42

1,2-Dichloroethane

Concen: 19.207 ug/l

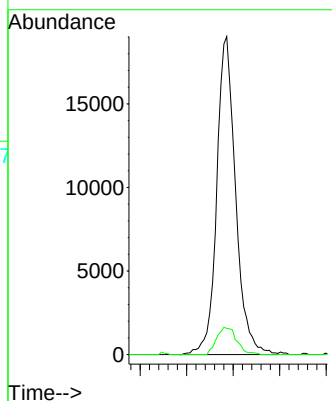
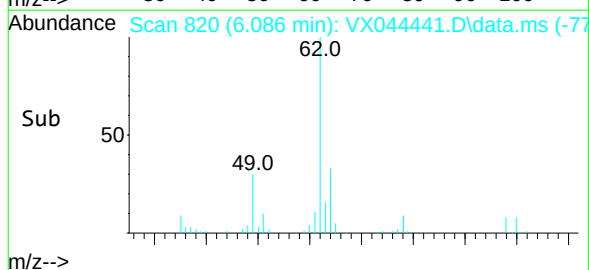
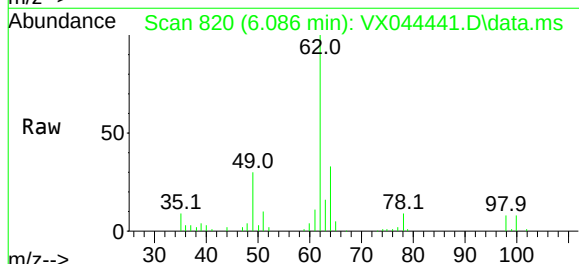
RT: 6.086 min Scan# 820

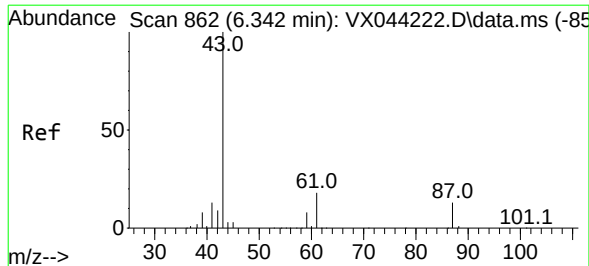
Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt Ion: 62	Resp: 53588
Ion Ratio	Lower Upper
62 100	
98 9.1	0.0 15.8





#43

Isopropyl Acetate

Concen: 18.378 ug/l

RT: 6.342 min Scan# 862

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt Ion:	43	Resp:	79207
Ion	Ratio	Lower	Upper
43	100		
61	18.0	14.2	21.2
87	12.9	10.2	15.2

Instrument :

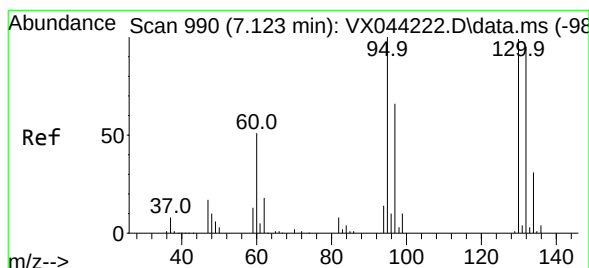
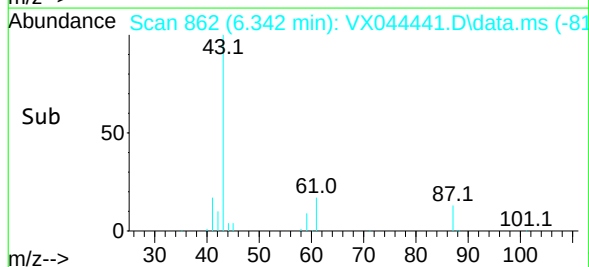
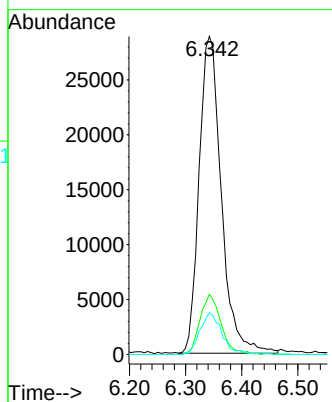
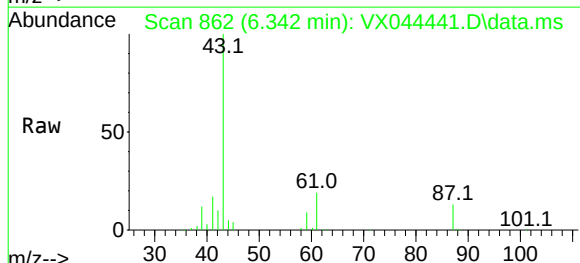
MSVOA_X

ClientSampleId :

VX1220WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#44

Trichloroethene

Concen: 19.902 ug/l

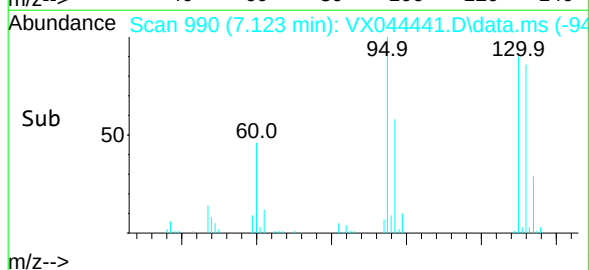
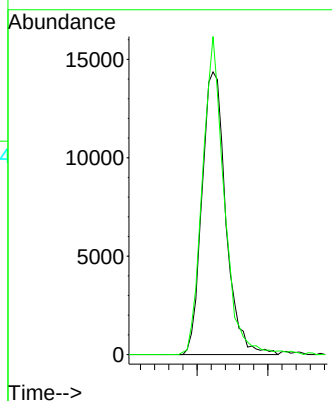
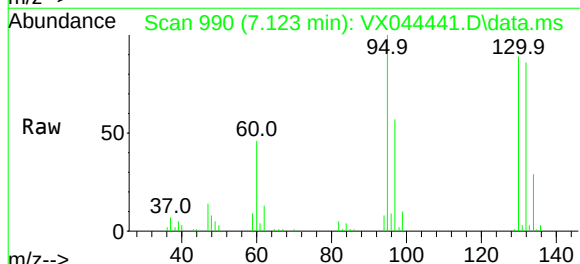
RT: 7.123 min Scan# 990

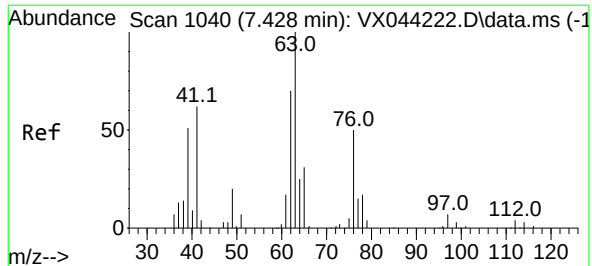
Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt Ion:	130	Resp:	33615
Ion	Ratio	Lower	Upper
130	100		
95	112.5	0.0	201.4





#45

1,2-Dichloropropane

Concen: 19.077 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion: 63 Resp: 33011

Ion Ratio Lower Upper

63 100

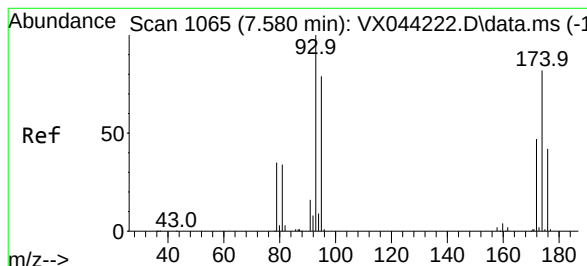
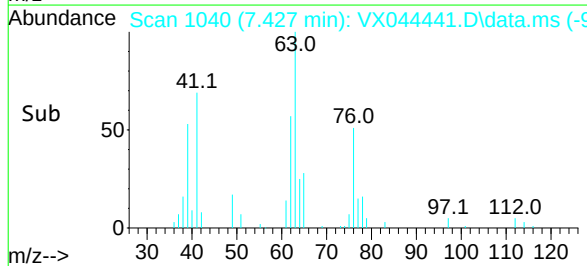
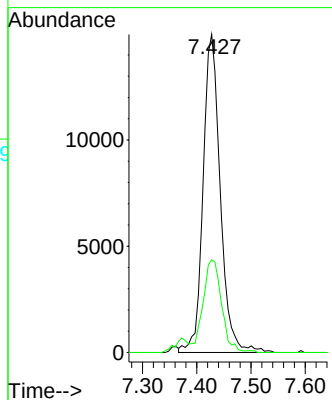
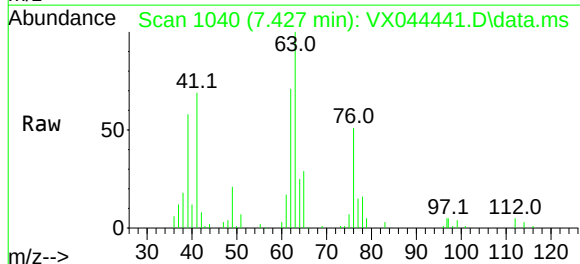
65 29.1 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#46

Dibromomethane

Concen: 19.737 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

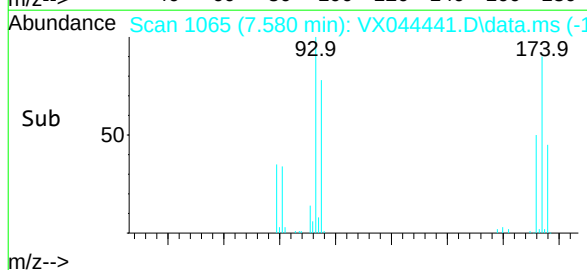
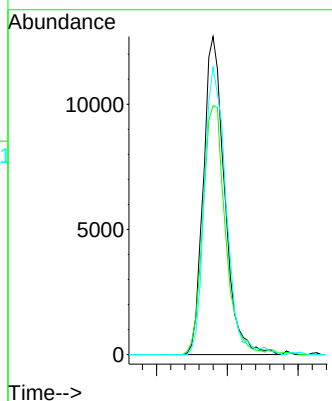
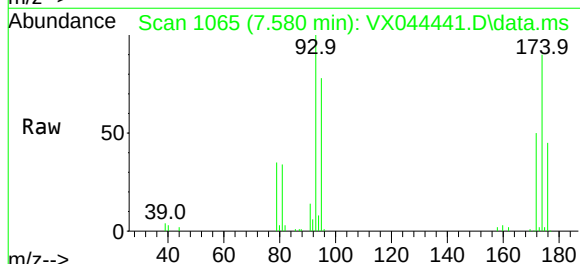
Tgt Ion: 93 Resp: 26495

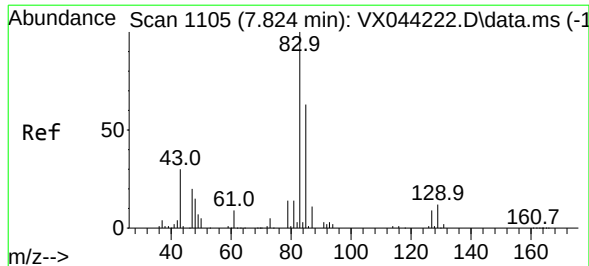
Ion Ratio Lower Upper

93 100

95 82.5 65.4 98.2

174 92.4 67.9 101.9





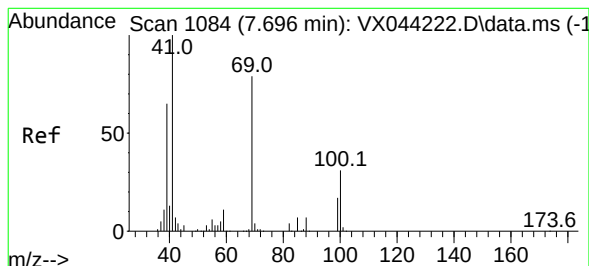
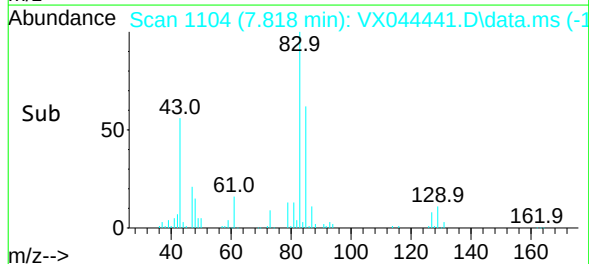
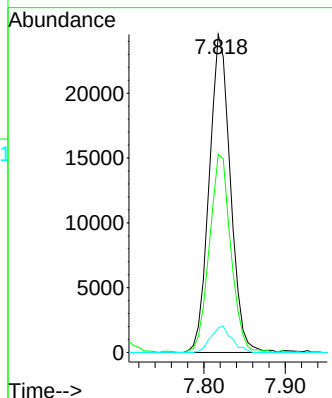
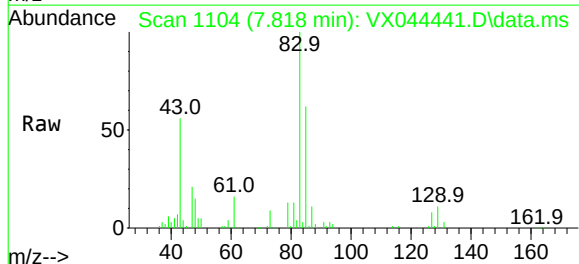
#47
Bromodichloromethane
Concen: 19.132 ug/l
RT: 7.818 min Scan# 1105
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 83 Resp: 44357
Ion Ratio Lower Upper
83 100
85 62.2 50.6 75.8
127 7.7 7.3 10.9

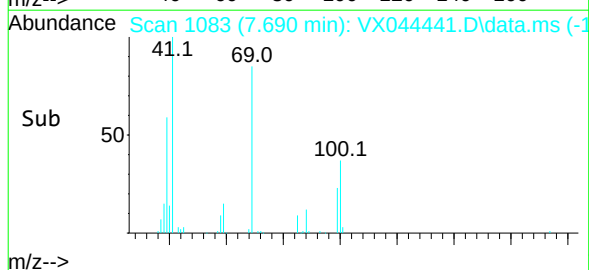
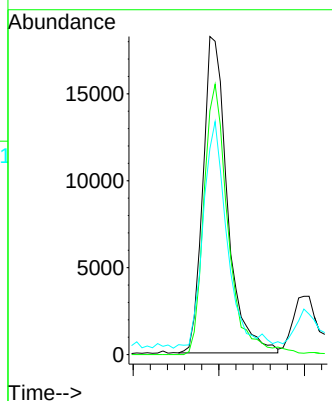
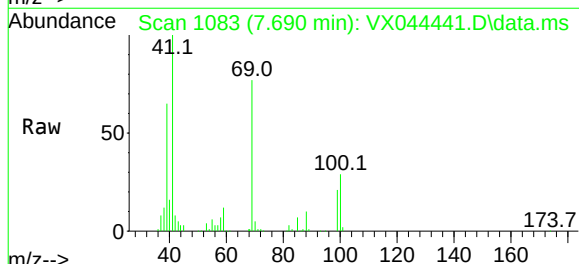
Manual Integrations
APPROVED

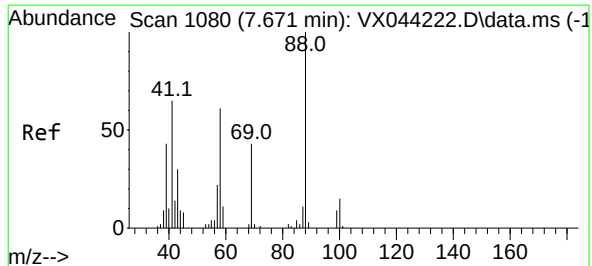
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#48
Methyl methacrylate
Concen: 17.281 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 41 Resp: 36154
Ion Ratio Lower Upper
41 100
69 84.8 62.4 93.6
39 70.2 53.3 79.9





#49

1,4-Dioxane

Concen: 292.846 ug/l

RT: 7.671 min Scan# 1080

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion: 88 Resp: 10158

Ion Ratio Lower Upper

88 100

43 36.0 27.1 40.7

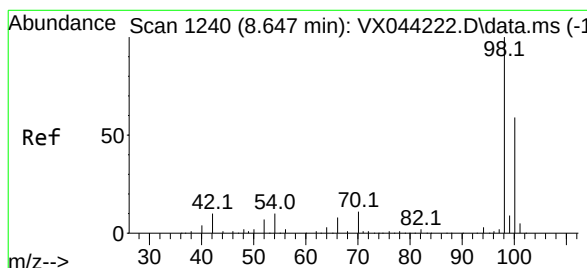
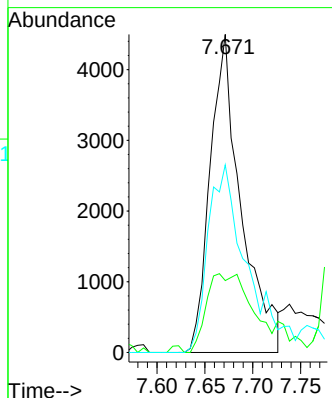
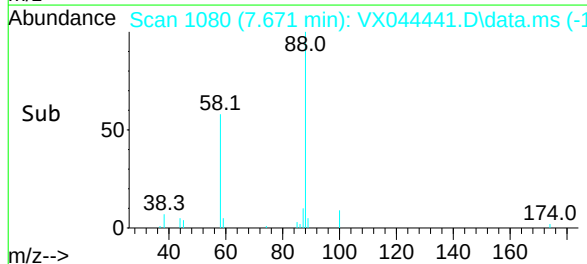
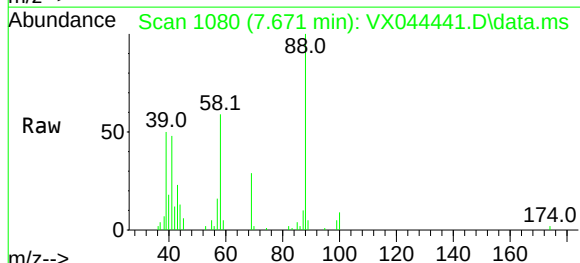
58 73.5 41.0 61.4#

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#50

Toluene-d8

Concen: 48.669 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX044441.D

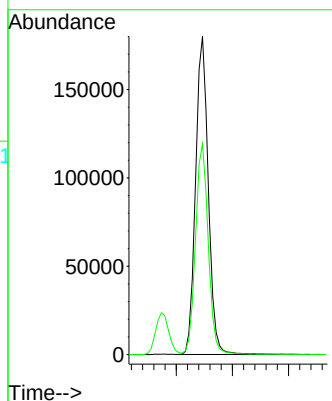
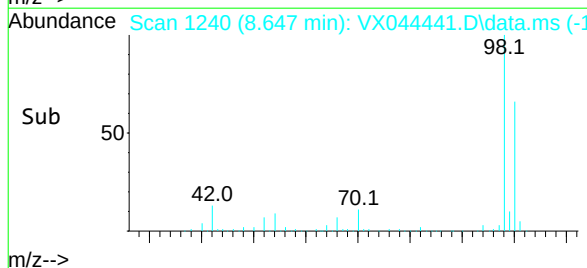
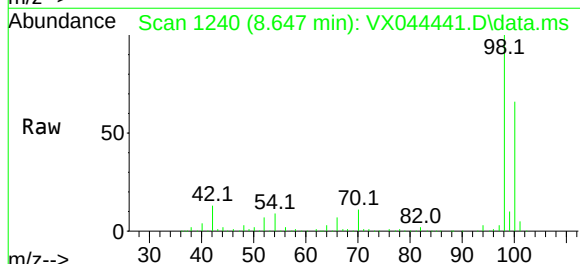
Acq: 20 Dec 2024 10:46

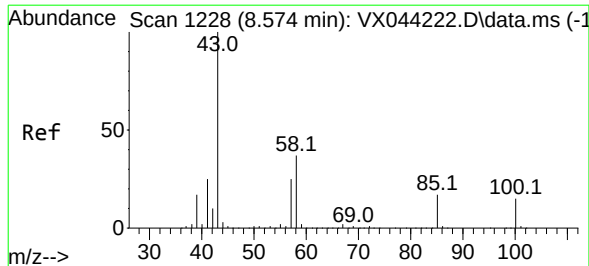
Tgt Ion: 98 Resp: 283358

Ion Ratio Lower Upper

98 100

100 66.4 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 92.373 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 255984

Ion Ratio Lower Upper

43 100

58 37.2 29.4 44.0

Instrument :

MSVOA_X

ClientSampleId :

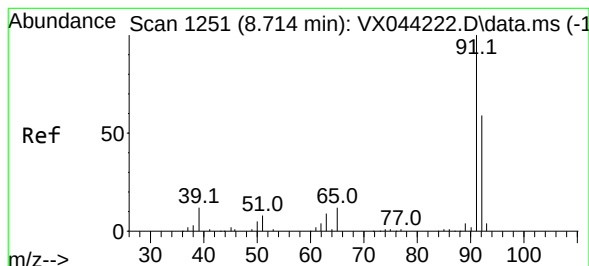
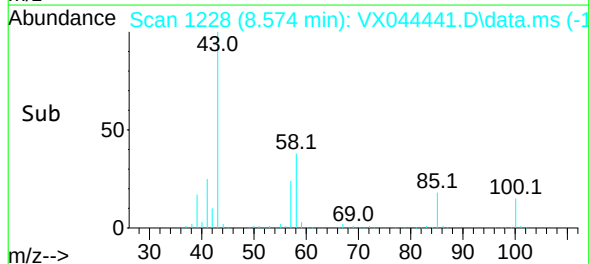
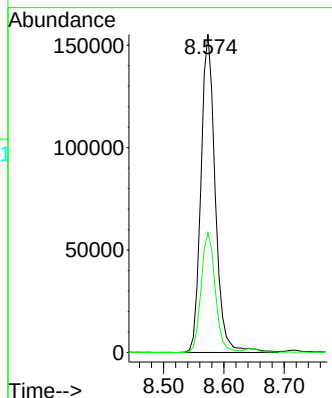
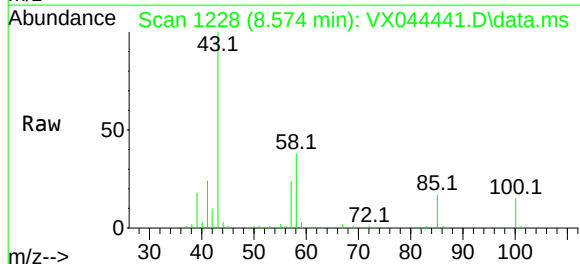
VX1220WBS01

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#52

Toluene

Concen: 19.504 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. -0.000 min

Lab File: VX044441.D

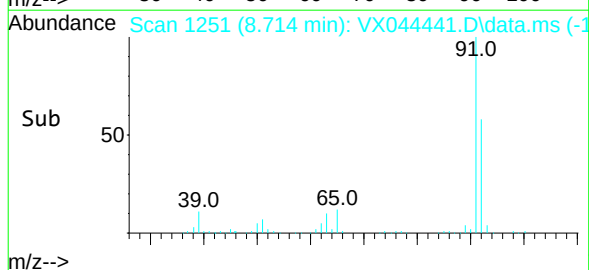
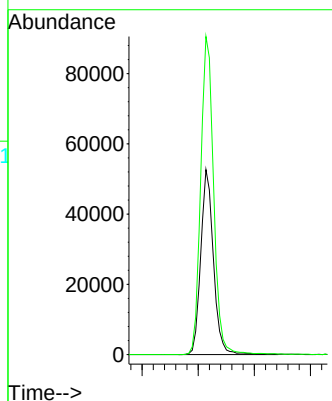
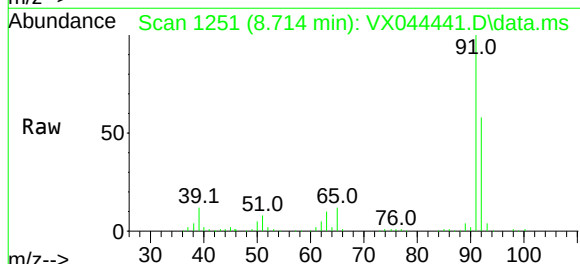
Acq: 20 Dec 2024 10:46

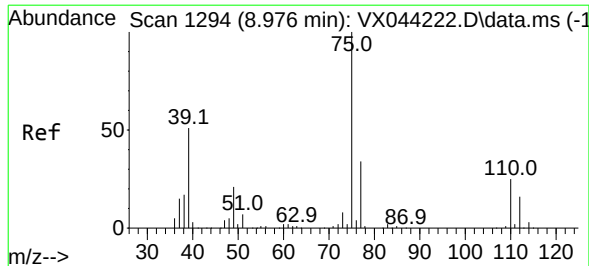
Tgt Ion: 92 Resp: 82957

Ion Ratio Lower Upper

92 100

91 175.4 137.0 205.6





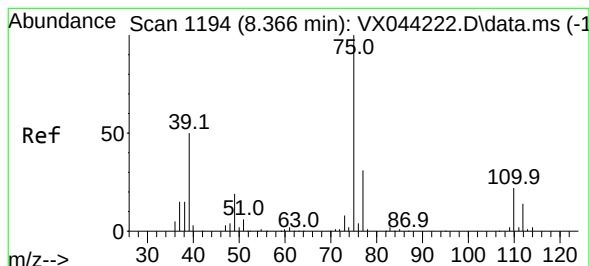
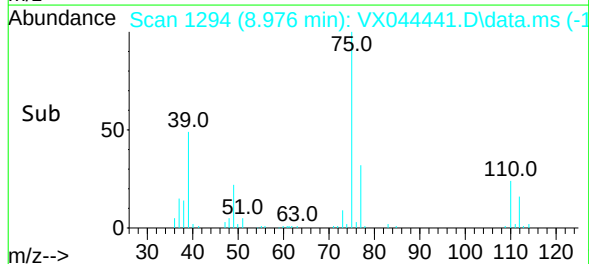
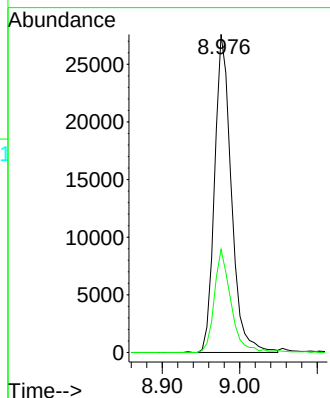
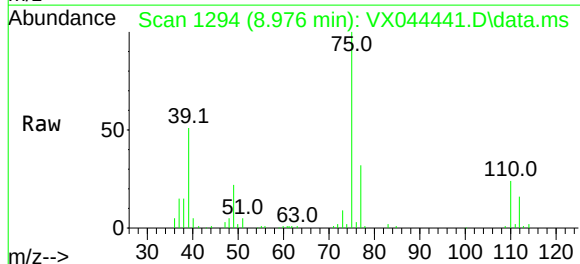
#53
t-1,3-Dichloropropene
Concen: 17.860 ug/l
RT: 8.976 min Scan# 1294
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 75 Resp: 41417
Ion Ratio Lower Upper
75 100
77 32.4 27.2 40.8

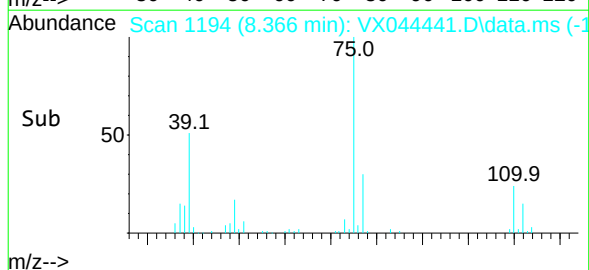
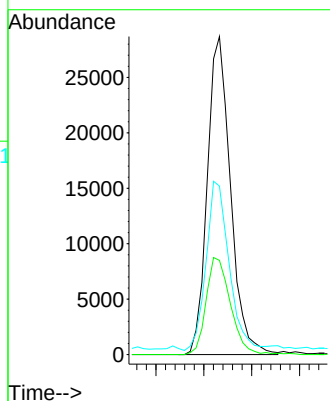
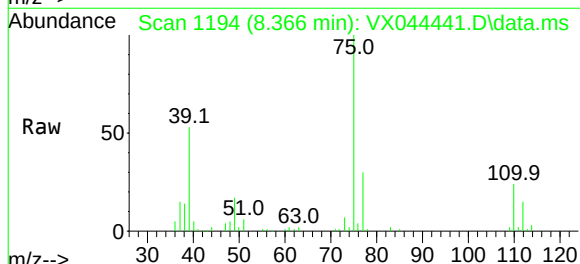
Manual Integrations
APPROVED

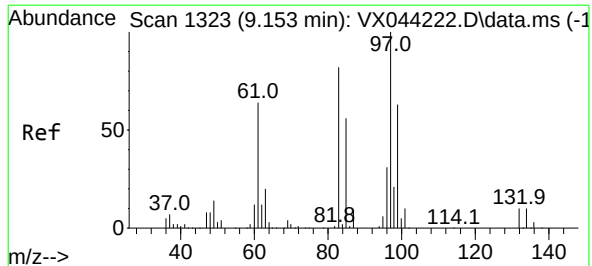
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#54
cis-1,3-Dichloropropene
Concen: 19.157 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

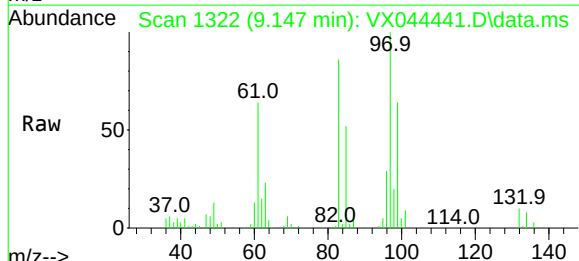
Tgt Ion: 75 Resp: 48359
Ion Ratio Lower Upper
75 100
77 29.6 24.7 37.1
39 51.1 40.3 60.5





#55
1,1,2-Trichloroethane
Concen: 20.801 ug/l
RT: 9.147 min Scan# 1323
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

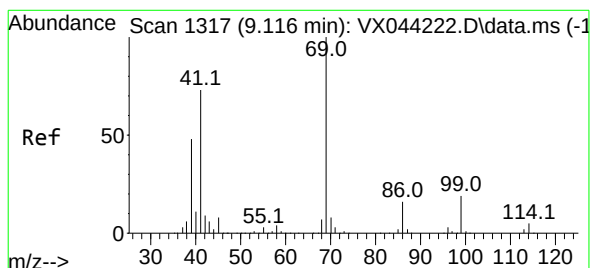
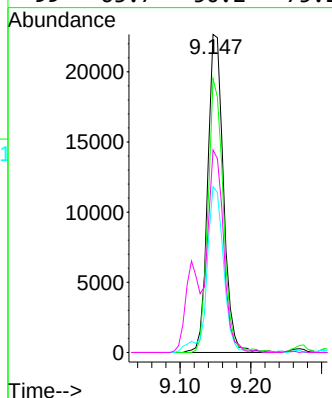
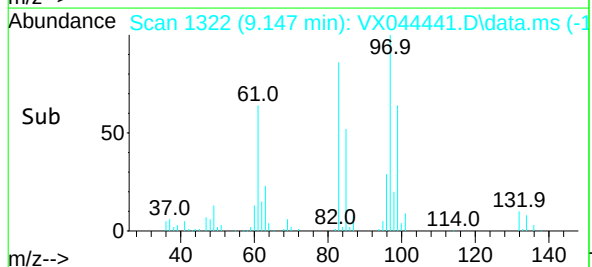
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01



Tgt Ion	Ratio	Lower	Upper
97	100		
83	86.1	65.3	97.9
85	51.7	44.6	67.0
99	63.7	50.2	75.2

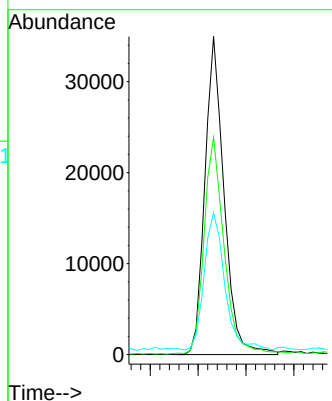
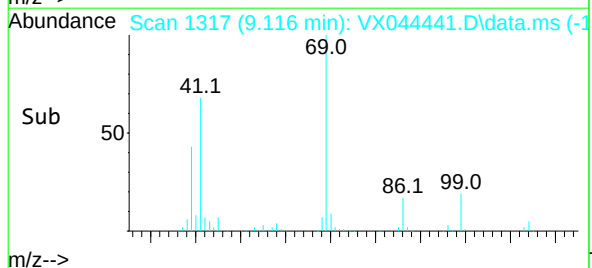
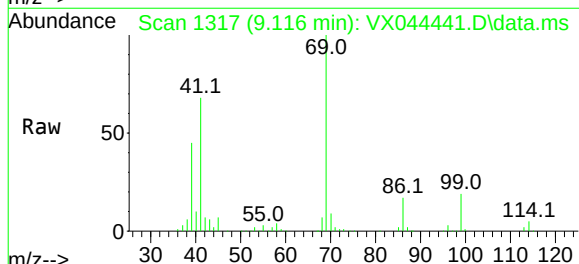
Manual Integrations
APPROVED

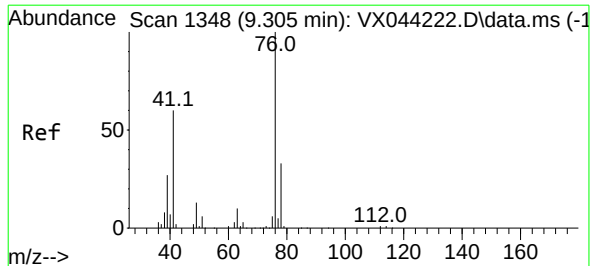
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#56
Ethyl methacrylate
Concen: 18.235 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

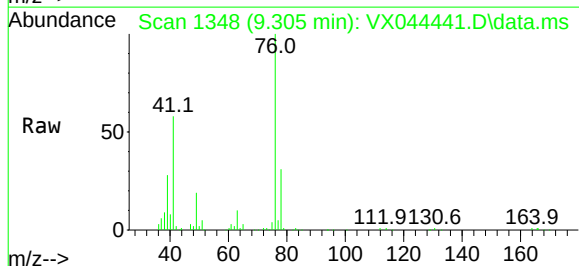
Tgt Ion	Ratio	Lower	Upper
69	100		
41	71.0	56.6	85.0
39	46.3	37.4	56.0





#57
1,3-Dichloropropane
Concen: 19.260 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

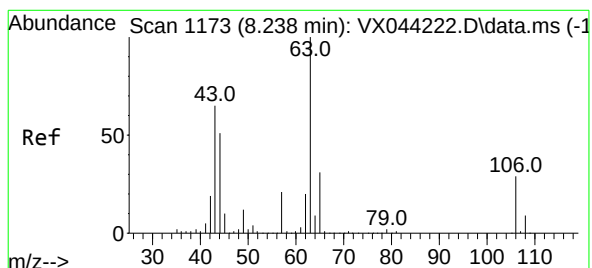
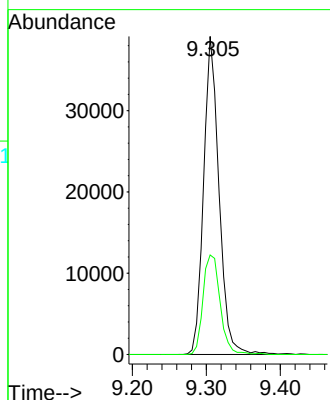
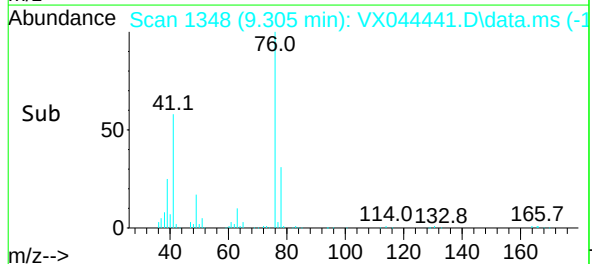
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01



Tgt Ion: 76 Resp: 56644
Ion Ratio Lower Upper
76 100
78 34.8 26.5 39.7

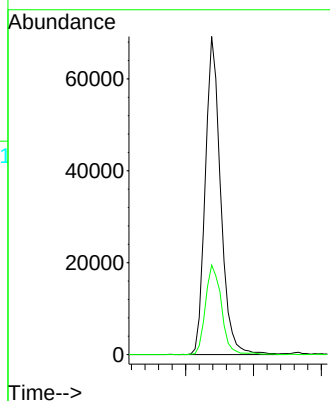
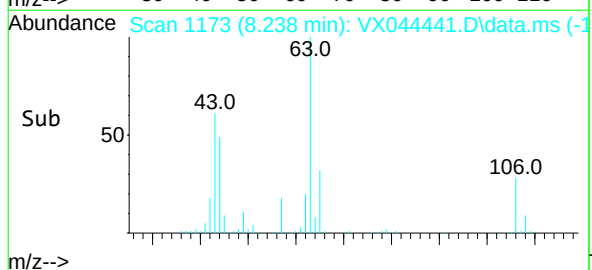
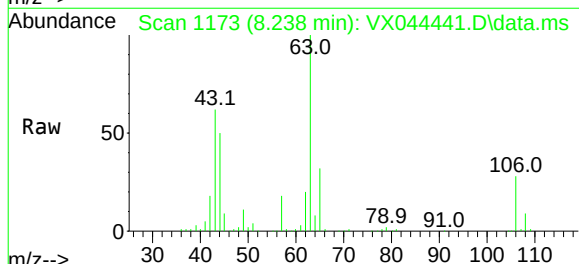
Manual Integrations
APPROVED

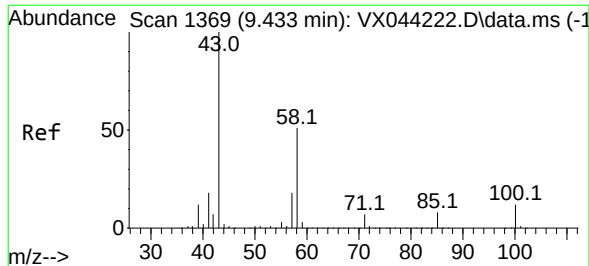
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#58
2-Chloroethyl Vinyl ether
Concen: 81.033 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 63 Resp: 109022
Ion Ratio Lower Upper
63 100
106 29.3 22.8 34.2





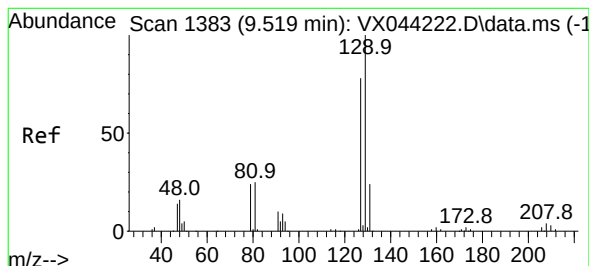
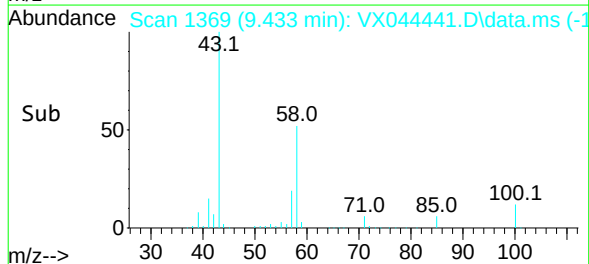
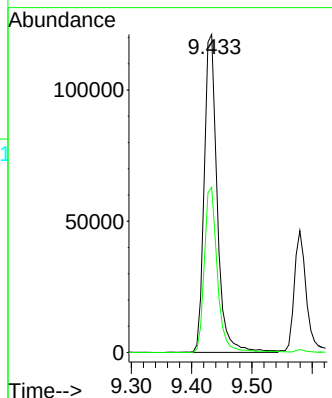
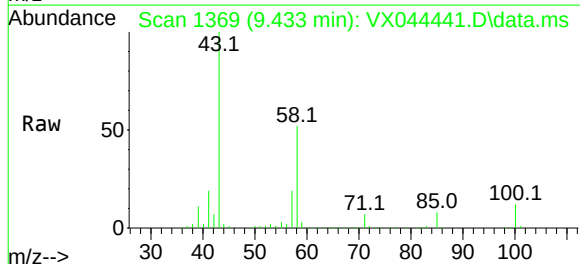
#59
2-Hexanone
Concen: 90.356 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 43 Resp: 181241
Ion Ratio Lower Upper
43 100
58 52.2 25.7 77.0

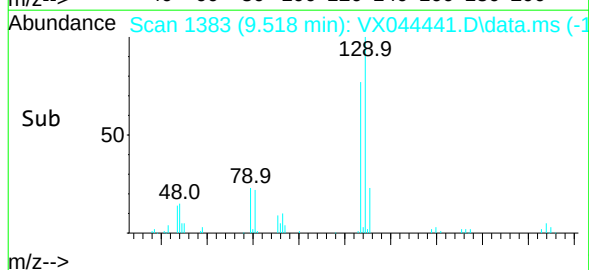
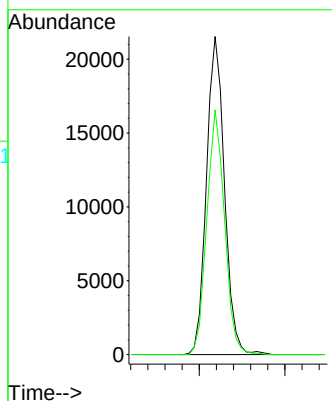
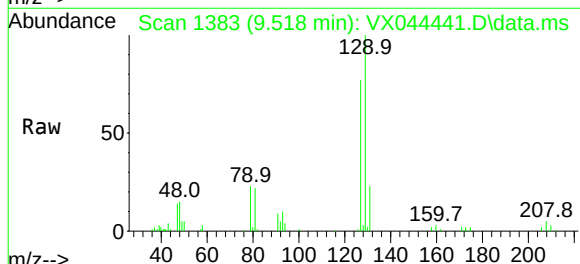
Manual Integrations
APPROVED

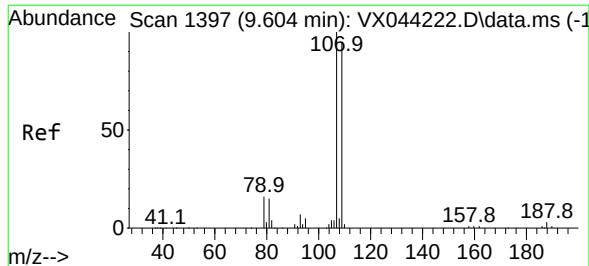
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#60
Dibromochloromethane
Concen: 18.848 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:129 Resp: 31411
Ion Ratio Lower Upper
129 100
127 75.9 38.5 115.3





#61

1,2-Dibromoethane

Concen: 20.234 ug/l

RT: 9.610 min Scan# 1397

Delta R.T. 0.006 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion: 107 Resp: 34801

Ion Ratio Lower Upper

107 100

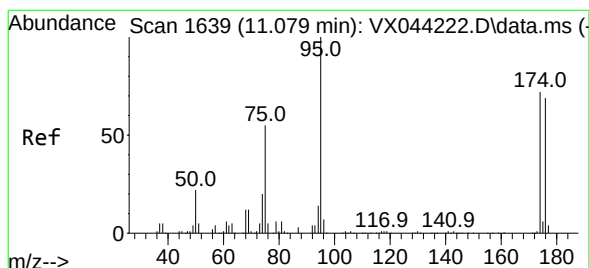
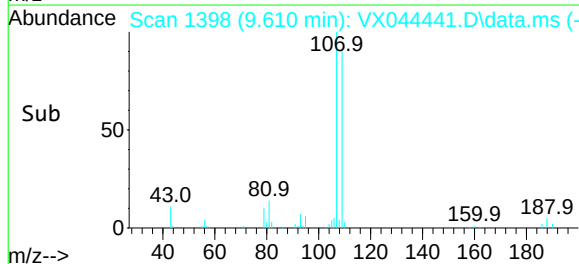
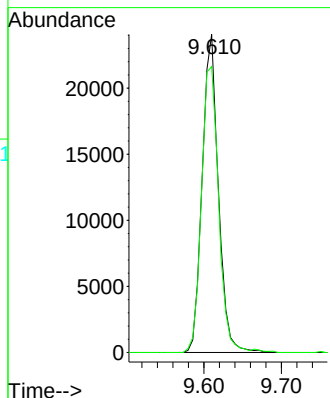
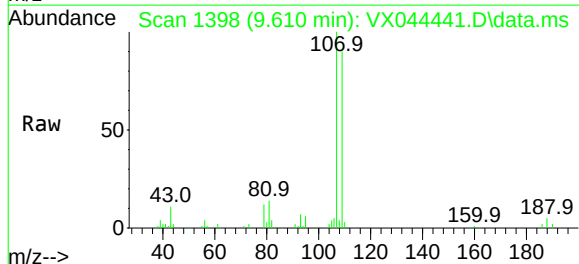
109 96.1 77.0 115.4

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 12/23/2024

Supervised By : Mahesh Dadoda 12/24/2024



#62

4-Bromofluorobenzene

Concen: 46.443 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

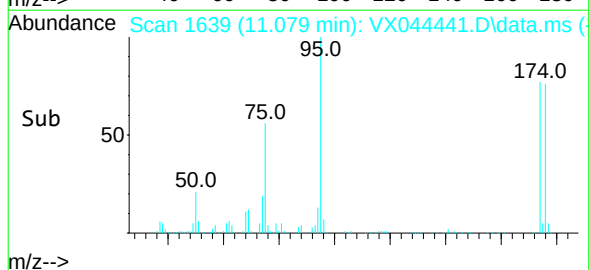
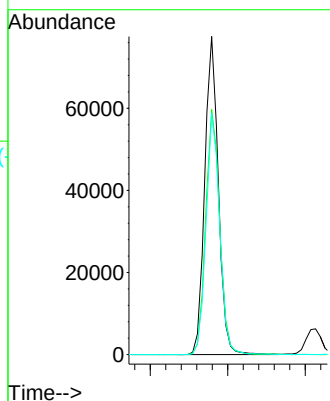
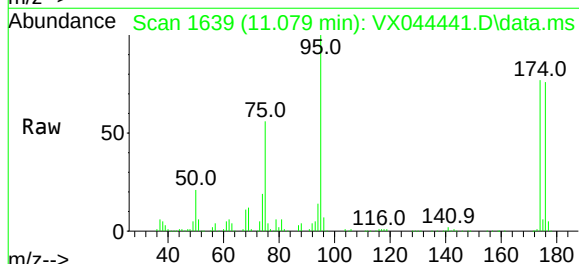
Tgt Ion: 95 Resp: 94485

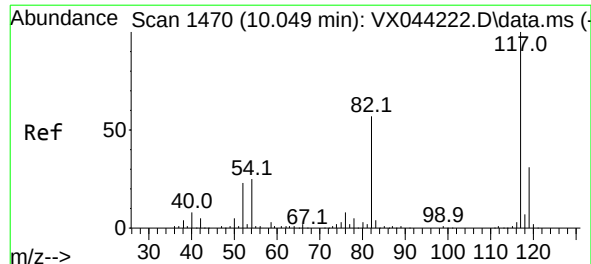
Ion Ratio Lower Upper

95 100

174 79.5 0.0 145.8

176 76.2 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

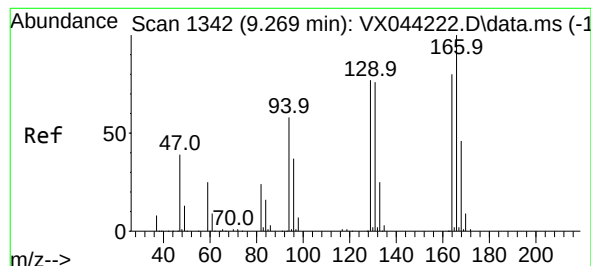
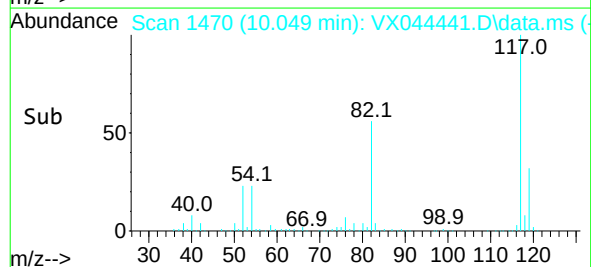
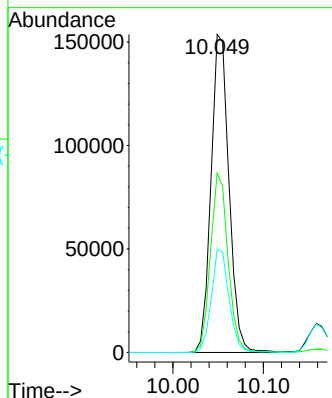
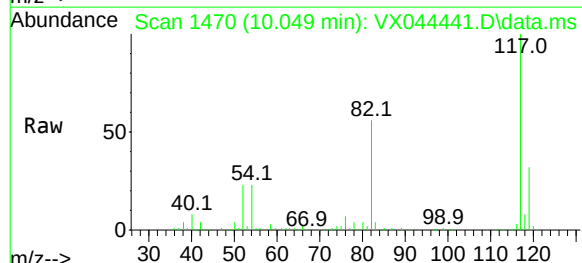
Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion:	117	Resp:	212384
Ion	Ratio	Lower	Upper
117	100		
82	56.4	45.8	68.8
119	32.5	25.0	37.4

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

#64

Tetrachloroethene

Concen: 20.762 ug/l

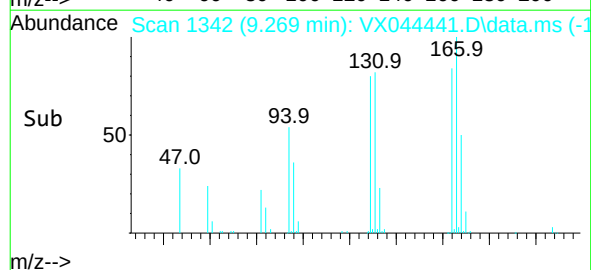
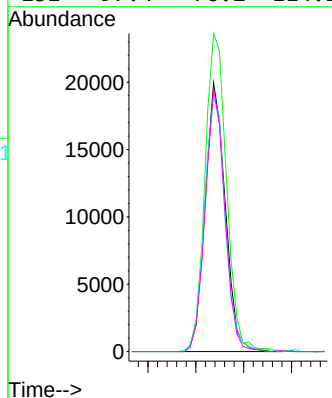
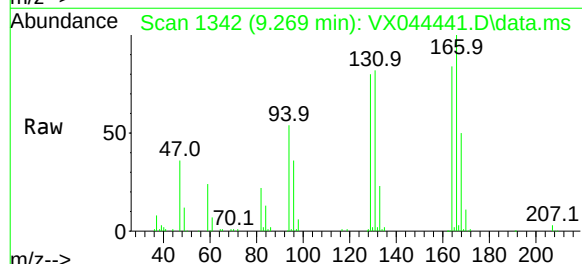
RT: 9.269 min Scan# 1342

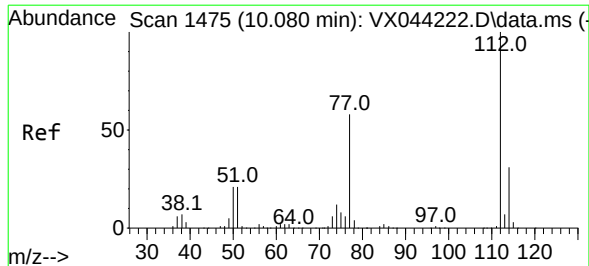
Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt Ion:	164	Resp:	29267
Ion	Ratio	Lower	Upper
164	100		
166	118.4	100.4	150.6
129	94.7	77.2	115.8
131	97.4	76.2	114.2





#65

Chlorobenzene

Concen: 19.906 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion:112 Resp: 90589

Ion Ratio Lower Upper

112 100

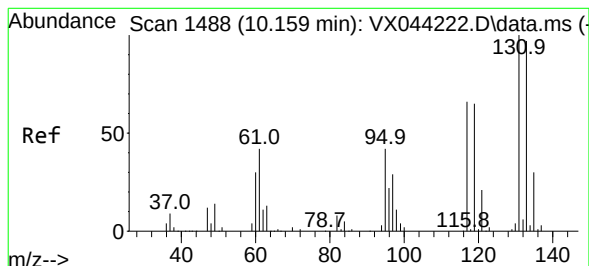
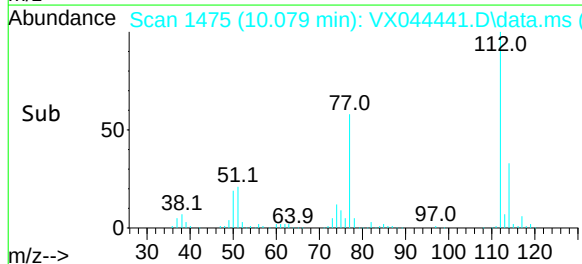
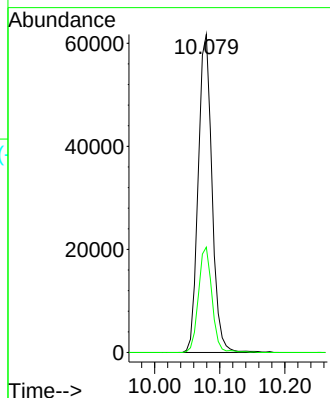
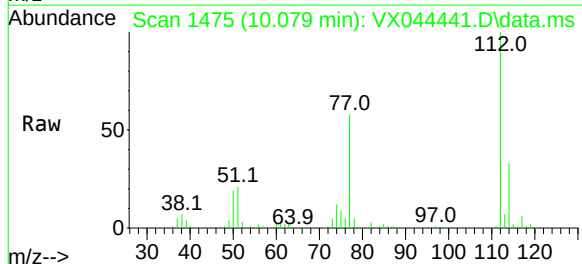
114 33.1 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 20.643 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

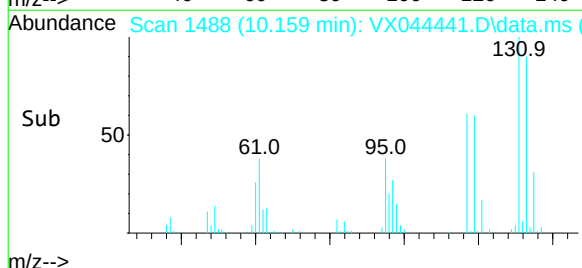
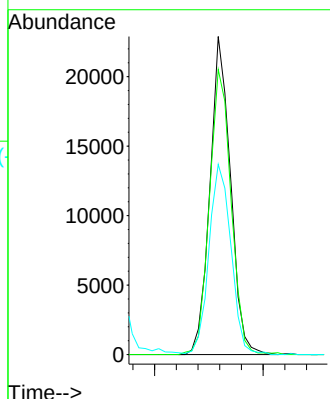
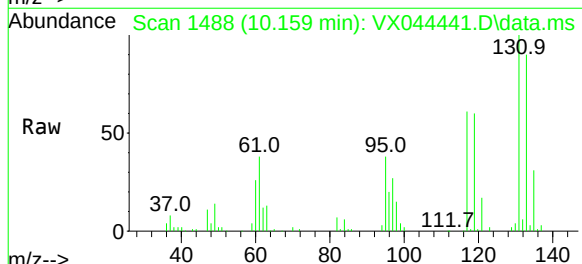
Tgt Ion:131 Resp: 30193

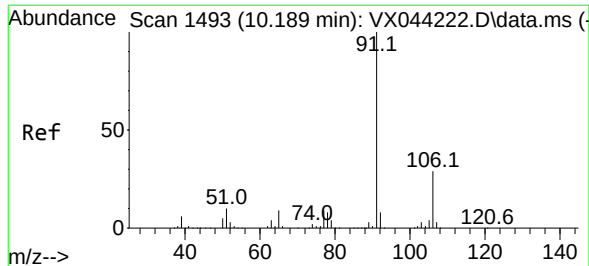
Ion Ratio Lower Upper

131 100

133 93.9 47.3 141.8

119 63.9 31.6 95.0





#67

Ethyl Benzene

Concen: 19.217 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt Ion: 91 Resp: 151105

Ion Ratio Lower Upper

91 100

106 29.6 23.5 35.3

Instrument :

MSVOA_X

ClientSampleId :

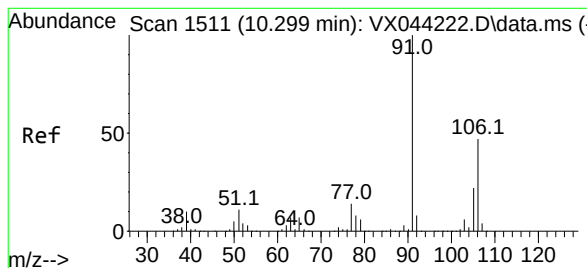
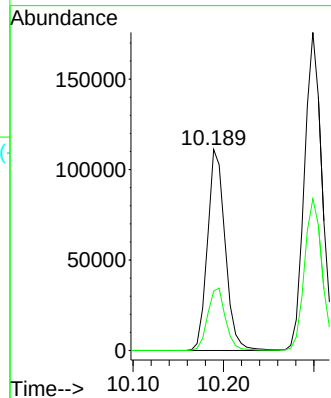
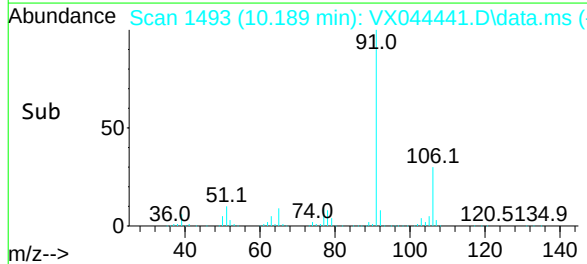
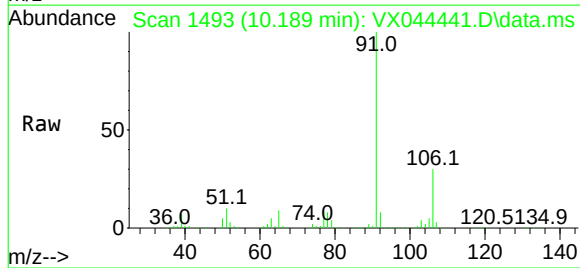
VX1220WBS01

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#68

m/p-Xylenes

Concen: 39.825 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX044441.D

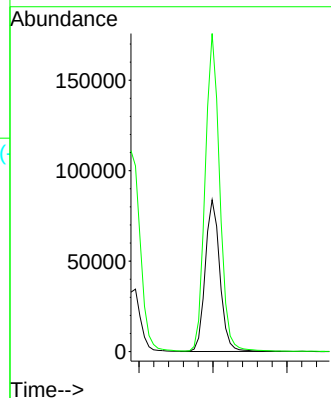
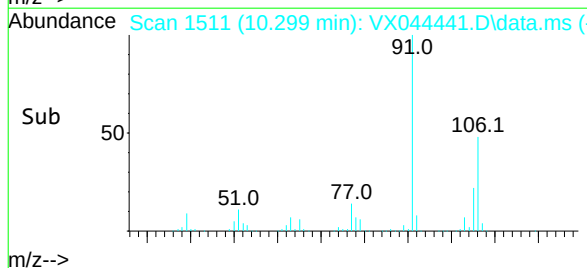
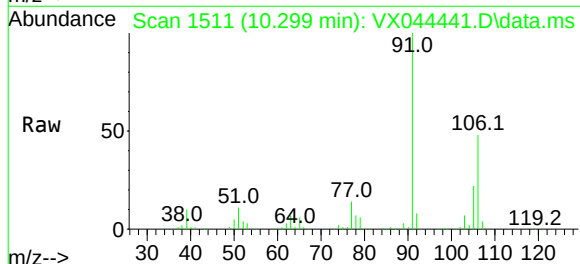
Acq: 20 Dec 2024 10:46

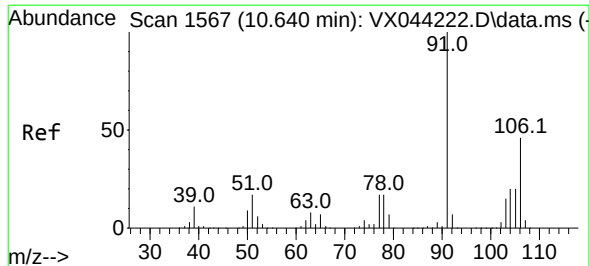
Tgt Ion:106 Resp: 114910

Ion Ratio Lower Upper

106 100

91 208.6 170.2 255.2





#69

o-Xylene

Concen: 19.797 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion:106 Resp: 57794

Ion Ratio Lower Upper

106 100

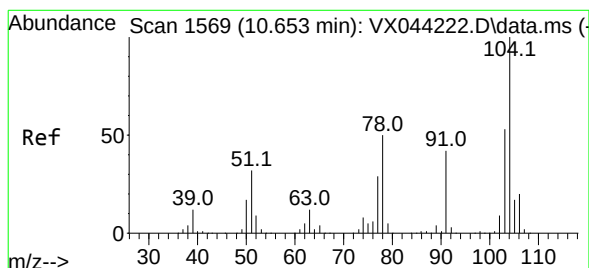
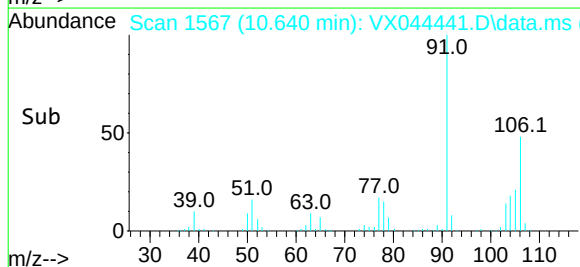
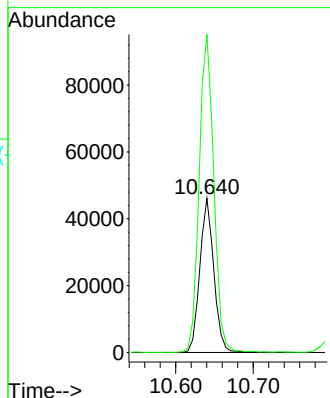
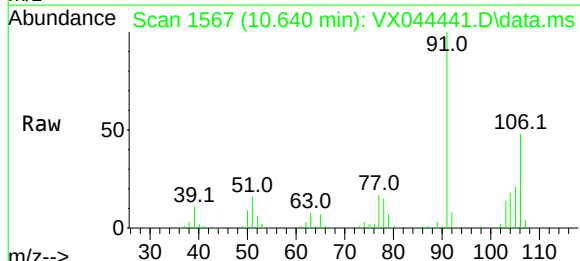
91 216.0 112.3 337.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#70

Styrene

Concen: 19.825 ug/l

RT: 10.652 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

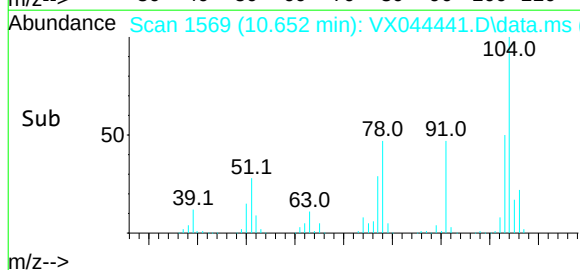
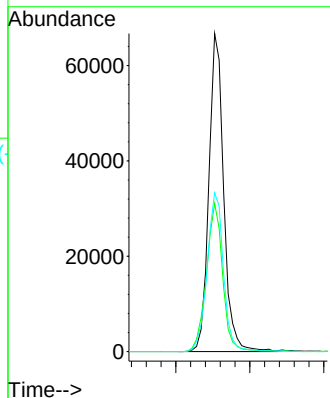
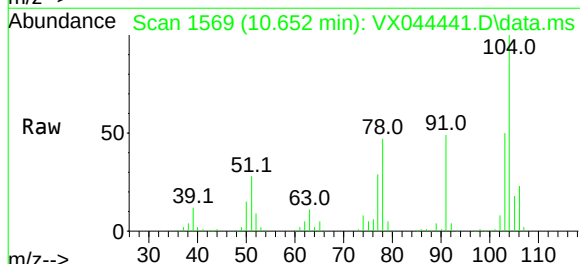
Tgt Ion:104 Resp: 92784

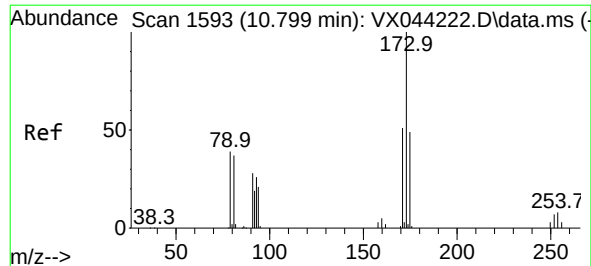
Ion Ratio Lower Upper

104 100

78 51.2 44.6 67.0

103 55.0 45.4 68.0





#71

Bromoform

Concen: 19.275 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

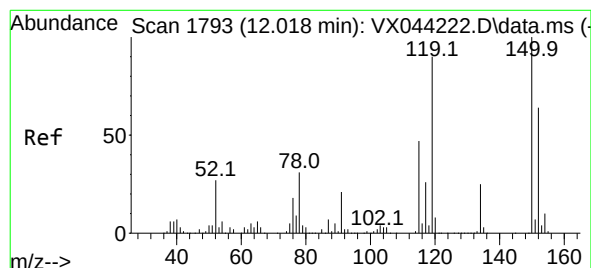
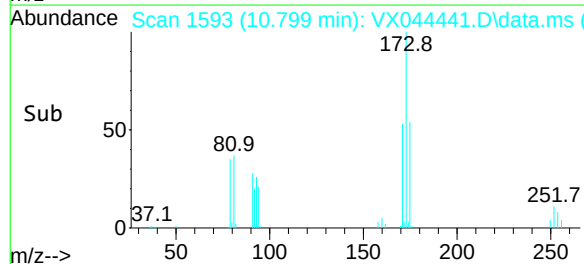
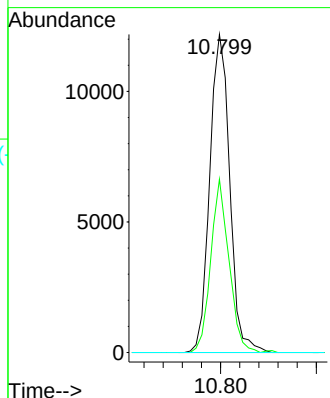
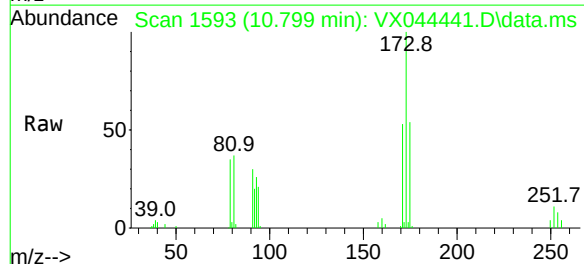
ClientSampleId :

VX1220WBS01

Tgt	Ion:173	Resp:	17659
Ion	Ratio	Lower	Upper
173	100		
175	49.7	23.8	71.4
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

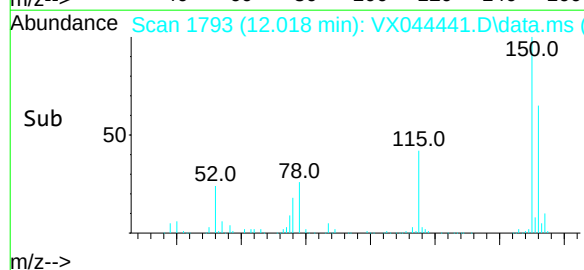
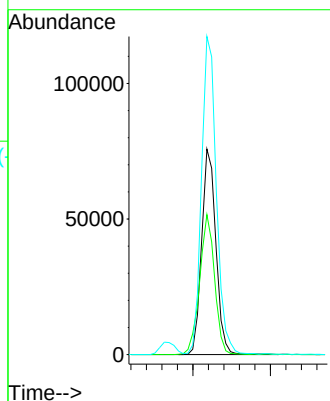
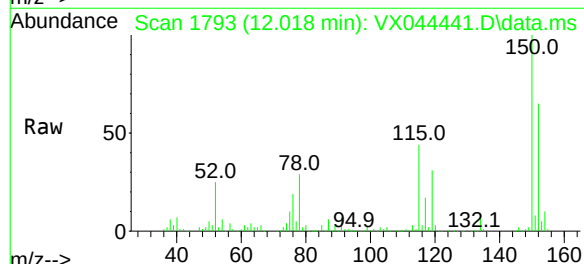
RT: 12.018 min Scan# 1793

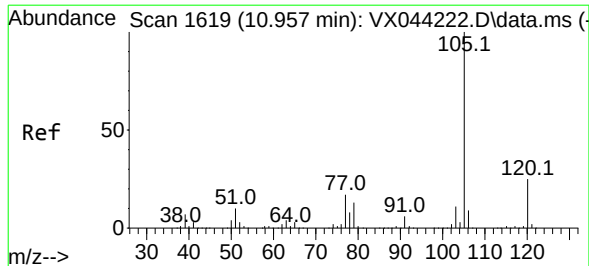
Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt	Ion:152	Resp:	96885
Ion	Ratio	Lower	Upper
152	100		
115	71.2	44.5	133.3
150	160.7	0.0	353.8





#73

Isopropylbenzene

Concen: 19.872 ug/l

RT: 10.963 min Scan# 1619

Delta R.T. 0.006 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion: 105 Resp: 147393

Ion Ratio Lower Upper

105 100

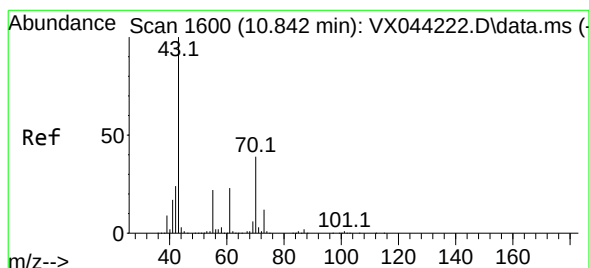
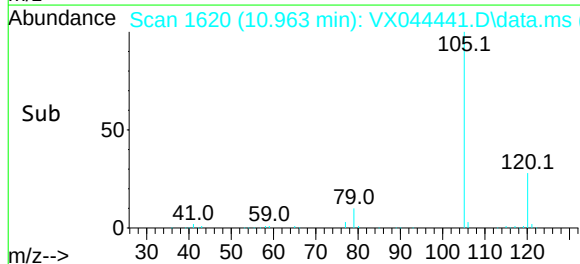
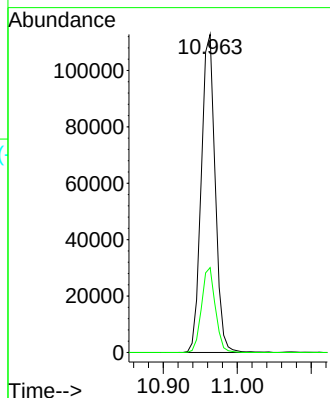
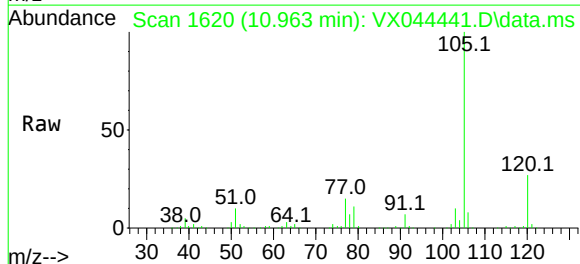
120 26.5 13.1 39.3

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 12/23/2024

Supervised By : Mahesh Dadoda 12/24/2024



#74

N-ethyl acetate

Concen: 18.038 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 61829

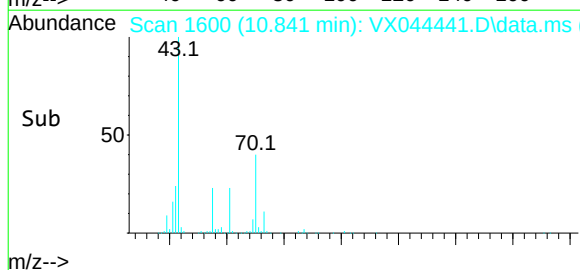
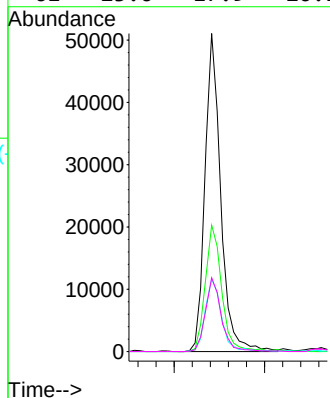
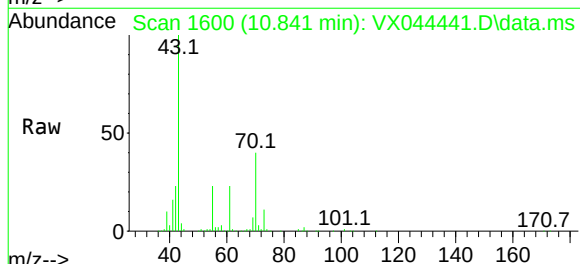
Ion Ratio Lower Upper

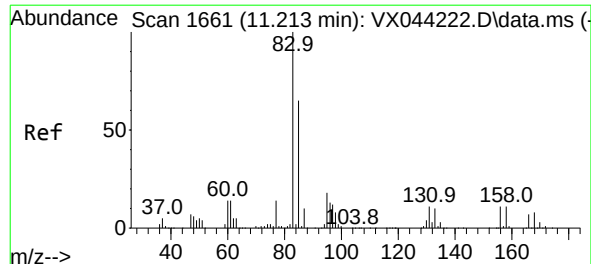
43 100

70 41.5 31.9 47.9

55 23.7 17.9 26.9

61 23.6 17.9 26.9





#75

1,1,2,2-Tetrachloroethane

Concen: 19.570 ug/l

RT: 11.213 min Scan# 1661

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

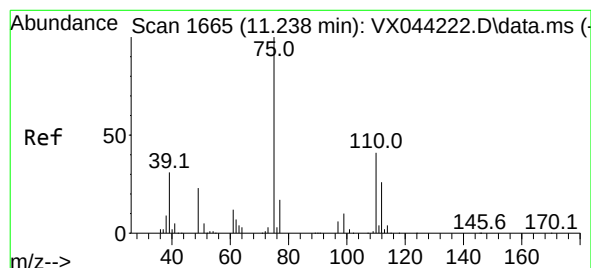
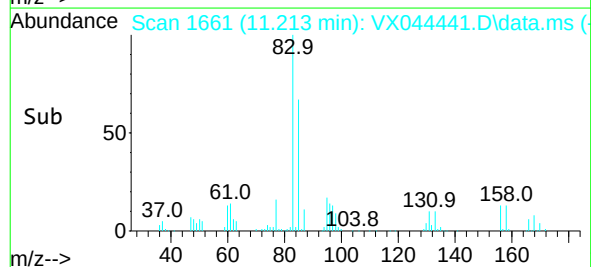
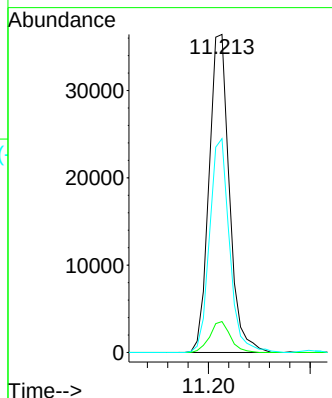
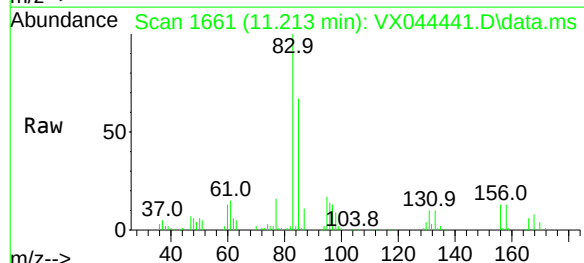
ClientSampleId :

VX1220WBS01

Tgt Ion:	83	Resp:	50416
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	65.9	32.5	97.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#76

1,2,3-Trichloropropane

Concen: 18.784 ug/l m

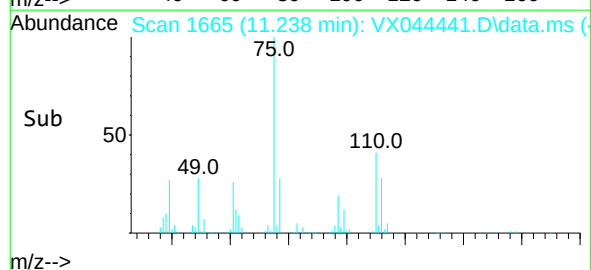
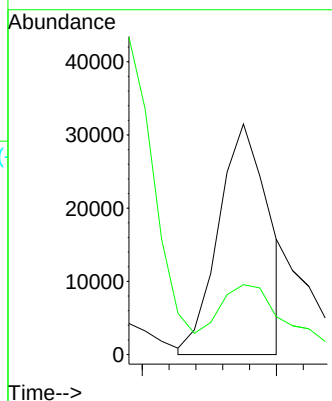
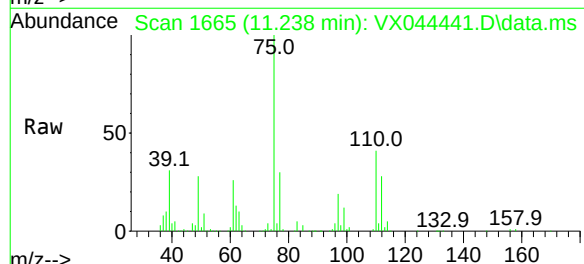
RT: 11.238 min Scan# 1665

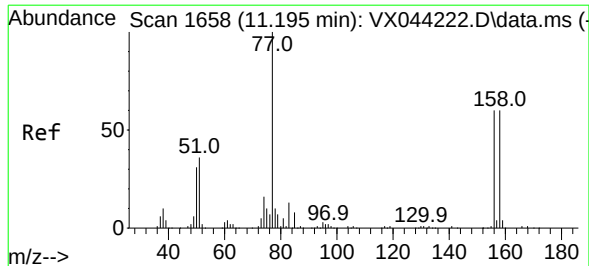
Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt Ion:	75	Resp:	40633
Ion	Ratio	Lower	Upper
75	100		
77	42.0	20.9	62.7





#77

Bromobenzene

Concen: 20.145 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion:156 Resp: 36233

Ion Ratio Lower Upper

156 100

77 155.2 82.6 247.8

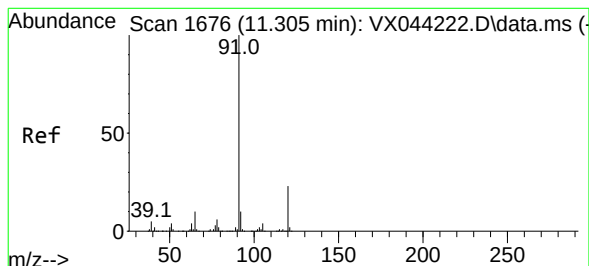
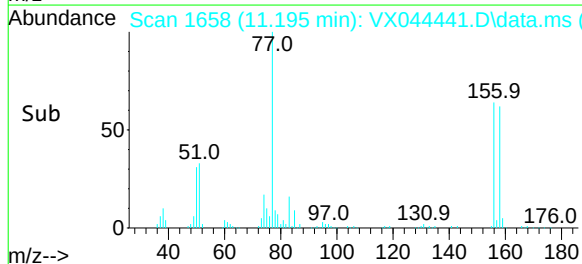
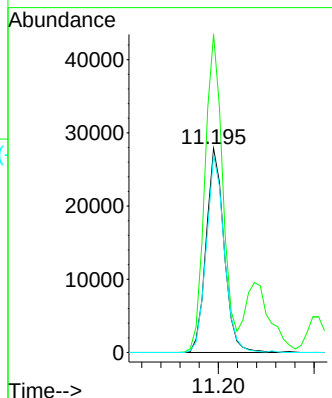
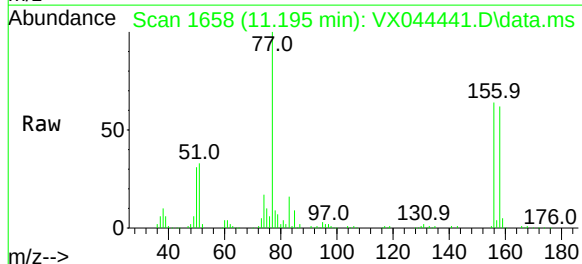
158 96.9 48.8 146.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#78

n-propylbenzene

Concen: 19.765 ug/l

RT: 11.299 min Scan# 1675

Delta R.T. -0.006 min

Lab File: VX044441.D

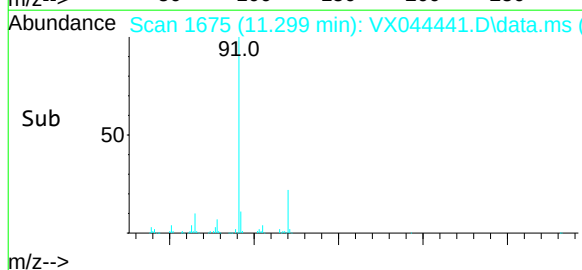
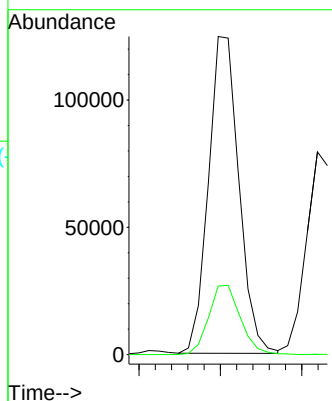
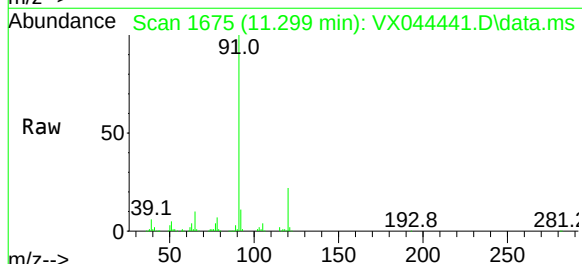
Acq: 20 Dec 2024 10:46

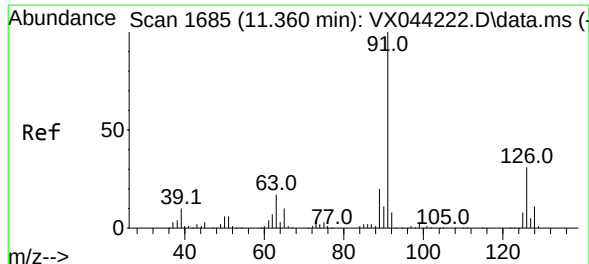
Tgt Ion: 91 Resp: 162028

Ion Ratio Lower Upper

91 100

120 22.8 11.0 33.0





#79

2-Chlorotoluene

Concen: 19.279 ug/l

RT: 11.360 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion: 91 Resp: 102209

Ion Ratio Lower Upper

91 100

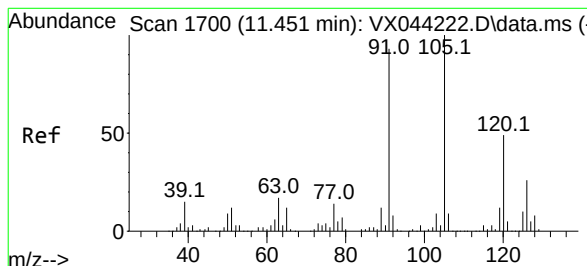
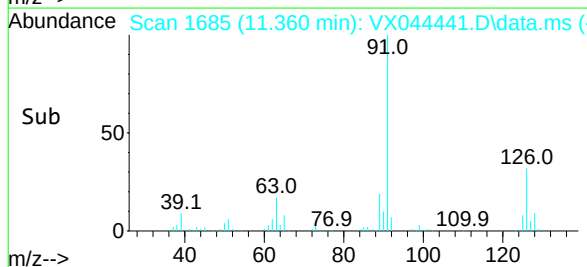
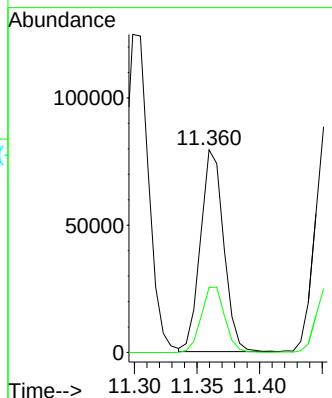
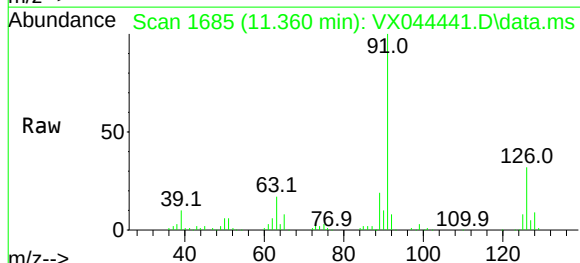
126 33.0 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#80

1,3,5-Trimethylbenzene

Concen: 19.709 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX044441.D

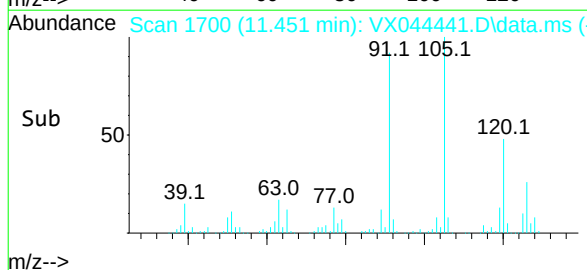
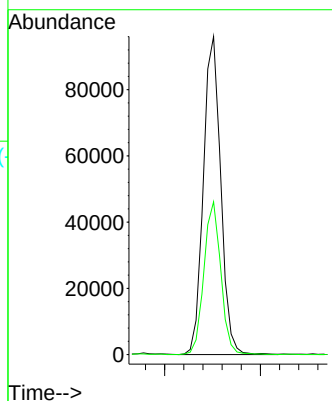
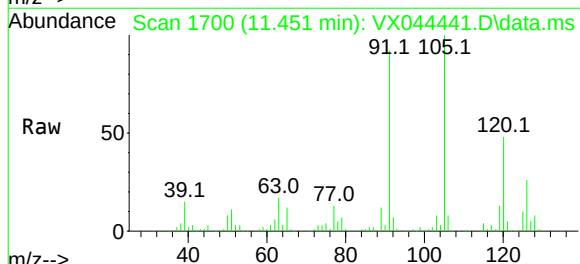
Acq: 20 Dec 2024 10:46

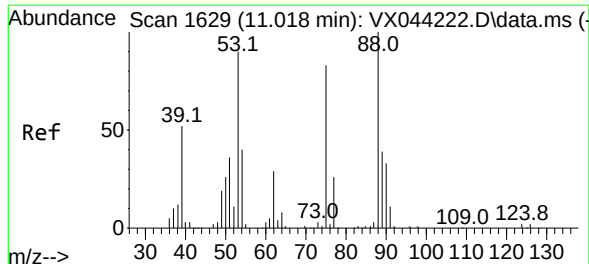
Tgt Ion:105 Resp: 121225

Ion Ratio Lower Upper

105 100

120 46.7 23.8 71.4





#81

trans-1,4-Dichloro-2-butene

Concen: 18.609 ug/l

RT: 11.018 min Scan# 1629

Delta R.T. -0.000 min

Lab File: VX044441.D

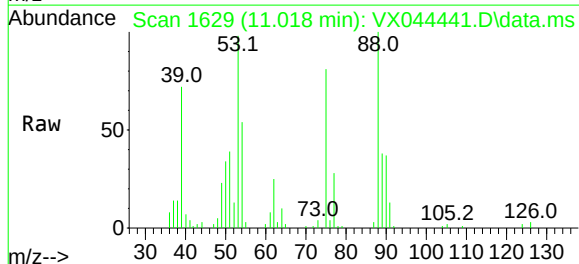
Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

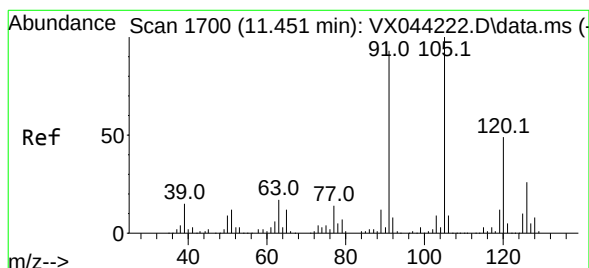
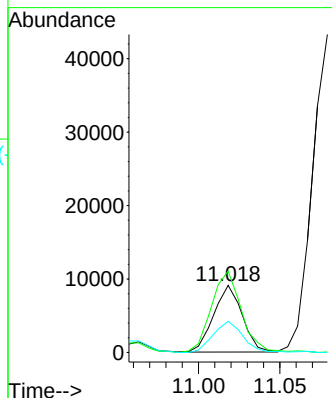
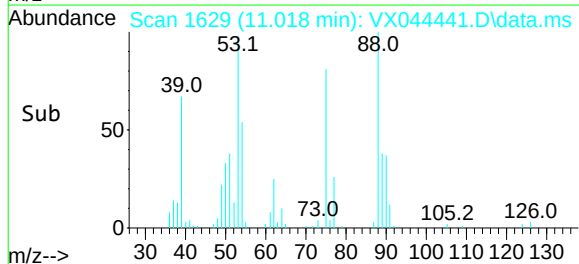
VX1220WBS01



Tgt Ion:	75	Resp:	11072
Ion	Ratio	Lower	Upper
75	100		
53	129.5	93.6	140.4
89	48.5	37.3	55.9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#82

4-Chlorotoluene

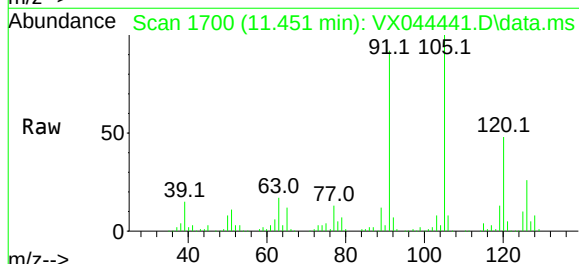
Concen: 19.122 ug/l

RT: 11.451 min Scan# 1700

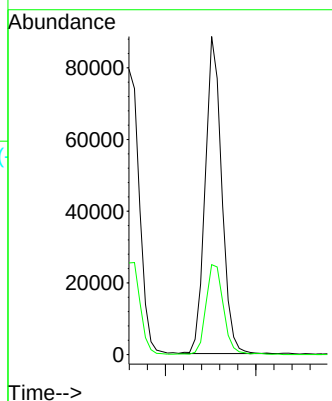
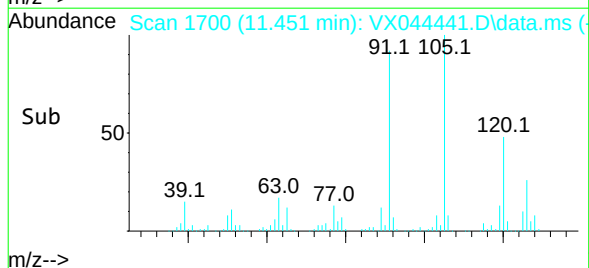
Delta R.T. -0.000 min

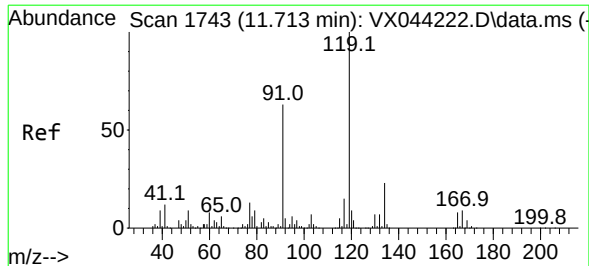
Lab File: VX044441.D

Acq: 20 Dec 2024 10:46



Tgt Ion:	91	Resp:	112263
Ion	Ratio	Lower	Upper
91	100		
126	30.4	14.5	43.5





#83

tert-Butylbenzene

Concen: 19.827 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion:119 Resp: 120518

Ion Ratio Lower Upper

119 100

91 61.1 30.9 92.5

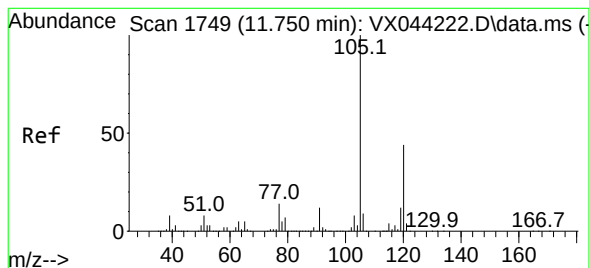
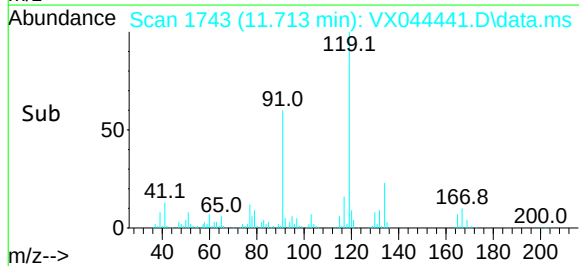
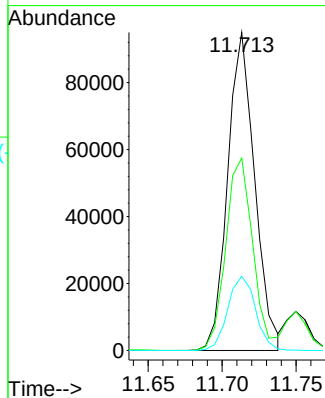
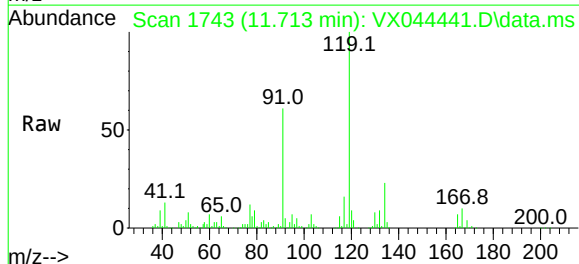
134 23.9 11.5 34.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#84

1,2,4-Trimethylbenzene

Concen: 20.085 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX044441.D

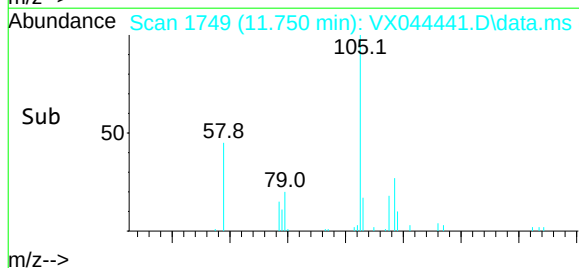
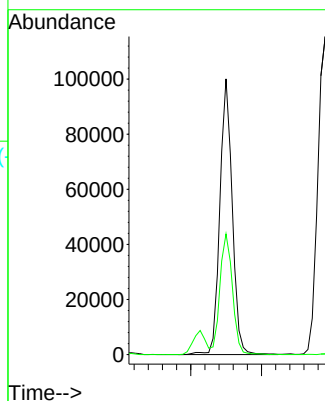
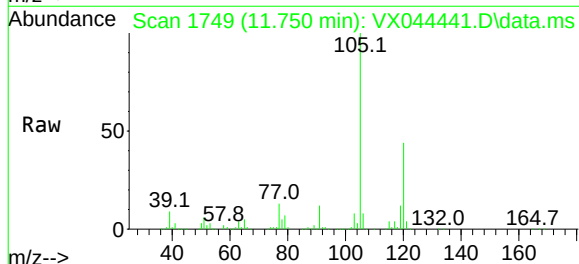
Acq: 20 Dec 2024 10:46

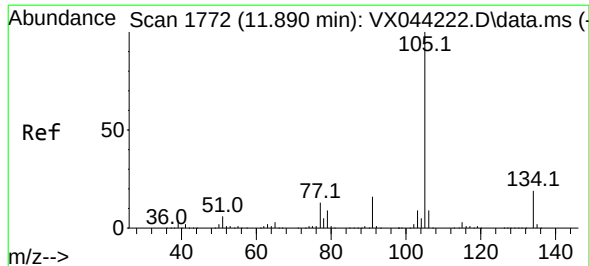
Tgt Ion:105 Resp: 121322

Ion Ratio Lower Upper

105 100

120 44.6 21.7 65.1





#85

sec-Butylbenzene

Concen: 19.477 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion:105 Resp: 143732

Ion Ratio Lower Upper

105 100

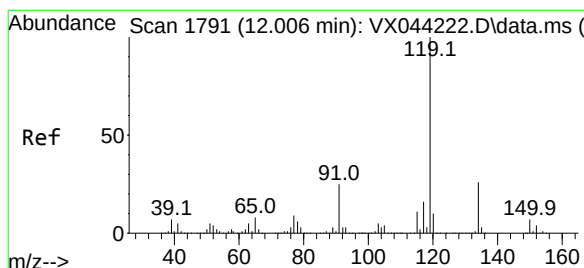
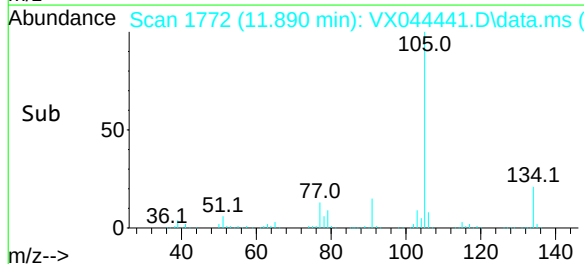
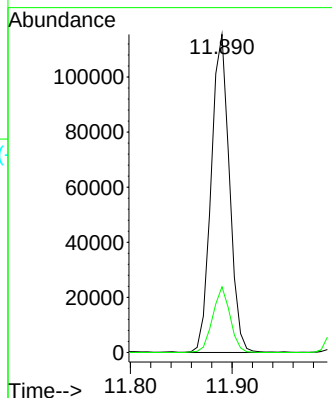
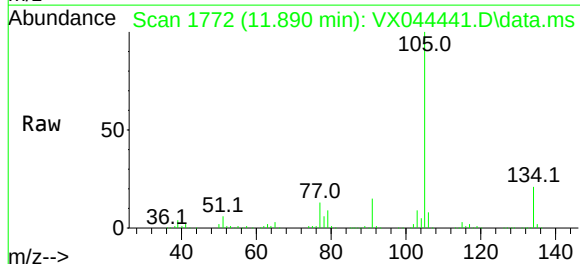
134 19.7 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#86

p-Isopropyltoluene

Concen: 19.596 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

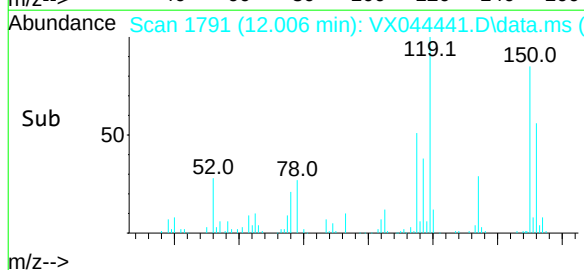
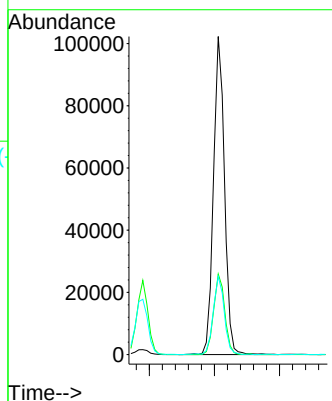
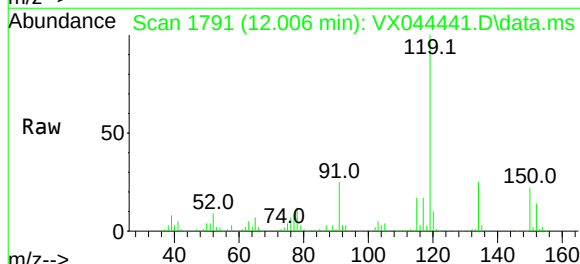
Tgt Ion:119 Resp: 120356

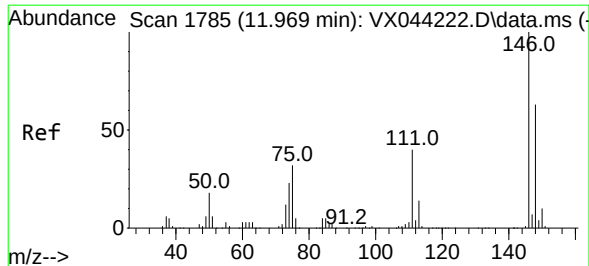
Ion Ratio Lower Upper

119 100

134 25.5 12.8 38.4

91 24.7 13.0 39.0





#87

1,3-Dichlorobenzene

Concen: 20.058 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion:146 Resp: 63016

Ion Ratio Lower Upper

146 100

111 40.6 21.4 64.2

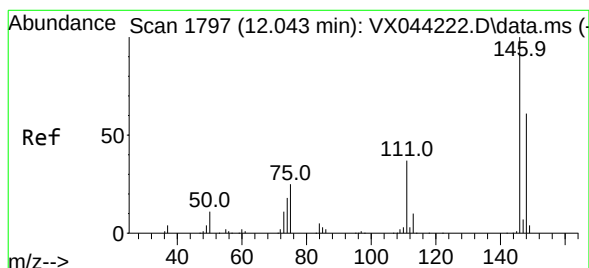
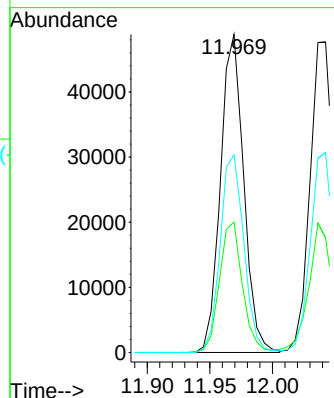
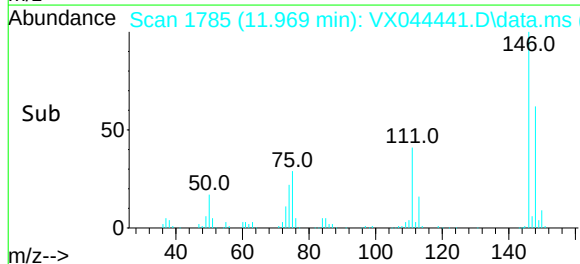
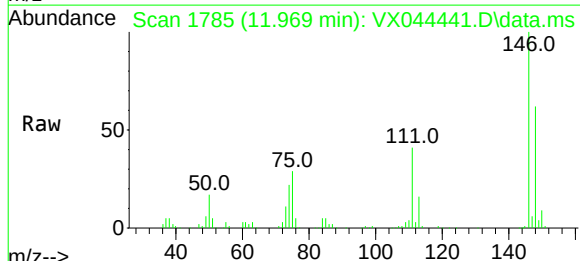
148 63.0 31.7 95.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#88

1,4-Dichlorobenzene

Concen: 19.954 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

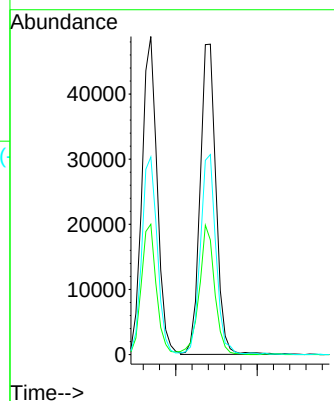
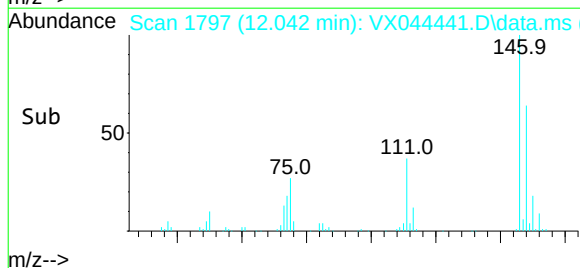
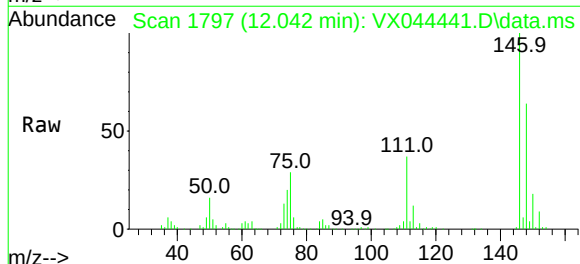
Tgt Ion:146 Resp: 64444

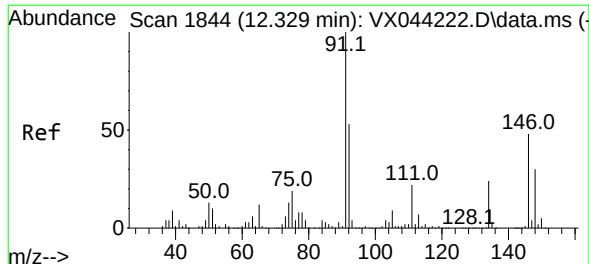
Ion Ratio Lower Upper

146 100

111 40.5 21.0 63.0

148 63.0 32.3 96.8





#89

n-Butylbenzene

Concen: 18.279 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

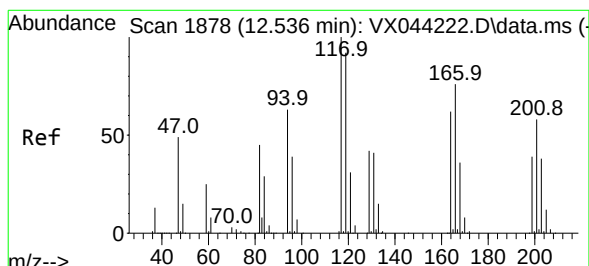
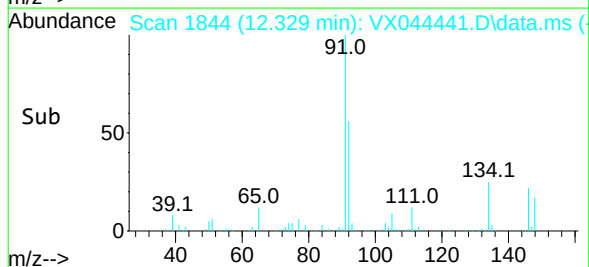
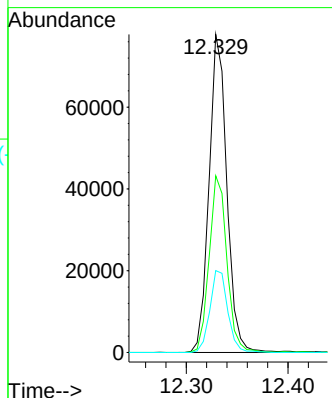
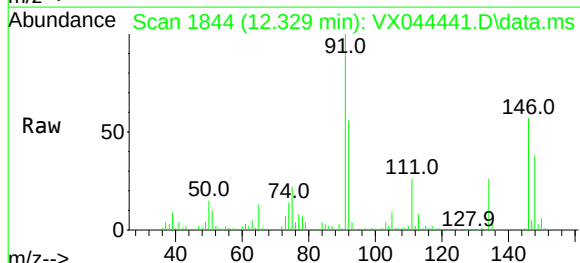
Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion:	91	Resp:	94402
Ion Ratio	Lower	Upper	
91	100		
92	55.5	26.6	79.7
134	25.9	12.6	37.8

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

#90

Hexachloroethane

Concen: 18.640 ug/l

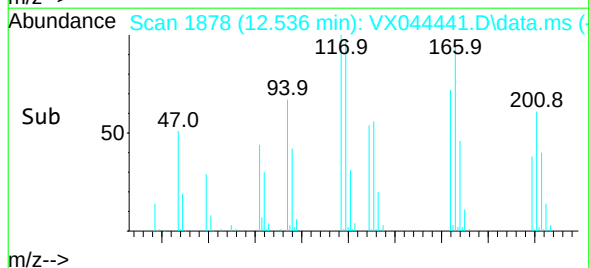
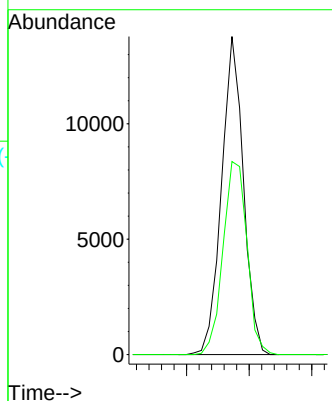
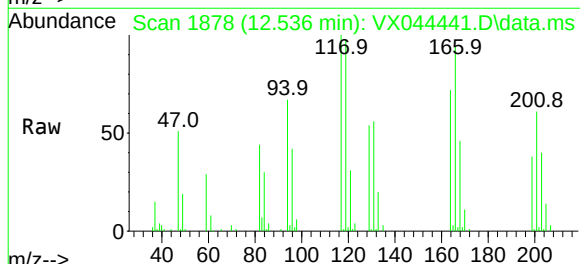
RT: 12.536 min Scan# 1878

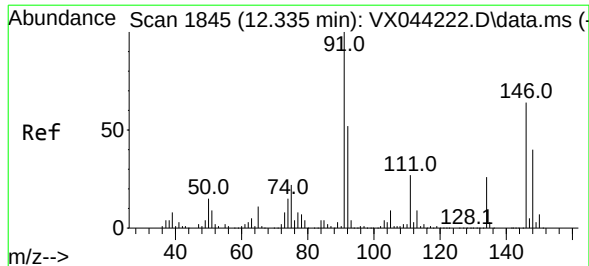
Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt Ion:	117	Resp:	16712
Ion Ratio	Lower	Upper	
117	100		
201	66.5	31.4	94.2





#91

1,2-Dichlorobenzene

Concen: 19.798 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

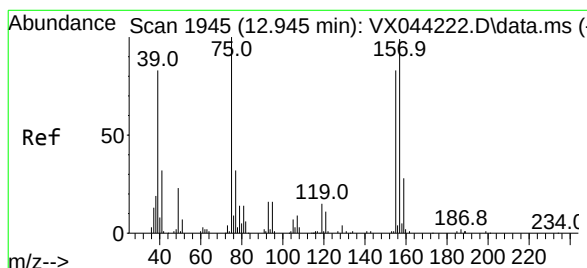
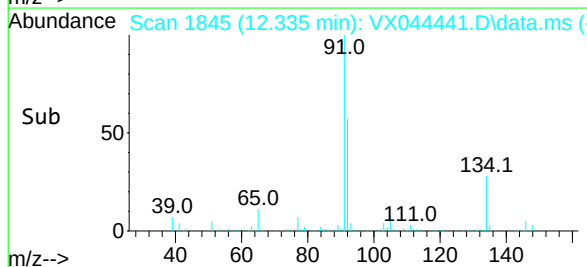
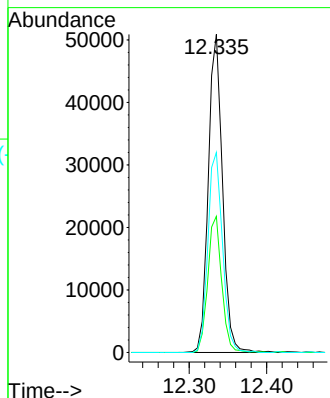
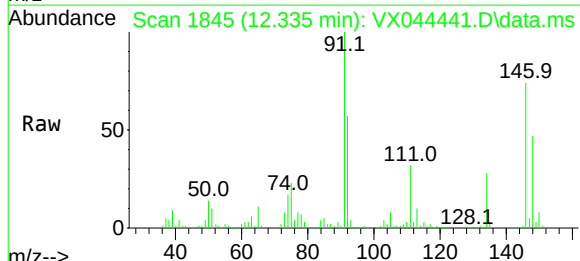
Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion:	146	Resp:	64584
Ion Ratio	Lower	Upper	
146	100		
111	42.2	21.4	64.3
148	64.8	31.6	95.0

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

#92

1,2-Dibromo-3-Chloropropane

Concen: 16.523 ug/l

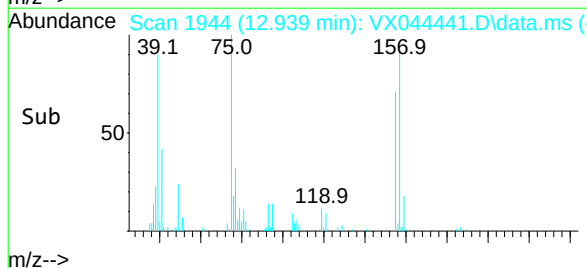
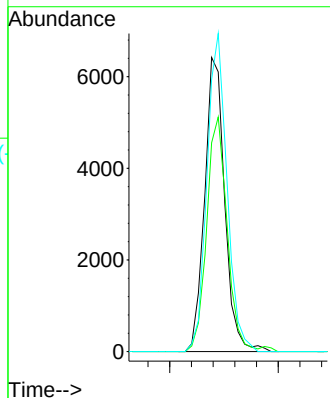
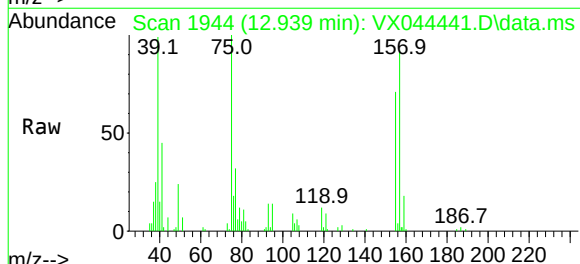
RT: 12.939 min Scan# 1944

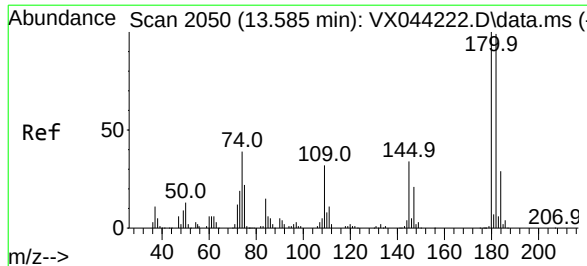
Delta R.T. -0.006 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt Ion:	75	Resp:	8263
Ion Ratio	Lower	Upper	
75	100		
155	81.6	38.1	114.3
157	107.5	47.2	141.6





#93

1,2,4-Trichlorobenzene

Concen: 19.470 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion:180 Resp: 34820

Ion Ratio Lower Upper

180 100

182 94.3 48.0 144.2

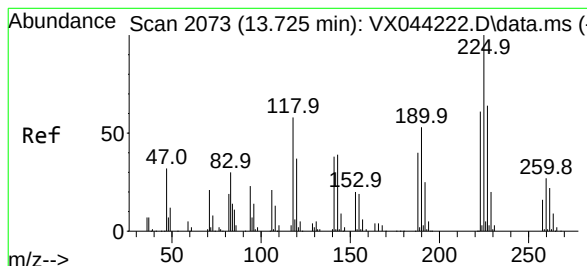
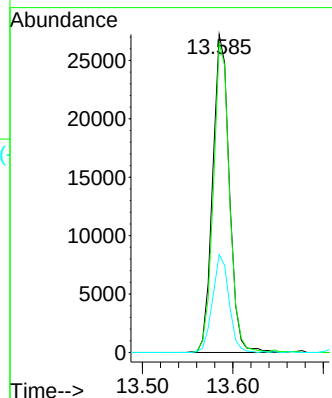
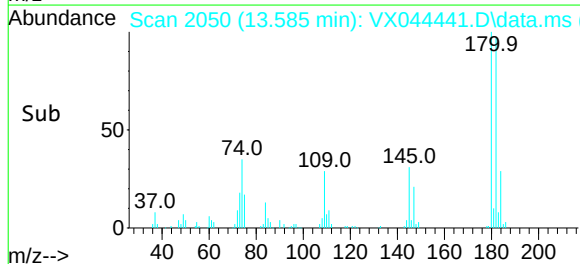
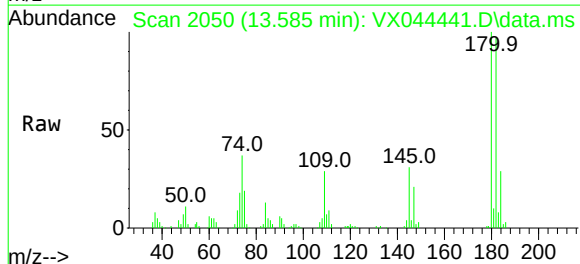
145 30.4 16.6 49.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#94

Hexachlorobutadiene

Concen: 21.174 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

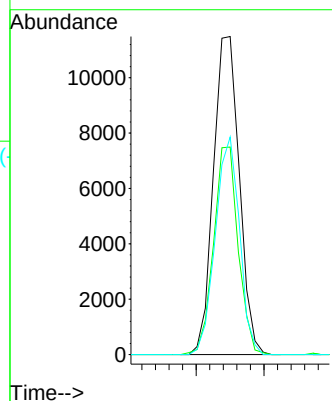
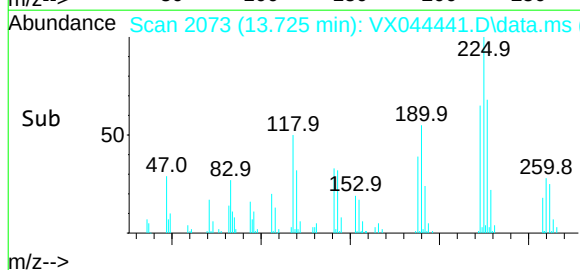
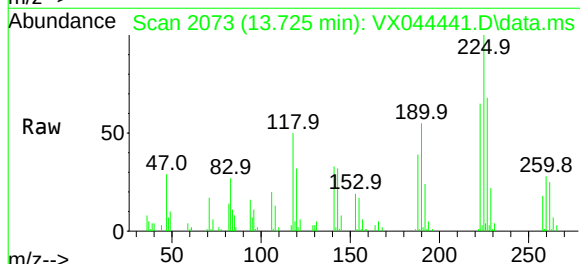
Tgt Ion:225 Resp: 15232

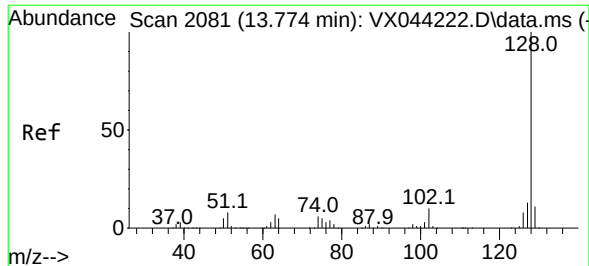
Ion Ratio Lower Upper

225 100

223 62.0 30.8 92.4

227 63.6 32.1 96.3





#95

Naphthalene

Concen: 17.830 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion:128 Resp: 124472

Ion Ratio Lower Upper

128 100

127 13.0 10.5 15.7

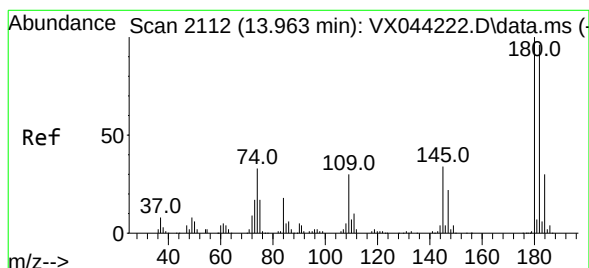
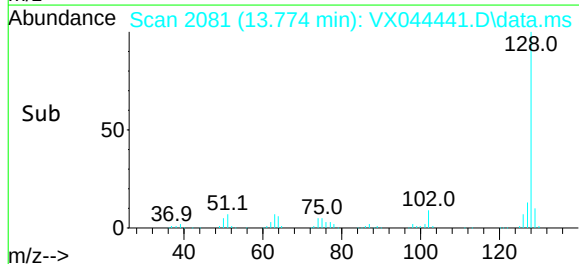
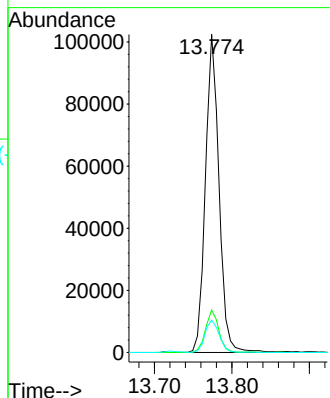
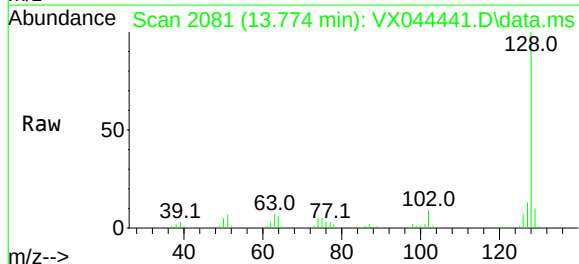
129 10.7 9.0 13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#96

1,2,3-Trichlorobenzene

Concen: 19.378 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

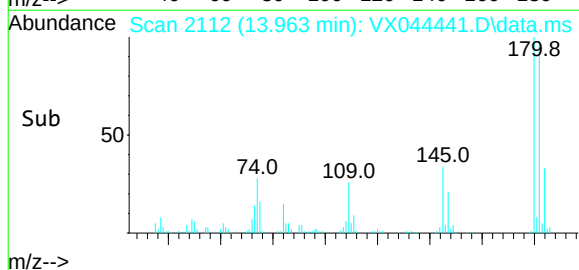
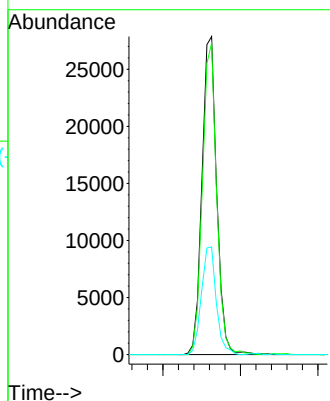
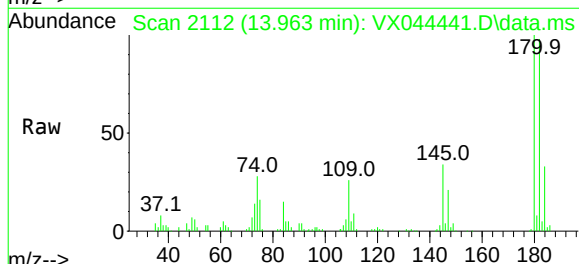
Tgt Ion:180 Resp: 36757

Ion Ratio Lower Upper

180 100

182 94.5 48.0 144.0

145 34.2 17.7 53.1



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VX1220WBSD01		SDG No.:	P5314
Lab Sample ID:	VX1220WBSD01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044442.D	1		12/20/24 11:16	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	18.7		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	18.1		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	18.1		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	20.3		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	15.9		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.3		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.6		0.26	0.75	1.00	ug/L
67-64-1	Acetone	79.1		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	16.8		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.0		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	19.0		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.9		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.4		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	88.5		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.9		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.4		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	18.3		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.5		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	19.6		0.19	0.50	1.00	ug/L
71-43-2	Benzene	20.8		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.8		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	20.3		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.3		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.7		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	99.0		0.75	2.50	5.00	ug/L
108-88-3	Toluene	19.9		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.1		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.2		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.6		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	97.2		1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VX1220WBSD01	SDG No.:	P5314
Lab Sample ID:	VX1220WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044442.D	1		12/20/24 11:16	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	19.3		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.5		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	20.2		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.5		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	41.2		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	20.2		0.14	0.50	1.00	ug/L
100-42-5	Styrene	20.4		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	20.1		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	18.8		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.7		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.2		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.7		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.0		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.6		81 - 118		87%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	49.9		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.6		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	139000	5.538				
540-36-3	1,4-Difluorobenzene	231000	6.757				
3114-55-4	Chlorobenzene-d5	202000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	96100	12.018				

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_X\Data\VX122024\
 Data File : VX044442.D
 Acq On : 20 Dec 2024 11:16
 Operator : JC/MD
 Sample : VX1220WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1220WBSD01

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 12/23/2024
 Supervised By : Mahesh Dadoda 12/24/2024

Quant Time: Dec 20 22:22:35 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:28:14 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	138719	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.757	114	231232	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	202087	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	96082	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.952	65	106058	43.606	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	87.220%
35) Dibromofluoromethane	5.385	113	78890	49.260	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.520%
50) Toluene-d8	8.647	98	269677	49.913	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.820%
62) 4-Bromofluorobenzene	11.079	95	91791	48.620	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	97.240%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	39072	18.216	ug/l	98
3) Chloromethane	1.294	50	38429	18.735	ug/l	99
4) Vinyl Chloride	1.374	62	38657	18.090	ug/l	99
5) Bromomethane	1.593	94	27434	18.096	ug/l	95
6) Chloroethane	1.666	64	26989	20.283	ug/l	98
7) Trichlorofluoromethane	1.867	101	66329	15.855	ug/l	97
8) Diethyl Ether	2.130	74	24733	17.320	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	31056	18.346	ug/l	94
10) Methyl Iodide	2.441	142	42456	19.029	ug/l	96
11) Tert butyl alcohol	2.989	59	28417	82.901	ug/l	96
12) 1,1-Dichloroethene	2.306	96	28901	18.587	ug/l	95
13) Acrolein	2.239	56	42729	86.114	ug/l	95
14) Allyl chloride	2.654	41	46350	17.897	ug/l	97
15) Acrylonitrile	3.062	53	90796	95.622	ug/l	97
16) Acetone	2.386	43	78457	79.124	ug/l	96
17) Carbon Disulfide	2.501	76	49587	16.777	ug/l	99
18) Methyl Acetate	2.703	43	46799	18.305	ug/l	96
19) Methyl tert-butyl Ether	3.117	73	109105	17.981	ug/l	98
20) Methylene Chloride	2.782	84	35395	19.005	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	29631	17.931	ug/l	93
22) Diisopropyl ether	3.757	45	106036	18.182	ug/l	87
23) Vinyl Acetate	3.715	43	452921	95.526	ug/l	100
24) 1,1-Dichloroethane	3.599	63	59870	18.417	ug/l	100
25) 2-Butanone	4.562	43	124774	88.514	ug/l	99
26) 2,2-Dichloropropane	4.471	77	47237	17.886	ug/l	96
27) cis-1,2-Dichloroethene	4.483	96	38668	18.425	ug/l	96
28) Bromochloromethane	4.891	49	25309	15.877	ug/l	98
29) Tetrahydrofuran	5.007	42	79911	88.318	ug/l	98
30) Chloroform	5.086	83	66814	18.293	ug/l	94
31) Cyclohexane	5.452	56	46401	17.676	ug/l	90
32) 1,1,1-Trichloroethane	5.379	97	52904	17.450	ug/l	98
36) 1,1-Dichloropropene	5.684	75	39588	19.123	ug/l	98
37) Ethyl Acetate	4.715	43	50767	19.839	ug/l	99
38) Carbon Tetrachloride	5.666	117	42171	18.922	ug/l	98
39) Methylcyclohexane	7.373	83	48538	19.613	ug/l	97
40) Benzene	6.031	78	130546	20.770	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
 Data File : VX044442.D
 Acq On : 20 Dec 2024 11:16
 Operator : JC/MD
 Sample : VX1220WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1220WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
 Supervised By :Mahesh Dadoda 12/24/2024

Quant Time: Dec 20 22:22:35 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:28:14 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	27115	19.955	ug/l	97
42) 1,2-Dichloroethane	6.080	62	51173	19.765	ug/l	97
43) Isopropyl Acetate	6.336	43	76752	19.190	ug/l	98
44) Trichloroethene	7.117	130	31887	20.344	ug/l	89
45) 1,2-Dichloropropane	7.427	63	32584	20.292	ug/l	97
46) Dibromomethane	7.574	93	25878	20.773	ug/l	94
47) Bromodichloromethane	7.818	83	42288	19.655	ug/l	98
48) Methyl methacrylate	7.690	41	36464	18.781	ug/l	98
49) 1,4-Dioxane	7.665	88	9497	295.032	ug/l #	68
51) 4-Methyl-2-Pentanone	8.574	43	254570	98.990	ug/l	100
52) Toluene	8.714	92	78578	19.908	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	41297	19.092	ug/l	95
54) cis-1,3-Dichloropropene	8.366	75	47240	20.165	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	33879	21.606	ug/l	97
56) Ethyl methacrylate	9.116	69	49755	20.100	ug/l	97
57) 1,3-Dichloropropane	9.305	76	57969	21.239	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	114719	91.883	ug/l	99
59) 2-Hexanone	9.427	43	180865	97.164	ug/l	98
60) Dibromochloromethane	9.519	129	29976	19.339	ug/l	99
61) 1,2-Dibromoethane	9.604	107	34036	21.325	ug/l	98
64) Tetrachloroethene	9.269	164	27454	20.468	ug/l	96
65) Chlorobenzene	10.073	112	87347	20.171	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	29694	21.337	ug/l	98
67) Ethyl Benzene	10.189	91	146051	19.520	ug/l	98
68) m/p-Xylenes	10.299	106	113167	41.220	ug/l	93
69) o-Xylene	10.640	106	56176	20.223	ug/l	94
70) Styrene	10.652	104	91004	20.436	ug/l	96
71) Bromoform	10.799	173	17644	20.140	ug/l #	98
73) Isopropylbenzene	10.963	105	138041	18.767	ug/l	99
74) N-amyl acetate	10.841	43	60849	17.900	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.213	83	50373	19.717	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	40849m	19.041	ug/l	
77) Bromobenzene	11.195	156	35713	20.022	ug/l	95
78) n-propylbenzene	11.305	91	155505	19.128	ug/l	98
79) 2-Chlorotoluene	11.360	91	98404	18.716	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	118602	19.444	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	11391	19.096	ug/l	91
82) 4-Chlorotoluene	11.451	91	110656	19.006	ug/l	99
83) tert-Butylbenzene	11.713	119	114519	18.997	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	118782	19.828	ug/l	98
85) sec-Butylbenzene	11.890	105	139575	19.072	ug/l	99
86) p-Isopropyltoluene	12.006	119	118332	19.427	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	62799	20.156	ug/l	98
88) 1,4-Dichlorobenzene	12.042	146	63145	19.716	ug/l	99
89) n-Butylbenzene	12.329	91	94807	18.510	ug/l	98
90) Hexachloroethane	12.536	117	16094	18.101	ug/l	96
91) 1,2-Dichlorobenzene	12.335	146	64853	20.047	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7805	15.738	ug/l	84
93) 1,2,4-Trichlorobenzene	13.585	180	35185	19.838	ug/l	99
94) Hexachlorobutadiene	13.725	225	14480	20.297	ug/l	96
95) Naphthalene	13.774	128	130346	18.828	ug/l	98
96) 1,2,3-Trichlorobenzene	13.963	180	36727	19.524	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044442.D
Acq On : 20 Dec 2024 11:16
Operator : JC/MD
Sample : VX1220WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Quant Time: Dec 20 22:22:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

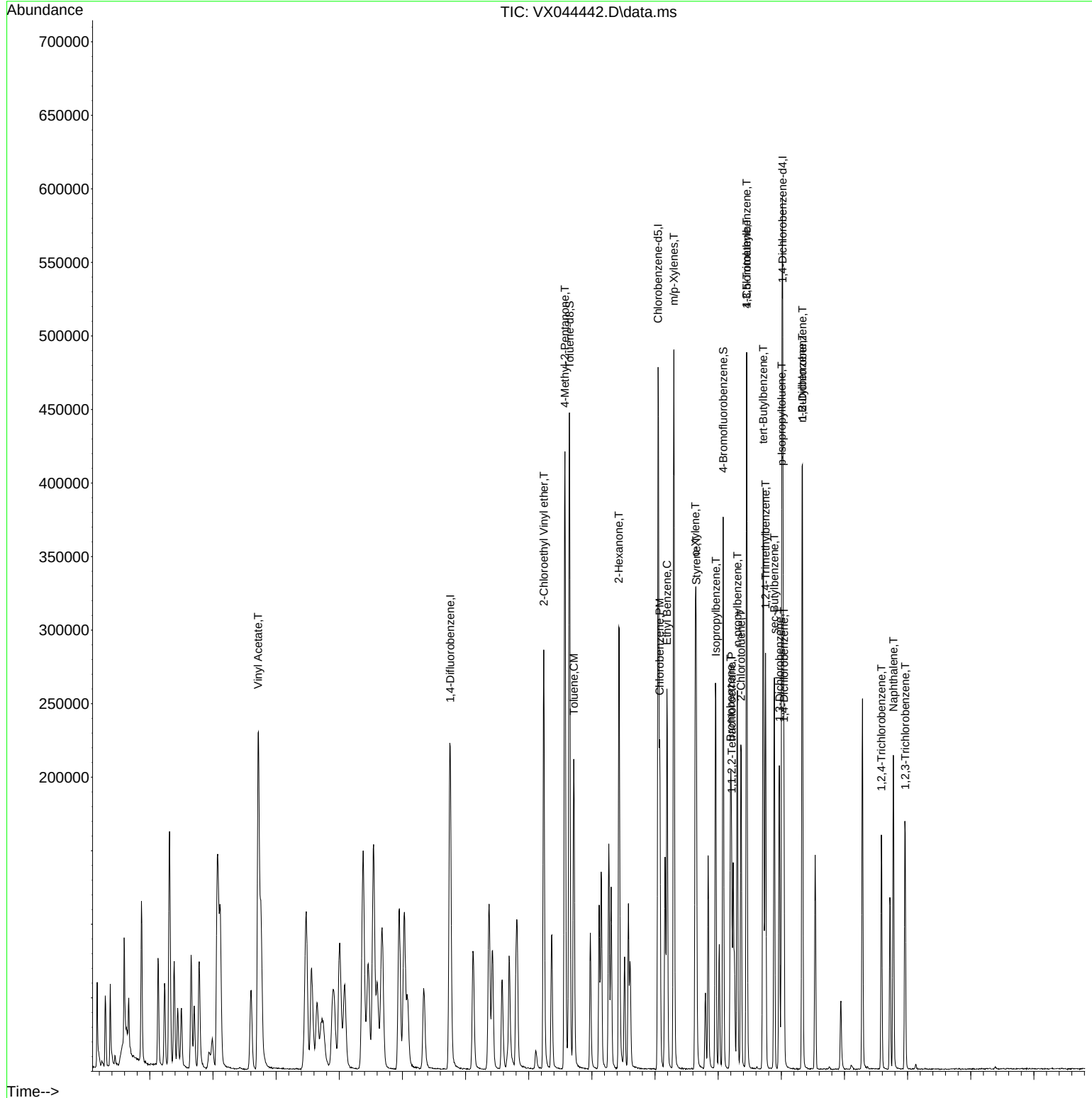
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Data File : VX044442.D
Acq On : 20 Dec 2024 11:16
Operator : JC/MD
Sample : VX1220WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

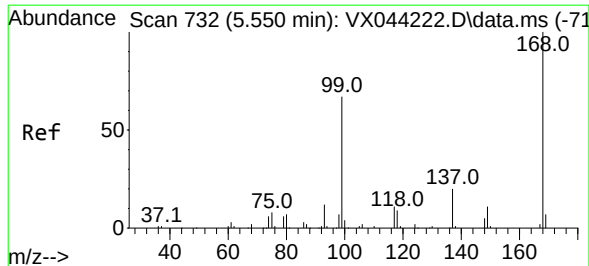
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 12/23/2024
Supervised By : Mahesh Dadoda 12/24/2024

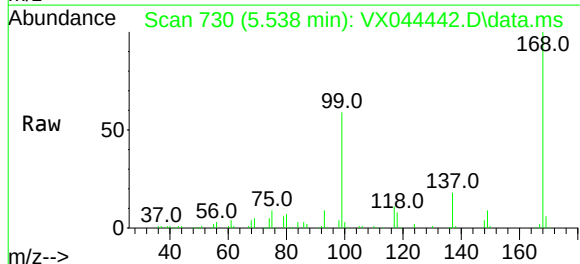
Quant Time: Dec 20 22:22:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 73
Delta R.T. -0.012 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

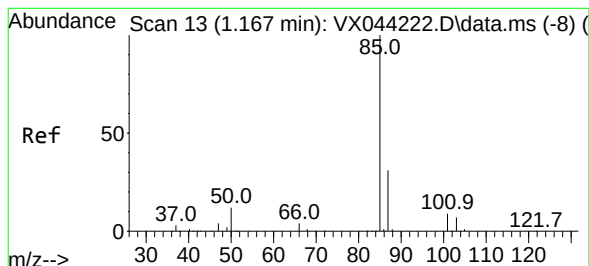
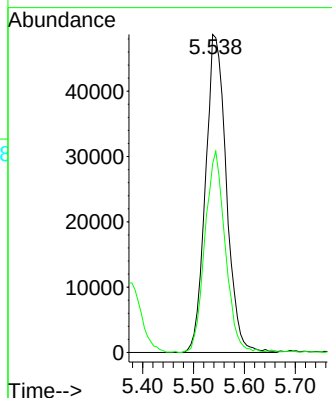
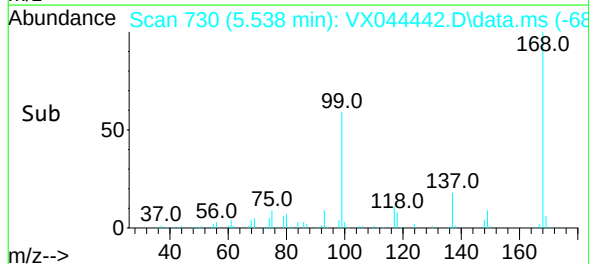
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01



Tgt Ion: 168 Resp: 138719
Ion Ratio Lower Upper
168 100
99 59.4 53.4 80.0

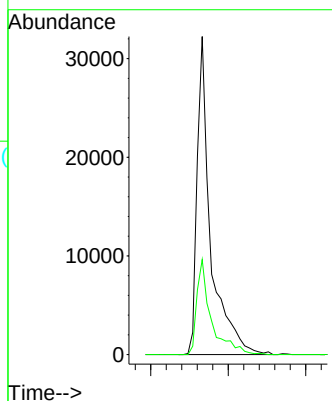
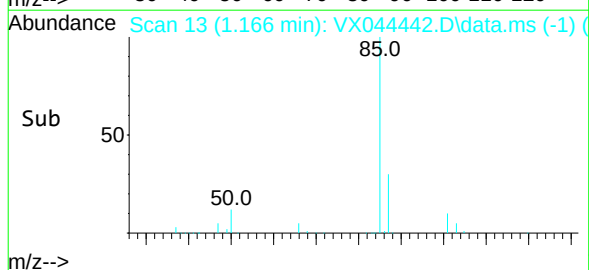
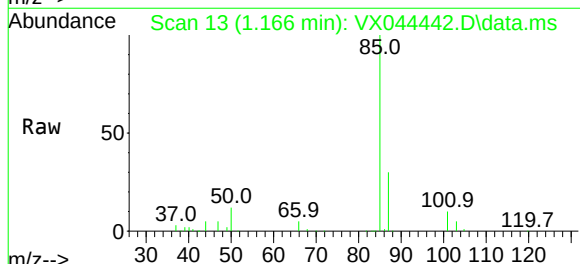
Manual Integrations
APPROVED

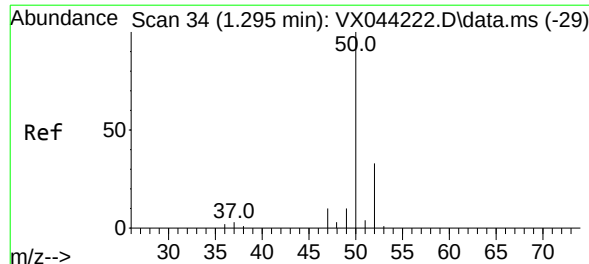
Reviewed By : Semsettin Yesilyurt 12/23/2024
Supervised By : Mahesh Dadoda 12/24/2024



#2
Dichlorodifluoromethane
Concen: 18.216 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 85 Resp: 39072
Ion Ratio Lower Upper
85 100
87 29.9 15.4 46.4





#3

Chloromethane

Concen: 18.735 ug/l

RT: 1.294 min Scan# 34

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion: 50 Resp: 38429

Ion Ratio Lower Upper

50 100

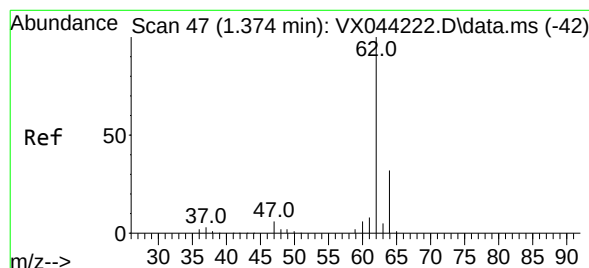
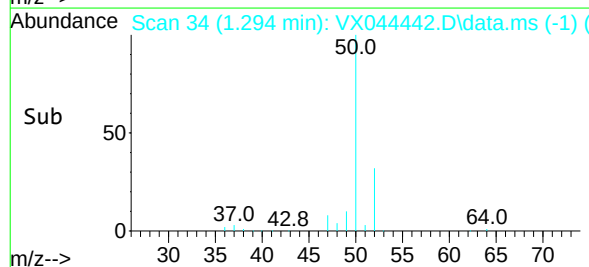
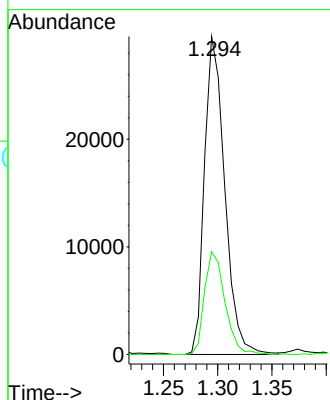
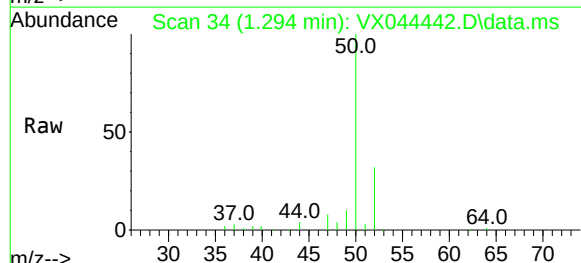
52 32.3 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#4

Vinyl Chloride

Concen: 18.090 ug/l

RT: 1.374 min Scan# 47

Delta R.T. -0.000 min

Lab File: VX044442.D

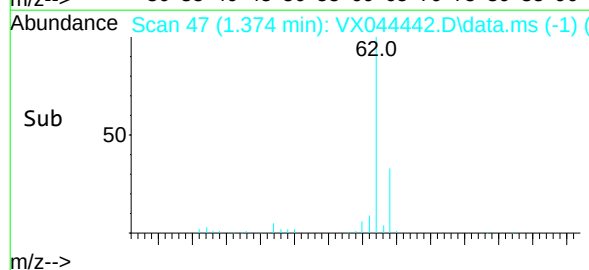
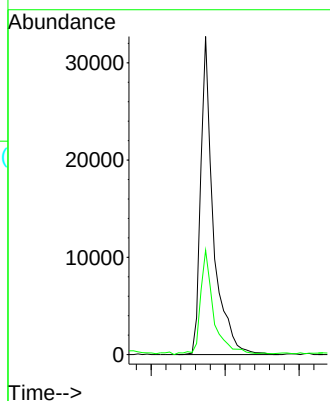
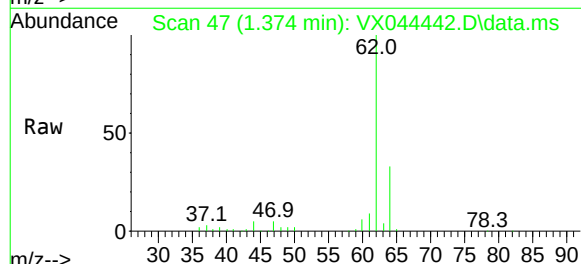
Acq: 20 Dec 2024 11:16

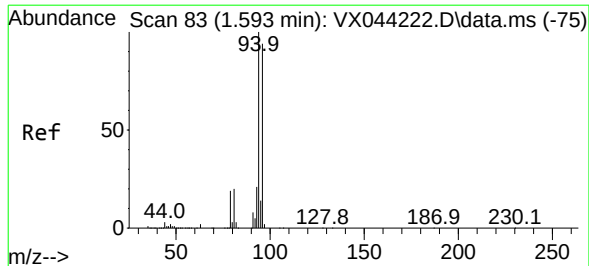
Tgt Ion: 62 Resp: 38657

Ion Ratio Lower Upper

62 100

64 32.4 25.7 38.5





#5

Bromomethane

Concen: 18.096 ug/l

RT: 1.593 min Scan# 83

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion: 94 Resp: 27434

Ion Ratio Lower Upper

94 100

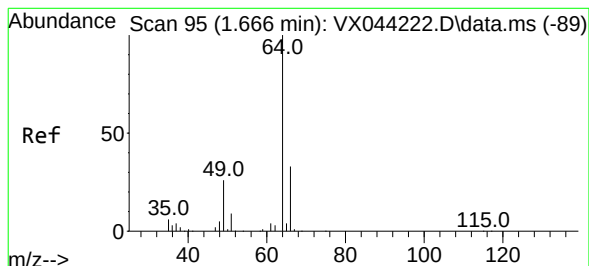
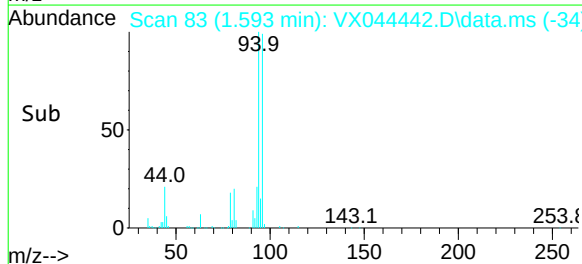
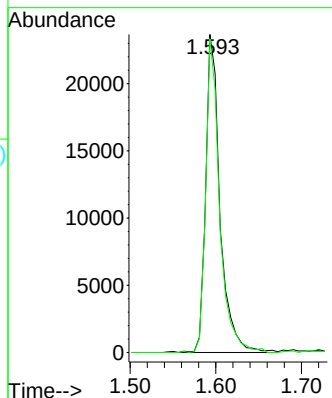
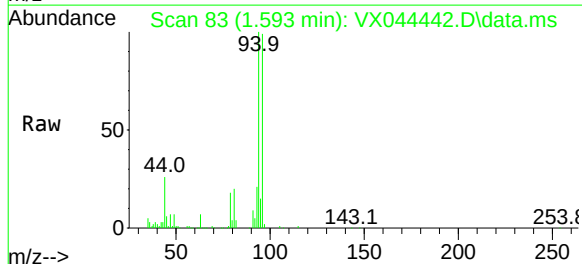
96 98.6 74.9 112.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#6

Chloroethane

Concen: 20.283 ug/l

RT: 1.666 min Scan# 95

Delta R.T. -0.000 min

Lab File: VX044442.D

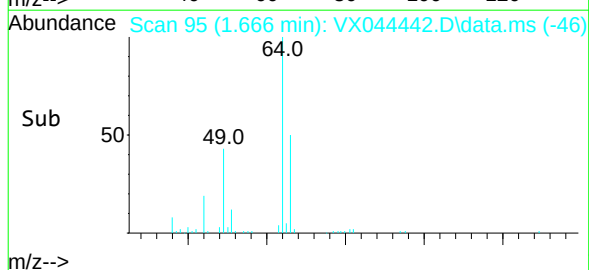
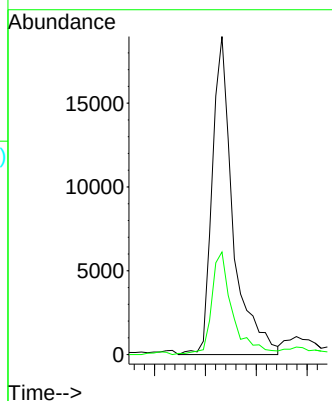
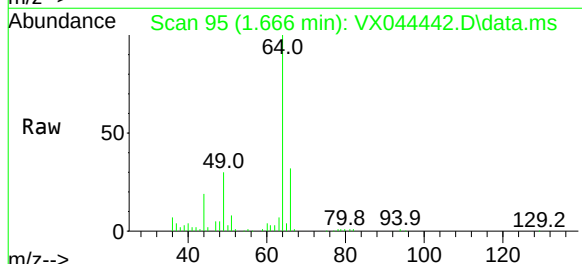
Acq: 20 Dec 2024 11:16

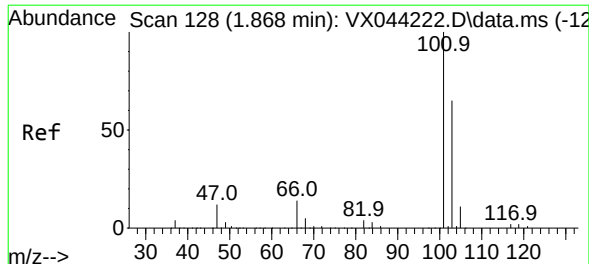
Tgt Ion: 64 Resp: 26989

Ion Ratio Lower Upper

64 100

66 31.9 26.6 39.8





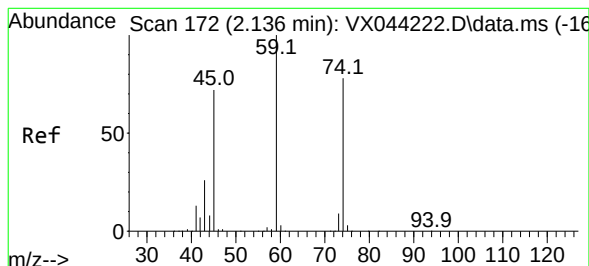
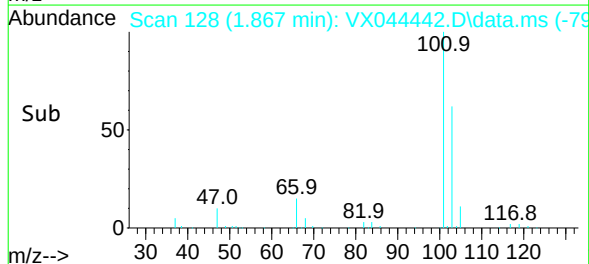
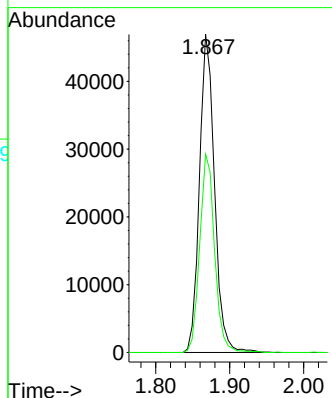
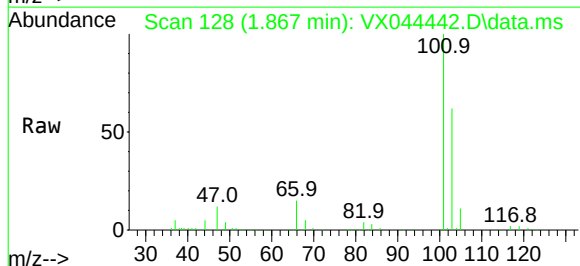
Trichlorofluoromethane
 Concen: 15.855 ug/l
 RT: 1.867 min Scan# 128
 Delta R.T. -0.000 min
 Lab File: VX044442.D
 Acq: 20 Dec 2024 11:16

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1220WBSD01

Tgt Ion: 101 Resp: 66329
 Ion Ratio Lower Upper
 101 100
 103 62.4 51.8 77.8

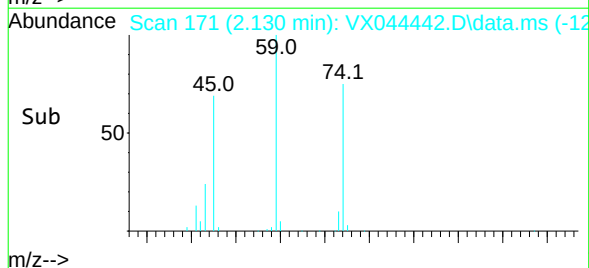
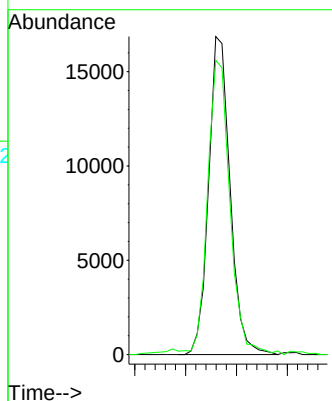
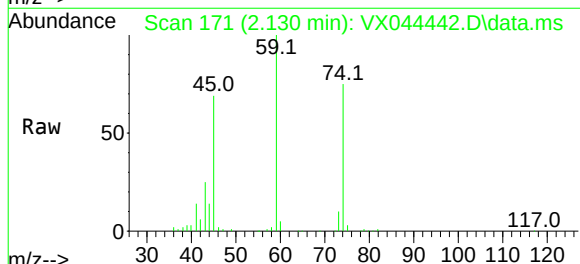
Manual Integrations
 APPROVED

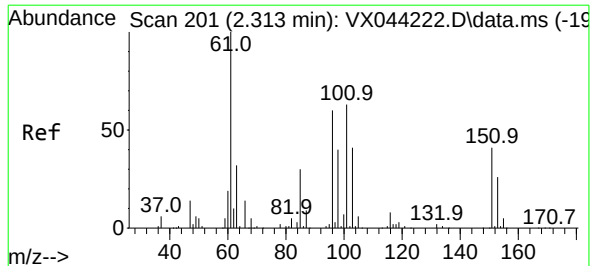
Reviewed By : Semsettin Yesilyurt 12/23/2024
 Supervised By : Mahesh Dadoda 12/24/2024



Diethyl Ether
 Concen: 17.320 ug/l
 RT: 2.130 min Scan# 171
 Delta R.T. -0.006 min
 Lab File: VX044442.D
 Acq: 20 Dec 2024 11:16

Tgt Ion: 74 Resp: 24733
 Ion Ratio Lower Upper
 74 100
 45 96.1 48.4 145.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.346 ug/l

RT: 2.319 min Scan# 201

Delta R.T. 0.006 min

Lab File: VX044442.D

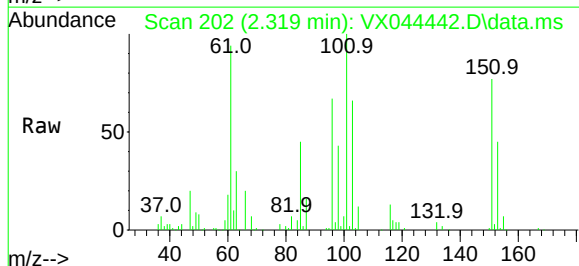
Acq: 20 Dec 2024 11:16

Instrument :

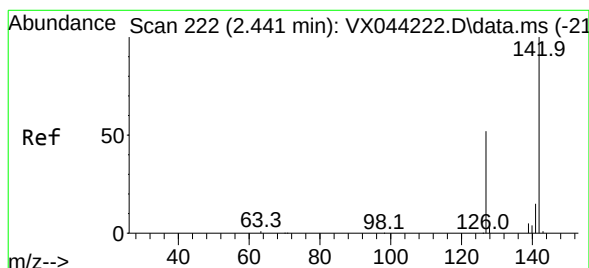
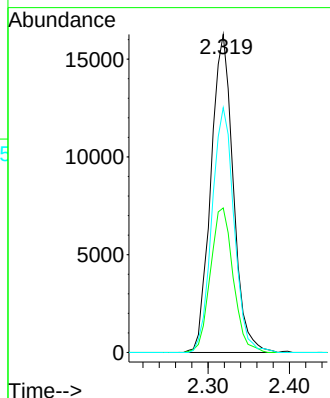
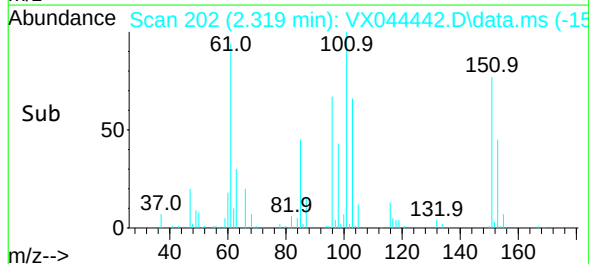
MSVOA_X

ClientSampleId :

VX1220WBSD01



Tgt Ion	101	Resp	31056
Ion Ratio	Lower	Upper	
101	100		
85	46.3	38.5	57.7
151	76.3	55.8	83.6

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

#10

Methyl Iodide

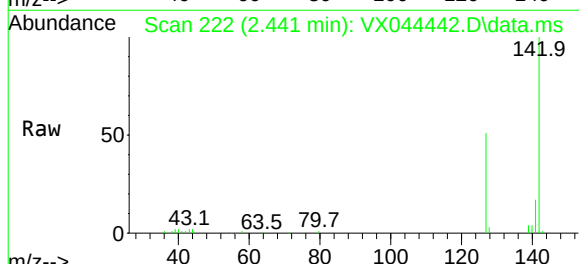
Concen: 19.029 ug/l

RT: 2.441 min Scan# 222

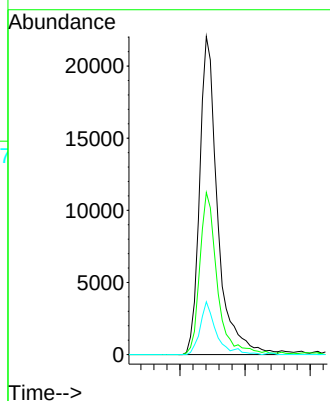
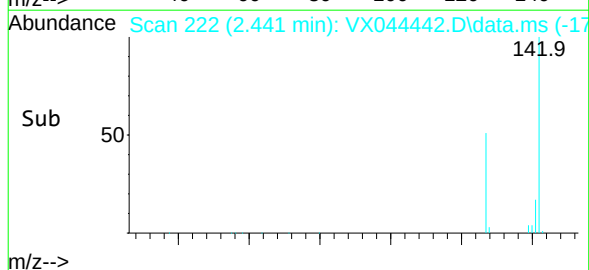
Delta R.T. -0.000 min

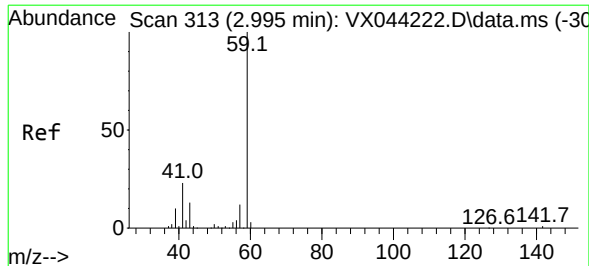
Lab File: VX044442.D

Acq: 20 Dec 2024 11:16



Tgt Ion	142	Resp	42456
Ion Ratio	Lower	Upper	
142	100		
127	49.2	41.8	62.8
141	14.8	11.5	17.3





#11

Tert butyl alcohol

Concen: 82.901 ug/l

RT: 2.989 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion: 59 Resp: 28417

Ion Ratio Lower Upper

59 100

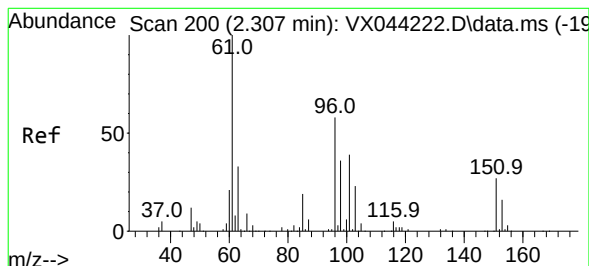
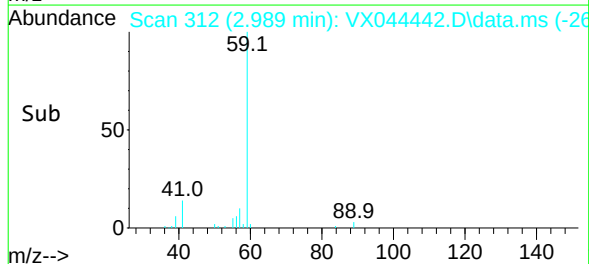
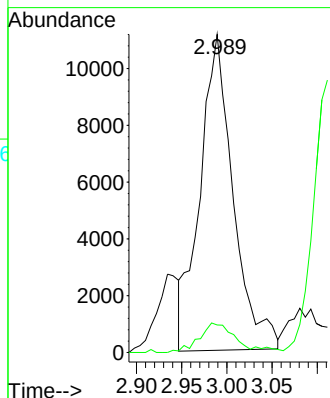
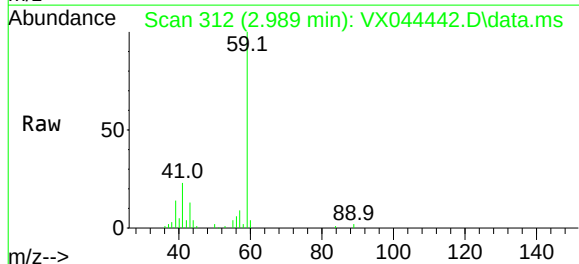
57 9.4 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#12

1,1-Dichloroethene

Concen: 18.587 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

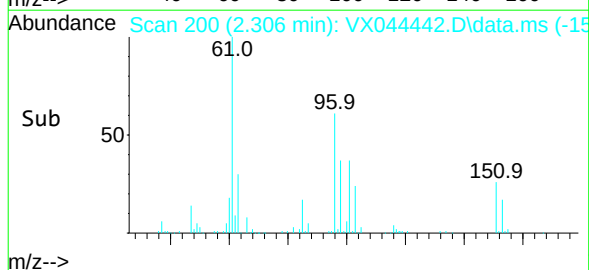
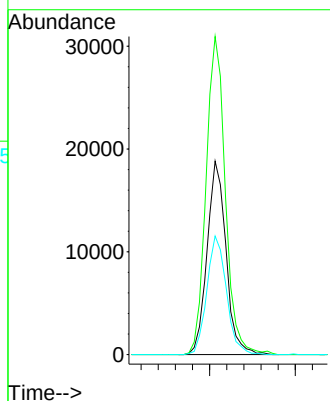
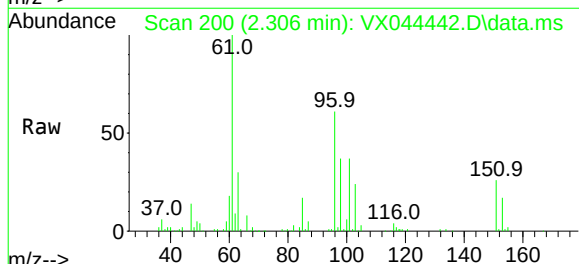
Tgt Ion: 96 Resp: 28901

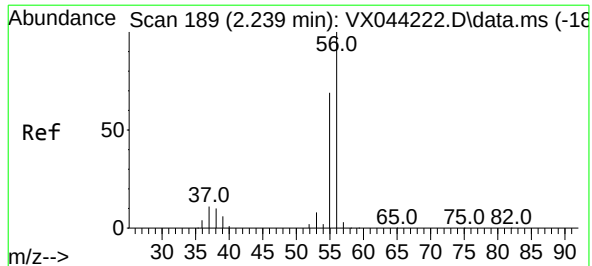
Ion Ratio Lower Upper

96 100

61 164.5 138.0 207.0

98 61.3 50.0 75.0





#13

Acrolein

Concen: 86.114 ug/l

RT: 2.239 min Scan# 189

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion: 56 Resp: 42729

Ion Ratio Lower Upper

56 100

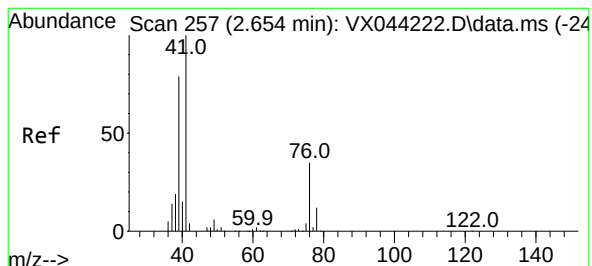
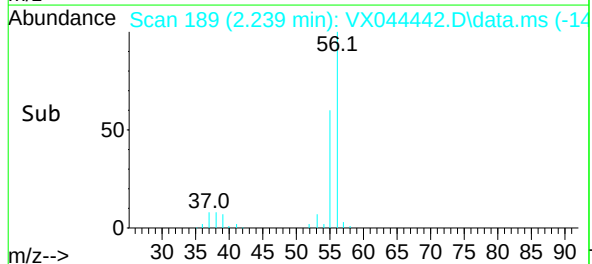
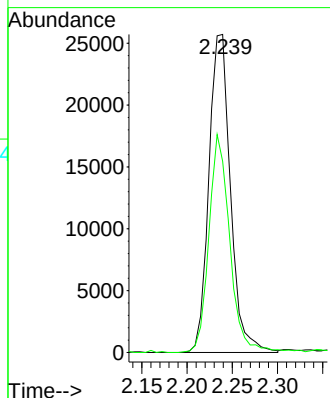
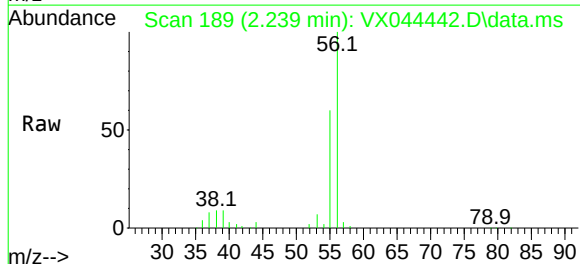
55 66.6 56.6 84.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#14

Allyl chloride

Concen: 17.897 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

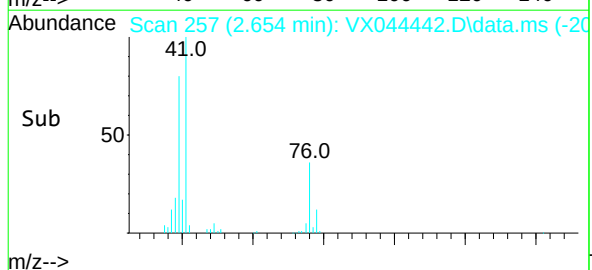
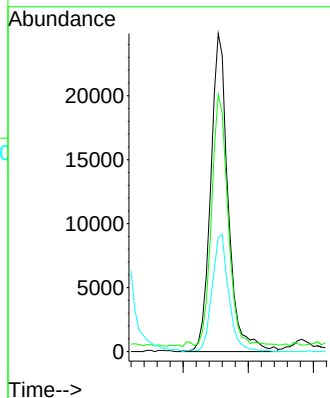
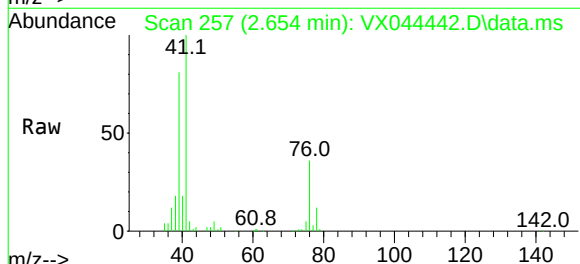
Tgt Ion: 41 Resp: 46350

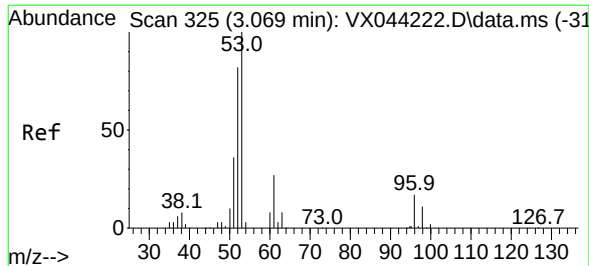
Ion Ratio Lower Upper

41 100

39 74.0 61.9 92.9

76 35.2 27.4 41.2





#15

Acrylonitrile

Concen: 95.622 ug/l

RT: 3.062 min Scan# 32

Delta R.T. -0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

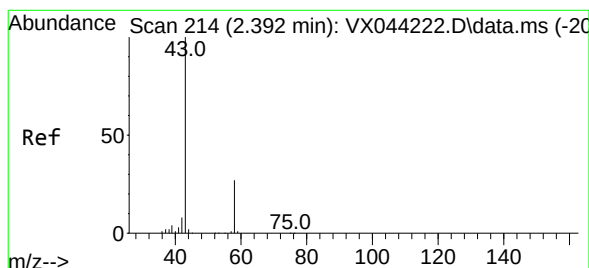
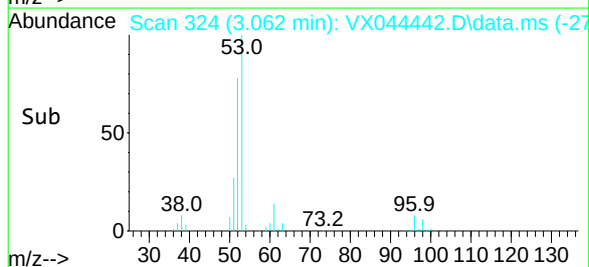
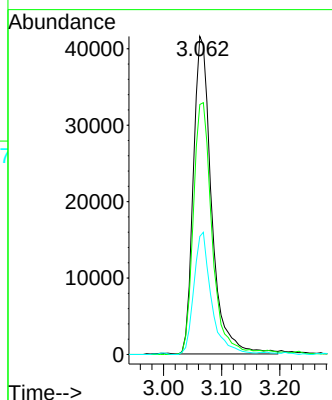
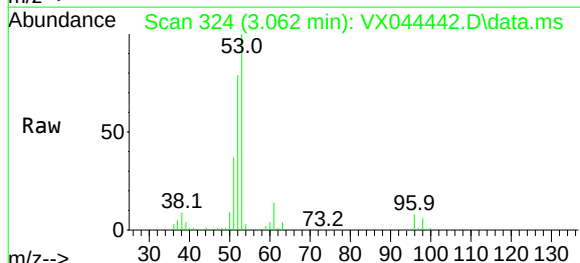
ClientSampleId :

VX1220WBSD01

Tgt Ion:	53	Resp:	90796
Ion	Ratio	Lower	Upper
53	100		
52	80.9	67.4	101.0
51	37.2	30.3	45.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#16

Acetone

Concen: 79.124 ug/l

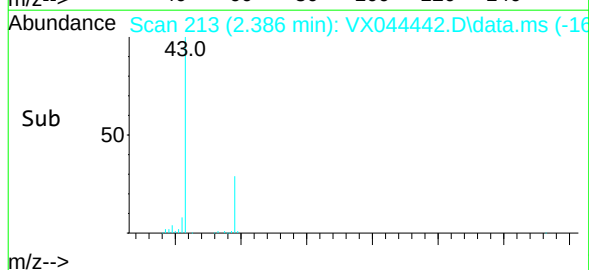
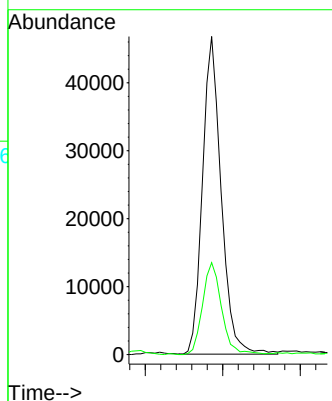
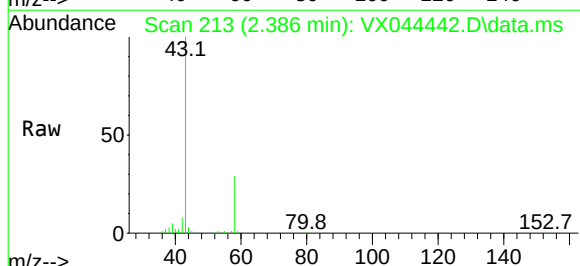
RT: 2.386 min Scan# 213

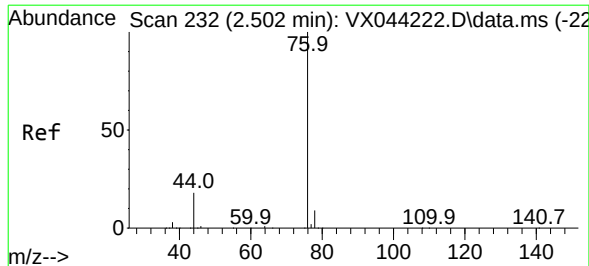
Delta R.T. -0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Tgt Ion:	43	Resp:	78457
Ion	Ratio	Lower	Upper
43	100		
58	29.0	21.6	32.4





#17

Carbon Disulfide

Concen: 16.777 ug/l

RT: 2.501 min Scan# 23

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Tgt Ion: 76 Resp: 49587

Ion Ratio Lower Upper

76 100

78 9.5 7.4 11.0

Instrument :

MSVOA_X

ClientSampleId :

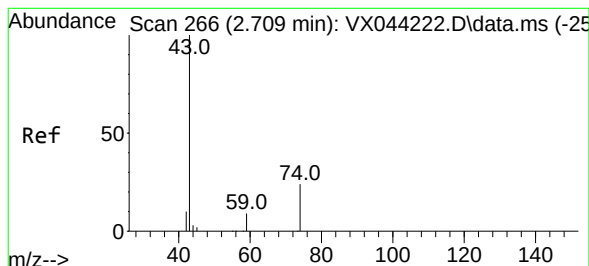
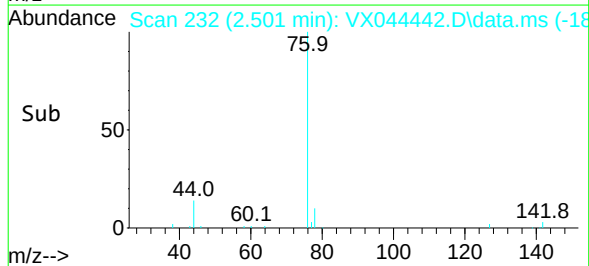
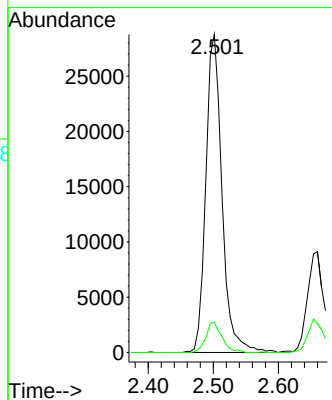
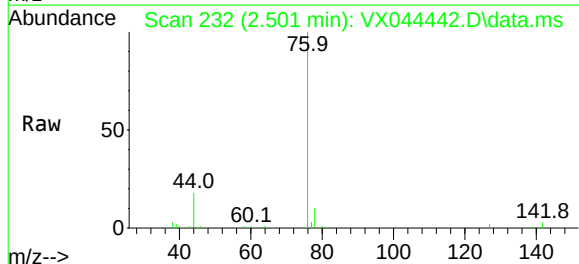
VX1220WBSD01

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#18

Methyl Acetate

Concen: 18.305 ug/l

RT: 2.703 min Scan# 265

Delta R.T. -0.006 min

Lab File: VX044442.D

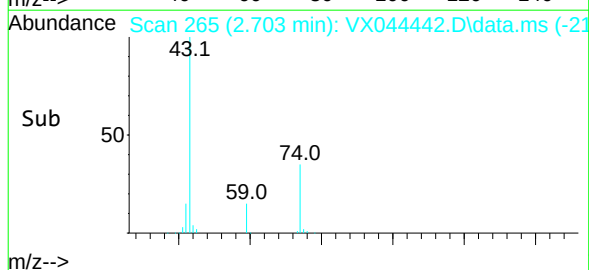
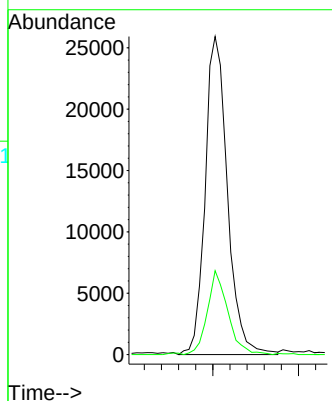
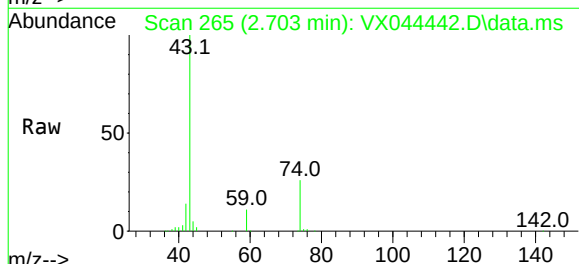
Acq: 20 Dec 2024 11:16

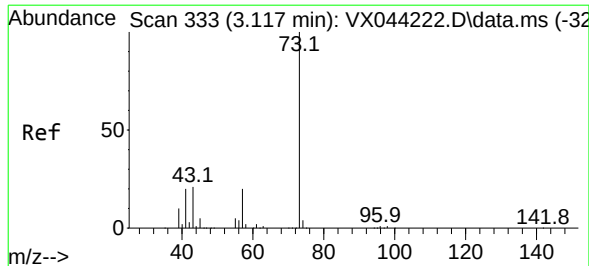
Tgt Ion: 43 Resp: 46799

Ion Ratio Lower Upper

43 100

74 24.2 17.7 26.5





#19

Methyl tert-butyl Ether

Concen: 17.981 ug/l

RT: 3.117 min Scan# 333

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion: 73 Resp: 109105

Ion Ratio Lower Upper

73 100

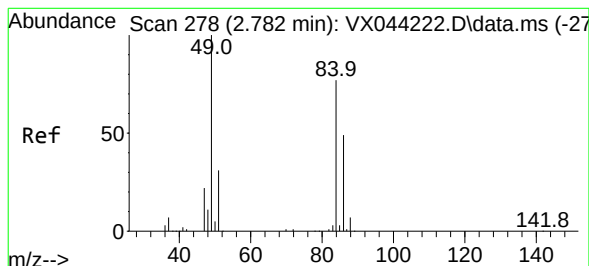
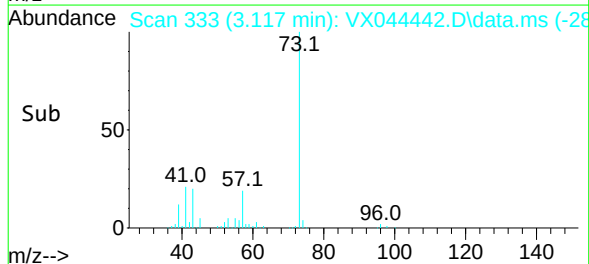
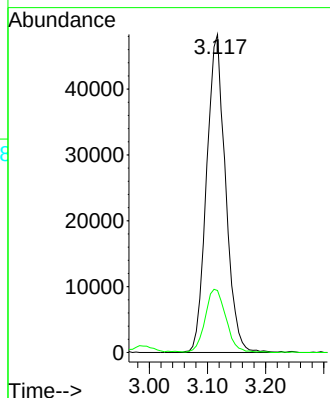
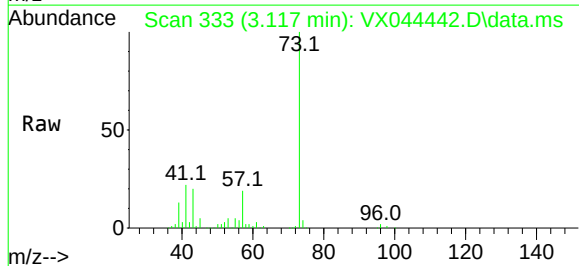
57 19.5 16.2 24.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#20

Methylene Chloride

Concen: 19.005 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Tgt Ion: 84 Resp: 35395

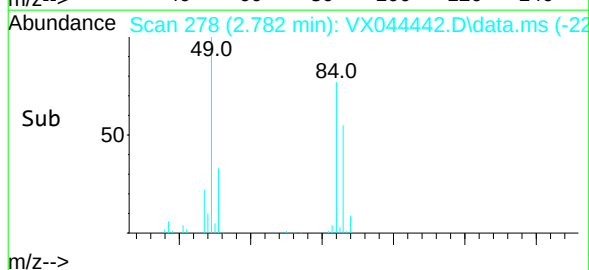
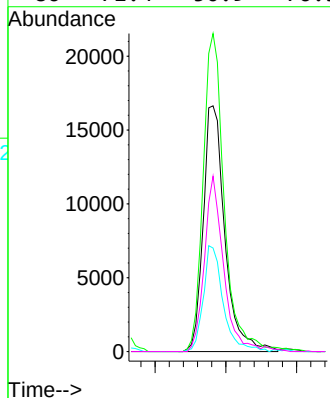
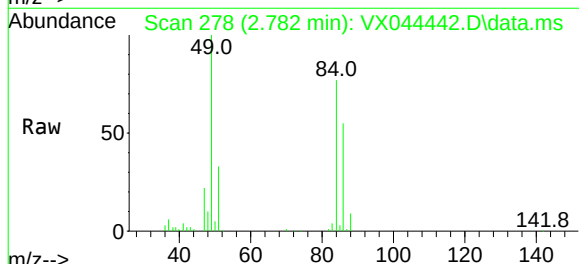
Ion Ratio Lower Upper

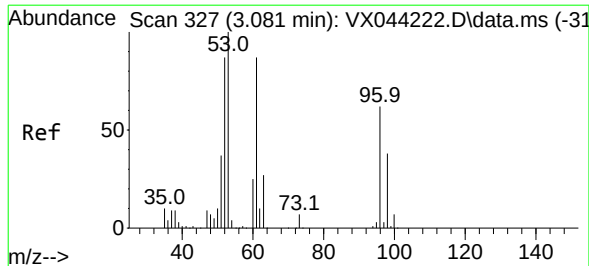
84 100

49 129.4 104.2 156.4

51 42.1 32.2 48.4

86 71.4 50.9 76.3





#21

trans-1,2-Dichloroethene

Concen: 17.931 ug/l

RT: 3.087 min Scan# 32

Delta R.T. 0.006 min

Lab File: VX044442.D

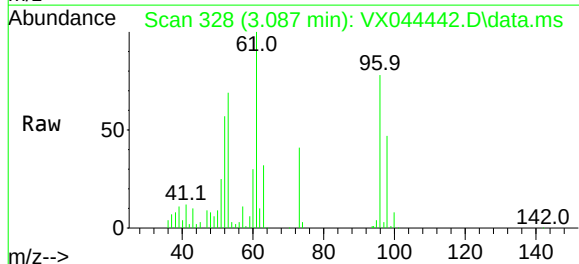
Acq: 20 Dec 2024 11:16

Instrument :

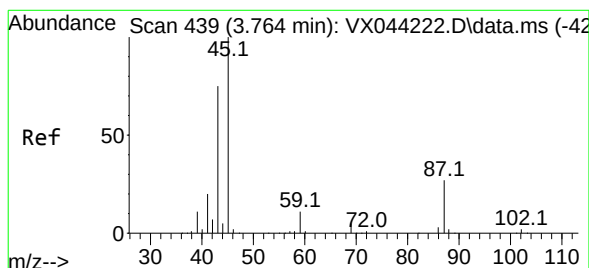
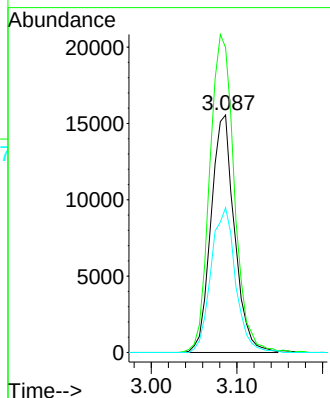
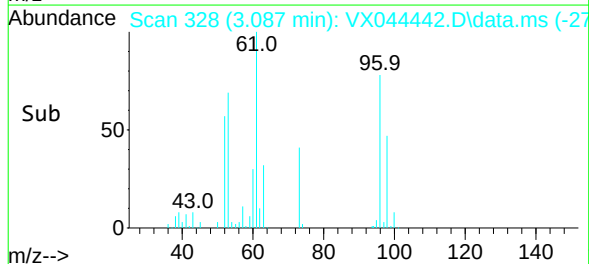
MSVOA_X

ClientSampleId :

VX1220WBSD01



Tgt Ion:	96	Resp:	29631
Ion	Ratio	Lower	Upper
96	100		
61	128.4	112.0	168.0
98	60.9	48.8	73.2

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

#22

Diisopropyl ether

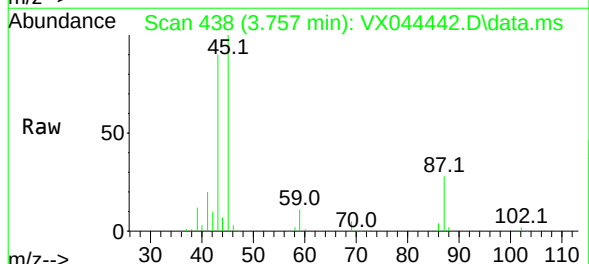
Concen: 18.182 ug/l

RT: 3.757 min Scan# 438

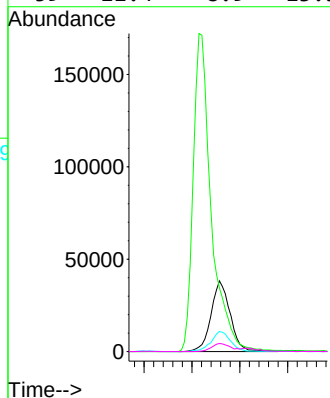
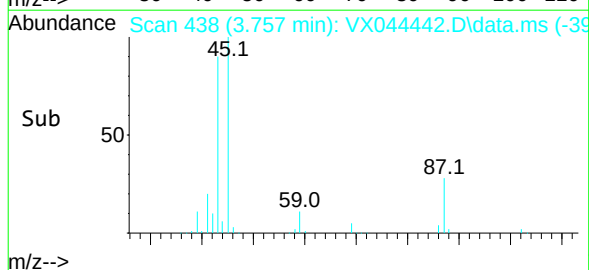
Delta R.T. -0.006 min

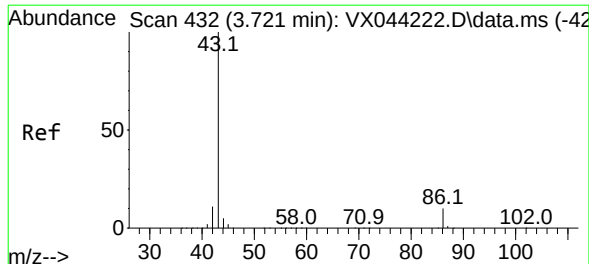
Lab File: VX044442.D

Acq: 20 Dec 2024 11:16



Tgt Ion:	45	Resp:	106036
Ion	Ratio	Lower	Upper
45	100		
43	90.1	60.2	90.2
87	28.4	21.2	31.8
59	11.4	8.9	13.3





#23

Vinyl Acetate

Concen: 95.526 ug/l

RT: 3.715 min Scan# 43

Delta R.T. -0.006 min

Lab File: VX044442.D

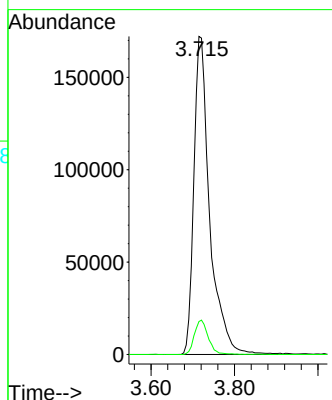
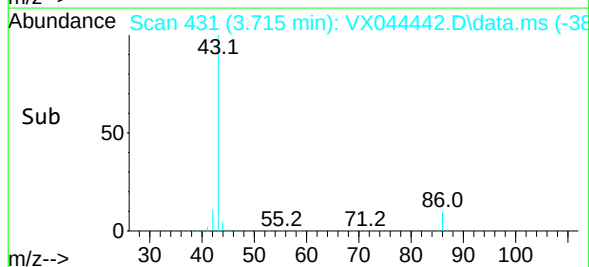
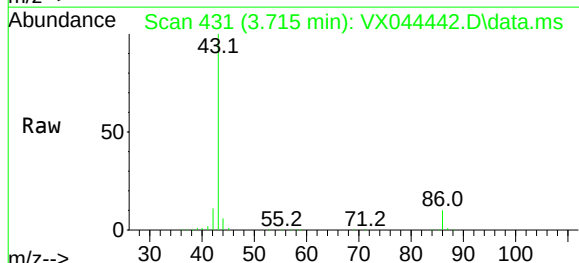
Acq: 20 Dec 2024 11:16

Tgt Ion: 43 Resp: 452921

Ion Ratio Lower Upper

43 100

86 10.4 8.2 12.2



Instrument :

MSVOA_X

ClientSampleId :

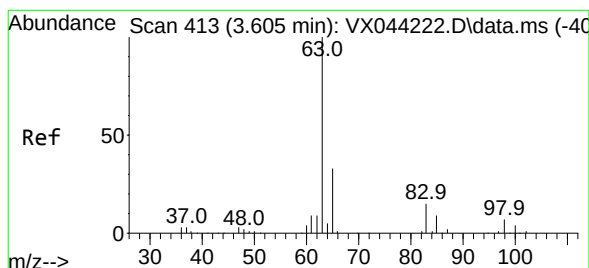
VX1220WBSD01

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#24

1,1-Dichloroethane

Concen: 18.417 ug/l

RT: 3.599 min Scan# 412

Delta R.T. -0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

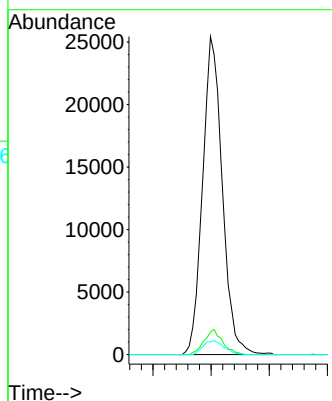
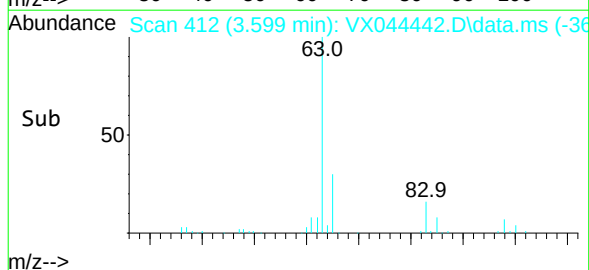
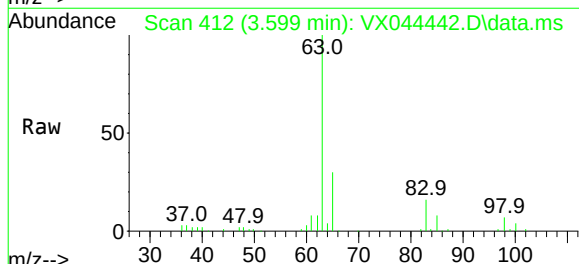
Tgt Ion: 63 Resp: 59870

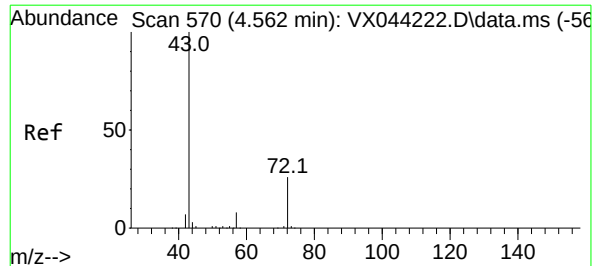
Ion Ratio Lower Upper

63 100

98 7.1 3.6 10.8

100 4.0 2.1 6.3





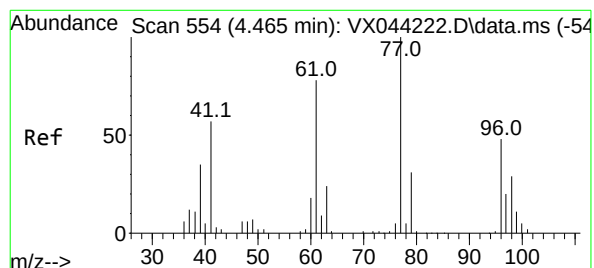
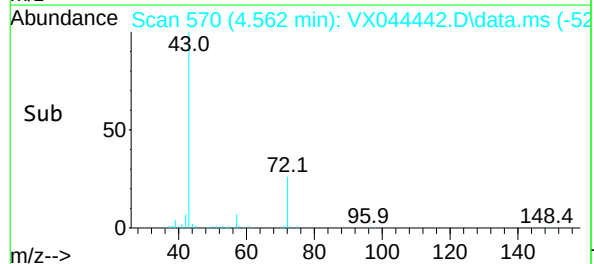
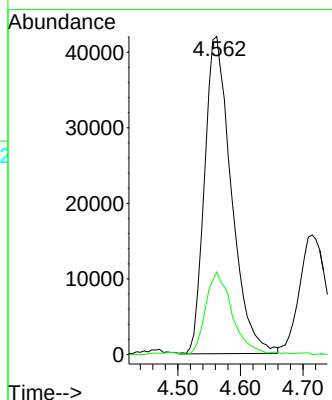
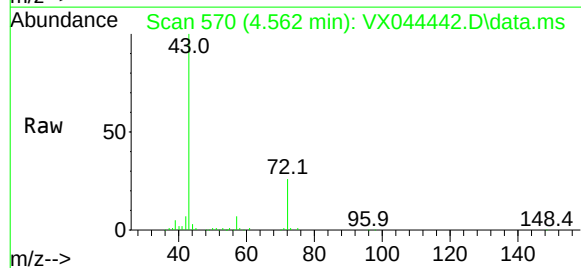
#25
2-Butanone
Concen: 88.514 ug/l
RT: 4.562 min Scan# 570
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

Tgt Ion: 43 Resp: 124774
Ion Ratio Lower Upper
43 100
72 25.8 20.2 30.4

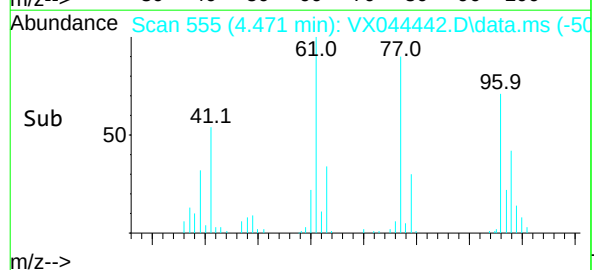
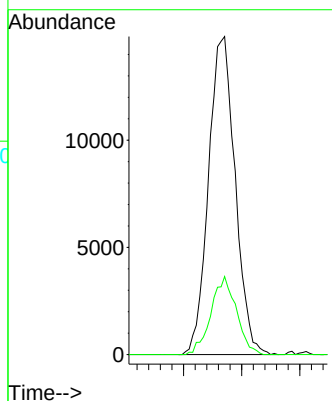
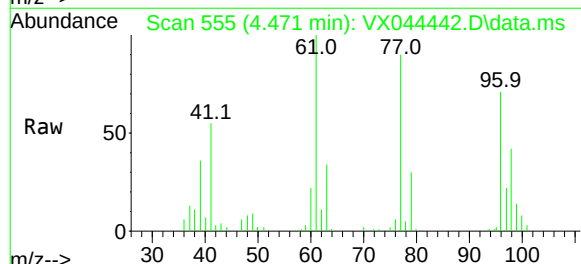
Manual Integrations
APPROVED

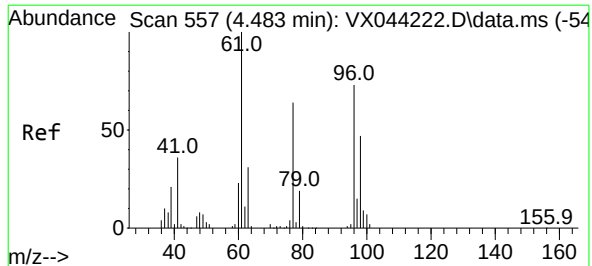
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#26
2,2-Dichloropropane
Concen: 17.886 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 77 Resp: 47237
Ion Ratio Lower Upper
77 100
97 23.5 10.7 32.1





#27

cis-1,2-Dichloroethene

Concen: 18.425 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion: 96 Resp: 38668

Ion Ratio Lower Upper

96 100

61 141.7 0.0 299.0

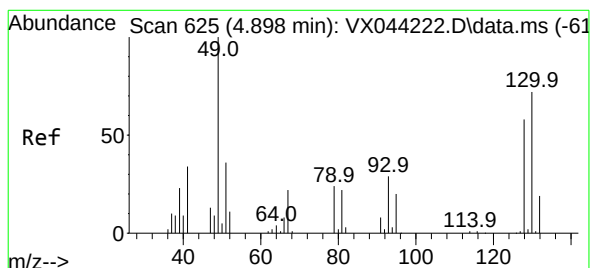
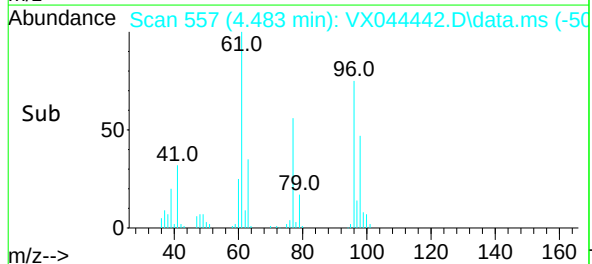
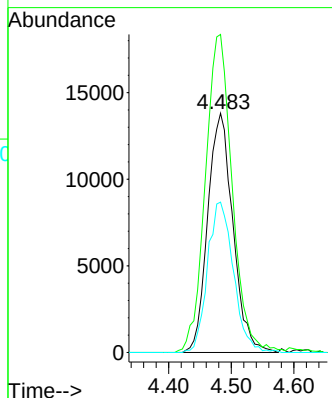
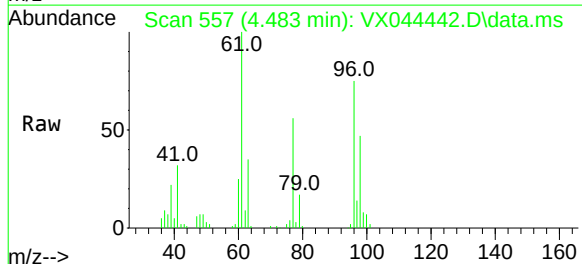
98 64.5 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#28

Bromochloromethane

Concen: 15.877 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

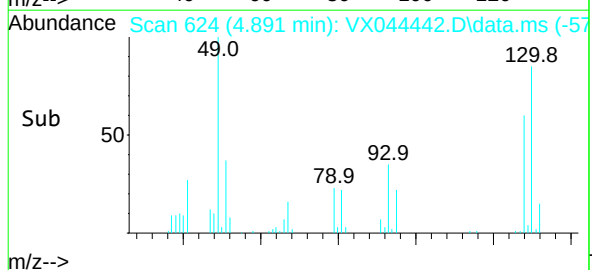
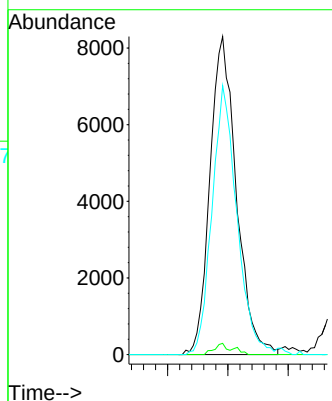
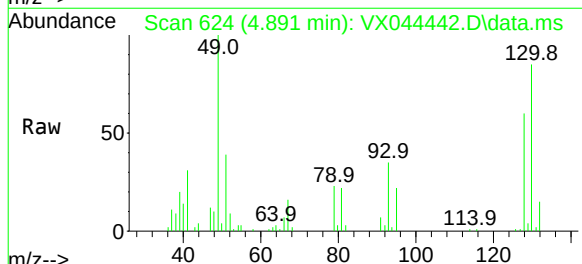
Tgt Ion: 49 Resp: 25309

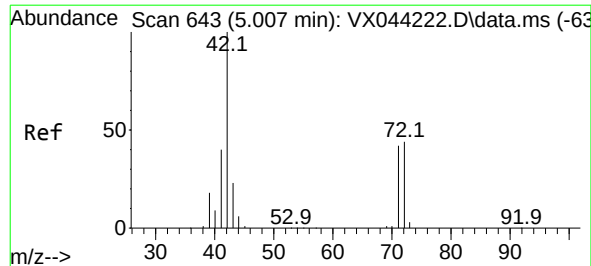
Ion Ratio Lower Upper

49 100

129 1.7 0.0 4.2

130 79.3 62.1 93.1





#29

Tetrahydrofuran

Concen: 88.318 ug/l

RT: 5.007 min Scan# 643

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Tgt Ion:	42	Resp:	79911
Ion	Ratio	Lower	Upper
42	100		
72	44.6	37.0	55.6
71	43.3	33.6	50.4

Instrument :

MSVOA_X

ClientSampleId :

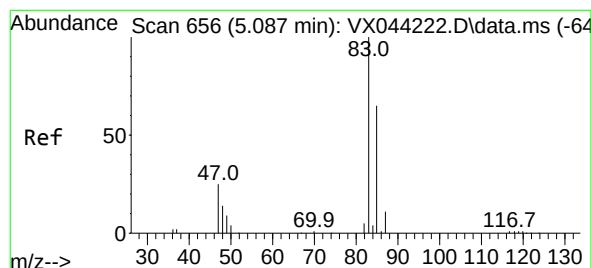
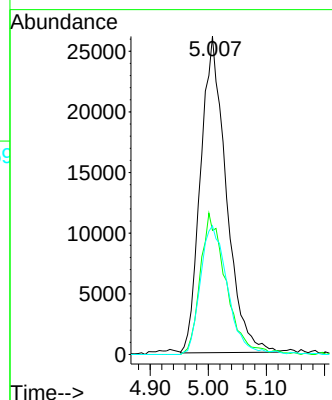
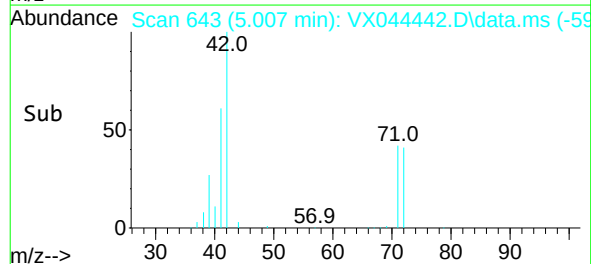
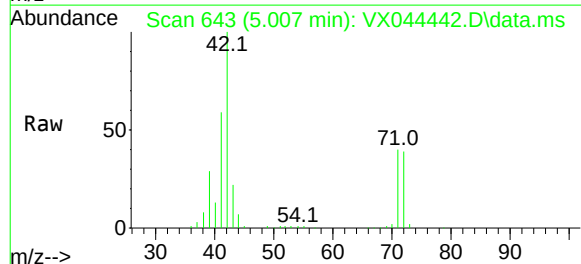
VX1220WBSD01

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#30

Chloroform

Concen: 18.293 ug/l

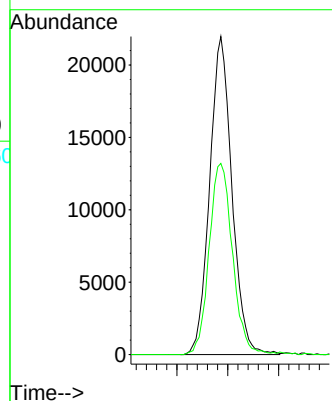
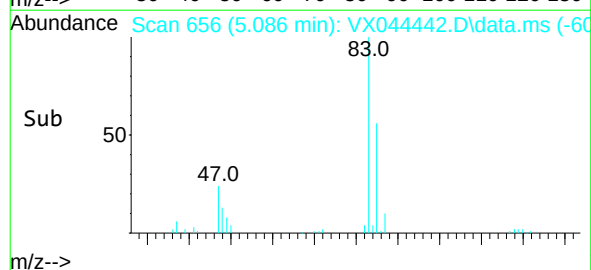
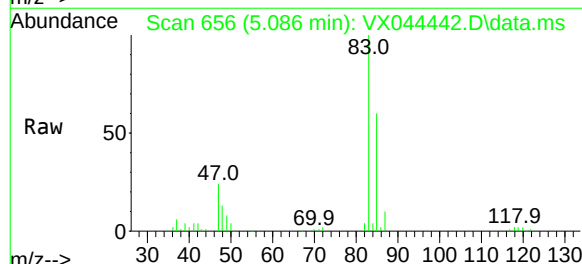
RT: 5.086 min Scan# 656

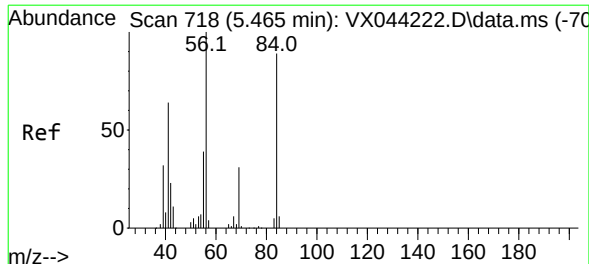
Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Tgt Ion:	83	Resp:	66814
Ion	Ratio	Lower	Upper
83	100		
85	60.1	51.6	77.4





#31

Cyclohexane

Concen: 17.676 ug/l

RT: 5.452 min Scan# 718

Delta R.T. -0.012 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion: 56 Resp: 46401

Ion Ratio Lower Upper

56 100

69 28.0 24.7 37.1

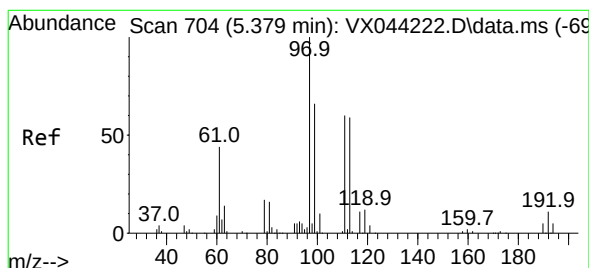
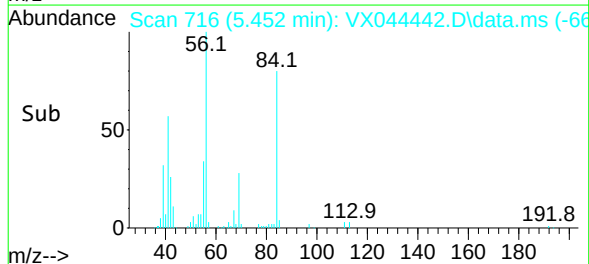
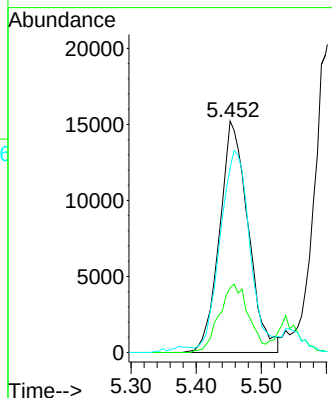
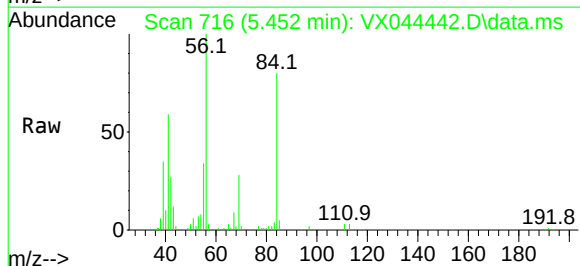
84 77.3 71.0 106.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#32

1,1,1-Trichloroethane

Concen: 17.450 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

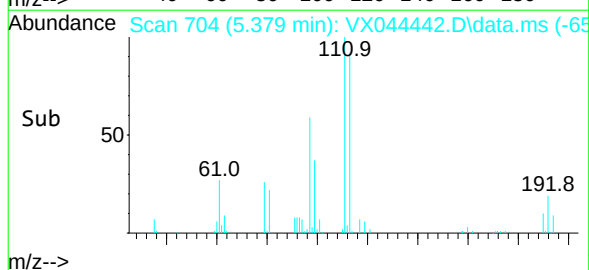
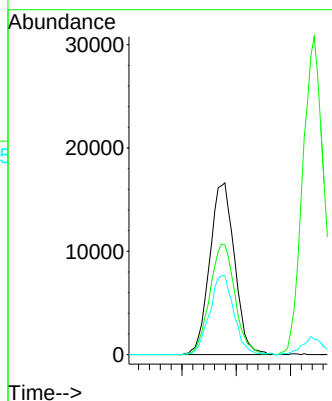
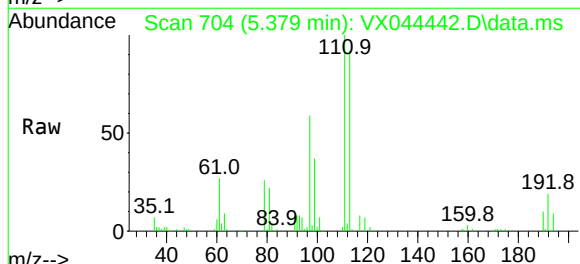
Tgt Ion: 97 Resp: 52904

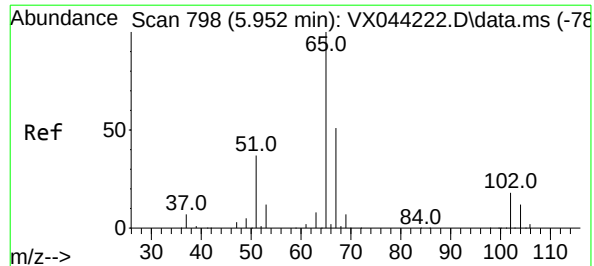
Ion Ratio Lower Upper

97 100

99 64.8 50.8 76.2

61 44.9 35.2 52.8





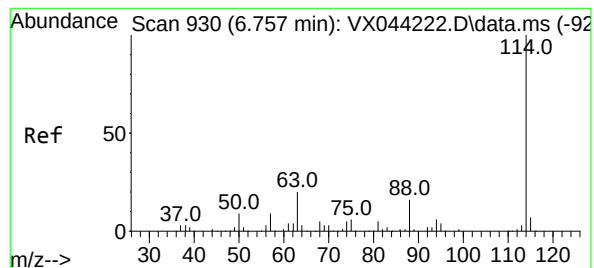
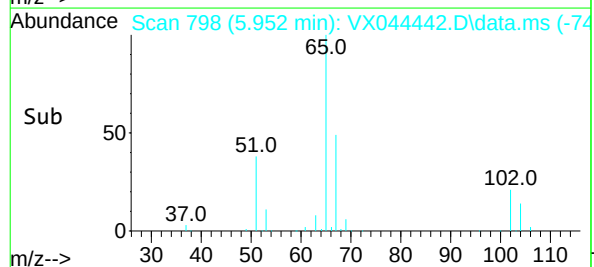
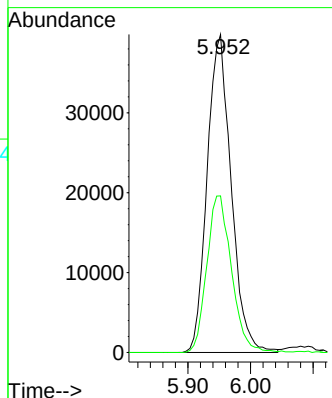
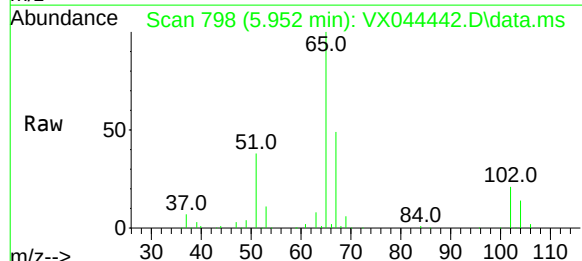
#33
1,2-Dichloroethane-d4
Concen: 43.606 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

Tgt Ion: 65 Resp: 106058
Ion Ratio Lower Upper
65 100
67 50.8 0.0 101.6

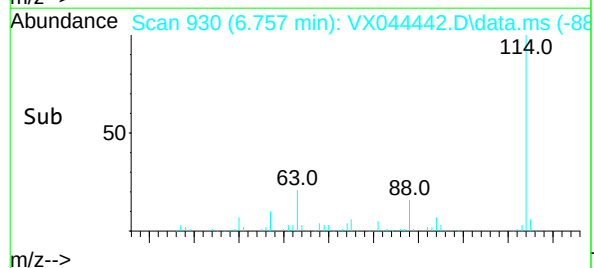
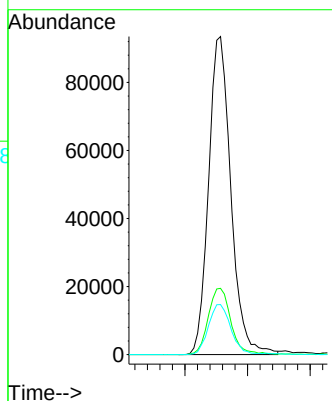
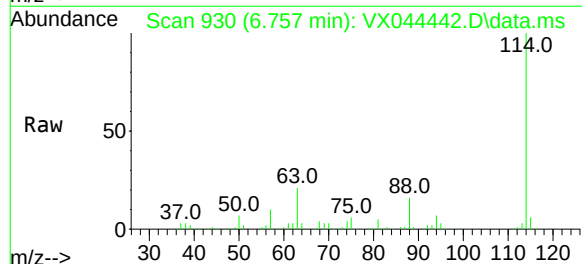
Manual Integrations
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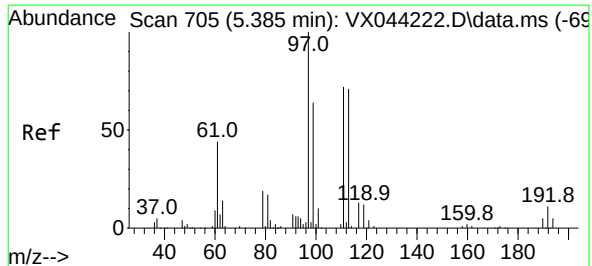
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion:114 Resp: 231232
Ion Ratio Lower Upper
114 100
63 20.8 0.0 40.6
88 15.7 0.0 31.8





#35

Dibromofluoromethane

Concen: 49.260 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion:113 Resp: 78896

Ion Ratio Lower Upper

113 100

111 104.6 80.4 120.6

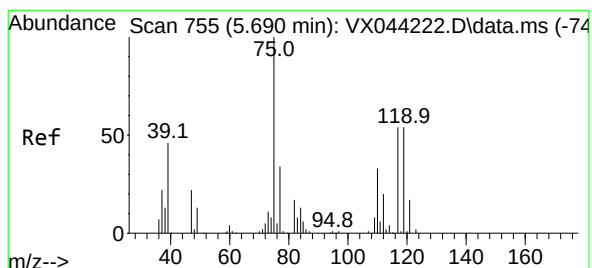
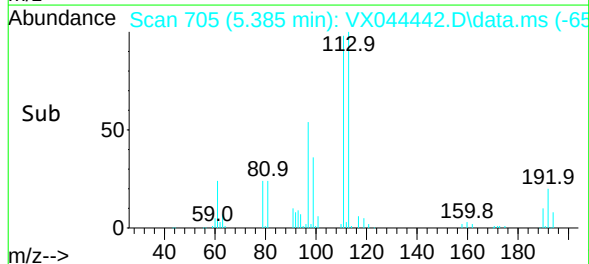
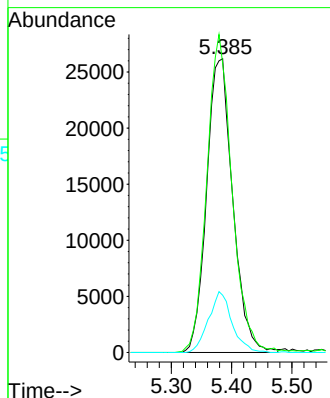
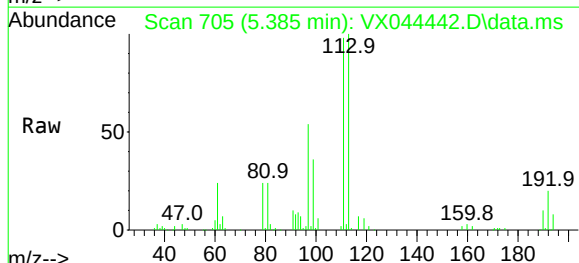
192 18.6 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#36

1,1-Dichloropropene

Concen: 19.123 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

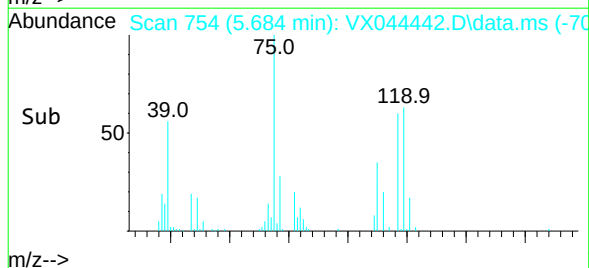
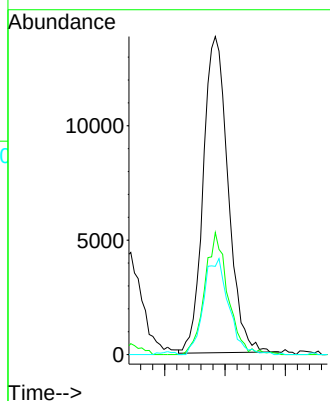
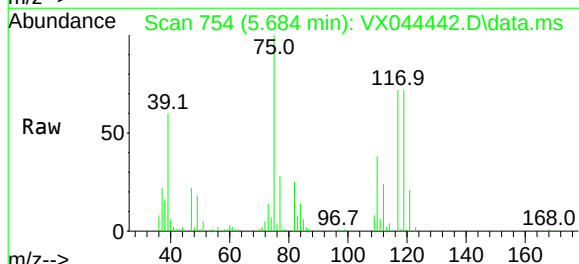
Tgt Ion: 75 Resp: 39588

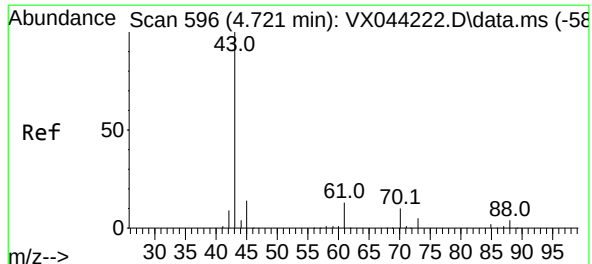
Ion Ratio Lower Upper

75 100

110 36.2 17.3 51.7

77 30.7 25.4 38.0





#37

Ethyl Acetate

Concen: 19.839 ug/l

RT: 4.715 min Scan# 59

Delta R.T. -0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

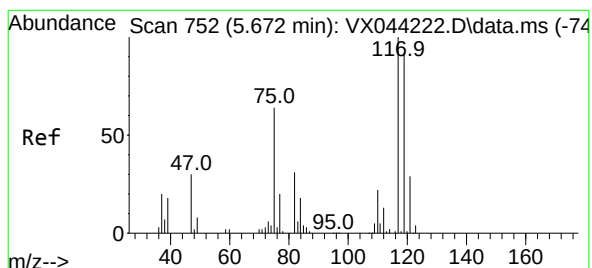
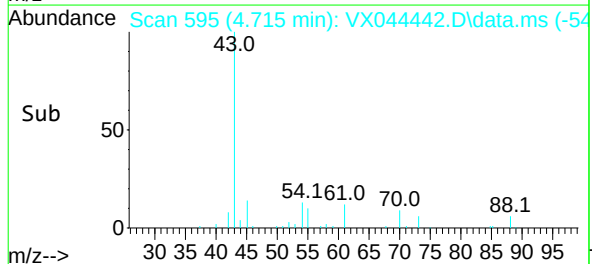
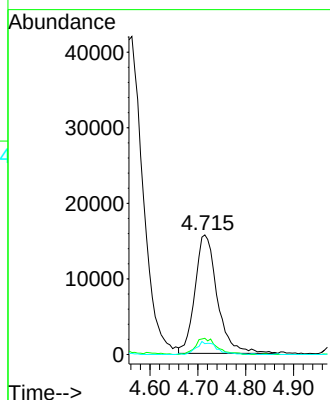
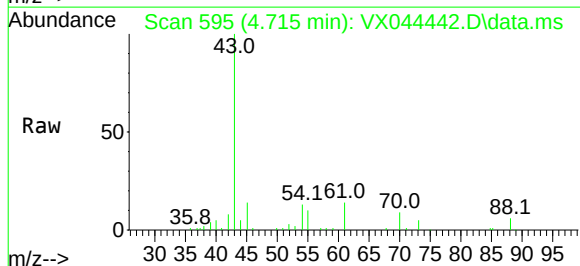
ClientSampleId :

VX1220WBSD01

Tgt Ion:	43	Resp:	50767
Ion	Ratio	Lower	Upper
43	100		
61	13.0	9.8	14.8
70	9.7	7.7	11.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#38

Carbon Tetrachloride

Concen: 18.922 ug/l

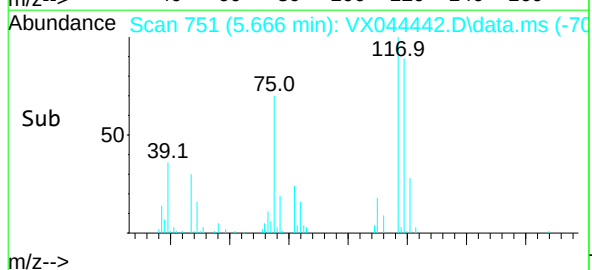
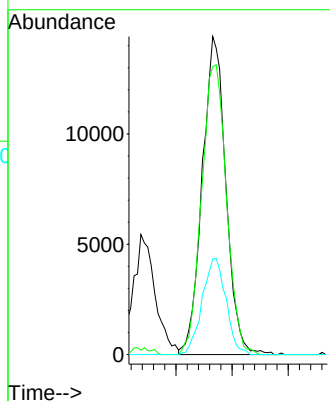
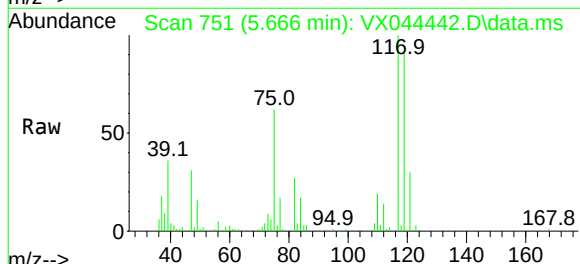
RT: 5.666 min Scan# 751

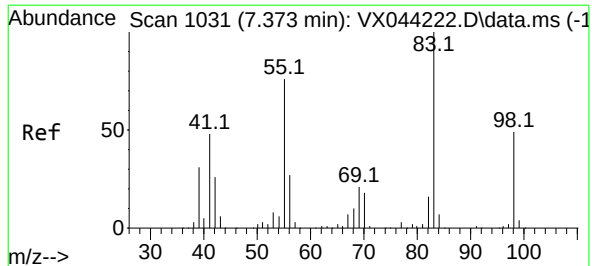
Delta R.T. -0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Tgt Ion:	117	Resp:	42171
Ion	Ratio	Lower	Upper
117	100		
119	90.6	74.2	111.4
121	30.0	23.0	34.6





#39

Methylcyclohexane

Concen: 19.613 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion: 83 Resp: 48538

Ion Ratio Lower Upper

83 100

55 79.1 60.7 91.1

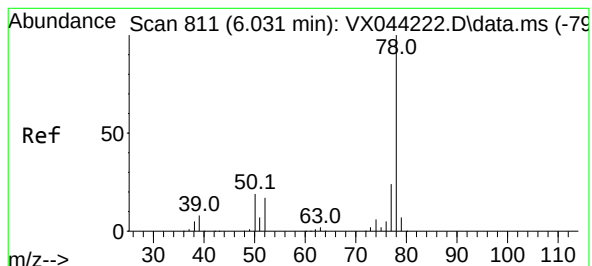
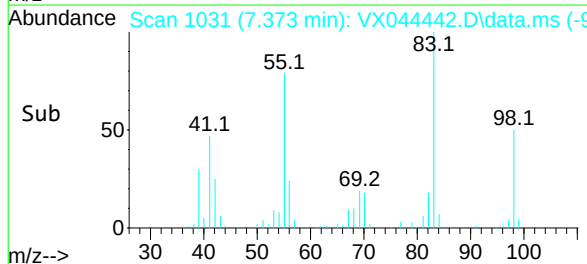
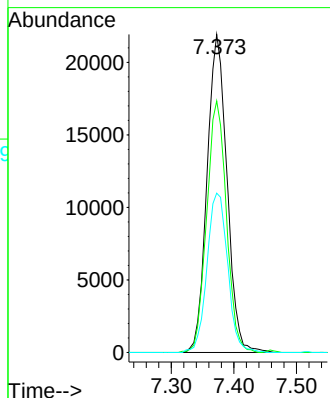
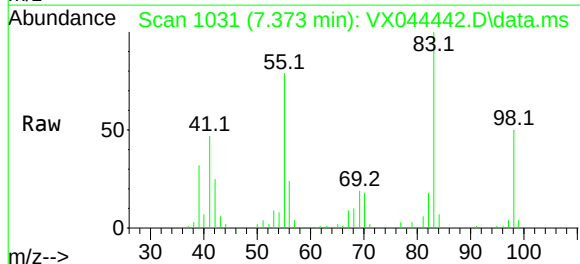
98 50.1 38.9 58.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#40

Benzene

Concen: 20.770 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX044442.D

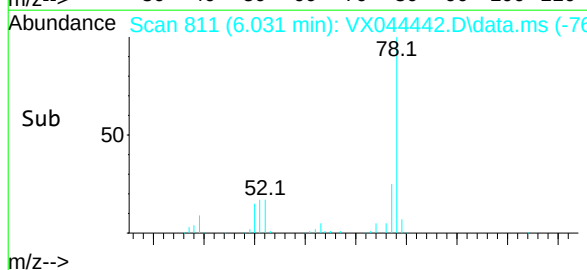
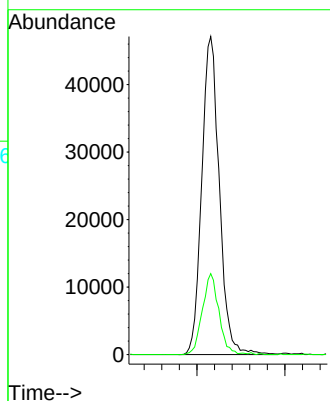
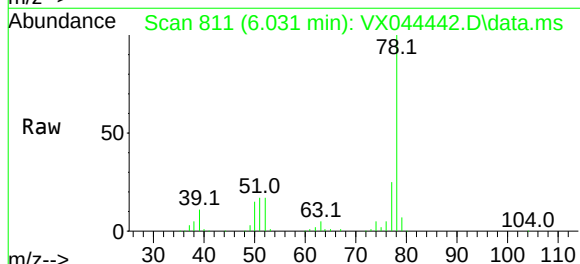
Acq: 20 Dec 2024 11:16

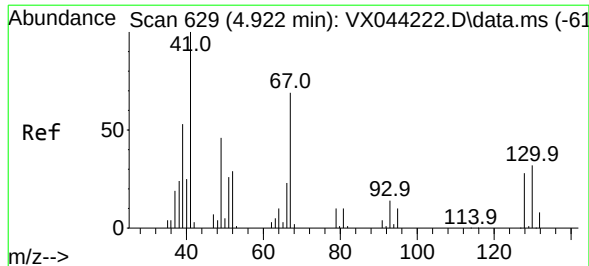
Tgt Ion: 78 Resp: 130546

Ion Ratio Lower Upper

78 100

77 25.5 19.3 28.9





#41

Methacrylonitrile

Concen: 19.955 ug/l

RT: 4.922 min Scan# 62

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Tgt Ion: 41 Resp: 27115

Ion Ratio Lower Upper

41 100

39 57.3 44.2 66.4

67 73.3 57.2 85.8

52 33.0 24.6 37.0

Instrument :

MSVOA_X

ClientSampleId :

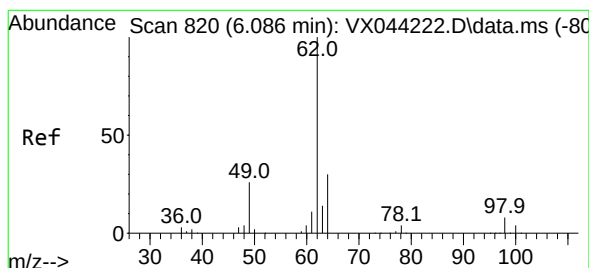
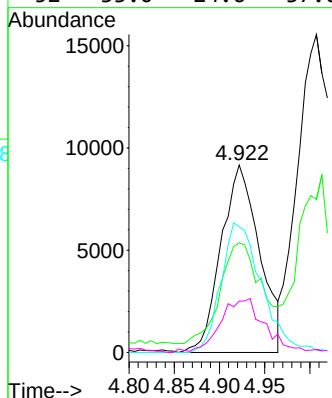
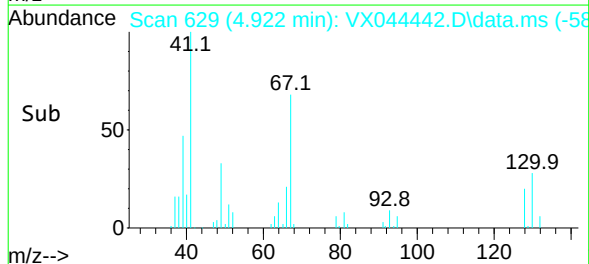
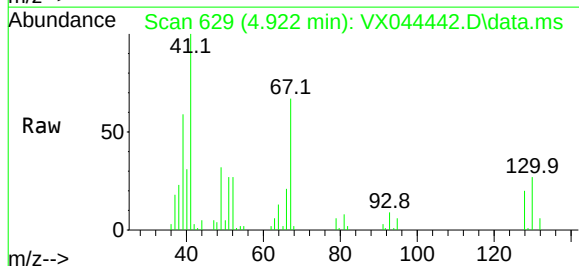
VX1220WBSD01

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#42

1,2-Dichloroethane

Concen: 19.765 ug/l

RT: 6.080 min Scan# 819

Delta R.T. -0.006 min

Lab File: VX044442.D

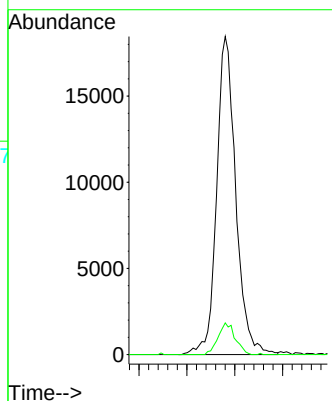
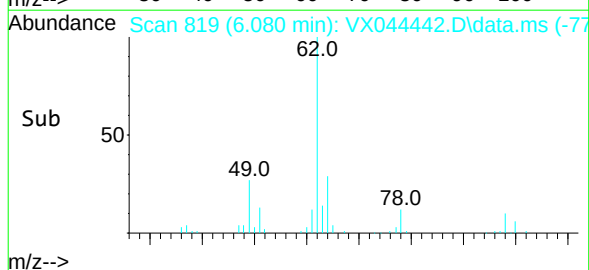
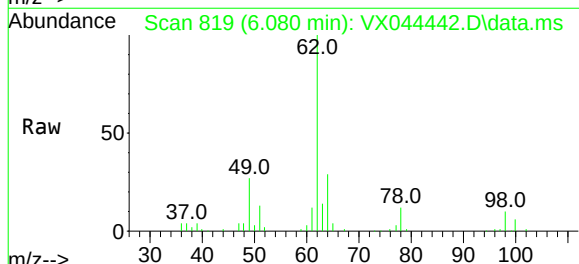
Acq: 20 Dec 2024 11:16

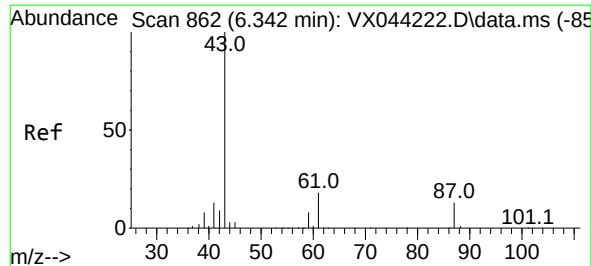
Tgt Ion: 62 Resp: 51173

Ion Ratio Lower Upper

62 100

98 8.9 0.0 15.8





#43

Isopropyl Acetate

Concen: 19.190 ug/l

RT: 6.336 min Scan# 861

Delta R.T. -0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

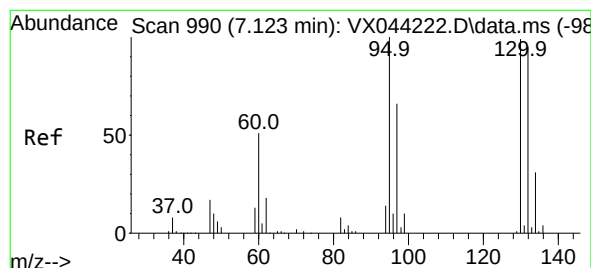
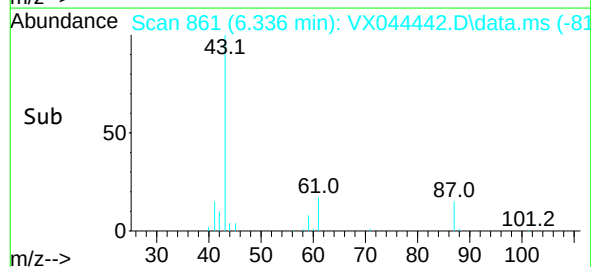
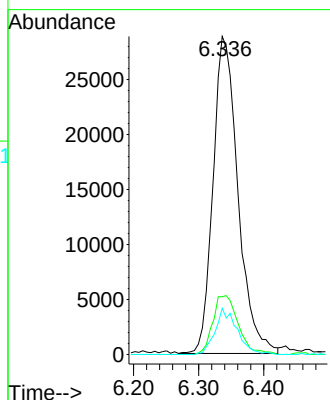
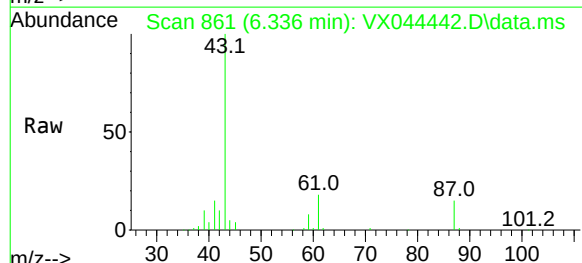
ClientSampleId :

VX1220WBSD01

Tgt Ion:	43	Resp:	76752
Ion	Ratio	Lower	Upper
43	100		
61	19.0	14.2	21.2
87	12.9	10.2	15.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#44

Trichloroethene

Concen: 20.344 ug/l

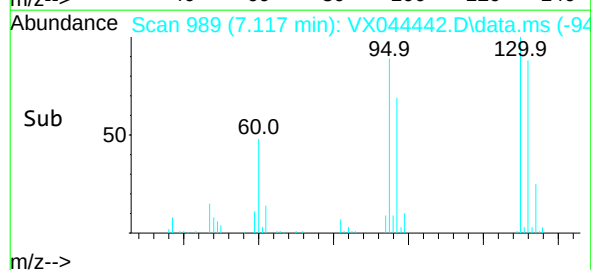
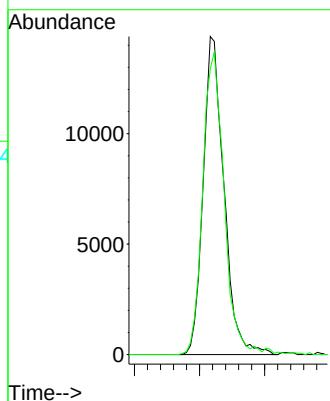
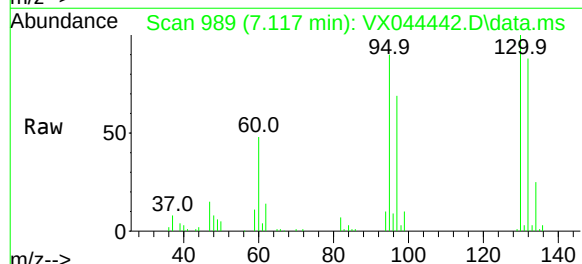
RT: 7.117 min Scan# 989

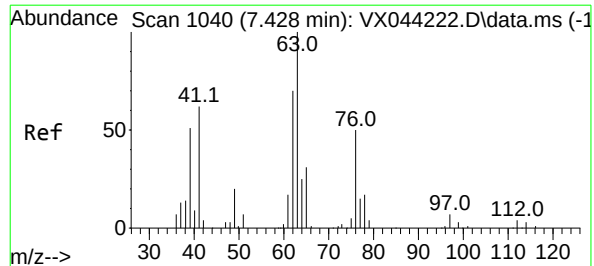
Delta R.T. -0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Tgt Ion:	130	Resp:	31887
Ion	Ratio	Lower	Upper
130	100		
95	89.8	0.0	201.4





#45

1,2-Dichloropropane

Concen: 20.292 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion: 63 Resp: 32584

Ion Ratio Lower Upper

63 100

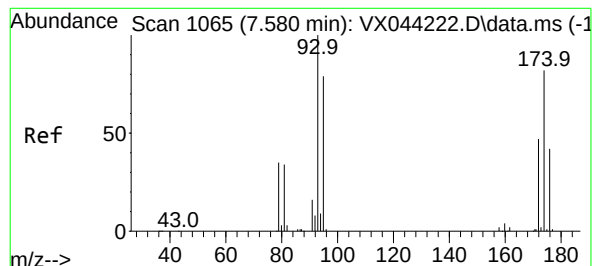
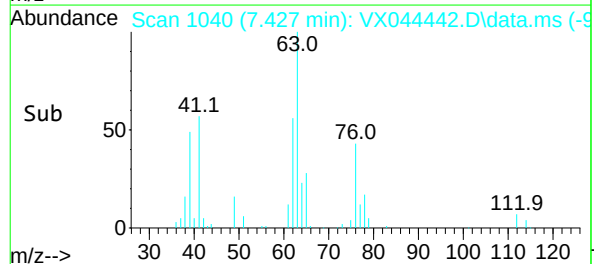
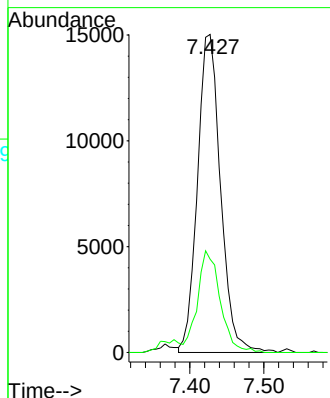
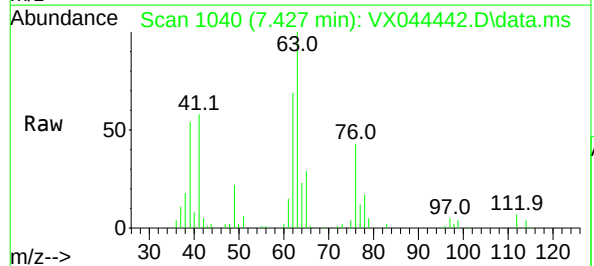
65 29.3 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#46

Dibromomethane

Concen: 20.773 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. -0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

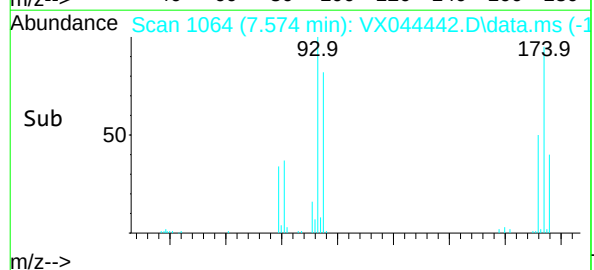
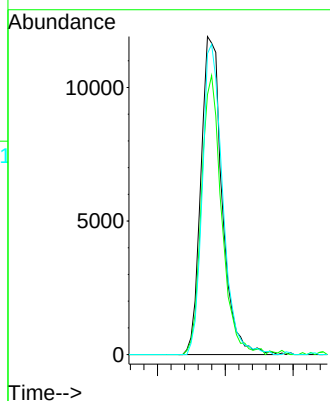
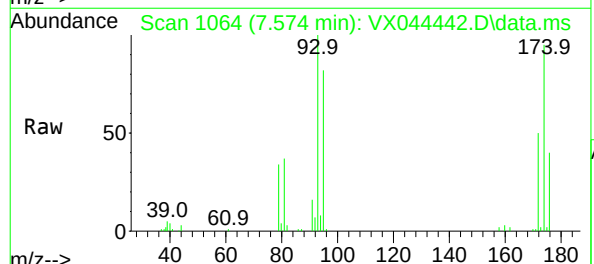
Tgt Ion: 93 Resp: 25878

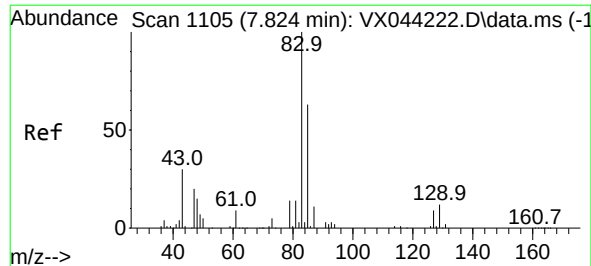
Ion Ratio Lower Upper

93 100

95 83.6 65.4 98.2

174 93.6 67.9 101.9





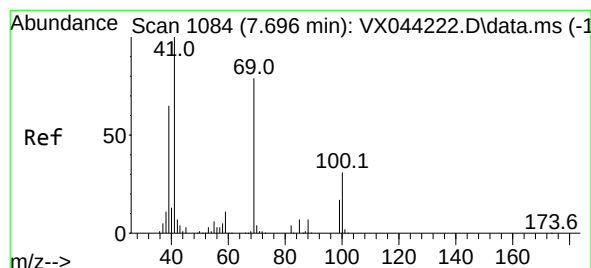
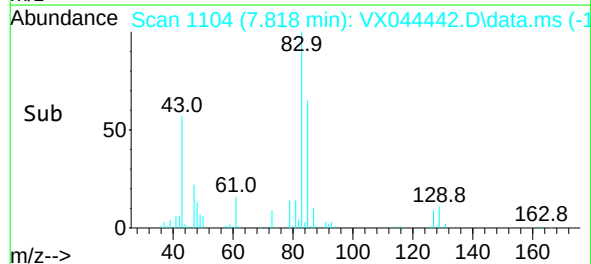
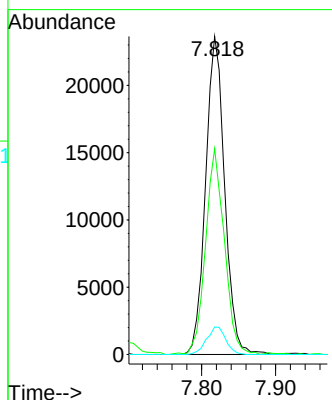
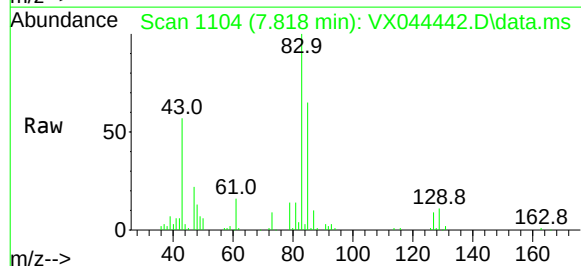
#47
Bromodichloromethane
Concen: 19.655 ug/l
RT: 7.818 min Scan# 1105
Delta R.T. -0.006 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

Tgt Ion: 83 Resp: 42288
Ion Ratio Lower Upper
83 100
85 64.4 50.6 75.8
127 8.7 7.3 10.9

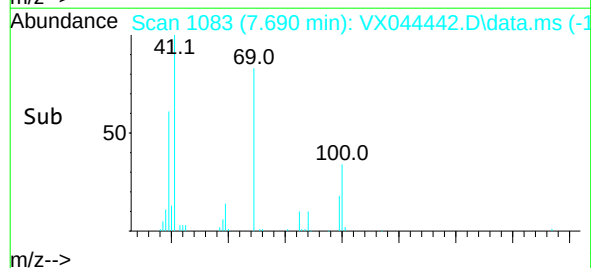
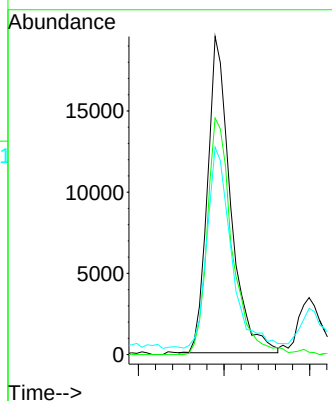
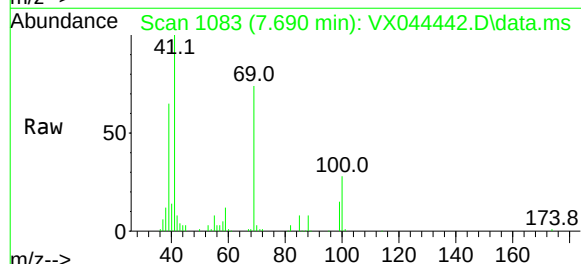
Manual Integrations
APPROVED

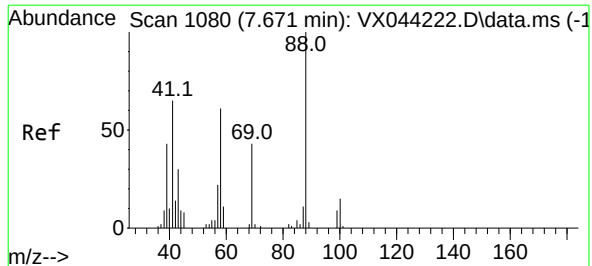
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#48
Methyl methacrylate
Concen: 18.781 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 41 Resp: 36464
Ion Ratio Lower Upper
41 100
69 80.9 62.4 93.6
39 67.4 53.3 79.9





#49

1,4-Dioxane

Concen: 295.032 ug/l

RT: 7.665 min Scan# 1080

Delta R.T. -0.006 min

Lab File: VX044442.D

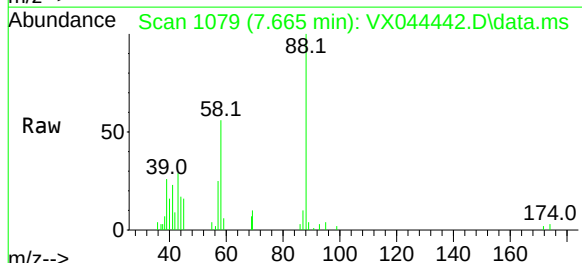
Acq: 20 Dec 2024 11:16

Instrument :

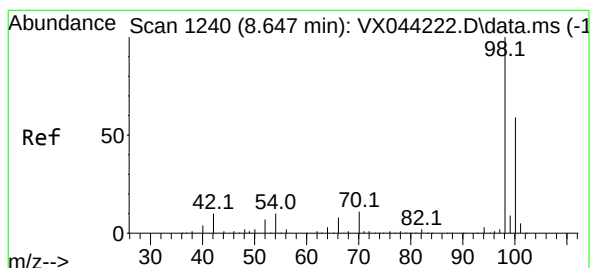
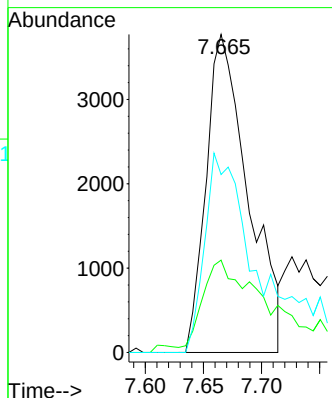
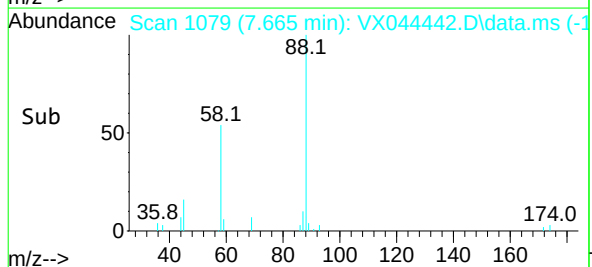
MSVOA_X

ClientSampleId :

VX1220WBSD01



Tgt Ion	Ratio	Lower	Upper
88	100		
43	39.3	27.1	40.7
58	84.4	41.0	61.4

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

#50

Toluene-d8

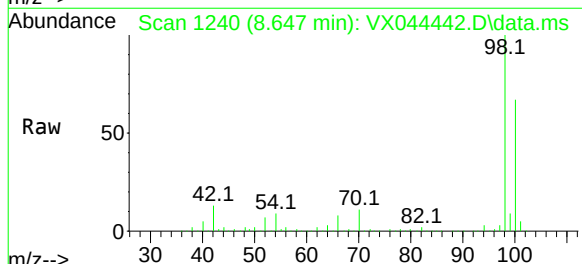
Concen: 49.913 ug/l

RT: 8.647 min Scan# 1240

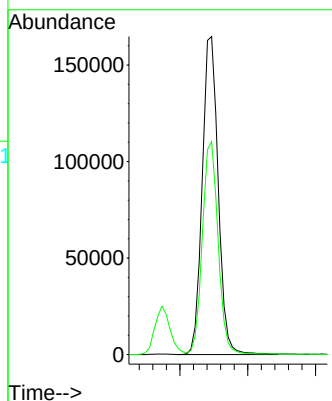
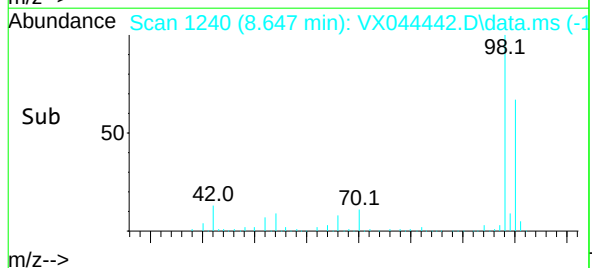
Delta R.T. -0.000 min

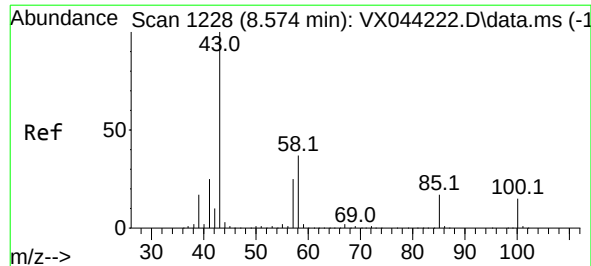
Lab File: VX044442.D

Acq: 20 Dec 2024 11:16



Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.0	51.5	77.3





#51

4-Methyl-2-Pentanone

Concen: 98.990 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. -0.000 min

Lab File: VX044442.D

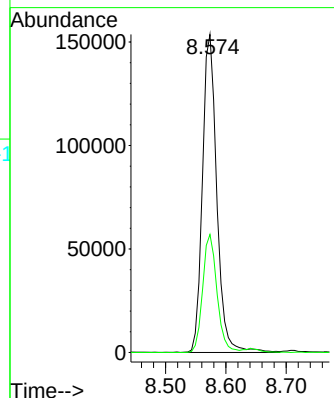
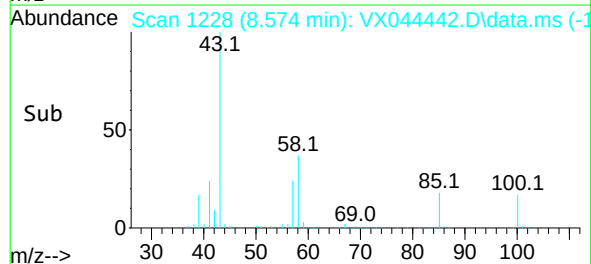
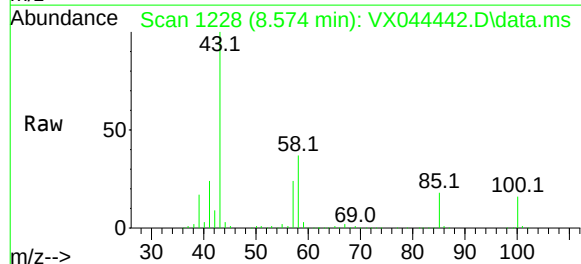
Acq: 20 Dec 2024 11:16

Tgt Ion: 43 Resp: 254576

Ion Ratio Lower Upper

43 100

58 36.9 29.4 44.0



Instrument :

MSVOA_X

ClientSampleId :

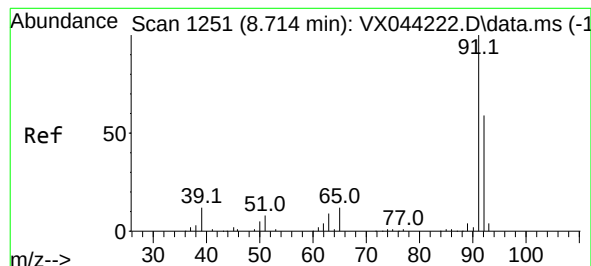
VX1220WBSD01

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#52

Toluene

Concen: 19.908 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. -0.000 min

Lab File: VX044442.D

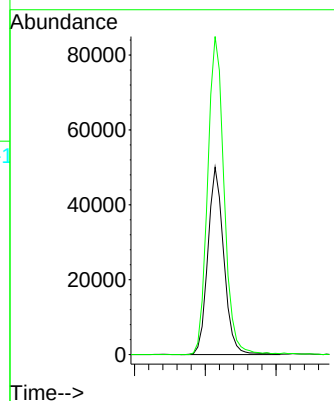
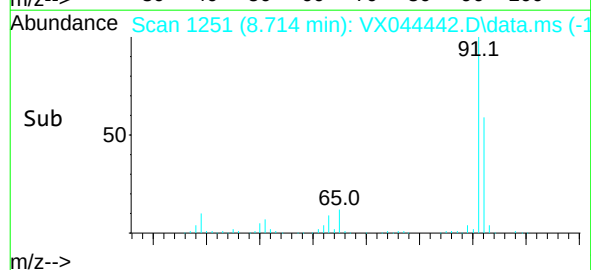
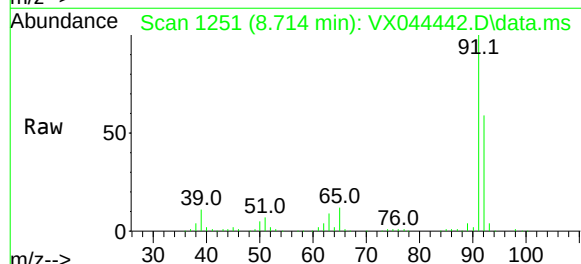
Acq: 20 Dec 2024 11:16

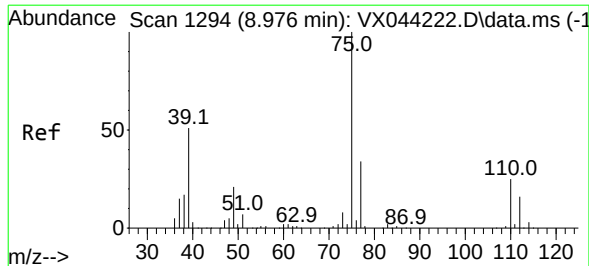
Tgt Ion: 92 Resp: 78578

Ion Ratio Lower Upper

92 100

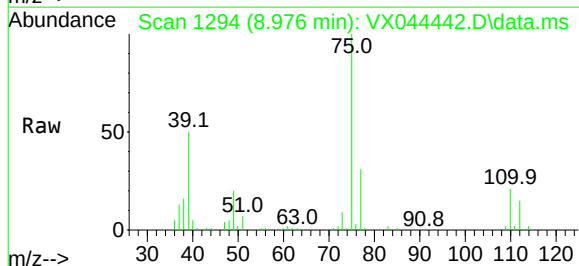
91 174.7 137.0 205.6





#53
t-1,3-Dichloropropene
Concen: 19.092 ug/l
RT: 8.976 min Scan# 1294
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

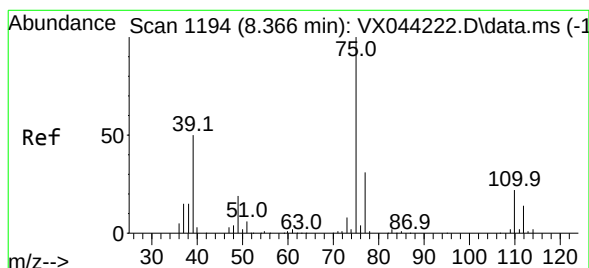
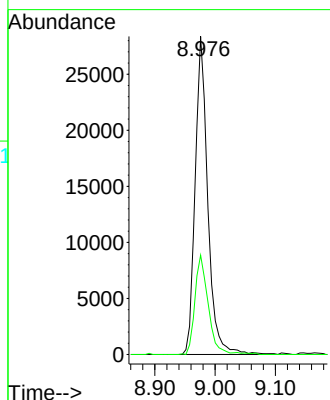
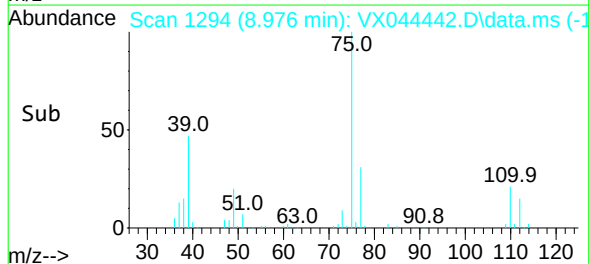
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01



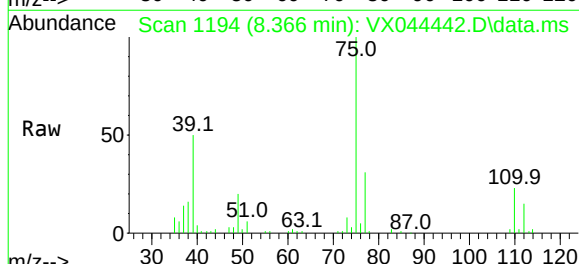
Tgt Ion: 75 Resp: 41297
Ion Ratio Lower Upper
75 100
77 31.2 27.2 40.8

Manual Integrations
APPROVED

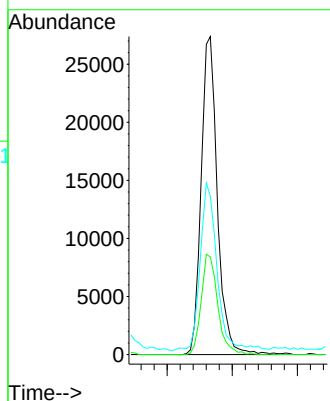
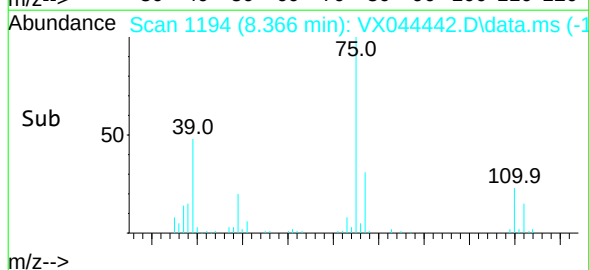
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

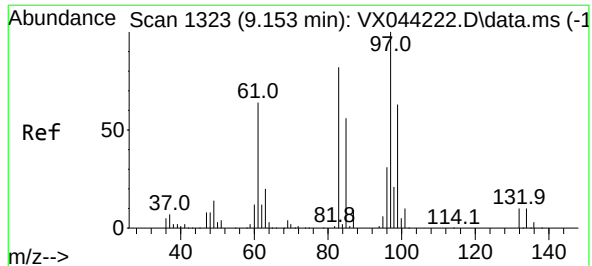


#54
cis-1,3-Dichloropropene
Concen: 20.165 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16



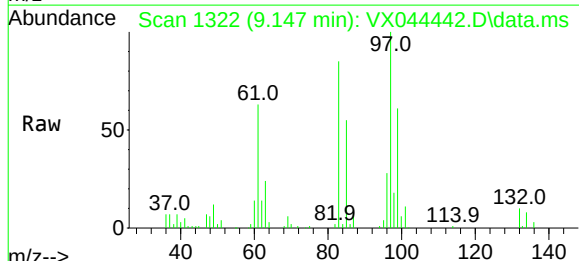
Tgt Ion: 75 Resp: 47240
Ion Ratio Lower Upper
75 100
77 30.7 24.7 37.1
39 47.8 40.3 60.5





#55
1,1,2-Trichloroethane
Concen: 21.606 ug/l
RT: 9.147 min Scan# 1323
Delta R.T. -0.006 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

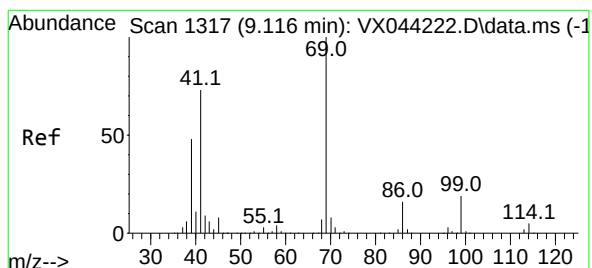
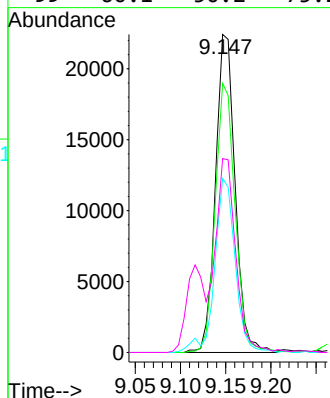
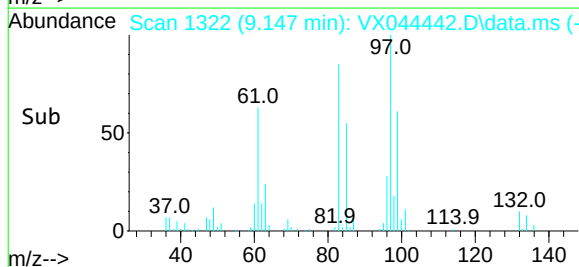
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01



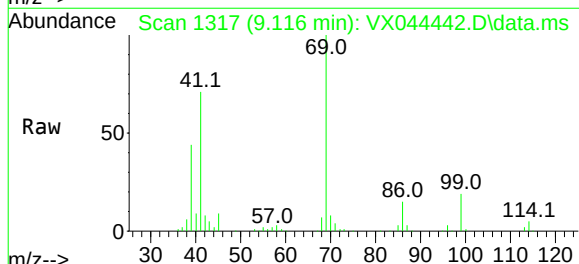
Tgt Ion	Ratio	Lower	Upper
97	100		
83	84.6	65.3	97.9
85	54.7	44.6	67.0
99	60.1	50.2	75.2

Manual Integrations
APPROVED

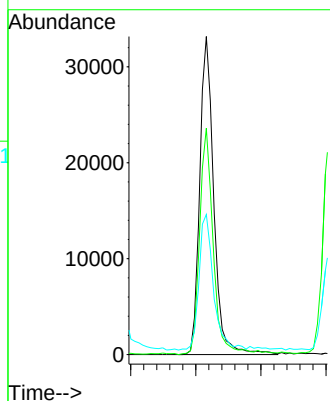
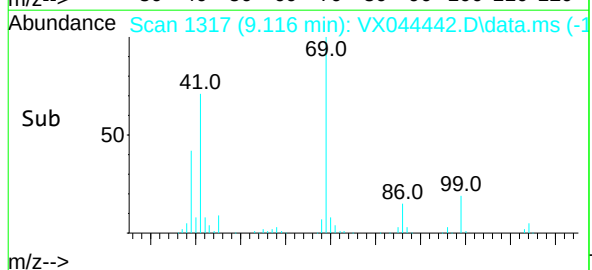
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

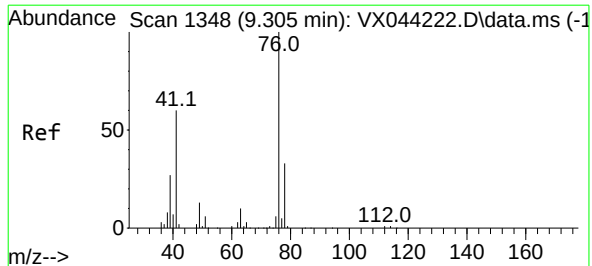


#56
Ethyl methacrylate
Concen: 20.100 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16



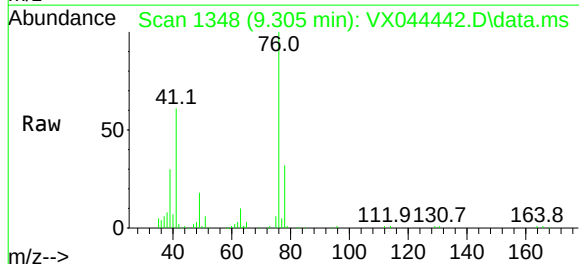
Tgt Ion	Ratio	Lower	Upper
69	100		
41	68.3	56.6	85.0
39	43.9	37.4	56.0





#57
1,3-Dichloropropane
Concen: 21.239 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

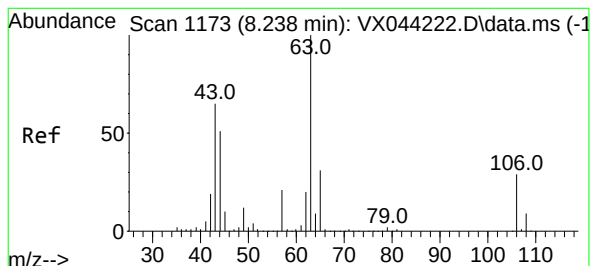
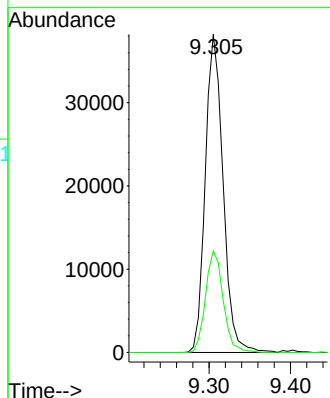
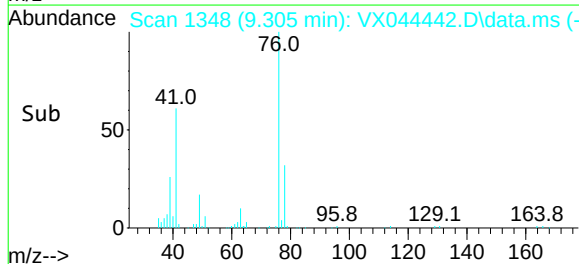
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01



Tgt Ion: 76 Resp: 57969
Ion Ratio Lower Upper
76 100
78 31.7 26.5 39.7

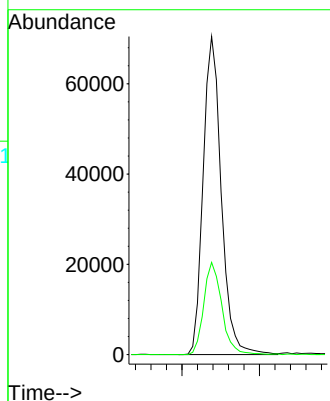
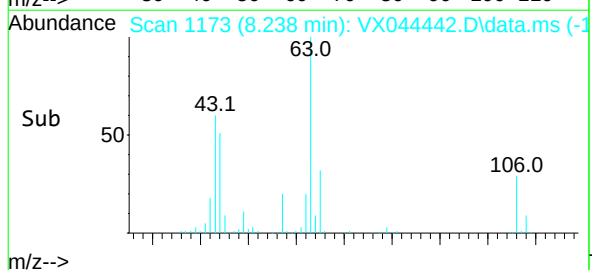
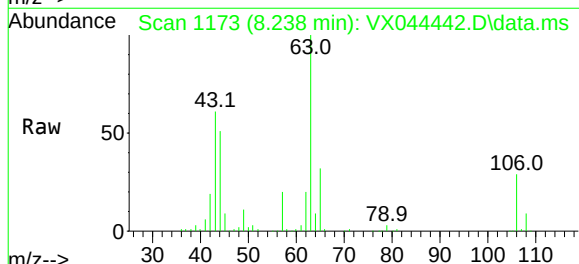
Manual Integrations
APPROVED

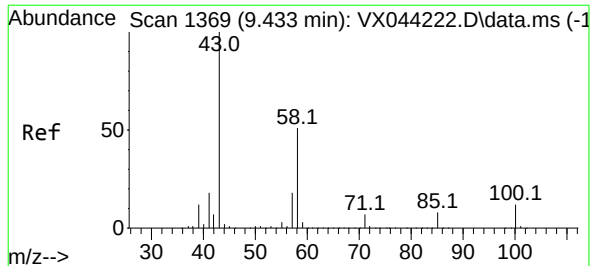
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#58
2-Chloroethyl Vinyl ether
Concen: 91.883 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 63 Resp: 114719
Ion Ratio Lower Upper
63 100
106 28.9 22.8 34.2





#59

2-Hexanone

Concen: 97.164 ug/l

RT: 9.427 min Scan# 1369

Delta R.T. -0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Tgt Ion: 43 Resp: 180865

Ion Ratio Lower Upper

43 100

58 52.4 25.7 77.0

Instrument :

MSVOA_X

ClientSampleId :

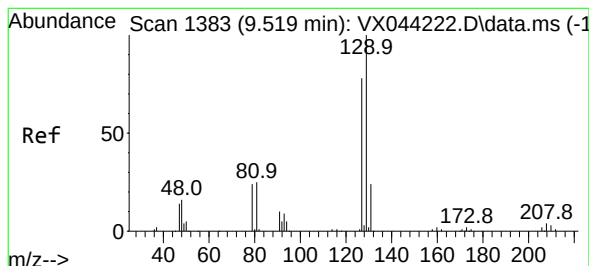
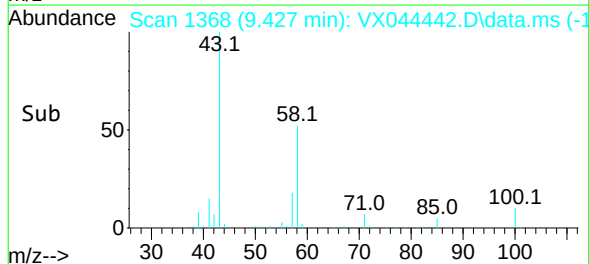
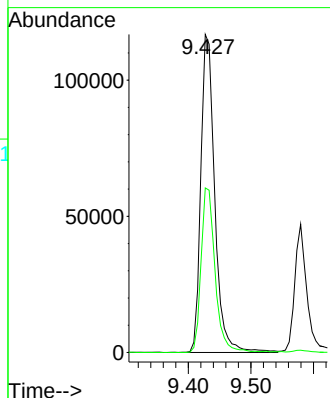
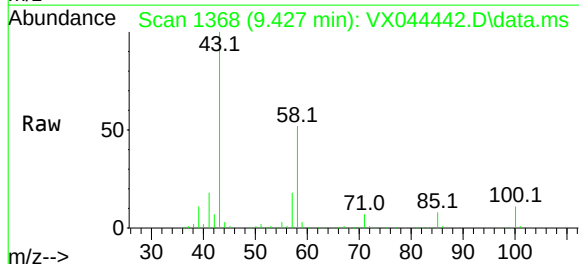
VX1220WBSD01

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#60

Dibromochloromethane

Concen: 19.339 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX044442.D

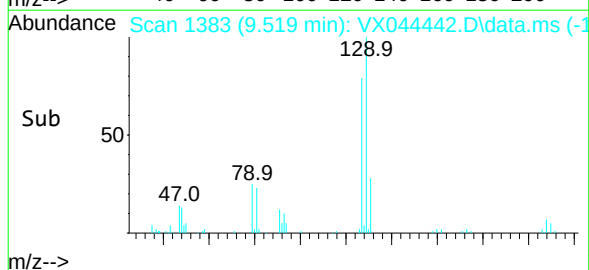
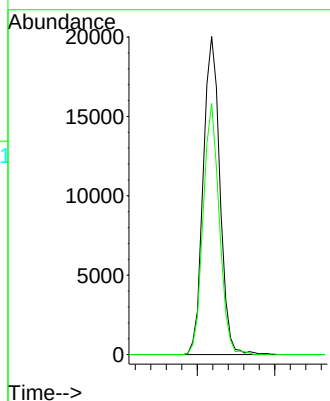
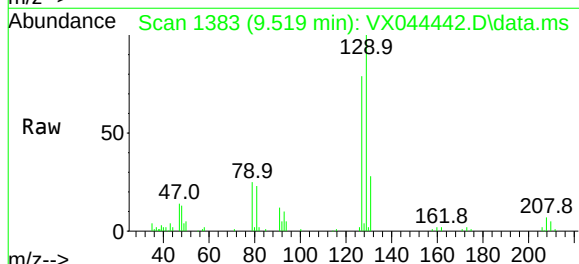
Acq: 20 Dec 2024 11:16

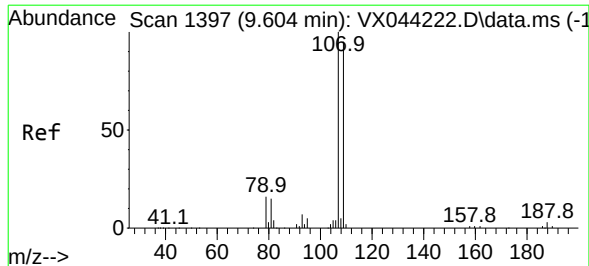
Tgt Ion:129 Resp: 29976

Ion Ratio Lower Upper

129 100

127 76.4 38.5 115.3





#61

1,2-Dibromoethane

Concen: 21.325 ug/l

RT: 9.604 min Scan# 1397

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion: 107 Resp: 34036

Ion Ratio Lower Upper

107 100

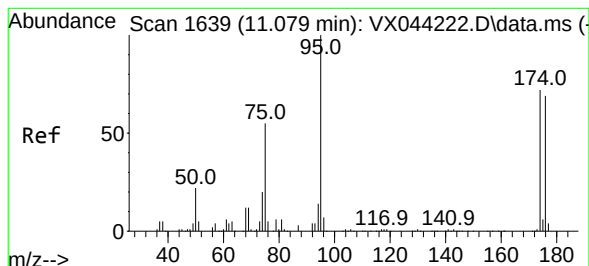
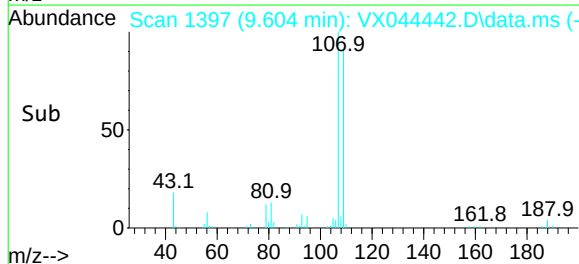
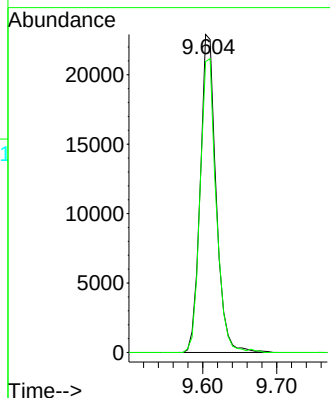
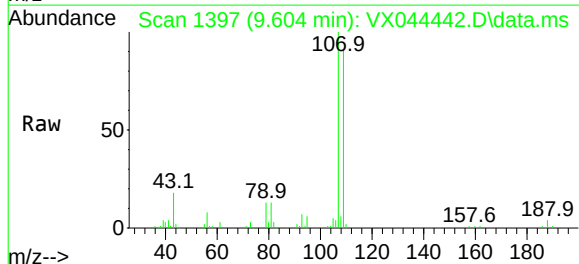
109 94.1 77.0 115.4

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 12/23/2024

Supervised By : Mahesh Dadoda 12/24/2024



#62

4-Bromofluorobenzene

Concen: 48.620 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

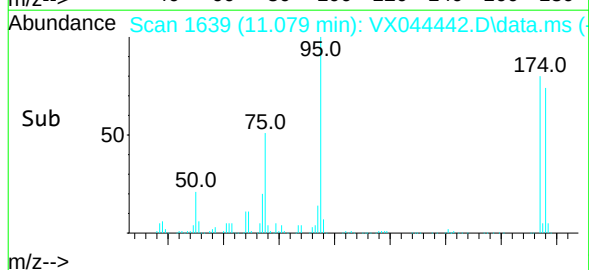
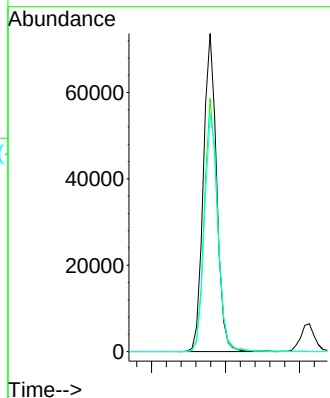
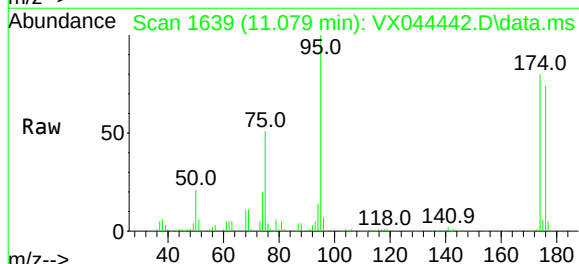
Tgt Ion: 95 Resp: 91791

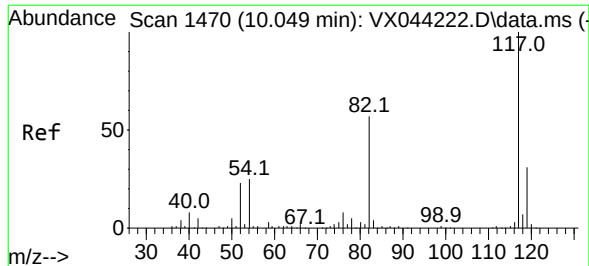
Ion Ratio Lower Upper

95 100

174 78.8 0.0 145.8

176 76.3 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion:117 Resp: 202087

Ion Ratio Lower Upper

117 100

82 57.5 45.8 68.8

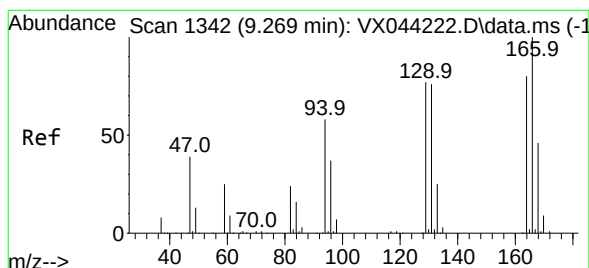
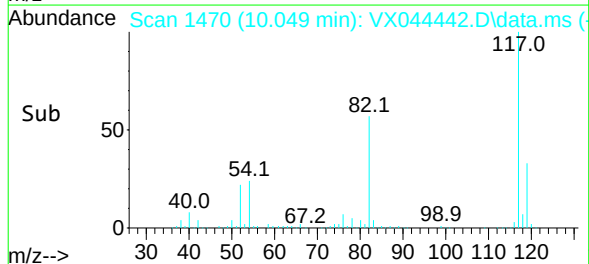
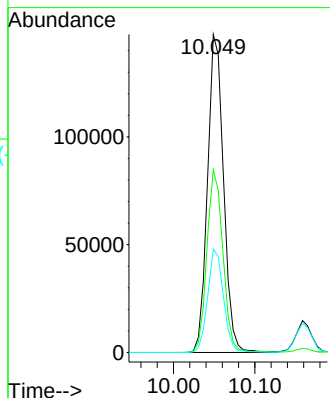
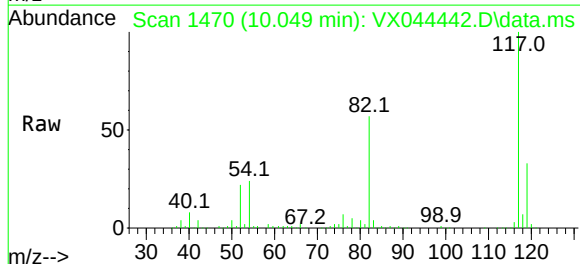
119 32.5 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#64

Tetrachloroethene

Concen: 20.468 ug/l

RT: 9.269 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Tgt Ion:164 Resp: 27454

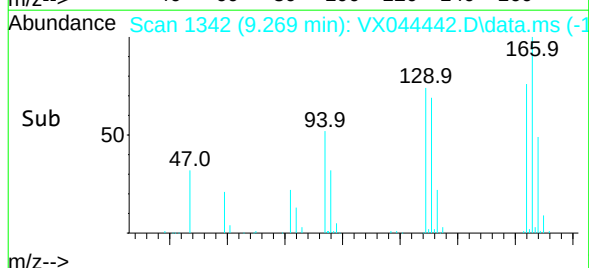
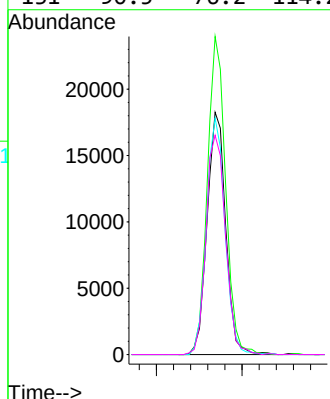
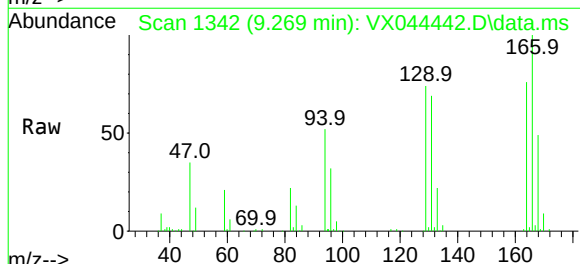
Ion Ratio Lower Upper

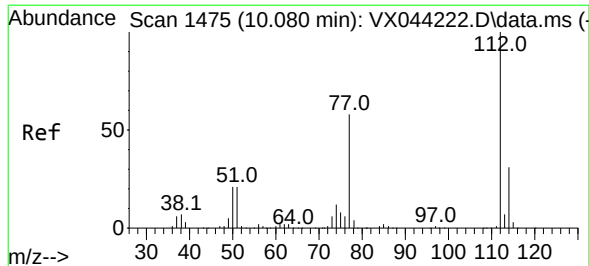
164 100

166 131.3 100.4 150.6

129 97.6 77.2 115.8

131 90.5 76.2 114.2





#65

Chlorobenzene

Concen: 20.171 ug/l

RT: 10.073 min Scan# 1475

Delta R.T. -0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion:112 Resp: 87347

Ion Ratio Lower Upper

112 100

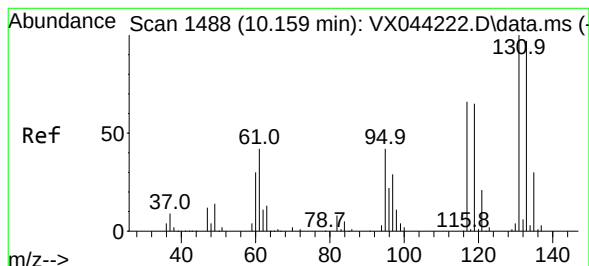
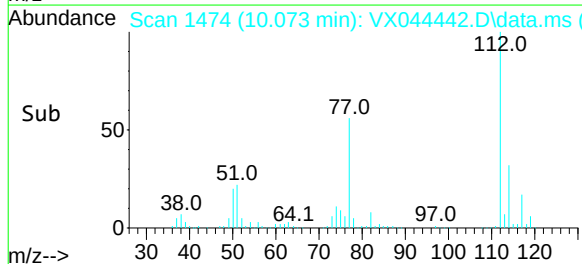
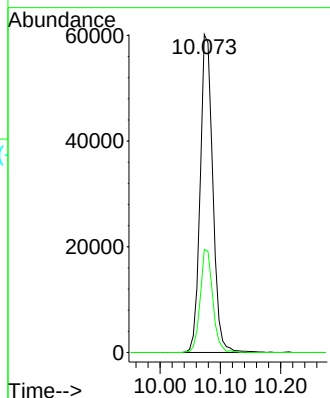
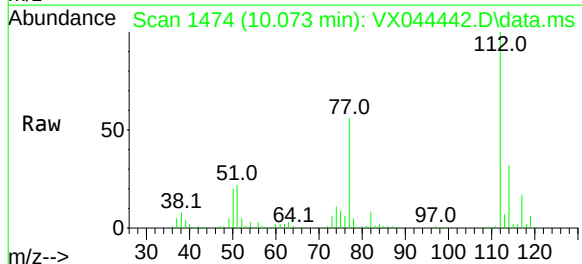
114 32.3 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 21.337 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

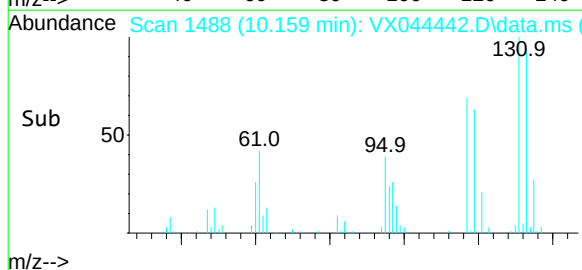
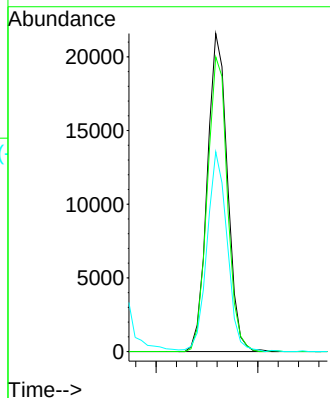
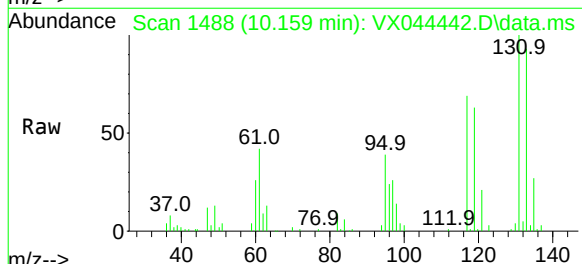
Tgt Ion:131 Resp: 29694

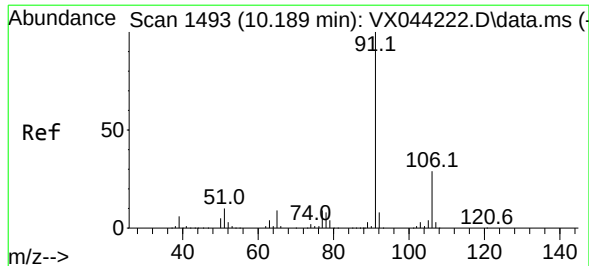
Ion Ratio Lower Upper

131 100

133 92.2 47.3 141.8

119 62.6 31.6 95.0





#67

Ethyl Benzene

Concen: 19.520 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion: 91 Resp: 146051

Ion Ratio Lower Upper

91 100

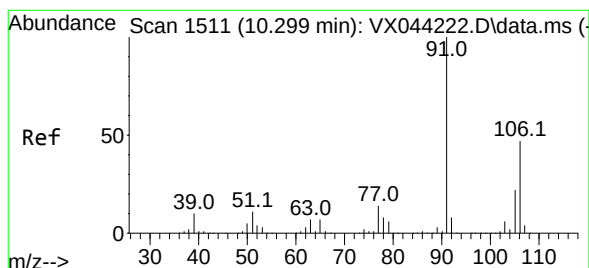
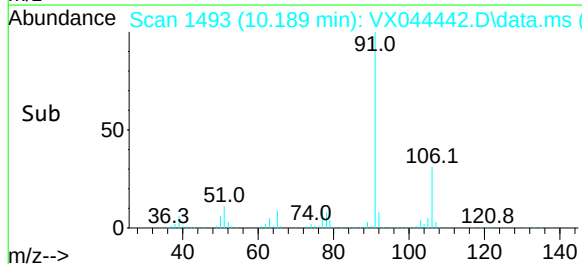
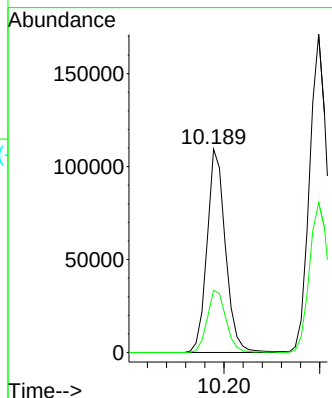
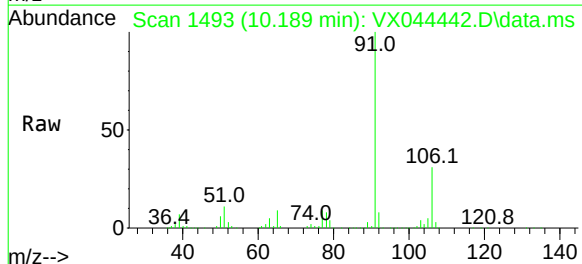
106 30.6 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#68

m/p-Xylenes

Concen: 41.220 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX044442.D

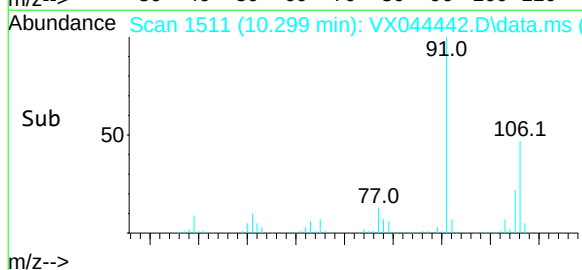
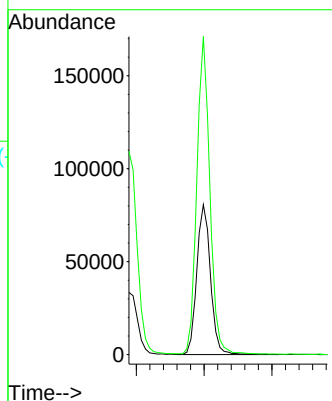
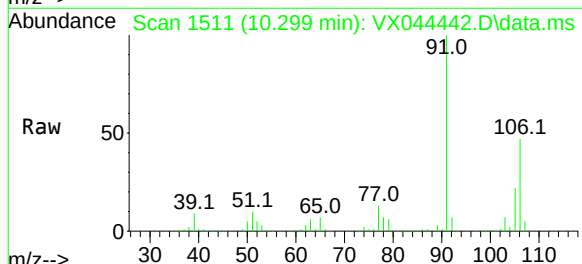
Acq: 20 Dec 2024 11:16

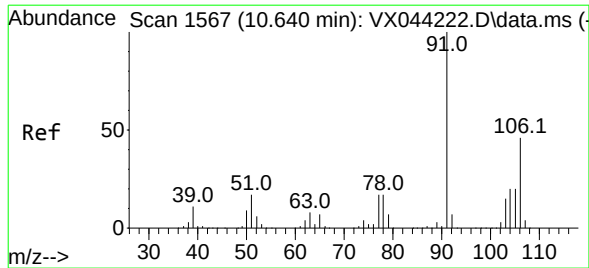
Tgt Ion:106 Resp: 113167

Ion Ratio Lower Upper

106 100

91 202.0 170.2 255.2





#69

o-Xylene

Concen: 20.223 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Tgt Ion:106 Resp: 56176

Ion Ratio Lower Upper

106 100

91 214.3 112.3 337.0

Instrument :

MSVOA_X

ClientSampleId :

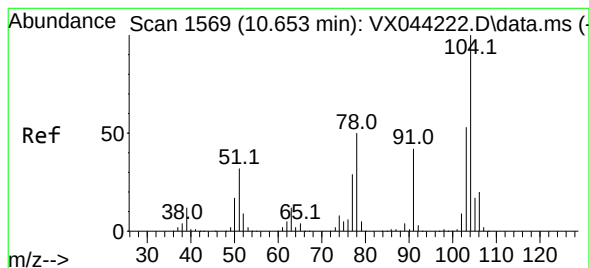
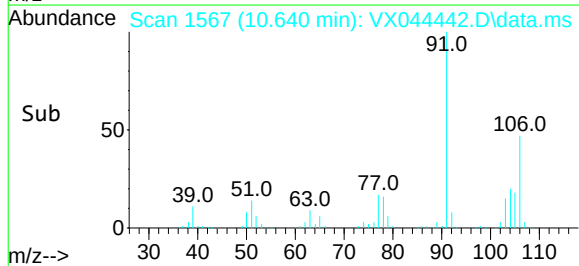
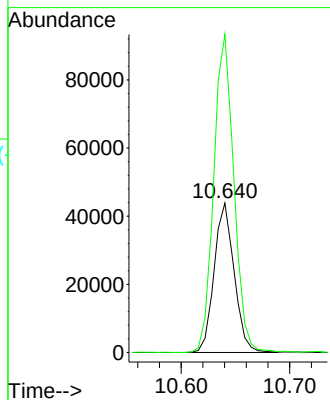
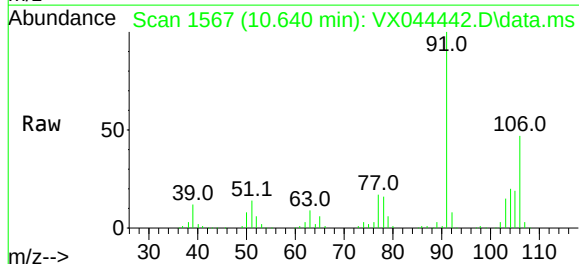
VX1220WBSD01

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#70

Styrene

Concen: 20.436 ug/l

RT: 10.652 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

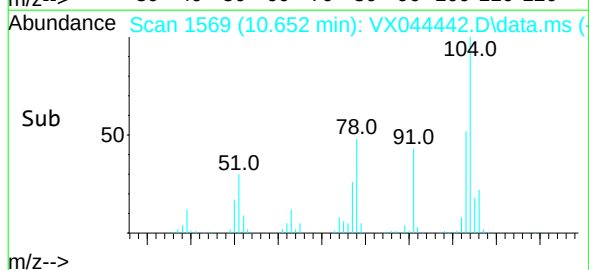
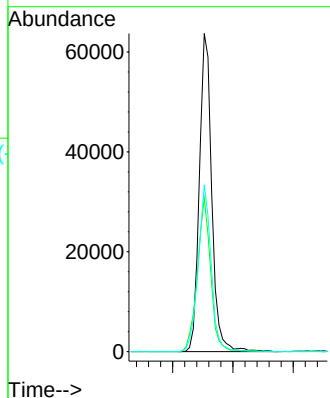
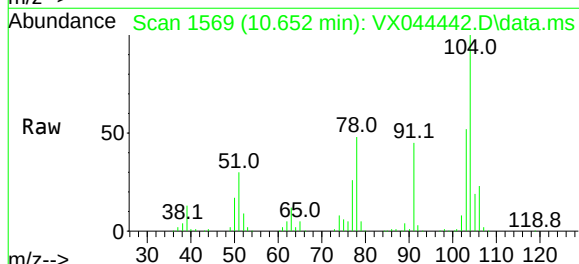
Tgt Ion:104 Resp: 91004

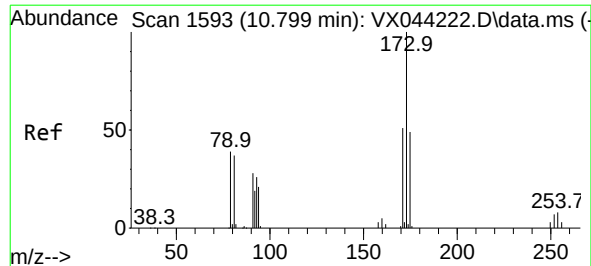
Ion Ratio Lower Upper

104 100

78 51.9 44.6 67.0

103 55.0 45.4 68.0





#71

Bromoform

Concen: 20.140 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

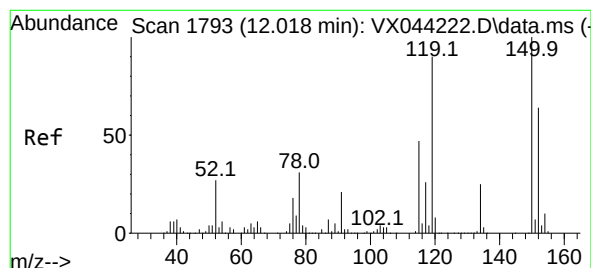
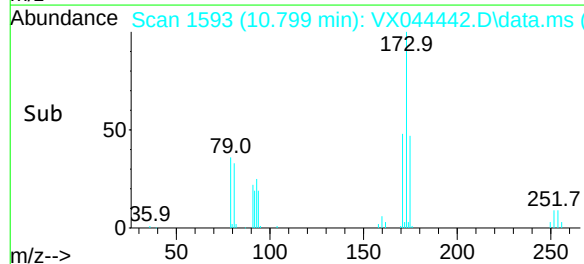
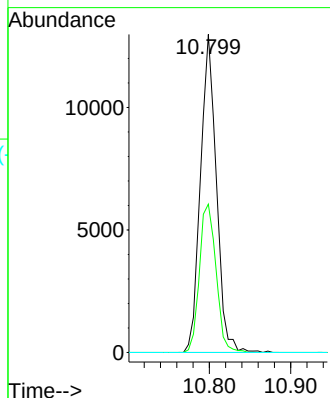
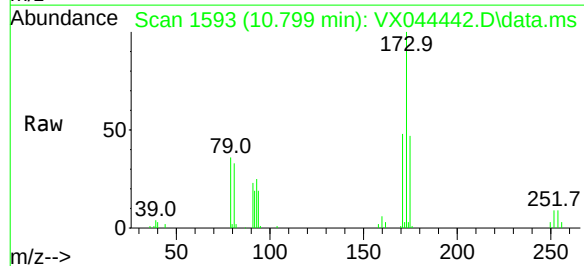
ClientSampleId :

VX1220WBSD01

Tgt	Ion:173	Resp:	17644
Ion	Ratio	Lower	Upper
173	100		
175	48.7	23.8	71.4
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

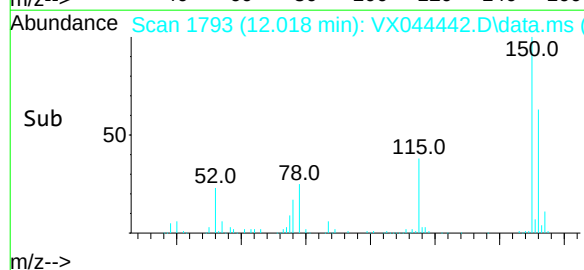
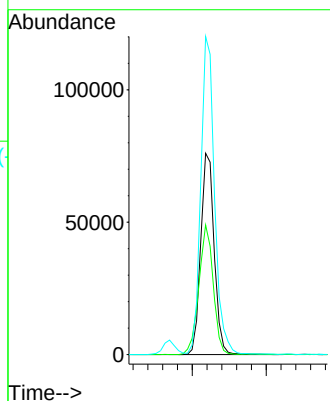
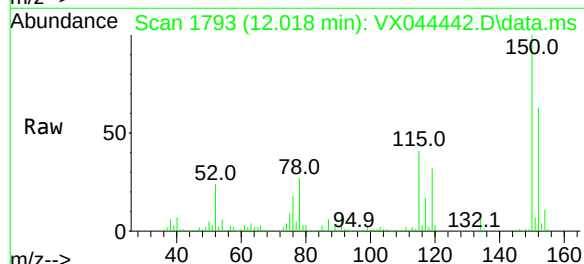
RT: 12.018 min Scan# 1793

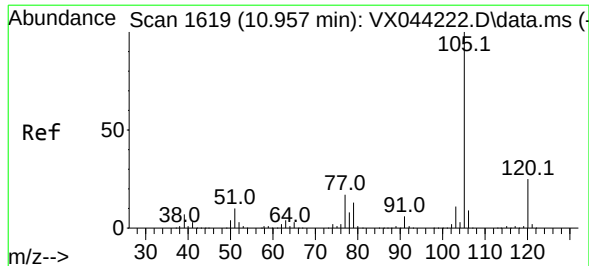
Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Tgt	Ion:152	Resp:	96082
Ion	Ratio	Lower	Upper
152	100		
115	68.4	44.5	133.3
150	161.5	0.0	353.8





#73

Isopropylbenzene

Concen: 18.767 ug/l

RT: 10.963 min Scan# 1619

Delta R.T. 0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion: 105 Resp: 138041

Ion Ratio Lower Upper

105 100

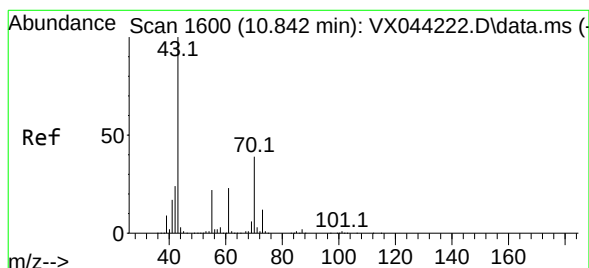
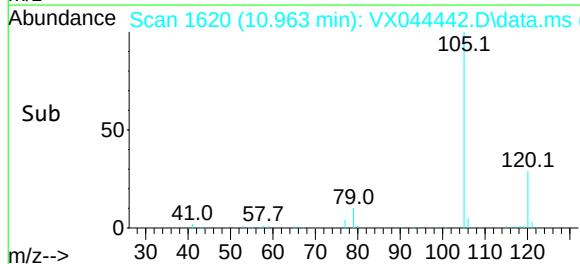
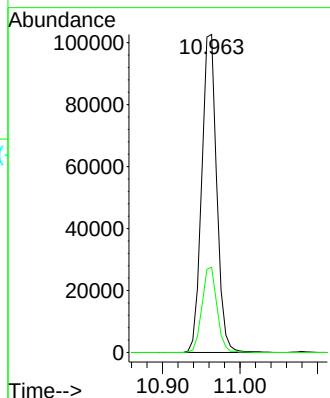
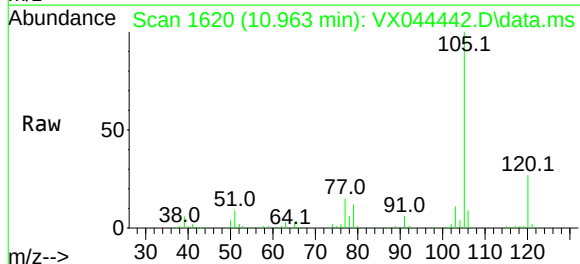
120 26.8 13.1 39.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#74

N-ethyl acetate

Concen: 17.900 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Tgt Ion: 43 Resp: 60849

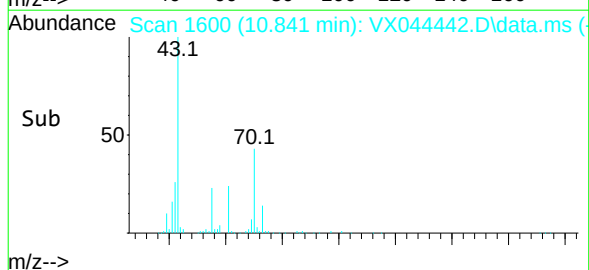
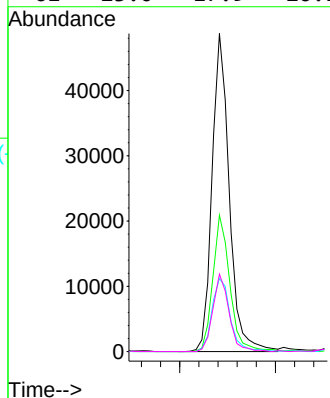
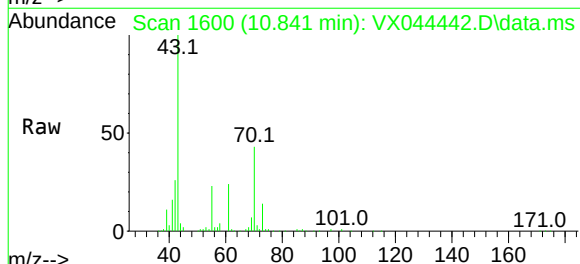
Ion Ratio Lower Upper

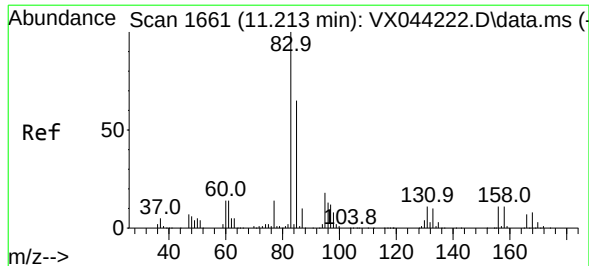
43 100

70 42.6 31.9 47.9

55 24.5 17.9 26.9

61 23.0 17.9 26.9





#75

1,1,2,2-Tetrachloroethane

Concen: 19.717 ug/l

RT: 11.213 min Scan# 1661

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

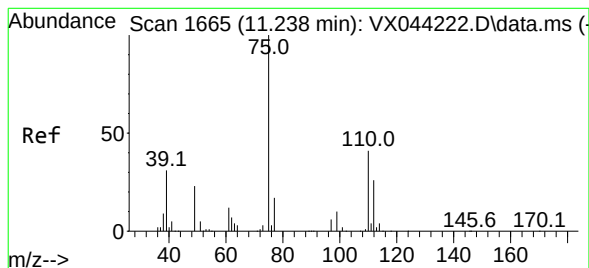
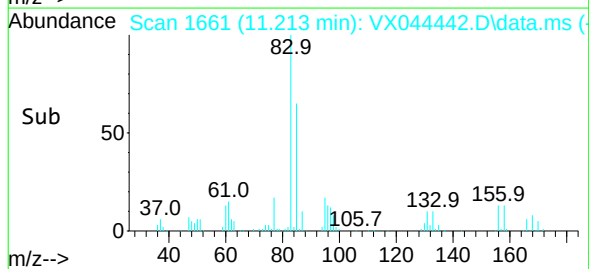
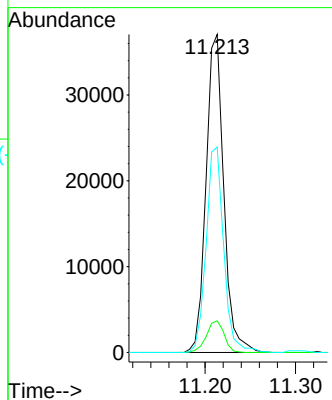
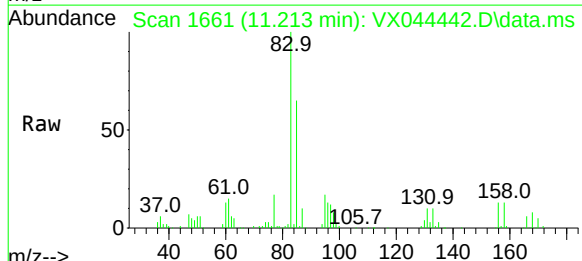
ClientSampleId :

VX1220WBSD01

Tgt Ion:	83	Resp:	50373
Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.1	15.4
85	64.2	32.5	97.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#76

1,2,3-Trichloropropane

Concen: 19.041 ug/l m

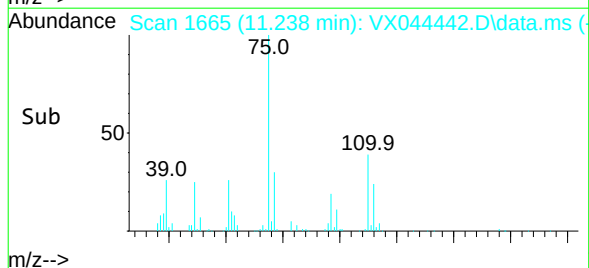
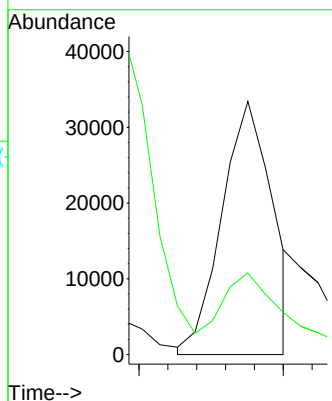
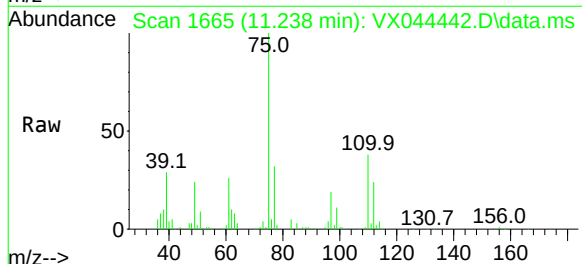
RT: 11.238 min Scan# 1665

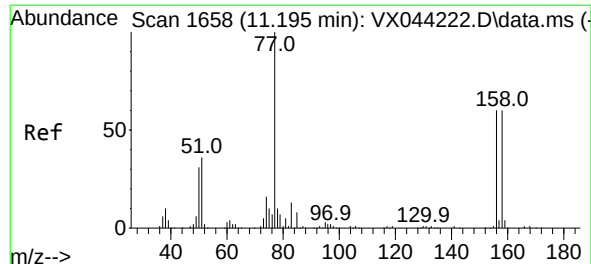
Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Tgt Ion:	75	Resp:	40849
Ion	Ratio	Lower	Upper
75	100		
77	42.2	20.9	62.7





#77

Bromobenzene

Concen: 20.022 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion:156 Resp: 35713

Ion Ratio Lower Upper

156 100

77 157.0 82.6 247.8

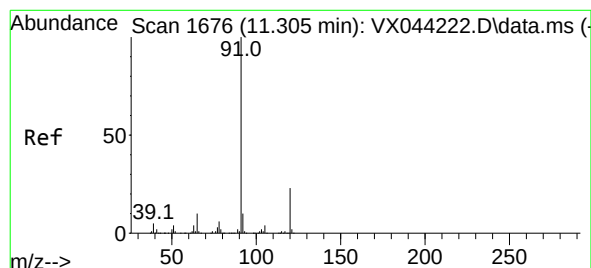
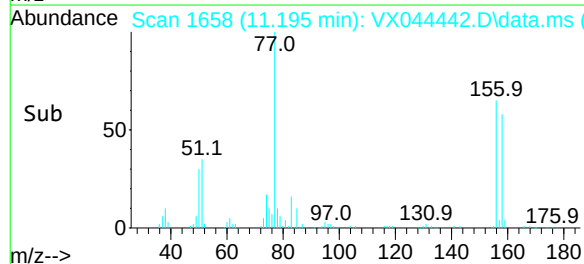
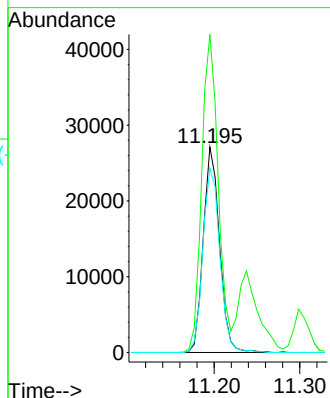
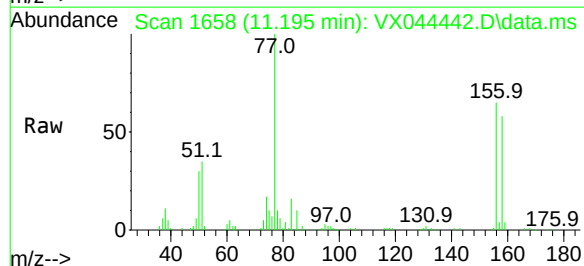
158 94.0 48.8 146.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#78

n-propylbenzene

Concen: 19.128 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. -0.000 min

Lab File: VX044442.D

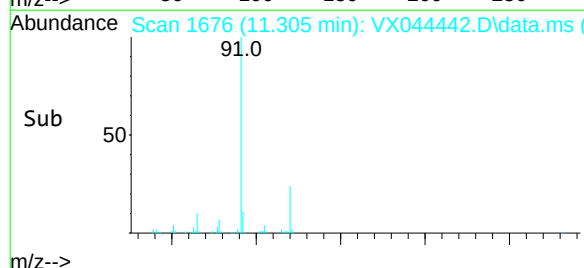
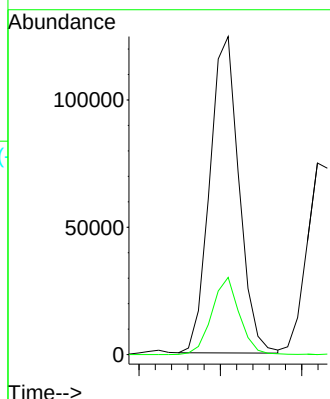
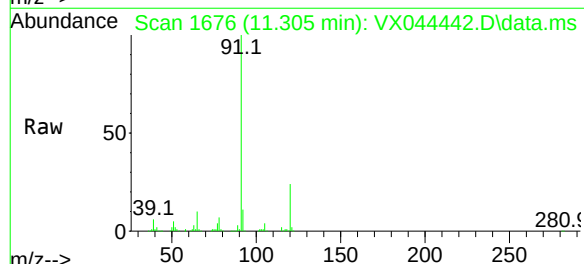
Acq: 20 Dec 2024 11:16

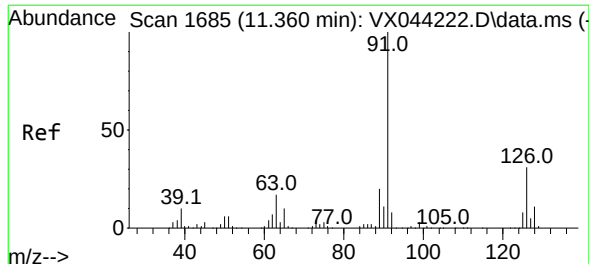
Tgt Ion: 91 Resp: 155505

Ion Ratio Lower Upper

91 100

120 23.0 11.0 33.0





#79

2-Chlorotoluene

Concen: 18.716 ug/l

RT: 11.360 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion: 91 Resp: 98404

Ion Ratio Lower Upper

91 100

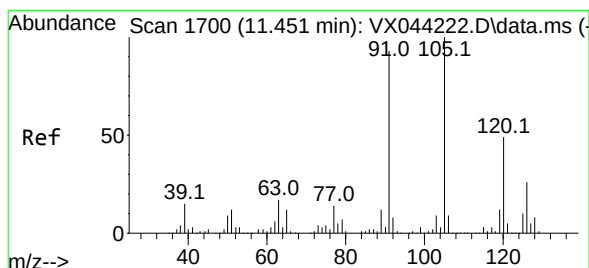
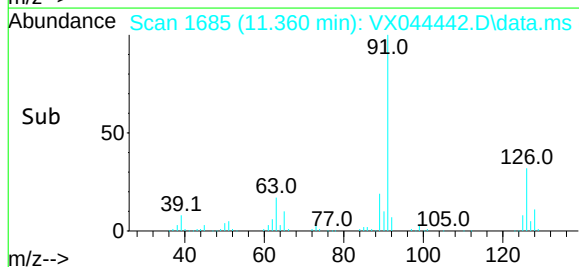
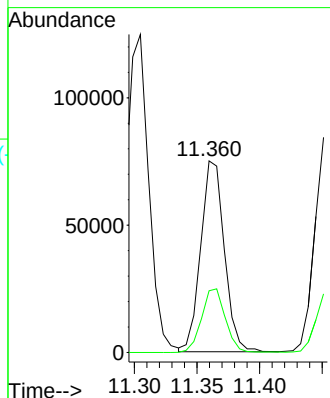
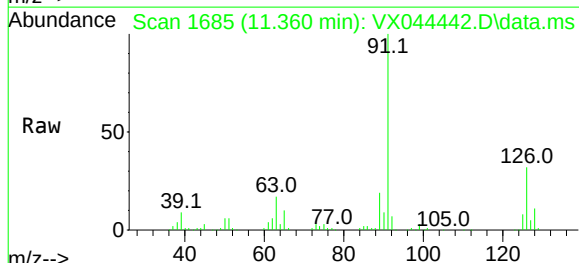
126 33.7 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#80

1,3,5-Trimethylbenzene

Concen: 19.444 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX044442.D

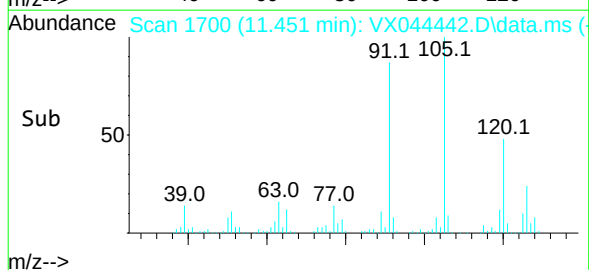
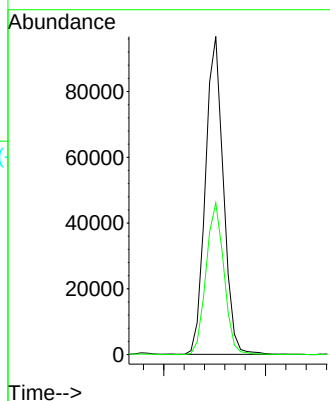
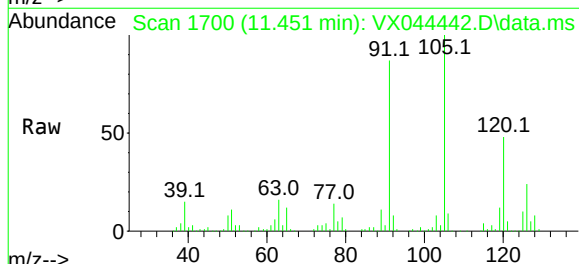
Acq: 20 Dec 2024 11:16

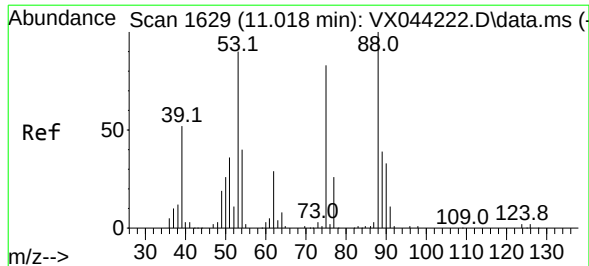
Tgt Ion:105 Resp: 118602

Ion Ratio Lower Upper

105 100

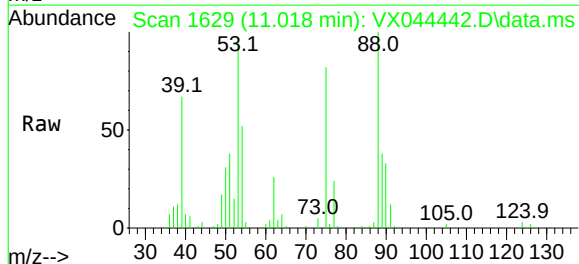
120 47.6 23.8 71.4





#81
trans-1,4-Dichloro-2-butene
Concen: 19.096 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

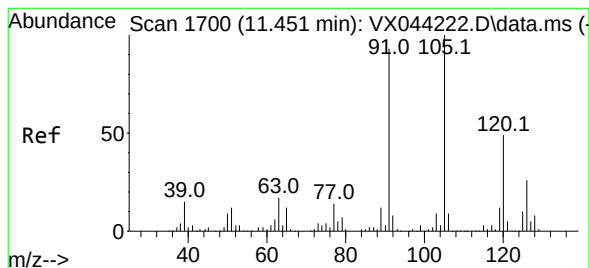
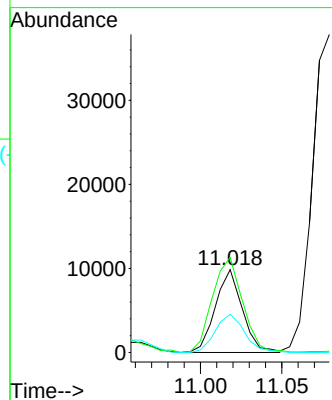
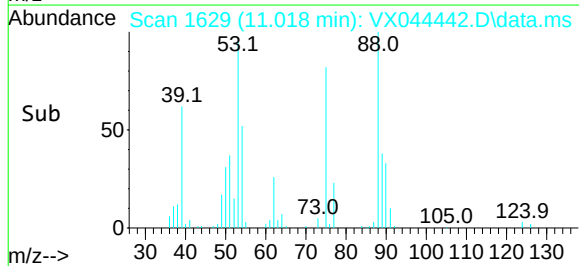
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01



Tgt Ion: 75 Resp: 11391
Ion Ratio Lower Upper
75 100
53 128.2 93.6 140.4
89 49.9 37.3 55.9

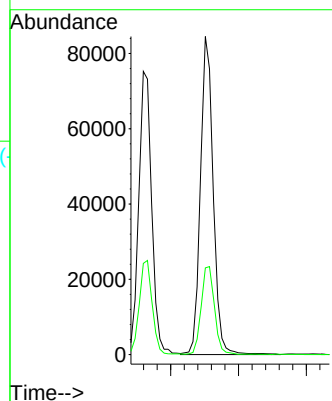
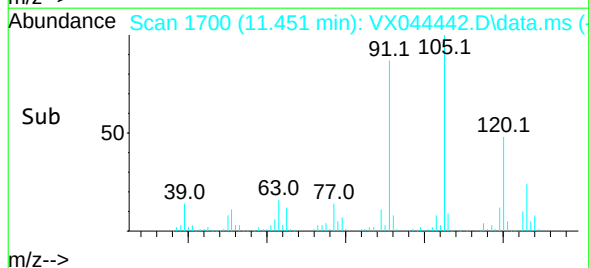
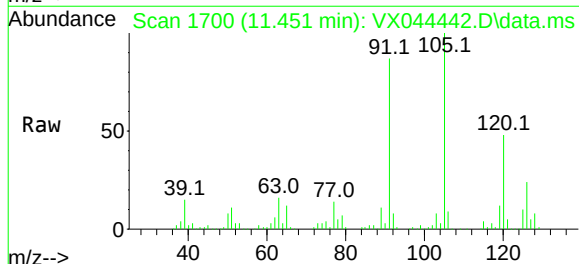
Manual Integrations
APPROVED

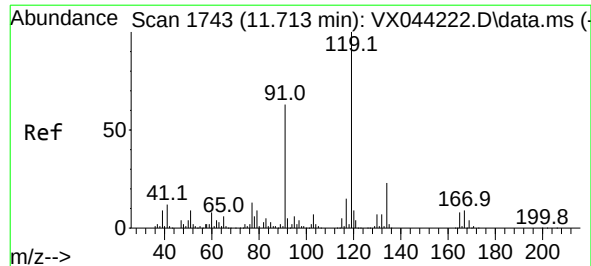
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#82
4-Chlorotoluene
Concen: 19.006 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 91 Resp: 110656
Ion Ratio Lower Upper
91 100
126 28.5 14.5 43.5





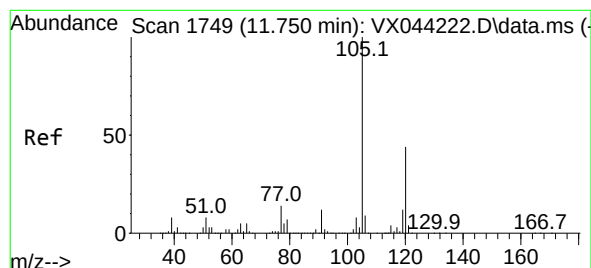
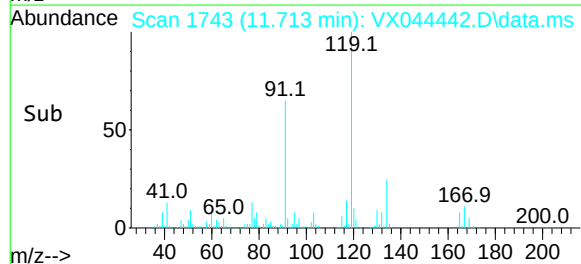
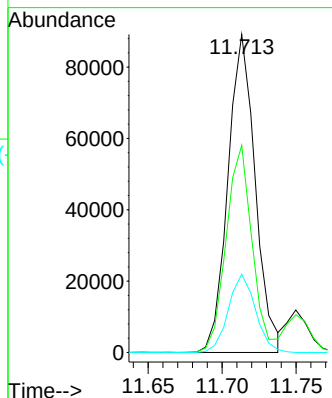
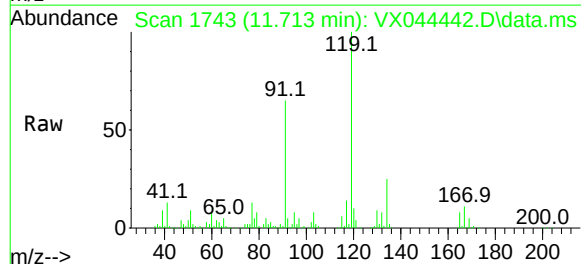
#83
tert-Butylbenzene
Concen: 18.997 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

Tgt Ion	Ratio	Lower	Upper
119	100		
91	62.5	30.9	92.5
134	24.4	11.5	34.4

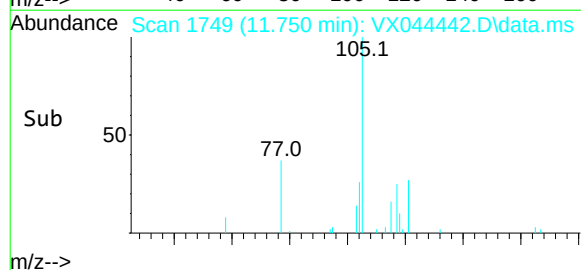
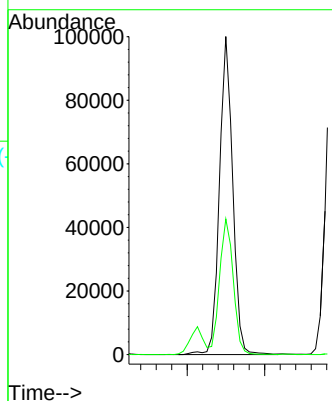
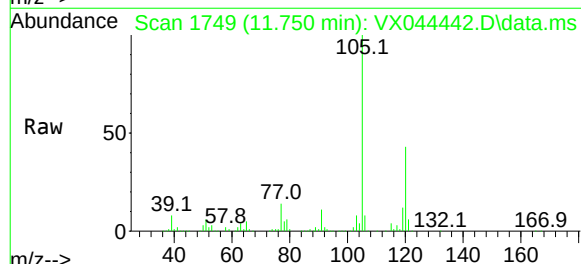
Manual Integrations
APPROVED

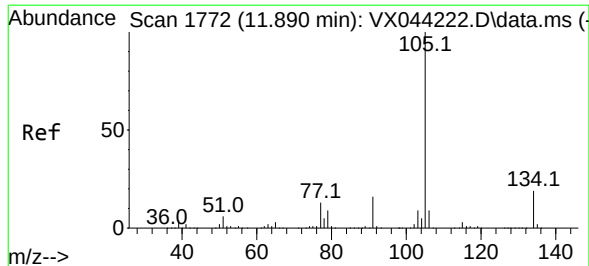
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#84
1,2,4-Trimethylbenzene
Concen: 19.828 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.4	21.7	65.1





#85

sec-Butylbenzene

Concen: 19.072 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion:105 Resp: 139575

Ion Ratio Lower Upper

105 100

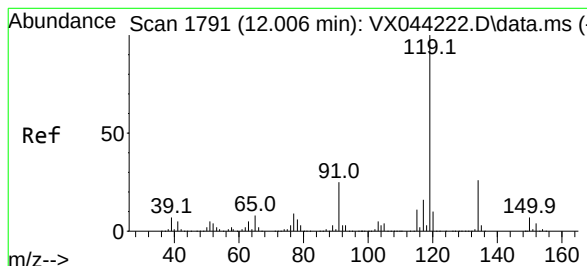
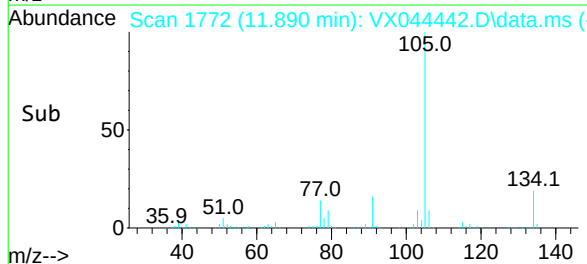
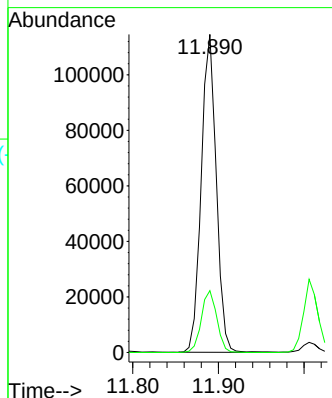
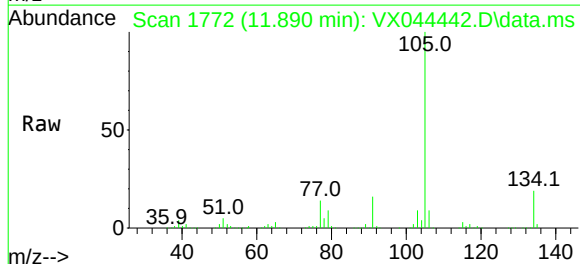
134 20.0 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#86

p-Isopropyltoluene

Concen: 19.427 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

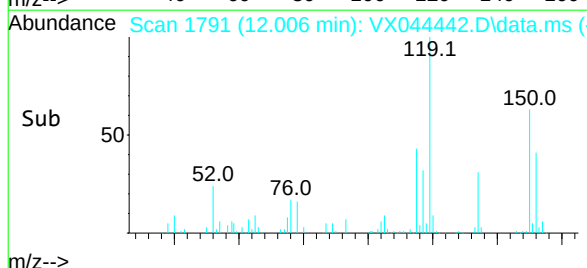
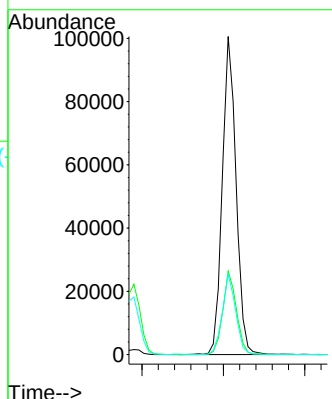
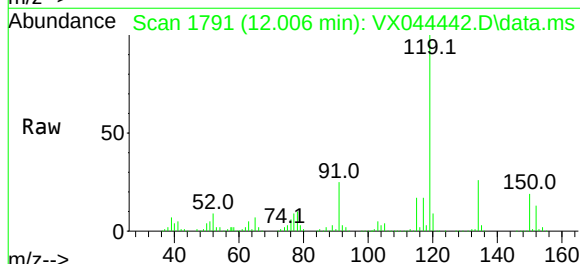
Tgt Ion:119 Resp: 118332

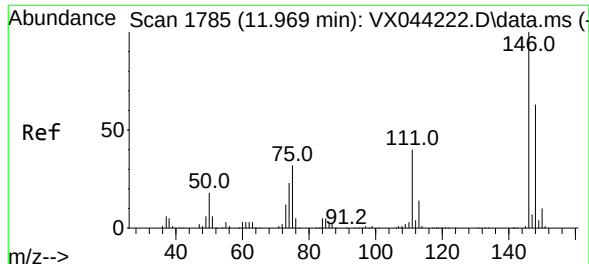
Ion Ratio Lower Upper

119 100

134 26.0 12.8 38.4

91 24.6 13.0 39.0





#87

1,3-Dichlorobenzene

Concen: 20.156 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

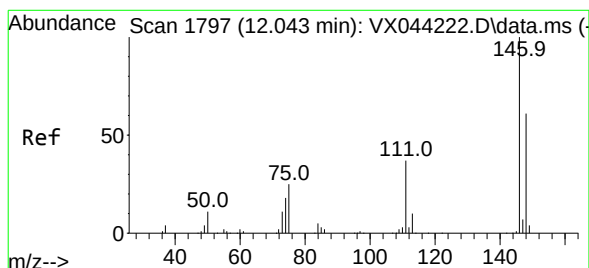
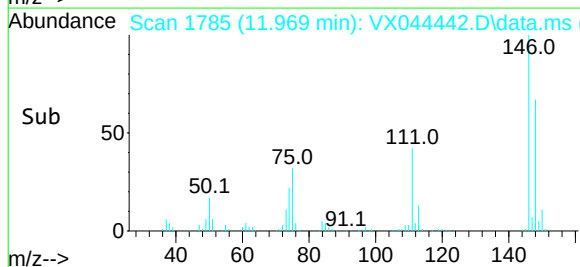
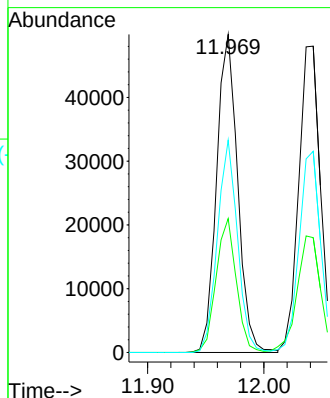
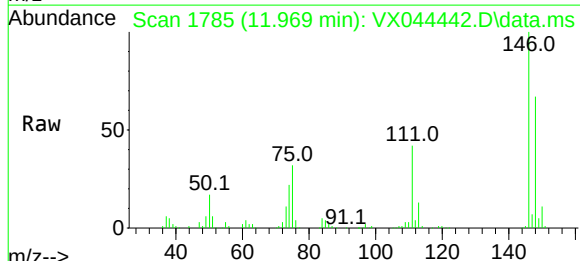
Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion:	146	Resp:	62799
Ion Ratio	Lower	Upper	
146	100		
111	40.5	21.4	64.2
148	63.8	31.7	95.1

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

#88

1,4-Dichlorobenzene

Concen: 19.716 ug/l

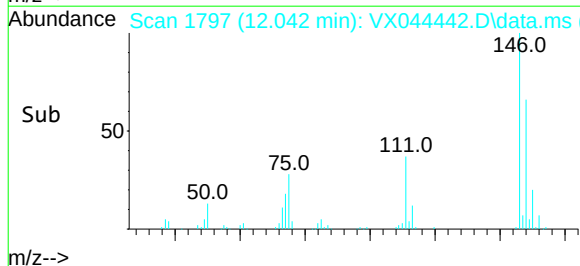
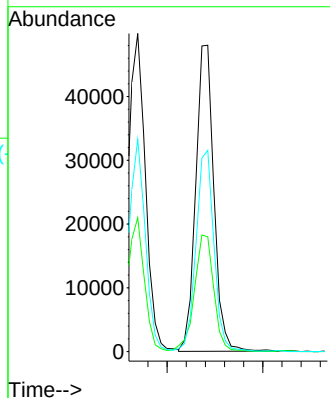
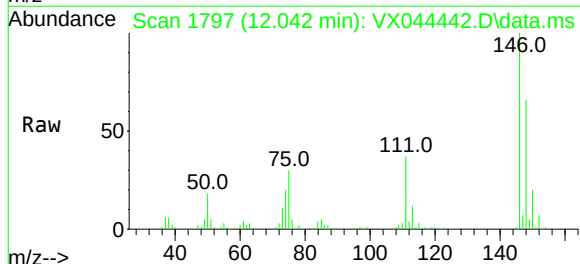
RT: 12.042 min Scan# 1797

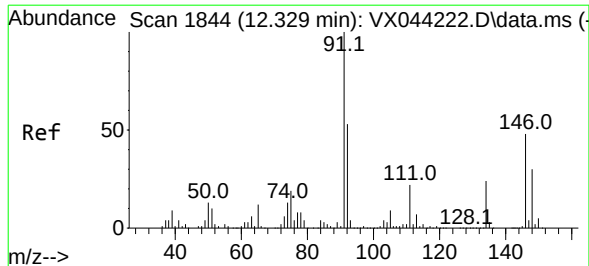
Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Tgt Ion:	146	Resp:	63145
Ion Ratio	Lower	Upper	
146	100		
111	40.9	21.0	63.0
148	64.7	32.3	96.8





#89

n-Butylbenzene

Concen: 18.510 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion: 91 Resp: 94807

Ion Ratio Lower Upper

91 100

92 54.5 26.6 79.7

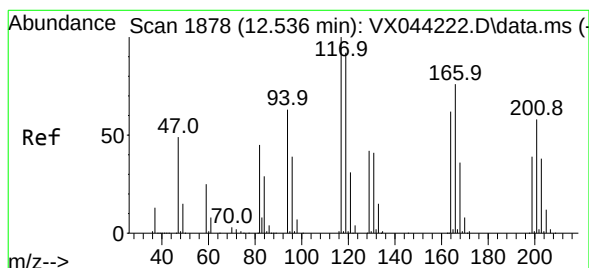
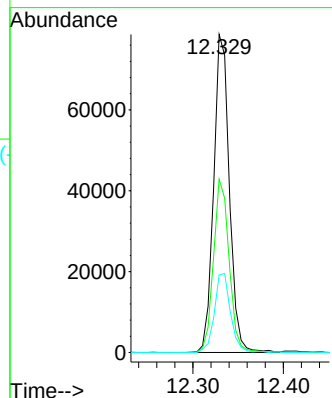
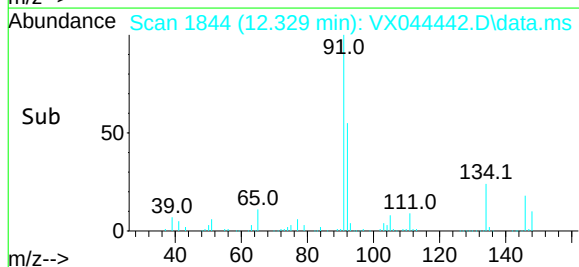
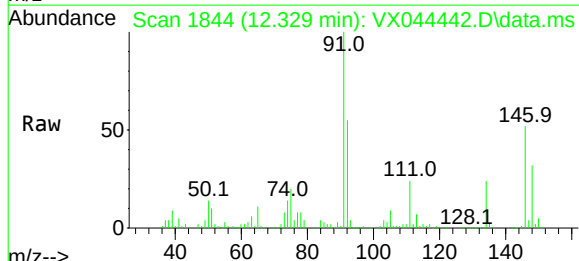
134 25.7 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#90

Hexachloroethane

Concen: 18.101 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX044442.D

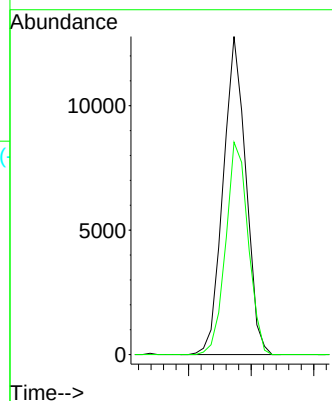
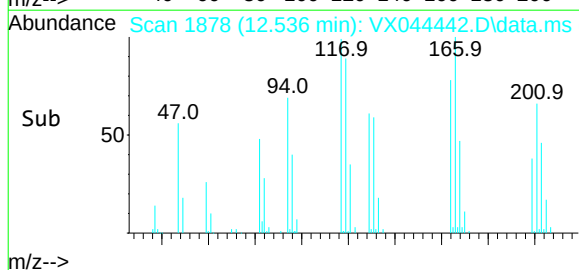
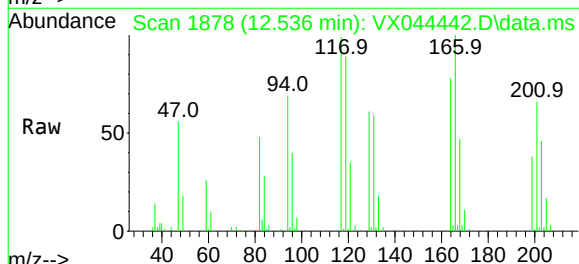
Acq: 20 Dec 2024 11:16

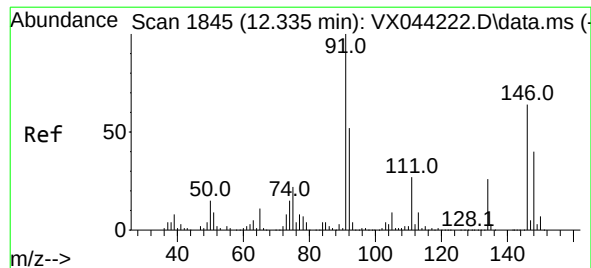
Tgt Ion:117 Resp: 16094

Ion Ratio Lower Upper

117 100

201 66.0 31.4 94.2





#91

1,2-Dichlorobenzene

Concen: 20.047 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion: 146 Resp: 64853

Ion Ratio Lower Upper

146 100

111 41.9 21.4 64.3

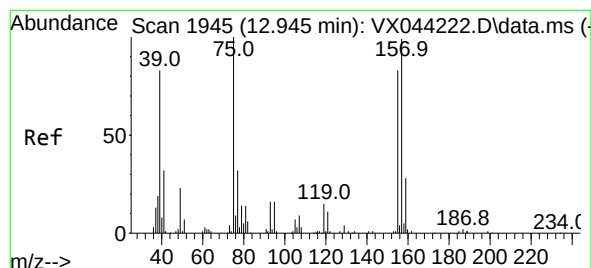
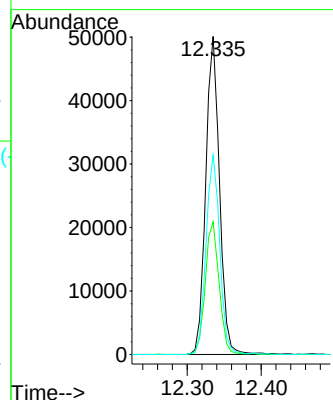
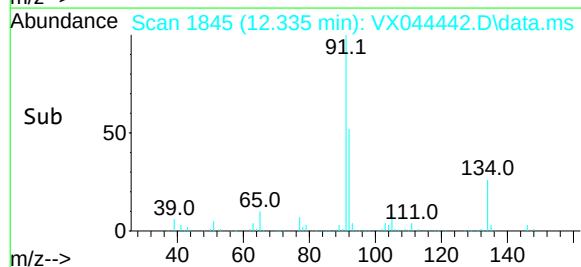
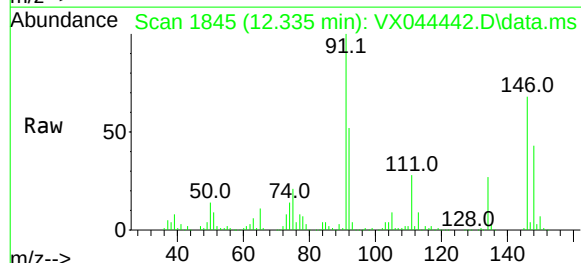
148 62.4 31.6 95.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 15.738 ug/l

RT: 12.939 min Scan# 1944

Delta R.T. -0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

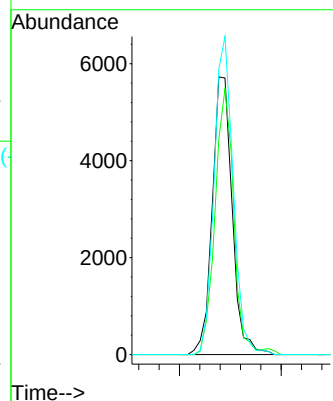
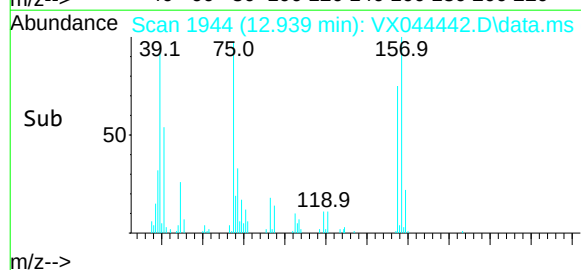
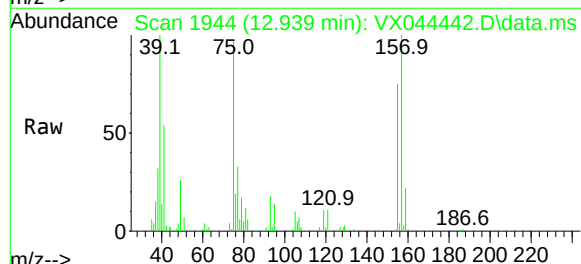
Tgt Ion: 75 Resp: 7805

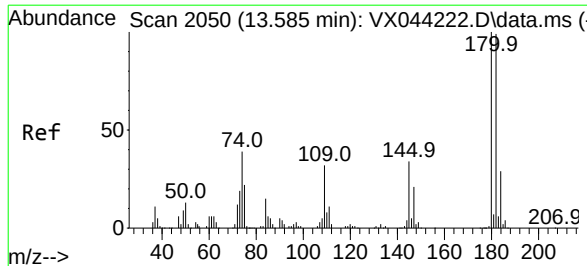
Ion Ratio Lower Upper

75 100

155 90.1 38.1 114.3

157 109.9 47.2 141.6





#93

1,2,4-Trichlorobenzene

Concen: 19.838 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

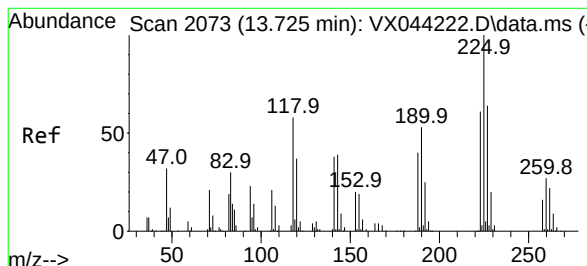
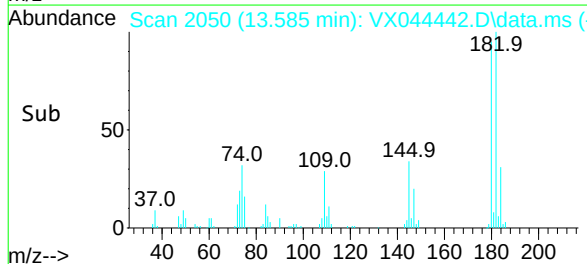
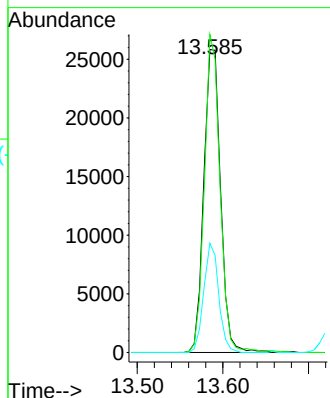
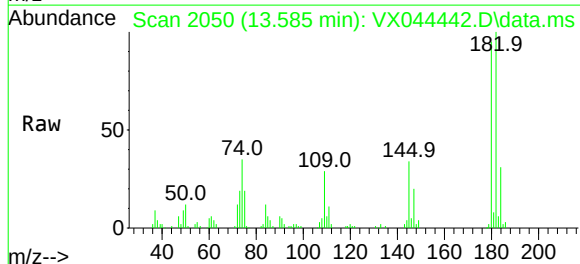
Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

Tgt Ion:	180	Resp:	35185
Ion Ratio	Lower	Upper	
180	100		
182	97.1	48.0	144.2
145	32.1	16.6	49.7

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

#94

Hexachlorobutadiene

Concen: 20.297 ug/l

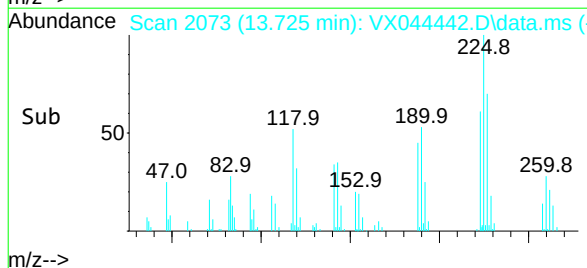
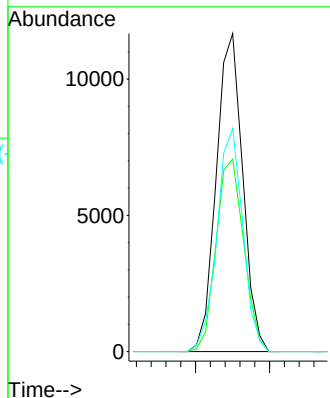
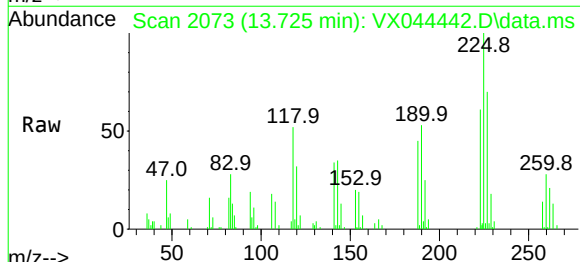
RT: 13.725 min Scan# 2073

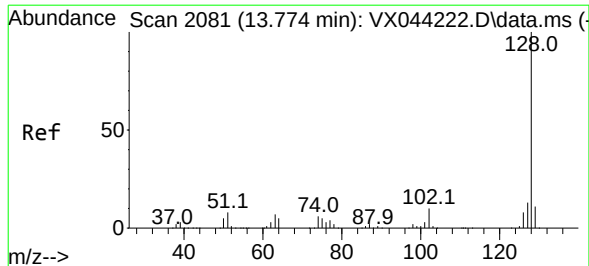
Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Tgt Ion:	225	Resp:	14480
Ion Ratio	Lower	Upper	
225	100		
223	63.2	30.8	92.4
227	68.5	32.1	96.3





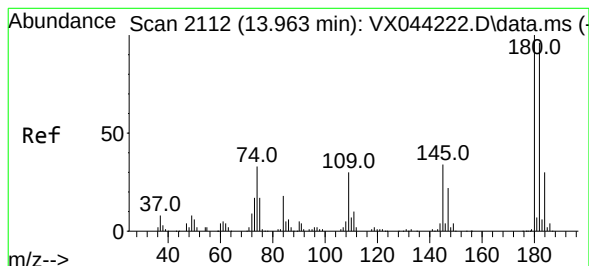
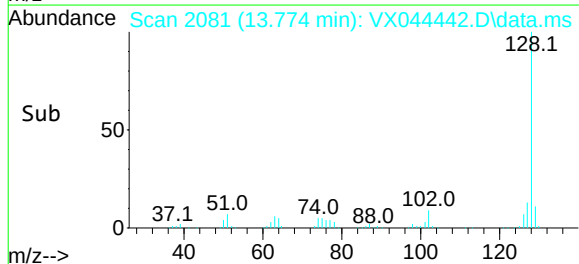
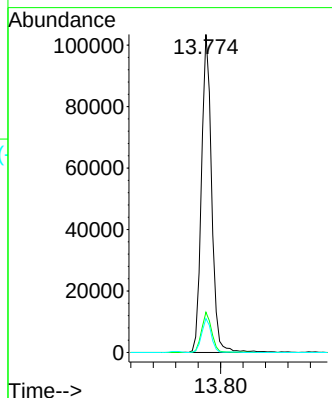
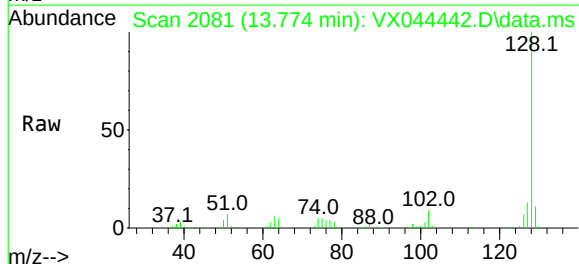
#95
Naphthalene
Concen: 18.828 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.5	15.7
129	10.0	9.0	13.4

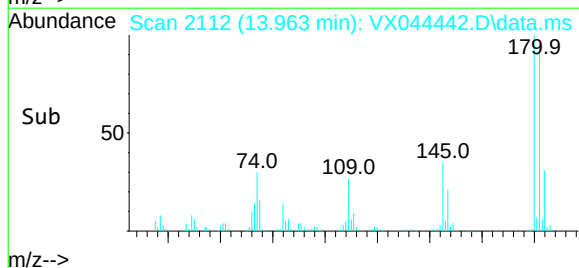
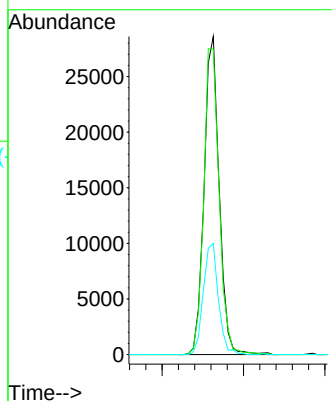
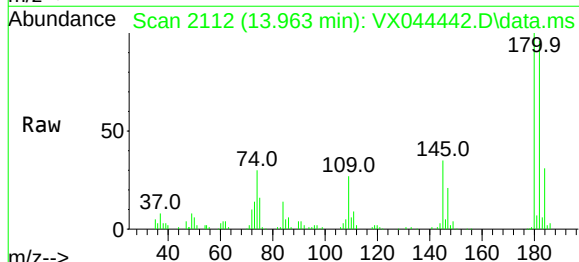
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#96
1,2,3-Trichlorobenzene
Concen: 19.524 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.4	48.0	144.0
145	34.9	17.7	53.1



Manual Integration Report

Sequence:	vx121124	Instrument	MSVOA_x
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX044219.D	1,1-Dichloropropene	JOHN	12/12/2024 9:55:42 AM	MMDadoda	12/12/2024 2:17:09 PM	Peak Integrated by Software
VSTDICC001	VX044219.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:55:42 AM	MMDadoda	12/12/2024 2:17:09 PM	Peak Integrated by Software
VSTDICC001	VX044219.D	1,4-Dichlorobenzene	JOHN	12/12/2024 9:55:42 AM	MMDadoda	12/12/2024 2:17:09 PM	Peak Integrated by Software
VSTDICC001	VX044219.D	1,4-Dioxane	JOHN	12/12/2024 9:55:42 AM	MMDadoda	12/12/2024 2:17:09 PM	Peak Integrated by Software
VSTDICC001	VX044219.D	Chloroethane	JOHN	12/12/2024 9:55:42 AM	MMDadoda	12/12/2024 2:17:09 PM	Peak Integrated by Software
VSTDICC001	VX044219.D	Methacrylonitrile	JOHN	12/12/2024 9:55:42 AM	MMDadoda	12/12/2024 2:17:09 PM	Peak Integrated by Software
VSTDICC005	VX044220.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:55:46 AM	MMDadoda	12/12/2024 2:17:07 PM	Peak Integrated by Software
VSTDICC005	VX044220.D	1,4-Dioxane	JOHN	12/12/2024 9:55:46 AM	MMDadoda	12/12/2024 2:17:07 PM	Peak Integrated by Software
VSTDICC005	VX044220.D	Tert butyl alcohol	JOHN	12/12/2024 9:55:46 AM	MMDadoda	12/12/2024 2:17:07 PM	Peak Integrated by Software
VSTDICC020	VX044221.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:56:10 AM	MMDadoda	12/12/2024 2:17:06 PM	Peak Integrated by Software
VSTDICC020	VX044221.D	1,4-Dioxane	JOHN	12/12/2024 9:56:10 AM	MMDadoda	12/12/2024 2:17:06 PM	Peak Integrated by Software
VSTDICC020	VX044221.D	Tert butyl alcohol	JOHN	12/12/2024 9:56:10 AM	MMDadoda	12/12/2024 2:17:06 PM	Peak Integrated by Software
VSTDICCC050	VX044222.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:56:15 AM	MMDadoda	12/12/2024 2:17:04 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	vx121124	Instrument	MSVOA_x
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC050	VX044222.D	1,4-Dioxane	JOHN	12/12/2024 9:56:15 AM	MMDadoda	12/12/2024 2:17:04 PM	Peak Integrated by Software
VSTDICCC050	VX044222.D	Tert butyl alcohol	JOHN	12/12/2024 9:56:15 AM	MMDadoda	12/12/2024 2:17:04 PM	Peak Integrated by Software
VSTDICC100	VX044223.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:56:19 AM	MMDadoda	12/12/2024 2:17:02 PM	Peak Integrated by Software
VSTDICC100	VX044223.D	1,4-Dioxane	JOHN	12/12/2024 9:56:19 AM	MMDadoda	12/12/2024 2:17:02 PM	Peak Integrated by Software
VSTDICC150	VX044224.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:56:22 AM	MMDadoda	12/12/2024 2:17:00 PM	Peak Integrated by Software
VSTDICC150	VX044224.D	1,4-Dioxane	JOHN	12/12/2024 9:56:22 AM	MMDadoda	12/12/2024 2:17:00 PM	Peak Integrated by Software
VSTDICV050	VX044226.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:56:27 AM	MMDadoda	12/12/2024 2:16:58 PM	Peak Integrated by Software
VSTDICV050	VX044226.D	1,4-Dioxane	JOHN	12/12/2024 9:56:27 AM	MMDadoda	12/12/2024 2:16:58 PM	Peak Integrated by Software
VSTDCCC050	VX044238.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:59:41 AM	MMDadoda	12/12/2024 2:16:39 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VX122024	Instrument	MSVOA_x
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX044438.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:23:58 AM	MMDadoda	12/24/2024 12:27:10 AM	Peak Integrated by Software
VX1220WBS01	VX044441.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:23:59 AM	MMDadoda	12/24/2024 12:27:12 AM	Peak Integrated by Software
VX1220WBSD0 1	VX044442.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:24:00 AM	MMDadoda	12/24/2024 12:27:14 AM	Peak Integrated by Software
P5314-02	VX044447.D	cis-1,2-Dichloroethene	JOHN	12/20/2024 2:37:27 PM	SAM	12/23/2024 7:24:02 AM	Peak Integrated by Software
P5314-02DL	VX044449.D	cis-1,2-Dichloroethene	JOHN	12/20/2024 2:37:32 PM	SAM	12/23/2024 7:24:04 AM	Peak Integrated by Software
VSTDCCC050	VX044464.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:24:15 AM	MMDadoda	12/24/2024 12:27:25 AM	Peak Integrated by Software

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX121124

Review By	John Carlone	Review On	12/12/2024 10:00:01 AM
Supervise By	Maresh Dadoda	Supervise On	12/12/2024 2:17:22 PM
SubDirectory	VX121124	HP Acquire Method	HP Processing Method 82X121124W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP132057		
Initial Calibration Stds	VP132059,VP132060,VP132061,VP132062,VP132063,VP132064		
CCC	VP132059,VP132134,VP132135,VP132136,VP132137,VP132138,VP132139		
Internal Standard/PEM			
ICV/I.BLK	VP132065		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX044218.D	11 Dec 2024 10:13	JC/MD	Ok
2	VSTDICC001	VX044219.D	11 Dec 2024 10:41	JC/MD	Ok,M
3	VSTDICC005	VX044220.D	11 Dec 2024 11:27	JC/MD	Ok,M
4	VSTDICC020	VX044221.D	11 Dec 2024 11:50	JC/MD	Ok,M
5	VSTDICCC050	VX044222.D	11 Dec 2024 12:14	JC/MD	Ok,M
6	VSTDICC100	VX044223.D	11 Dec 2024 12:37	JC/MD	Ok,M
7	VSTDICC150	VX044224.D	11 Dec 2024 13:00	JC/MD	Ok,M
8	IBLK	VX044225.D	11 Dec 2024 13:23	JC/MD	Ok
9	VSTDICV050	VX044226.D	11 Dec 2024 13:51	JC/MD	Ok,M
10	VX1211MBL01	VX044227.D	11 Dec 2024 14:28	JC/MD	Ok
11	VX1211WBL01	VX044228.D	11 Dec 2024 14:51	JC/MD	Ok
12	VX1211WBS01	VX044229.D	11 Dec 2024 15:42	JC/MD	Ok,M
13	VX1211WBSD01	VX044230.D	11 Dec 2024 16:08	JC/MD	Ok,M
14	IBLK	VX044231.D	11 Dec 2024 16:31	JC/MD	Ok
15	P4368-07 0.2PPB	VX044232.D	11 Dec 2024 16:54	JC/MD	Ok,M
16	P4368-07 0.5PPB	VX044233.D	11 Dec 2024 17:18	JC/MD	Ok,M
17	P4368-07 0.75PPB	VX044234.D	11 Dec 2024 17:41	JC/MD	Ok,M
18	P4368-07 2.5PPB	VX044235.D	11 Dec 2024 18:04	JC/MD	Ok,M
19	P4368-08 1.0PPB	VX044236.D	11 Dec 2024 18:28	JC/MD	Ok,M
20	P4368-08 5.0PPB	VX044237.D	11 Dec 2024 18:51	JC/MD	Ok,M
21	VSTDCCC050	VX044238.D	11 Dec 2024 19:14	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX122024

Review By	Semsettin Yesilyurt	Review On	12/23/2024 7:24:21 AM
Supervise By	John Carlone	Supervise On	12/23/2024 9:05:17 AM
SubDirectory	VX122024	HP Acquire Method	HP Processing Method 82X121124W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP132253		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132254,VP132255		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX044437.D	20 Dec 2024 08:49	JC/MD	Ok
2	VSTDCCC050	VX044438.D	20 Dec 2024 09:16	JC/MD	Ok,M
3	VX1220MBL01	VX044439.D	20 Dec 2024 10:00	JC/MD	Ok
4	VX1220WBL01	VX044440.D	20 Dec 2024 10:23	JC/MD	Ok
5	VX1220WBS01	VX044441.D	20 Dec 2024 10:46	JC/MD	Ok,M
6	VX1220WBSD01	VX044442.D	20 Dec 2024 11:16	JC/MD	Ok,M
7	P5261-12DL	VX044443.D	20 Dec 2024 11:39	JC/MD	Ok
8	P5281-01DL	VX044444.D	20 Dec 2024 12:03	JC/MD	Ok
9	P5314-01	VX044445.D	20 Dec 2024 12:26	JC/MD	Ok
10	P5314-03	VX044446.D	20 Dec 2024 12:49	JC/MD	Ok
11	P5314-02	VX044447.D	20 Dec 2024 13:13	JC/MD	Dilution
12	P5314-04	VX044448.D	20 Dec 2024 13:36	JC/MD	ReRun
13	P5314-02DL	VX044449.D	20 Dec 2024 13:59	JC/MD	Ok,M
14	P5317-02DL	VX044450.D	20 Dec 2024 14:23	JC/MD	Ok
15	P5281-02	VX044451.D	20 Dec 2024 14:46	JC/MD	Ok
16	P5317-03	VX044452.D	20 Dec 2024 15:09	JC/MD	Ok,M
17	P5356-01	VX044453.D	20 Dec 2024 15:33	JC/MD	Ok
18	P5314-04	VX044454.D	20 Dec 2024 15:56	JC/MD	Ok
19	P5281-06DL	VX044455.D	20 Dec 2024 16:19	JC/MD	Ok
20	P5330-04	VX044456.D	20 Dec 2024 16:43	JC/MD	Ok
21	PB165734TB	VX044457.D	20 Dec 2024 17:06	JC/MD	Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QCBatch ID # VX122024

Review By	Semsettin Yesilyurt	Review On	12/23/2024 7:24:21 AM
Supervise By	John Carlone	Supervise On	12/23/2024 9:05:17 AM
SubDirectory	VX122024	HP Acquire Method	HP Processing Method 82X121124W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP132253		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132254,VP132255		

22	P5280-03	VX044458.D	20 Dec 2024 17:30	JC/MD	Ok
23	P5280-04MS	VX044459.D	20 Dec 2024 17:53	JC/MD	Ok,M
24	P5280-05MSD	VX044460.D	20 Dec 2024 18:16	JC/MD	Ok,M
25	P5261-13MS	VX044461.D	20 Dec 2024 18:39	JC/MD	Ok,M
26	P5261-14MSD	VX044462.D	20 Dec 2024 19:03	JC/MD	Ok,M
27	P5355-02	VX044463.D	20 Dec 2024 19:26	JC/MD	Ok
28	VSTDCCC050	VX044464.D	20 Dec 2024 19:49	JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX121124

Review By	John Carlone	Review On	12/12/2024 10:00:01 AM
Supervise By	Maresh Dadoda	Supervise On	12/12/2024 2:17:22 PM
SubDirectory	VX121124	HP Acquire Method	HP Processing Method 82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132057
Initial Calibration Stds	VP132059,VP132060,VP132061,VP132062,VP132063,VP132064
CCC	VP132059,VP132134,VP132135,VP132136,VP132137,VP132138,VP132139
Internal Standard/PEM	
ICV/I.BLK	VP132065
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX044218.D	11 Dec 2024 10:13		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX044219.D	11 Dec 2024 10:41		JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX044220.D	11 Dec 2024 11:27		JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX044221.D	11 Dec 2024 11:50		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX044222.D	11 Dec 2024 12:14		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX044223.D	11 Dec 2024 12:37		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX044224.D	11 Dec 2024 13:00		JC/MD	Ok,M
8	IBLK	IBLK	VX044225.D	11 Dec 2024 13:23		JC/MD	Ok
9	VSTDICV050	ICVVX121124	VX044226.D	11 Dec 2024 13:51		JC/MD	Ok,M
10	VX1211MBL01	VX1211MBL01	VX044227.D	11 Dec 2024 14:28		JC/MD	Ok
11	VX1211WBL01	VX1211WBL01	VX044228.D	11 Dec 2024 14:51		JC/MD	Ok
12	VX1211WBS01	VX1211WBS01	VX044229.D	11 Dec 2024 15:42		JC/MD	Ok,M
13	VX1211WBSD01	VX1211WBSD01	VX044230.D	11 Dec 2024 16:08		JC/MD	Ok,M
14	IBLK	IBLK	VX044231.D	11 Dec 2024 16:31		JC/MD	Ok
15	P4368-07 0.2PPB	LOD-MDL-WATER-01-	VX044232.D	11 Dec 2024 16:54		JC/MD	Ok,M
16	P4368-07 0.5PPB	LOD-MDL-WATER-01-	VX044233.D	11 Dec 2024 17:18		JC/MD	Ok,M
17	P4368-07 0.75PPB	LOD-MDL-WATER-01-	VX044234.D	11 Dec 2024 17:41		JC/MD	Ok,M
18	P4368-07 2.5PPB	LOD-MDL-WATER-01-	VX044235.D	11 Dec 2024 18:04		JC/MD	Ok,M

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX121124

Review By	John Carlone	Review On	12/12/2024 10:00:01 AM				
Supervise By	Mahesh Dadoda	Supervise On	12/12/2024 2:17:22 PM				
SubDirectory	VX121124	HP Acquire Method	HP Processing Method		82X121124W.M		
STD. NAME		STD REF.#					
Tune/Reschk		VP132057					
Initial Calibration Stds		VP132059,VP132060,VP132061,VP132062,VP132063,VP132064					
CCC		VP132059,VP132134,VP132135,VP132136,VP132137,VP132138,VP132139					
Internal Standard/PEM							
ICV/I.BLK		VP132065					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							

19	P4368-08 1.0PPB	LOQ-WATER-02-QT4-2	VX044236.D	11 Dec 2024 18:28		JC/MD	Ok,M
20	P4368-08 5.0PPB	LOQ-WATER-02-QT4-2	VX044237.D	11 Dec 2024 18:51		JC/MD	Ok,M
21	VSTDCCC050	VSTDCCC050EC	VX044238.D	11 Dec 2024 19:14		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX122024

Review By	Semsettin Yesilyurt	Review On	12/23/2024 7:24:21 AM
Supervise By	John Carlone	Supervise On	12/23/2024 9:05:17 AM
SubDirectory	VX122024	HP Acquire Method	HP Processing Method 82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP132253
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132254,VP132255

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX044437.D	20 Dec 2024 08:49		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX044438.D	20 Dec 2024 09:16	V13516	JC/MD	Ok,M
3	VX1220MBL01	VX1220MBL01	VX044439.D	20 Dec 2024 10:00		JC/MD	Ok
4	VX1220WBL01	VX1220WBL01	VX044440.D	20 Dec 2024 10:23		JC/MD	Ok
5	VX1220WBS01	VX1220WBS01	VX044441.D	20 Dec 2024 10:46		JC/MD	Ok,M
6	VX1220WBSD01	VX1220WBSD01	VX044442.D	20 Dec 2024 11:16		JC/MD	Ok,M
7	P5261-12DL	RE125D1-20241210DL	VX044443.D	20 Dec 2024 11:39	vial B pH<2	JC/MD	Ok
8	P5281-01DL	RE114D1-20241212DL	VX044444.D	20 Dec 2024 12:03	vial B pH<2	JC/MD	Ok
9	P5314-01	BP-VPB-190A-TB-2024	VX044445.D	20 Dec 2024 12:26	vial A pH<2	JC/MD	Ok
10	P5314-03	BP-VPB-190A-GW-698	VX044446.D	20 Dec 2024 12:49	vial A +B pH<2	JC/MD	Ok
11	P5314-02	BP-VPB-190A-GW-678	VX044447.D	20 Dec 2024 13:13	vial A pH<2 Needs 5x dilution	JC/MD	Dilution
12	P5314-04	VPB190A-HYD-202412	VX044448.D	20 Dec 2024 13:36	vial A pH<2 Carryover	JC/MD	ReRun
13	P5314-02DL	BP-VPB-190A-GW-678	VX044449.D	20 Dec 2024 13:59	vial B pH<2	JC/MD	Ok,M
14	P5317-02DL	RW4-20241216DL	VX044450.D	20 Dec 2024 14:23	vial B pH<2	JC/MD	Ok
15	P5281-02	BPOW1-7-20241212	VX044451.D	20 Dec 2024 14:46	vial B pH<2	JC/MD	Ok
16	P5317-03	TT191D1-20241216	VX044452.D	20 Dec 2024 15:09	vial B pH<2	JC/MD	Ok,M
17	P5356-01	STAND-PIPE	VX044453.D	20 Dec 2024 15:33	vial A pH<2	JC/MD	Ok
18	P5314-04	VPB190A-HYD-202412	VX044454.D	20 Dec 2024 15:56	vial B pH<2	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX122024

Review By	Semsettin Yesilyurt	Review On	12/23/2024 7:24:21 AM
Supervise By	John Carlone	Supervise On	12/23/2024 9:05:17 AM
SubDirectory	VX122024	HP Acquire Method	HP Processing Method 82X121124W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP132253		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132254,VP132255		

19	P5281-06DL	RE115D1-20241213DL	VX044455.D	20 Dec 2024 16:19	vial B pH<2	JC/MD	Ok
20	P5330-04	TP-5	VX044456.D	20 Dec 2024 16:43	vial A pH#5.0	JC/MD	Ok
21	PB165734TB	PB165734TB	VX044457.D	20 Dec 2024 17:06		JC/MD	Ok
22	P5280-03	BPOW6-11-20241212	VX044458.D	20 Dec 2024 17:30	vial A pH<2	JC/MD	Ok
23	P5280-04MS	BPOW6-11-20241212M	VX044459.D	20 Dec 2024 17:53	vial A pH<2	JC/MD	Ok,M
24	P5280-05MSD	BPOW6-11-20241212M	VX044460.D	20 Dec 2024 18:16	vial A pH<2	JC/MD	Ok,M
25	P5261-13MS	RE125D1-20241210MS	VX044461.D	20 Dec 2024 18:39	vial A pH<2	JC/MD	Ok,M
26	P5261-14MSD	RE125D1-20241210MS	VX044462.D	20 Dec 2024 19:03	vial A pH<2	JC/MD	Ok,M
27	P5355-02	RBR251688	VX044463.D	20 Dec 2024 19:26	vial A pH#5.0	JC/MD	Ok
28	VSTDCCC050	VSTDCCC050EC	VX044464.D	20 Dec 2024 19:49		JC/MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : P5314

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: VX122024,

Standard ID :

VP130430,VP131746,VP131767,VP131987,VP132005,VP132035,VP132096,VP132253,VP132254,VP132255,

Chemical ID :

V13391,V13445,V13457,V13460,V13465,V13466,V13707,V13806,V14020,V14021,V14105,V14106,V14145,V14152,V14154,V14173,V14174,V14192,V14194,V14201,V14289,V14434,V14437,V14614,V14630,V14631,V14632,V14633,V14650,V14651,V14652,W3112,

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
617	8260 Surrogate, 400PPM	VP130430	09/20/2024	02/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
09/26/2024								

FROM 0.40000ml of V13707 + 24.60000ml of V14145 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
247	8260 Internal Standard, 250PPM	VP131746	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
11/23/2024								

FROM 0.50000ml of V14289 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
218	BFB, 25PPM	VP131767	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								11/27/2024

FROM 0.50000ml of V13391 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP131987	12/06/2024	01/05/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/12/2024

FROM 1.00000ml of V14652 + 1.50000ml of V14650 + 1.50000ml of V14651 + 21.00000ml of V14152 = Final Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP132005	12/09/2024	01/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda 12/12/2024

FROM 0.40000ml of V13445 + 1.00000ml of V13806 + 1.00000ml of V14020 + 1.00000ml of V14021 + 1.00000ml of V14105 +
1.00000ml of V14106 + 1.00000ml of V14173 + 1.00000ml of V14174 + 1.00000ml of V14194 + 1.00000ml of V14434 +
1.00000ml of V14437 + 1.50000ml of V14192 + 1.50000ml of V14201 + 10.60000ml of V14152 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1810	8260 Working Std(2-CVE)-800ppm	VP132035	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda 12/12/2024

FROM 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = Final
Quantity: 50.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
719	8260 Working STD (BCM)-First source, 400PPM	VP132096	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/19/2024

FROM 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml of V14614 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
589	BFB TUNE CHECK	VP132253	12/20/2024	12/21/2024	John Carlone	None	None	Maresh Dadoda
								12/23/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
620	50 PPB CCC, 8260-Water	VP132254	12/20/2024	12/21/2024	John Carlone	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP131987 + 0.01250ml of VP132005 + 0.01250ml of VP132035 = Final Quantity: 40.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
620	50 PPB CCC, 8260-Water	VP132255	12/20/2024	12/21/2024	John Carlone	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP131987 + 0.01250ml of VP132005 + 0.01250ml of VP132035 = Final Quantity: 40.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0181905	02/28/2025	11/26/2024 / SAM	01/23/2023 / SAM	V13445

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13457

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13460

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13466

CHEMICAL RECEIPT LOG BOOK

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	06/10/2025	06/10/2024 / SAM	04/12/2023 / SAM	V13707

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	A0194279	03/16/2025	09/16/2024 / SAM	05/31/2023 / SAM	V13806

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)	032922	03/29/2025	11/26/2024 / SAM	11/22/2023 / SAM	V14020

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)	032922	03/29/2025	11/26/2024 / SAM	11/22/2023 / SAM	V14021

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	A0205179	05/26/2025	11/26/2024 / SAM	12/22/2023 / SAM	V14105

LOTS

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	A0205179	05/26/2025	11/26/2024 / SAM	12/22/2023 / SAM	V14106

LOTS

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	02/28/2025	08/29/2024 / SAM	02/06/2024 / SAM	V14145

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	04/14/2025	10/14/2024 / SAM	02/06/2024 / SAM	V14152

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	05/18/2025	11/18/2024 / pedro	02/06/2024 / SAM	V14154

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	05/26/2025	11/26/2024 / SAM	02/20/2024 / SAM	V14173

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	05/26/2025	11/26/2024 / SAM	02/20/2024 / SAM	V14174

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	05/26/2025	11/26/2024 / SAM	02/28/2024 / SAM	V14192

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	05/26/2025	11/26/2024 / SAM	02/28/2024 / SAM	V14194

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	05/26/2025	11/26/2024 / SAM	02/28/2024 / SAM	V14201

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	11/22/2025	11/22/2024 / SAM	04/15/2024 / SAM	V14289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	05/26/2025	11/26/2024 / SAM	08/15/2024 / SAM	V14434

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	05/26/2025	11/26/2024 / SAM	08/15/2024 / SAM	V14437

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	120524	01/05/2025	12/06/2024 / SAM	12/06/2024 / SAM	V14650

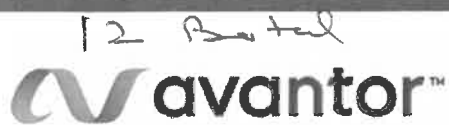
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	120524	01/05/2025	12/06/2024 / SAM	12/06/2024 / SAM	V14651

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)	120524	01/05/2025	12/06/2024 / SAM	12/06/2024 / SAM	V14652

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



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 ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration 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

Jamie Ethier
Vice President Global Quality



CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021624**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): **Methanol**
Lot#: **EG359-USQ12**

Formulated By: <i>Prashant Chauhan</i>		021624
		DATE
Reviewed By: <i>Pedro L. Rentes</i>		021624
		DATE

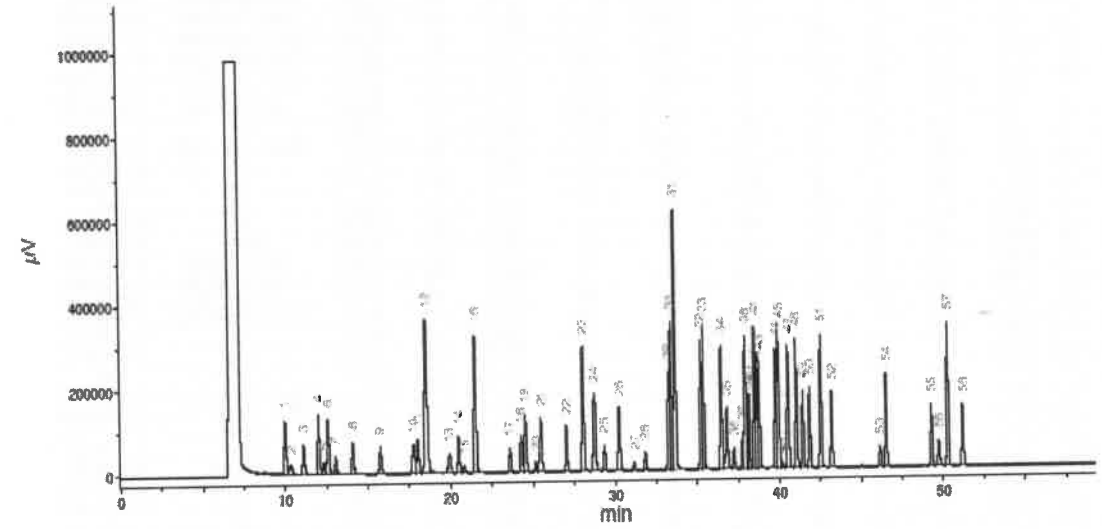
Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty: **5E-05** Flask Uncertainty: **0.021**

Compound	(RM#)	Lot Number	Di. Factor	Initial Vol. (mL)	Initial Conc. (µg/mL)	Nominal Conc. (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
														CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102395	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8581	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)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041F	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)	IK18CA5000K	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)	06126PK	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	or-rat 14800mg/kg
8. Iodomethane	(0489)	5HBF8718V	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)	or-rat 70mg/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)	or-rat 3480mg/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)	or-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK6579	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)	or-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)	or-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)	or-rat 700mg/kg
14. 2-Nitropropane	(0461)	14002JK	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)	or-rat 720mg/kg
15. Perfluorooctane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.8	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 (7800mg/m3/8H)	or-rat 43mg/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	N/A
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	or-rat 910mg/kg
19. cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	or-rat 840mg/kg
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	156-60-5	N/A	N/A
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	or-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)	or-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)	or-rat 930mg/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)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/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	or-rat 100mg/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	or-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. Tetrachloroethane	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) (flnal)	or-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)	or-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	96-12-6	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromomethane	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)	or-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	107-08-2	50 ppm (8H)	or-rat 870mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	un-rat 3600mg/kg
36. 1,1-Dichloropropane	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-56-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-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	or-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)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H) (skin)	or-rat 636mg/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)	or-rat 2400mg/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 (50mg/m3/8H)	or-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 4900mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
51. Styrene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	or-rat 1390mg/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	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-57-8	N/A	or-rat 5000mg/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	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	or-rat 2240mg/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg
61. 2-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	or-rat 2100mg/kg
62. 4-Chlorotoluene	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)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	or-rat 1063mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	or-rat 900mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.							

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., 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-Dichloroethane	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-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.46
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.28
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Hydropropane	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-Dichloropropene	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	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	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-butene	36.48
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropene	37.77
38	n-Propylbenzene	37.99
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
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.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection. Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 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)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021624**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): **Methanol**
Lot#: **EG359-USQ12**

		021624
Formulated By:	Prashant Chauhan	DATE
		021624
Reviewed By:	Pedro L. Rentes	DATE

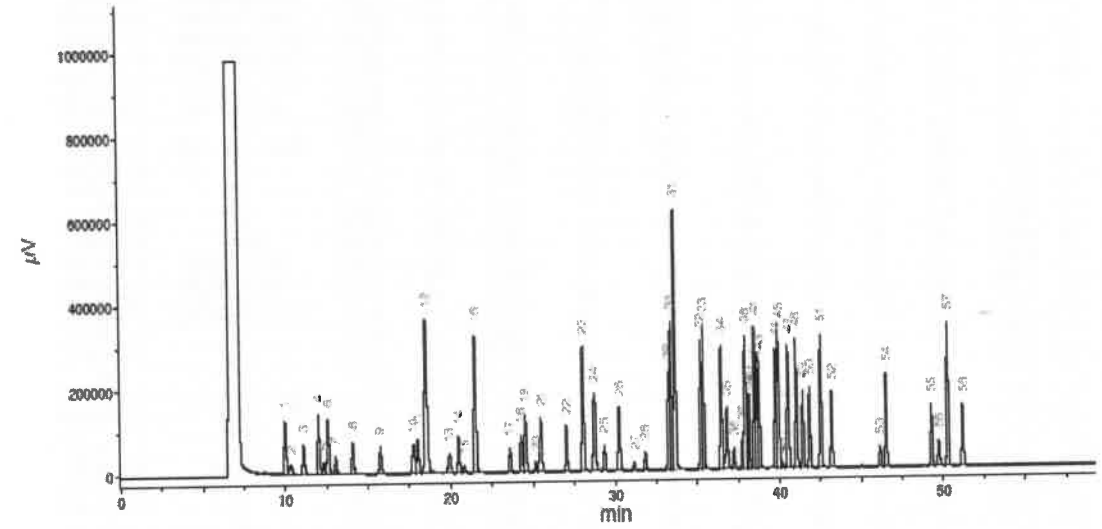
Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty
Flask Uncertainty

Compound	(RM#)	Lot	Di.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	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)	or-rat 2400mg/kg	
2. Allyl chloride (3-Chloropropene)	(0325)	102395	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8h)	or-rat 700mg/kg	
3. Carbon disulfide	(0060)	MKCR8581	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)	or-rat 1200mg/kg	
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A	
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A	
6. Diethyl ether	(0153)	IK18CA5000K	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)	06126PK	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	or-rat 14800mg/kg	
8. Iodomethane	(0489)	5HBF8718V	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)	or-rat 70mg/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)	or-rat 3480mg/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)	or-rat 1200mg/kg	
11. Methyl acrylate	(1075)	SHBK6079	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)	or-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)	or-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)	or-rat 700mg/kg	
14. 2-Nitropropane	(0461)	14002JK	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)	or-rat 7200mg/kg	
15. Perfluorooctane	(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 (7800mg/m3/8h)	or-rat 43mg/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	N/A	
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	N/A	
19. cis-1,2-Dichloroethane	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-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	156-60-5	N/A	N/A	
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	or-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)	or-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)	or-rat 930mg/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)	or-rat 2350mg/kg	
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/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	or-rat 100mg/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	or-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. Tetrachloroethane	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) (flnal)	or-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)	or-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	96-12-6	0.001 ppm	or-rat 170mg/kg	
32. 1,2-Dibromomethane	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)	or-rat 100mg/kg	
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-08-2	50 ppm (8h)	or-rat 870mg/kg	
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	78-57-5	75 ppm (350mg/m3/8h)	or-rat 1947mg/kg	
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	22.9	142-28-9	N/A	un-rat 3600mg/kg	
36. 1,1-Dichloropropane	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10661-01-5	N/A	N/A	
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10661-02-6	N/A	N/A	
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	22.9	87-68-3	0.02 ppm (0.24mg/m3/8h)	or-rat 82mg/kg	
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	or-rat 670mg/kg	
40. 1,1,1,2-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)	or-rat 800mg/kg	
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8h) (skin)	or-rat 636mg/kg	
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8h)	or-rat 2400mg/kg	
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (50mg/m3/8h)	or-rat 149.6mg/kg	
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/kg	
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A	
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8h)	or-rat >2000mg/kg	
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg	
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8h)	or-rat 4900mg/kg	
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg	
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-98-8	200 ppm	or-rat 5000mg/kg	
51. Styrene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	97-61-6	N/A	or-rat 1390mg/kg	
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/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	95-63-6	N/A	or-rat 5g/kg	
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-67-8	N/A	or-rat 5000mg/kg	
55. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-49-8	50 ppm (250mg/m3/8h)	or-rat 3900mg/kg	
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg	
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg	
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	96-46-7	75 ppm (450mg/m3/8h)	or-rat 900mg/kg	
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	96-52-6	50 ppm (245mg/m3/8h)	or-rat 1400mg/kg	
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-95-1	N/A	or-rat 8040mg/kg	
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	96-47-6	100 ppm (435mg/m3/8h)	or-rat 1364mg/kg	
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8h)	or-rat 5g/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		

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., 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-Dichloroethane	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-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.46
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.38
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Helopropene	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-Dichloropropene	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	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	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-butene	36.48
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropene	37.77
38	n-Propylbenzene	37.99
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
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.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection. Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 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)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

Part Number:

Lot Number:

Description:

95319

032922

Revised Additions Mix

11 components

032925

Refrigerate (4 °C)

Varied

6UTB

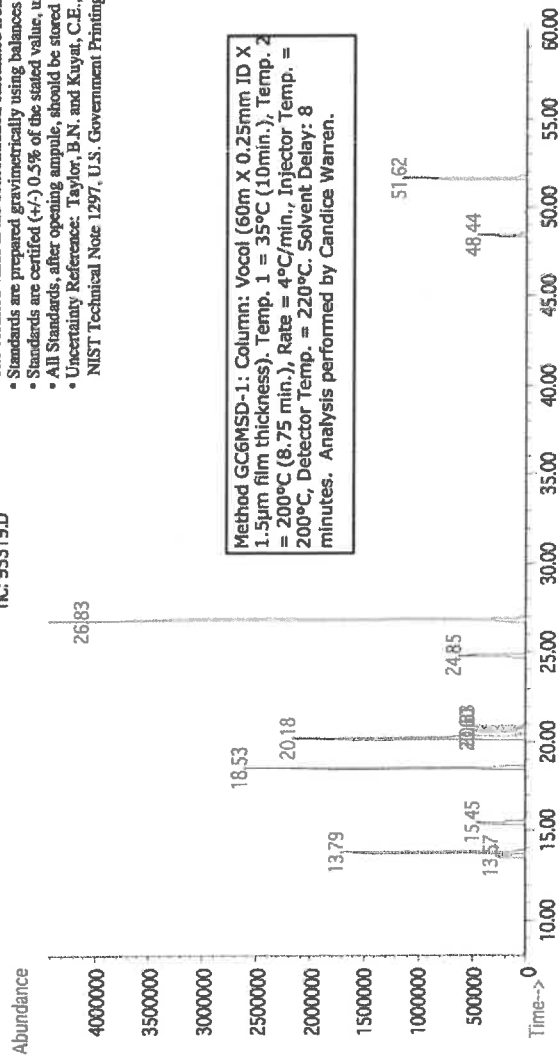
Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty

0.012 Flask Uncertainty

[illegible][illegible]

TIC: 95319.D



• 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).

* 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).

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

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
Address 44 Rossotto Dr.
Hamden CT, 06514

Emergency Telephone USA & CANADA 1-800-536-5053
Emergency Telephone International 1-352-323-3500
Date Prepared/Revised January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 Highly Flammable Liquid and Vapor
H370 Cause damage to organs
P271 Use in ventilated area
P302,332 If on skin, wash with soap and water

H301, 311, 331 Toxic if swallowed, skin contact, inhaled
H351 Suspected of causing cancer
P280 Use gloves, eye protection/face shield
P305,351,338 If in eyes, remove contacts, rinse with water

Signal Word: DANGER

Section III - Composition

Components:

CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
67-56-1	2,769 mg/kg	200 ppm	> 99

Methanol

See Certified Weight Report For Other Analytes Present At Trace Quantities.
INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice
If inhaled
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Wash with soap and water. Consult a physician.
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
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.
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Wear self contained breathing apparatus for fire fighting if necessary.

Suitable extinguishing media
Protective equipment for fire

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
TWA 200 ppm
Skin notation
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

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 chemicals or 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.

Section XVI. Misc. 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 XV. REGULATORY INFORMATION

DOT (US) UN number: 1280 Class: 3 Packing group: II
Proper shipping name: Methanol
ATA UN number: 1280 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XIV. TRANSPORT INFORMATION

Dispose with normal Laboratory Solvent Waste.

Section XIII. DISPOSAL CONSIDERATIONS

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

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 XI. TOXICOLOGICAL INFORMATION

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 X. STABILITY AND REACTIVITY

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Solubility in Water			
COMPLETE			
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number:
032922
Description:
Revised Additions Mix

95319
032922
11 components

Solvent(s): Methanol
Lot# EC592-US

Expiration Date:
032925
Recommended Storage:
Refrigerate (4 °C)
Nominal Concentration (µg/mL):
Varied
NIST Test ID#:
6UTB

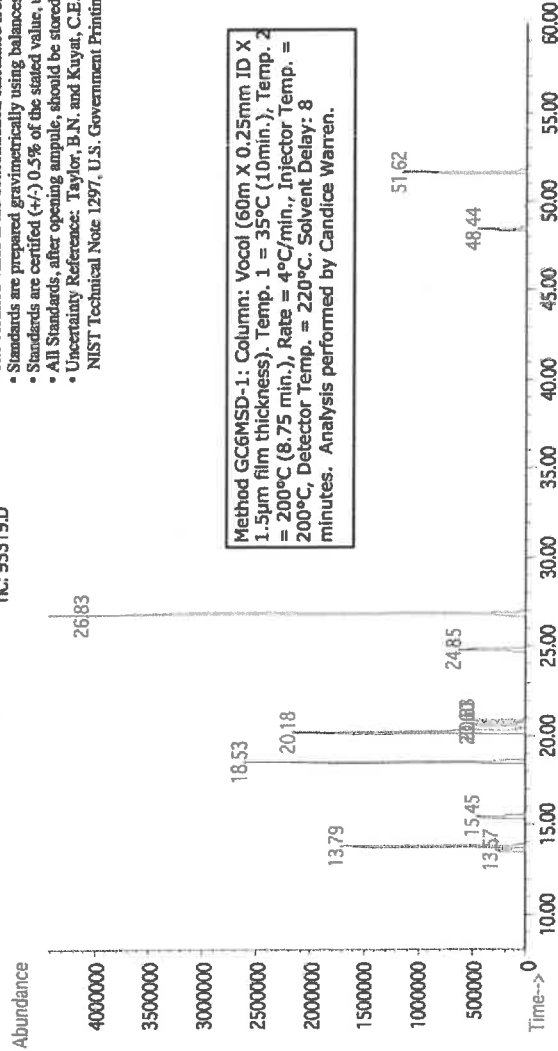
Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.012 Flask Uncertainty

<i>Prashant Chauhan</i>		032922
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentas</i>		032922
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight (µg)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
										(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA) LD50
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01030	10001.5	40.5	107-13-1	N/A orl-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A orl-rat 2870mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	8.2	110-82-7	300 ppm (1050mg/m3/8H) orl-rat 12705mg/kg
4. Di-Isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20203	0.20215	2001.2	8.2	109-20-3	500 ppm (2100mg/m3/8H) orl-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin) orl-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin) orl-gpg 4970mg/kg
7. Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A
8. Methyl tert-butyl ether (MTBE)	209	02197LJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A orl-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A orl-rat 38mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m3/8H) orl-rat 1650mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	8.7	488-23-3	N/A orl-rat 6408mg/kg

TIC: 95319.D



* 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).

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

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
Address 44 Rossotto Dr.
Hamden CT, 06514

Emergency Telephone USA & CANADA 1-800-536-5053
Emergency Telephone International 1-352-323-3500
Date Prepared/Revised January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	  
H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water	

Section III - Composition

Components:

CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
67-56-1	2,769 mg/kg	200 ppm	> 99

Methanol

See Certified Weight Report For Other Analytes Present At Trace Quantities.
INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice
If inhaled
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
If swallowed
If in case of skin contact
If in case of eye contact
If swallowed

Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
Inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Wash with soap and water. Consult a physician.
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability
Suitable extinguishing media
Protective equipment for fire

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.
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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
TWA 200 ppm
Skin notation
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

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 chemicals or 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.

Section XVI. Misc. 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 XV. REGULATORY INFORMATION

DOT (US) UN number: 1280 Class: 3 Packing group: II
Proper shipping name: Methanol
ATA UN number: 1280 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XIV. TRANSPORT INFORMATION

Dispose with normal Laboratory Solvent Waste.

Section XIII. DISPOSAL CONSIDERATIONS

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 6400 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 XI. TOXICOLOGICAL INFORMATION

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 X. STABILITY AND REACTIVITY

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Solubility in Water			
COMPLETE			
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79



Certified Reference Material CRM



See 1216124
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
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

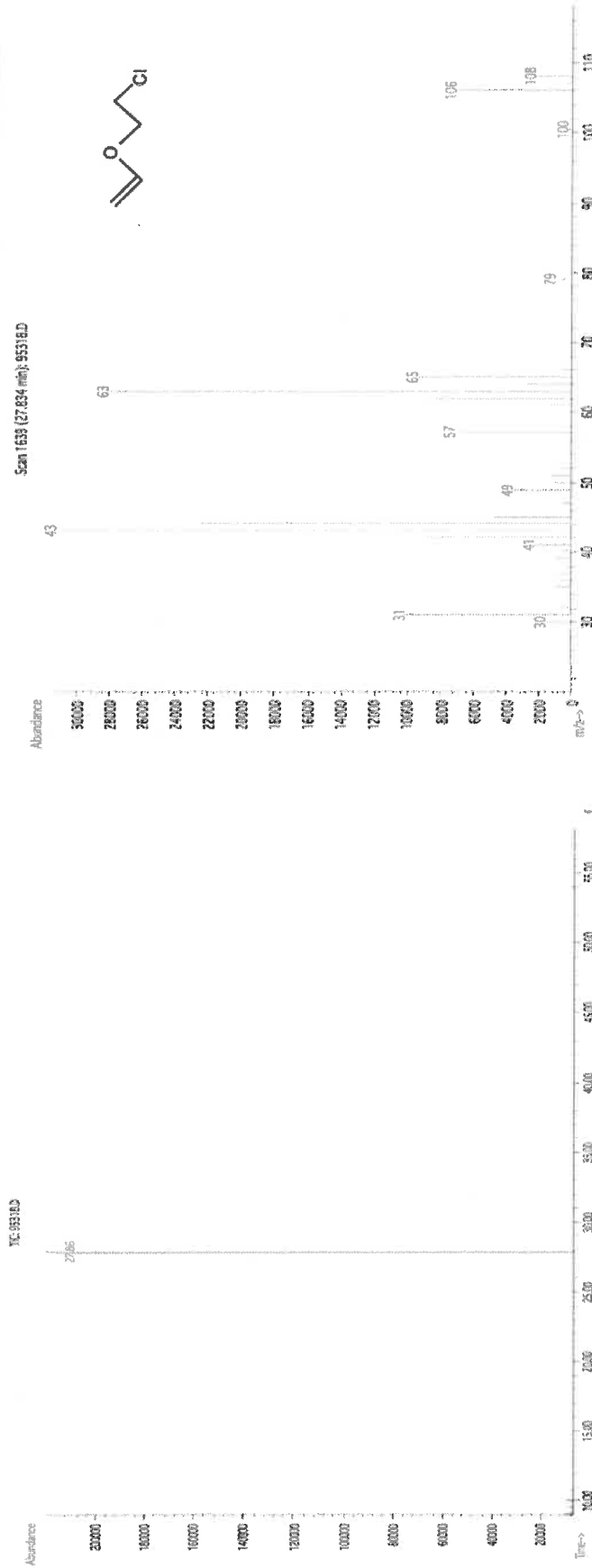
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524	DATE
Reviewed By:	Pedro L. Rentas	120524	DATE

Expanded
Uncertainty (Solvent Safety Info. On Attached pg.)
Conc(µg/mL) (+/-) (µg/mL) CAS# OSHA PEL (TWA) LD50

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	40.5	110-75-8	N/A	or-rat 250mg/kg
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9				

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 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).

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 shield
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	> 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 (H ₂ O = 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)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



See 1216124
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL):

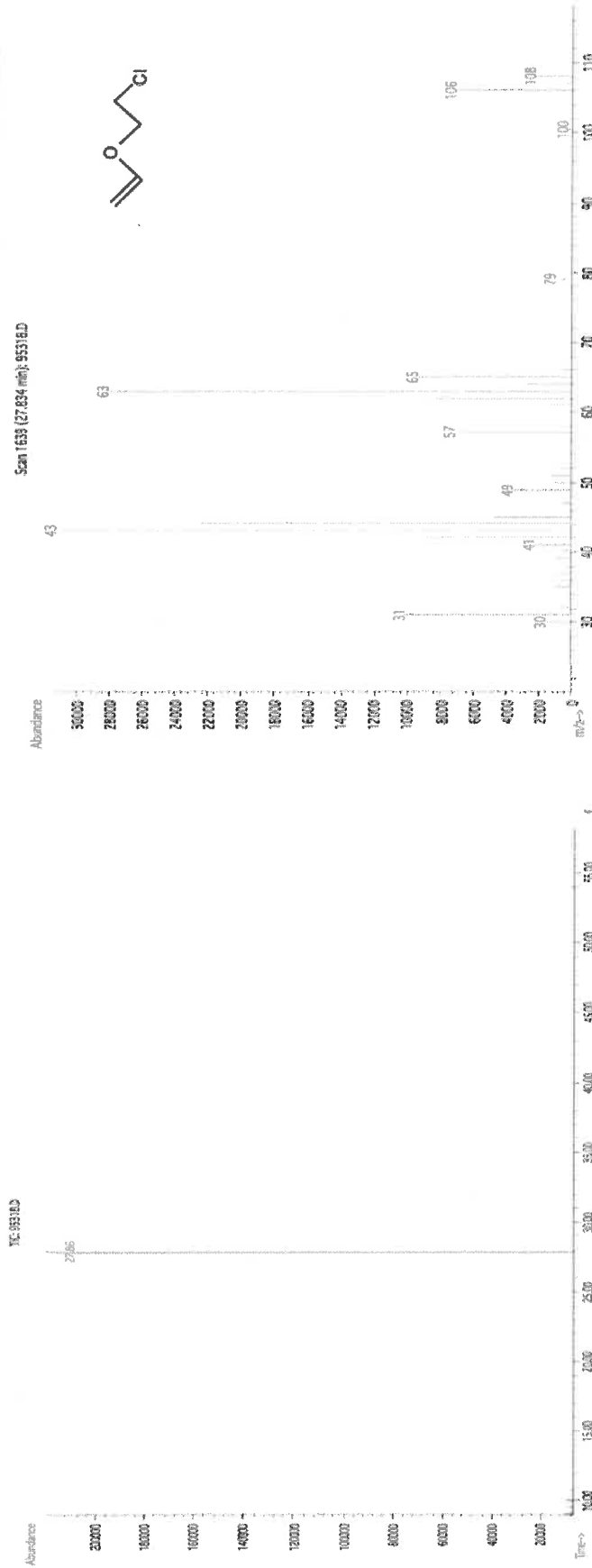
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524	DATE
Reviewed By:	Pedro L. Rentas	120524	DATE

Expanded
Uncertainty (Solvent Safety Info. On Attached pg.)
CAS# OSHA PEL (TWA) LD50

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	40.5	110-75-8	N/A	or-rat 250mg/kg
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9				

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 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).

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

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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 shield
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	> 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 (H ₂ O = 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)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



See 1216124
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

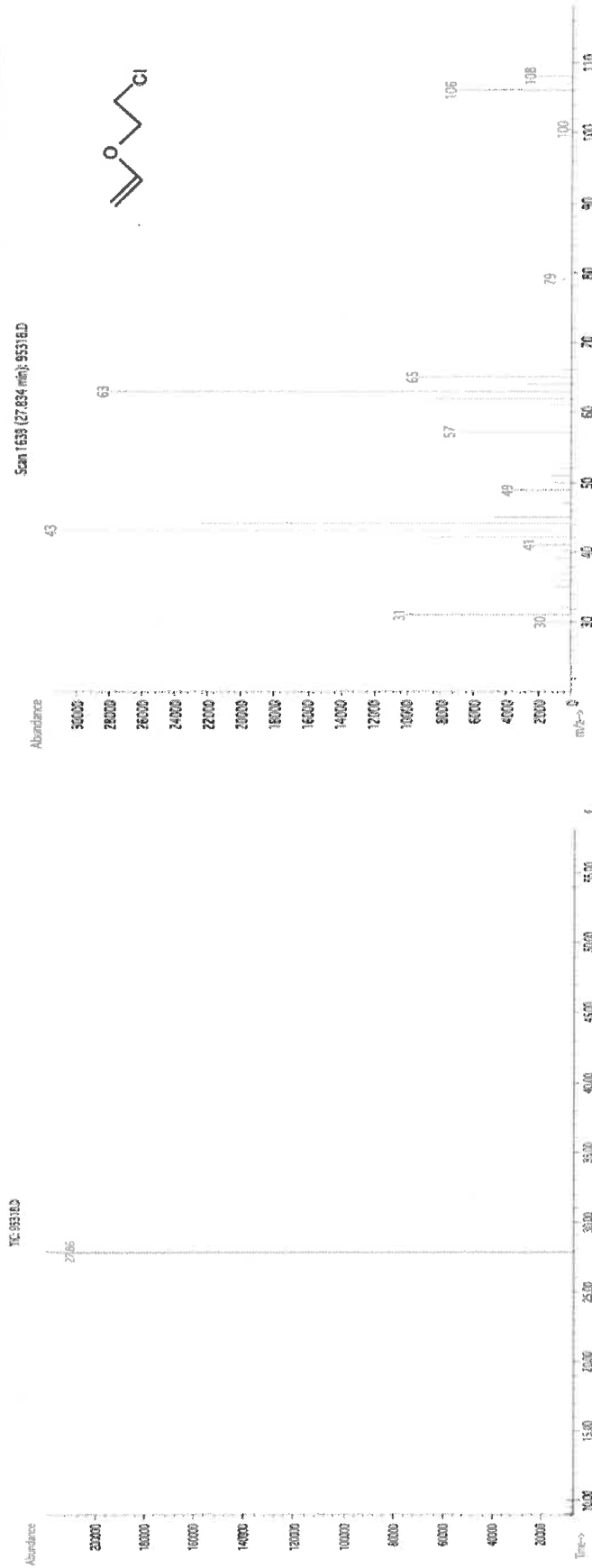
Weight(s) shown below were combined and diluted to (mL): 50.0

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	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.)
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8 N/A or-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 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).

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 shield
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 (H ₂ O = 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)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



See 1216124
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL):

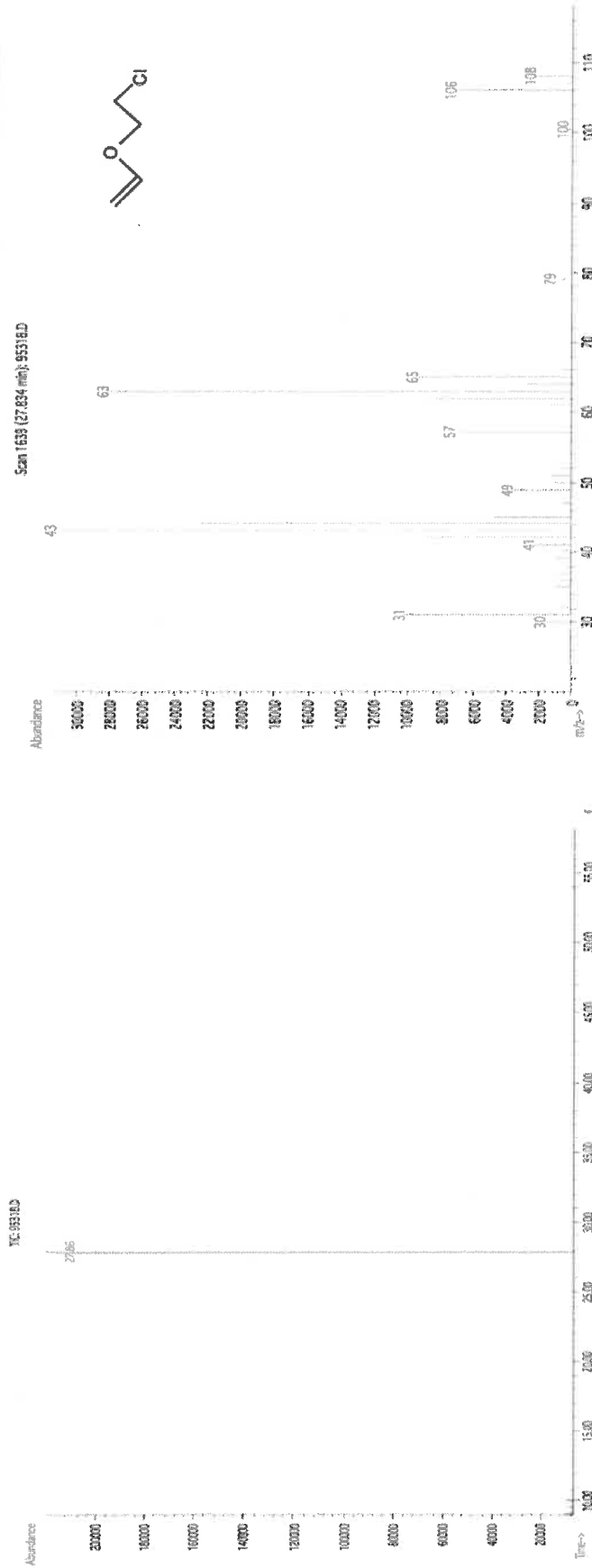
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524	DATE
Reviewed By:	Pedro L. Rentas	120524	DATE

Expanded
Uncertainty (Solvent Safety Info. On Attached pg.)
(+/-) (µg/mL) CAS# OSHA PEL (TWA) LD50

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	or-rat 250mg/kg
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	N/A

Method: GC/MSD-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 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).

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 shield
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	> 97
	CAS#: 67-56-1	

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 (H ₂ O = 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)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	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.



See 12161224



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 120524
Description: Acrolein
Expiration Date: 01/05/25
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water
Lot# 072324Q
Weight(s) shown below were combined and diluted to (mL): 20.0

SE-05 Balance Uncertainty
0.002 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524	DATE
Reviewed By:	Pedro L. Rentes	120524	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL) (+/-) (µg/mL)	Expanded Uncertainty (Solute Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50
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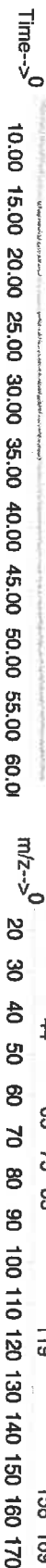
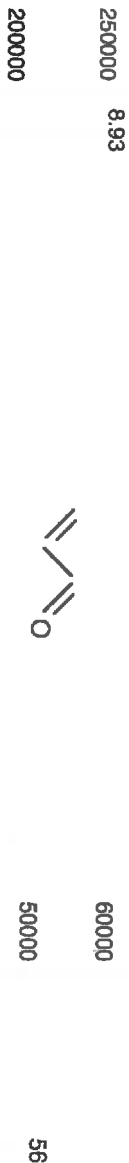
Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode), Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C, Analyst: Pedro Rentes, NOTE: Due 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.

Abundance

TIC: [BSB2]79005.D

Abundance

Scan 232 (8.927 min): [BSB2]79005.D



- 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 Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossetto 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)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#: 7732-18-5	% (optional)
Water		> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.
		Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H ₂ O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible		NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



See 12161224



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 120524
Description: Acrolein

Solvent(s): Water
Lot# 072324Q

Expiration Date: 010525
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

514650-54

Weight(s) shown below were combined and diluted to (mL):

SE-05 Balance Uncertainty
0.002 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524	DATE
Reviewed By:	Pedro L. Renteria	120524	DATE

SDS Information

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)	CAS#	OSHA PEL (TWA)	LD50
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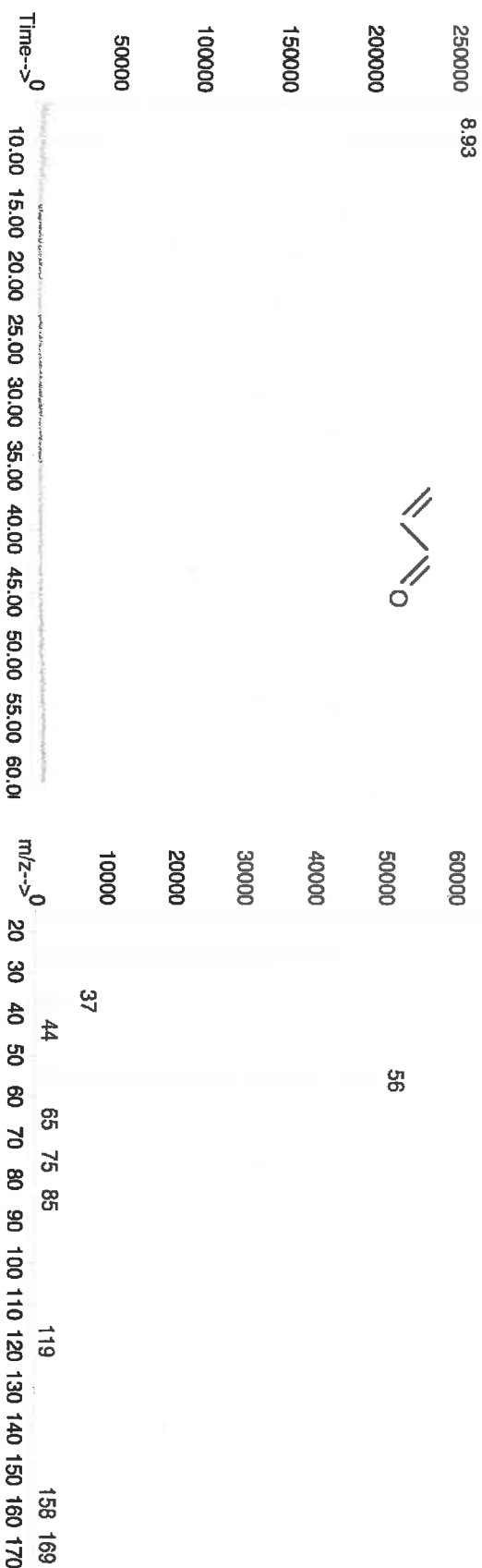
1. Acrolein 5 103755R02H 5000 97 0.5 0.10307 0.10320 5006.1 51.8 107-02-8 0.1 ppm 0.1 rat 48mg/kg

Method: GC/MSD-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 Renteria, 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.

TIC: [BSB2]79005.D

Abundance

Scan 232 (8.927 min): [BSB2]79005.D



- 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).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossetto 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)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#: 7732-18-5	% (optional)
Water		> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.
		Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H ₂ O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible		NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products -	No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



See 12161224



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 120524
Description: Acrolein

Solvent(s): Water
Lot# 072324Q

Expiration Date: 010525
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

514650-54

Weight(s) shown below were combined and diluted to (mL):

SE-05 Balance Uncertainty
0.002 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524
DATE		
Reviewed By:	Pedro L. Renteria	120524
DATE		

SDS Information

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL) (+/-) (µg/mL)	Expanded Uncertainty (Solute Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50
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1. Acrolein	5	103755R02H	5000	97	0.5	0.10307	0.10320	5006.1	51.8	107-02-8	0.1 ppm	0.1 rat 48mg/kg
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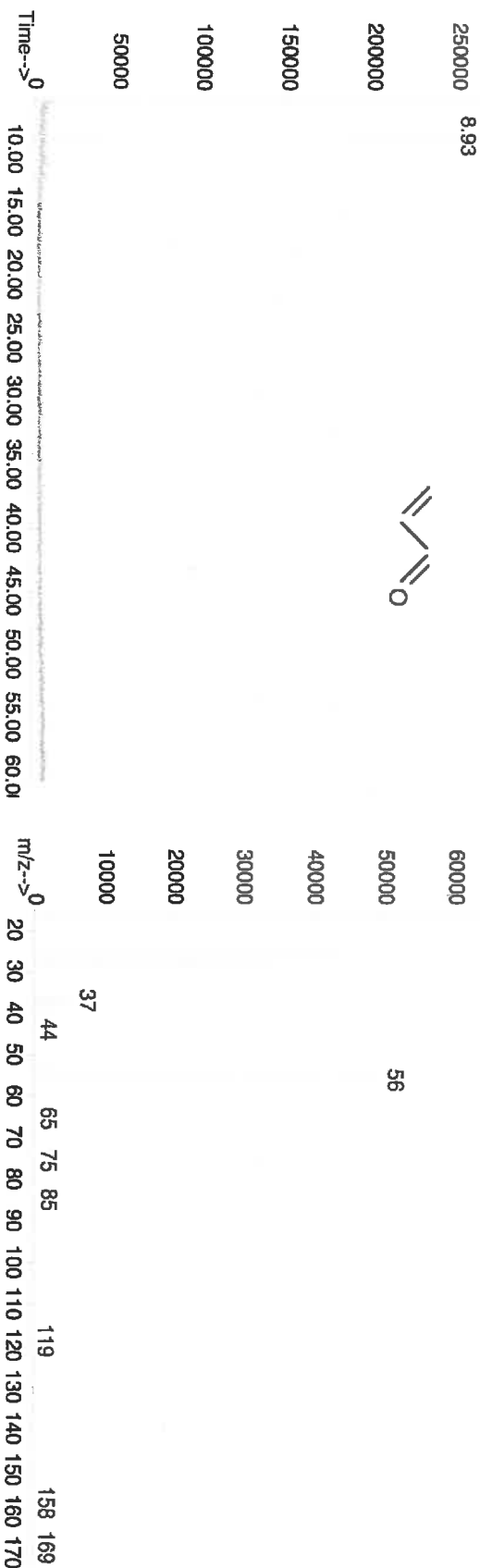
Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode), Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C, Analyst: Pedro Renteria, NOTE: 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.

TIC: [BSB2]79005.D

Abundance

Abundance

Scan 232 (8.927 min): [BSB2]79005.D



- 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).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

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Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossetto 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)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#: 7732-18-5	% (optional)
Water		> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.
		Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H ₂ O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible		NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



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.:** A0181905
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 : February 28, 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) CAS # 75-65-0 Purity 99% (Lot SHBM7694)	50,126.0 µg/mL	<table><tr><td>+/-</td><td>293.4988</td><td>µg/mL</td><td>Gravimetric</td></tr><tr><td>+/-</td><td>1,073.7654</td><td>µg/mL</td><td>Unstressed</td></tr><tr><td>+/-</td><td>1,104.9494</td><td>µg/mL</td><td>Stressed</td></tr></table>	+/-	293.4988	µg/mL	Gravimetric	+/-	1,073.7654	µg/mL	Unstressed	+/-	1,104.9494	µg/mL	Stressed
+/-	293.4988	µg/mL	Gravimetric												
+/-	1,073.7654	µg/mL	Unstressed												
+/-	1,104.9494	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)

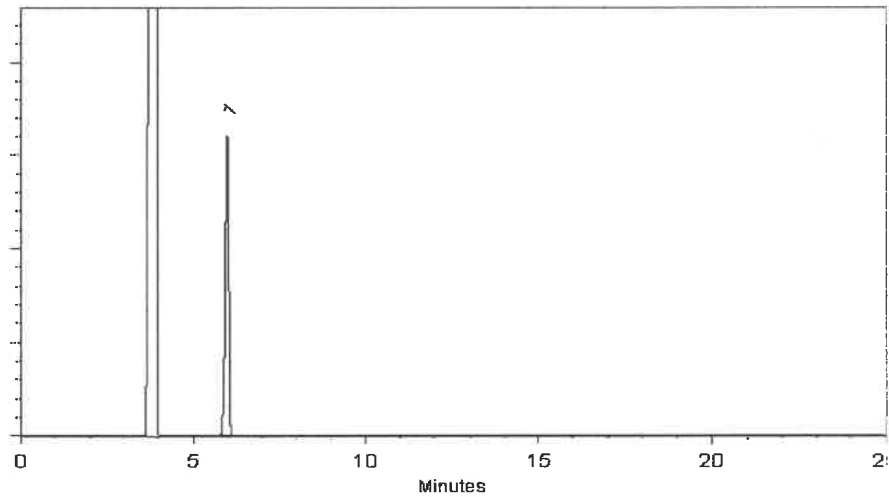
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

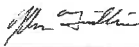
Inj. Temp:
200°C

Det. Temp:
250°C

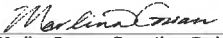
Det. Type:
FID



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.


John Friedline - Operations Technician I

Date Mixed: 16-Feb-2022 **Balance:** B442140311


Marlene Cowan - Operations Tech I

Date Passed: 21-Feb-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:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

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.



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



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:

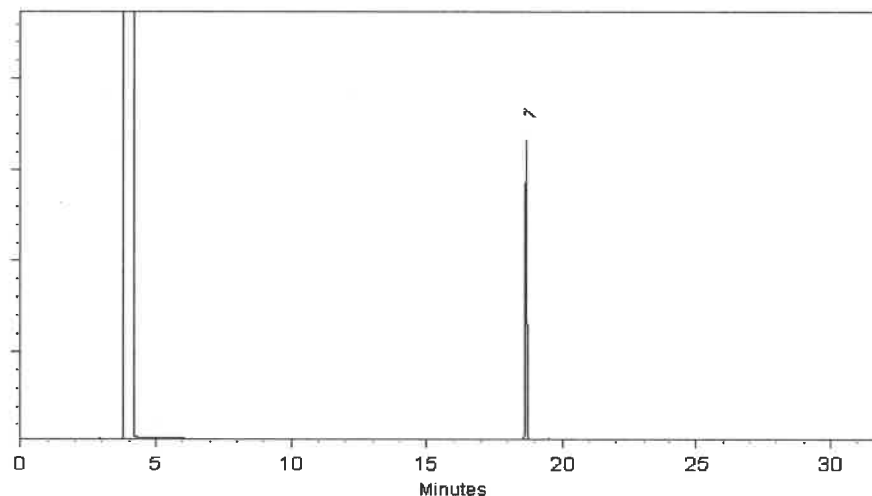
FID

Split Vent:

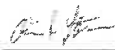
40 ml/min

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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

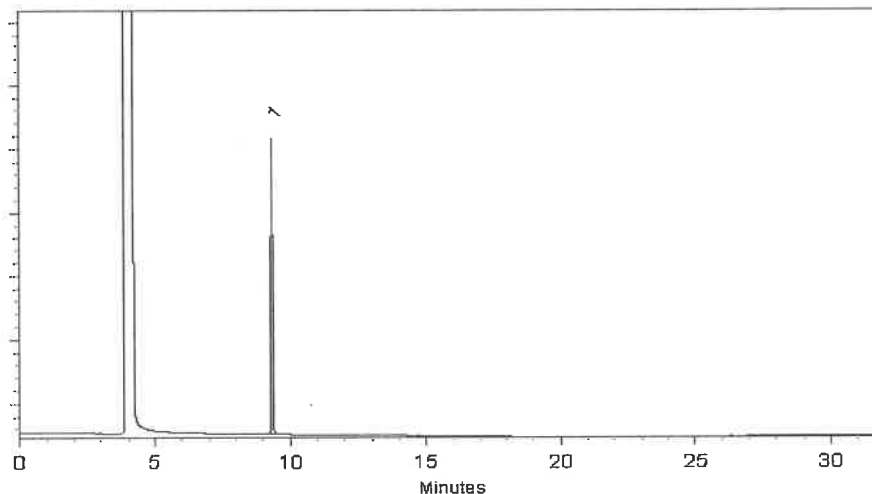
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

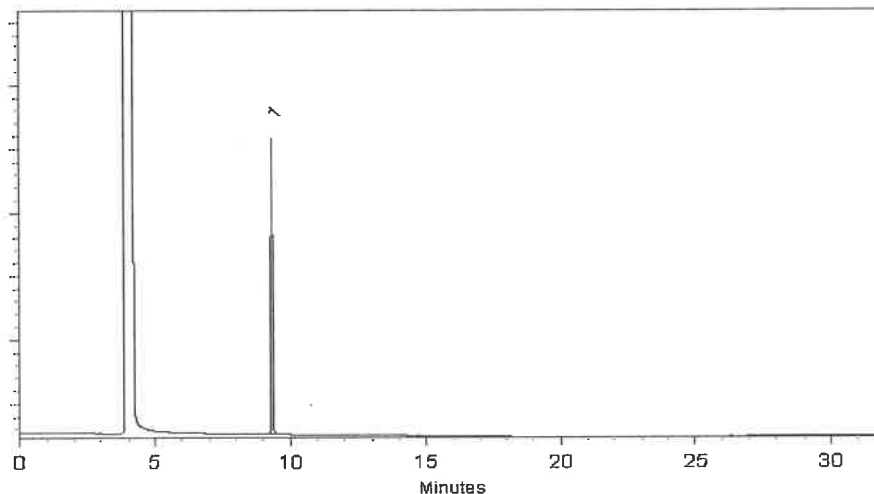
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

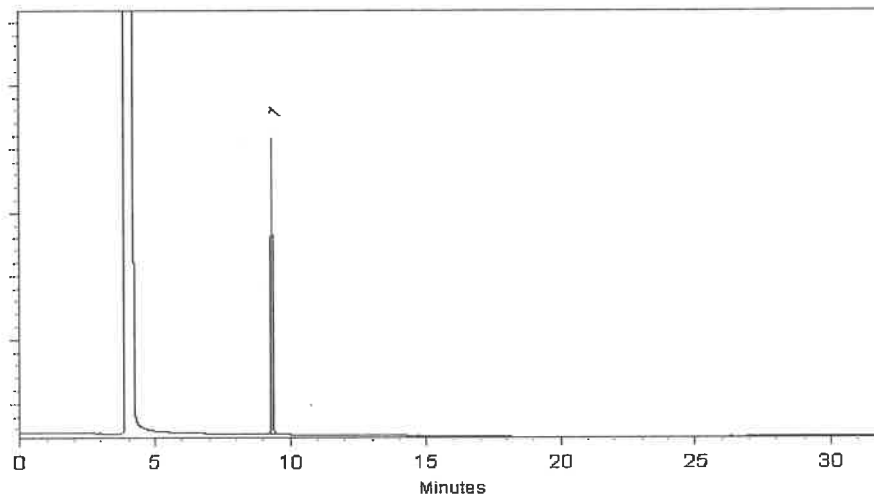
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

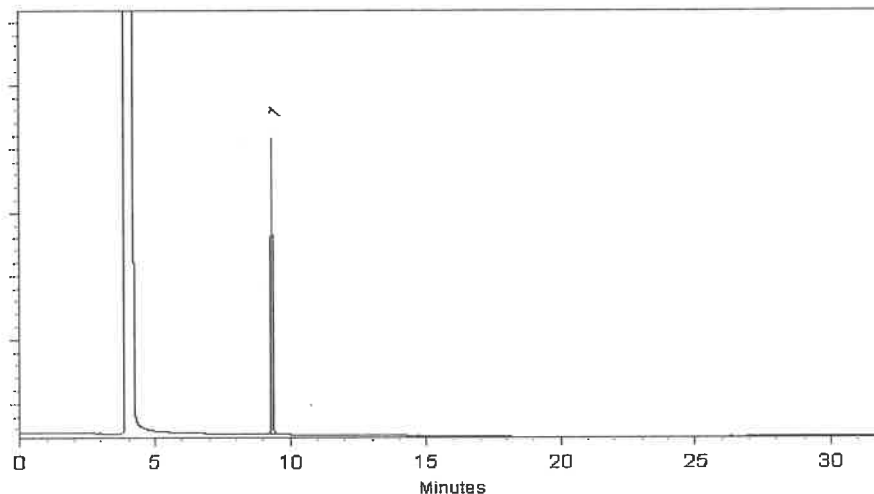
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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Manufacturing Notes:

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Handling Notes:

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0194279

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 : October 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	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.5 µg/mL	+/- 112.7231
2	Chloromethane (methyl chloride)	74-87-3	SHBK6571	99%	2,001.2 µg/mL	+/- 112.5863
3	Vinyl chloride	75-01-4	00015559	99%	2,001.4 µg/mL	+/- 112.6561
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8262
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,001.9 µg/mL	+/- 112.5897
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,000.8 µg/mL	+/- 112.6473

* 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:

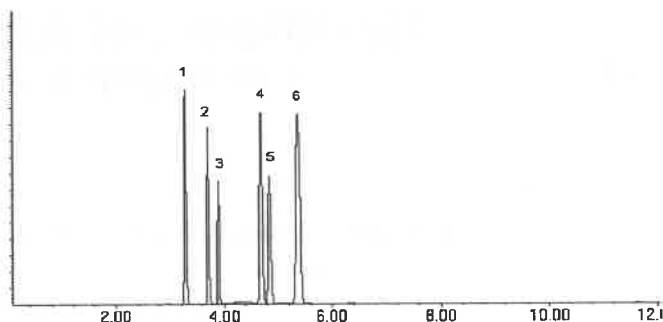
MSD

Split Vent:

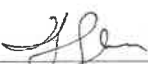
Split ratio 10:1

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: 03-Feb-2023

Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Feb-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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



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:

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Manufacturing Notes:

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Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** 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:

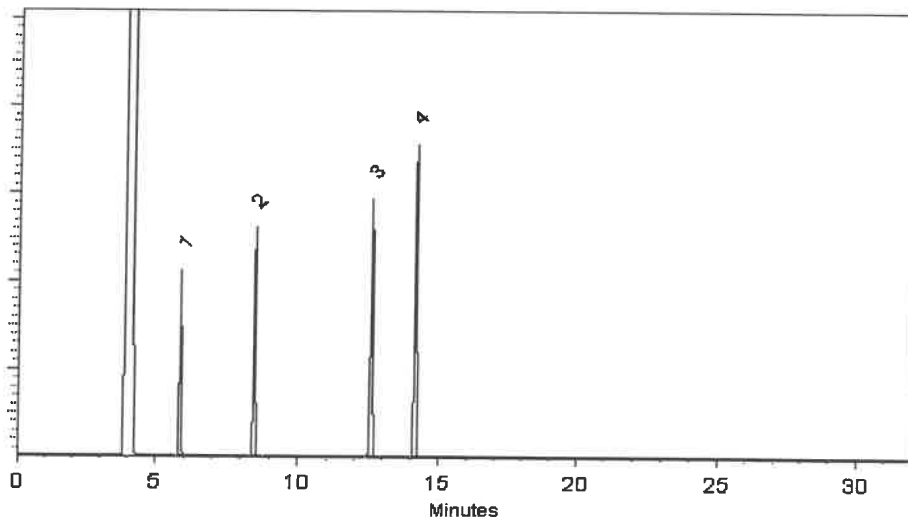
FID

Split Vent:

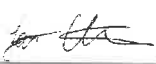
40 ml/min

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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

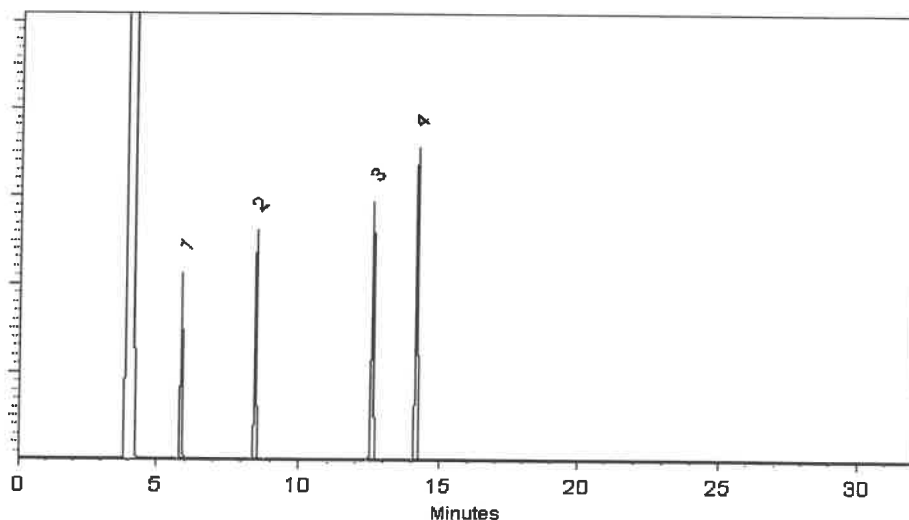
FID

Split Vent:

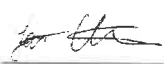
40 ml/min

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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

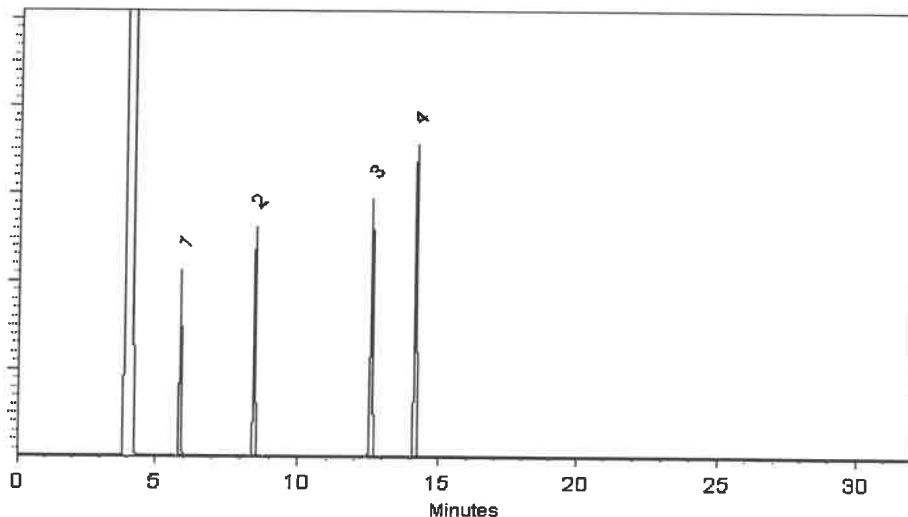
FID

Split Vent:

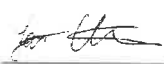
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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12
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0205179
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, 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	Vinyl acetate	108-05-4	RP231030CTH	98%	8,075.2 µg/mL	+/- 279.1159

* 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:

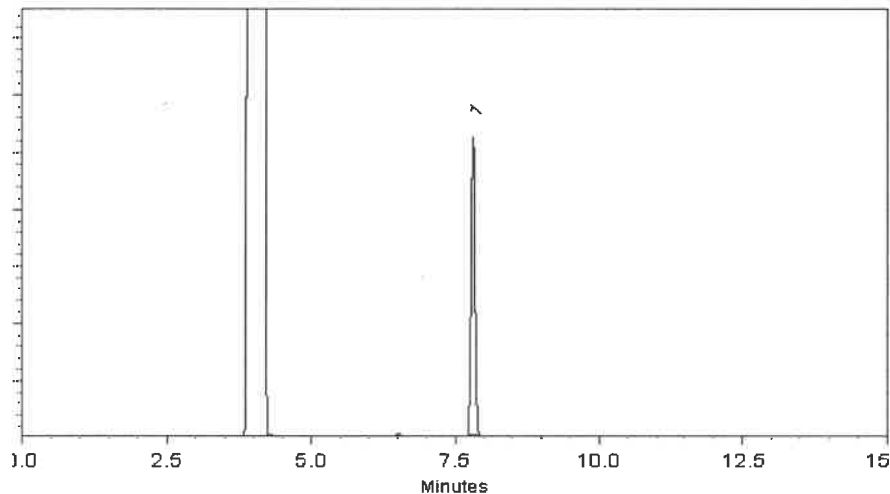
FID

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.


Daniel Wasson - Operations Tech I

Date Mixed: 06-Dec-2023 Balance Serial # 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Dec-2023

APPROVED
By: Jennifer Pollino (Signature) Aug 16, 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL Lot No.: A0205179
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, 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	Vinyl acetate	108-05-4	RP231030CTH	98%	8,075.2 µg/mL	+/- 279.1159

* 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:

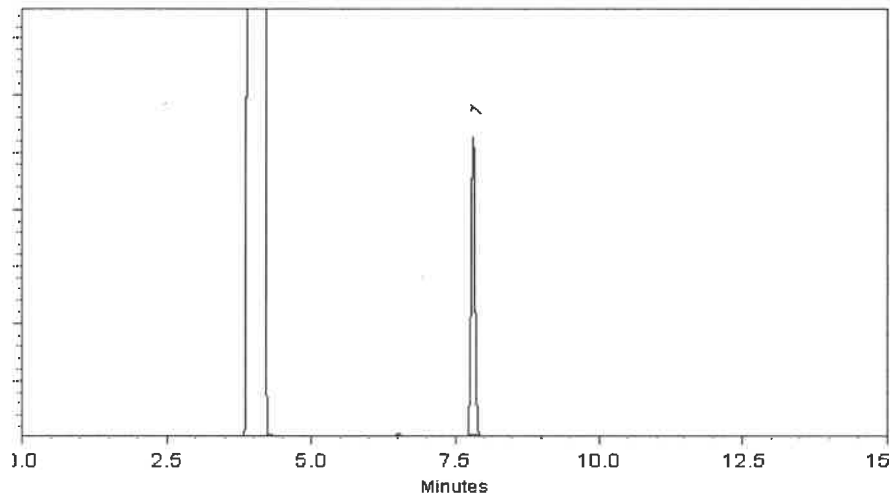
FID

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.


Daniel Wasson - Operations Tech I

Date Mixed: 06-Dec-2023 Balance Serial # 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Dec-2023

APPROVED
By: Jennifer Pollino (Date: 11-Dec-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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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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.)

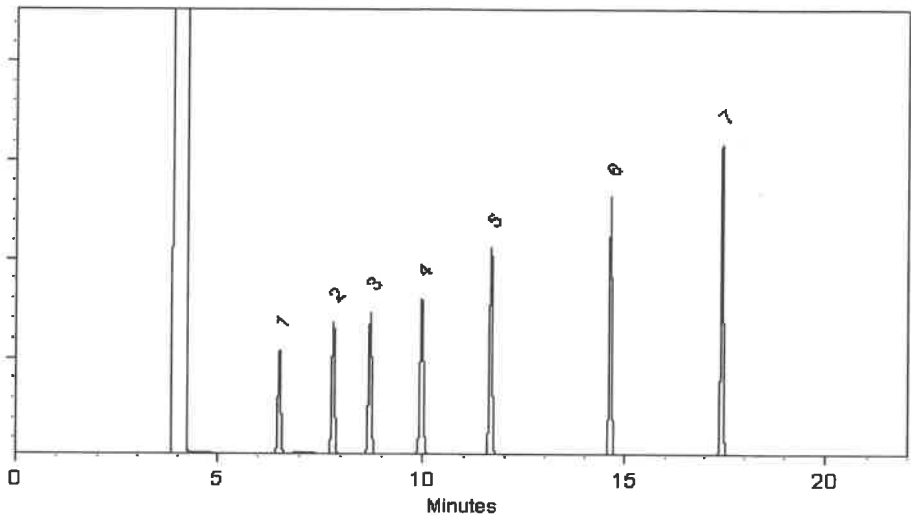
Inj. Temp:
200°C

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
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial # B707717271

Dylan Murphy
Dylan 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:

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- 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.
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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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



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.)

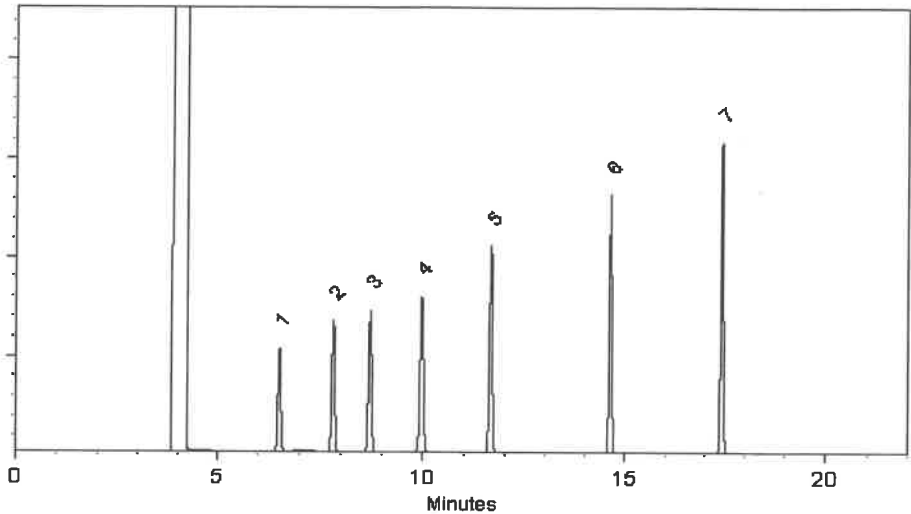
Inj. Temp:
200°C

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
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial # B707717271

Dylan Murphy
Dylan 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



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

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024

Balance: 1127510105



Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- 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:

$$U_{combined\ uncertainty} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



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 ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

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846 for Solid Waste

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Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
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Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier

Jamie Ethier
Vice President Global Quality



SHIPPING DOCUMENTS

- 1
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- 17

CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: P531415																					
				COC Number:																					
CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION																					
COMPANY: Tetra Tech		PROJECT NAME: NWIRP Bethpage		BILL TO: SEE CONTRACT PO#																					
ADDRESS: 4433 Corporation Lane Suite 300		PROJECT #: 112G08005-WE13 LOCATION: VPB-189		ADDRESS:																					
CITY: Virginia Beach STATE: VA ZIP: 23462		PROJECT MANAGER: Ernie Wu		CITY: STATE: ZIP:																					
ATTENTION: Ernie Wu		E-MAIL: ernie.wu@tetratech.com		ATTENTION: PHONE:																					
PHONE: 757-466-4901 FAX: 757-461-4148		PHONE: 757-466-4901 FAX: 757-461-4148																							
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS																					
FAX: _____ 2 & 10 _____ DAYS* HARD COPY: _____ 2 & 10 _____ DAYS* EDD _____ 2 & 10 _____ DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		☐ RESEULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">VOC(SW846-8260B)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">1,4 Dioxane (8270 SIM)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">1,4 Dioxane (522 PREC)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td></td> </tr> </table>		VOC(SW846-8260B)	1,4 Dioxane (8270 SIM)	1,4 Dioxane (522 PREC)								1	2	3	4	5	6	7	8	9	
VOC(SW846-8260B)	1,4 Dioxane (8270 SIM)	1,4 Dioxane (522 PREC)																							
1	2	3	4	5	6	7	8	9																	
				PRESERVATIVES																					
				COMMENTS																					
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION		# of Bottles	A	F										<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other							
			COMP	GRAB	DATE	TIME																			
1.	BP-VPB-190A-TB-20241213	QA		X	12/13/24	8:00	2	2										Trip Blank							
2.	BP-VPB-190A-GW-678-680	AQ		X	12/13/24	11:00	3	2	1																
3.	BP-VPB-190A-GW-698-700	AQ		X	12/13/24	13:20	3	3										Collected extra vials due to high particulate matter							
4.	VPB190A-HYD-20241217	QA		X	12/17/24	10:00	5	2	1	2								Hydrant Sample							
5.																									
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10.																									
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY																									
RELINQUISHED BY SAMPLER		DATE/TIME		RECEIVED BY		Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.1 C MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?: _____ Comments: 48hr TAT - For VOC's see worksheet #15 of SAP 2018 for VPB program VOC list 10-DAY TAT - For 1,4 Dioxane (8270 SIM)																			
RELINQUISHED BY		DATE/TIME		RECEIVED BY																					
RELINQUISHED BY		DATE/TIME		RECEIVED FOR LAB BY																					
						Page <u>1</u> of <u>1</u>						SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight			Shipment Complete ☐ YES ☐ NO										

WHITE - CHEMTECH COPYFOR RETURN TO CLIENT
 YELLOW - CHEMTECH COPY
 PINK - SAMPLER COPY

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5314 TETR06

Order Date : 12/17/2024 3:43:00 PM

Project Mgr :

Client Name : Tetra Tech NUS, Inc.

Project Name : CTO WE13

Report Type : Level 4

Client Contact : Ernie Wu

Receive DateTime : 12/17/2024 12:00:00 AM

EDD Type : ADAPT

Invoice Name : Tetra Tech NUS, Inc.

Purchase Order :

Hard Copy Date :

Invoice Contact : Ernie Wu

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5314-01	BP-VPB-190A-TB-20241213	Water	12/13/2024	08:00	VOCMS Group1		8260-Low	40 Bus. Days	2 days
P5314-02	BP-VPB-190A-GW-678-680	Water	12/13/2024	11:00	VOCMS Group1		8260-Low	10 Bus. Days	
P5314-03	BP-VPB-190A-GW-698-700	Water	12/13/2024	13:20	VOCMS Group1		8260-Low	10 Bus. Days	
P5314-04	VPB190A-HYF-20241217	Water	12/17/2024	10:00	VOCMS Group1		8260-Low	40 Bus. Days	
	VPB190A-HYD-20241217				VOCMS Group1		8260-Low	40 Bus. Days	

Relinquished By : cl

Date / Time : 12-18-24 10:45

Received By : [Signature]

Date / Time : 12-18-24 10:45

Storage Area : VOA Refridgerator Room

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044219.D
 Acq On : 11 Dec 2024 10:41
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Quant Time: Dec 12 04:12:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:11:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.543	168	141947	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	253574	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	213862	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	88334	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.964	65	3407	1.369	ug/l	0.01
Spiked Amount	50.000	Range	74 - 125	Recovery	=	2.740%#
35) Dibromofluoromethane	5.385	113	2117	1.205	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	2.420%#
50) Toluene-d8	8.653	98	6848	1.156	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	2.320%#
62) 4-Bromofluorobenzene	11.091	95	2398	1.158	ug/l	0.01
Spiked Amount	50.000	Range	77 - 121	Recovery	=	2.320%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	2491	1.135	ug/l	98
3) Chloromethane	1.300	50	2109	1.005	ug/l	98
4) Vinyl Chloride	1.373	62	2285	1.045	ug/l #	85
5) Bromomethane	1.593	94	1882	1.213	ug/l	94
6) Chloroethane	1.672	64	1176	0.864	ug/l	92
7) Trichlorofluoromethane	1.867	101	4491	1.049	ug/l	96
8) Diethyl Ether	2.129	74	1651	1.130	ug/l	78
9) 1,1,2-Trichlorotrifluo...	2.318	101	1796	1.037	ug/l	95
10) Methyl Iodide	2.440	142	2045	0.896	ug/l	99
11) Tert butyl alcohol	2.989	59	972	2.776	ug/l #	71
12) 1,1-Dichloroethene	2.306	96	1454	0.914	ug/l	90
13) Acrolein	2.233	56	2449	4.823	ug/l	84
14) Allyl chloride	2.660	41	2551	0.963	ug/l #	91
15) Acrylonitrile	3.068	53	4528	4.660	ug/l	98
16) Acetone	2.385	43	5096	5.022	ug/l	97
17) Carbon Disulfide	2.501	76	2387	0.789	ug/l	99
18) Methyl Acetate	2.702	43	2739	1.047	ug/l #	86
19) Methyl tert-butyl Ether	3.117	73	5832	0.939	ug/l #	91
20) Methylene Chloride	2.776	84	1928	1.012	ug/l #	74
21) trans-1,2-Dichloroethene	3.080	96	1703	1.007	ug/l #	79
22) Diisopropyl ether	3.763	45	5792	0.971	ug/l #	83
23) Vinyl Acetate	3.733	43	17578	3.623	ug/l	100
24) 1,1-Dichloroethane	3.605	63	3040	0.914	ug/l	96
25) 2-Butanone	4.586	43	6380	4.423	ug/l	96
26) 2,2-Dichloropropane	4.464	77	2220	0.821	ug/l	85
27) cis-1,2-Dichloroethene	4.489	96	2296	1.069	ug/l	81
28) Bromochloromethane	4.909	49	1641	1.006	ug/l #	72
29) Tetrahydrofuran	5.025	42	4158	4.491	ug/l #	84
30) Chloroform	5.086	83	3943	1.055	ug/l	91
31) Cyclohexane	5.470	56	2594	0.966	ug/l #	80
32) 1,1,1-Trichloroethane	5.379	97	2818	0.908	ug/l #	48
36) 1,1-Dichloropropene	5.684	75	1178	0.519	ug/l	92
37) Ethyl Acetate	4.727	43	2718	0.969	ug/l #	71
38) Carbon Tetrachloride	5.678	117	2454	1.004	ug/l #	73
39) Methylcyclohexane	7.366	83	2606	0.960	ug/l	93
40) Benzene	6.037	78	6864	0.996	ug/l	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044219.D
 Acq On : 11 Dec 2024 10:41
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Quant Time: Dec 12 04:12:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:11:59 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	390	0.262	ug/l #	1
42) 1,2-Dichloroethane	6.092	62	2810	0.990	ug/l	93
43) Isopropyl Acetate	6.354	43	3734	0.851	ug/l	98
44) Trichloroethene	7.122	130	1806	1.051	ug/l	71
45) 1,2-Dichloropropane	7.433	63	1865	1.059	ug/l #	74
46) Dibromomethane	7.592	93	1251	0.916	ug/l	97
47) Bromodichloromethane	7.830	83	1926	0.816	ug/l #	74
48) Methyl methacrylate	7.720	41	2168	1.018	ug/l #	77
49) 1,4-Dioxane	7.702	88	289	7.943	ug/l #	71
51) 4-Methyl-2-Pentanone	8.579	43	12824	4.547	ug/l	95
52) Toluene	8.720	92	4606	1.064	ug/l	92
53) t-1,3-Dichloropropene	8.988	75	1716	1.694	ug/l #	78
54) cis-1,3-Dichloropropene	8.366	75	2048	0.797	ug/l #	75
55) 1,1,2-Trichloroethane	9.159	97	1710	0.994	ug/l #	83
56) Ethyl methacrylate	9.128	69	2490	0.917	ug/l #	85
57) 1,3-Dichloropropane	9.317	76	2929	0.979	ug/l	94
58) 2-Chloroethyl Vinyl ether	8.244	63	5621	4.105	ug/l	96
59) 2-Hexanone	9.439	43	8199	4.017	ug/l	98
60) Dibromochloromethane	9.524	129	1289	1.953	ug/l	97
61) 1,2-Dibromoethane	9.610	107	1535	0.877	ug/l	95
64) Tetrachloroethene	9.274	164	1536	1.082	ug/l	86
65) Chlorobenzene	10.079	112	4835	1.055	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.158	131	1288	0.875	ug/l #	63
67) Ethyl Benzene	10.195	91	7924	1.001	ug/l #	88
68) m/p-Xylenes	10.305	106	5583	1.922	ug/l	98
69) o-Xylene	10.640	106	2933	0.998	ug/l	96
70) Styrene	10.658	104	4306	0.914	ug/l	94
71) Bromoform	10.805	173	584	1.847	ug/l #	72
73) Isopropylbenzene	10.963	105	6474	0.957	ug/l	100
74) N-amyl acetate	10.847	43	2536	0.811	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.219	83	2491	1.061	ug/l	95
76) 1,2,3-Trichloropropane	11.244	75	2810	1.402	ug/l	81
77) Bromobenzene	11.201	156	1783	1.087	ug/l	91
78) n-propylbenzene	11.305	91	6606	0.884	ug/l	86
79) 2-Chlorotoluene	11.366	91	5194	1.075	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	5417	0.966	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.030	75	402	6.098	ug/l	86
82) 4-Chlorotoluene	11.457	91	5236	0.978	ug/l	98
83) tert-Butylbenzene	11.713	119	5601	1.011	ug/l	91
84) 1,2,4-Trimethylbenzene	11.756	105	4769	0.866	ug/l	95
85) sec-Butylbenzene	11.890	105	6500	0.966	ug/l	99
86) p-Isopropyltoluene	12.012	119	5210	0.930	ug/l	93
87) 1,3-Dichlorobenzene	11.975	146	2684	0.937	ug/l	94
88) 1,4-Dichlorobenzene	11.975	146	2684	0.912	ug/l	94
89) n-Butylbenzene	12.335	91	3973	0.844	ug/l	94
90) Hexachloroethane	12.536	117	632	0.773	ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	3082	1.036	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	392	0.860	ug/l	70
93) 1,2,4-Trichlorobenzene	13.591	180	1361	0.835	ug/l	92
94) Hexachlorobutadiene	13.725	225	689	1.051	ug/l	96
95) Naphthalene	13.780	128	5167	0.812	ug/l #	94
96) 1,2,3-Trichlorobenzene	13.963	180	1509	0.873	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044219.D
Acq On : 11 Dec 2024 10:41
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

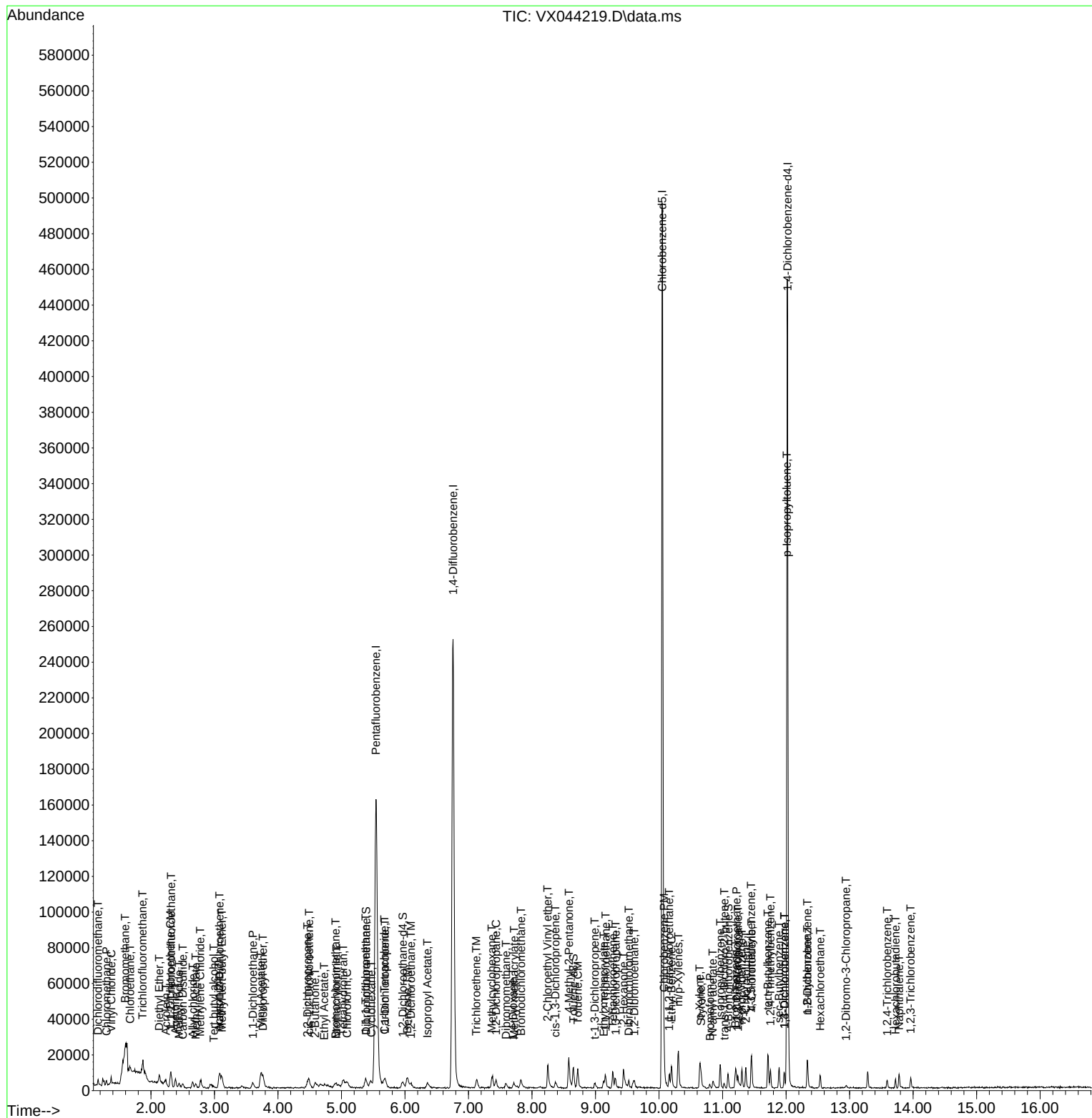
Quant Time: Dec 12 04:12:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

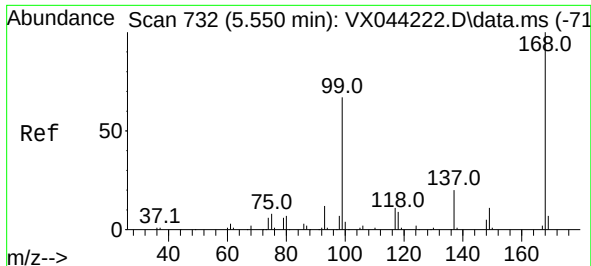
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Dec 12 04:12:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
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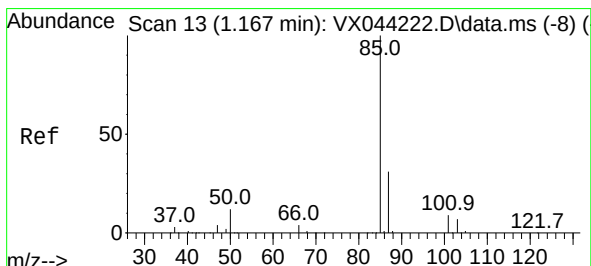
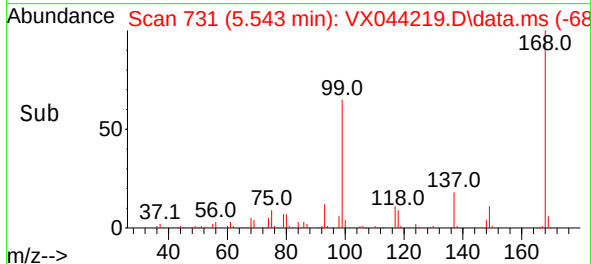
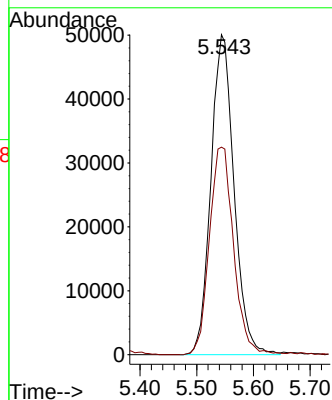
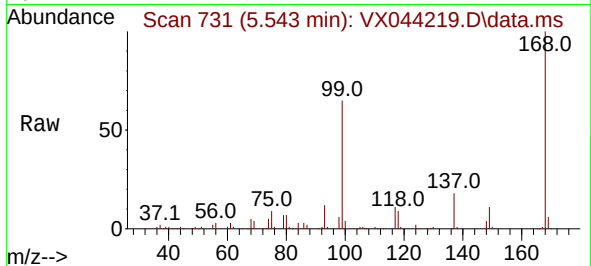




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 71
Delta R.T. -0.007 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

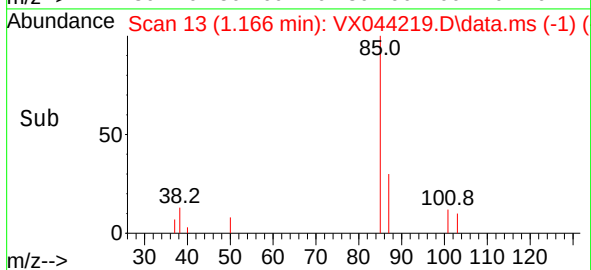
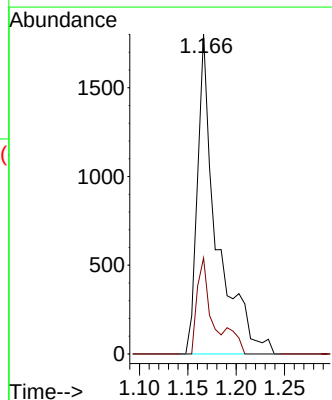
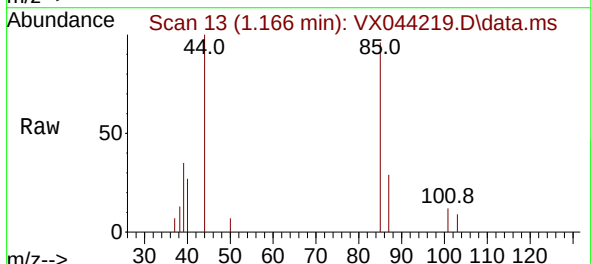
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

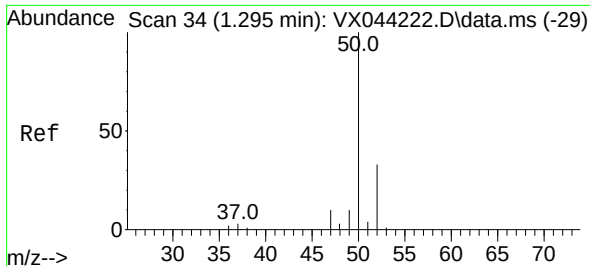
Tgt Ion:168 Resp: 141947
Ion Ratio Lower Upper
168 100
99 64.9 53.4 80.0



#2
Dichlorodifluoromethane
Concen: 1.135 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 85 Resp: 2491
Ion Ratio Lower Upper
85 100
87 30.0 15.4 46.4

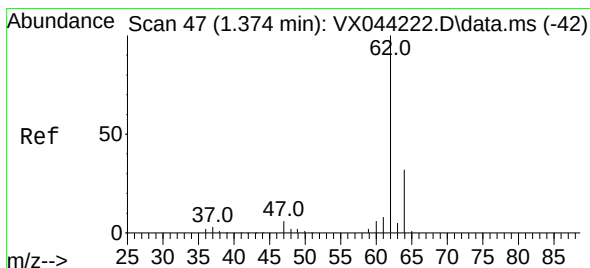
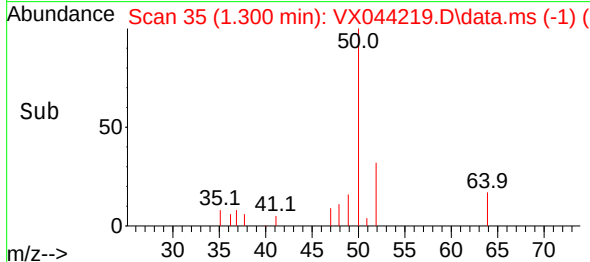
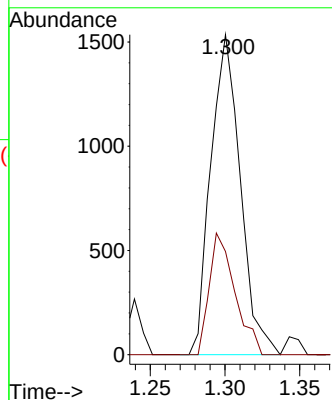
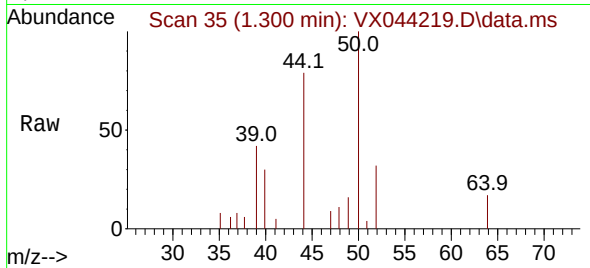




#3
Chloromethane
Concen: 1.005 ug/l
RT: 1.300 min Scan# 34
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

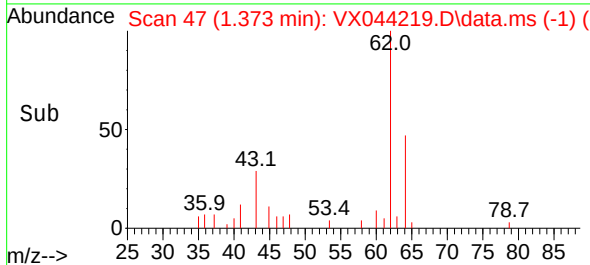
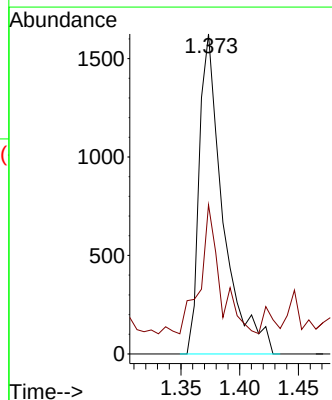
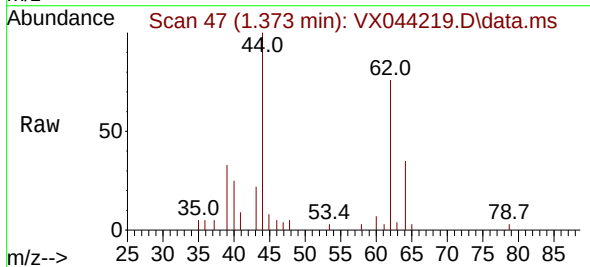
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

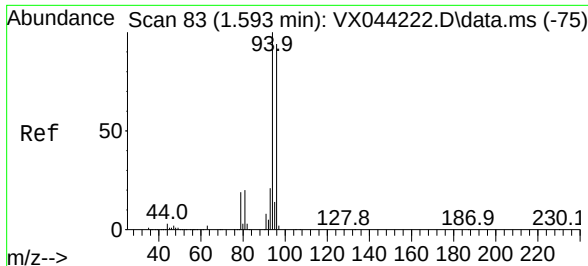
Tgt Ion: 50 Resp: 2109
Ion Ratio Lower Upper
50 100
52 32.2 26.5 39.7



#4
Vinyl Chloride
Concen: 1.045 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 62 Resp: 2285
Ion Ratio Lower Upper
62 100
64 40.3 25.7 38.5#

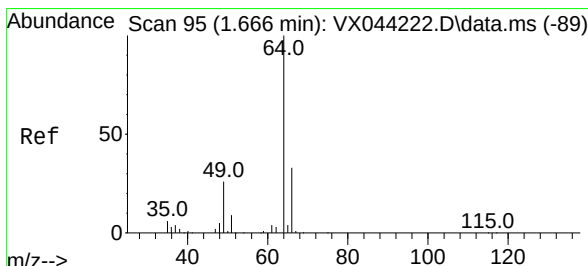
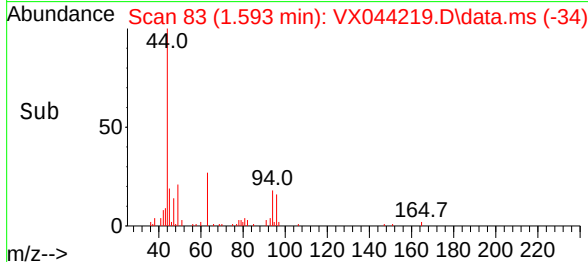
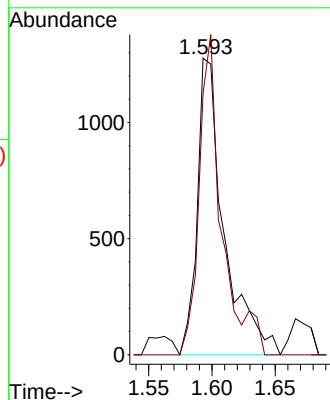
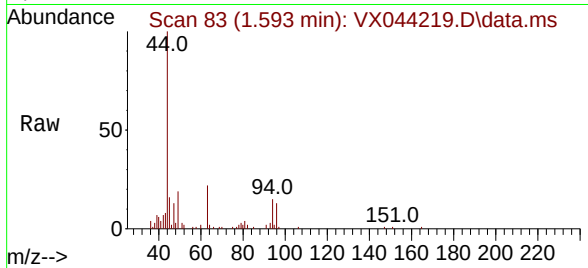




#5
Bromomethane
Concen: 1.213 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

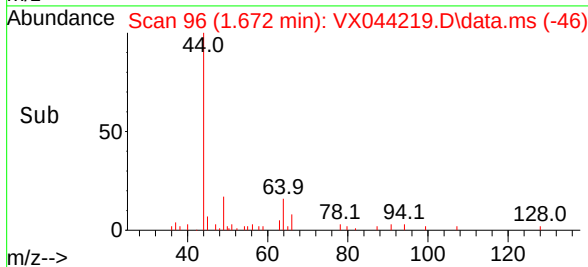
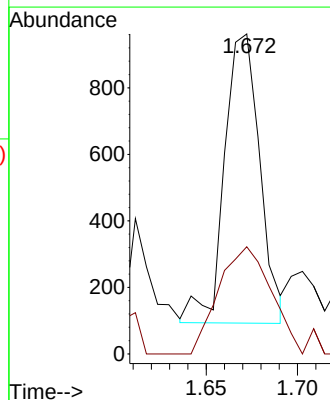
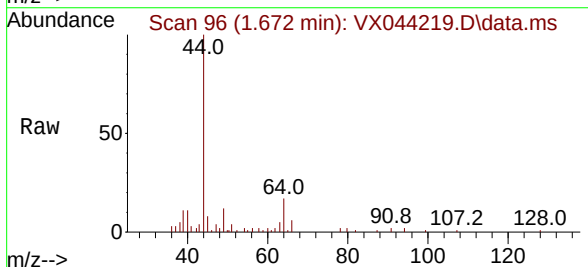
Instrument :
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ClientSampleId :
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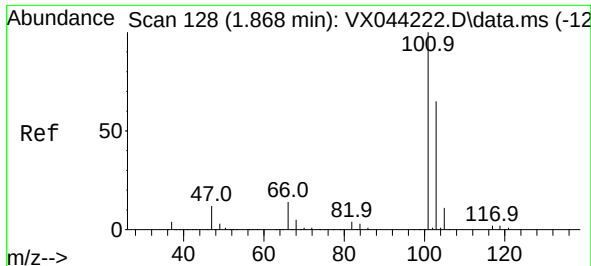
Tgt Ion: 94 Resp: 1882
Ion Ratio Lower Upper
94 100
96 88.2 74.9 112.3



#6
Chloroethane
Concen: 0.864 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 64 Resp: 1176
Ion Ratio Lower Upper
64 100
66 37.6 26.6 39.8

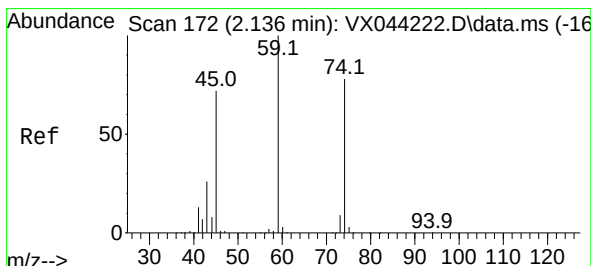
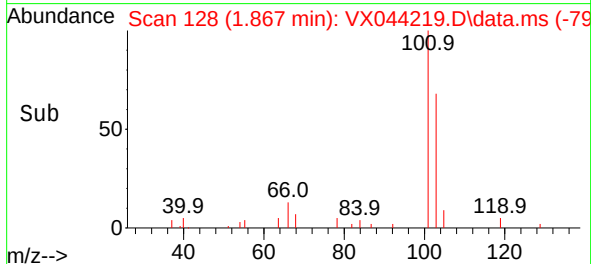
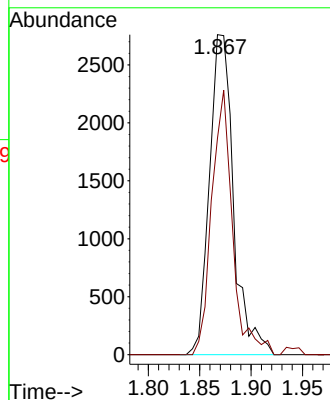
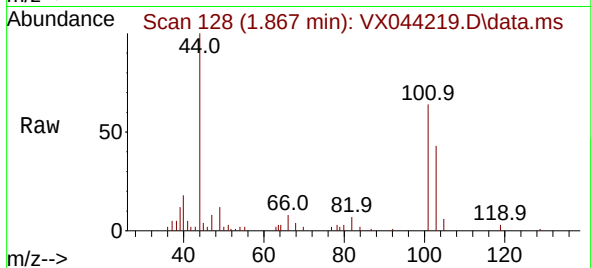




#7
Trichlorofluoromethane
Concen: 1.049 ug/l
RT: 1.867 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

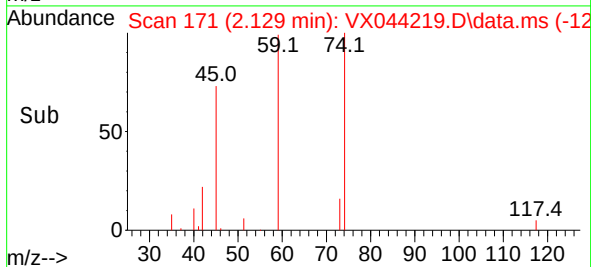
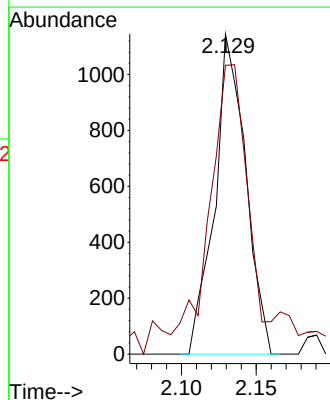
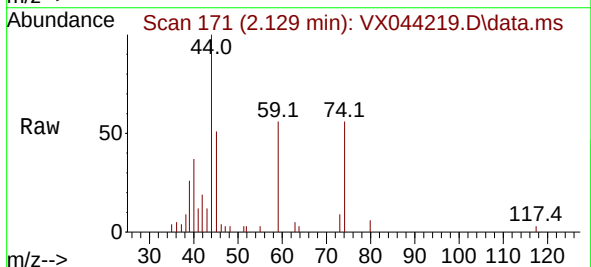
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

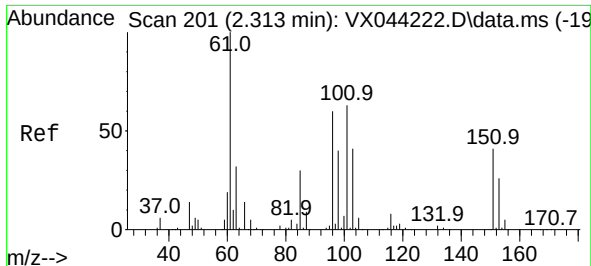
Tgt Ion:101 Resp: 4491
Ion Ratio Lower Upper
101 100
103 67.7 51.8 77.8



#8
Diethyl Ether
Concen: 1.130 ug/l
RT: 2.129 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 74 Resp: 1651
Ion Ratio Lower Upper
74 100
45 118.0 48.4 145.0

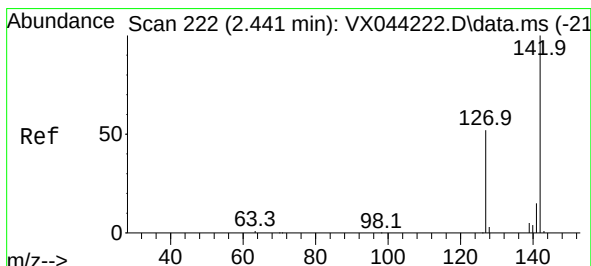
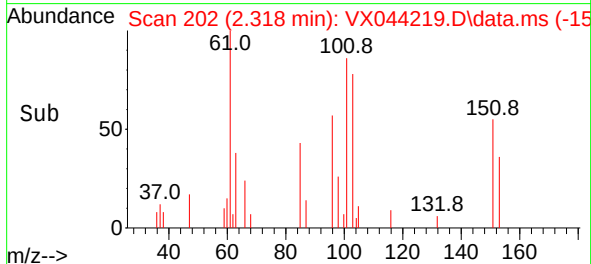
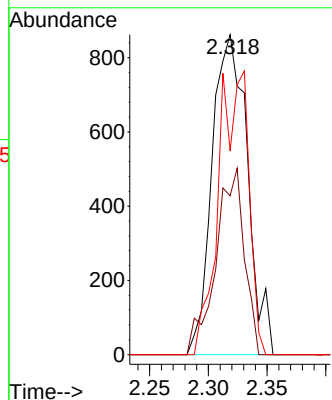
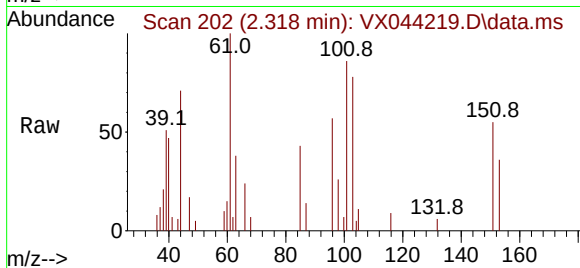




#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.037 ug/l
RT: 2.318 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

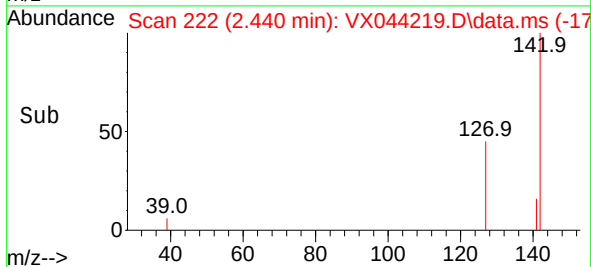
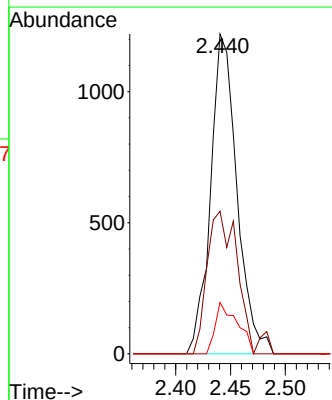
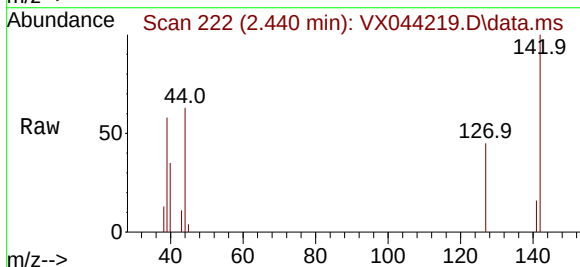
Instrument :
MSVOA_X
ClientSampleId :
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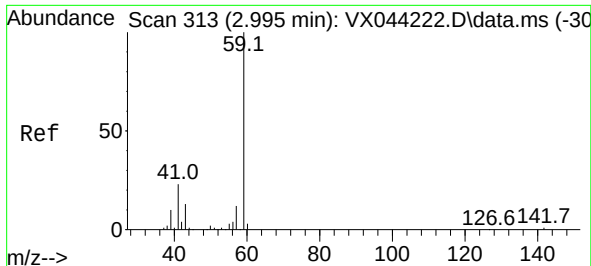
Tgt Ion:101 Resp: 1796
Ion Ratio Lower Upper
101 100
85 47.3 38.5 57.7
151 76.1 55.8 83.6



#10
Methyl Iodide
Concen: 0.896 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:142 Resp: 2045
Ion Ratio Lower Upper
142 100
127 52.6 41.8 62.8
141 13.4 11.5 17.3





#11

Tert butyl alcohol

Concen: 2.776 ug/l

RT: 2.989 min Scan# 313

Delta R.T. -0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

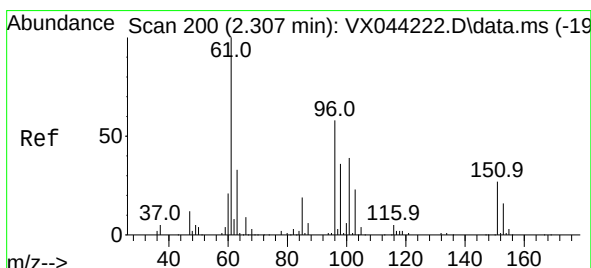
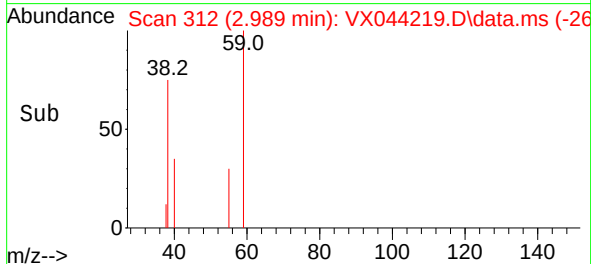
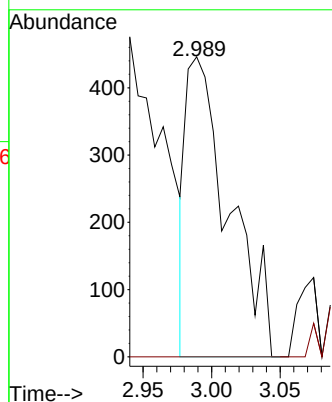
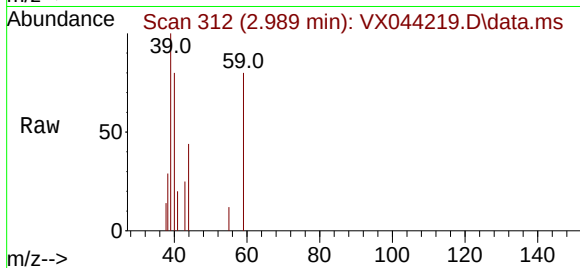
VSTDIC001

Tgt Ion: 59 Resp: 972

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



#12

1,1-Dichloroethene

Concen: 0.914 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

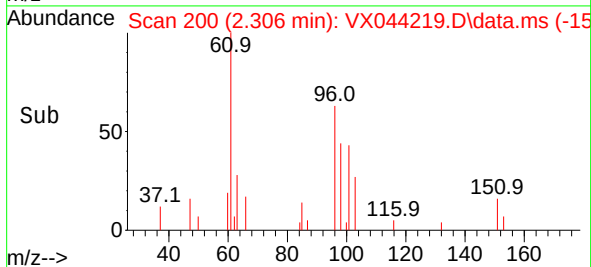
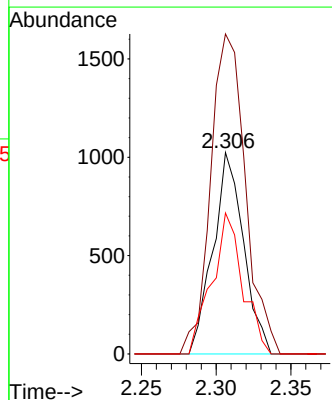
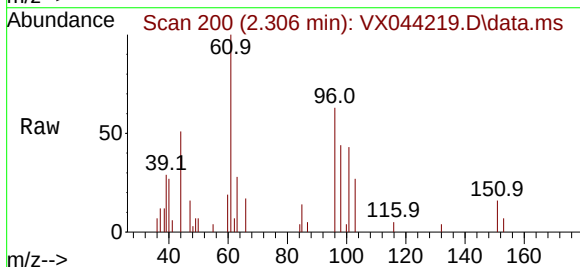
Tgt Ion: 96 Resp: 1454

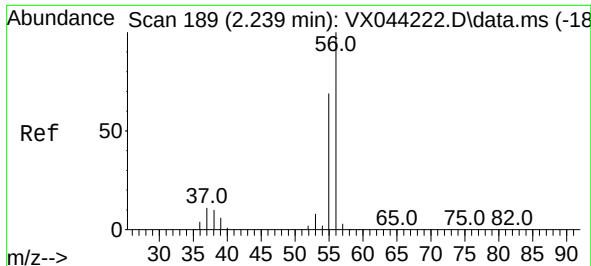
Ion Ratio Lower Upper

96 100

61 158.9 138.0 207.0

98 70.0 50.0 75.0





#13

Acrolein

Concen: 4.823 ug/l

RT: 2.233 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

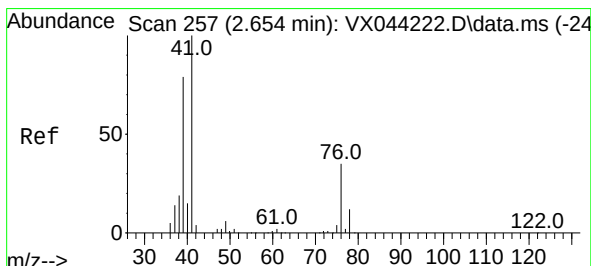
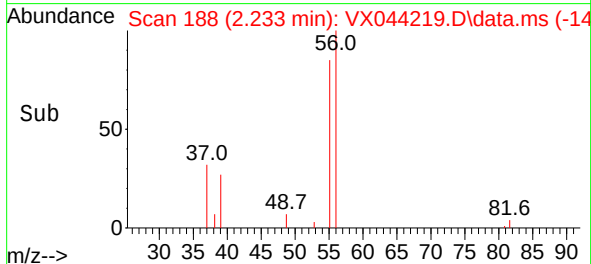
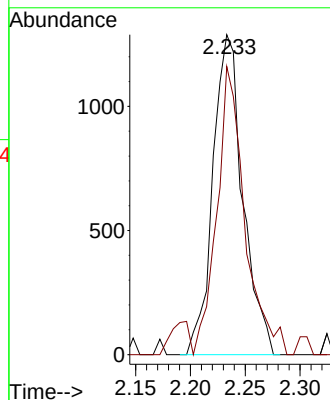
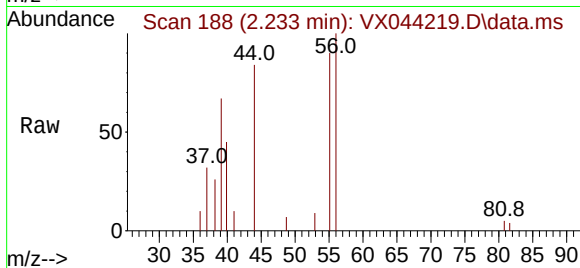
VSTDICC001

Tgt Ion: 56 Resp: 2449

Ion Ratio Lower Upper

56 100

55 84.0 56.6 84.8



#14

Allyl chloride

Concen: 0.963 ug/l

RT: 2.660 min Scan# 258

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

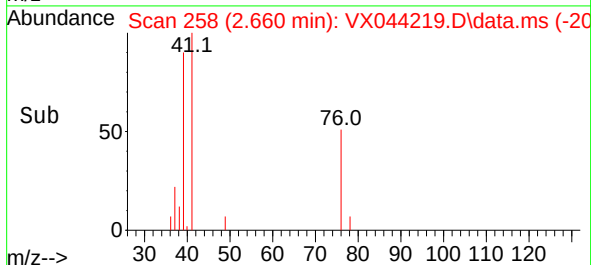
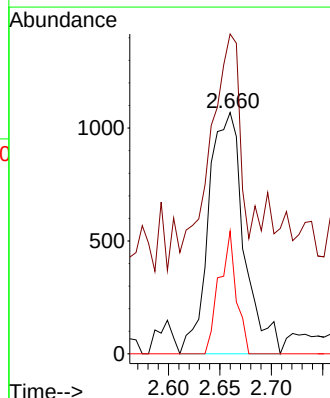
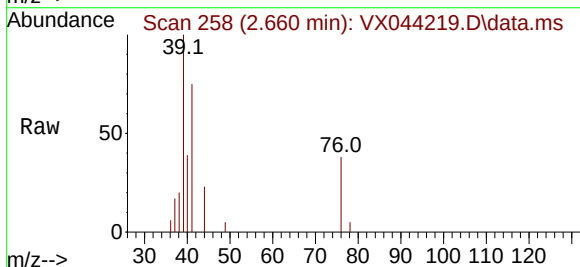
Tgt Ion: 41 Resp: 2551

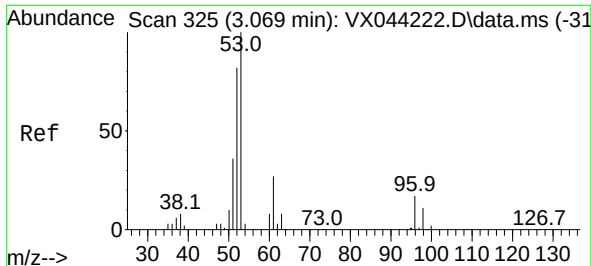
Ion Ratio Lower Upper

41 100

39 72.6 61.9 92.9

76 24.6 27.4 41.2#

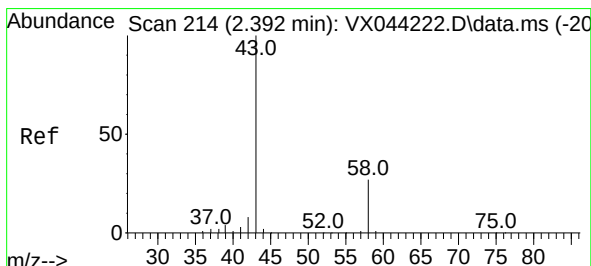
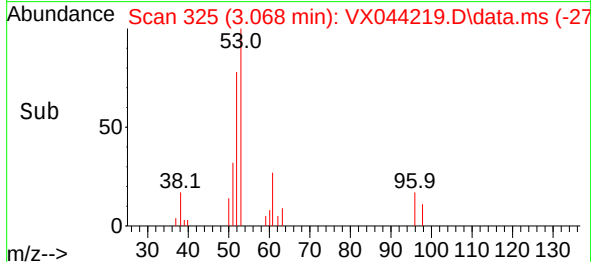
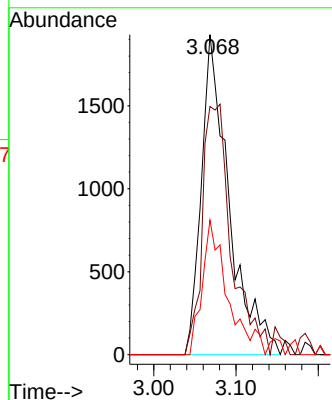
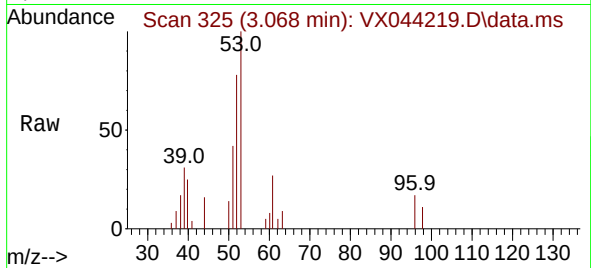




#15
Acrylonitrile
Concen: 4.660 ug/l
RT: 3.068 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

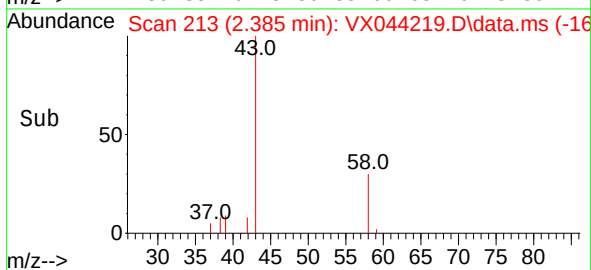
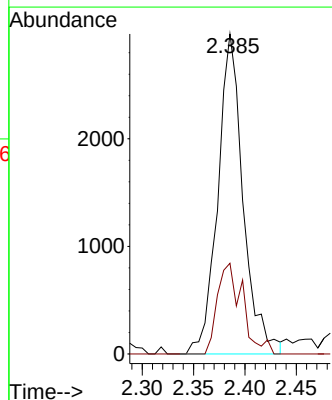
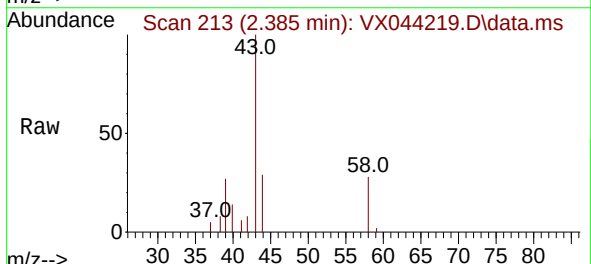
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

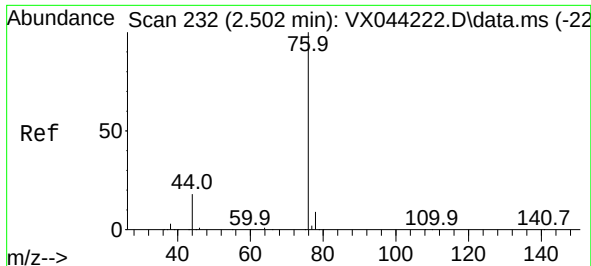
Tgt Ion: 53 Resp: 4528
Ion Ratio Lower Upper
53 100
52 81.4 67.4 101.0
51 38.3 30.3 45.5



#16
Acetone
Concen: 5.022 ug/l
RT: 2.385 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 5096
Ion Ratio Lower Upper
43 100
58 28.3 21.6 32.4

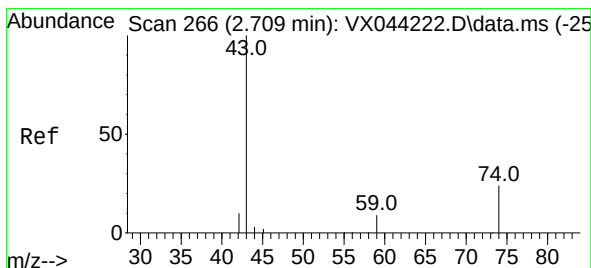
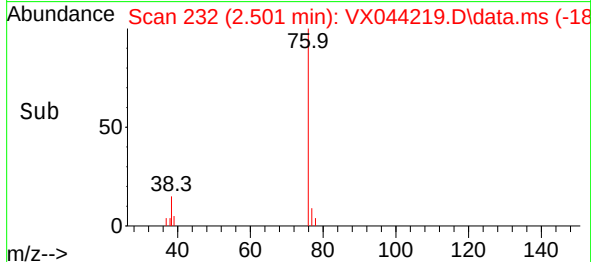
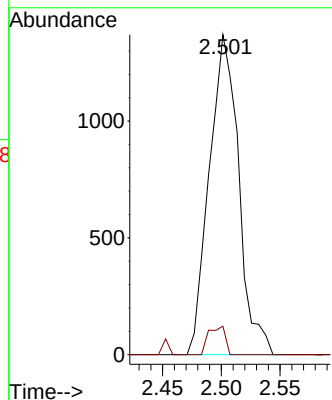
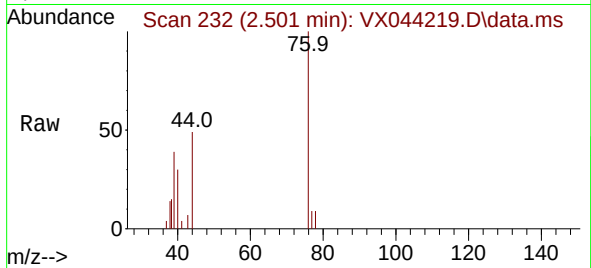




#17
Carbon Disulfide
Concen: 0.789 ug/l
RT: 2.501 min Scan# 24
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

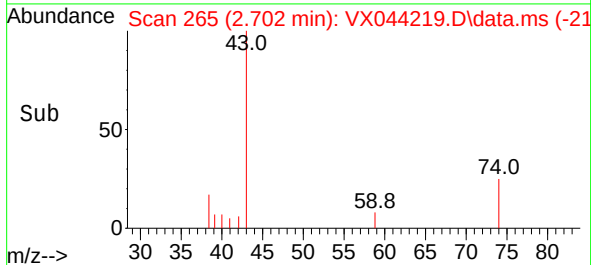
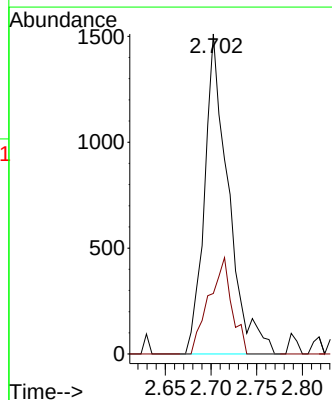
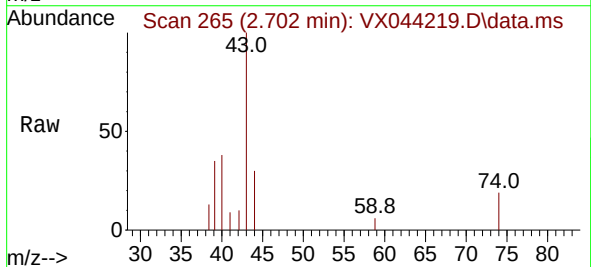
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

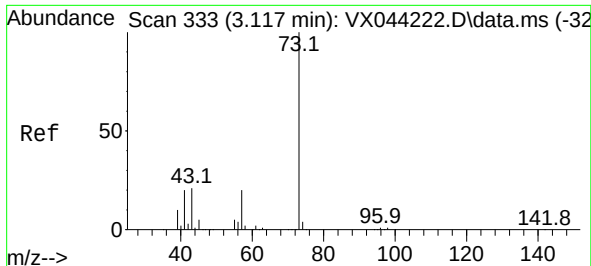
Tgt Ion: 76 Resp: 2387
Ion Ratio Lower Upper
76 100
78 8.9 7.4 11.0



#18
Methyl Acetate
Concen: 1.047 ug/l
RT: 2.702 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 2739
Ion Ratio Lower Upper
43 100
74 28.9 17.7 26.5#





#19

Methyl tert-butyl Ether

Concen: 0.939 ug/l

RT: 3.117 min Scan# 3

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

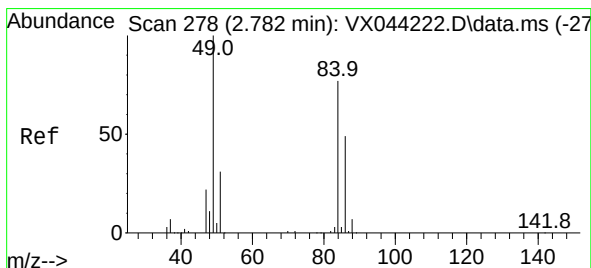
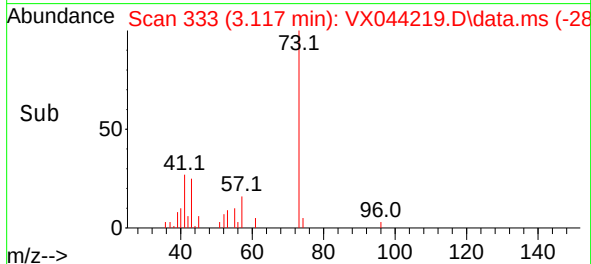
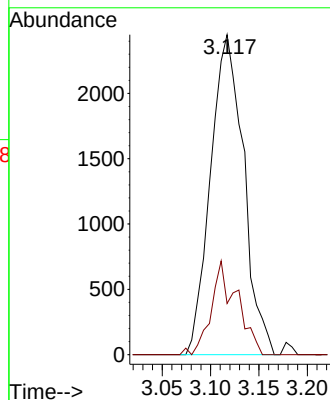
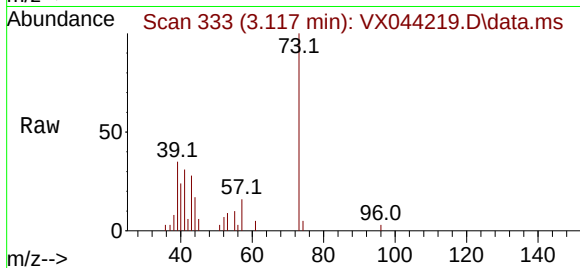
VSTDIC001

Tgt Ion: 73 Resp: 5832

Ion Ratio Lower Upper

73 100

57 16.0 16.2 24.4#



#20

Methylene Chloride

Concen: 1.012 ug/l

RT: 2.776 min Scan# 277

Delta R.T. -0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Tgt Ion: 84 Resp: 1928

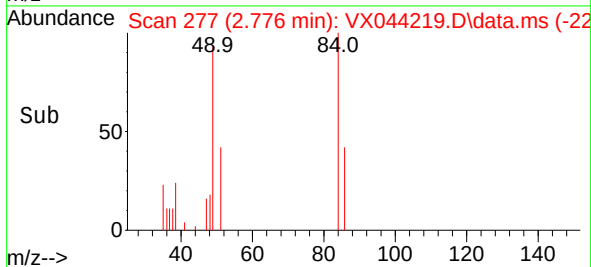
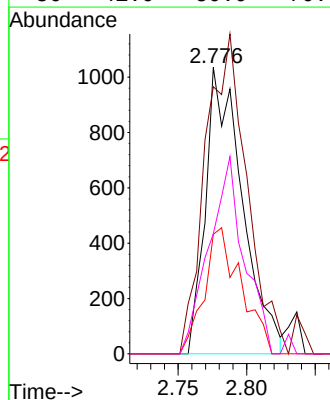
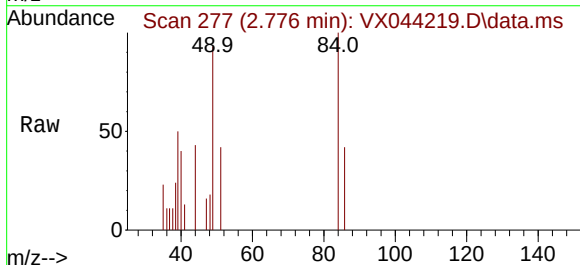
Ion Ratio Lower Upper

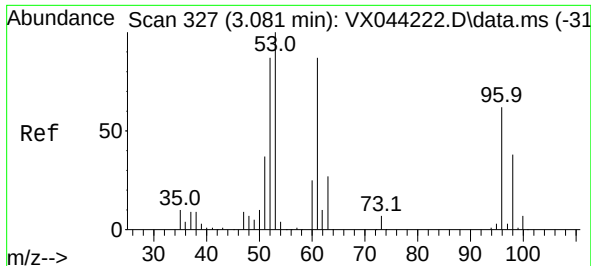
84 100

49 93.2 104.2 156.4#

51 41.7 32.2 48.4

86 41.9 50.9 76.3#





#21

trans-1,2-Dichloroethene

Concen: 1.007 ug/l

RT: 3.080 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

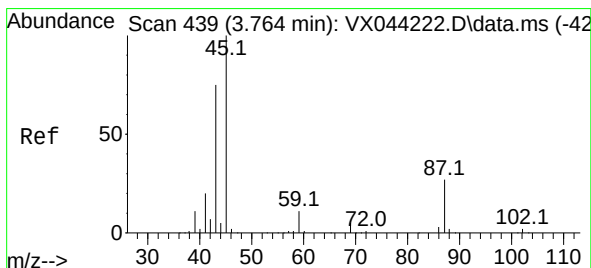
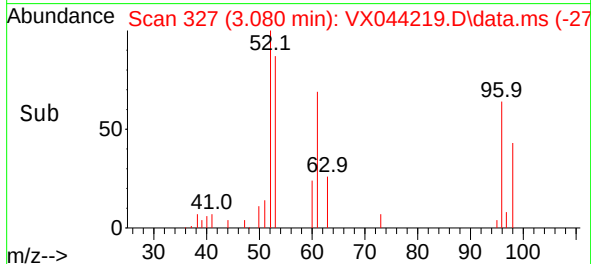
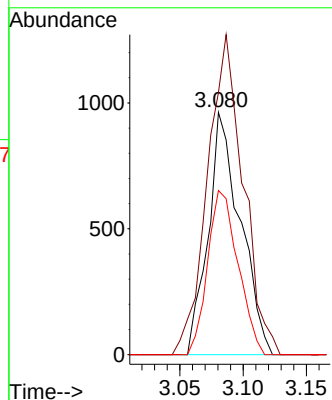
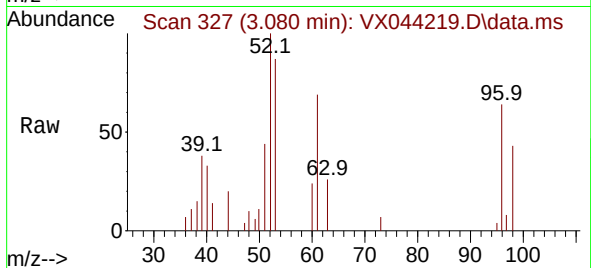
Tgt Ion: 96 Resp: 1703

Ion Ratio Lower Upper

96 100

61 108.1 112.0 168.0#

98 67.7 48.8 73.2



#22

Diisopropyl ether

Concen: 0.971 ug/l

RT: 3.763 min Scan# 439

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Tgt Ion: 45 Resp: 5792

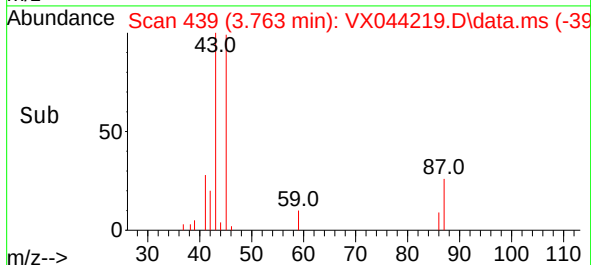
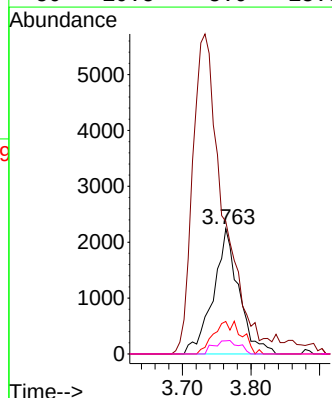
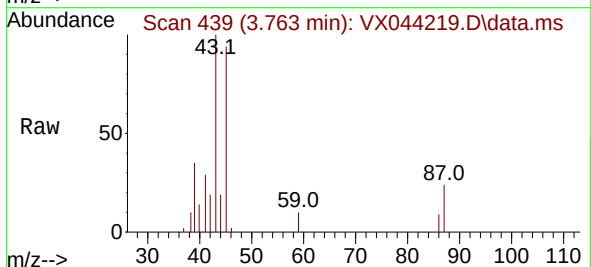
Ion Ratio Lower Upper

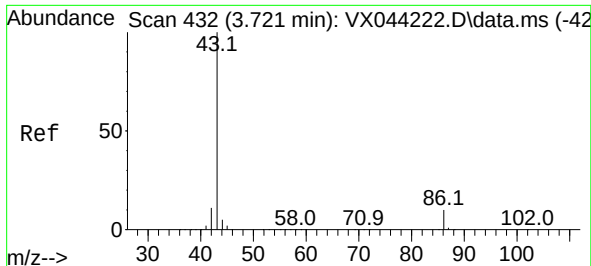
45 100

43 96.8 60.2 90.2#

87 25.9 21.2 31.8

59 10.5 8.9 13.3

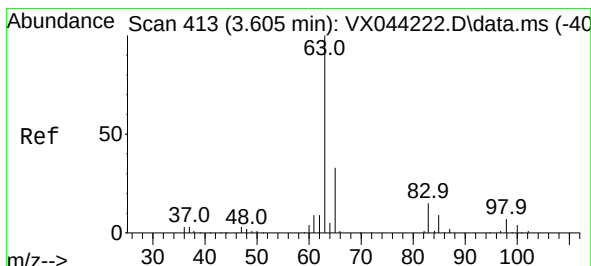
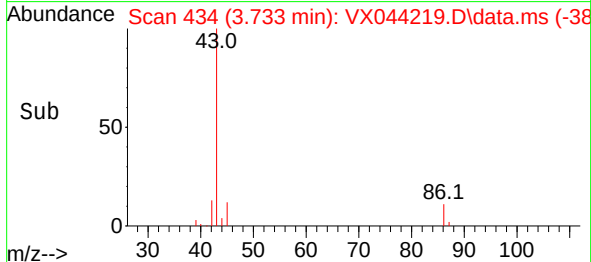
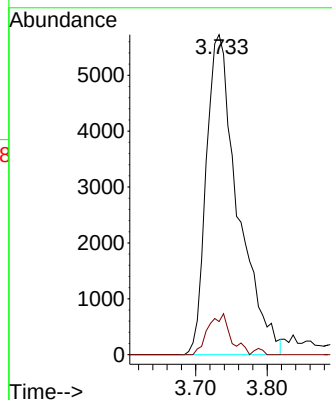
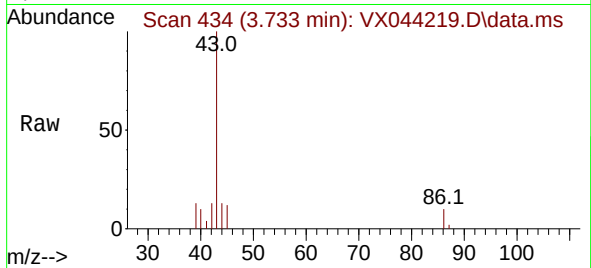




#23
 Vinyl Acetate
 Concen: 3.623 ug/l
 RT: 3.733 min Scan# 413
 Delta R.T. 0.012 min
 Lab File: VX044219.D
 Acq: 11 Dec 2024 10:41

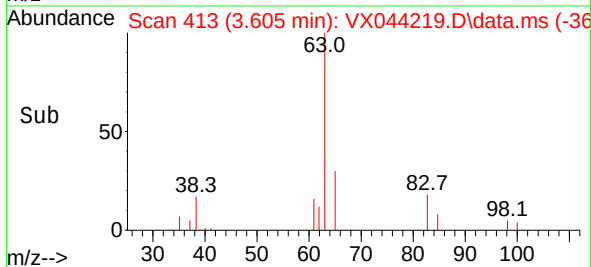
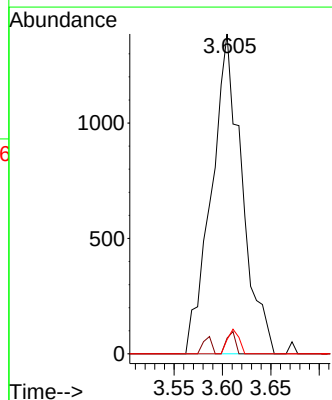
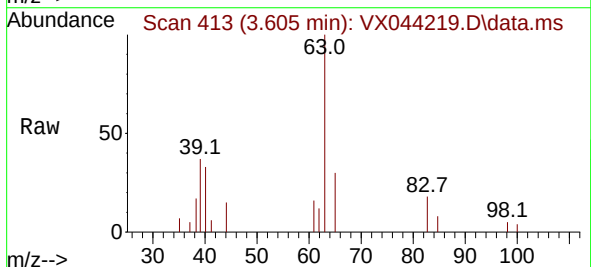
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC001

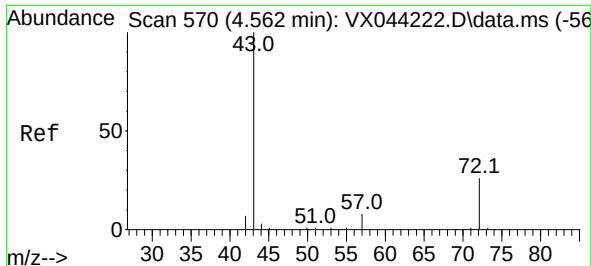
Tgt Ion: 43 Resp: 17578
 Ion Ratio Lower Upper
 43 100
 86 10.3 8.2 12.2



#24
 1,1-Dichloroethane
 Concen: 0.914 ug/l
 RT: 3.605 min Scan# 413
 Delta R.T. -0.000 min
 Lab File: VX044219.D
 Acq: 11 Dec 2024 10:41

Tgt Ion: 63 Resp: 3040
 Ion Ratio Lower Upper
 63 100
 98 4.9 3.6 10.8
 100 4.5 2.1 6.3





#25

2-Butanone

Concen: 4.423 ug/l

RT: 4.586 min Scan# 5

Delta R.T. 0.024 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

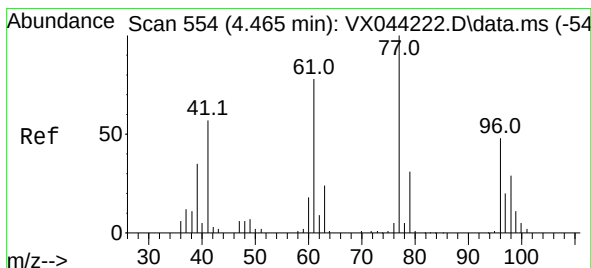
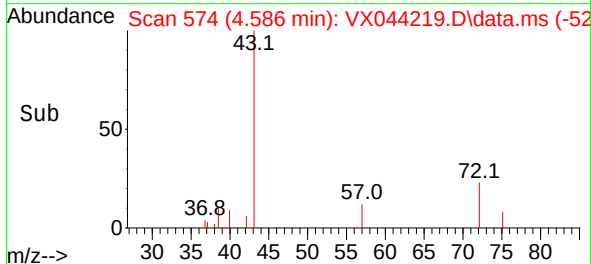
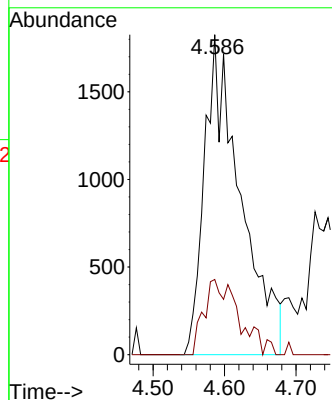
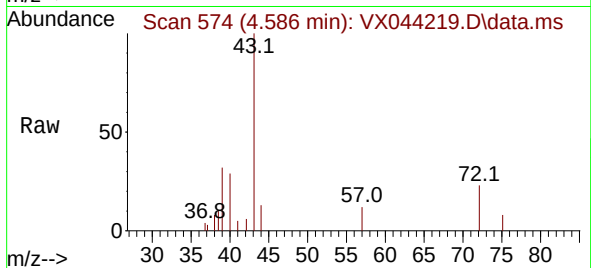
VSTDICC001

Tgt Ion: 43 Resp: 6380

Ion Ratio Lower Upper

43 100

72 23.5 20.2 30.4



#26

2,2-Dichloropropane

Concen: 0.821 ug/l

RT: 4.464 min Scan# 554

Delta R.T. -0.000 min

Lab File: VX044219.D

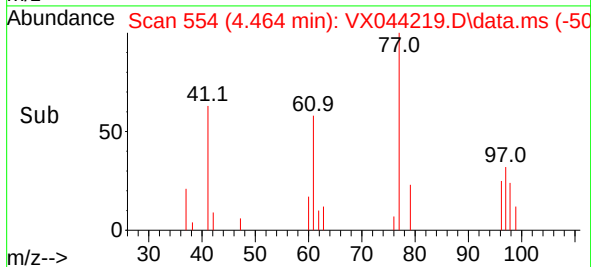
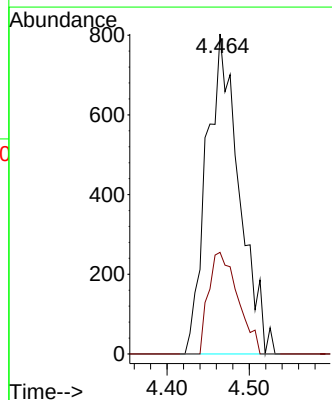
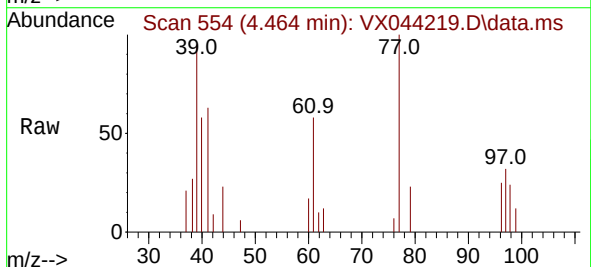
Acq: 11 Dec 2024 10:41

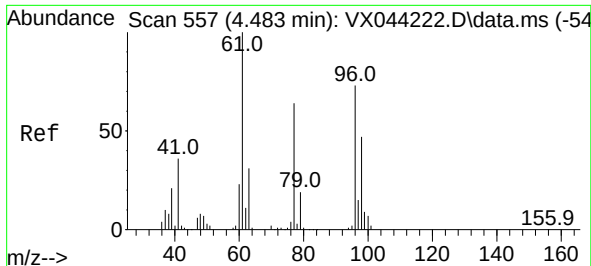
Tgt Ion: 77 Resp: 2220

Ion Ratio Lower Upper

77 100

97 28.4 10.7 32.1

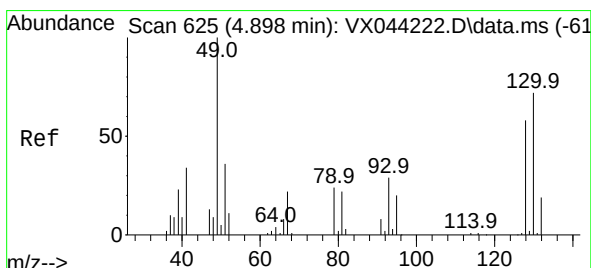
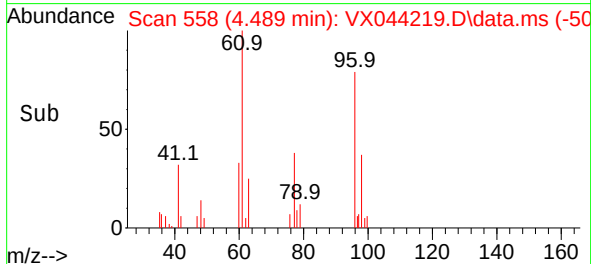
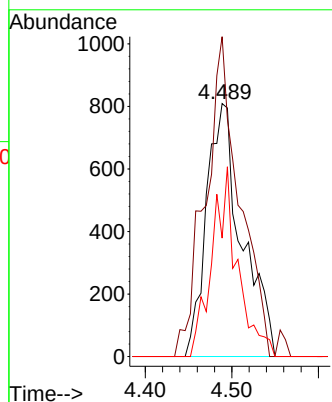
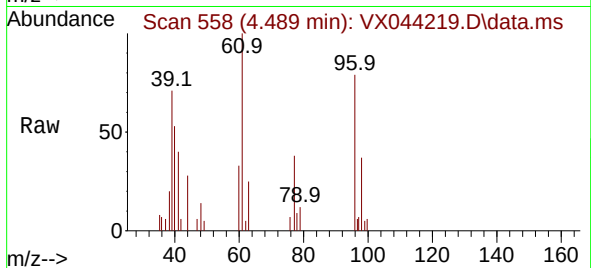




#27
cis-1,2-Dichloroethene
Concen: 1.069 ug/l
RT: 4.489 min Scan# 51
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

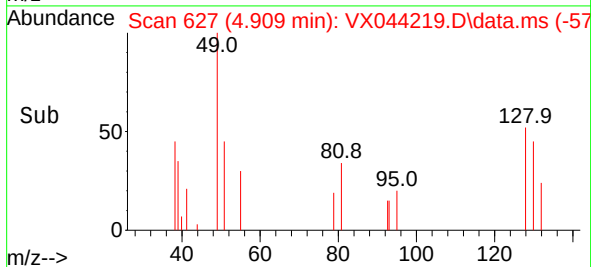
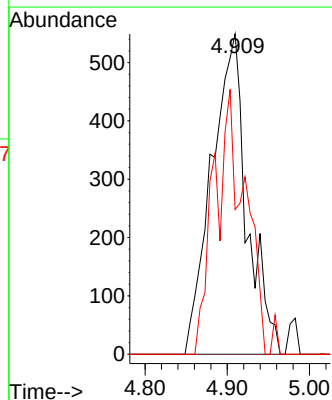
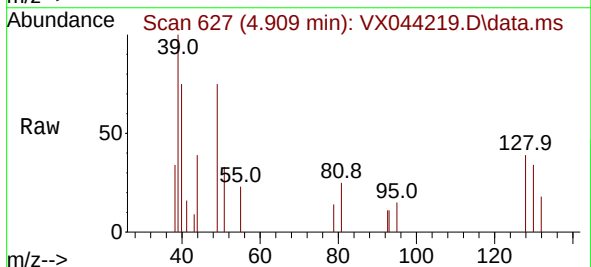
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

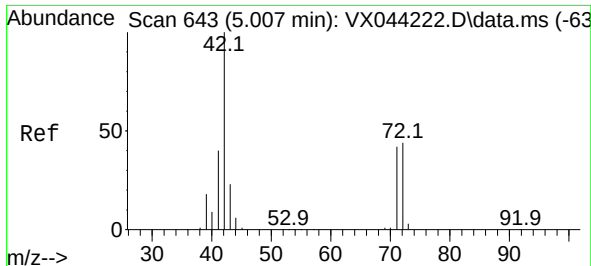
Tgt Ion: 96	Resp: 2296
Ion Ratio	Lower Upper
96 100	
61 122.2	0.0 299.0
98 54.0	0.0 129.0



#28
Bromochloromethane
Concen: 1.006 ug/l
RT: 4.909 min Scan# 627
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 49	Resp: 1641
Ion Ratio	Lower Upper
49 100	
129 0.0	0.0 4.2
130 52.7	62.1 93.1#





#29

Tetrahydrofuran

Concen: 4.491 ug/l

RT: 5.025 min Scan# 643

Delta R.T. 0.018 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

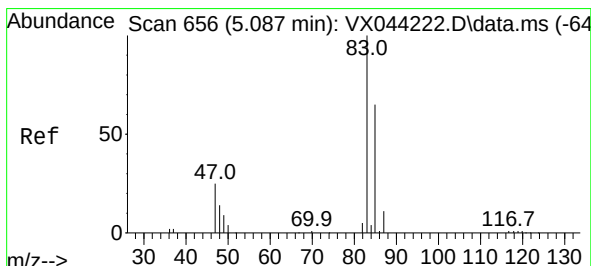
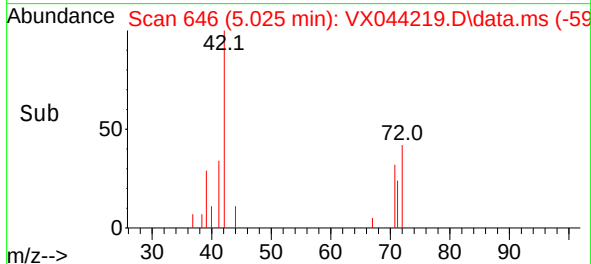
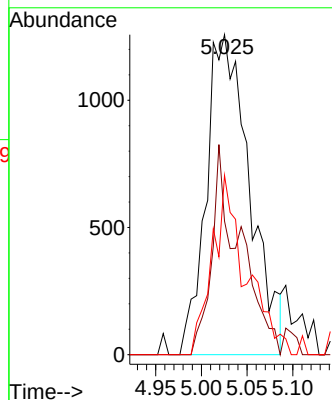
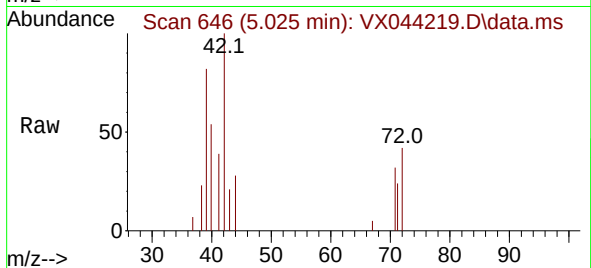
Tgt Ion: 42 Resp: 4158

Ion Ratio Lower Upper

42 100

72 27.0 37.0 55.6#

71 43.1 33.6 50.4



#30

Chloroform

Concen: 1.055 ug/l

RT: 5.086 min Scan# 656

Delta R.T. -0.000 min

Lab File: VX044219.D

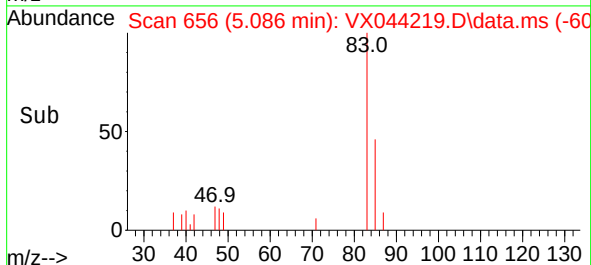
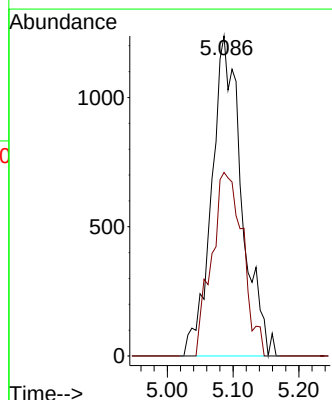
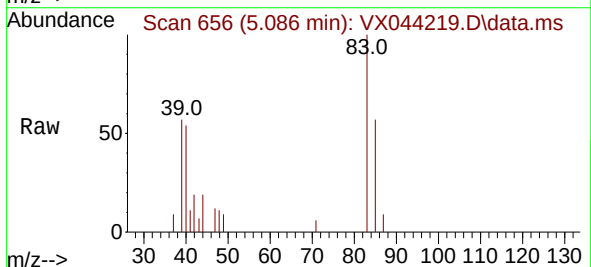
Acq: 11 Dec 2024 10:41

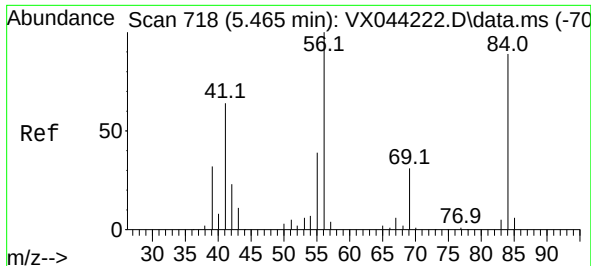
Tgt Ion: 83 Resp: 3943

Ion Ratio Lower Upper

83 100

85 57.4 51.6 77.4

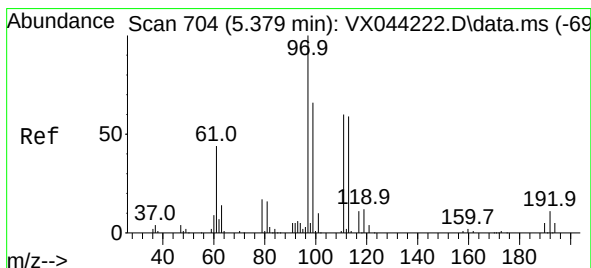
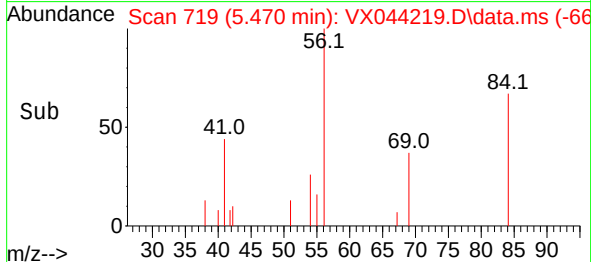
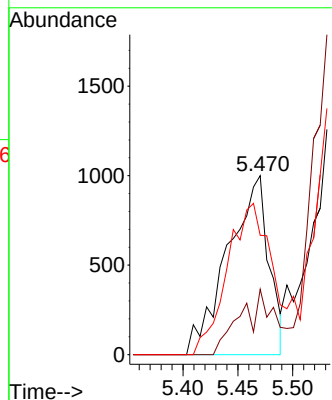
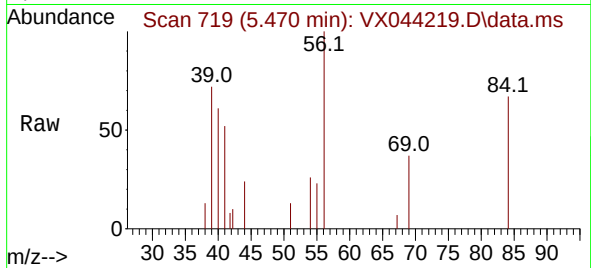




#31
Cyclohexane
Concen: 0.966 ug/l
RT: 5.470 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

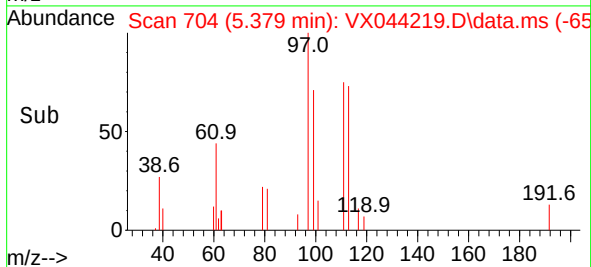
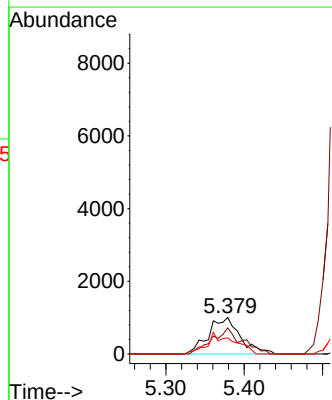
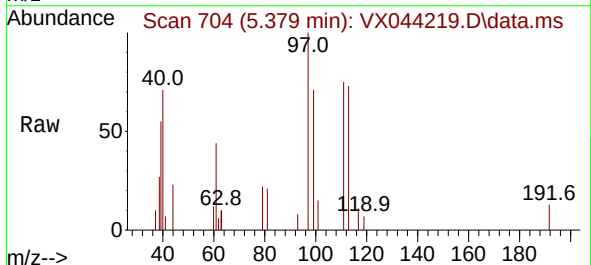
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

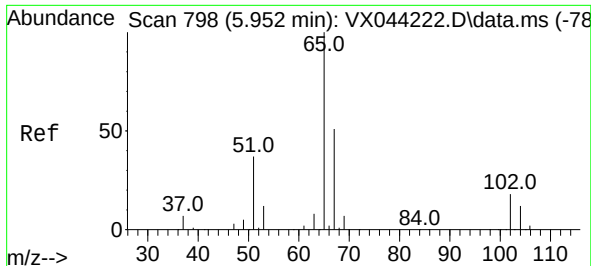
Tgt Ion: 56 Resp: 2594
Ion Ratio Lower Upper
56 100
69 36.5 24.7 37.1
84 66.7 71.0 106.6#



#32
1,1,1-Trichloroethane
Concen: 0.908 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 97 Resp: 2818
Ion Ratio Lower Upper
97 100
99 0.0 50.8 76.2#
61 49.9 35.2 52.8

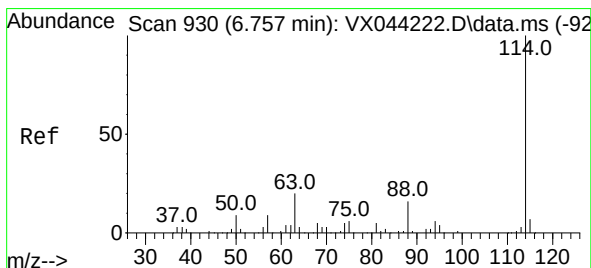
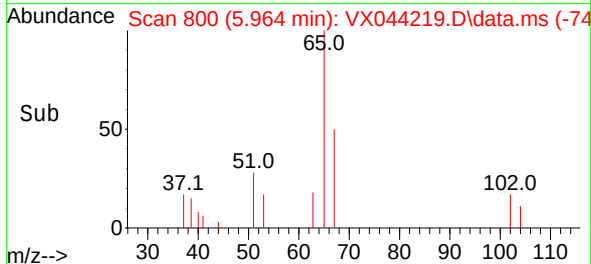
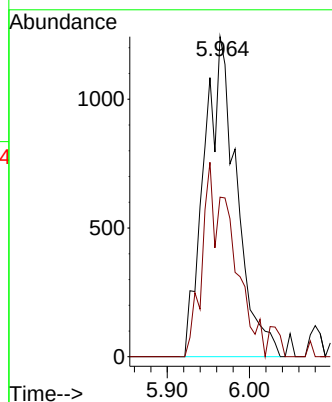
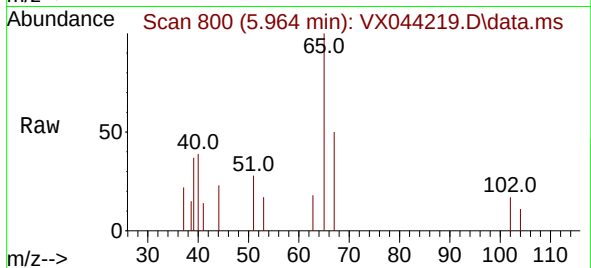




#33
1,2-Dichloroethane-d4
Concen: 1.369 ug/l
RT: 5.964 min Scan# 80
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

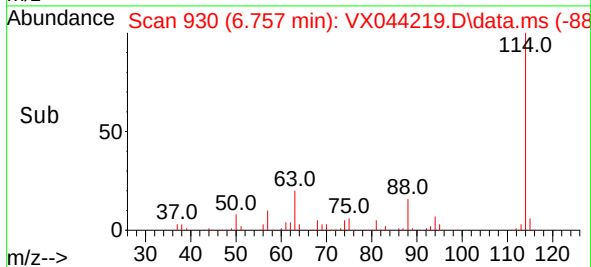
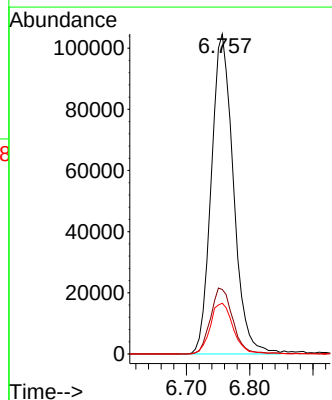
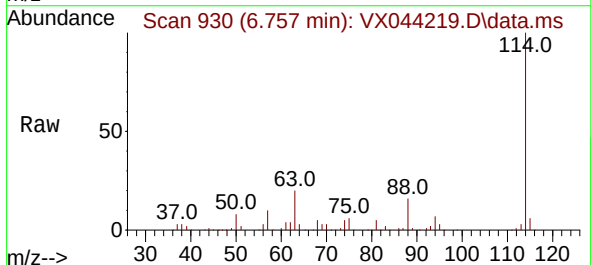
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

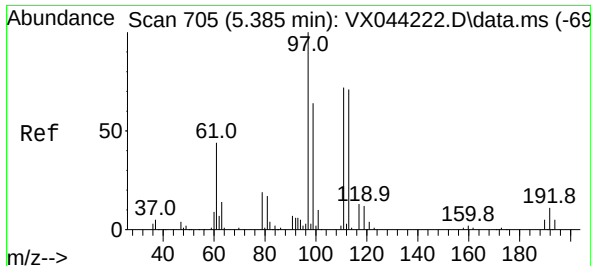
Tgt Ion: 65 Resp: 3407
Ion Ratio Lower Upper
65 100
67 24.2 0.0 101.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 114 Resp: 253574
Ion Ratio Lower Upper
114 100
63 20.1 0.0 40.6
88 15.8 0.0 31.8





#35

Dibromofluoromethane

Concen: 1.205 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

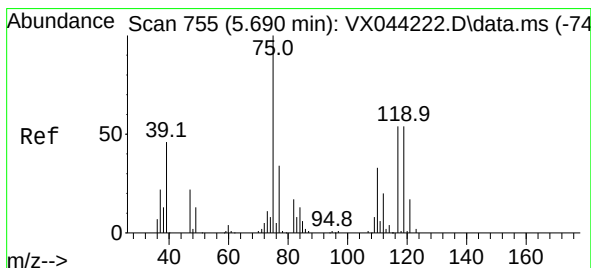
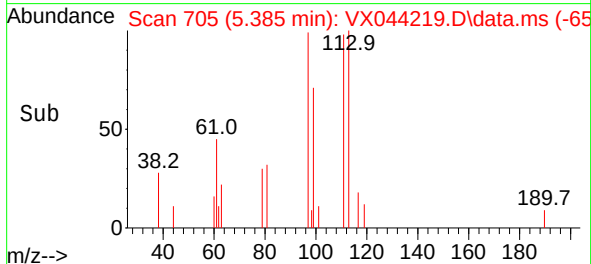
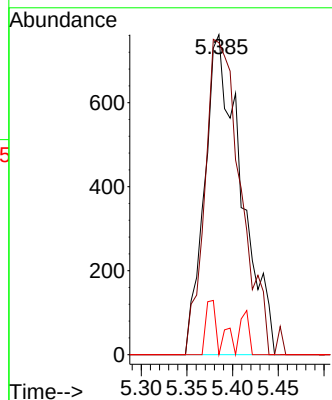
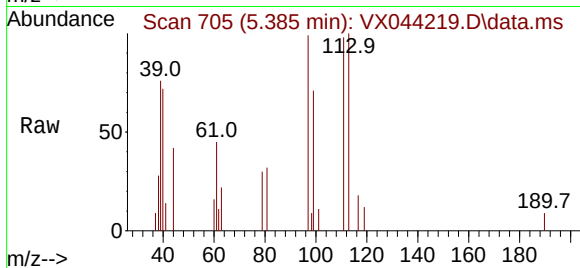
Tgt Ion:113 Resp: 2117

Ion Ratio Lower Upper

113 100

111 96.5 80.4 120.6

192 5.4 13.3 19.9#



#36

1,1-Dichloropropene

Concen: 0.519 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

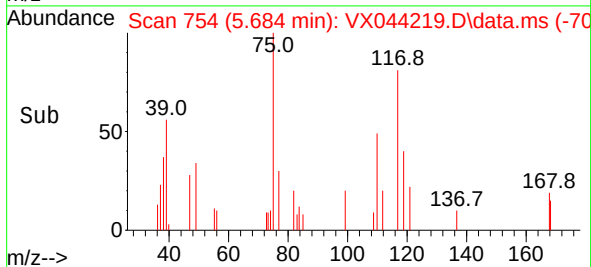
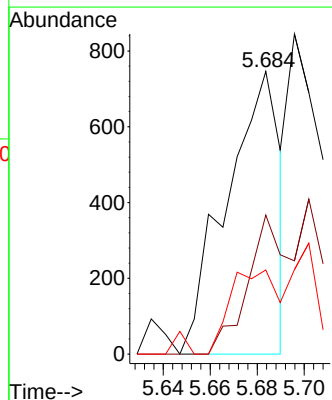
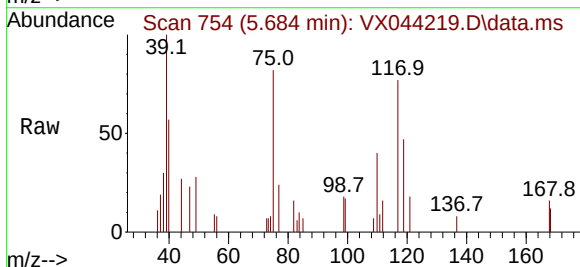
Tgt Ion: 75 Resp: 1178

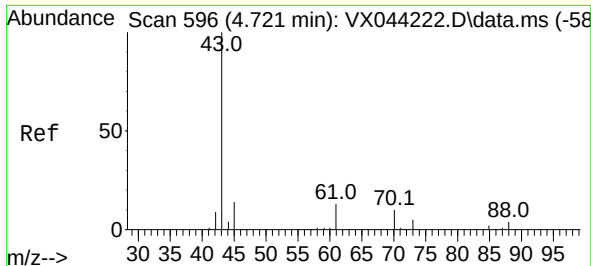
Ion Ratio Lower Upper

75 100

110 38.7 17.3 51.7

77 26.7 25.4 38.0





#37

Ethyl Acetate

Concen: 0.969 ug/l

RT: 4.727 min Scan# 596

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

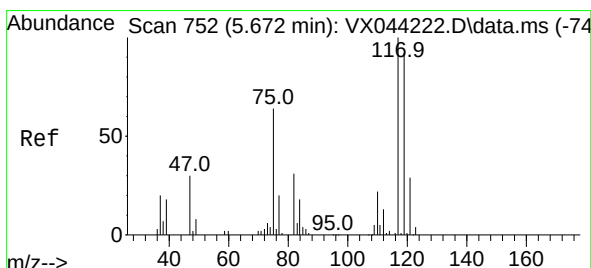
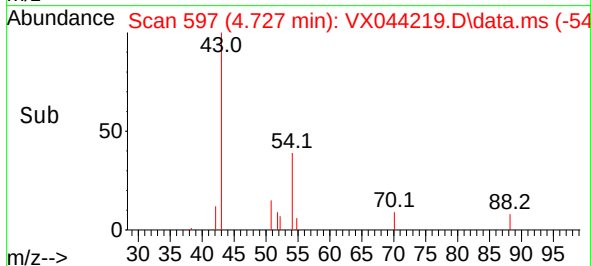
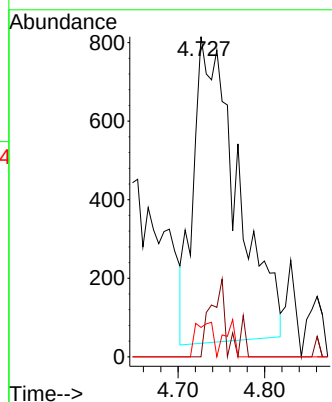
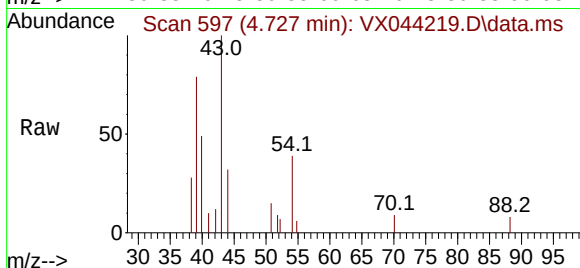
Tgt Ion: 43 Resp: 2718

Ion Ratio Lower Upper

43 100

61 0.0 9.8 14.8#

70 0.0 7.7 11.5#



#38

Carbon Tetrachloride

Concen: 1.004 ug/l

RT: 5.678 min Scan# 753

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

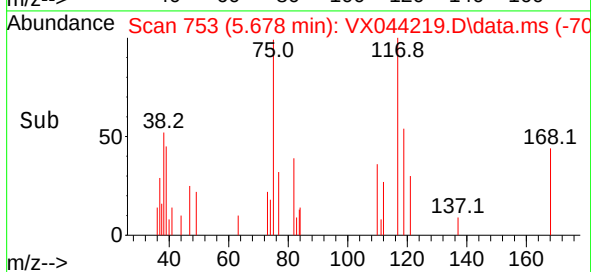
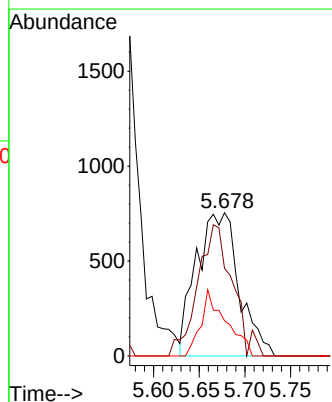
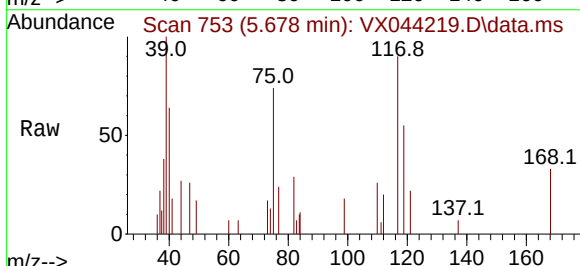
Tgt Ion: 117 Resp: 2454

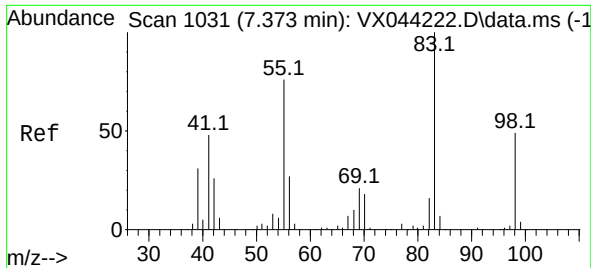
Ion Ratio Lower Upper

117 100

119 61.1 74.2 111.4#

121 24.5 23.0 34.6

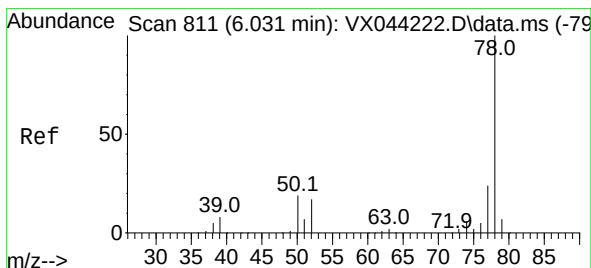
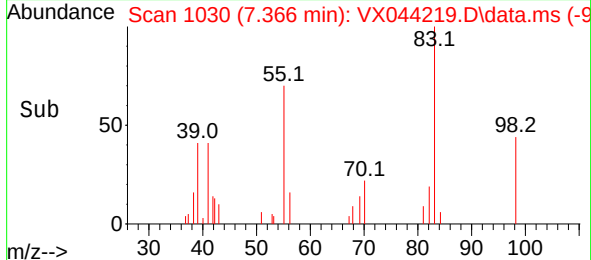
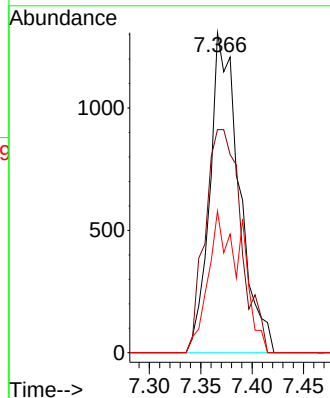
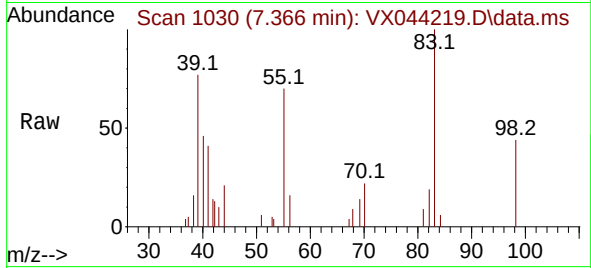




#39
Methylcyclohexane
Concen: 0.960 ug/l
RT: 7.366 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

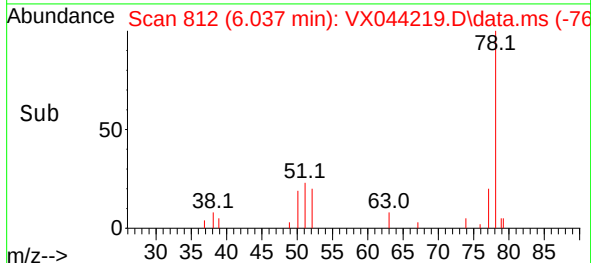
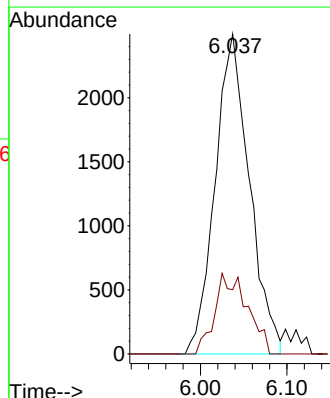
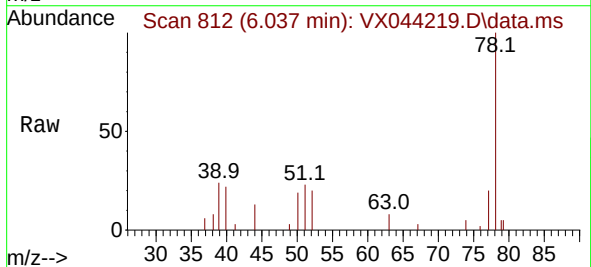
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

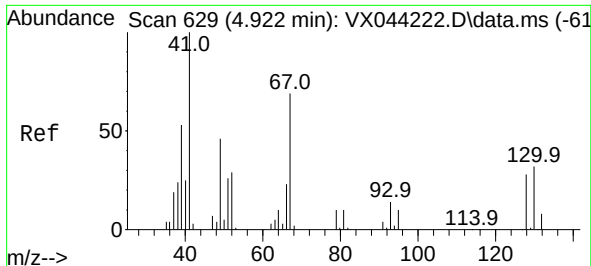
Tgt Ion: 83 Resp: 2606
Ion Ratio Lower Upper
83 100
55 69.7 60.7 91.1
98 44.3 38.9 58.3



#40
Benzene
Concen: 0.996 ug/l
RT: 6.037 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 78 Resp: 6864
Ion Ratio Lower Upper
78 100
77 20.1 19.3 28.9





#41

Methacrylonitrile

Concen: 0.262 ug/l

RT: 4.922 min Scan# 61

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 41 Resp: 390

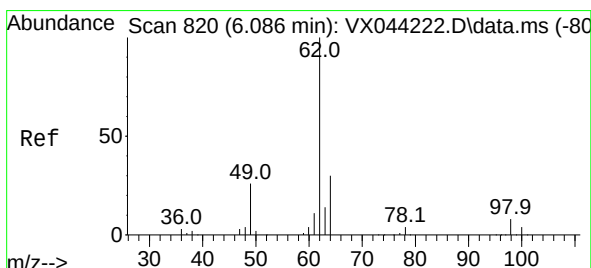
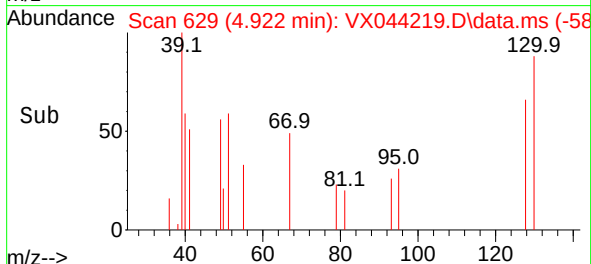
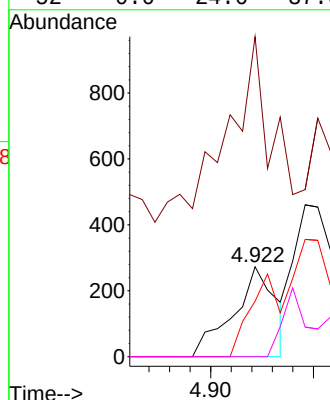
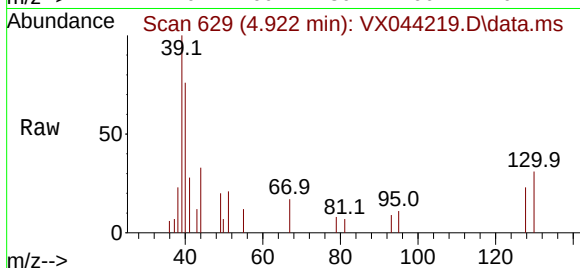
Ion Ratio Lower Upper

41 100

39 216.9 44.2 66.4#

67 0.0 57.2 85.8#

52 0.0 24.6 37.0#



#42

1,2-Dichloroethane

Concen: 0.990 ug/l

RT: 6.092 min Scan# 821

Delta R.T. 0.006 min

Lab File: VX044219.D

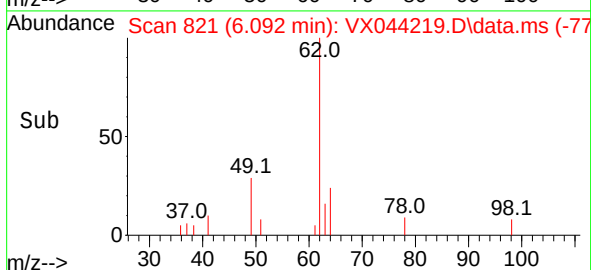
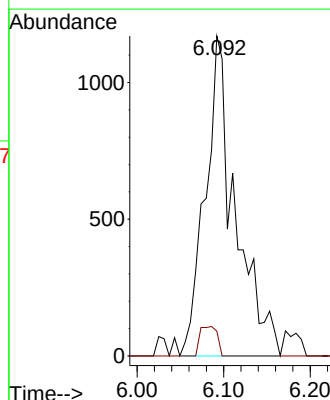
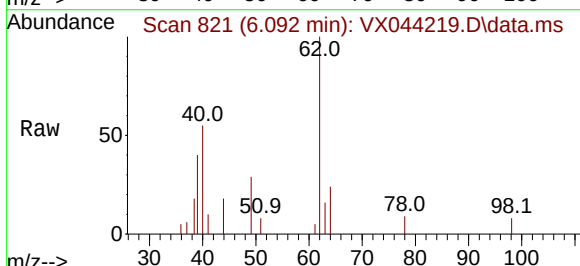
Acq: 11 Dec 2024 10:41

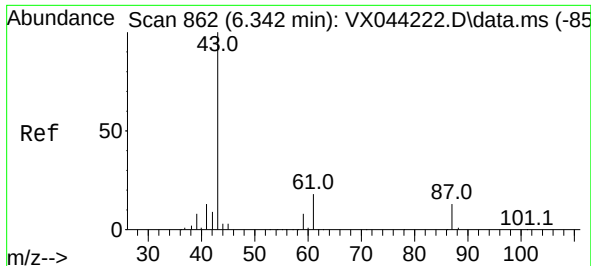
Tgt Ion: 62 Resp: 2810

Ion Ratio Lower Upper

62 100

98 5.3 0.0 15.8

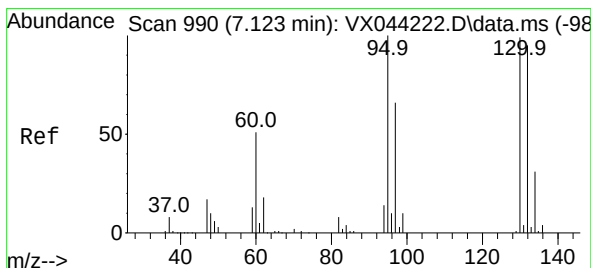
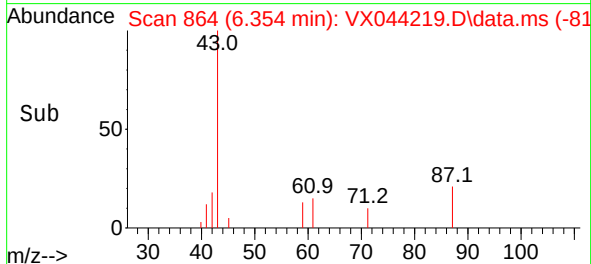
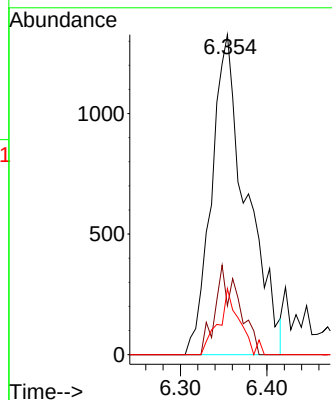
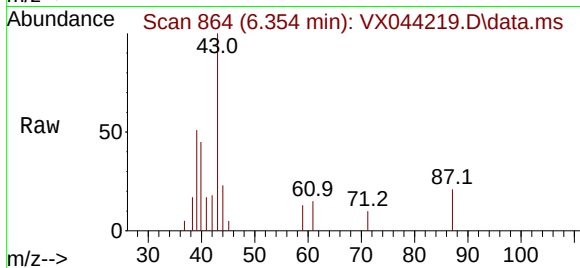




#43
Isopropyl Acetate
Concen: 0.851 ug/l
RT: 6.354 min Scan# 864
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

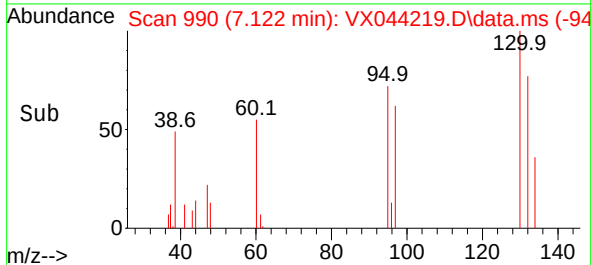
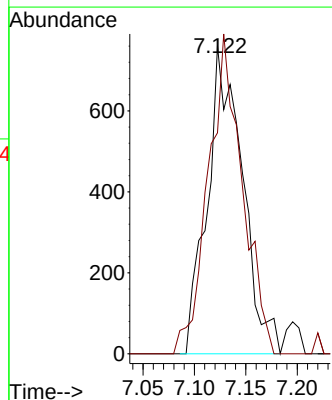
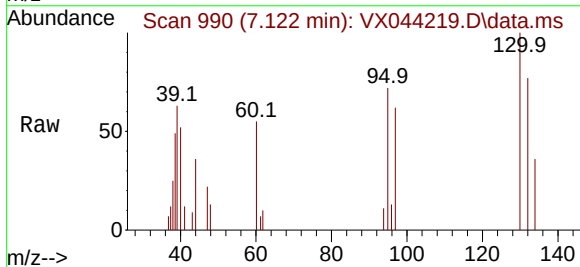
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

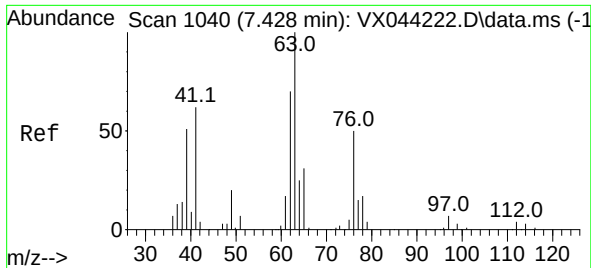
Tgt Ion: 43 Resp: 3734
Ion Ratio Lower Upper
43 100
61 18.9 14.2 21.2
87 12.4 10.2 15.2



#44
Trichloroethene
Concen: 1.051 ug/l
RT: 7.122 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:130 Resp: 1806
Ion Ratio Lower Upper
130 100
95 71.7 0.0 201.4





#45

1,2-Dichloropropane

Concen: 1.059 ug/l

RT: 7.433 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

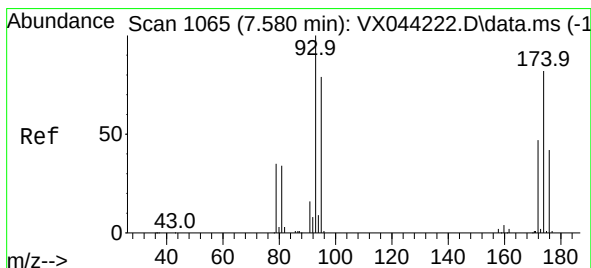
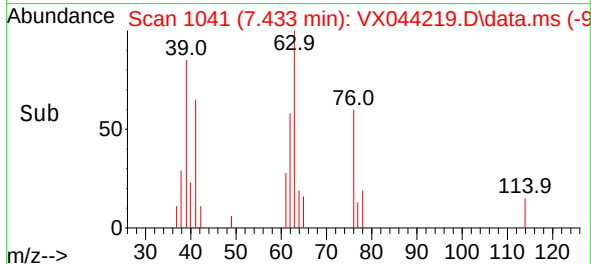
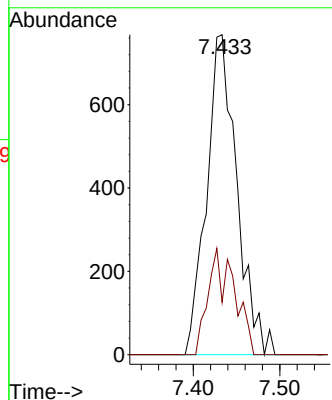
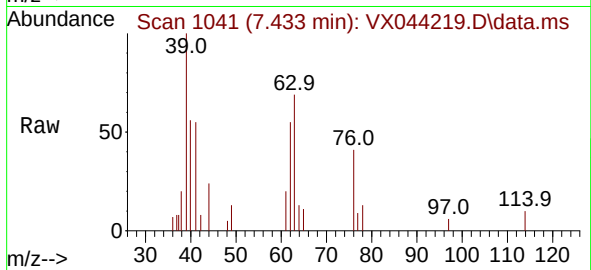
VSTDIC001

Tgt Ion: 63 Resp: 1865

Ion Ratio Lower Upper

63 100

65 16.4 24.6 37.0#



#46

Dibromomethane

Concen: 0.916 ug/l

RT: 7.592 min Scan# 1067

Delta R.T. 0.012 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

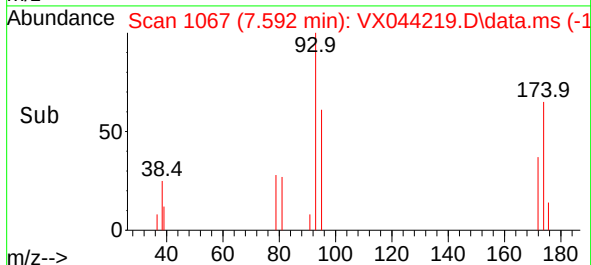
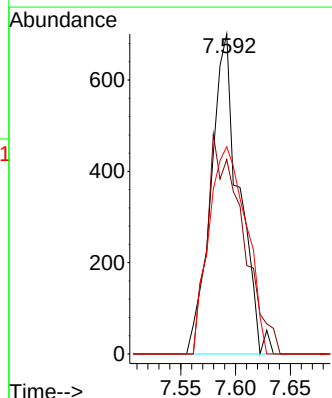
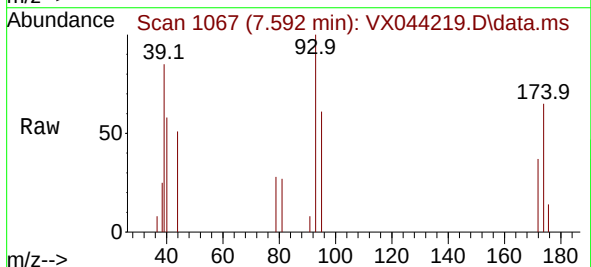
Tgt Ion: 93 Resp: 1251

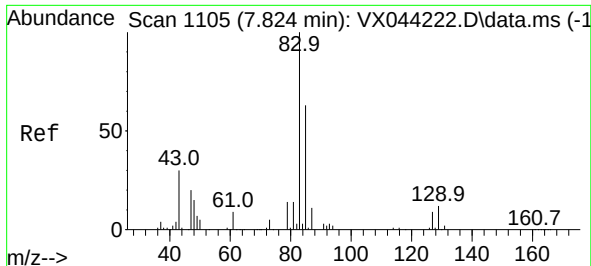
Ion Ratio Lower Upper

93 100

95 85.8 65.4 98.2

174 86.3 67.9 101.9





#47

Bromodichloromethane

Concen: 0.816 ug/l

RT: 7.830 min Scan# 1105

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

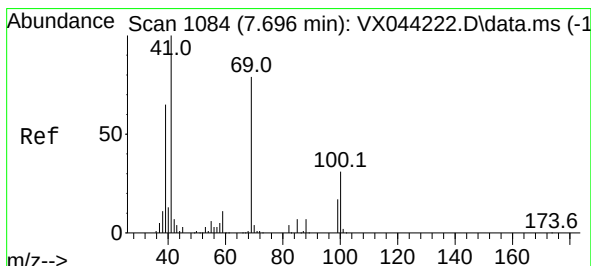
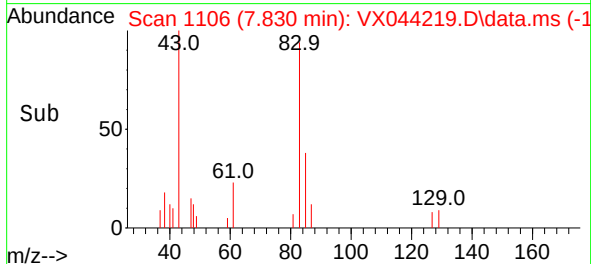
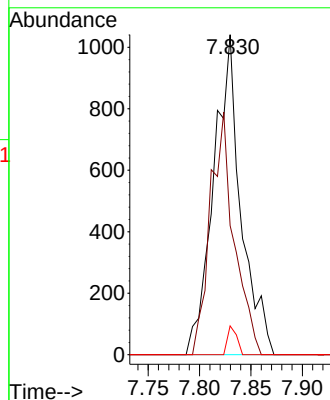
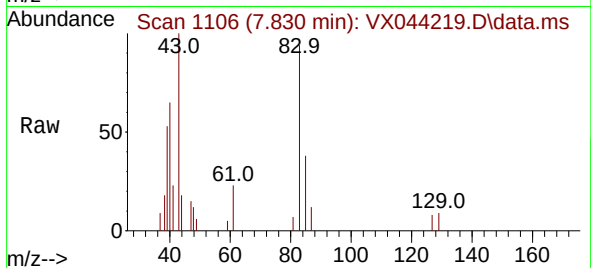
Tgt Ion: 83 Resp: 1926

Ion Ratio Lower Upper

83 100

85 40.3 50.6 75.8#

127 9.0 7.3 10.9



#48

Methyl methacrylate

Concen: 1.018 ug/l

RT: 7.720 min Scan# 1088

Delta R.T. 0.024 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

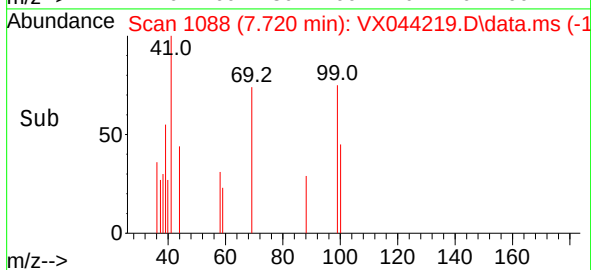
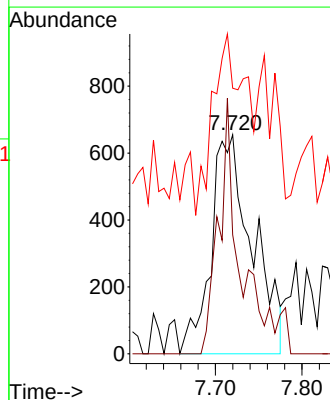
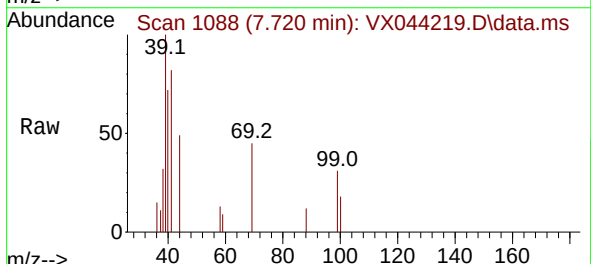
Tgt Ion: 41 Resp: 2168

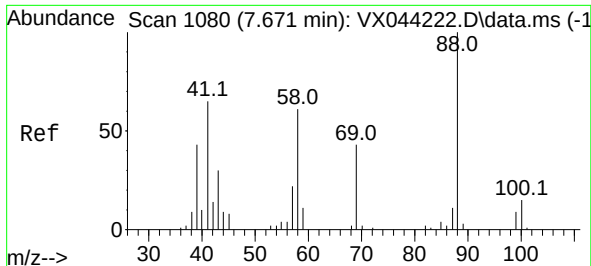
Ion Ratio Lower Upper

41 100

69 43.9 62.4 93.6#

39 64.1 53.3 79.9





#49

1,4-Dioxane

Concen: 7.943 ug/l

RT: 7.702 min Scan# 1

Delta R.T. 0.030 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

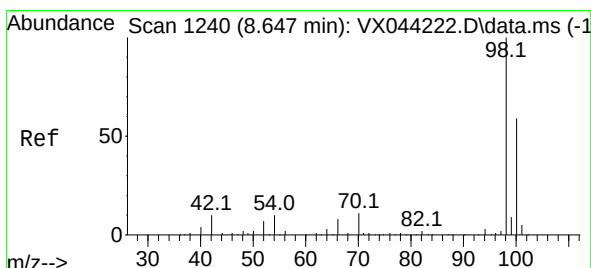
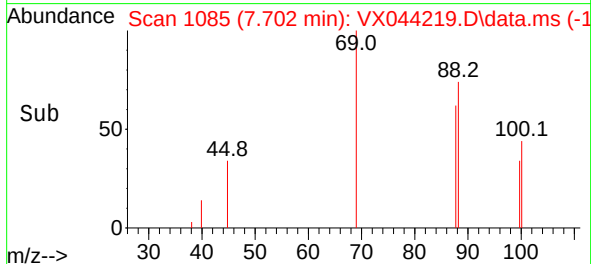
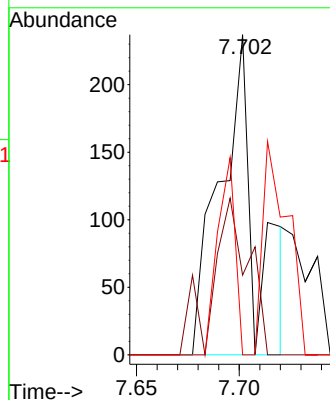
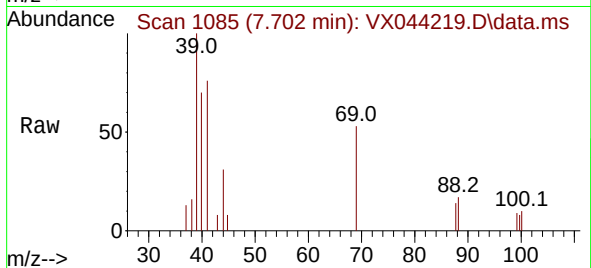
Tgt Ion: 88 Resp: 289

Ion Ratio Lower Upper

88 100

43 49.1 27.1 40.7#

58 30.1 41.0 61.4#



#50

Toluene-d8

Concen: 1.156 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.006 min

Lab File: VX044219.D

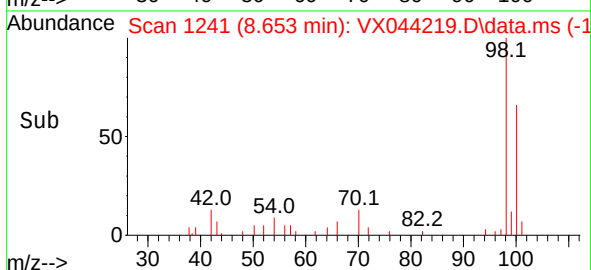
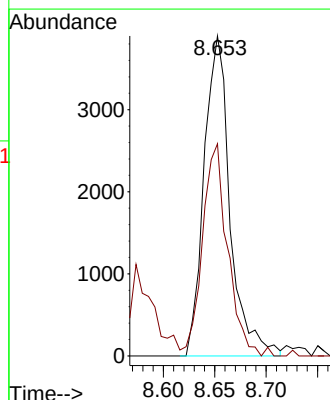
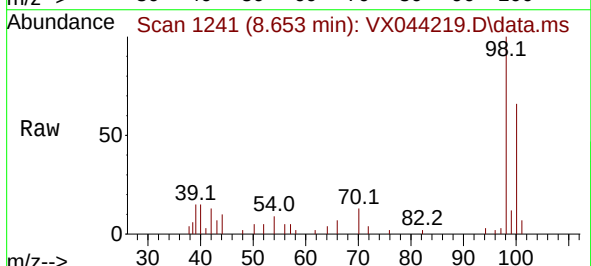
Acq: 11 Dec 2024 10:41

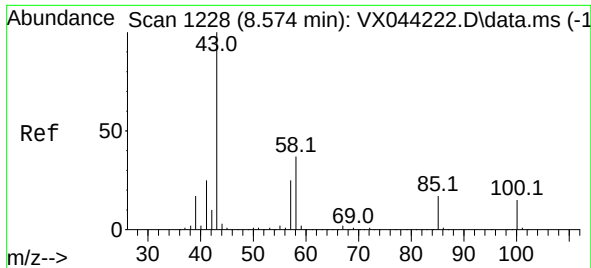
Tgt Ion: 98 Resp: 6848

Ion Ratio Lower Upper

98 100

100 64.3 51.5 77.3

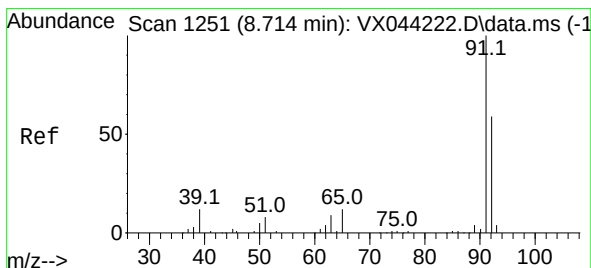
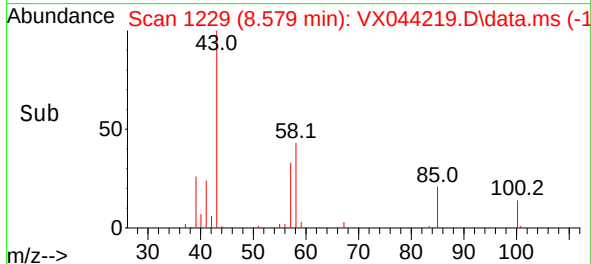
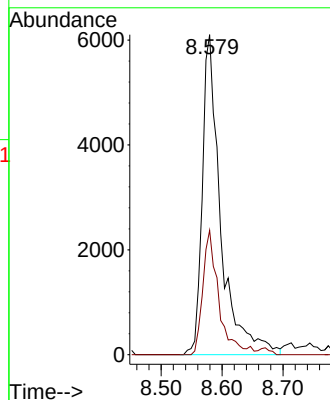
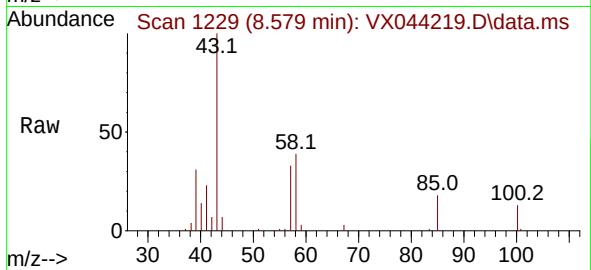




#51
4-Methyl-2-Pentanone
Concen: 4.547 ug/l
RT: 8.579 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

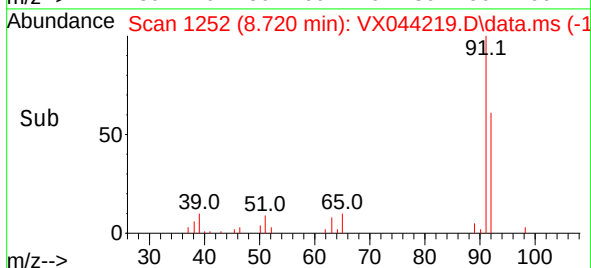
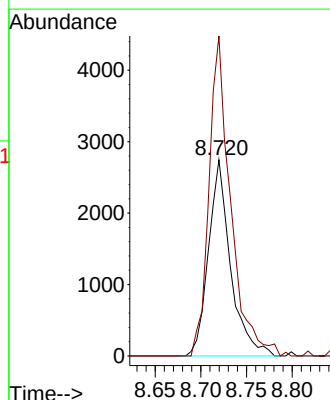
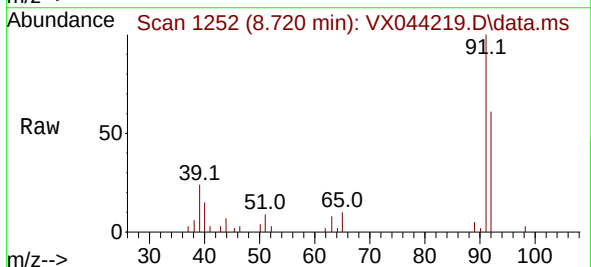
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

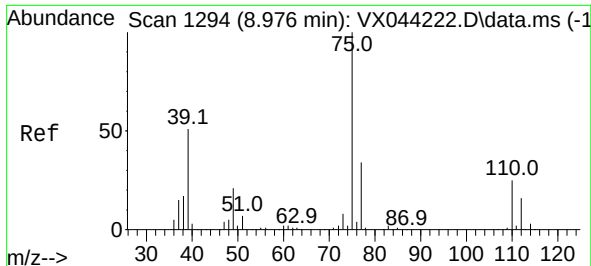
Tgt Ion: 43 Resp: 12824
Ion Ratio Lower Upper
43 100
58 34.0 29.4 44.0



#52
Toluene
Concen: 1.064 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 92 Resp: 4606
Ion Ratio Lower Upper
92 100
91 160.1 137.0 205.6





#53

t-1,3-Dichloropropene

Concen: 1.694 ug/l

RT: 8.988 min Scan# 1129

Delta R.T. 0.012 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

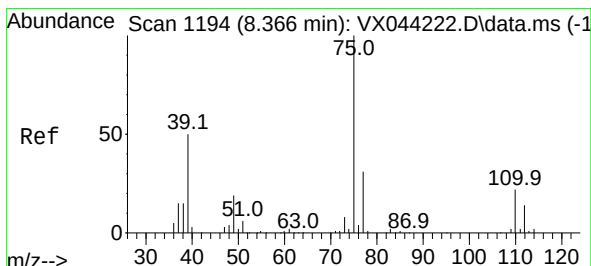
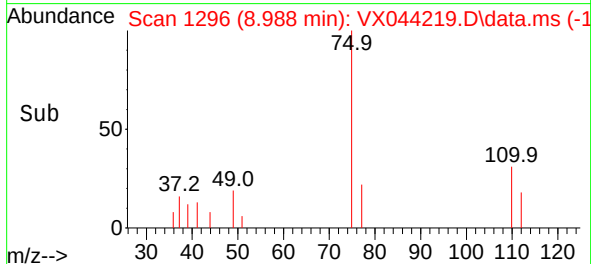
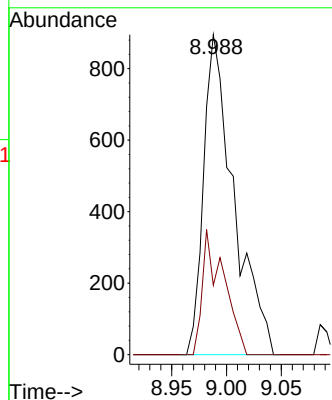
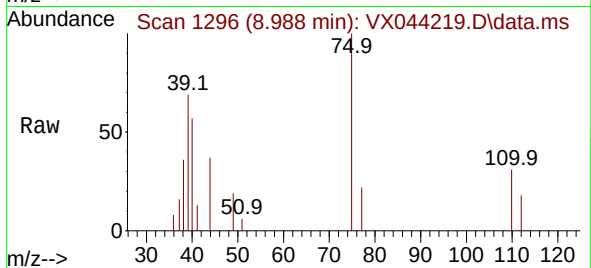
VSTDICC001

Tgt Ion: 75 Resp: 1716

Ion Ratio Lower Upper

75 100

77 21.7 27.2 40.8#



#54

cis-1,3-Dichloropropene

Concen: 0.797 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

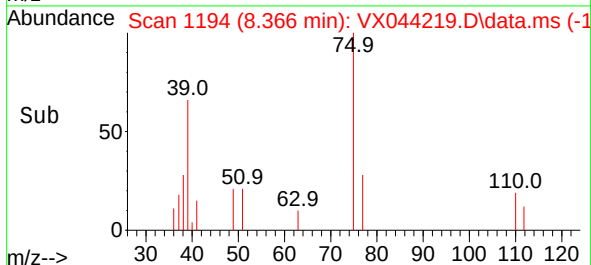
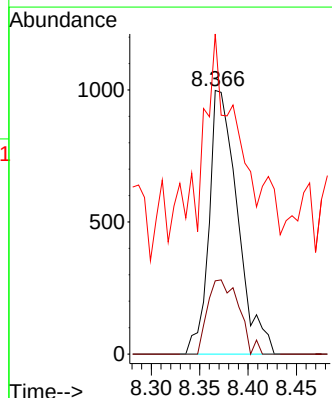
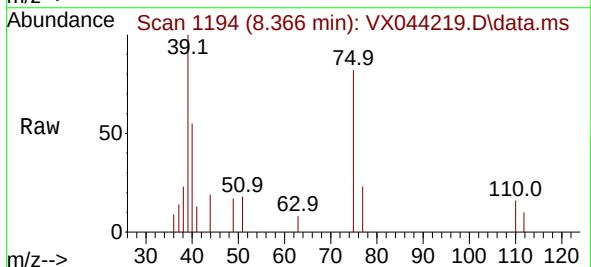
Tgt Ion: 75 Resp: 2048

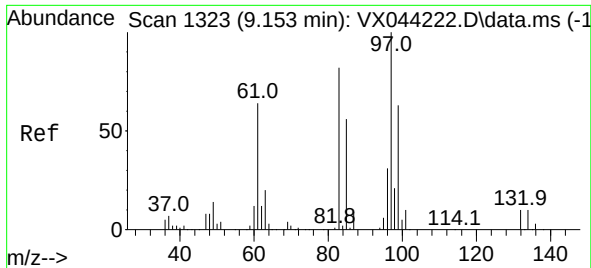
Ion Ratio Lower Upper

75 100

77 27.8 24.7 37.1

39 76.2 40.3 60.5#

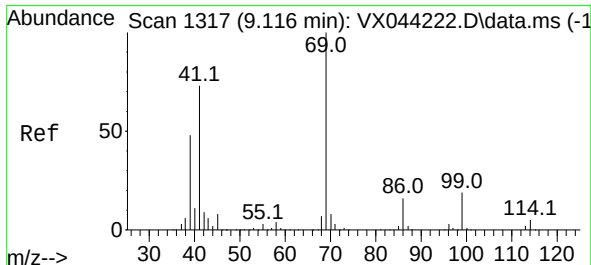
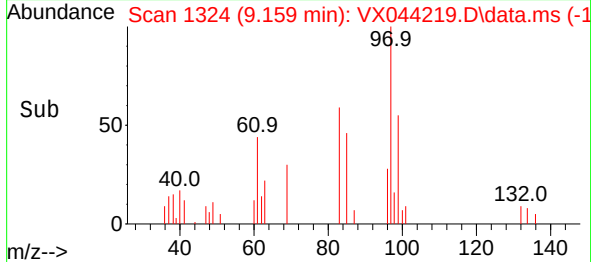
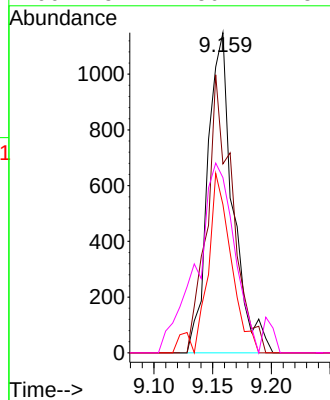
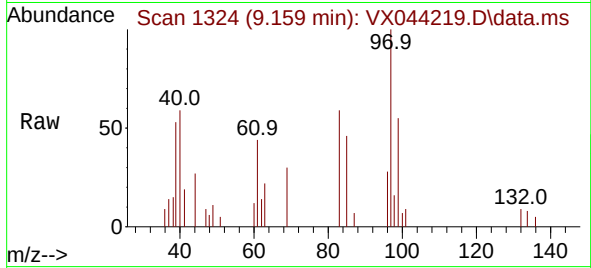




#55
1,1,2-Trichloroethane
Concen: 0.994 ug/l
RT: 9.159 min Scan# 1324
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

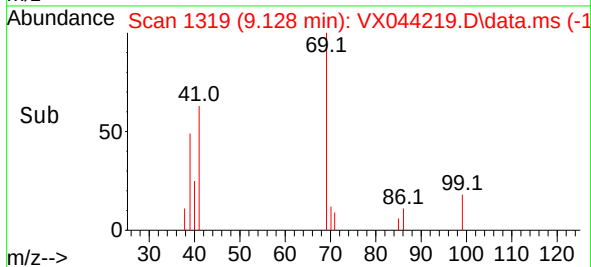
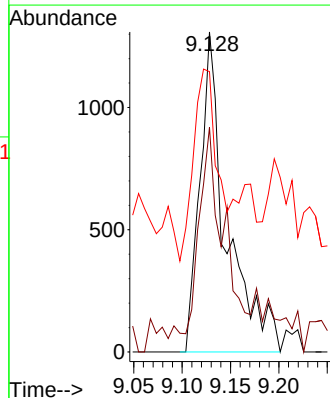
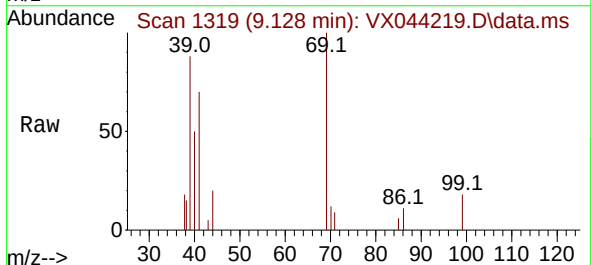
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

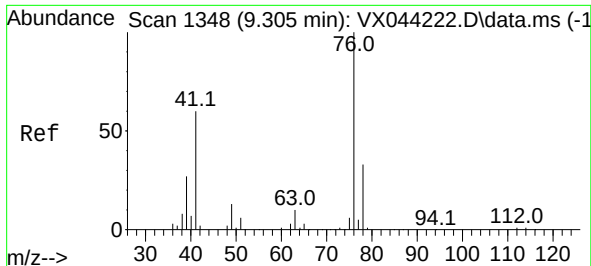
Tgt Ion:	97	Resp:	1710
Ion	Ratio	Lower	Upper
97	100		
83	59.0	65.3	97.9#
85	46.3	44.6	67.0
99	54.7	50.2	75.2



#56
Ethyl methacrylate
Concen: 0.917 ug/l
RT: 9.128 min Scan# 1319
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:	69	Resp:	2490
Ion	Ratio	Lower	Upper
69	100		
41	55.7	56.6	85.0#
39	53.1	37.4	56.0

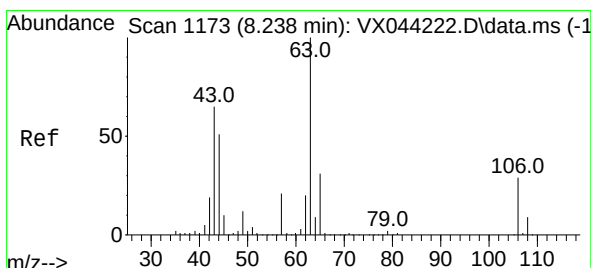
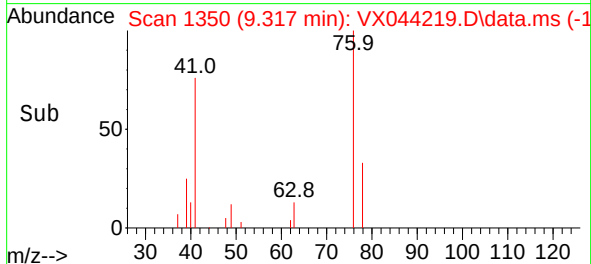
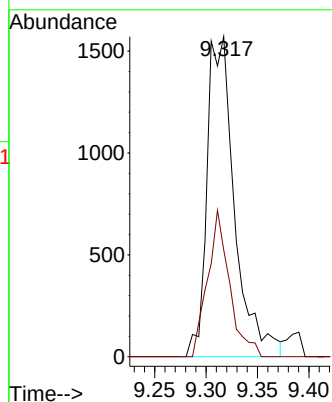
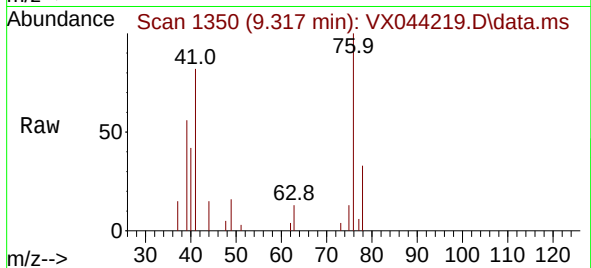




#57
1,3-Dichloropropane
Concen: 0.979 ug/l
RT: 9.317 min Scan# 11350
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

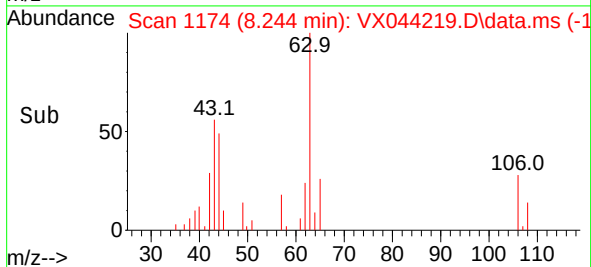
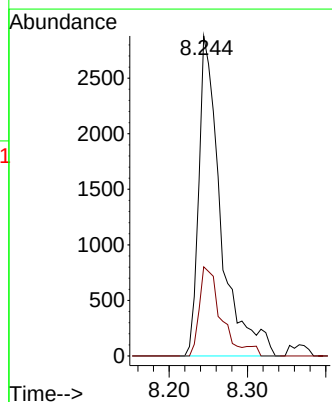
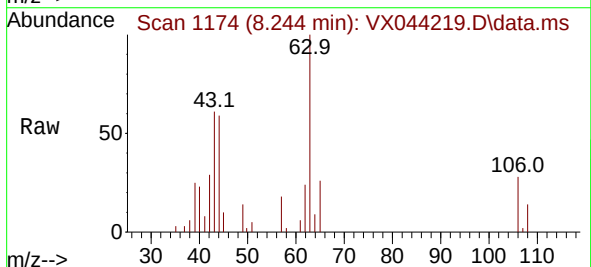
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

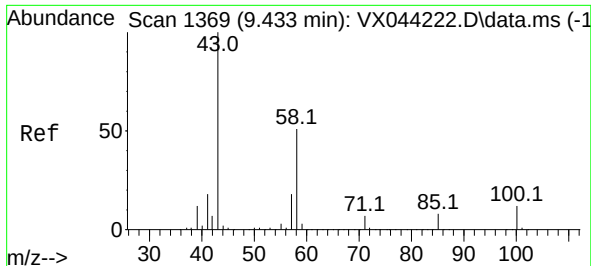
Tgt Ion: 76 Resp: 2929
Ion Ratio Lower Upper
76 100
78 36.5 26.5 39.7



#58
2-Chloroethyl Vinyl ether
Concen: 4.105 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 63 Resp: 5621
Ion Ratio Lower Upper
63 100
106 26.2 22.8 34.2

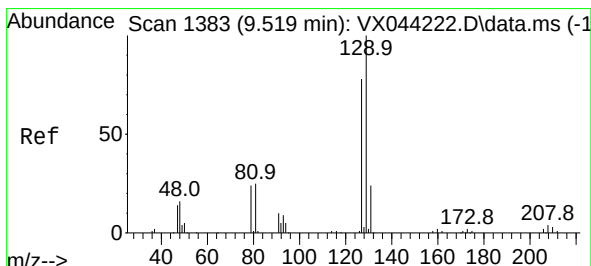
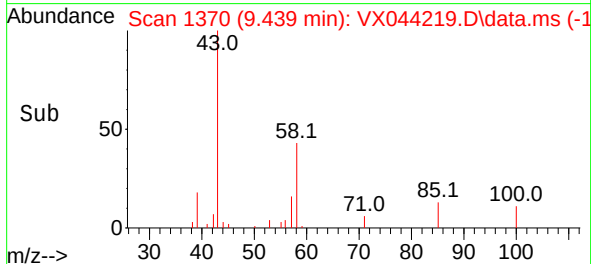
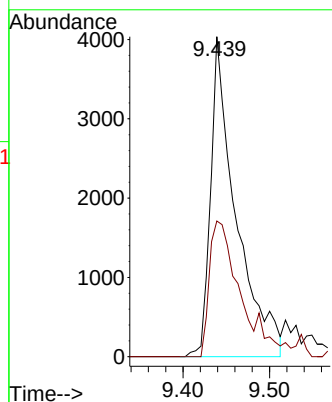
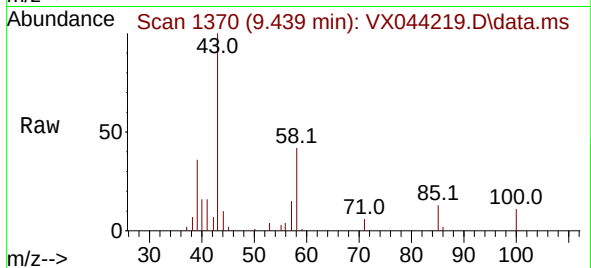




#59
2-Hexanone
Concen: 4.017 ug/l
RT: 9.439 min Scan# 1369
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

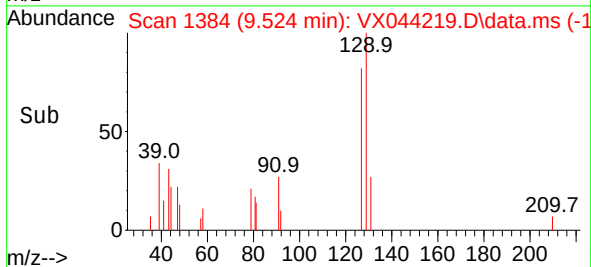
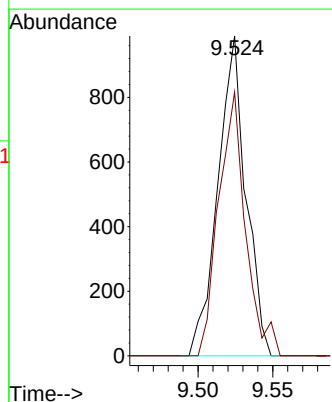
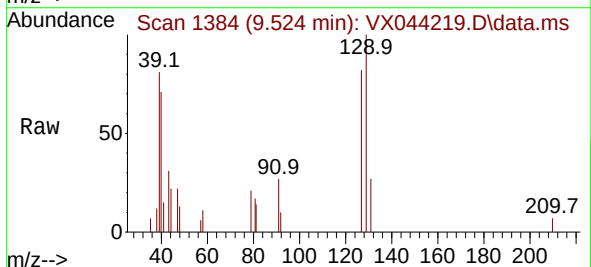
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

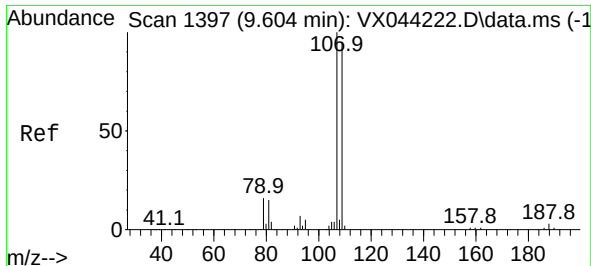
Tgt Ion: 43 Resp: 8199
Ion Ratio Lower Upper
43 100
58 52.5 25.7 77.0



#60
Dibromochloromethane
Concen: 1.953 ug/l
RT: 9.524 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 129 Resp: 1289
Ion Ratio Lower Upper
129 100
127 79.2 38.5 115.3





#61

1,2-Dibromoethane

Concen: 0.877 ug/l

RT: 9.610 min Scan# 14

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

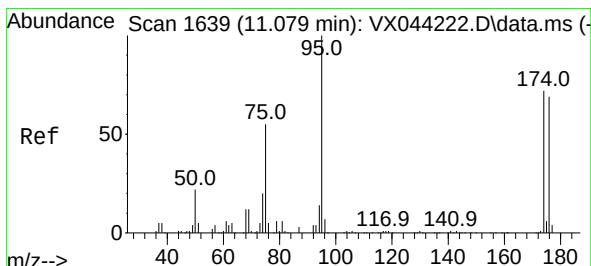
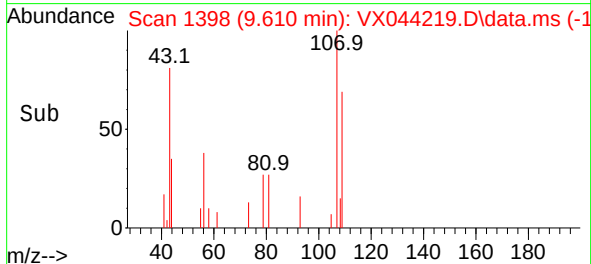
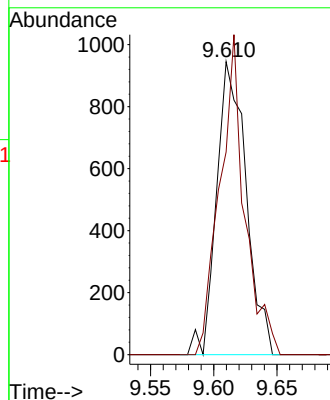
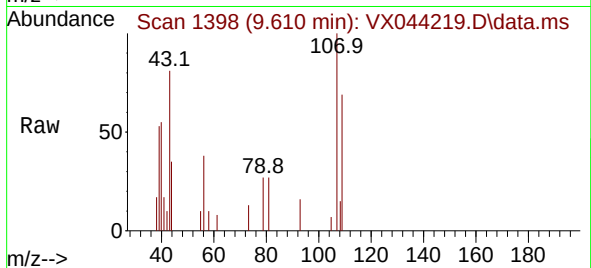
VSTDICC001

Tgt Ion:107 Resp: 1535

Ion Ratio Lower Upper

107 100

109 91.3 77.0 115.4



#62

4-Bromofluorobenzene

Concen: 1.158 ug/l

RT: 11.091 min Scan# 1641

Delta R.T. 0.012 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

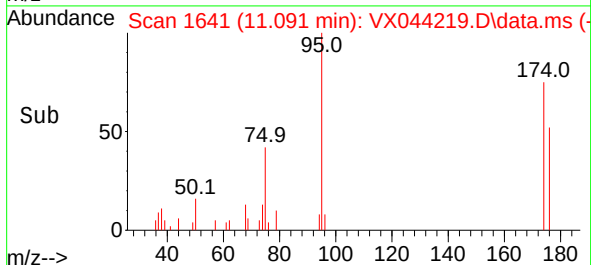
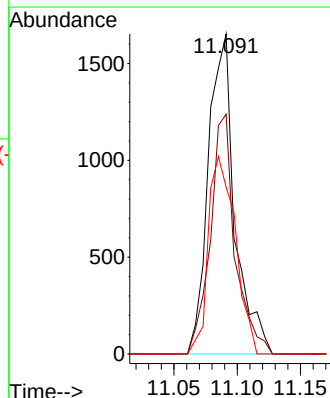
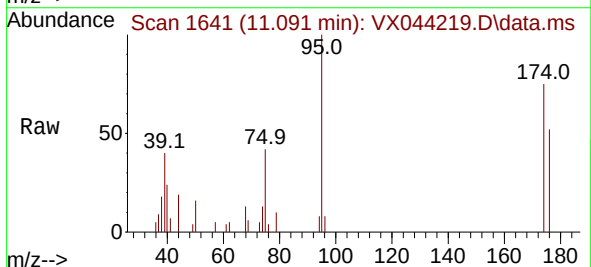
Tgt Ion: 95 Resp: 2398

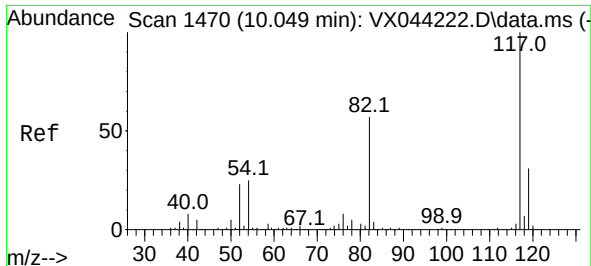
Ion Ratio Lower Upper

95 100

174 70.4 0.0 145.8

176 63.4 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

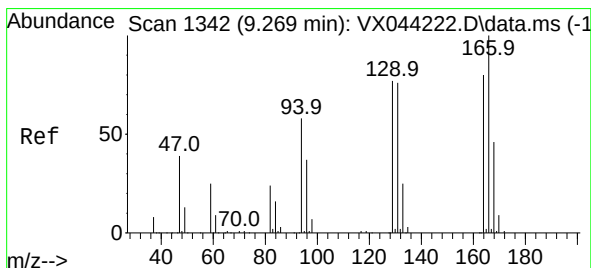
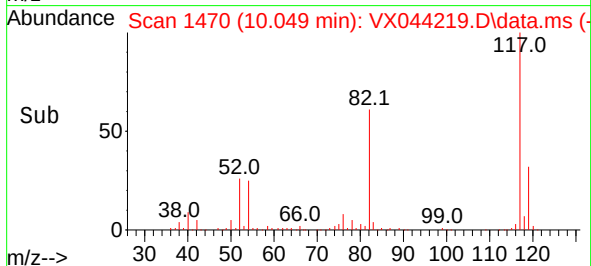
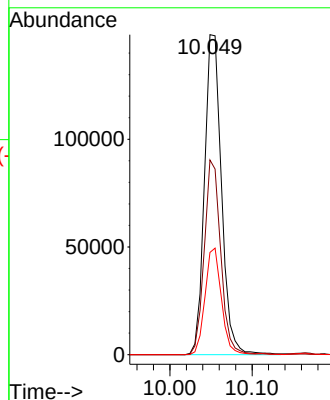
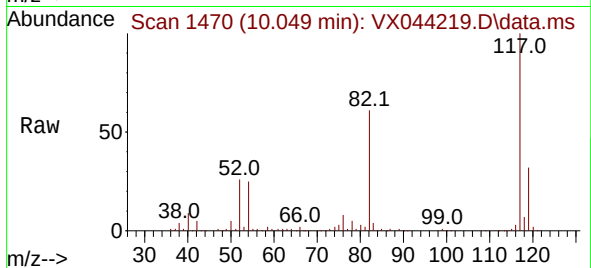
Tgt Ion:117 Resp: 213862

Ion Ratio Lower Upper

117 100

82 60.9 45.8 68.8

119 32.0 25.0 37.4



#64

Tetrachloroethene

Concen: 1.082 ug/l

RT: 9.274 min Scan# 1343

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Tgt Ion:164 Resp: 1536

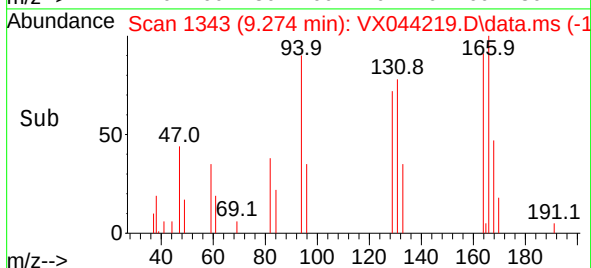
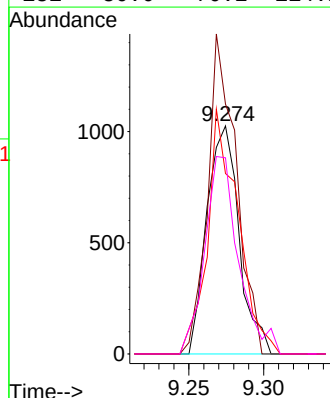
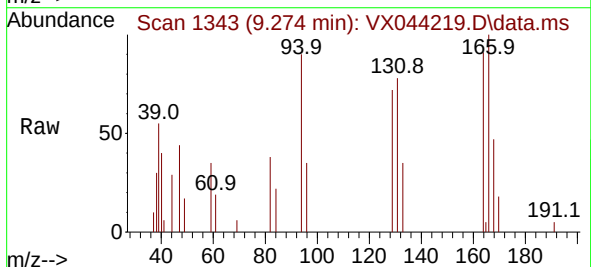
Ion Ratio Lower Upper

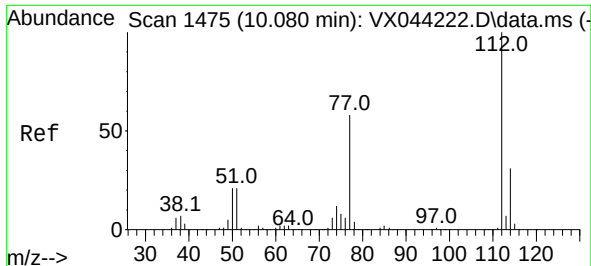
164 100

166 109.7 100.4 150.6

129 79.2 77.2 115.8

131 86.0 76.2 114.2





#65

Chlorobenzene

Concen: 1.055 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

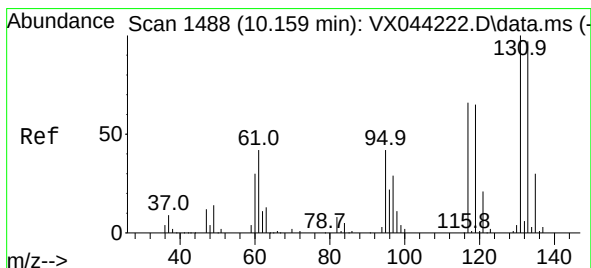
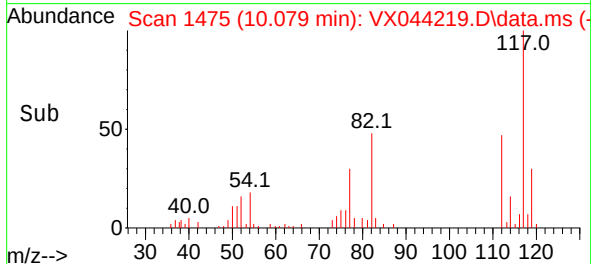
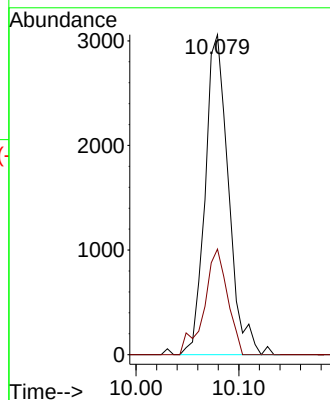
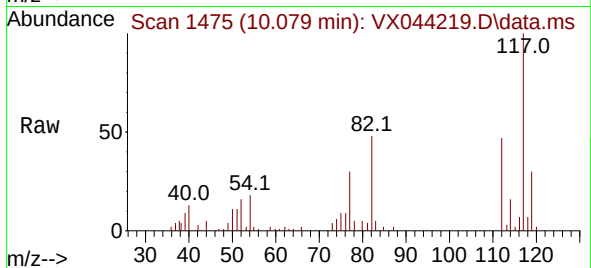
VSTDIC001

Tgt Ion:112 Resp: 4835

Ion Ratio Lower Upper

112 100

114 33.0 25.0 37.6



#66

1,1,1,2-Tetrachloroethane

Concen: 0.875 ug/l

RT: 10.158 min Scan# 1488

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

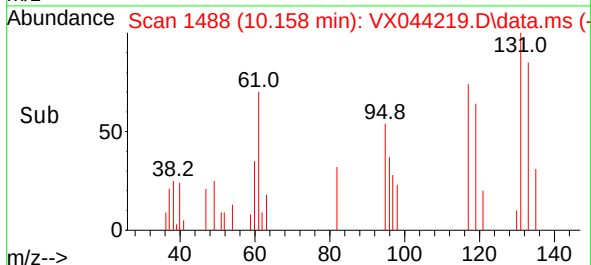
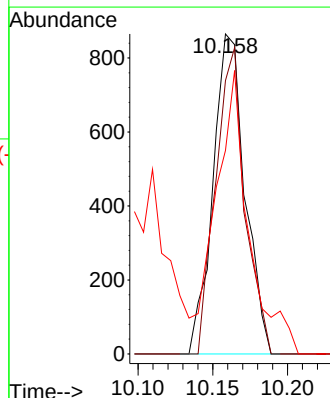
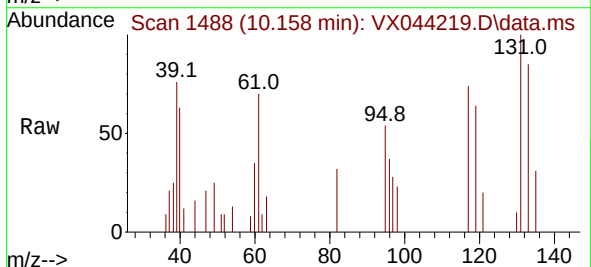
Tgt Ion:131 Resp: 1288

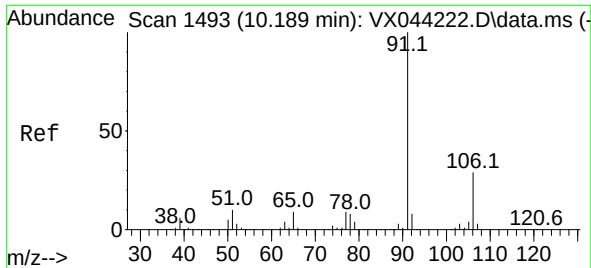
Ion Ratio Lower Upper

131 100

133 87.3 47.3 141.8

119 0.0 31.6 95.0#





#67

Ethyl Benzene

Concen: 1.001 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

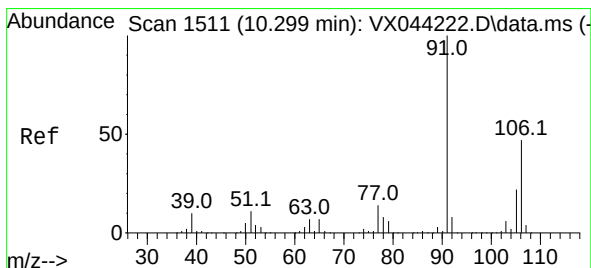
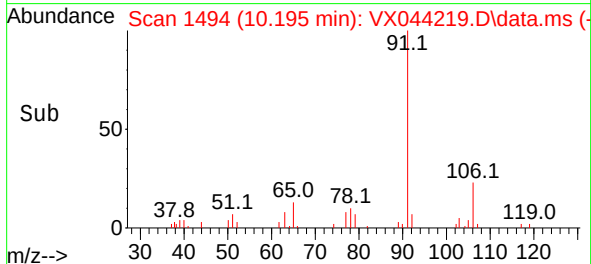
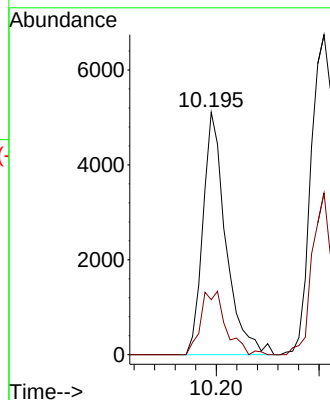
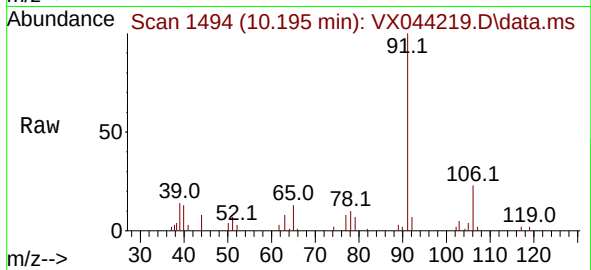
VSTDIC001

Tgt Ion: 91 Resp: 7924

Ion Ratio Lower Upper

91 100

106 22.7 23.5 35.3#



#68

m/p-Xylenes

Concen: 1.922 ug/l

RT: 10.305 min Scan# 1512

Delta R.T. 0.006 min

Lab File: VX044219.D

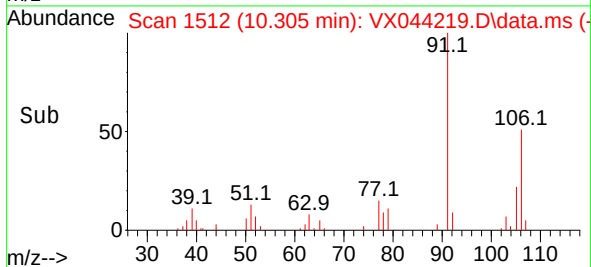
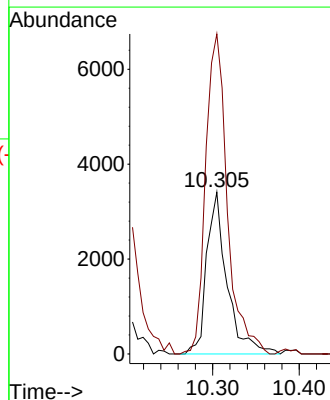
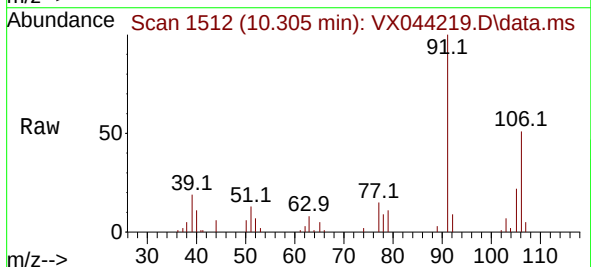
Acq: 11 Dec 2024 10:41

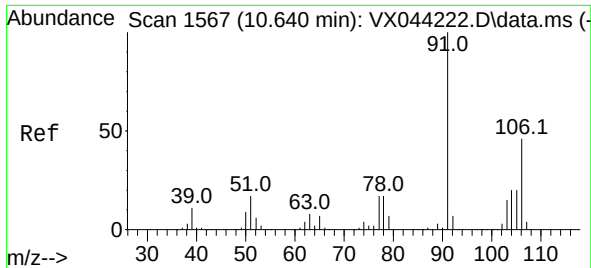
Tgt Ion:106 Resp: 5583

Ion Ratio Lower Upper

106 100

91 210.1 170.2 255.2

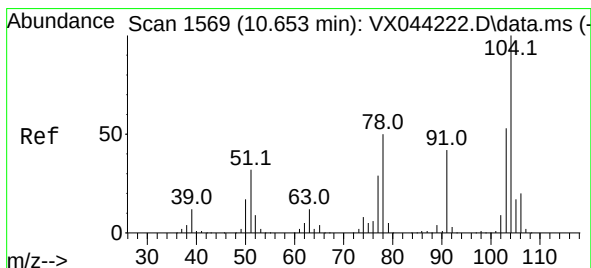
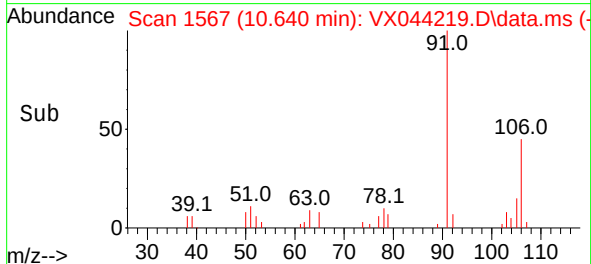
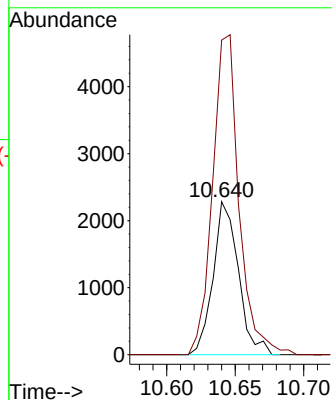
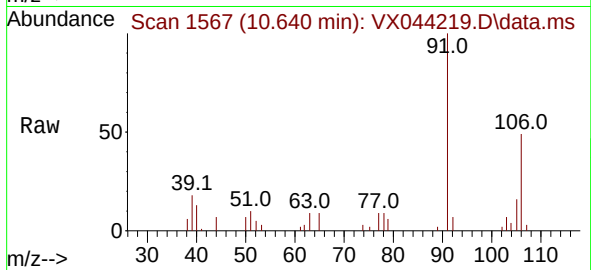




#69
o-Xylene
Concen: 0.998 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

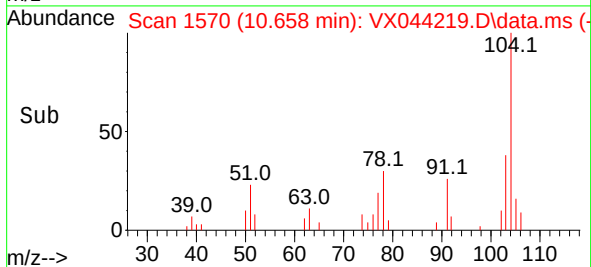
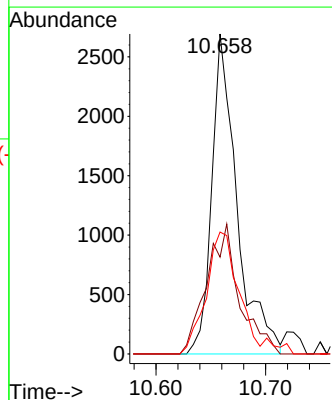
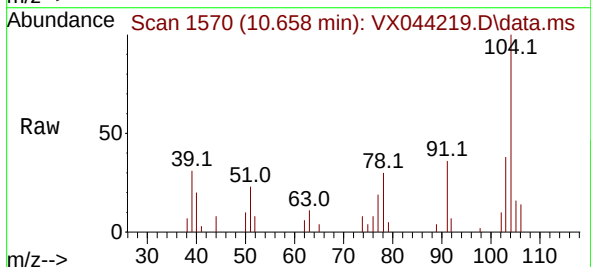
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

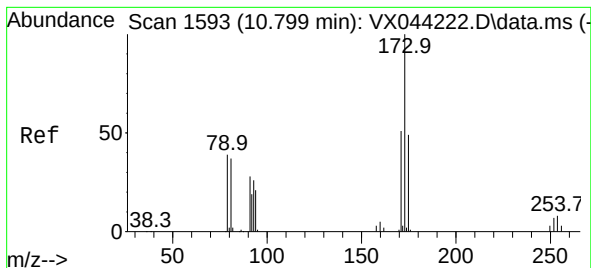
Tgt Ion:106 Resp: 2933
Ion Ratio Lower Upper
106 100
91 218.2 112.3 337.0



#70
Styrene
Concen: 0.914 ug/l
RT: 10.658 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:104 Resp: 4306
Ion Ratio Lower Upper
104 100
78 52.8 44.6 67.0
103 51.2 45.4 68.0





#71

Bromoform

Concen: 1.847 ug/l

RT: 10.805 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

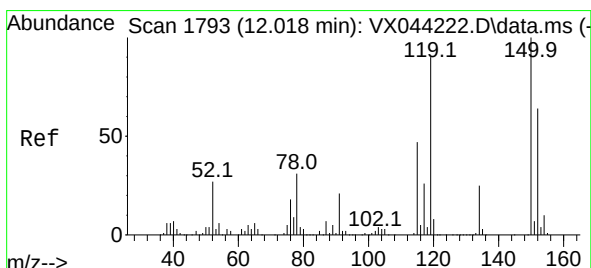
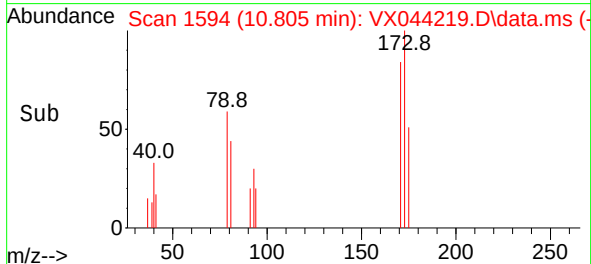
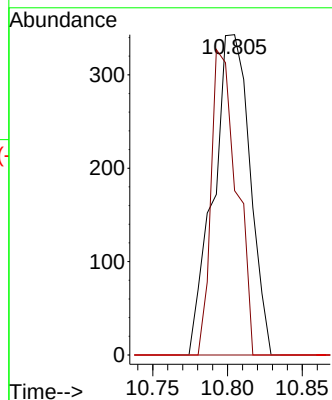
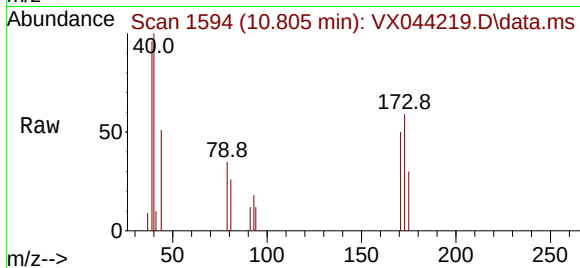
Tgt Ion:173 Resp: 584

Ion Ratio Lower Upper

173 100

175 66.1 23.8 71.4

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

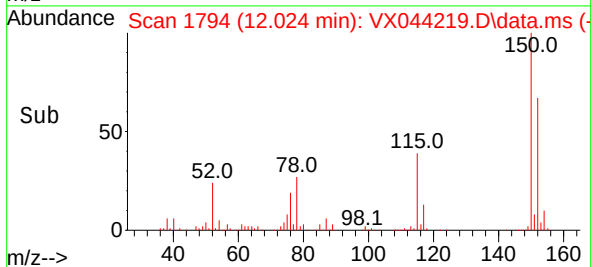
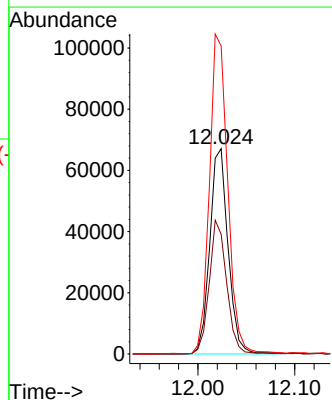
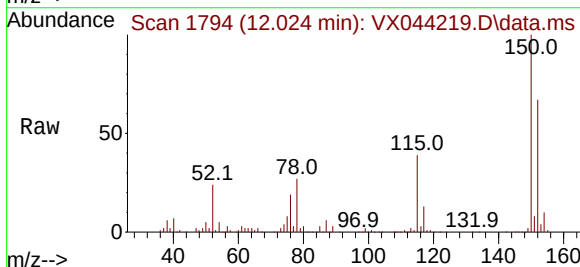
Tgt Ion:152 Resp: 88334

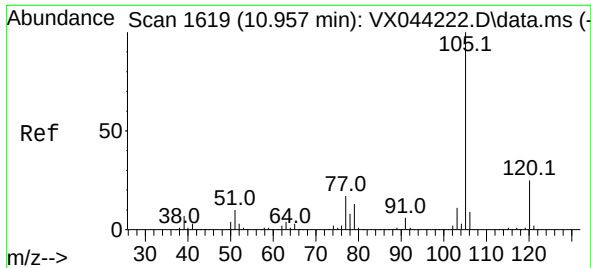
Ion Ratio Lower Upper

152 100

115 62.1 44.5 133.3

150 155.1 0.0 353.8

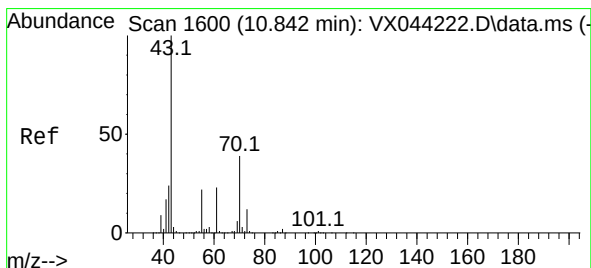
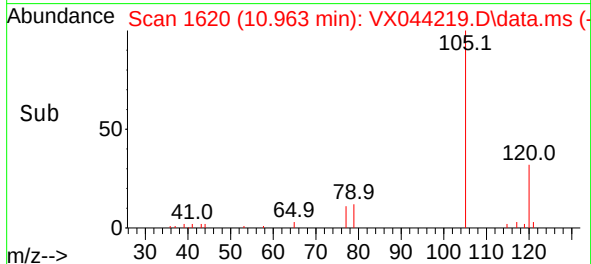
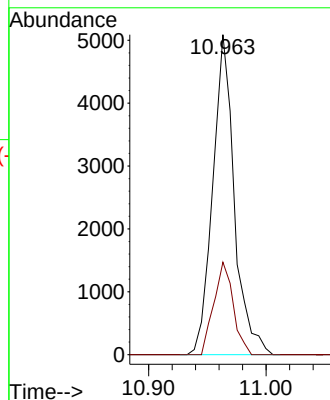
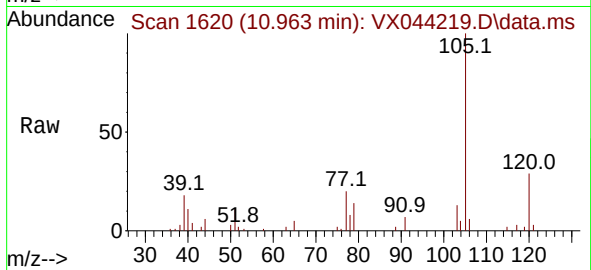




#73
Isopropylbenzene
Concen: 0.957 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

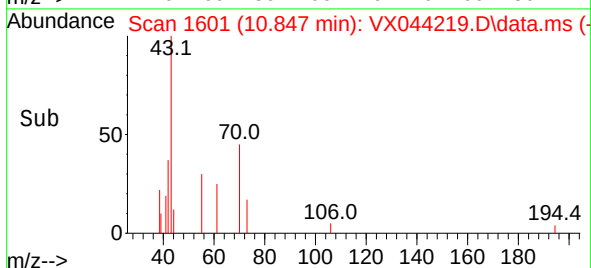
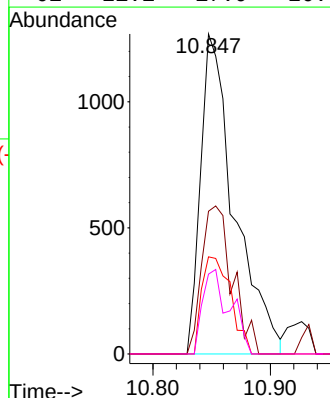
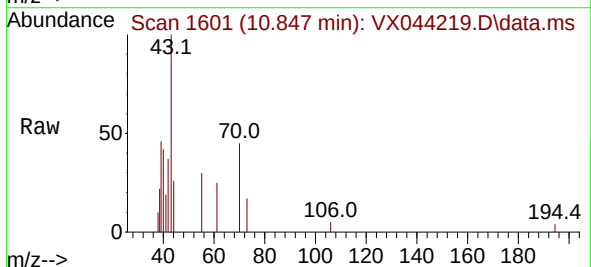
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

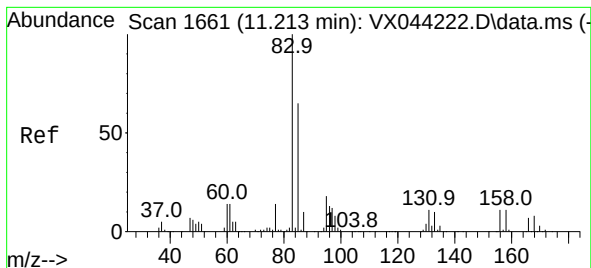
Tgt Ion:105 Resp: 6474
Ion Ratio Lower Upper
105 100
120 26.0 13.1 39.3



#74
N-ethyl acetate
Concen: 0.811 ug/l
RT: 10.847 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 2536
Ion Ratio Lower Upper
43 100
70 41.9 31.9 47.9
55 26.0 17.9 26.9
61 21.1 17.9 26.9





#75

1,1,2,2-Tetrachloroethane

Concen: 1.061 ug/l

RT: 11.219 min Scan# 1662

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

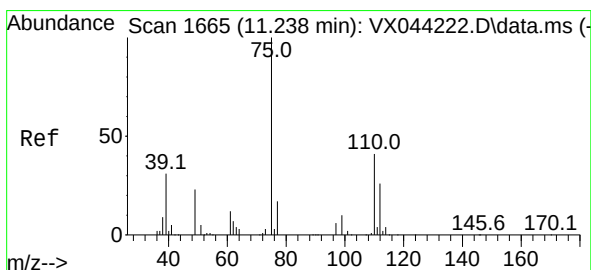
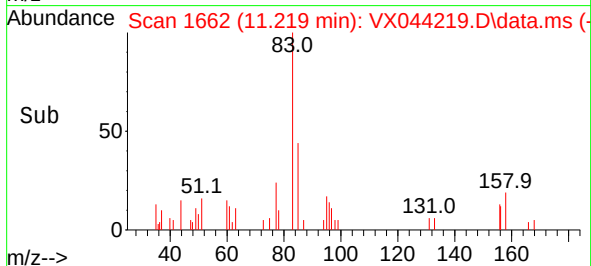
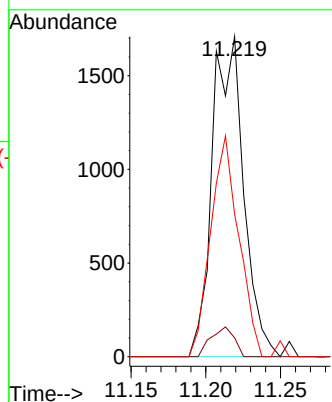
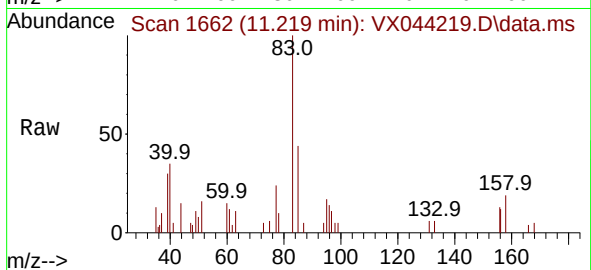
Tgt Ion: 83 Resp: 2491

Ion Ratio Lower Upper

83 100

131 6.9 5.1 15.4

85 61.8 32.5 97.4



#76

1,2,3-Trichloropropane

Concen: 1.402 ug/l

RT: 11.244 min Scan# 1666

Delta R.T. 0.006 min

Lab File: VX044219.D

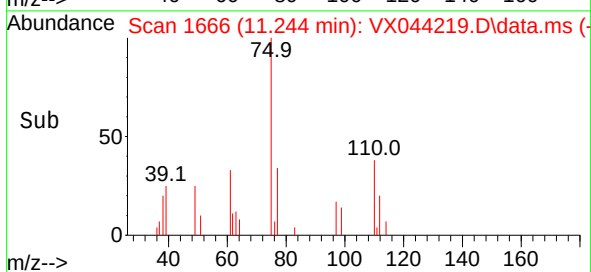
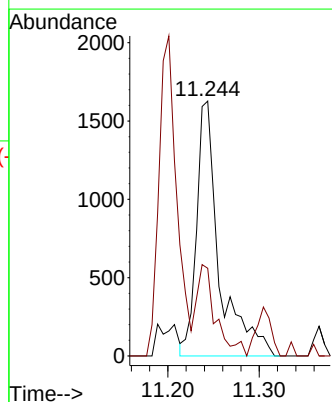
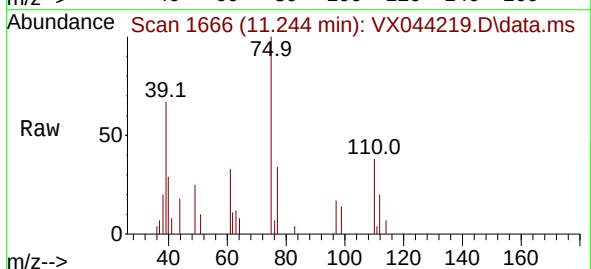
Acq: 11 Dec 2024 10:41

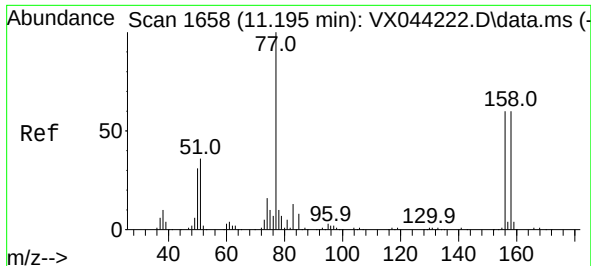
Tgt Ion: 75 Resp: 2810

Ion Ratio Lower Upper

75 100

77 29.9 20.9 62.7

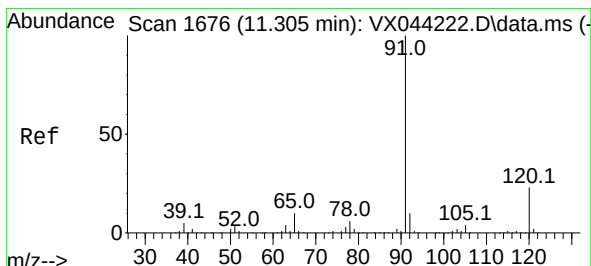
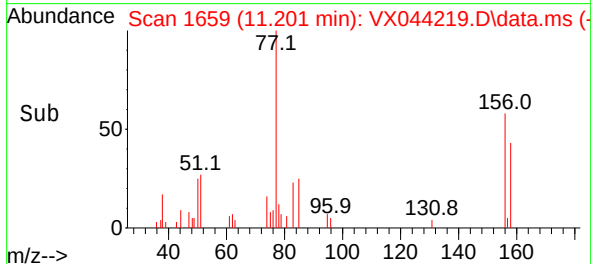
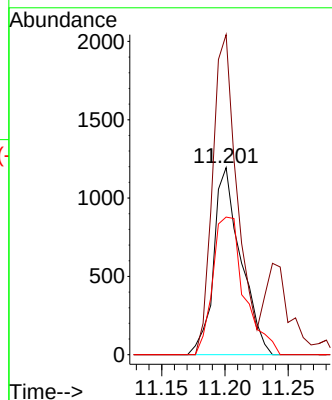
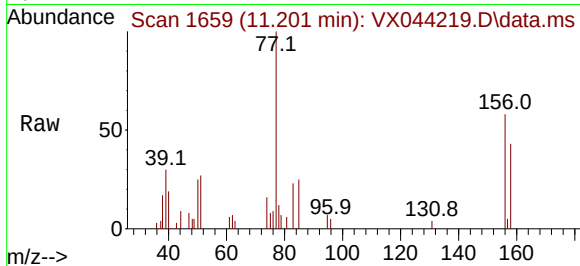




#77
Bromobenzene
Concen: 1.087 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

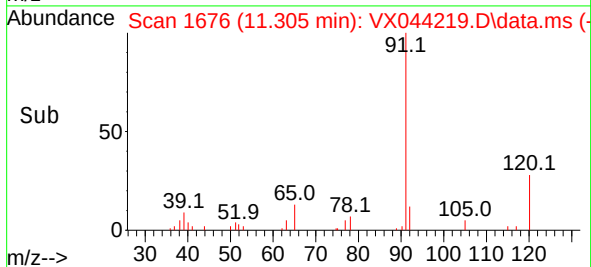
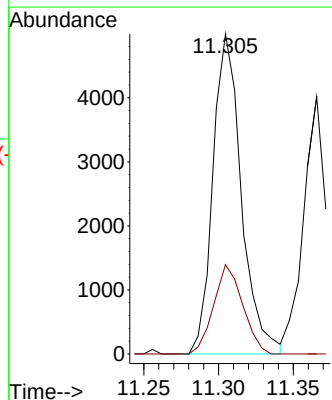
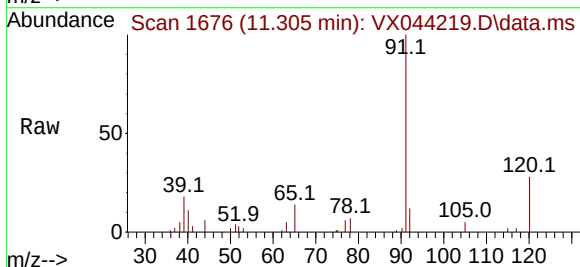
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

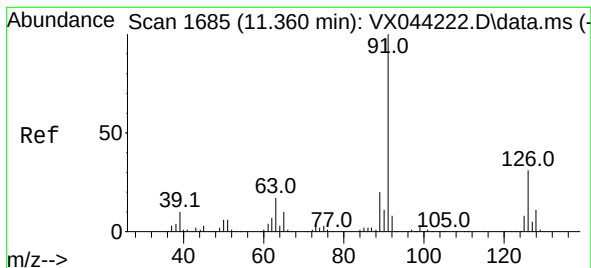
Tgt Ion:156 Resp: 1783
Ion Ratio Lower Upper
156 100
77 155.1 82.6 247.8
158 85.2 48.8 146.4



#78
n-propylbenzene
Concen: 0.884 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 91 Resp: 6606
Ion Ratio Lower Upper
91 100
120 28.4 11.0 33.0





#79

2-Chlorotoluene

Concen: 1.075 ug/l

RT: 11.366 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

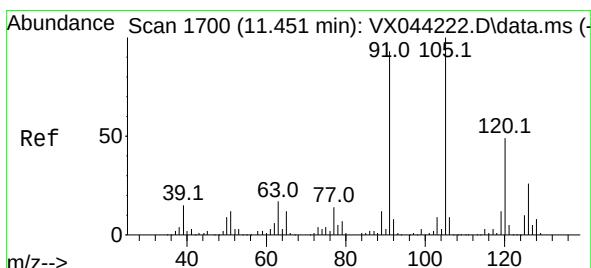
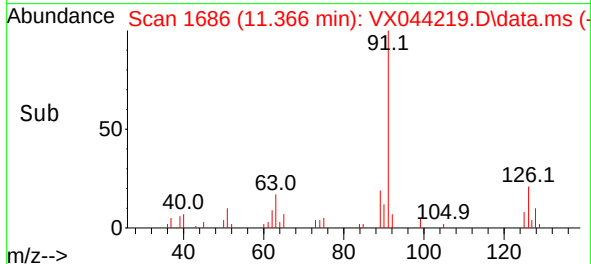
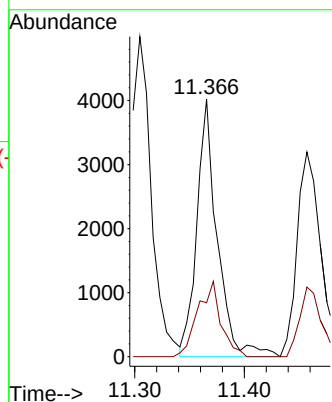
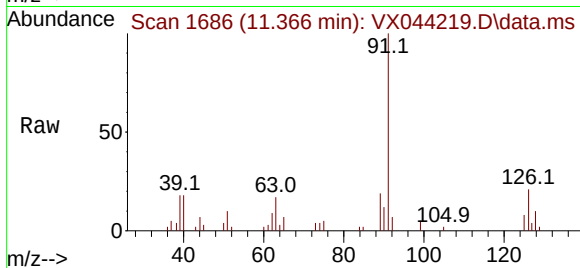
VSTDIC001

Tgt Ion: 91 Resp: 5194

Ion Ratio Lower Upper

91 100

126 33.2 16.4 49.1



#80

1,3,5-Trimethylbenzene

Concen: 0.966 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX044219.D

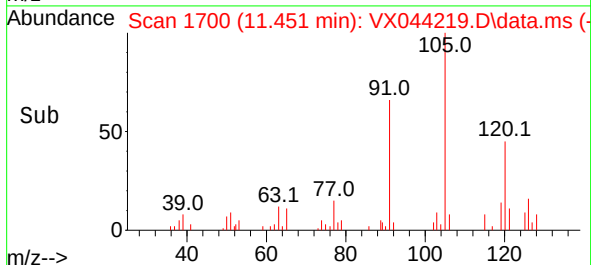
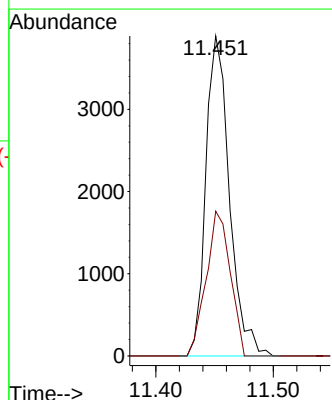
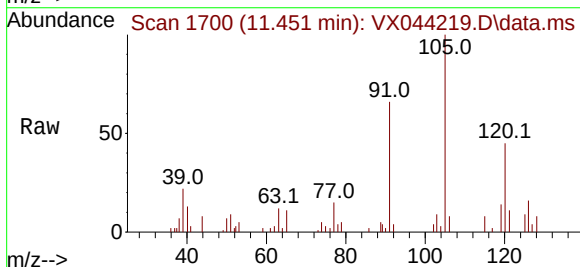
Acq: 11 Dec 2024 10:41

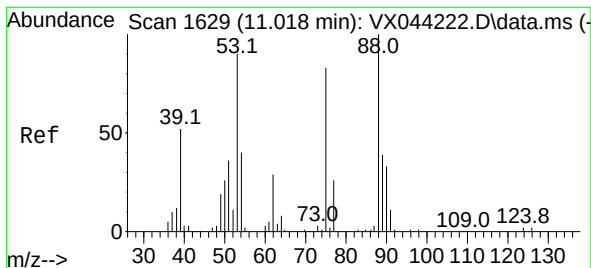
Tgt Ion: 105 Resp: 5417

Ion Ratio Lower Upper

105 100

120 46.2 23.8 71.4

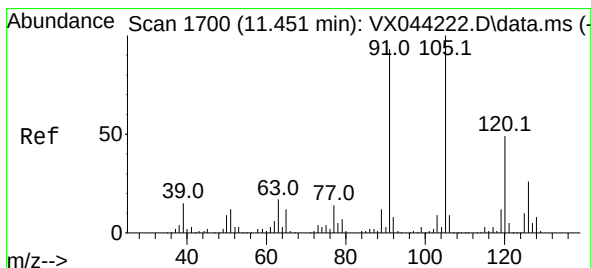
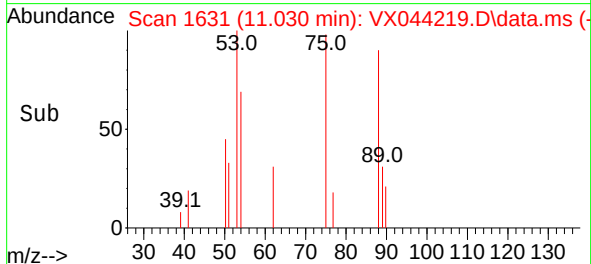
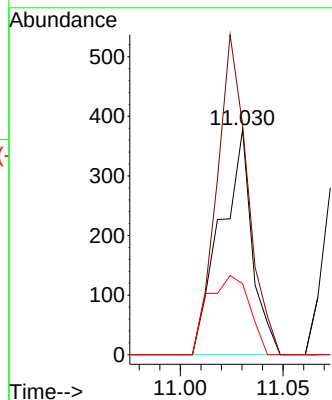
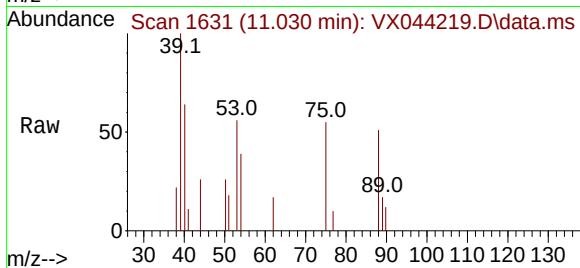




#81
trans-1,4-Dichloro-2-butene
Concen: 6.098 ug/l
RT: 11.030 min Scan# 1631
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

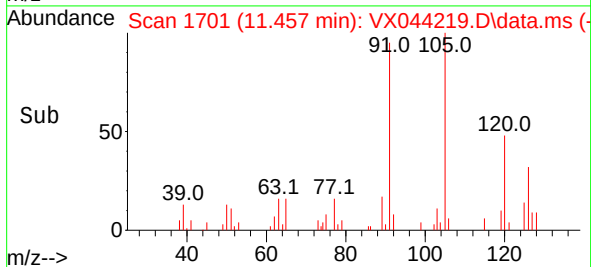
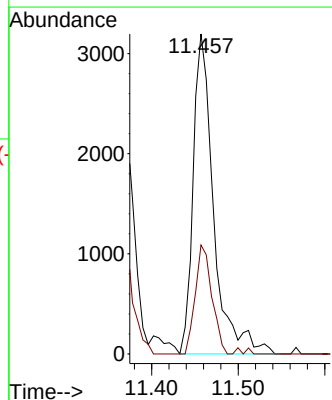
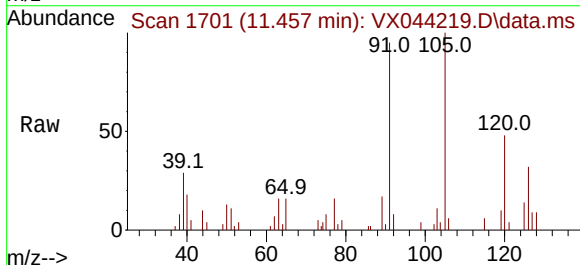
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

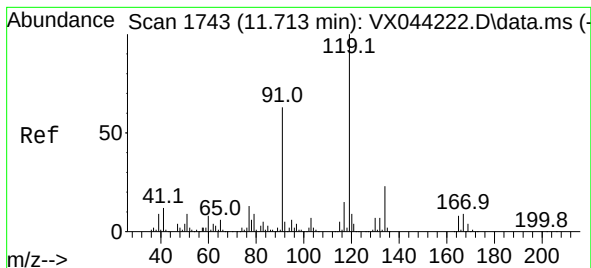
Tgt Ion:	75	Resp:	402
Ion	Ratio	Lower	Upper
75	100		
53	139.1	93.6	140.4
89	46.8	37.3	55.9



#82
4-Chlorotoluene
Concen: 0.978 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:	91	Resp:	5236
Ion	Ratio	Lower	Upper
91	100		
126	27.7	14.5	43.5





#83

tert-Butylbenzene

Concen: 1.011 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

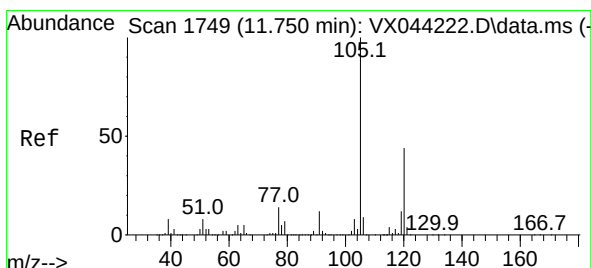
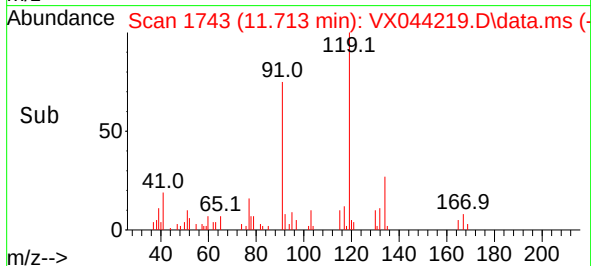
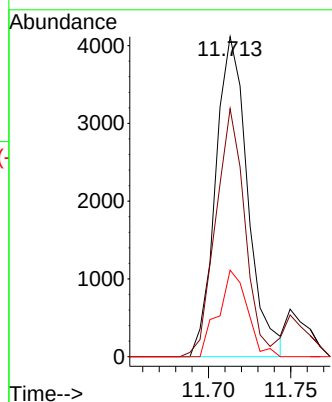
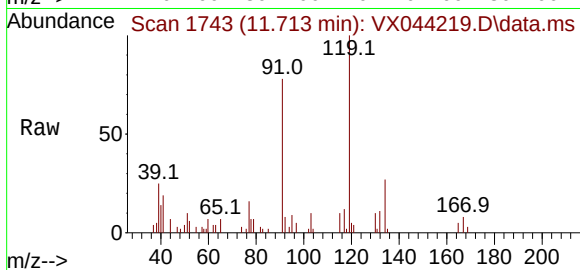
Tgt Ion:119 Resp: 5601

Ion Ratio Lower Upper

119 100

91 70.2 30.9 92.5

134 24.5 11.5 34.4



#84

1,2,4-Trimethylbenzene

Concen: 0.866 ug/l

RT: 11.756 min Scan# 1750

Delta R.T. 0.006 min

Lab File: VX044219.D

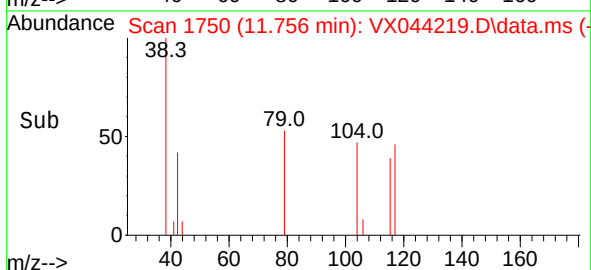
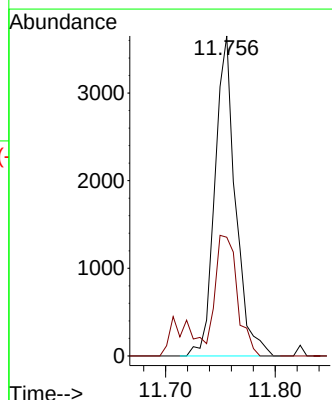
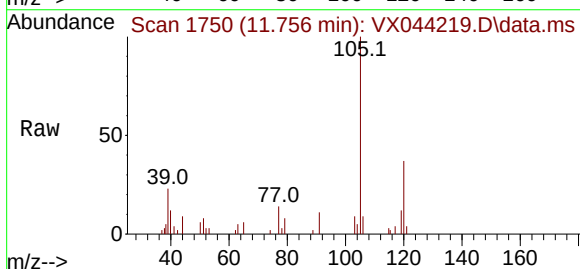
Acq: 11 Dec 2024 10:41

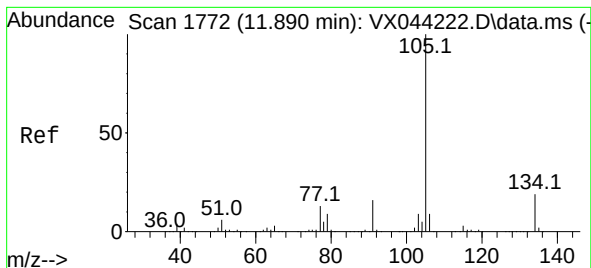
Tgt Ion:105 Resp: 4769

Ion Ratio Lower Upper

105 100

120 40.0 21.7 65.1

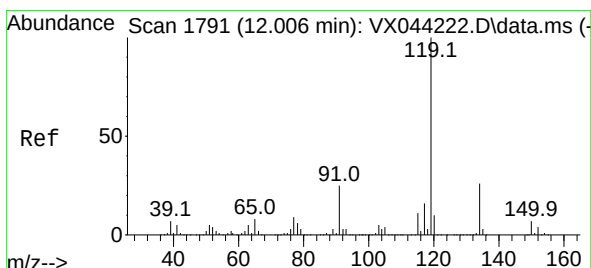
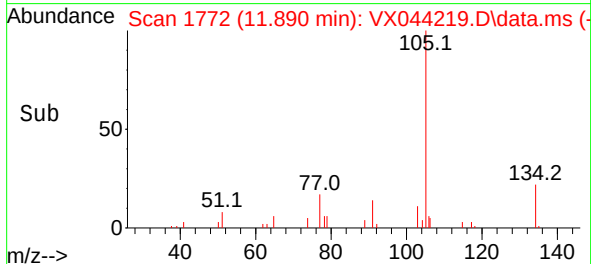
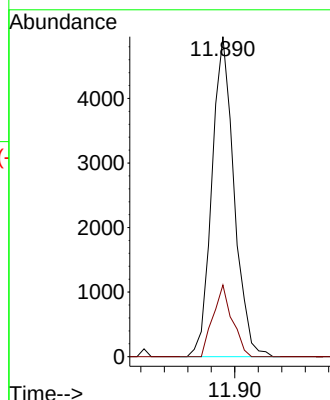
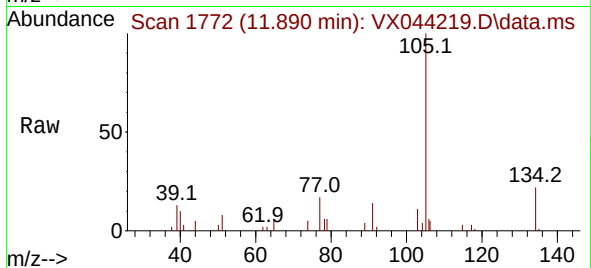




#85
 sec-Butylbenzene
 Concen: 0.966 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. -0.000 min
 Lab File: VX044219.D
 Acq: 11 Dec 2024 10:41

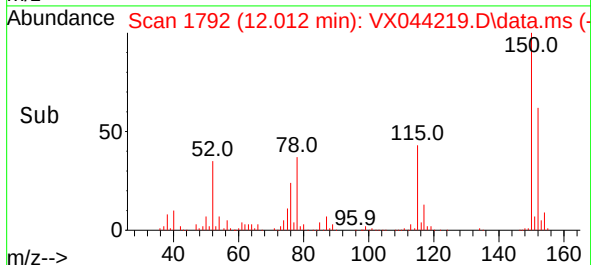
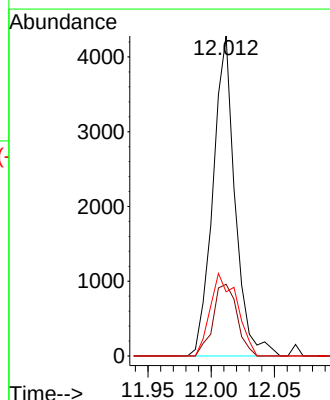
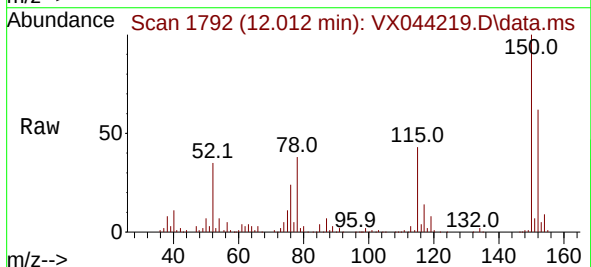
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC001

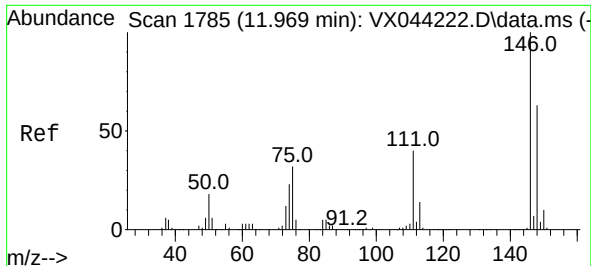
Tgt Ion:105 Resp: 6500
 Ion Ratio Lower Upper
 105 100
 134 19.3 9.8 29.4



#86
 p-Isopropyltoluene
 Concen: 0.930 ug/l
 RT: 12.012 min Scan# 1792
 Delta R.T. 0.006 min
 Lab File: VX044219.D
 Acq: 11 Dec 2024 10:41

Tgt Ion:119 Resp: 5210
 Ion Ratio Lower Upper
 119 100
 134 24.2 12.8 38.4
 91 31.2 13.0 39.0





#87

1,3-Dichlorobenzene

Concen: 0.937 ug/l

RT: 11.975 min Scan# 1786

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

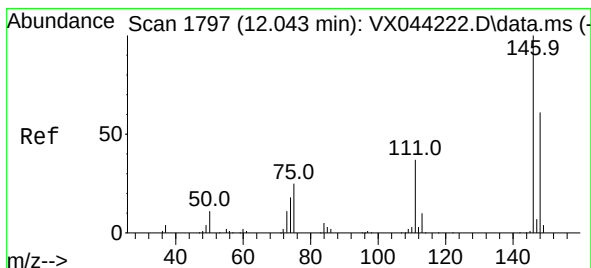
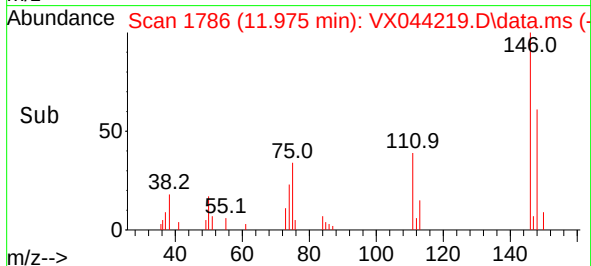
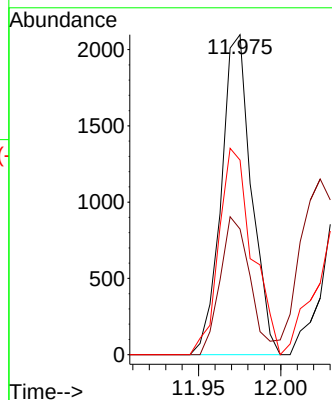
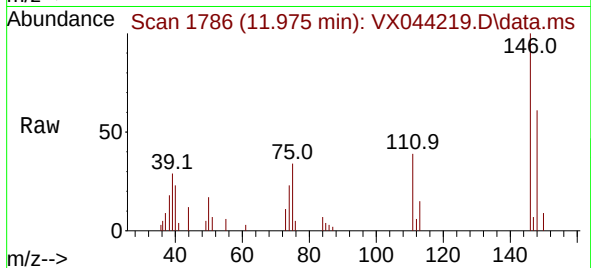
Tgt Ion:146 Resp: 2684

Ion Ratio Lower Upper

146 100

111 42.5 21.4 64.2

148 71.6 31.7 95.1



#88

1,4-Dichlorobenzene

Concen: 0.912 ug/l

RT: 11.975 min Scan# 1786

Delta R.T. -0.067 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

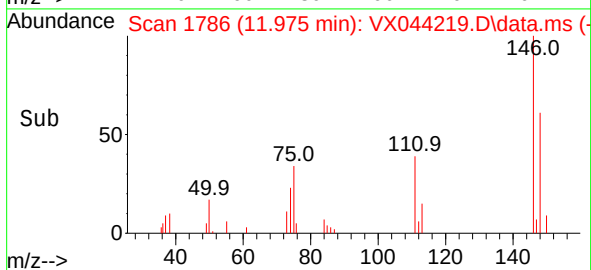
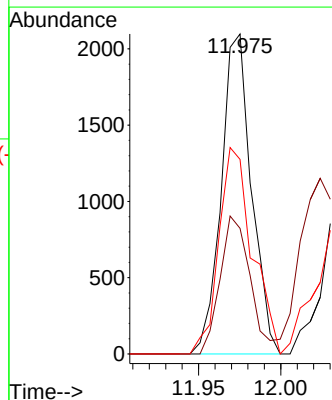
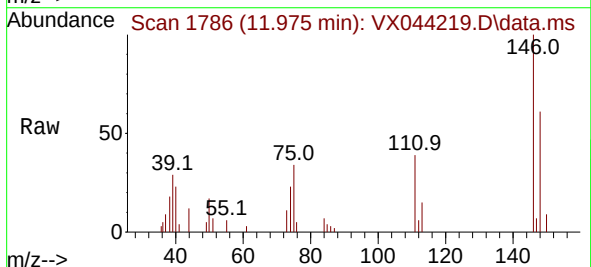
Tgt Ion:146 Resp: 2684

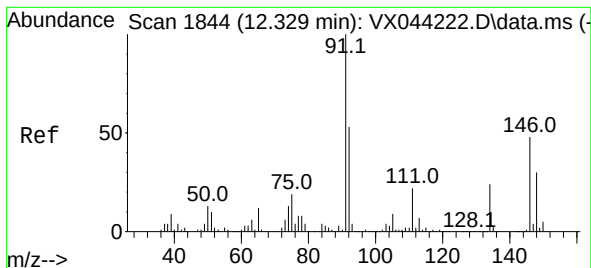
Ion Ratio Lower Upper

146 100

111 42.5 21.0 63.0

148 71.6 32.3 96.8

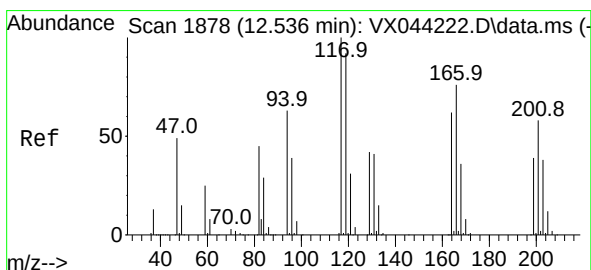
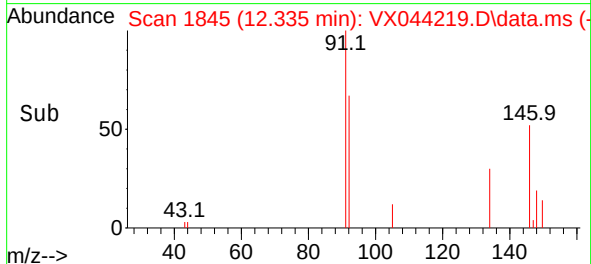
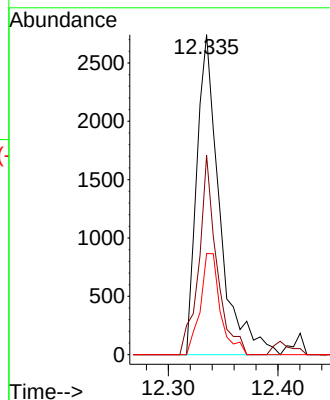
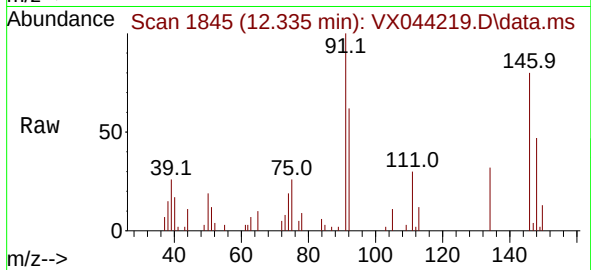




#89
n-Butylbenzene
Concen: 0.844 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

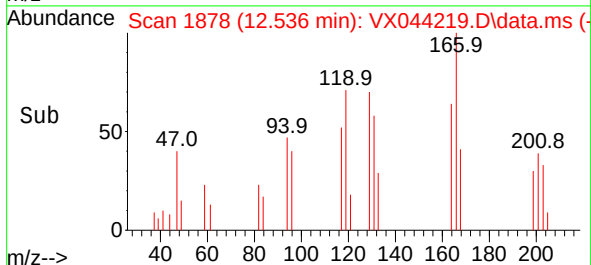
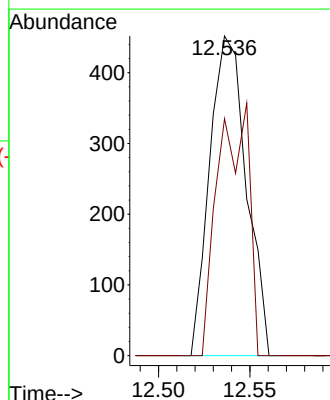
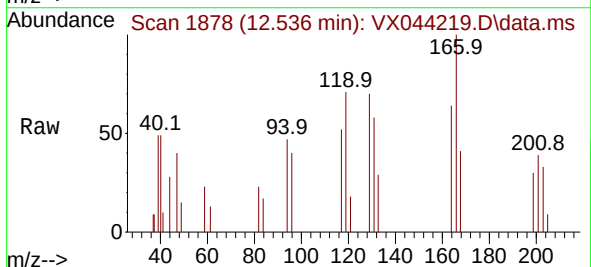
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

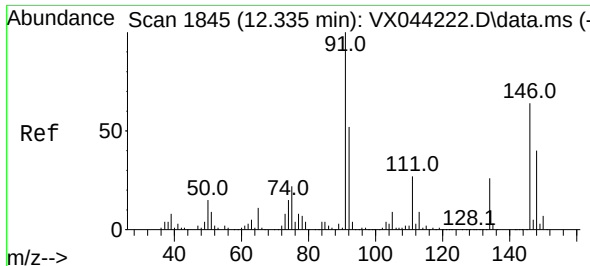
Tgt Ion: 91 Resp: 3973
Ion Ratio Lower Upper
91 100
92 48.5 26.6 79.7
134 27.8 12.6 37.8



#90
Hexachloroethane
Concen: 0.773 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 117 Resp: 632
Ion Ratio Lower Upper
117 100
201 66.9 31.4 94.2





#91

1,2-Dichlorobenzene

Concen: 1.036 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

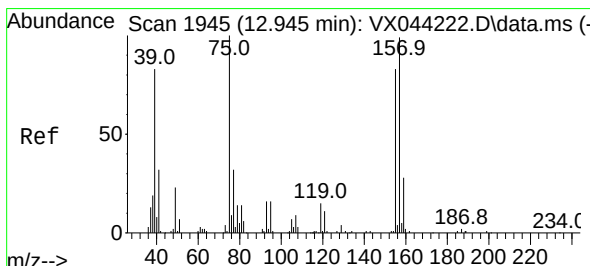
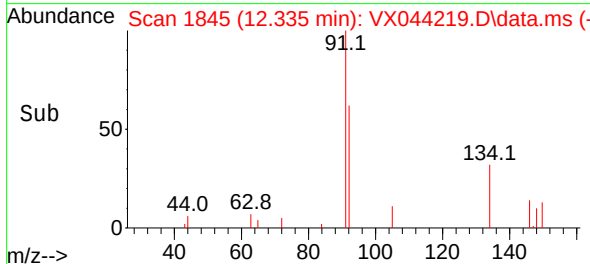
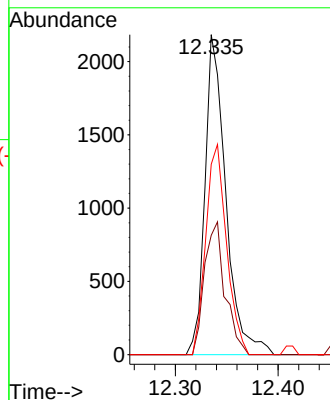
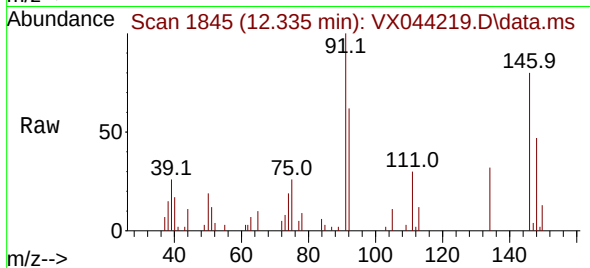
Tgt Ion:146 Resp: 3082

Ion Ratio Lower Upper

146 100

111 41.0 21.4 64.3

148 65.4 31.6 95.0



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.860 ug/l

RT: 12.945 min Scan# 1945

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

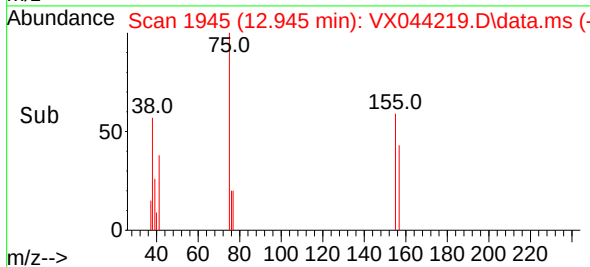
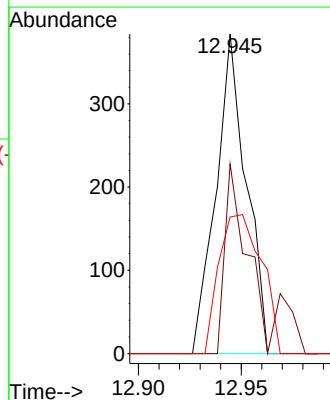
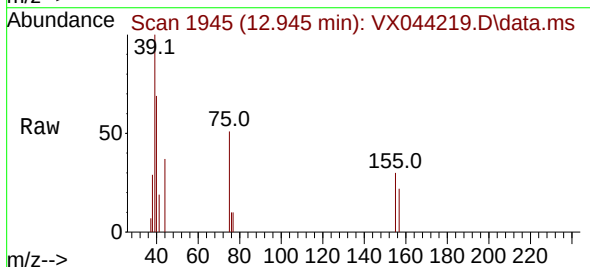
Tgt Ion: 75 Resp: 392

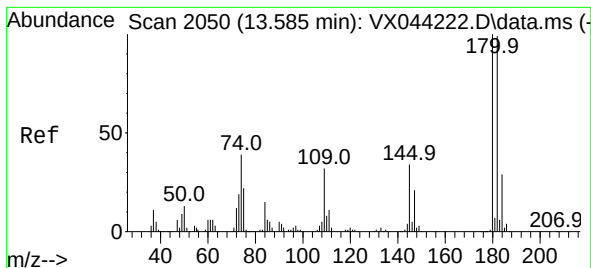
Ion Ratio Lower Upper

75 100

155 54.6 38.1 114.3

157 61.5 47.2 141.6

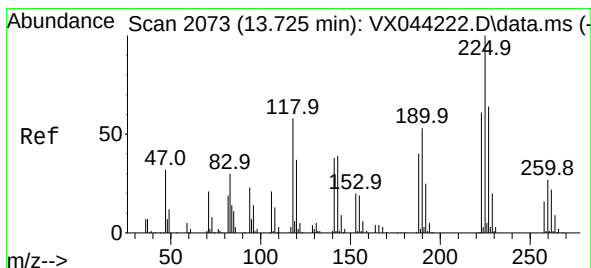
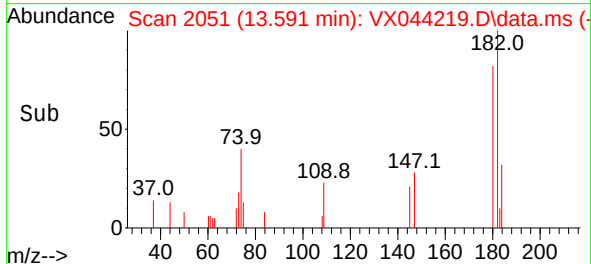
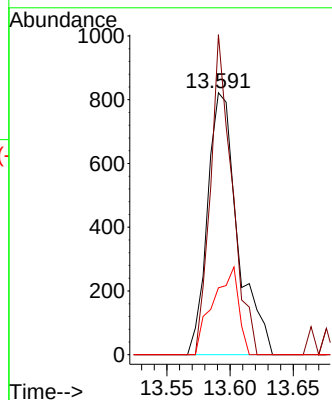
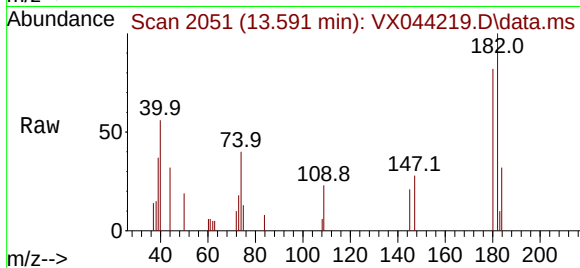




#93
1,2,4-Trichlorobenzene
Concen: 0.835 ug/l
RT: 13.591 min Scan# 2050
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

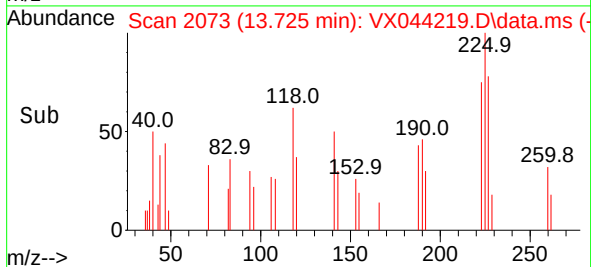
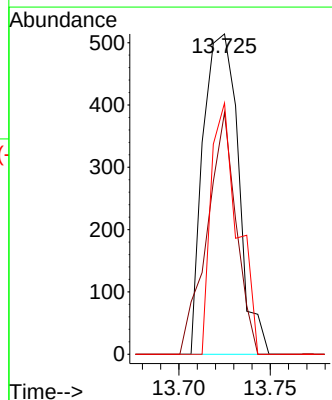
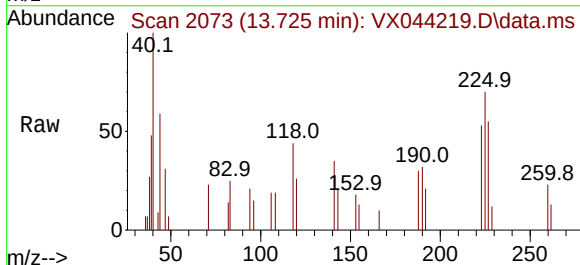
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

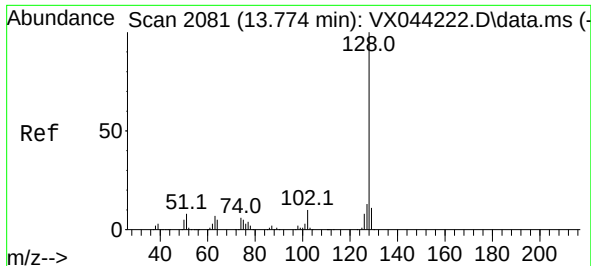
Tgt Ion:180 Resp: 1361
Ion Ratio Lower Upper
180 100
182 88.0 48.0 144.2
145 28.4 16.6 49.7



#94
Hexachlorobutadiene
Concen: 1.051 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:225 Resp: 689
Ion Ratio Lower Upper
225 100
223 62.4 30.8 92.4
227 59.4 32.1 96.3





#95

Naphthalene

Concen: 0.812 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

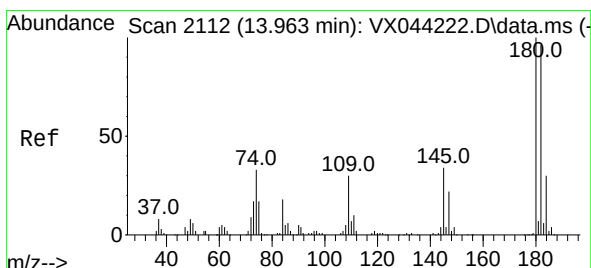
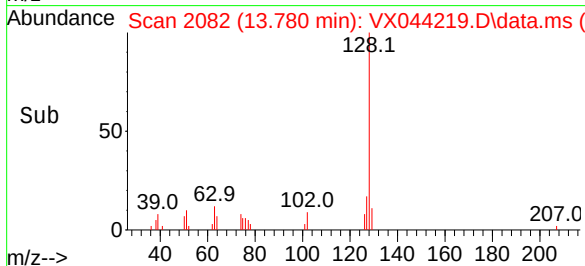
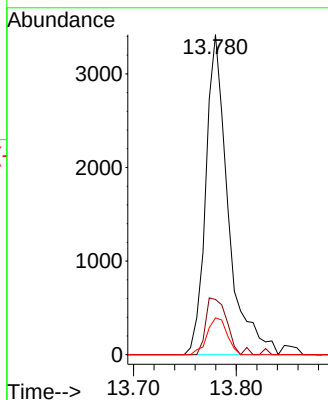
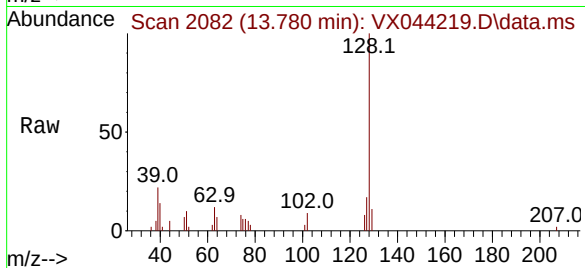
Tgt Ion:128 Resp: 5167

Ion Ratio Lower Upper

128 100

127 16.8 10.5 15.7#

129 10.2 9.0 13.4



#96

1,2,3-Trichlorobenzene

Concen: 0.873 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. -0.000 min

Lab File: VX044219.D

Acq: 11 Dec 2024 10:41

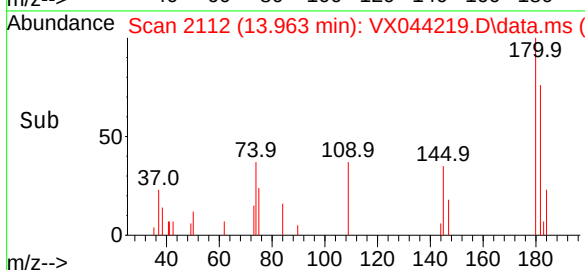
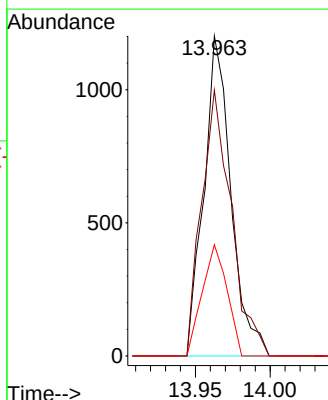
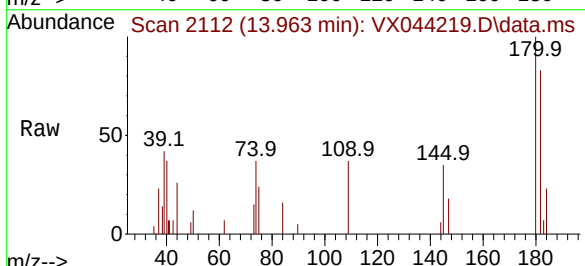
Tgt Ion:180 Resp: 1509

Ion Ratio Lower Upper

180 100

182 91.3 48.0 144.0

145 31.9 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044220.D
Acq On : 11 Dec 2024 11:27
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	139609	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	258881	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	217783	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	95175	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.958	65	13043	5.328	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	10.660%#
35) Dibromofluoromethane	5.385	113	9145	5.100	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	10.200%#
50) Toluene-d8	8.647	98	29732	4.915	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	9.840%#
62) 4-Bromofluorobenzene	11.079	95	10101	4.779	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	9.560%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	10452	4.842	ug/l	91
3) Chloromethane	1.294	50	10429	5.052	ug/l	95
4) Vinyl Chloride	1.374	62	11031	5.129	ug/l	98
5) Bromomethane	1.593	94	8237	5.399	ug/l	92
6) Chloroethane	1.660	64	7253	5.416	ug/l	96
7) Trichlorofluoromethane	1.868	101	21207	5.037	ug/l	91
8) Diethyl Ether	2.136	74	7199	5.009	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	8766	5.145	ug/l	97
10) Methyl Iodide	2.447	142	11066	4.928	ug/l	97
11) Tert butyl alcohol	2.995	59	6094	17.693	ug/l	99
12) 1,1-Dichloroethene	2.306	96	7822	4.999	ug/l	95
13) Acrolein	2.239	56	12521	25.073	ug/l	100
14) Allyl chloride	2.654	41	12490	4.792	ug/l	94
15) Acrylonitrile	3.069	53	23276	24.357	ug/l	99
16) Acetone	2.392	43	24645	24.696	ug/l	93
17) Carbon Disulfide	2.495	76	12169	4.091	ug/l	99
18) Methyl Acetate	2.709	43	12412	4.824	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	30546	5.002	ug/l	94
20) Methylene Chloride	2.782	84	9466	5.050	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	7768	4.671	ug/l	97
22) Diisopropyl ether	3.764	45	29518	5.029	ug/l #	73
23) Vinyl Acetate	3.721	43	109670	22.983	ug/l	96
24) 1,1-Dichloroethane	3.605	63	16370	5.004	ug/l	96
25) 2-Butanone	4.574	43	34245	24.138	ug/l	97
26) 2,2-Dichloropropane	4.471	77	12514	4.708	ug/l	99
27) cis-1,2-Dichloroethene	4.495	96	10292	4.873	ug/l	97
28) Bromochloromethane	4.897	49	8049	5.017	ug/l #	93
29) Tetrahydrofuran	5.019	42	24307	26.693	ug/l	94
30) Chloroform	5.093	83	18319	4.984	ug/l	93
31) Cyclohexane	5.464	56	12995	4.919	ug/l	89
32) 1,1,1-Trichloroethane	5.373	97	14231	4.664	ug/l	96
36) 1,1-Dichloropropene	5.690	75	11455	4.942	ug/l	94
37) Ethyl Acetate	4.727	43	13265	4.630	ug/l	97
38) Carbon Tetrachloride	5.666	117	11476	4.599	ug/l	96
39) Methylcyclohexane	7.373	83	13019	4.699	ug/l #	85
40) Benzene	6.037	78	35018	4.976	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044220.D
 Acq On : 11 Dec 2024 11:27
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Quant Time: Dec 12 04:13:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:11:59 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.946	41	7585	4.986	ug/l	93
42) 1,2-Dichloroethane	6.092	62	14419	4.974	ug/l	99
43) Isopropyl Acetate	6.354	43	22098	4.935	ug/l	98
44) Trichloroethene	7.123	130	8405	4.790	ug/l	100
45) 1,2-Dichloropropane	7.434	63	8932	4.968	ug/l	94
46) Dibromomethane	7.586	93	6915	4.958	ug/l	99
47) Bromodichloromethane	7.824	83	10646	4.420	ug/l #	98
48) Methyl methacrylate	7.702	41	9586	4.410	ug/l	97
49) 1,4-Dioxane	7.671	88	2783	74.917	ug/l #	84
51) 4-Methyl-2-Pentanone	8.574	43	71285	24.759	ug/l	98
52) Toluene	8.720	92	21486	4.862	ug/l	99
53) t-1,3-Dichloropropene	8.982	75	9232	4.665	ug/l	100
54) cis-1,3-Dichloropropene	8.372	75	11404	4.348	ug/l	99
55) 1,1,2-Trichloroethane	9.153	97	8590	4.893	ug/l	97
56) Ethyl methacrylate	9.122	69	11854	4.277	ug/l #	89
57) 1,3-Dichloropropane	9.311	76	15352	5.024	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.244	63	34738	24.852	ug/l	99
59) 2-Hexanone	9.433	43	50003	23.994	ug/l	96
60) Dibromochloromethane	9.519	129	6411	4.738	ug/l	98
61) 1,2-Dibromoethane	9.610	107	8330	4.662	ug/l	97
64) Tetrachloroethene	9.275	164	7710	5.334	ug/l #	87
65) Chlorobenzene	10.079	112	23268	4.986	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	6647	4.432	ug/l	94
67) Ethyl Benzene	10.195	91	39326	4.877	ug/l	97
68) m/p-Xylenes	10.299	106	28758	9.720	ug/l	98
69) o-Xylene	10.640	106	14864	4.965	ug/l	97
70) Styrene	10.659	104	22191	4.624	ug/l	98
71) Bromoform	10.799	173	3775	5.118	ug/l #	98
73) Isopropylbenzene	10.963	105	37843	5.194	ug/l	98
74) N-amyl acetate	10.842	43	15418	4.579	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	12848	5.077	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	12901	5.974	ug/l	91
77) Bromobenzene	11.201	156	8892	5.033	ug/l	99
78) n-propylbenzene	11.305	91	40574	5.038	ug/l	96
79) 2-Chlorotoluene	11.366	91	27096	5.203	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	30665	5.075	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.024	75	2249	8.273	ug/l #	62
82) 4-Chlorotoluene	11.457	91	29039	5.035	ug/l	99
83) tert-Butylbenzene	11.713	119	29283	4.904	ug/l	95
84) 1,2,4-Trimethylbenzene	11.750	105	30970	5.219	ug/l	99
85) sec-Butylbenzene	11.890	105	35670	4.921	ug/l	98
86) p-Isopropyltoluene	12.006	119	29132	4.828	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	15553	5.039	ug/l	96
88) 1,4-Dichlorobenzene	12.043	146	15609	4.920	ug/l	95
89) n-Butylbenzene	12.335	91	22719	4.478	ug/l	98
90) Hexachloroethane	12.536	117	3765	4.275	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	15858	4.949	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	2154	4.385	ug/l	81
93) 1,2,4-Trichlorobenzene	13.591	180	7867	4.478	ug/l	96
94) Hexachlorobutadiene	13.725	225	3321	4.700	ug/l	93
95) Naphthalene	13.780	128	31842	4.643	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	8422	4.520	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044220.D
Acq On : 11 Dec 2024 11:27
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

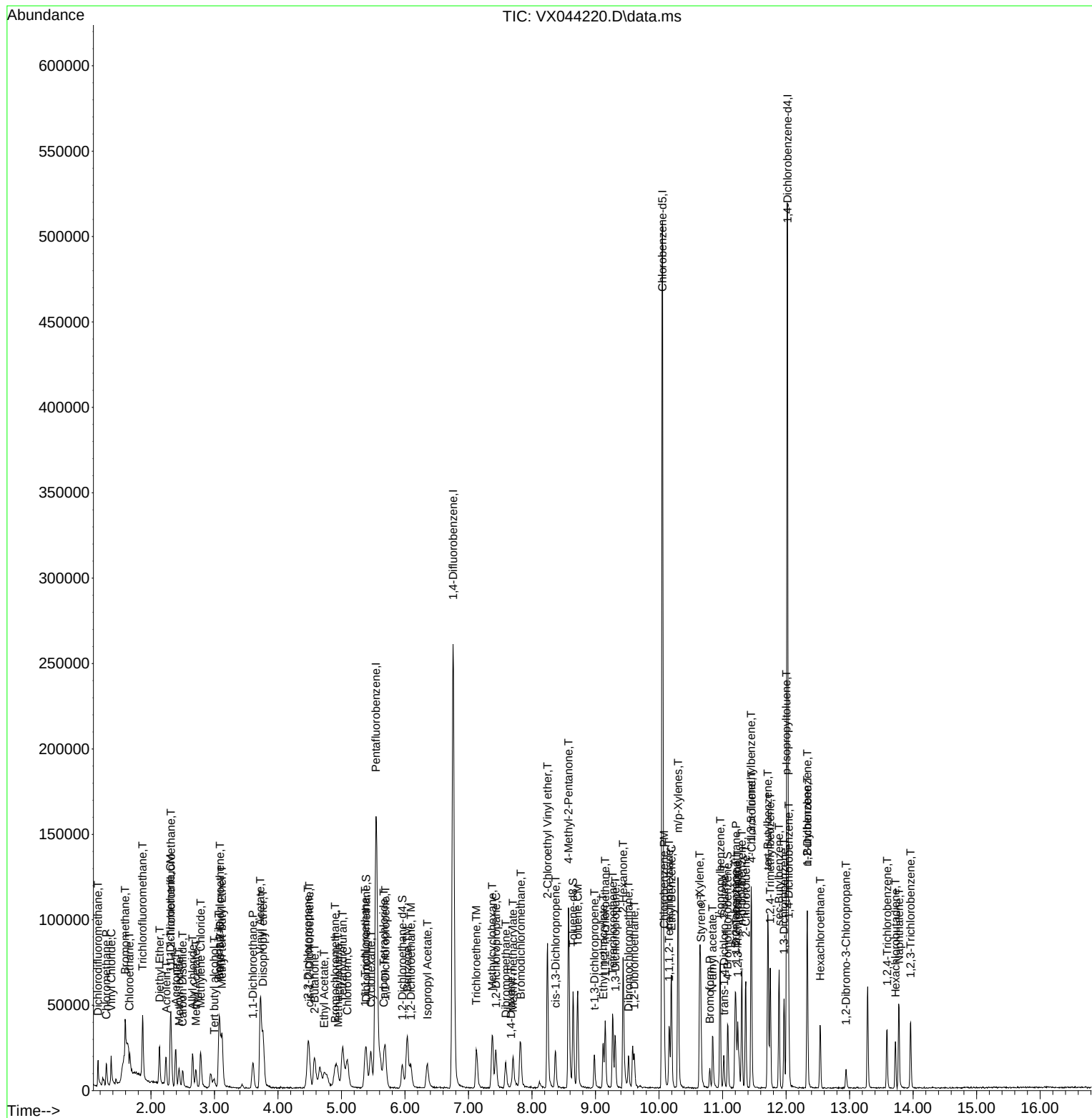
Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

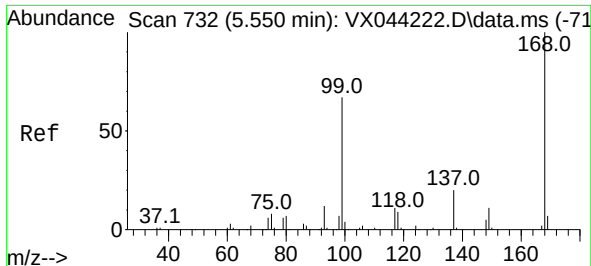
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSV0A_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

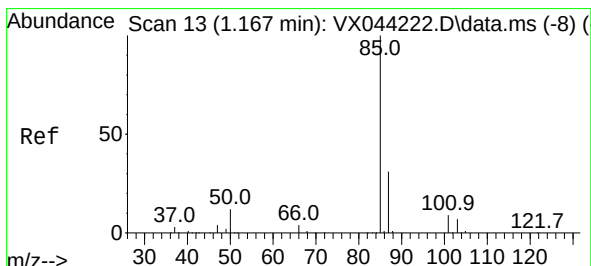
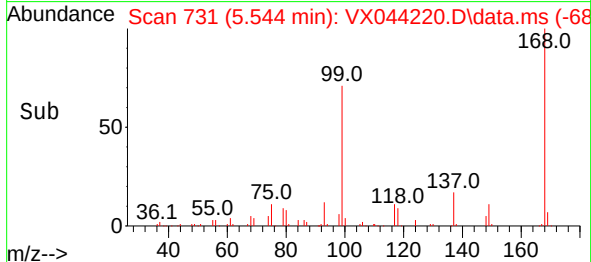
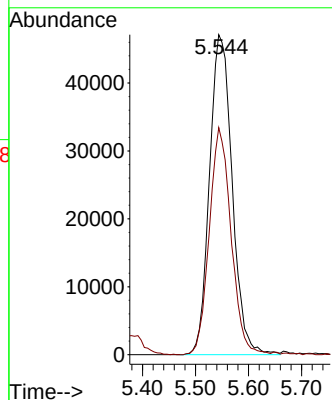
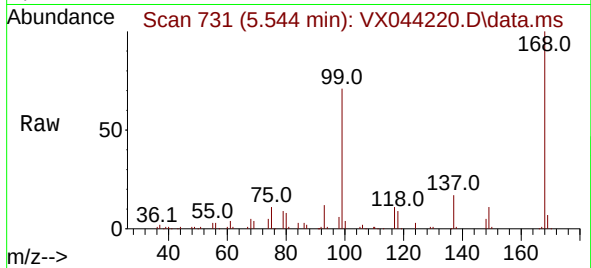




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

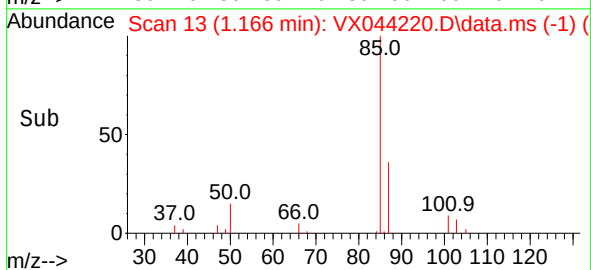
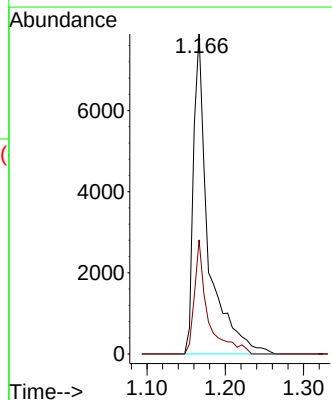
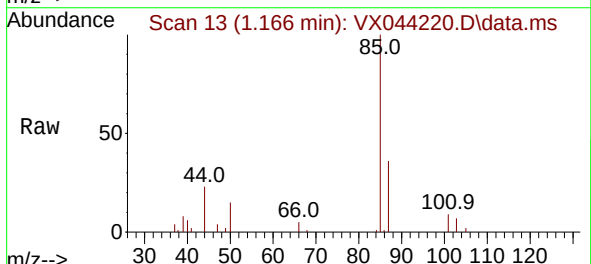
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

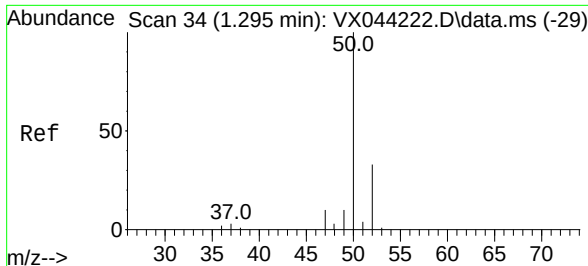
Tgt Ion:168 Resp: 139609
Ion Ratio Lower Upper
168 100
99 71.0 53.4 80.0



#2
Dichlorodifluoromethane
Concen: 4.842 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 85 Resp: 10452
Ion Ratio Lower Upper
85 100
87 35.6 15.4 46.4

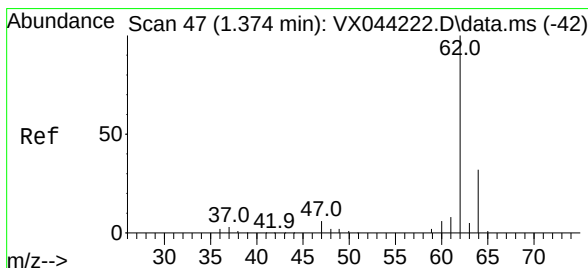
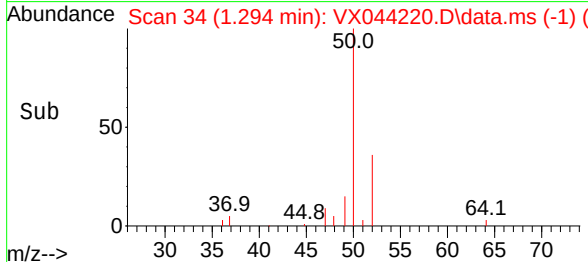
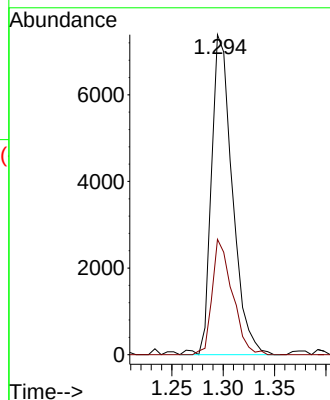
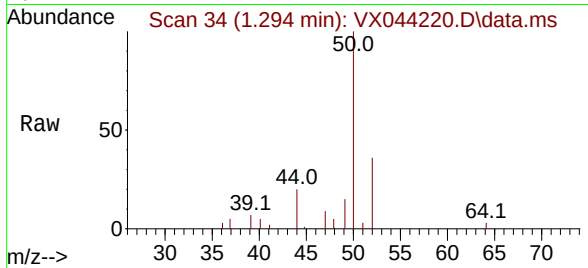




#3
Chloromethane
Concen: 5.052 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

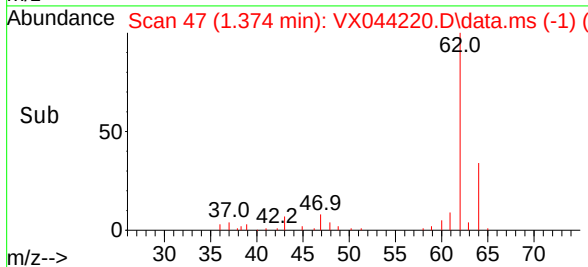
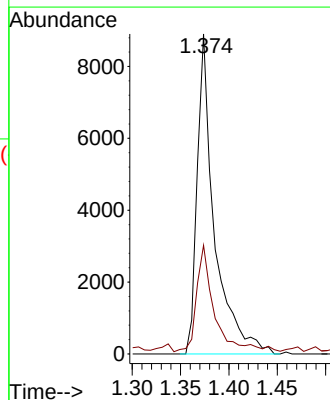
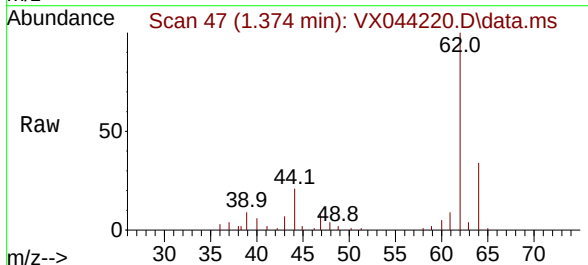
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

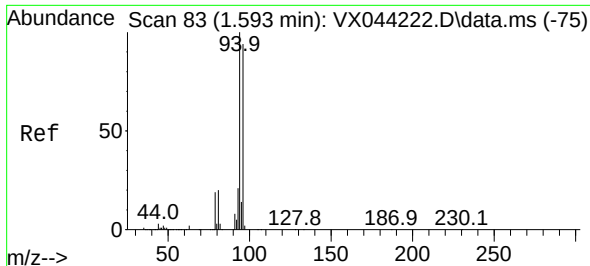
Tgt Ion: 50 Resp: 10429
Ion Ratio Lower Upper
50 100
52 36.0 26.5 39.7



#4
Vinyl Chloride
Concen: 5.129 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 62 Resp: 11031
Ion Ratio Lower Upper
62 100
64 33.1 25.7 38.5

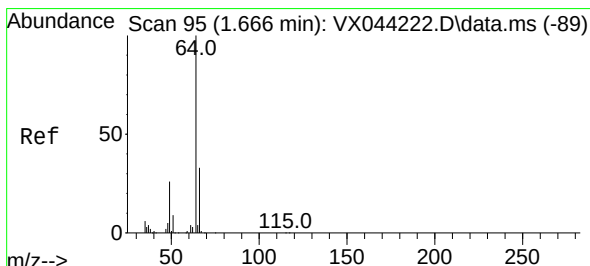
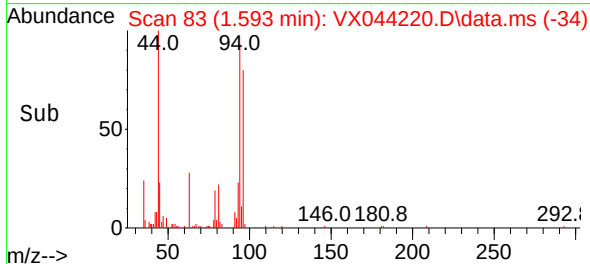
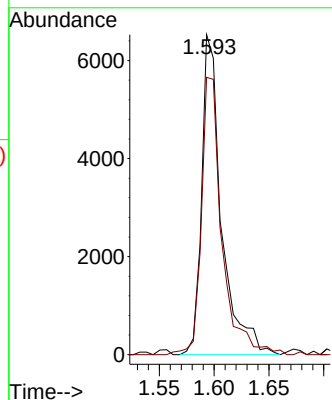
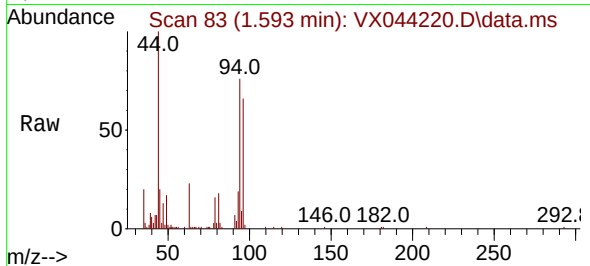




#5
Bromomethane
Concen: 5.399 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

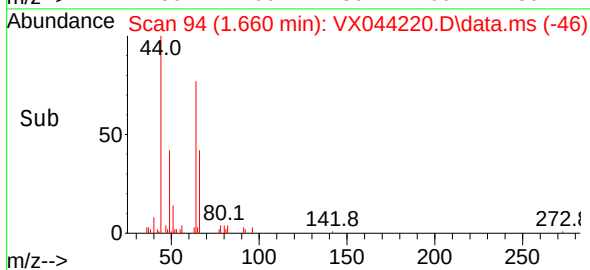
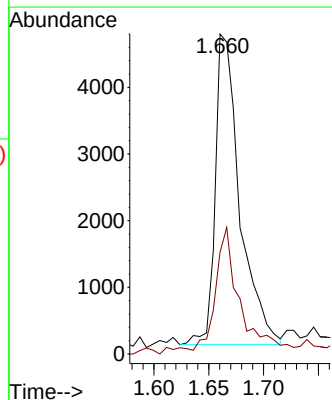
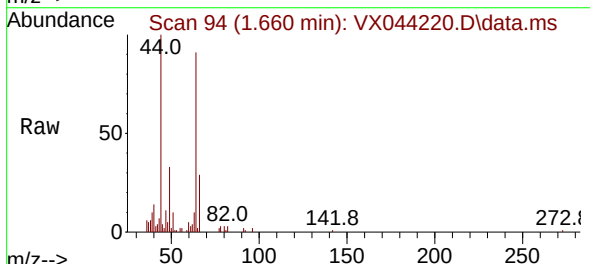
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

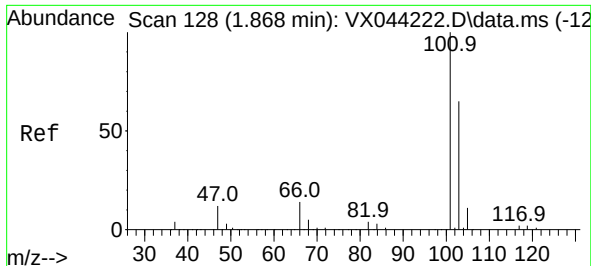
Tgt Ion: 94 Resp: 8237
Ion Ratio Lower Upper
94 100
96 85.5 74.9 112.3



#6
Chloroethane
Concen: 5.416 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 64 Resp: 7253
Ion Ratio Lower Upper
64 100
66 30.7 26.6 39.8

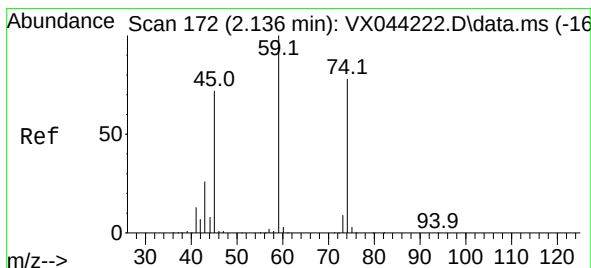
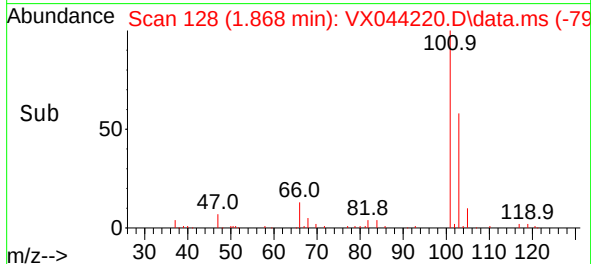
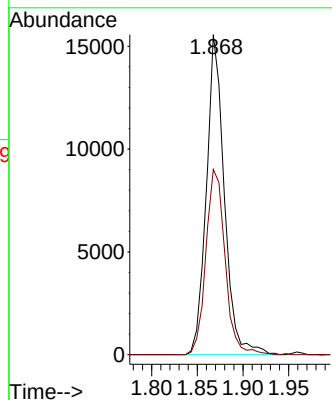
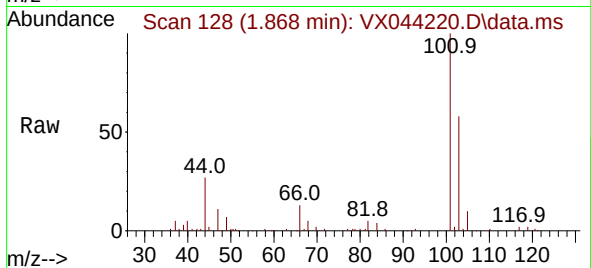




#7
Trichlorofluoromethane
Concen: 5.037 ug/l
RT: 1.868 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

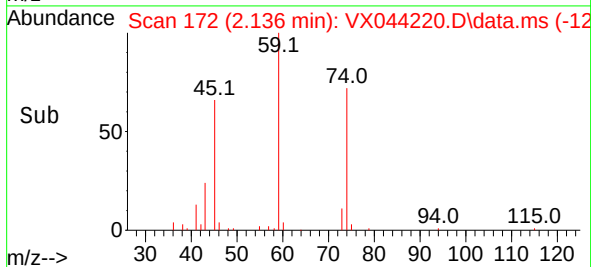
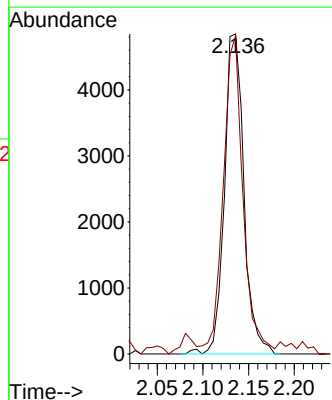
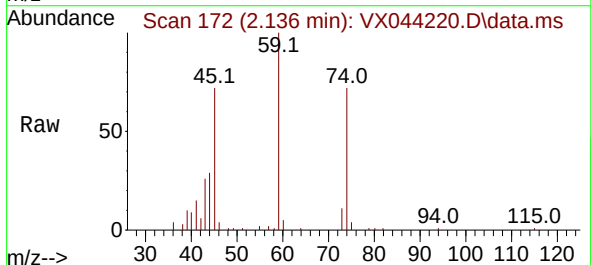
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

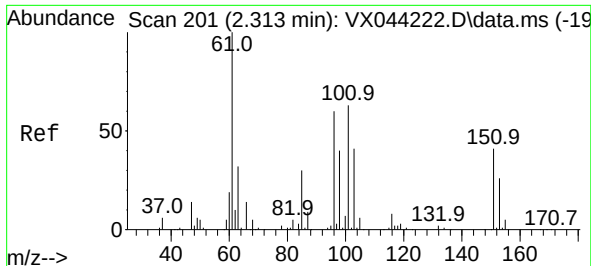
Tgt Ion:101 Resp: 21207
Ion Ratio Lower Upper
101 100
103 57.9 51.8 77.8



#8
Diethyl Ether
Concen: 5.009 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 74 Resp: 7199
Ion Ratio Lower Upper
74 100
45 97.0 48.4 145.0

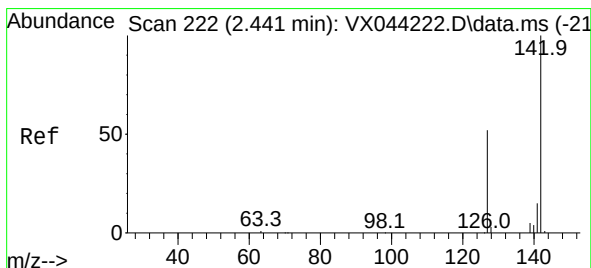
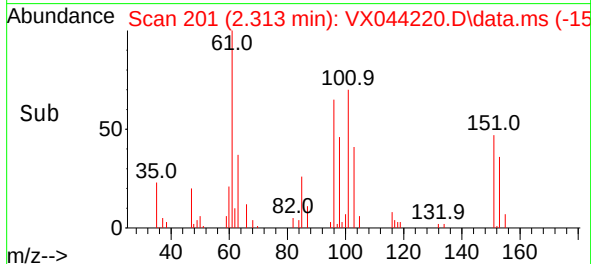
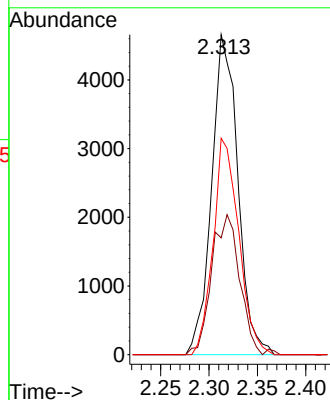
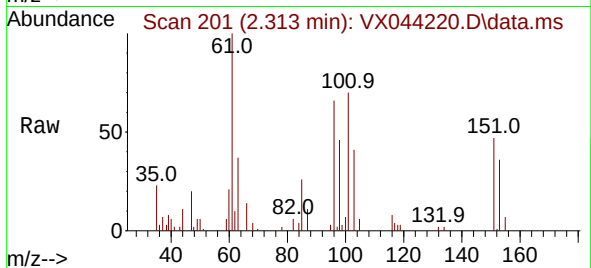




#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.145 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

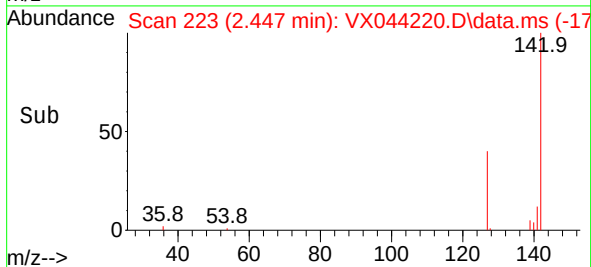
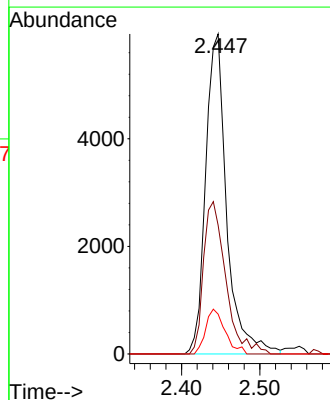
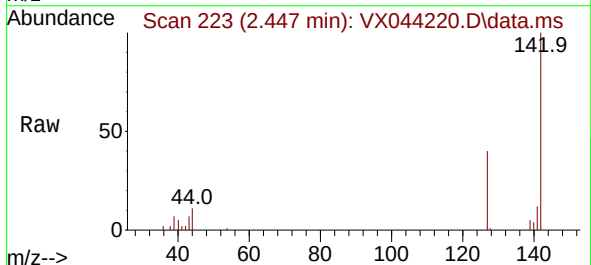
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

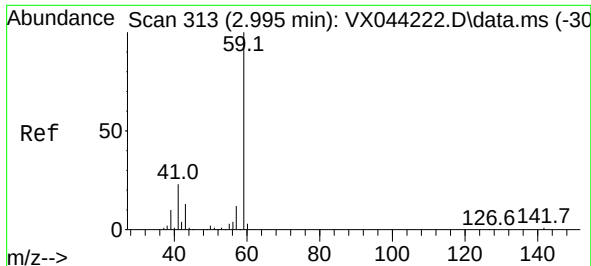
Tgt Ion:101 Resp: 8766
Ion Ratio Lower Upper
101 100
85 46.7 38.5 57.7
151 66.2 55.8 83.6



#10
Methyl Iodide
Concen: 4.928 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:142 Resp: 11066
Ion Ratio Lower Upper
142 100
127 50.4 41.8 62.8
141 12.9 11.5 17.3

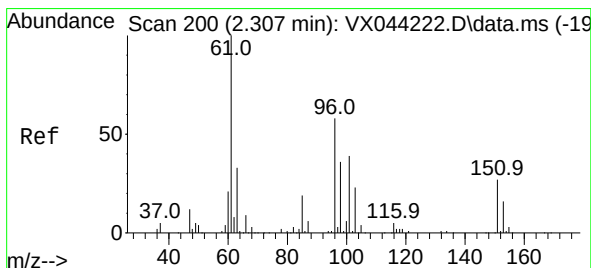
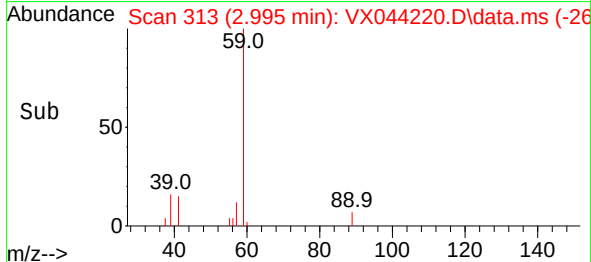
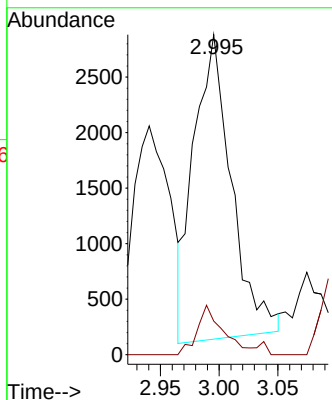
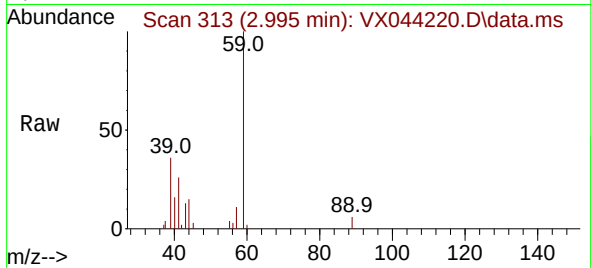




#11
Tert butyl alcohol
Concen: 17.693 ug/l
RT: 2.995 min Scan# 313
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

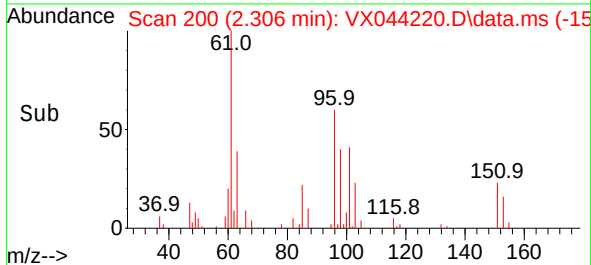
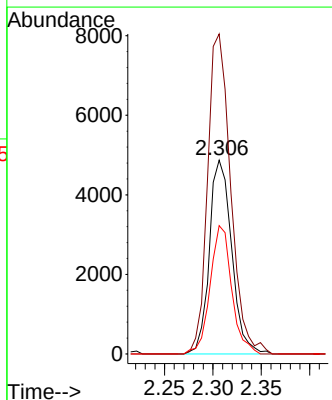
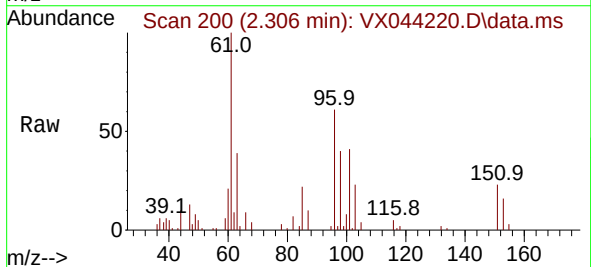
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

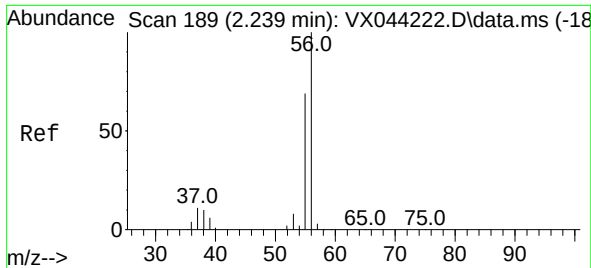
Tgt Ion: 59 Resp: 6094
Ion Ratio Lower Upper
59 100
57 11.2 8.8 13.2



#12
1,1-Dichloroethene
Concen: 4.999 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 96 Resp: 7822
Ion Ratio Lower Upper
96 100
61 165.2 138.0 207.0
98 66.2 50.0 75.0

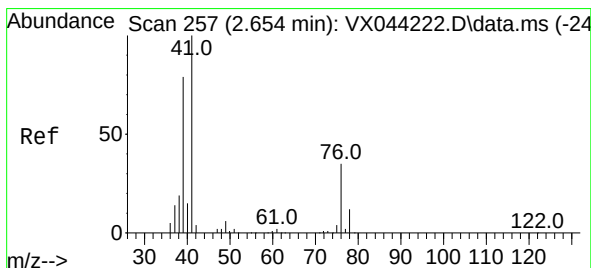
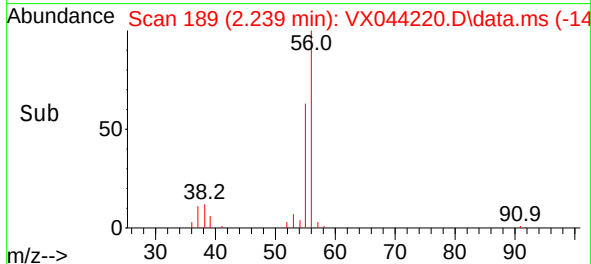
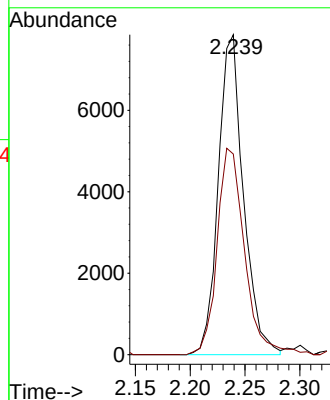
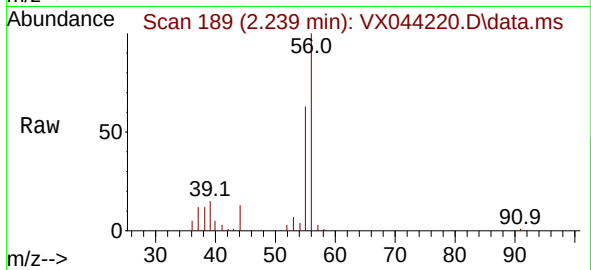




#13
Acrolein
Concen: 25.073 ug/l
RT: 2.239 min Scan# 189
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

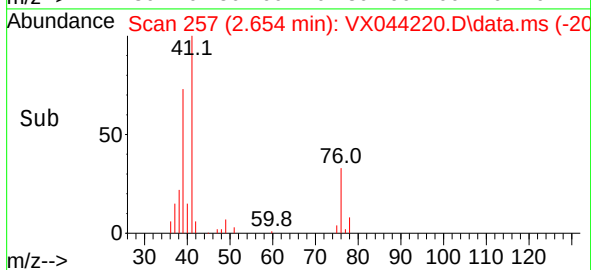
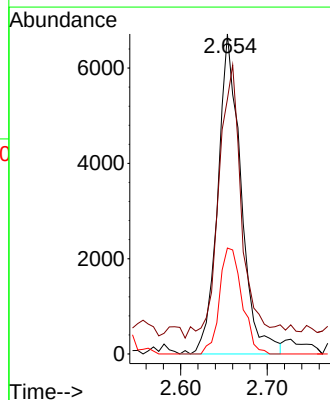
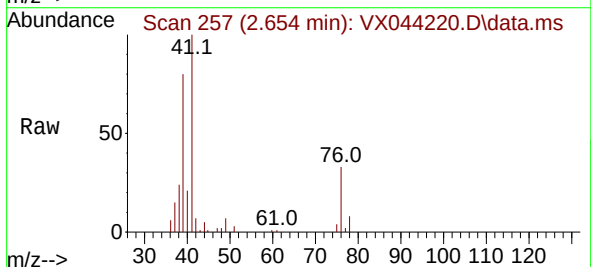
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

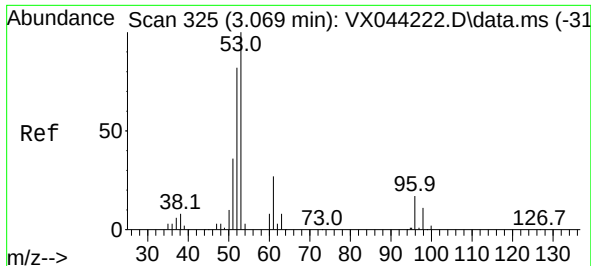
Tgt Ion: 56 Resp: 12521
Ion Ratio Lower Upper
56 100
55 70.6 56.6 84.8



#14
Allyl chloride
Concen: 4.792 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 41 Resp: 12490
Ion Ratio Lower Upper
41 100
39 84.0 61.9 92.9
76 32.1 27.4 41.2





#15

Acrylonitrile

Concen: 24.357 ug/l

RT: 3.069 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

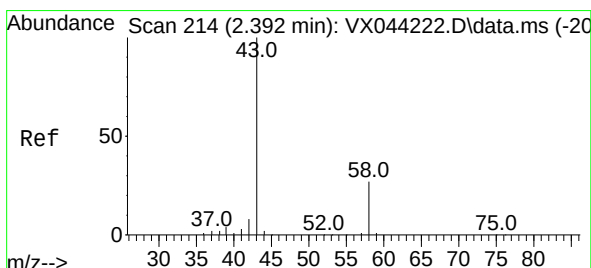
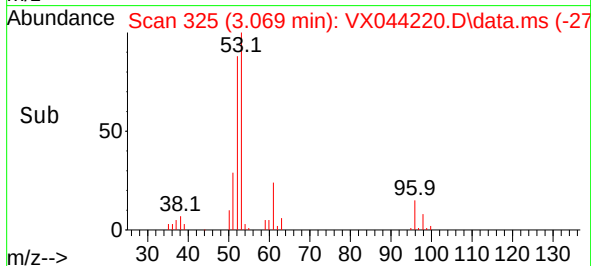
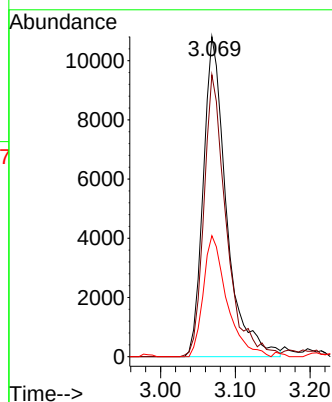
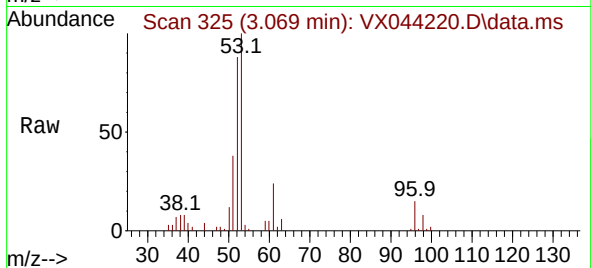
Tgt Ion: 53 Resp: 23276

Ion Ratio Lower Upper

53 100

52 85.0 67.4 101.0

51 38.2 30.3 45.5



#16

Acetone

Concen: 24.696 ug/l

RT: 2.392 min Scan# 214

Delta R.T. -0.000 min

Lab File: VX044220.D

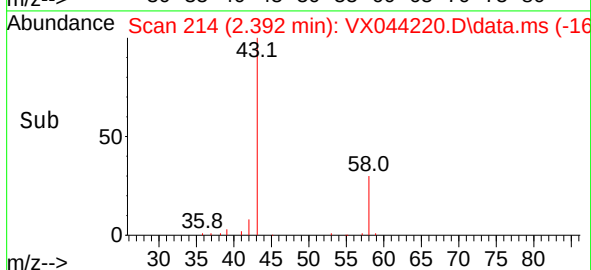
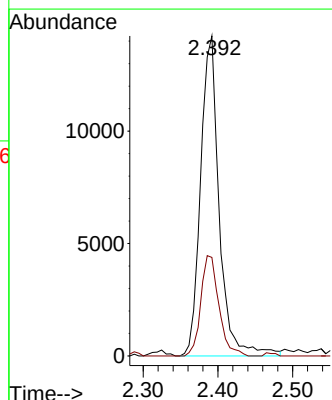
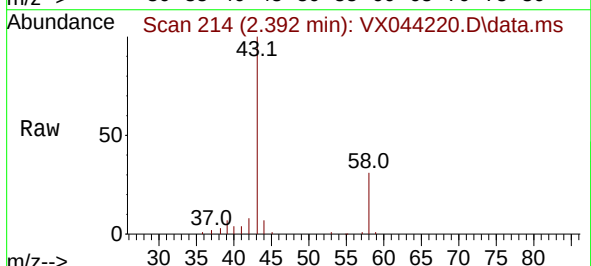
Acq: 11 Dec 2024 11:27

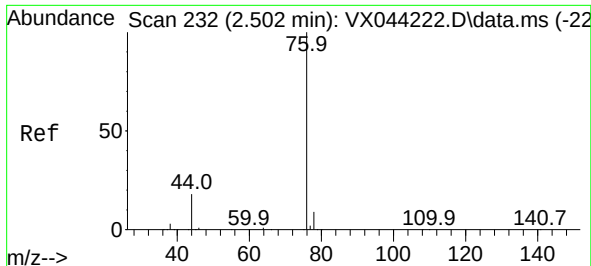
Tgt Ion: 43 Resp: 24645

Ion Ratio Lower Upper

43 100

58 30.8 21.6 32.4

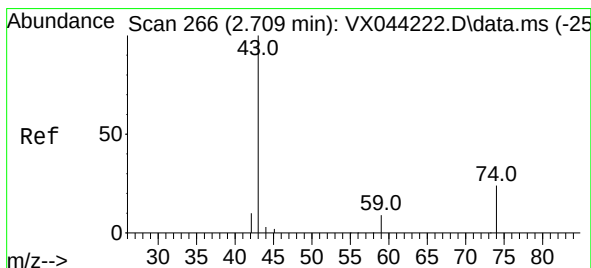
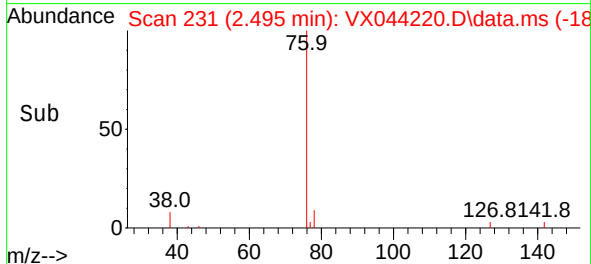
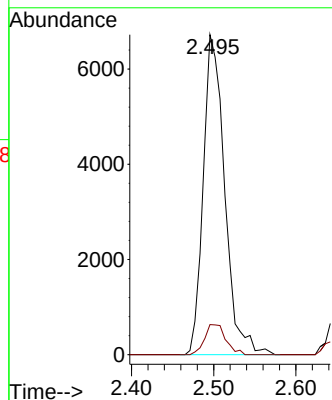
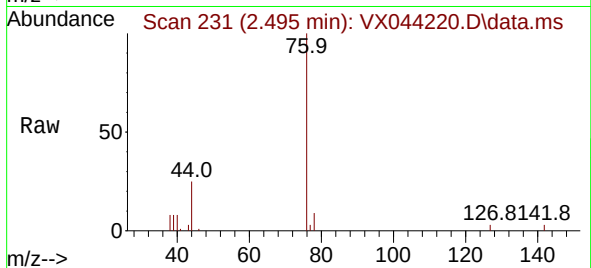




#17
Carbon Disulfide
Concen: 4.091 ug/l
RT: 2.495 min Scan# 232
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

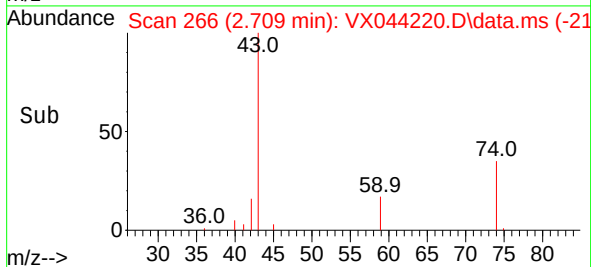
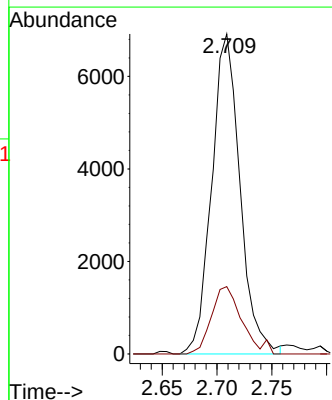
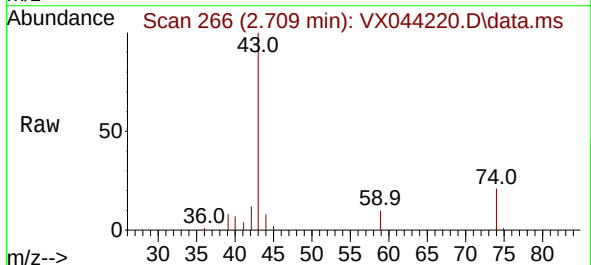
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

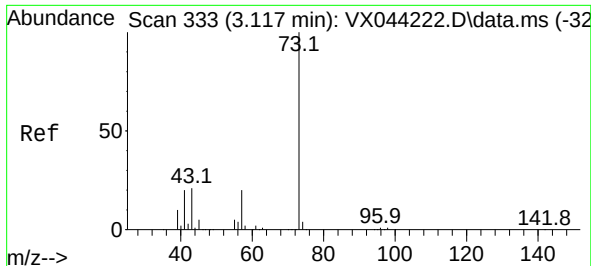
Tgt Ion: 76 Resp: 12169
Ion Ratio Lower Upper
76 100
78 9.4 7.4 11.0



#18
Methyl Acetate
Concen: 4.824 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 12412
Ion Ratio Lower Upper
43 100
74 22.7 17.7 26.5

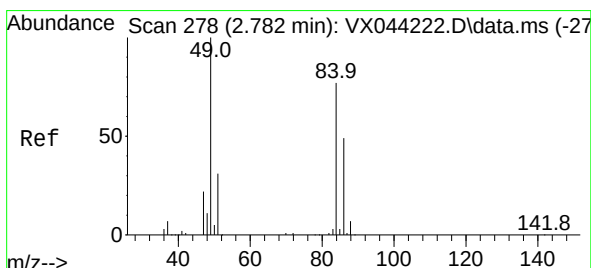
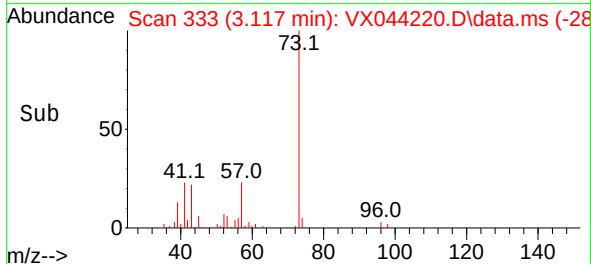
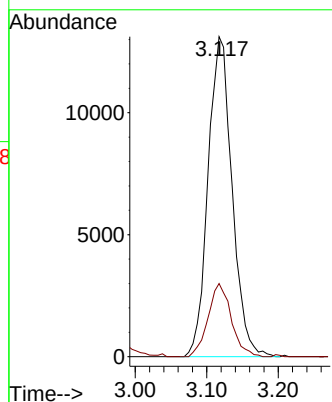
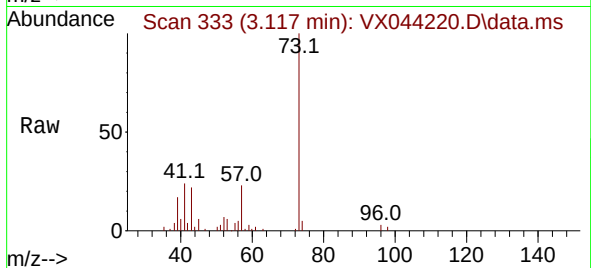




#19
Methyl tert-butyl Ether
Concen: 5.002 ug/l
RT: 3.117 min Scan# 333
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

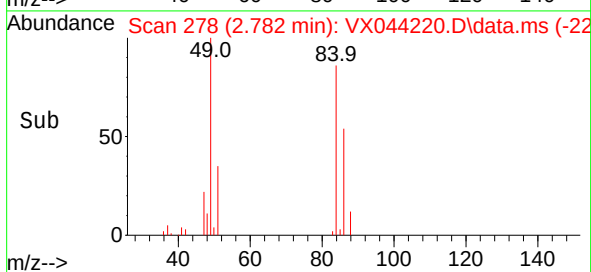
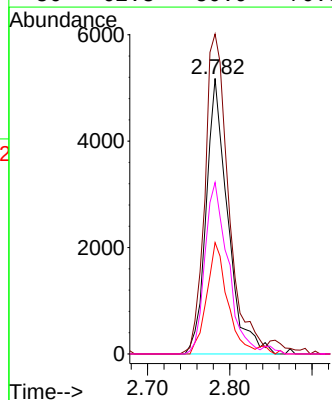
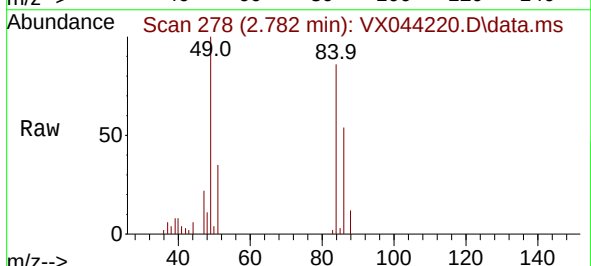
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

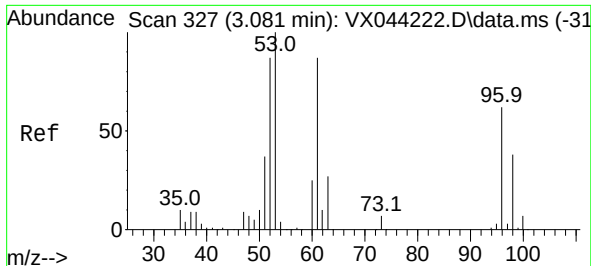
Tgt Ion: 73 Resp: 30546
Ion Ratio Lower Upper
73 100
57 22.9 16.2 24.4



#20
Methylene Chloride
Concen: 5.050 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 84 Resp: 9466
Ion Ratio Lower Upper
84 100
49 116.2 104.2 156.4
51 40.4 32.2 48.4
86 62.3 50.9 76.3

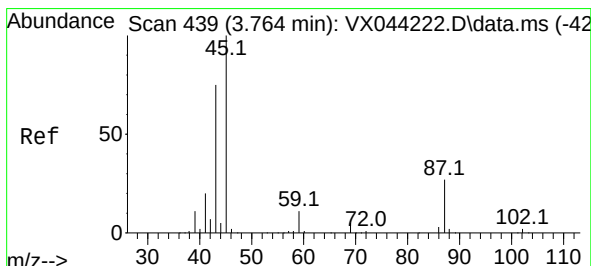
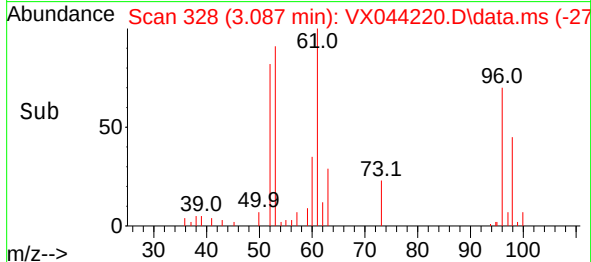
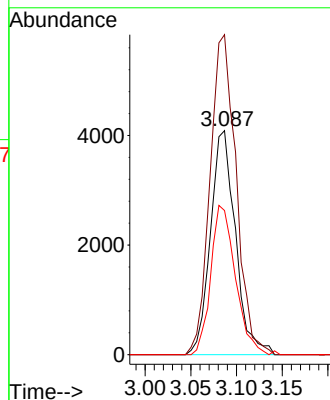
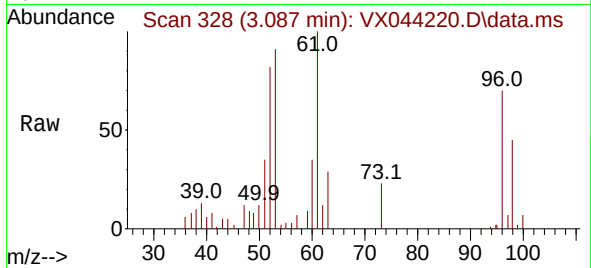




#21
trans-1,2-Dichloroethene
Concen: 4.671 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

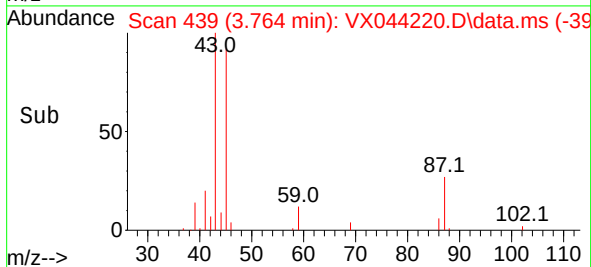
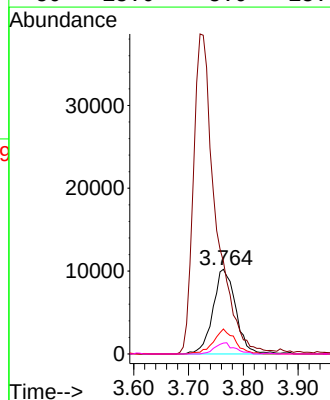
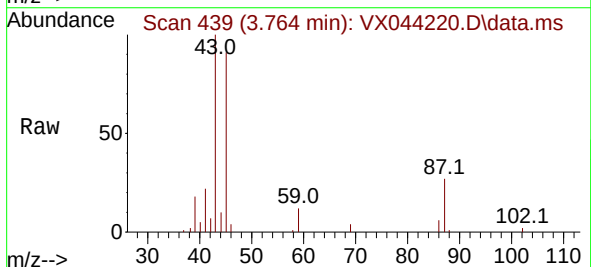
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

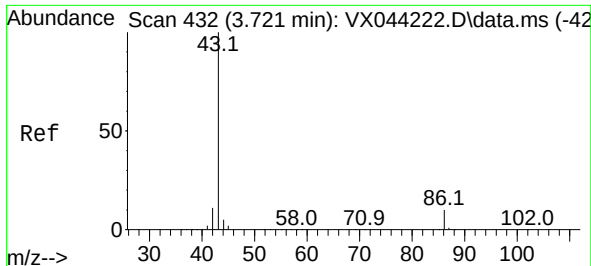
Tgt Ion: 96 Resp: 7768
Ion Ratio Lower Upper
96 100
61 142.9 112.0 168.0
98 64.4 48.8 73.2



#22
Diisopropyl ether
Concen: 5.029 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 45 Resp: 29518
Ion Ratio Lower Upper
45 100
43 107.7 60.2 90.2#
87 29.5 21.2 31.8
59 13.0 8.9 13.3





#23

Vinyl Acetate

Concen: 22.983 ug/l

RT: 3.721 min Scan# 413

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

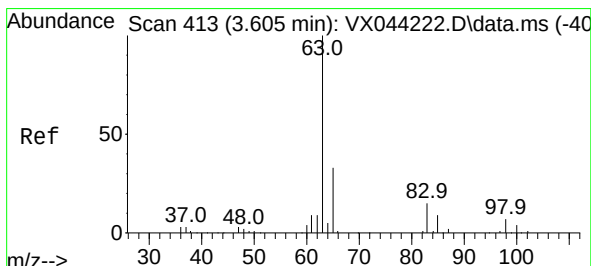
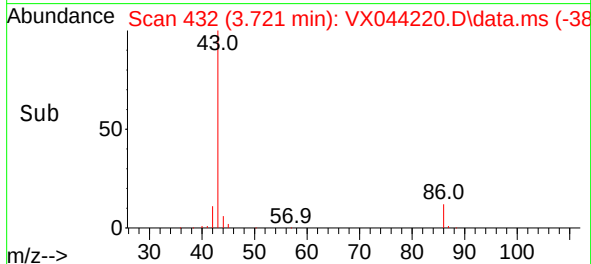
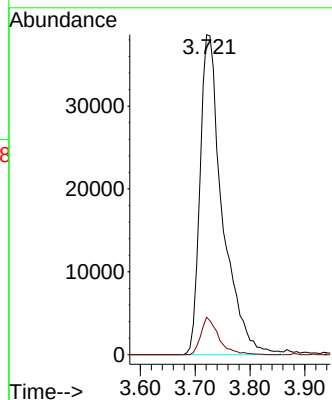
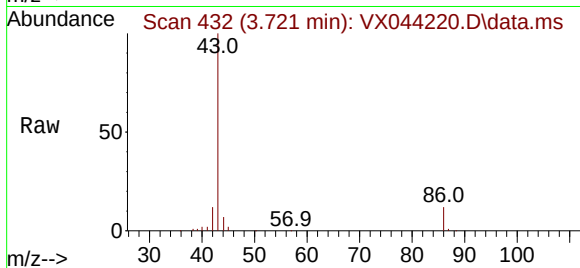
VSTDIC005

Tgt Ion: 43 Resp: 109670

Ion Ratio Lower Upper

43 100

86 11.7 8.2 12.2



#24

1,1-Dichloroethane

Concen: 5.004 ug/l

RT: 3.605 min Scan# 413

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

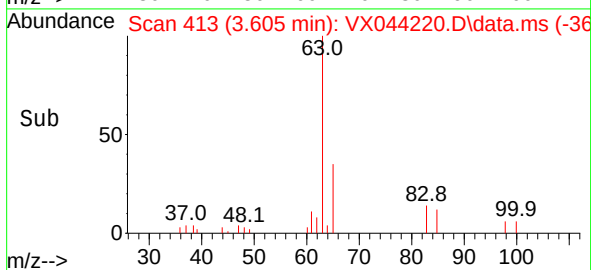
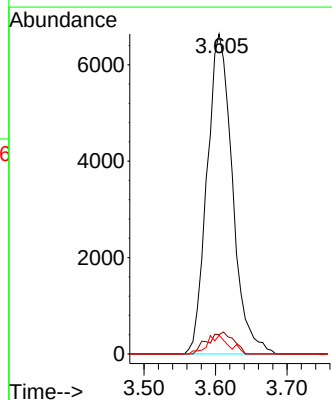
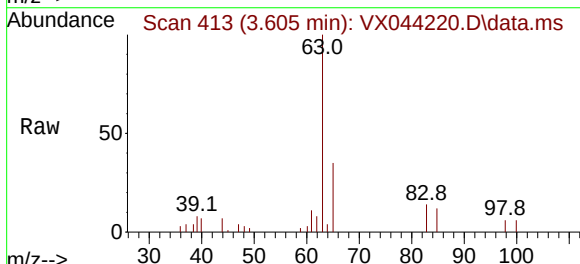
Tgt Ion: 63 Resp: 16370

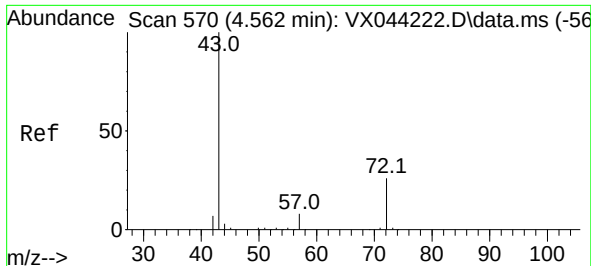
Ion Ratio Lower Upper

63 100

98 6.0 3.6 10.8

100 5.9 2.1 6.3





#25

2-Butanone

Concen: 24.138 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.012 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

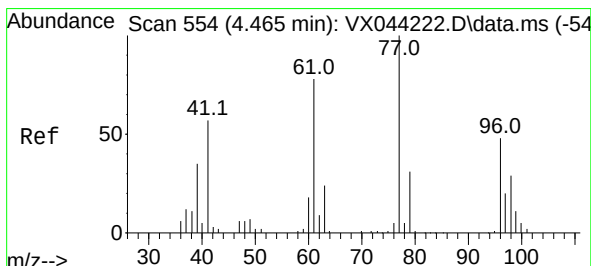
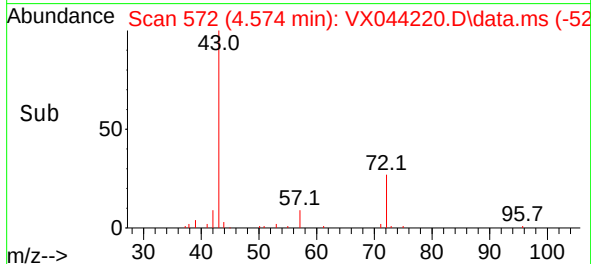
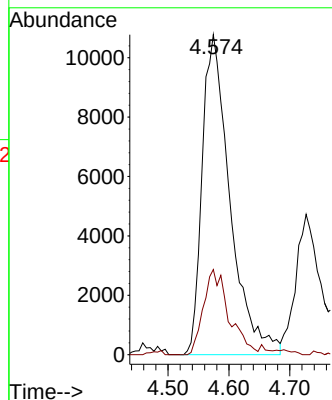
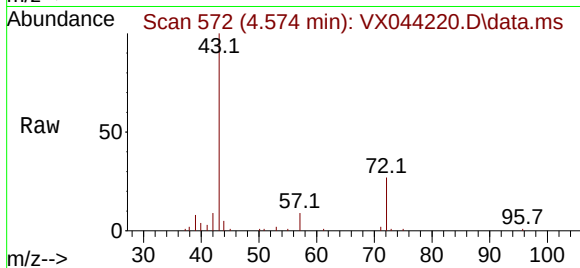
VSTDIC005

Tgt Ion: 43 Resp: 34245

Ion Ratio Lower Upper

43 100

72 26.6 20.2 30.4



#26

2,2-Dichloropropane

Concen: 4.708 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.006 min

Lab File: VX044220.D

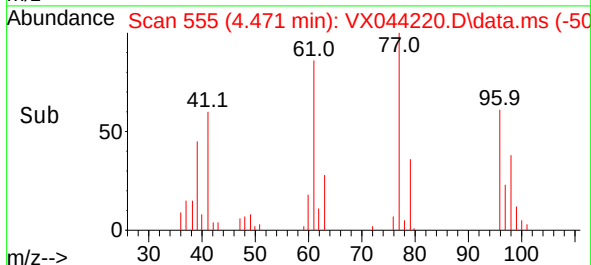
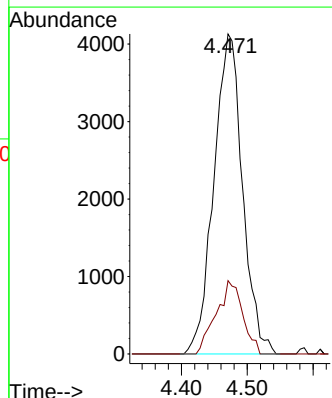
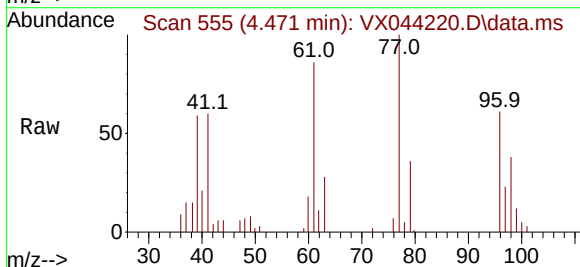
Acq: 11 Dec 2024 11:27

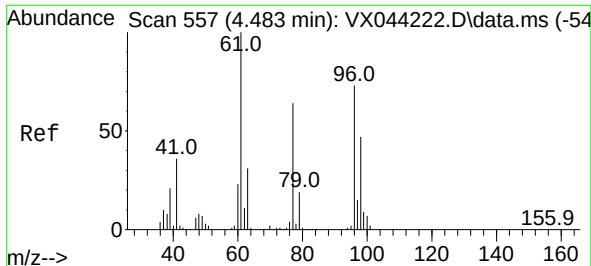
Tgt Ion: 77 Resp: 12514

Ion Ratio Lower Upper

77 100

97 21.2 10.7 32.1

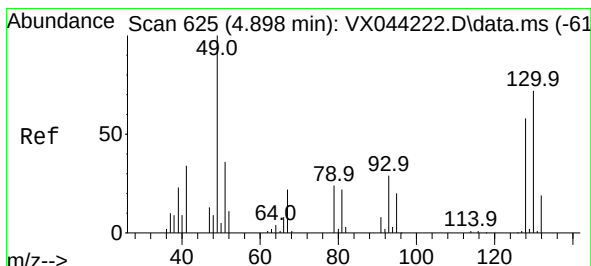
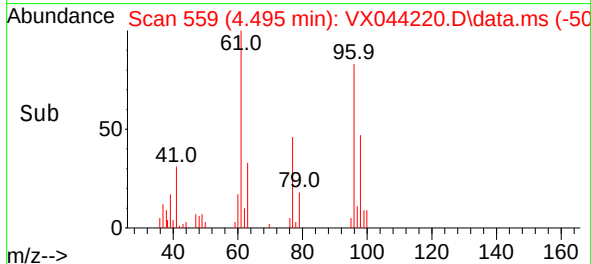
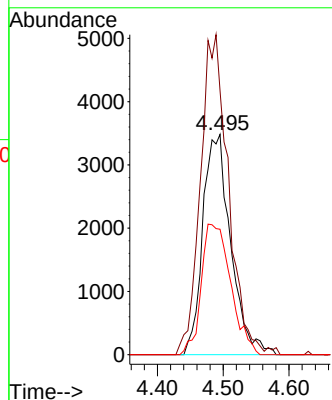
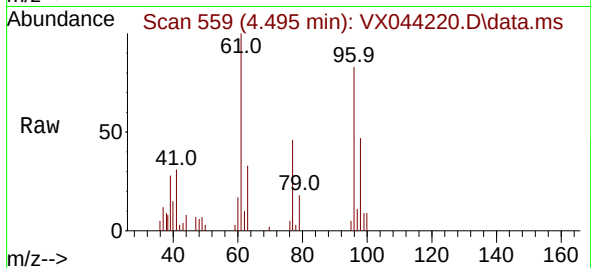




#27
cis-1,2-Dichloroethene
Concen: 4.873 ug/l
RT: 4.495 min Scan# 557
Delta R.T. 0.012 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

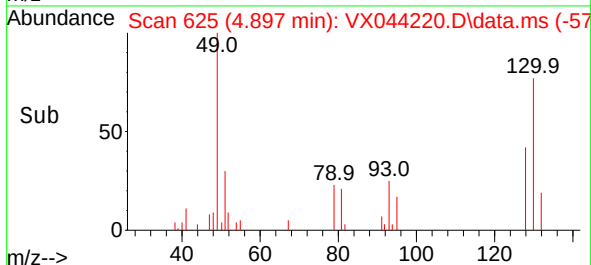
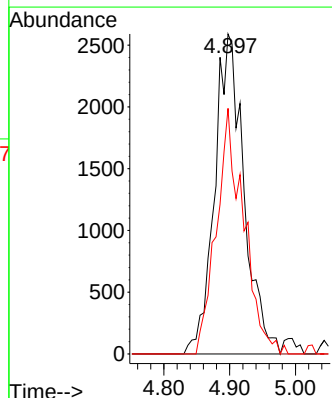
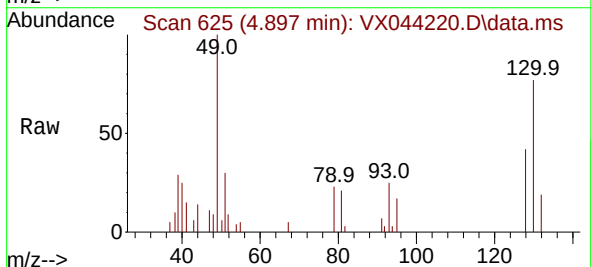
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

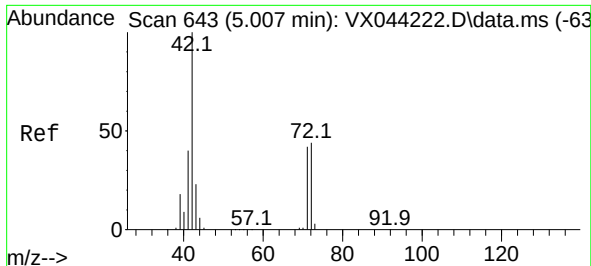
Tgt Ion: 96	Resp: 10292
Ion Ratio	Lower Upper
96	100
61	145.0 0.0 299.0
98	62.4 0.0 129.0



#28
Bromochloromethane
Concen: 5.017 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 49	Resp: 8049
Ion Ratio	Lower Upper
49	100
129	0.0 0.0 4.2
130	71.2 62.1 93.1

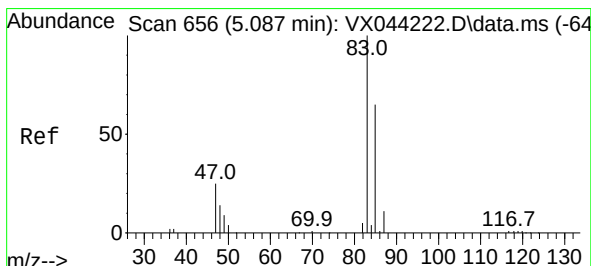
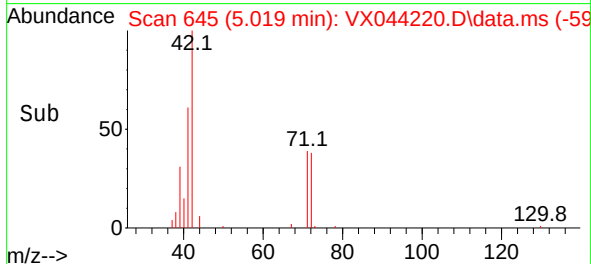
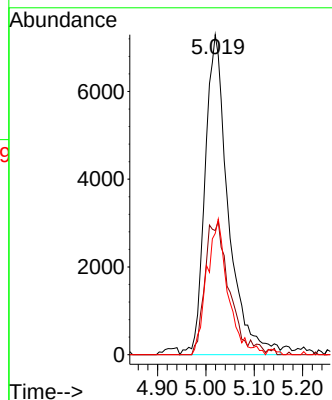
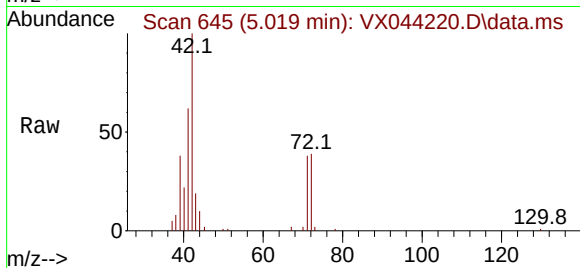




#29
Tetrahydrofuran
Concen: 26.693 ug/l
RT: 5.019 min Scan# 643
Delta R.T. 0.012 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

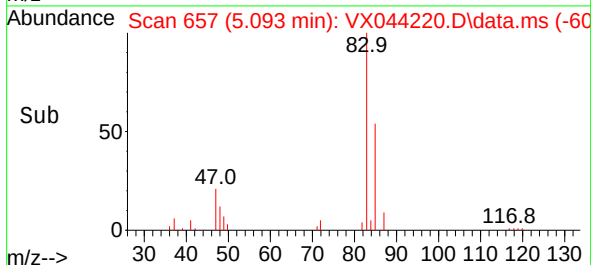
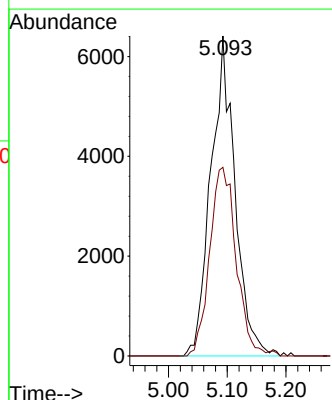
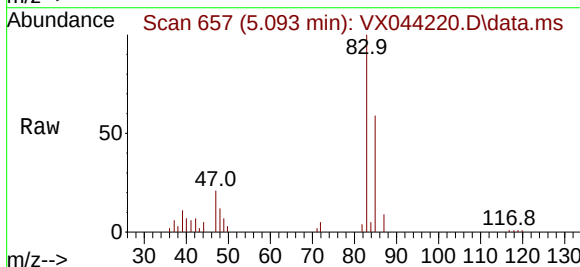
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

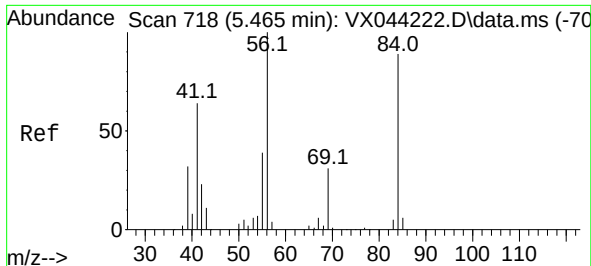
Tgt Ion:	42	Resp:	24307
Ion	Ratio	Lower	Upper
42	100		
72	42.3	37.0	55.6
71	38.9	33.6	50.4



#30
Chloroform
Concen: 4.984 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:	83	Resp:	18319
Ion	Ratio	Lower	Upper
83	100		
85	58.9	51.6	77.4

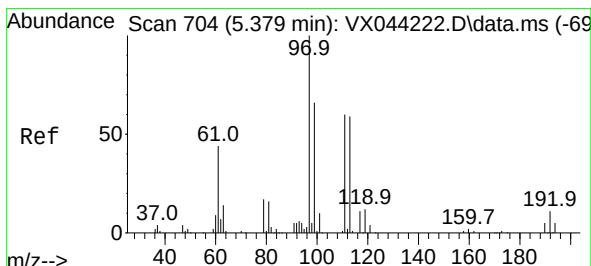
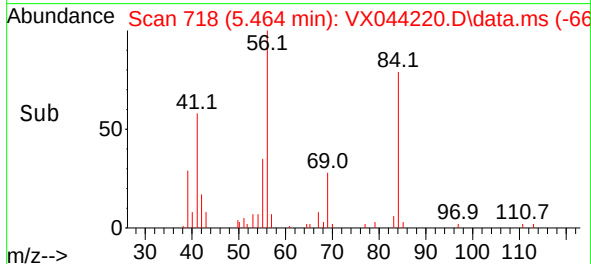
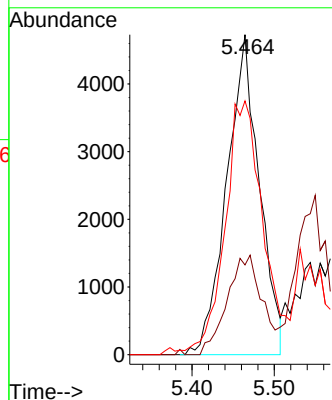
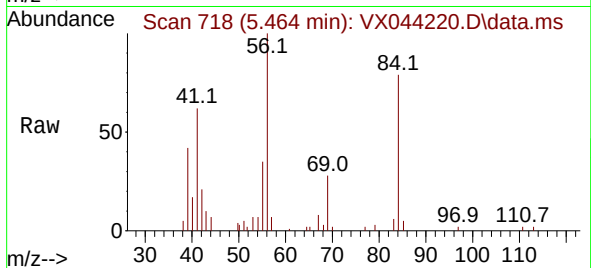




#31
Cyclohexane
Concen: 4.919 ug/l
RT: 5.464 min Scan# 718
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

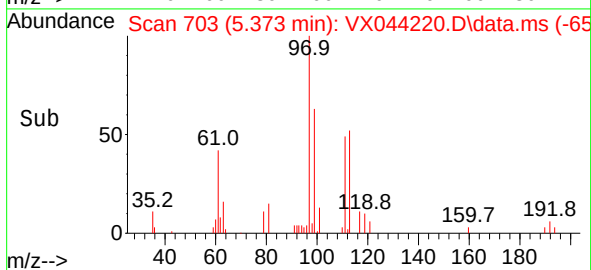
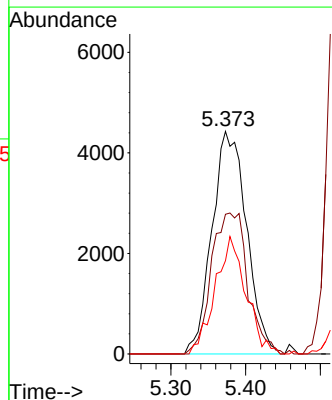
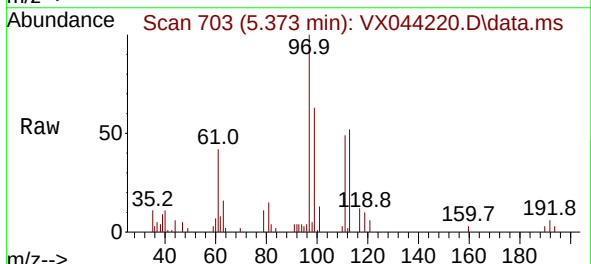
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

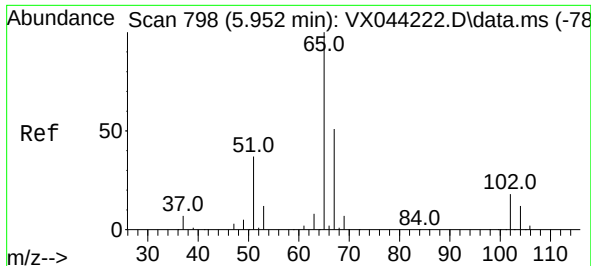
Tgt Ion: 56 Resp: 12995
Ion Ratio Lower Upper
56 100
69 26.4 24.7 37.1
84 77.9 71.0 106.6



#32
1,1,1-Trichloroethane
Concen: 4.664 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 97 Resp: 14231
Ion Ratio Lower Upper
97 100
99 66.8 50.8 76.2
61 46.9 35.2 52.8





#33

1,2-Dichloroethane-d4

Concen: 5.328 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

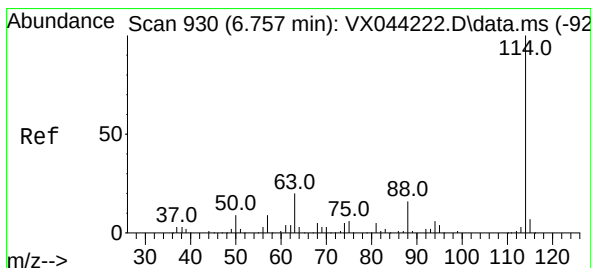
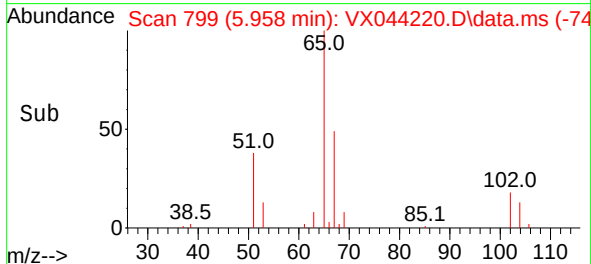
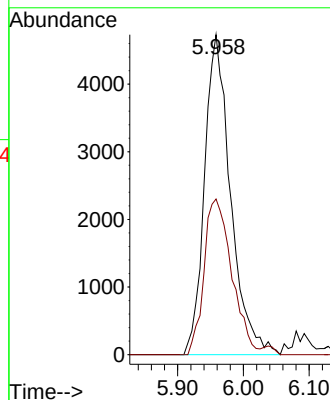
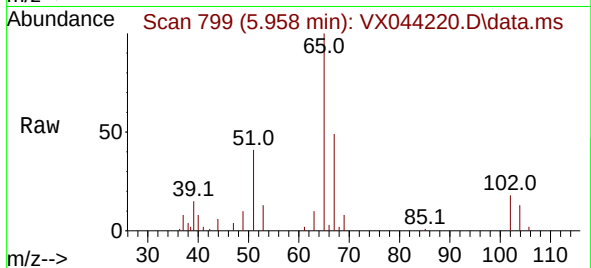
VSTDICC005

Tgt Ion: 65 Resp: 13043

Ion Ratio Lower Upper

65 100

67 51.8 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

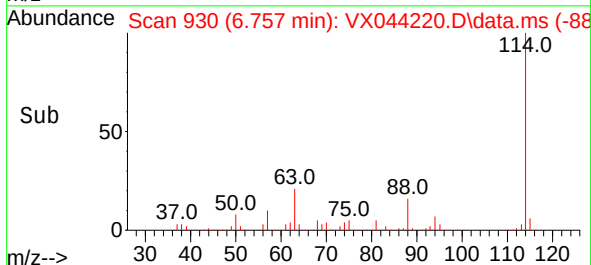
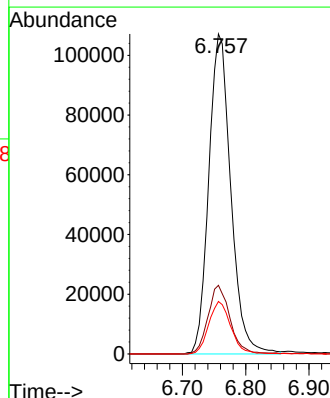
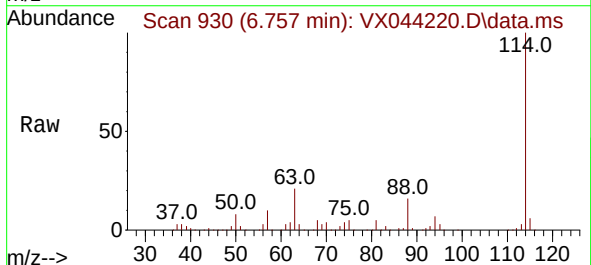
Tgt Ion: 114 Resp: 258881

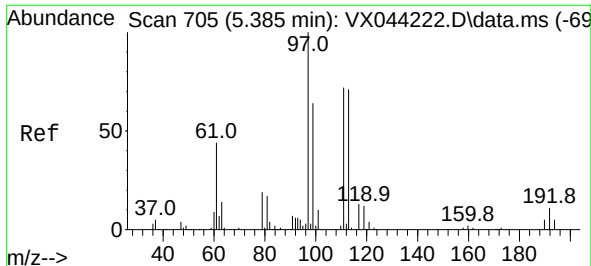
Ion Ratio Lower Upper

114 100

63 21.4 0.0 40.6

88 16.4 0.0 31.8

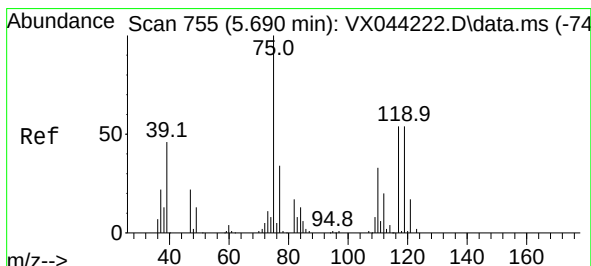
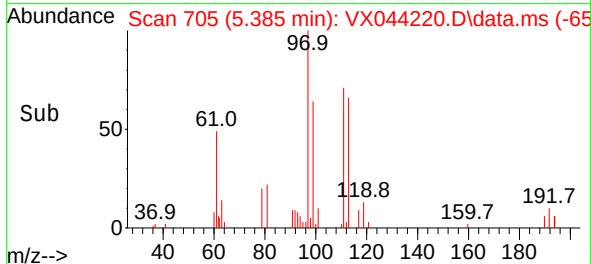
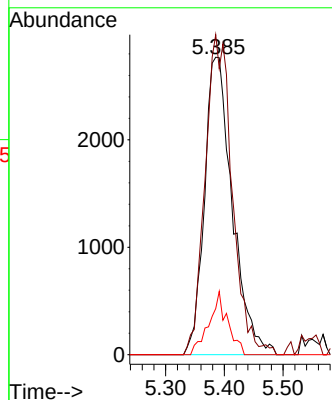
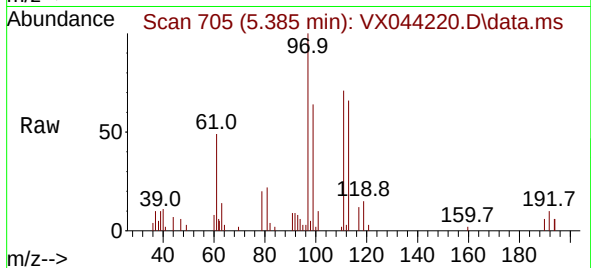




#35
Dibromofluoromethane
Concen: 5.100 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

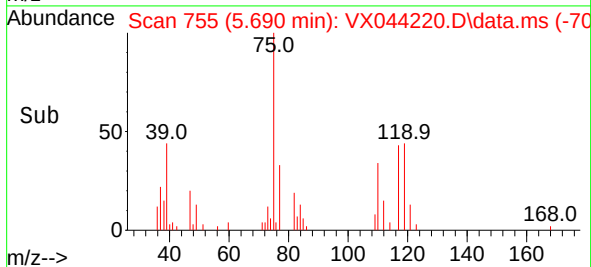
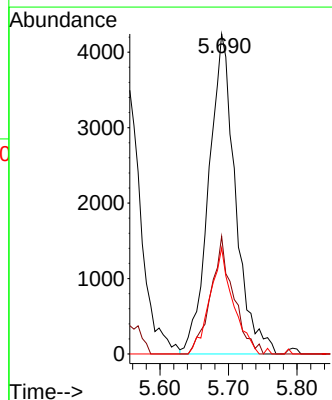
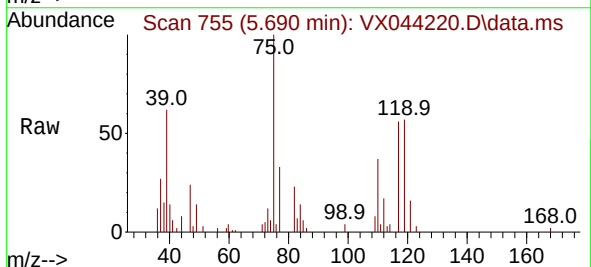
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

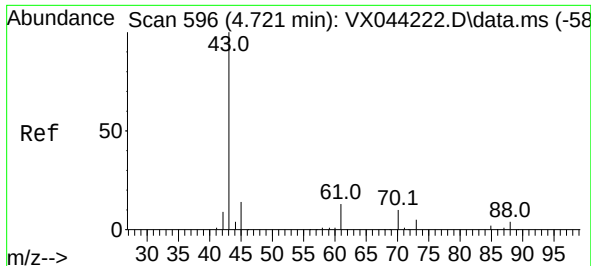
Tgt Ion:113 Resp: 9145
Ion Ratio Lower Upper
113 100
111 104.7 80.4 120.6
192 14.2 13.3 19.9



#36
1,1-Dichloropropene
Concen: 4.942 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 11455
Ion Ratio Lower Upper
75 100
110 31.1 17.3 51.7
77 28.7 25.4 38.0





#37

Ethyl Acetate

Concen: 4.630 ug/l

RT: 4.727 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

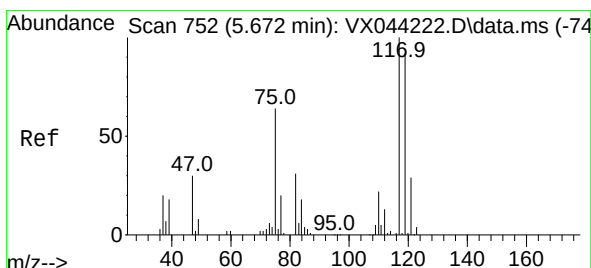
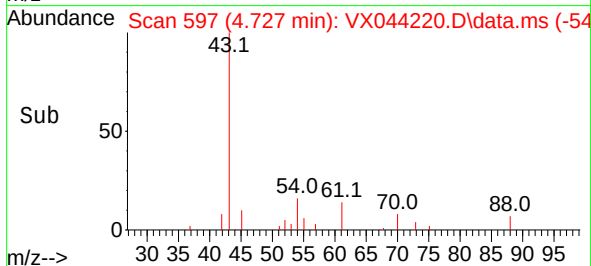
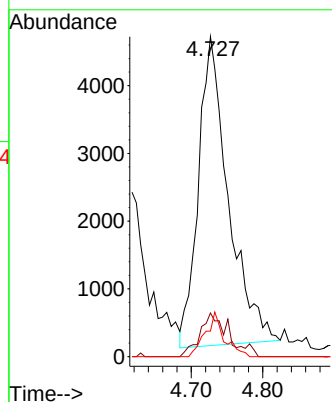
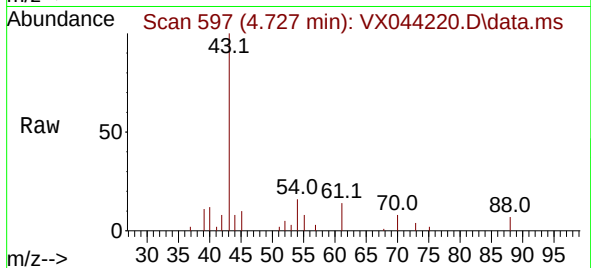
Tgt Ion: 43 Resp: 13265

Ion Ratio Lower Upper

43 100

61 13.6 9.8 14.8

70 9.1 7.7 11.5



#38

Carbon Tetrachloride

Concen: 4.599 ug/l

RT: 5.666 min Scan# 751

Delta R.T. -0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

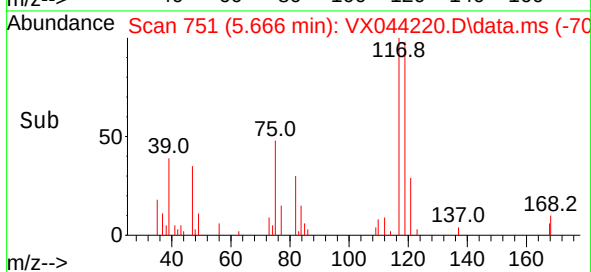
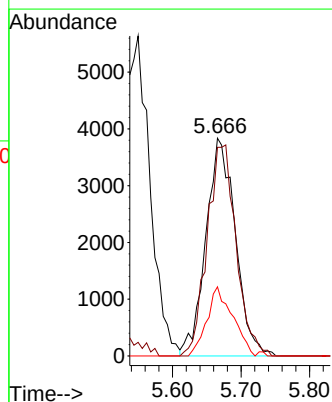
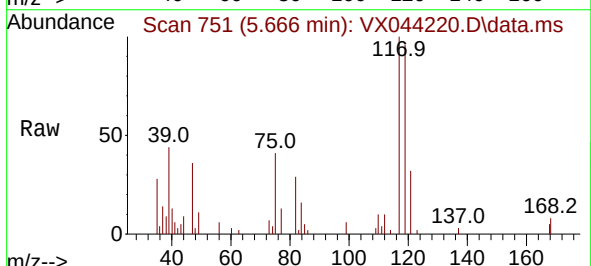
Tgt Ion: 117 Resp: 11476

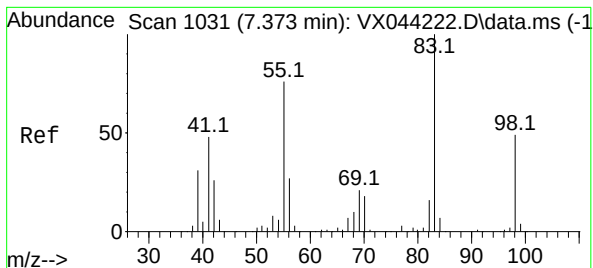
Ion Ratio Lower Upper

117 100

119 95.8 74.2 111.4

121 31.7 23.0 34.6





#39

Methylcyclohexane

Concen: 4.699 ug/l

RT: 7.373 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

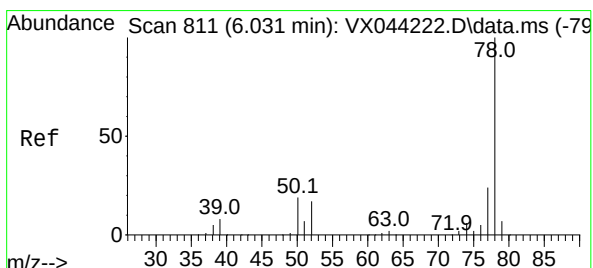
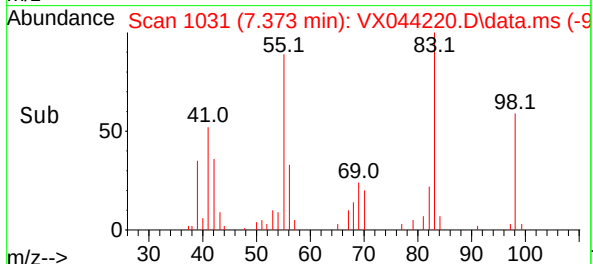
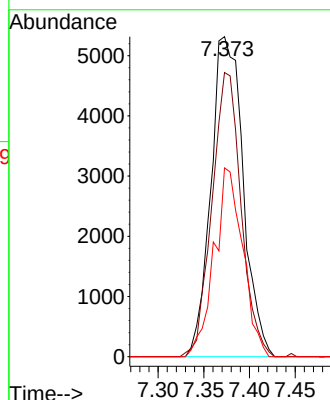
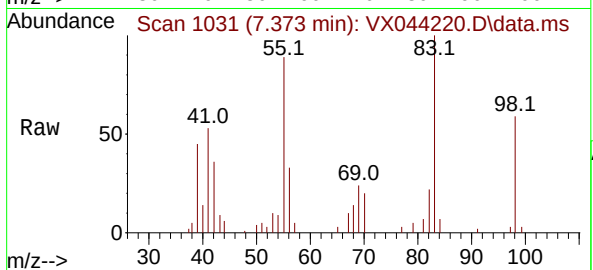
Tgt Ion: 83 Resp: 13019

Ion Ratio Lower Upper

83 100

55 88.8 60.7 91.1

98 59.0 38.9 58.3#



#40

Benzene

Concen: 4.976 ug/l

RT: 6.037 min Scan# 812

Delta R.T. 0.006 min

Lab File: VX044220.D

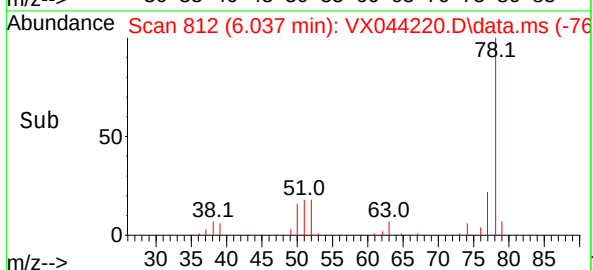
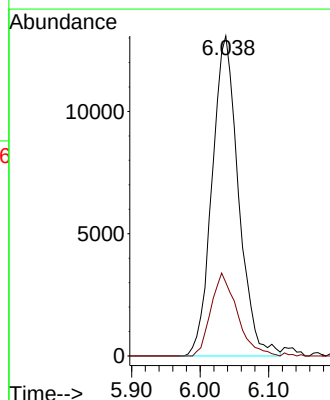
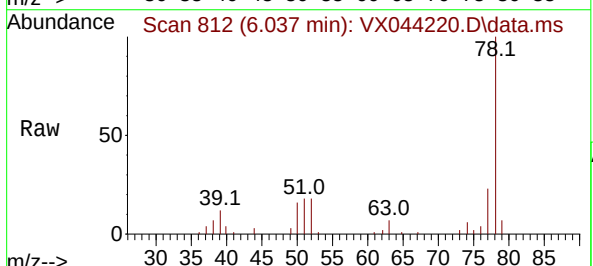
Acq: 11 Dec 2024 11:27

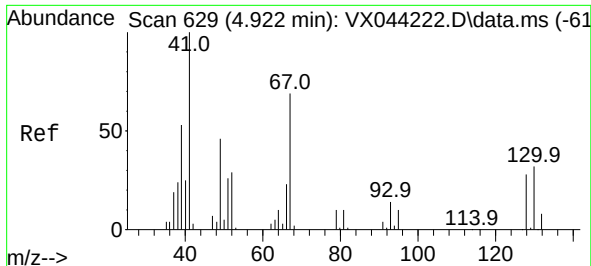
Tgt Ion: 78 Resp: 35018

Ion Ratio Lower Upper

78 100

77 22.9 19.3 28.9

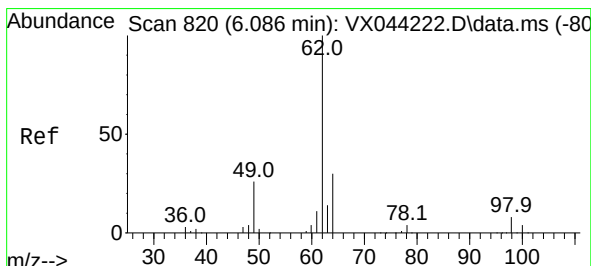
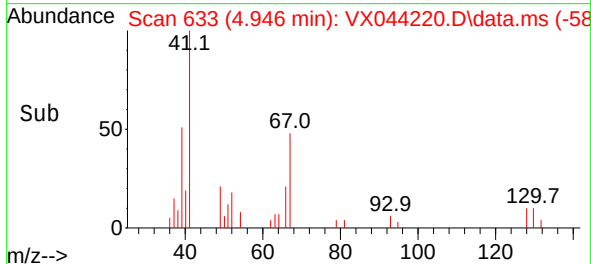
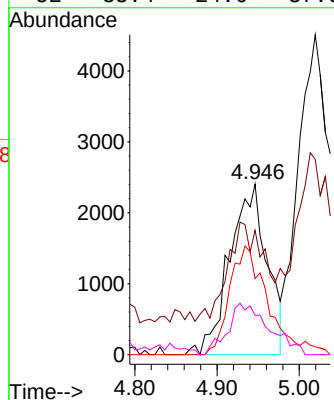
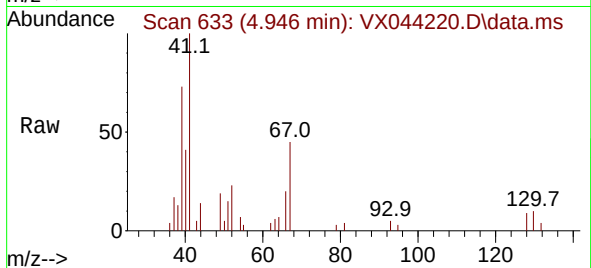




#41
Methacrylonitrile
Concen: 4.986 ug/l
RT: 4.946 min Scan# 61
Delta R.T. 0.024 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

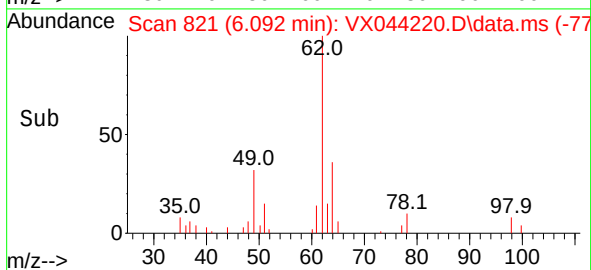
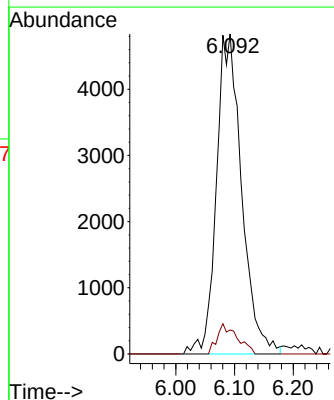
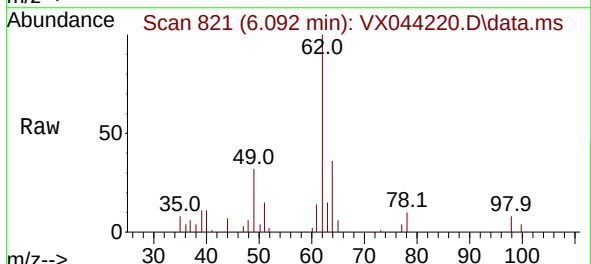
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

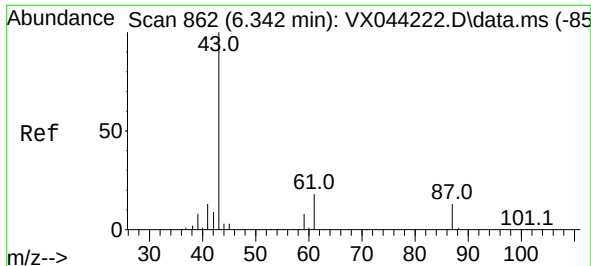
Tgt Ion:	41	Resp:	7585
Ion	Ratio	Lower	Upper
41	100		
39	58.4	44.2	66.4
67	63.0	57.2	85.8
52	33.4	24.6	37.0



#42
1,2-Dichloroethane
Concen: 4.974 ug/l
RT: 6.092 min Scan# 821
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:	62	Resp:	14419
Ion	Ratio	Lower	Upper
62	100		
98	7.5	0.0	15.8

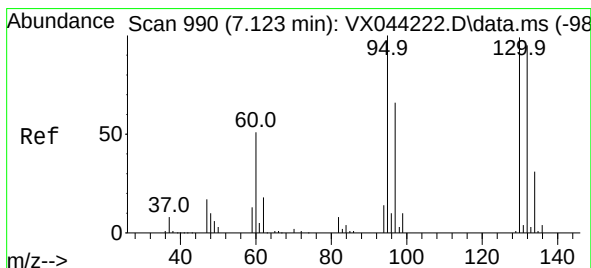
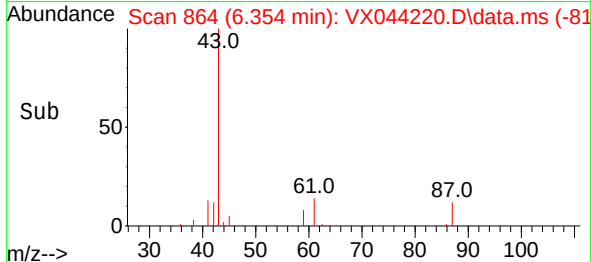
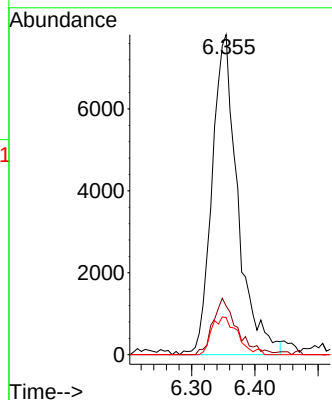
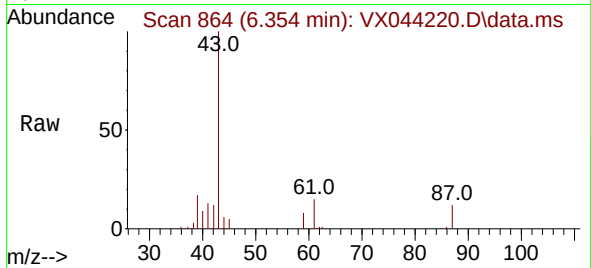




#43
Isopropyl Acetate
Concen: 4.935 ug/l
RT: 6.354 min Scan# 864
Delta R.T. 0.012 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

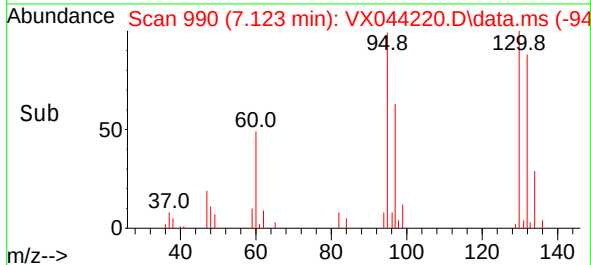
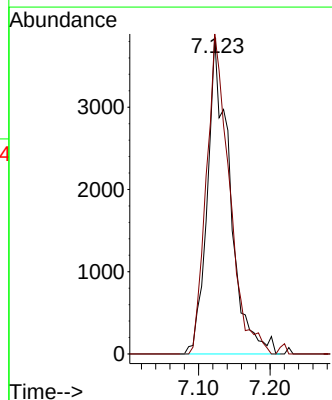
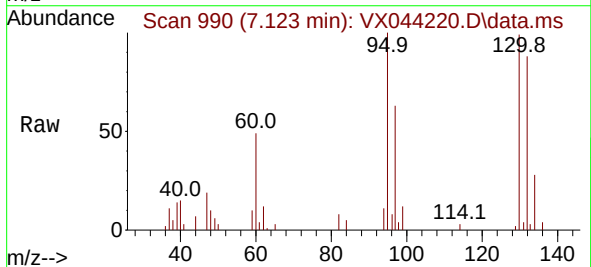
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

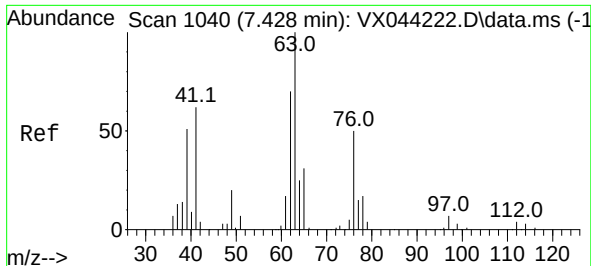
Tgt Ion: 43 Resp: 22098
Ion Ratio Lower Upper
43 100
61 16.5 14.2 21.2
87 11.9 10.2 15.2



#44
Trichloroethene
Concen: 4.790 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:130 Resp: 8405
Ion Ratio Lower Upper
130 100
95 100.9 0.0 201.4





#45

1,2-Dichloropropane

Concen: 4.968 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

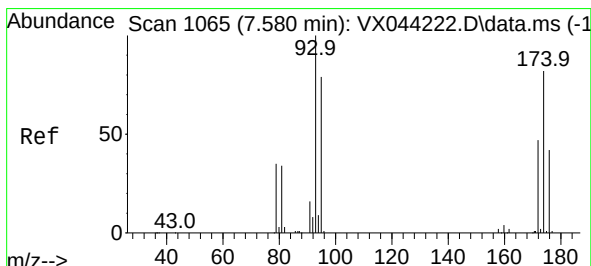
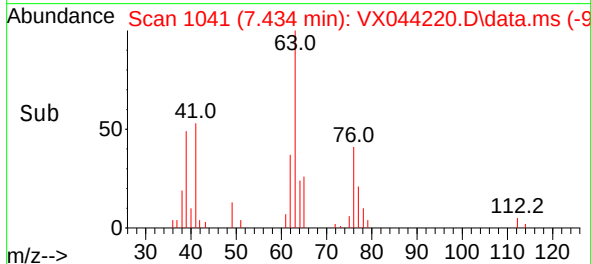
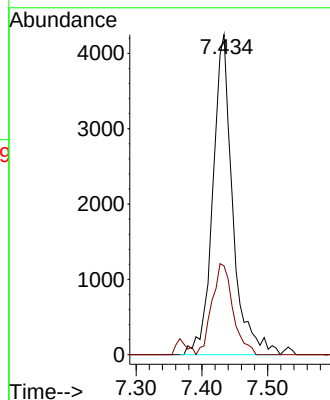
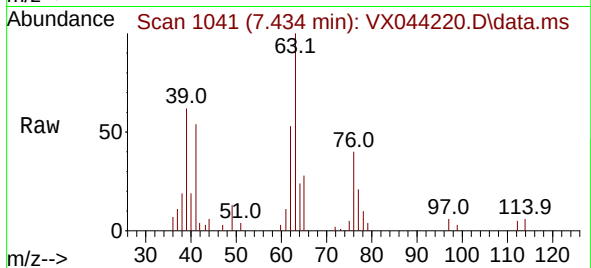
VSTDIC005

Tgt Ion: 63 Resp: 8932

Ion Ratio Lower Upper

63 100

65 27.8 24.6 37.0



#46

Dibromomethane

Concen: 4.958 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

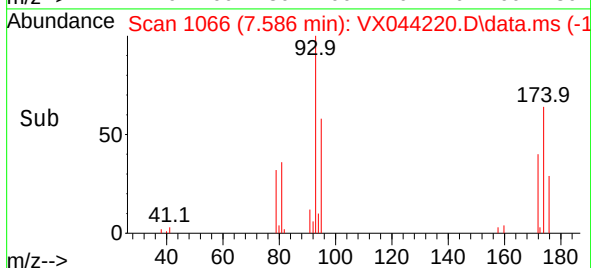
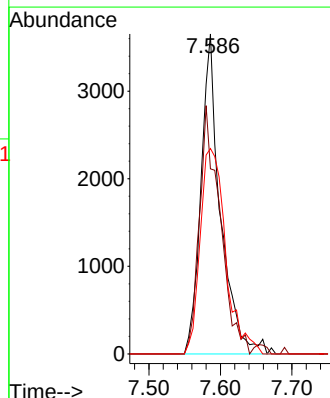
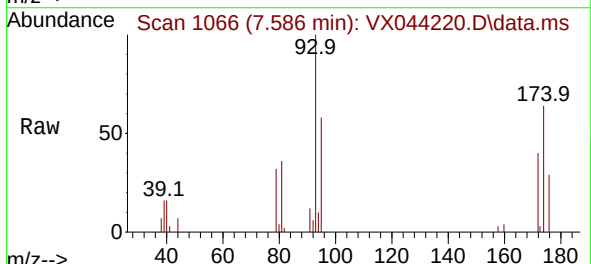
Tgt Ion: 93 Resp: 6915

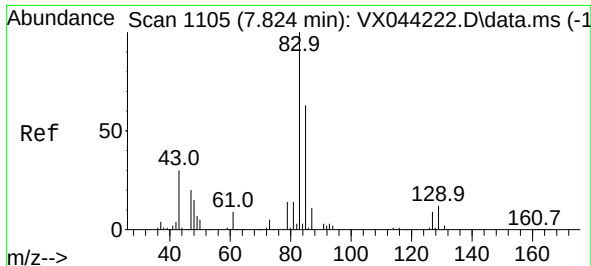
Ion Ratio Lower Upper

93 100

95 82.3 65.4 98.2

174 83.6 67.9 101.9





#47

Bromodichloromethane

Concen: 4.420 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

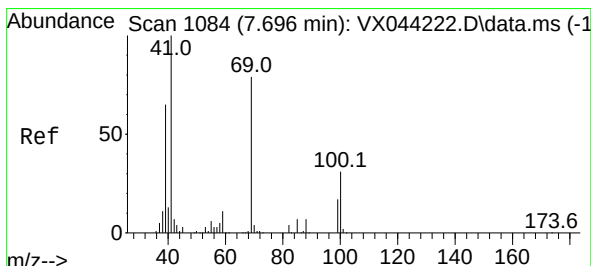
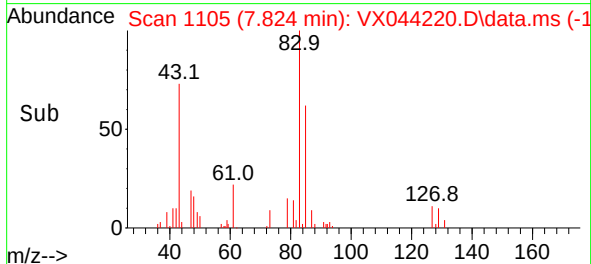
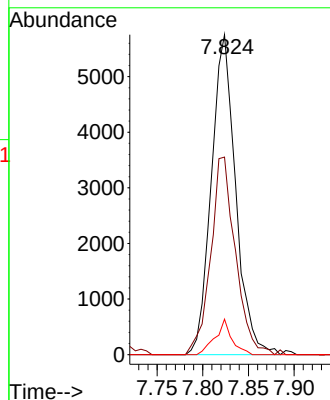
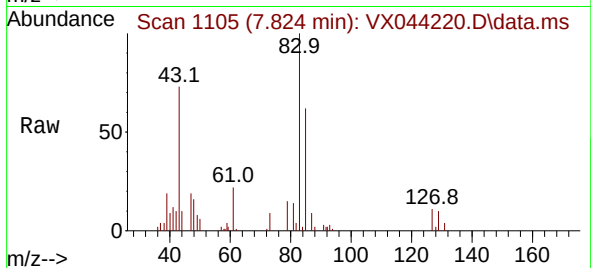
Tgt Ion: 83 Resp: 10646

Ion Ratio Lower Upper

83 100

85 61.7 50.6 75.8

127 11.1 7.3 10.9#



#48

Methyl methacrylate

Concen: 4.410 ug/l

RT: 7.702 min Scan# 1085

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

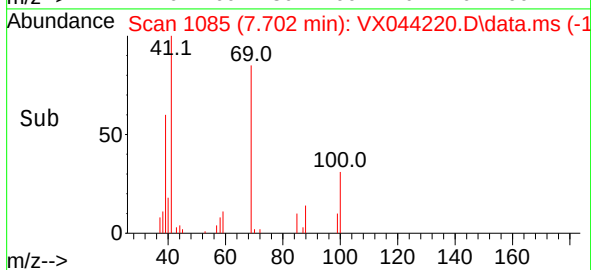
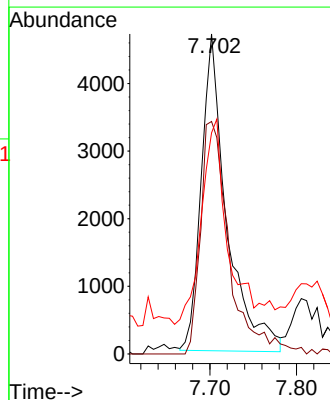
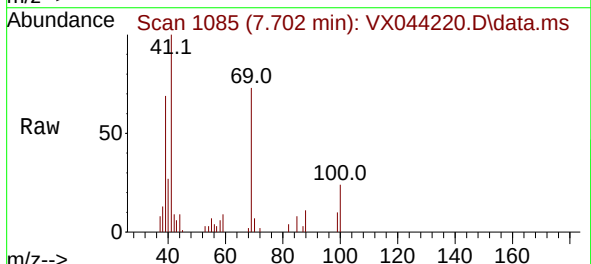
Tgt Ion: 41 Resp: 9586

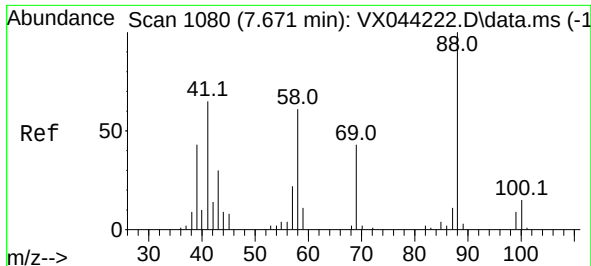
Ion Ratio Lower Upper

41 100

69 82.8 62.4 93.6

39 66.7 53.3 79.9

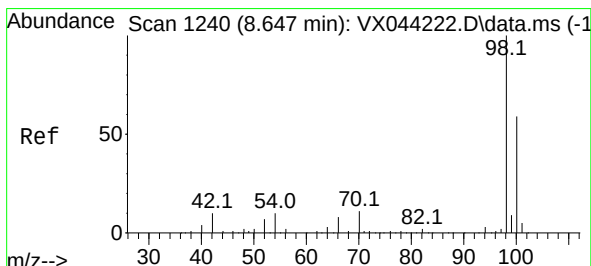
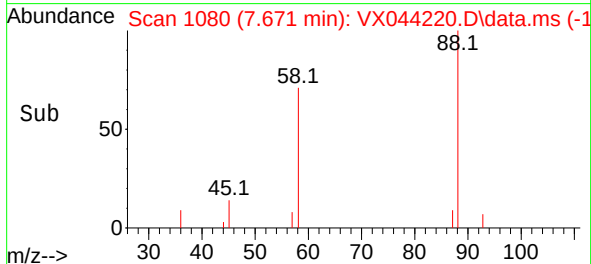
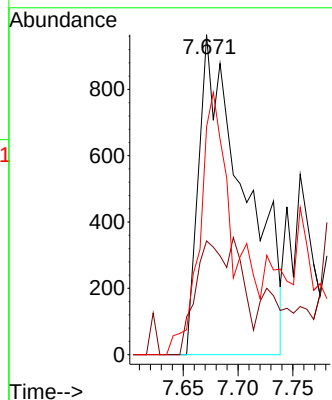
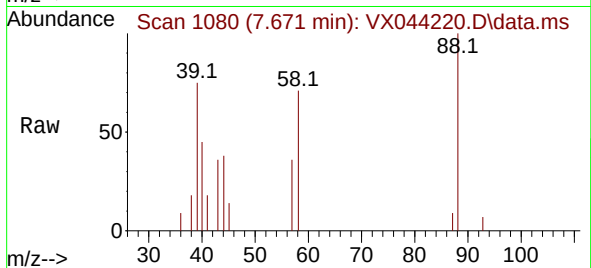




#49
1,4-Dioxane
Concen: 74.917 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

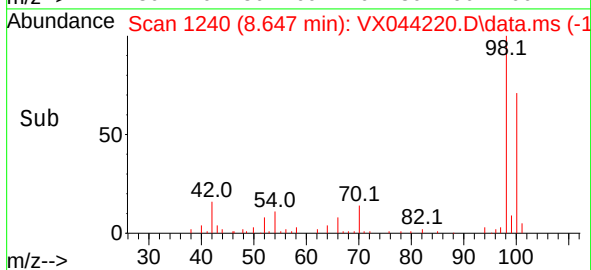
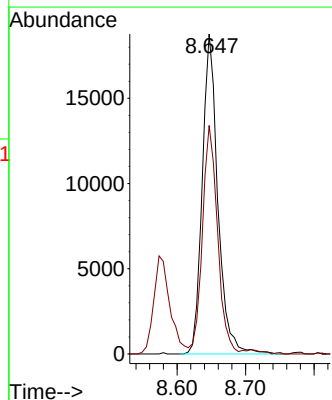
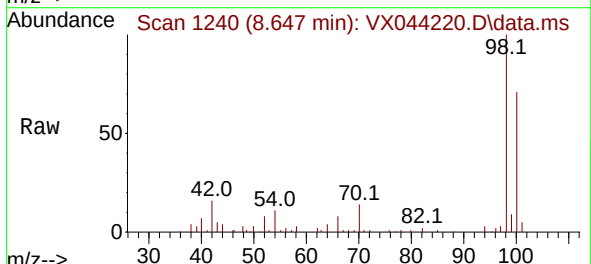
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

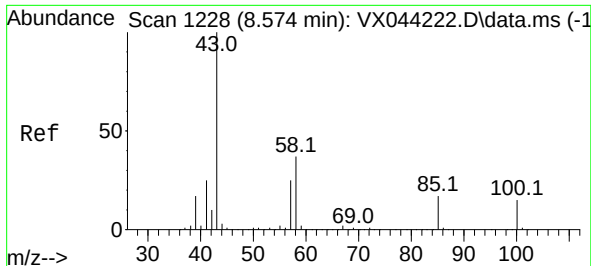
Tgt Ion: 88 Resp: 2783
Ion Ratio Lower Upper
88 100
43 23.3 27.1 40.7#
58 61.6 41.0 61.4#



#50
Toluene-d8
Concen: 4.915 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 98 Resp: 29732
Ion Ratio Lower Upper
98 100
100 67.4 51.5 77.3

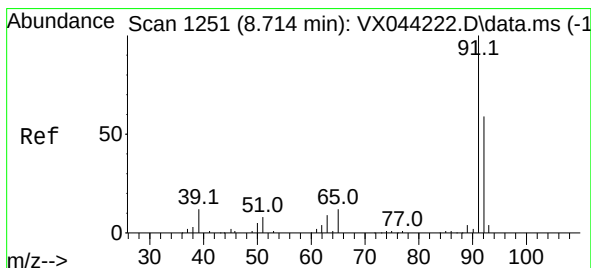
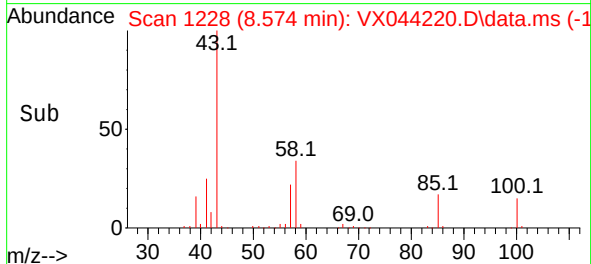
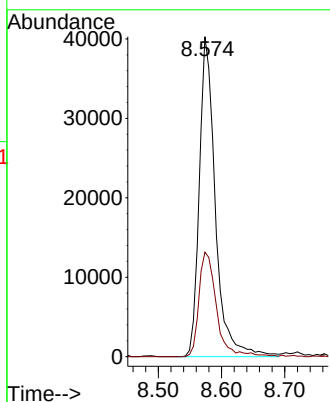
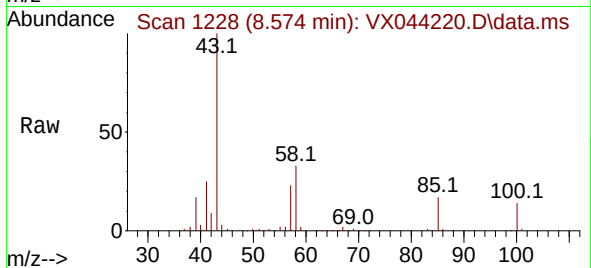




#51
4-Methyl-2-Pentanone
Concen: 24.759 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

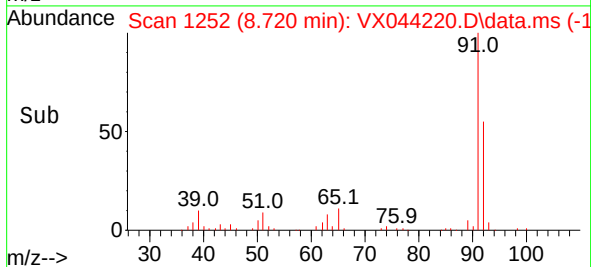
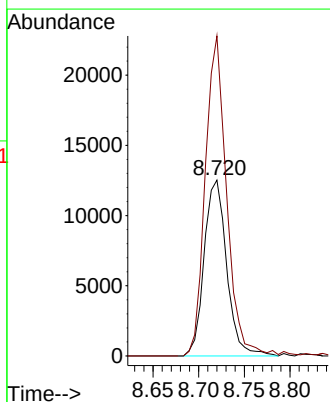
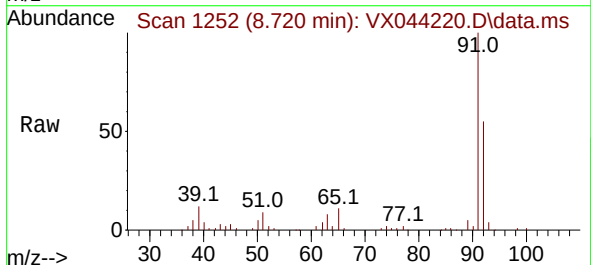
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

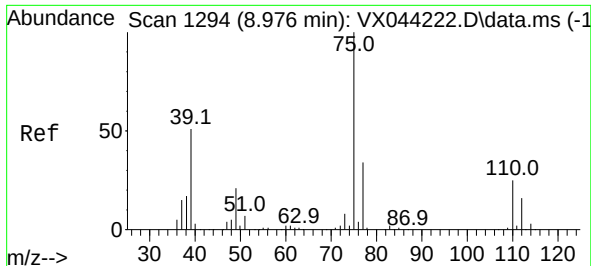
Tgt Ion: 43 Resp: 71285
Ion Ratio Lower Upper
43 100
58 35.7 29.4 44.0



#52
Toluene
Concen: 4.862 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 92 Resp: 21486
Ion Ratio Lower Upper
92 100
91 173.0 137.0 205.6

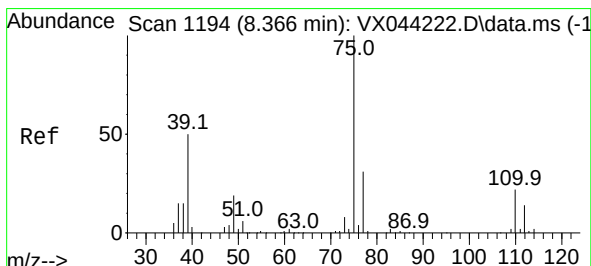
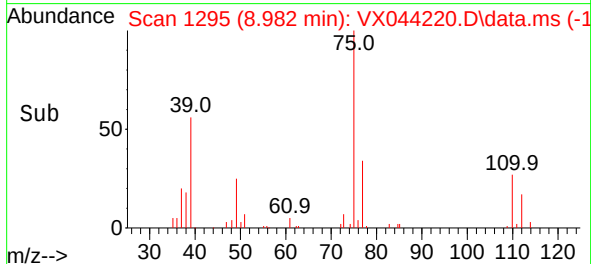
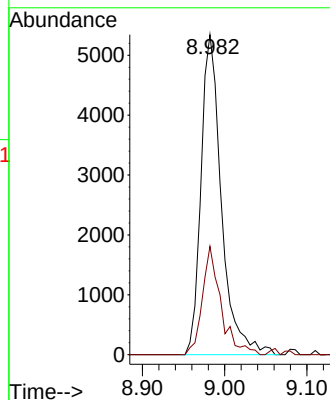
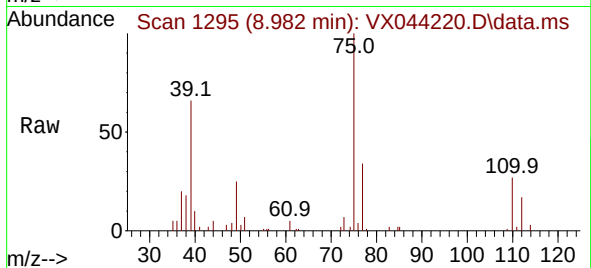




#53
t-1,3-Dichloropropene
Concen: 4.665 ug/l
RT: 8.982 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

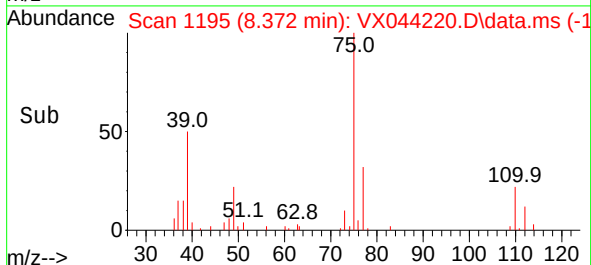
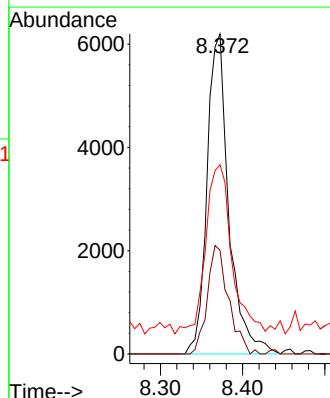
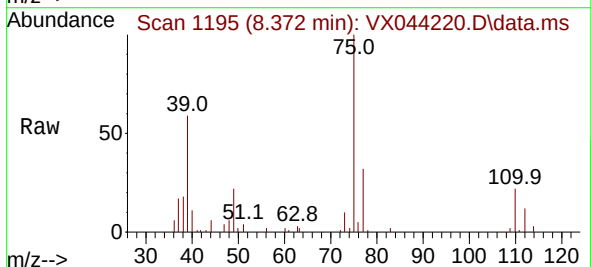
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

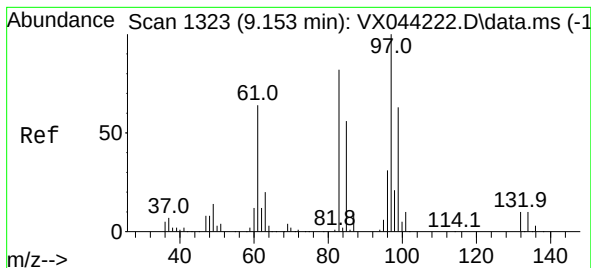
Tgt Ion: 75 Resp: 9232
Ion Ratio Lower Upper
75 100
77 33.8 27.2 40.8



#54
cis-1,3-Dichloropropene
Concen: 4.348 ug/l
RT: 8.372 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 11404
Ion Ratio Lower Upper
75 100
77 32.4 24.7 37.1
39 50.5 40.3 60.5





#55

1,1,2-Trichloroethane

Concen: 4.893 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 97 Resp: 8590

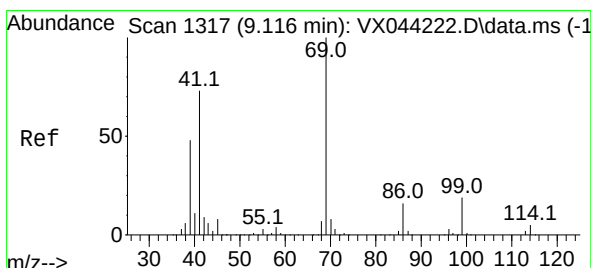
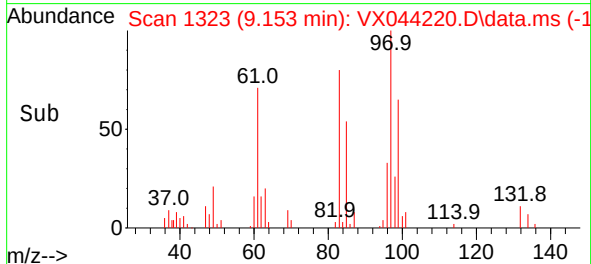
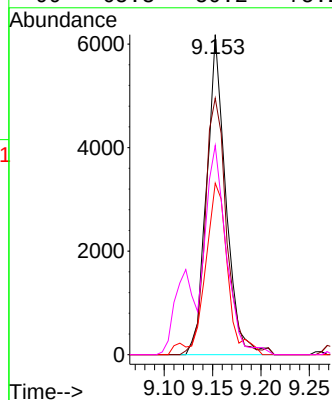
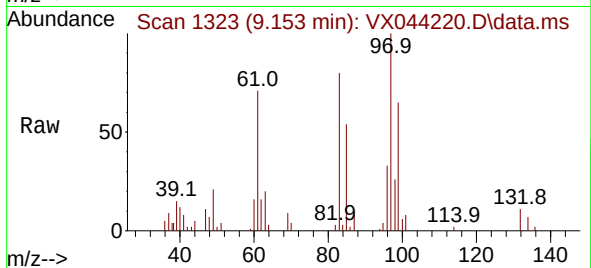
Ion Ratio Lower Upper

97 100

83 80.2 65.3 97.9

85 53.6 44.6 67.0

99 65.3 50.2 75.2



#56

Ethyl methacrylate

Concen: 4.277 ug/l

RT: 9.122 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

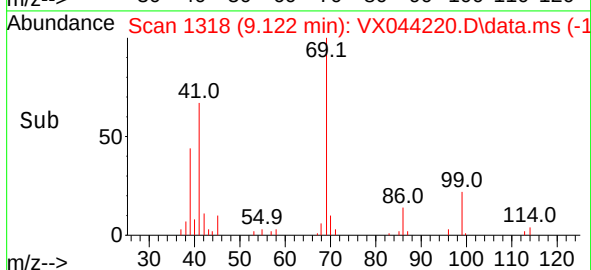
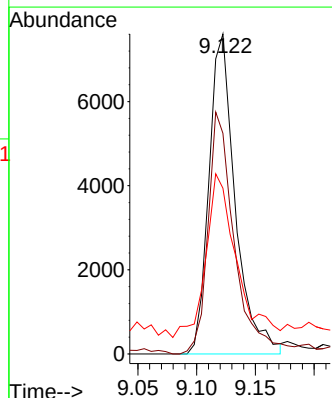
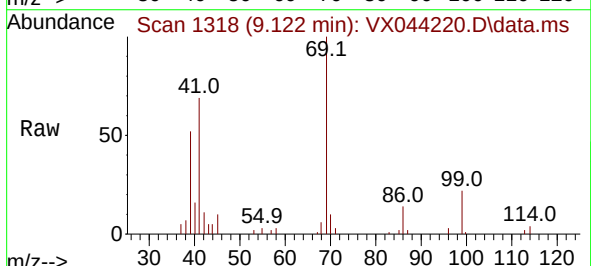
Tgt Ion: 69 Resp: 11854

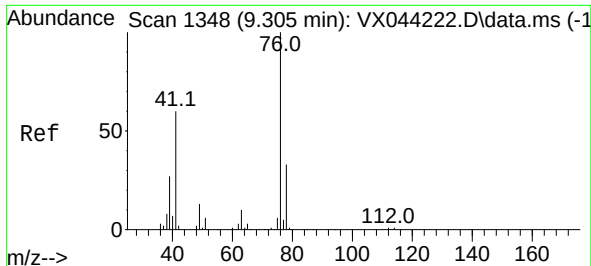
Ion Ratio Lower Upper

69 100

41 76.0 56.6 85.0

39 58.7 37.4 56.0#

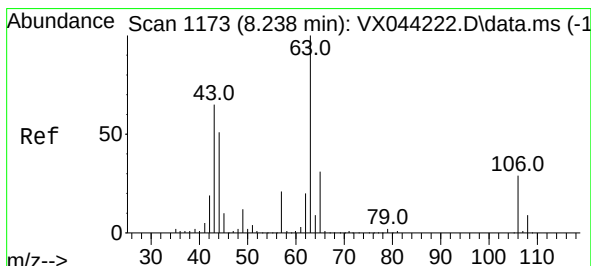
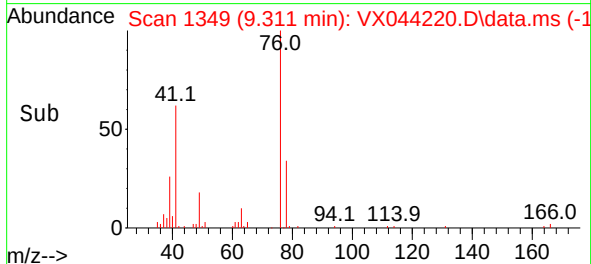
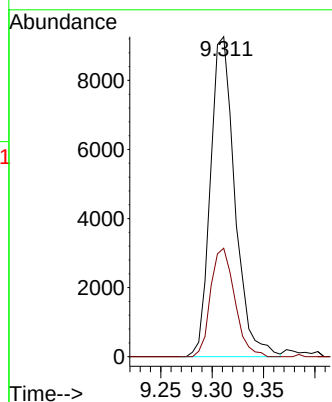
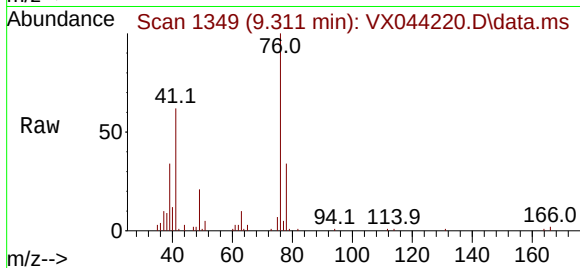




#57
1,3-Dichloropropane
Concen: 5.024 ug/l
RT: 9.311 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

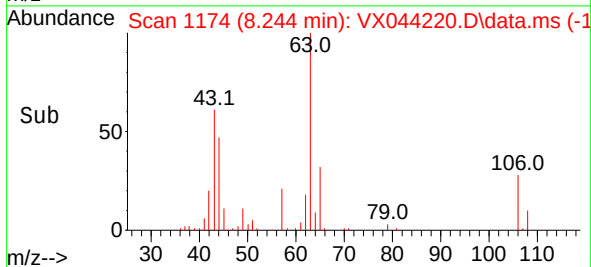
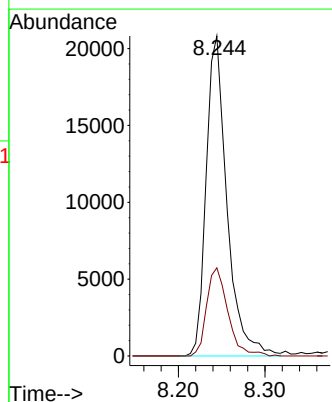
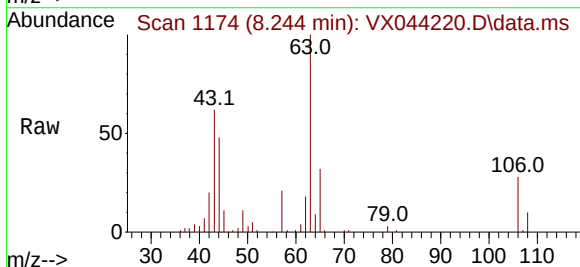
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

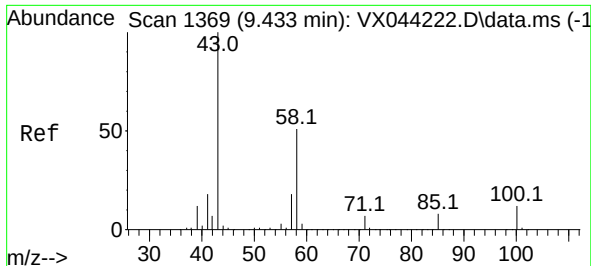
Tgt Ion: 76 Resp: 15352
Ion Ratio Lower Upper
76 100
78 33.3 26.5 39.7



#58
2-Chloroethyl Vinyl ether
Concen: 24.852 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 63 Resp: 34738
Ion Ratio Lower Upper
63 100
106 28.1 22.8 34.2

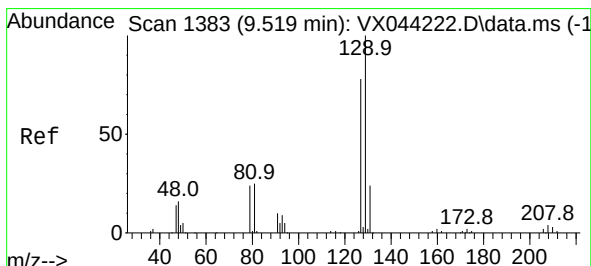
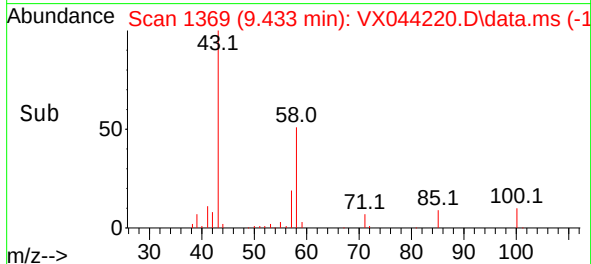
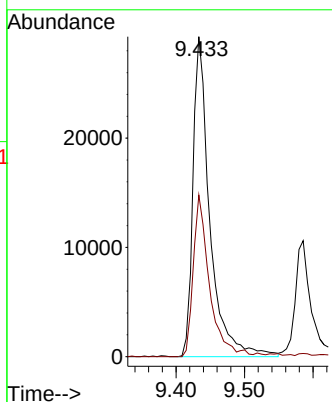
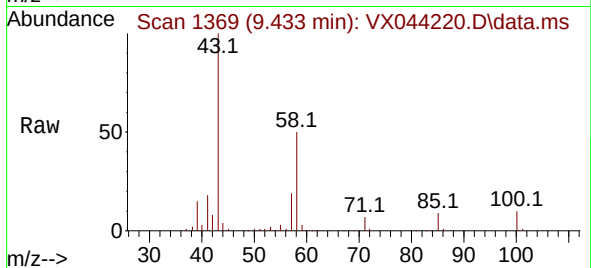




#59
2-Hexanone
Concen: 23.994 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

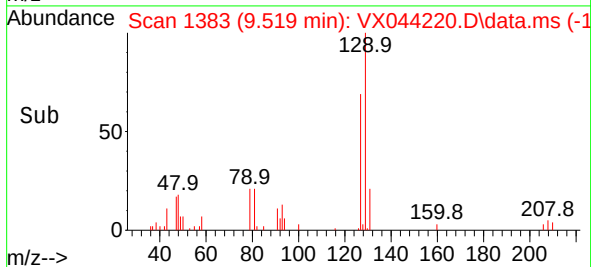
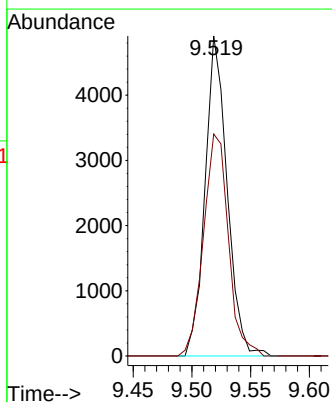
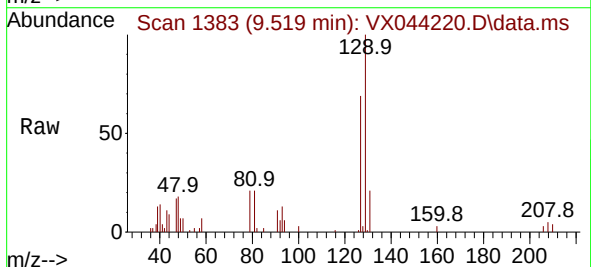
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

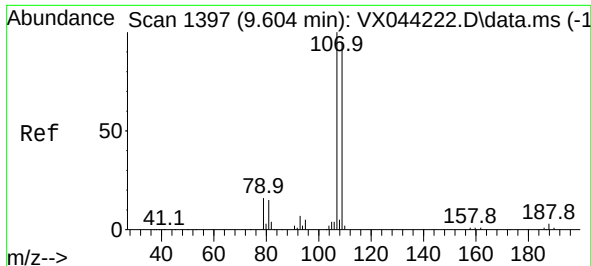
Tgt Ion: 43 Resp: 50003
Ion Ratio Lower Upper
43 100
58 48.6 25.7 77.0



#60
Dibromochloromethane
Concen: 4.738 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 129 Resp: 6411
Ion Ratio Lower Upper
129 100
127 78.3 38.5 115.3





#61

1,2-Dibromoethane

Concen: 4.662 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

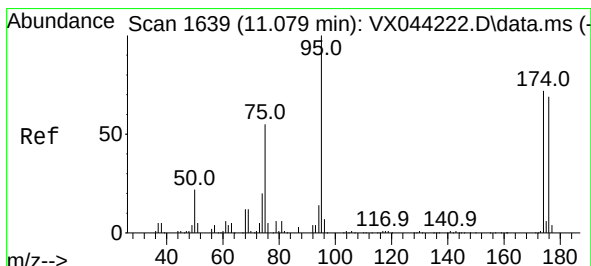
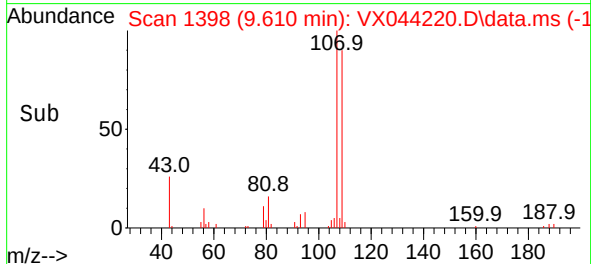
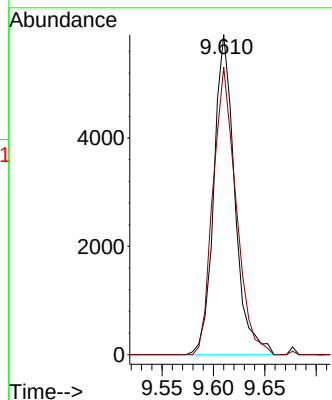
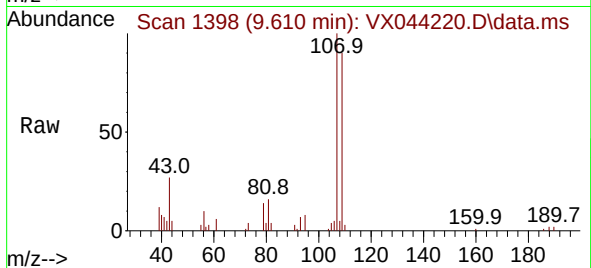
VSTDIC005

Tgt Ion:107 Resp: 8330

Ion Ratio Lower Upper

107 100

109 99.5 77.0 115.4



#62

4-Bromofluorobenzene

Concen: 4.779 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

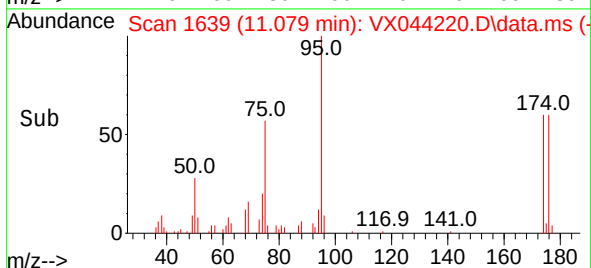
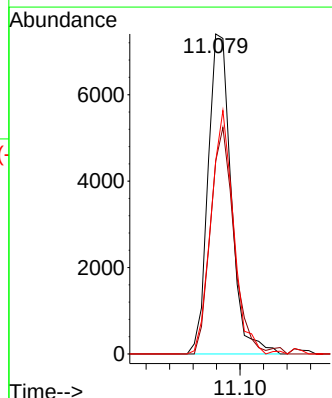
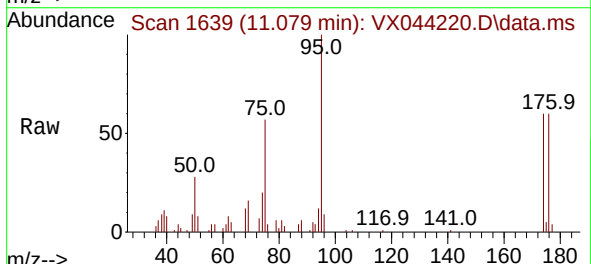
Tgt Ion: 95 Resp: 10101

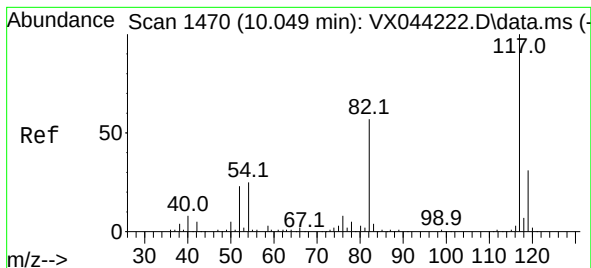
Ion Ratio Lower Upper

95 100

174 72.5 0.0 145.8

176 74.4 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

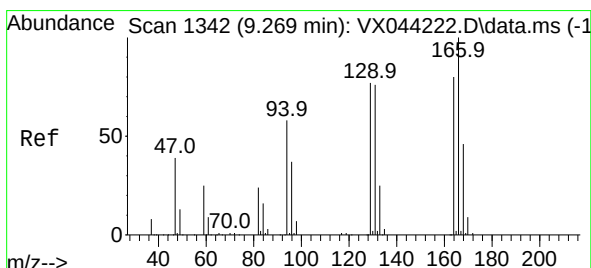
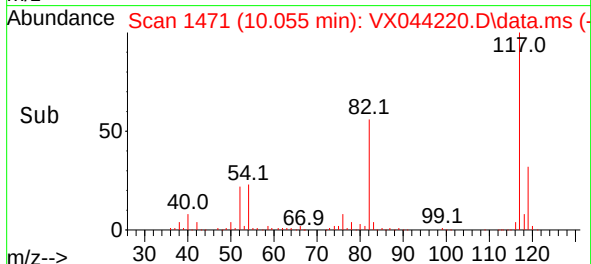
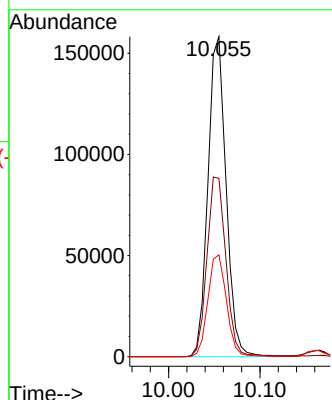
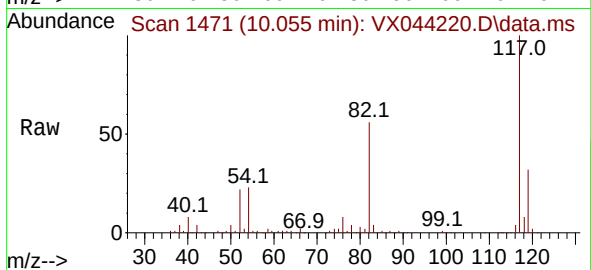
Tgt Ion:117 Resp: 217783

Ion Ratio Lower Upper

117 100

82 55.8 45.8 68.8

119 31.9 25.0 37.4



#64

Tetrachloroethene

Concen: 5.334 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Tgt Ion:164 Resp: 7710

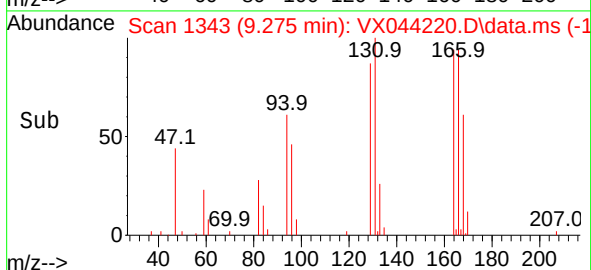
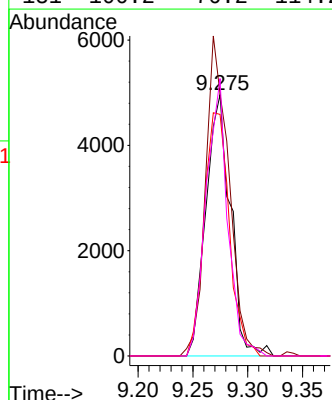
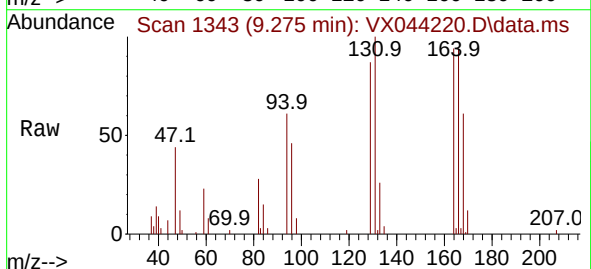
Ion Ratio Lower Upper

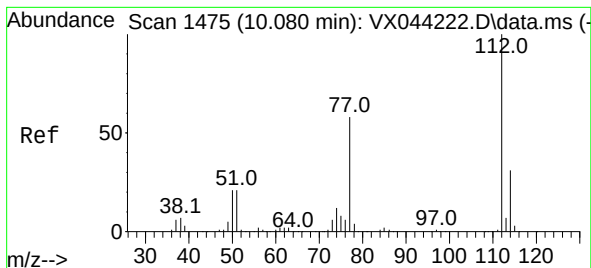
164 100

166 100.3 100.4 150.6#

129 92.5 77.2 115.8

131 106.2 76.2 114.2

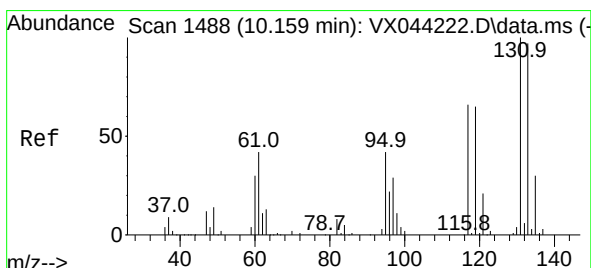
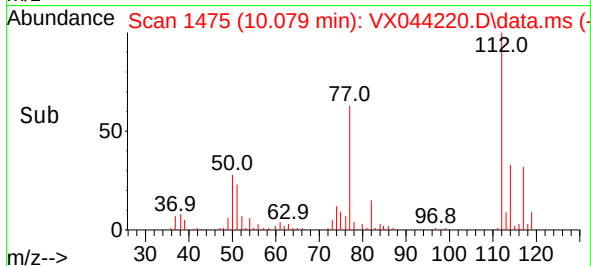
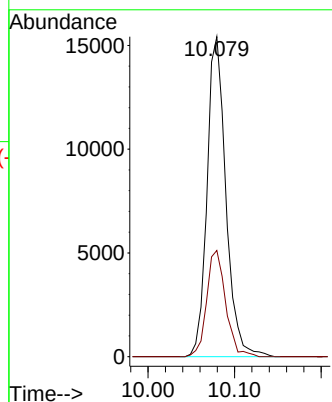
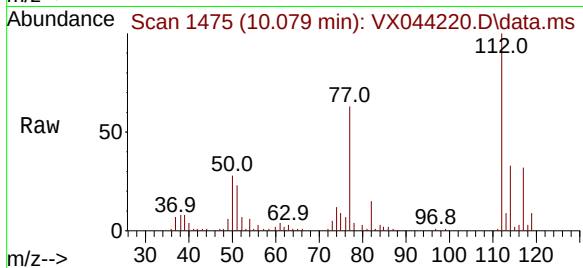




#65
Chlorobenzene
Concen: 4.986 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

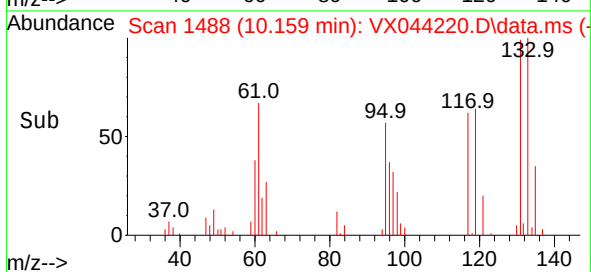
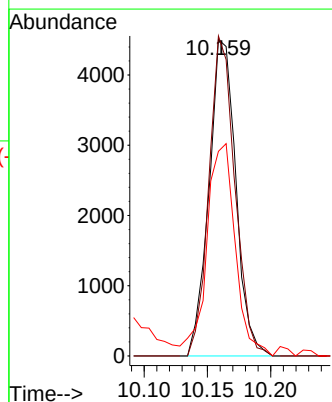
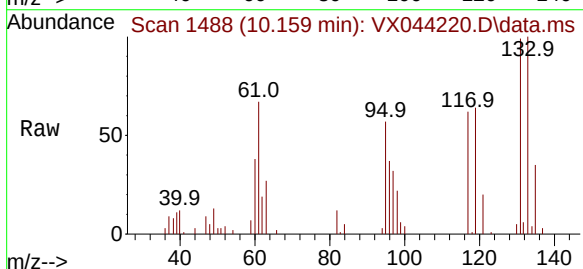
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

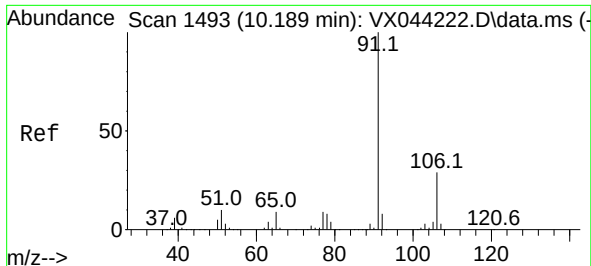
Tgt Ion:112 Resp: 23268
Ion Ratio Lower Upper
112 100
114 33.2 25.0 37.6



#66
1,1,1,2-Tetrachloroethane
Concen: 4.432 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:131 Resp: 6647
Ion Ratio Lower Upper
131 100
133 97.7 47.3 141.8
119 70.8 31.6 95.0





#67

Ethyl Benzene

Concen: 4.877 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

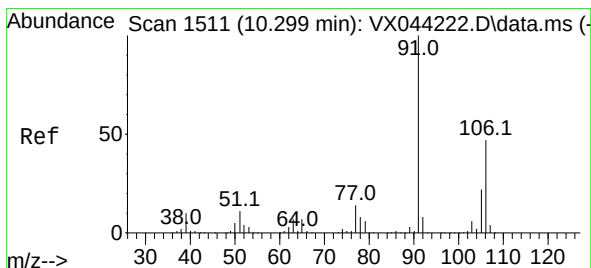
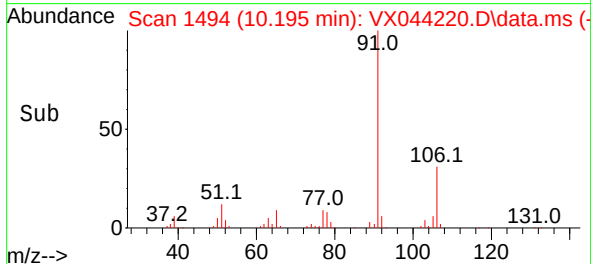
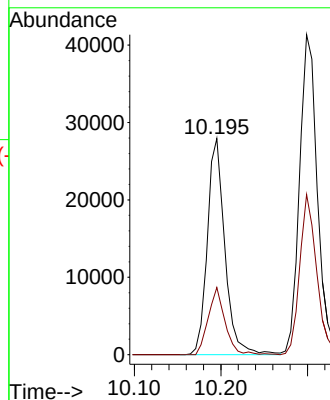
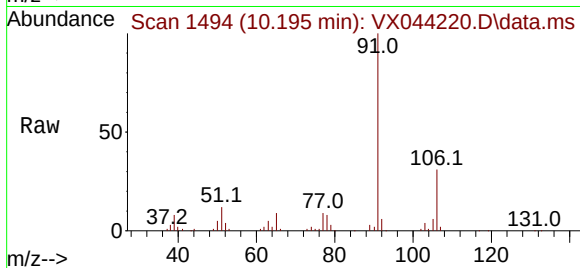
VSTDIC005

Tgt Ion: 91 Resp: 39326

Ion Ratio Lower Upper

91 100

106 31.1 23.5 35.3



#68

m/p-Xylenes

Concen: 9.720 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX044220.D

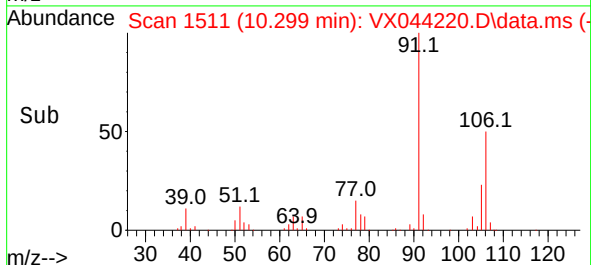
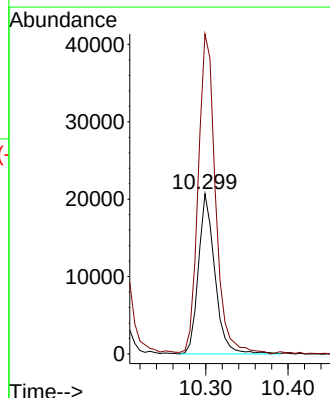
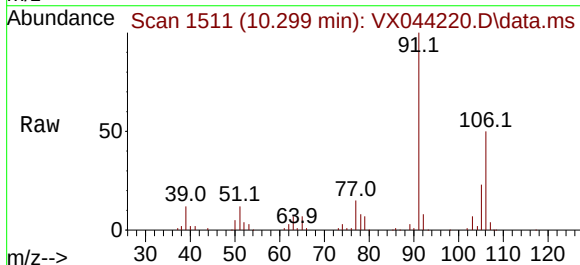
Acq: 11 Dec 2024 11:27

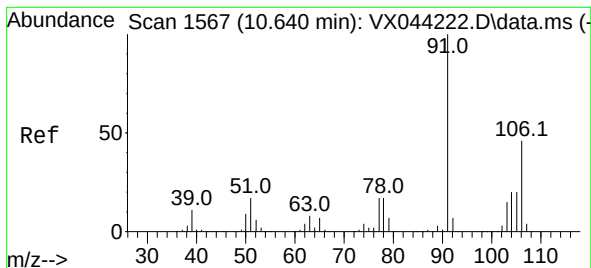
Tgt Ion: 106 Resp: 28758

Ion Ratio Lower Upper

106 100

91 210.2 170.2 255.2





#69

o-Xylene

Concen: 4.965 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

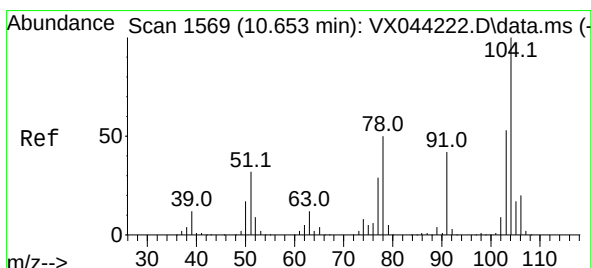
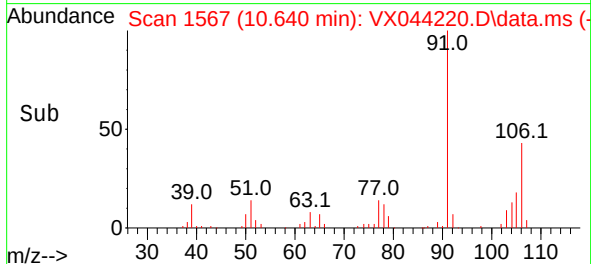
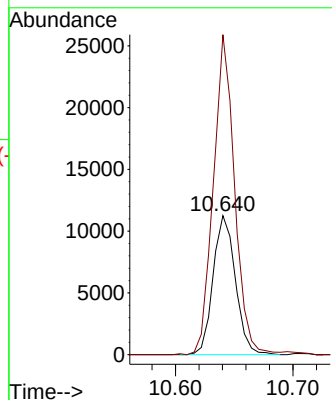
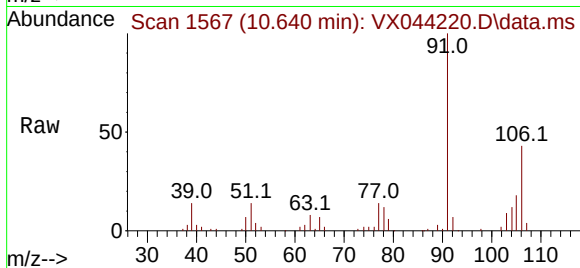
VSTDICC005

Tgt Ion:106 Resp: 14864

Ion Ratio Lower Upper

106 100

91 219.3 112.3 337.0



#70

Styrene

Concen: 4.624 ug/l

RT: 10.659 min Scan# 1570

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

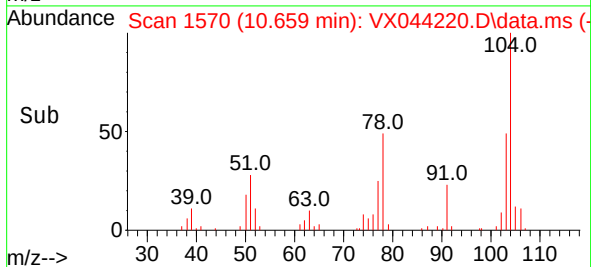
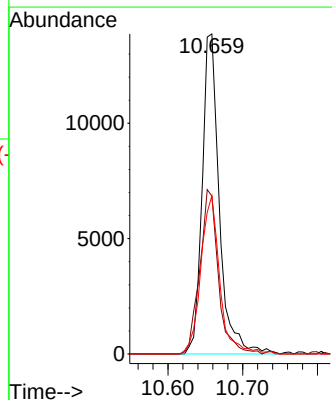
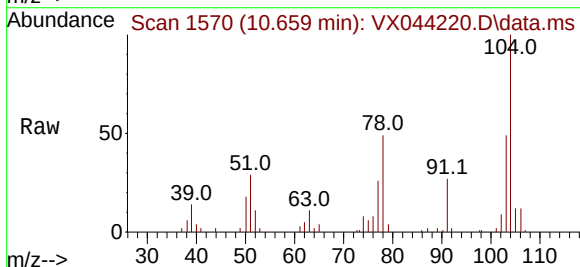
Tgt Ion:104 Resp: 22191

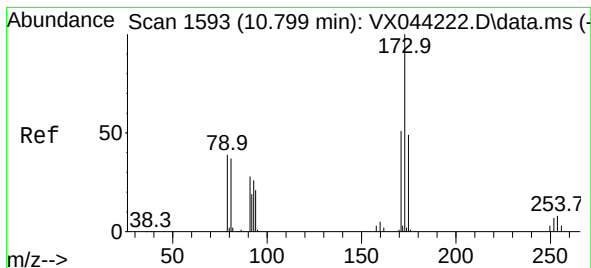
Ion Ratio Lower Upper

104 100

78 55.5 44.6 67.0

103 54.6 45.4 68.0





#71

Bromoform

Concen: 5.118 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

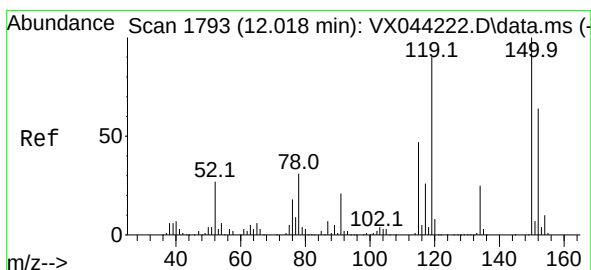
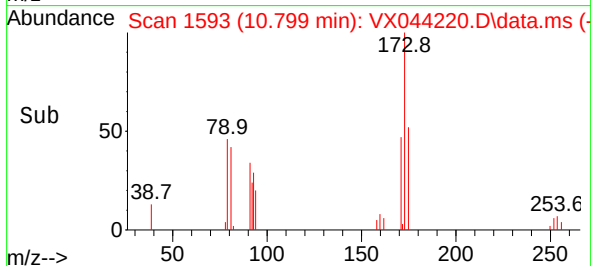
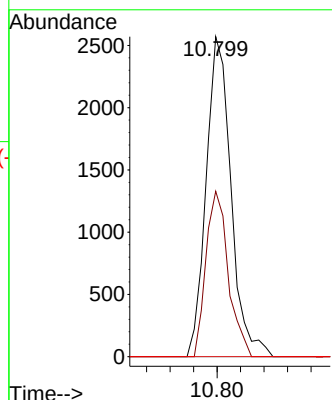
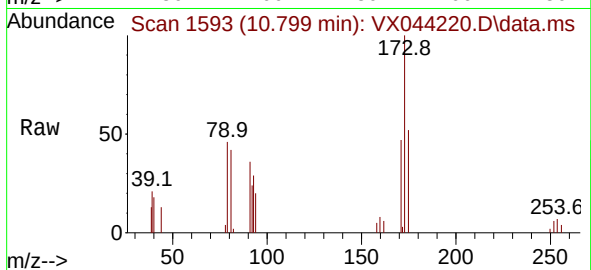
Tgt Ion:173 Resp: 3775

Ion Ratio Lower Upper

173 100

175 46.3 23.8 71.4

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

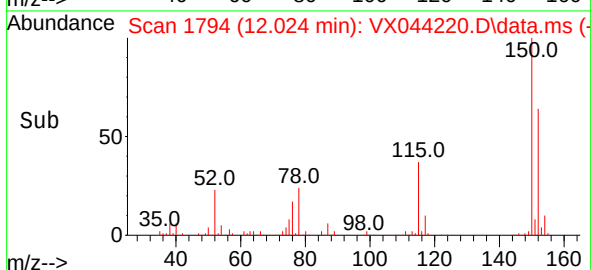
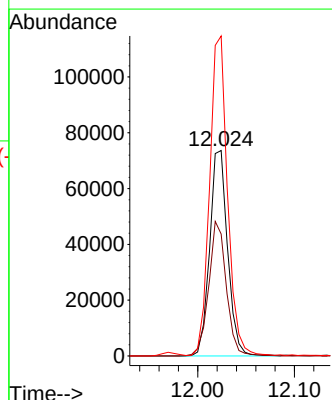
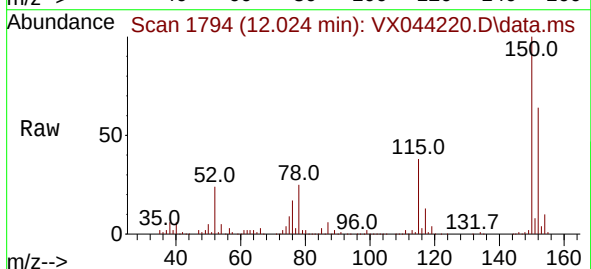
Tgt Ion:152 Resp: 95175

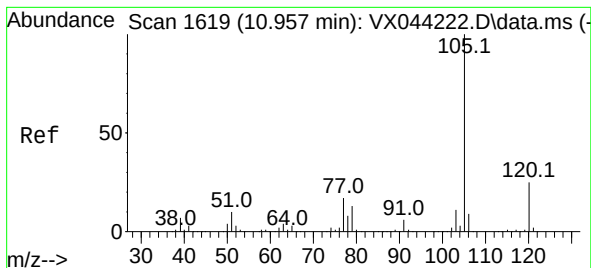
Ion Ratio Lower Upper

152 100

115 64.2 44.5 133.3

150 154.3 0.0 353.8





#73

Isopropylbenzene

Concen: 5.194 ug/l

RT: 10.963 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

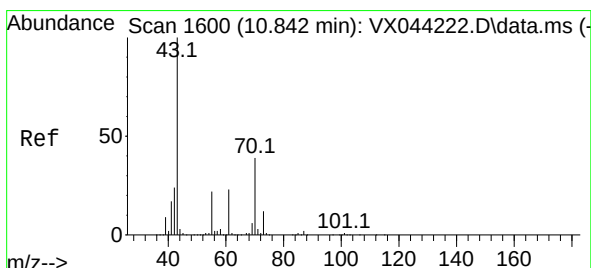
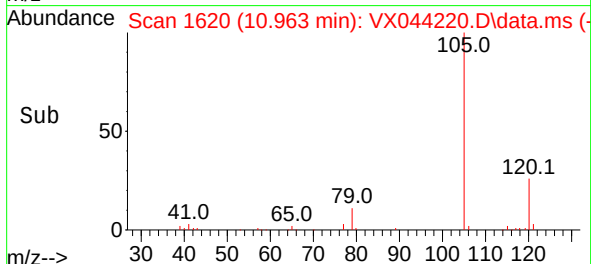
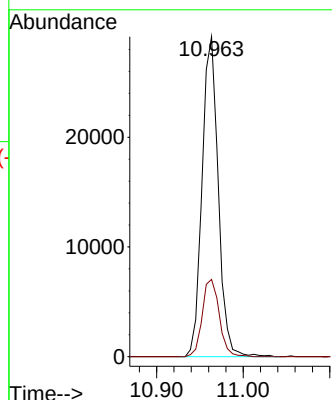
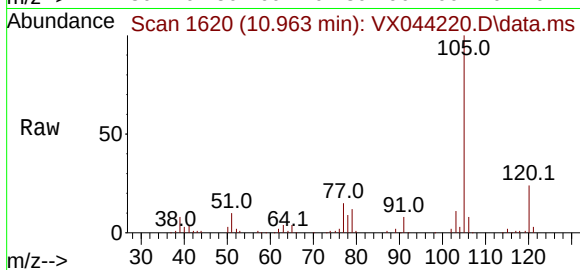
VSTDICC005

Tgt Ion:105 Resp: 37843

Ion Ratio Lower Upper

105 100

120 25.4 13.1 39.3



#74

N-ethyl acetate

Concen: 4.579 ug/l

RT: 10.842 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 15418

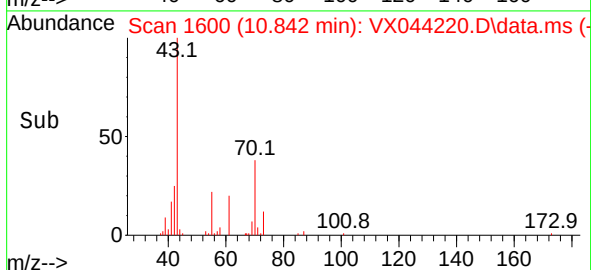
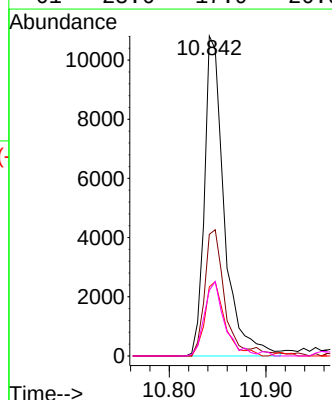
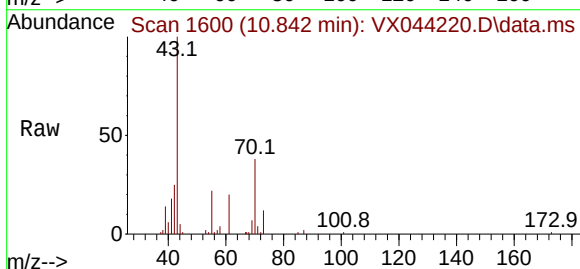
Ion Ratio Lower Upper

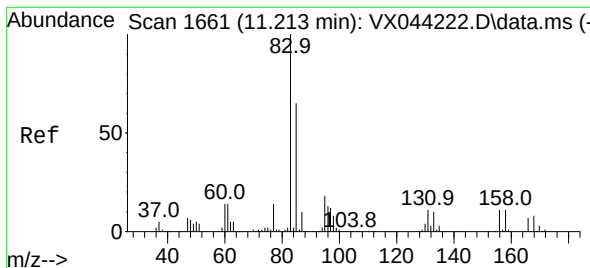
43 100

70 41.2 31.9 47.9

55 23.7 17.9 26.9

61 23.6 17.9 26.9

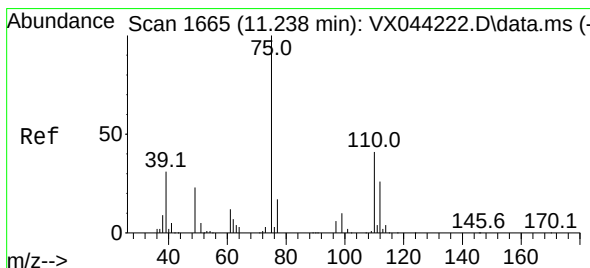
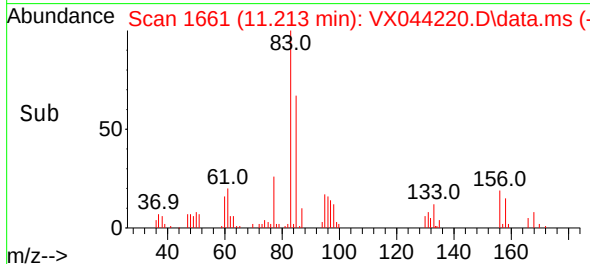
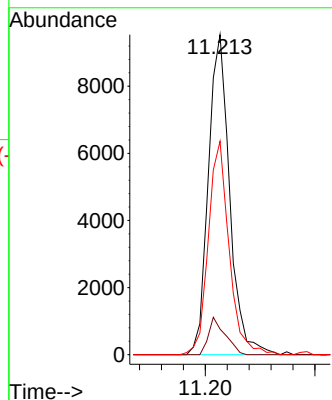
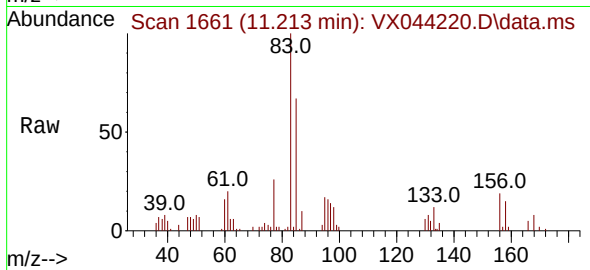




#75
1,1,2,2-Tetrachloroethane
Concen: 5.077 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

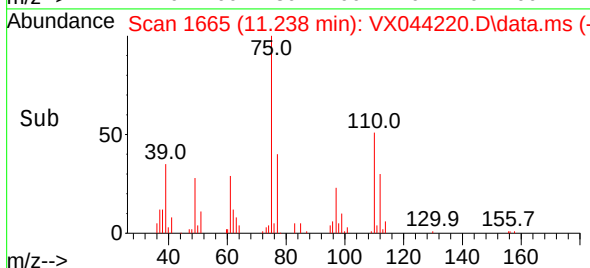
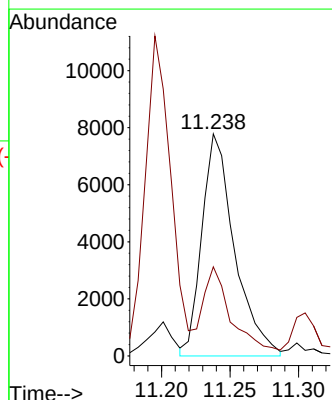
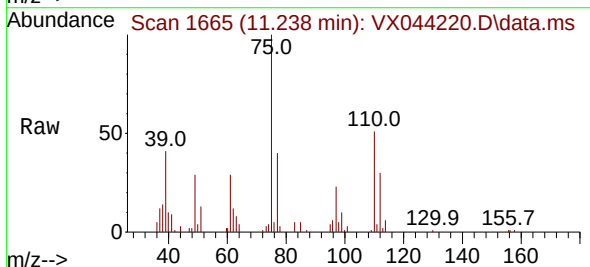
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

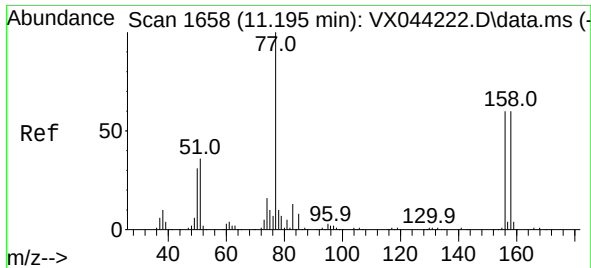
Tgt Ion: 83 Resp: 12848
Ion Ratio Lower Upper
83 100
131 9.1 5.1 15.4
85 65.3 32.5 97.4



#76
1,2,3-Trichloropropane
Concen: 5.974 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 12901
Ion Ratio Lower Upper
75 100
77 36.0 20.9 62.7

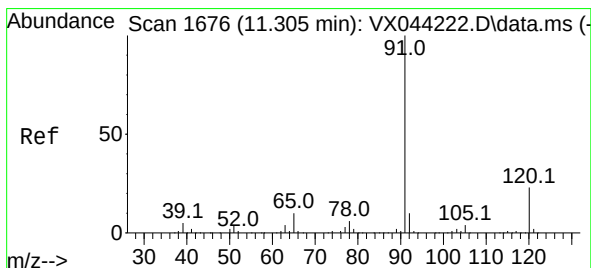
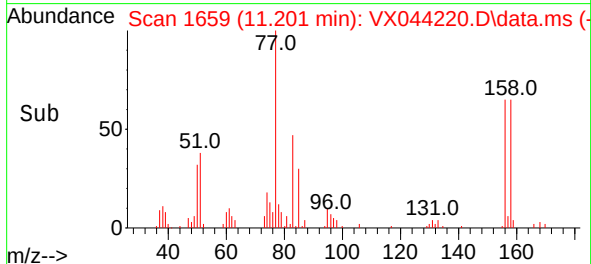
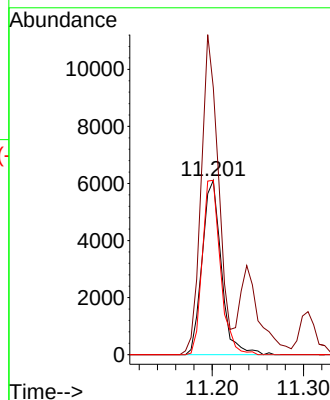
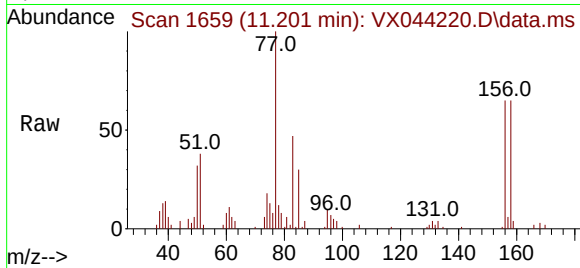




#77
Bromobenzene
Concen: 5.033 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

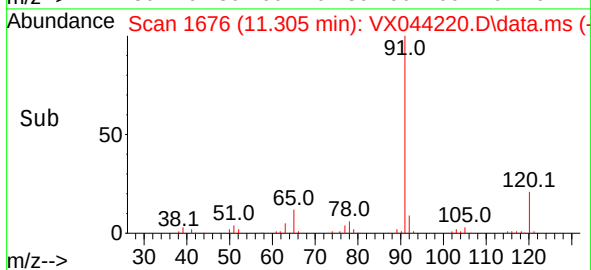
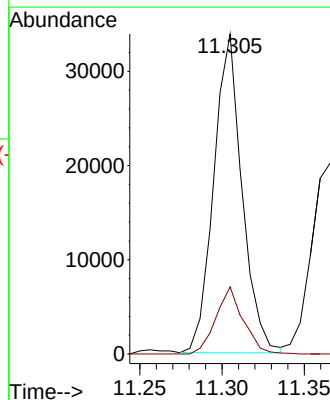
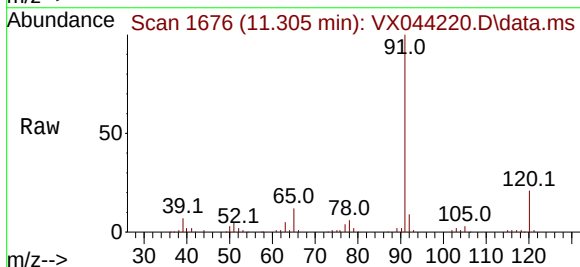
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

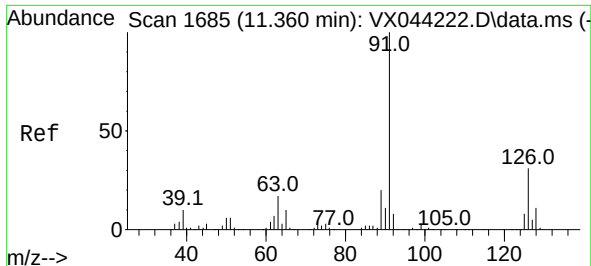
Tgt Ion:156 Resp: 8892
Ion Ratio Lower Upper
156 100
77 165.4 82.6 247.8
158 94.7 48.8 146.4



#78
n-propylbenzene
Concen: 5.038 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 91 Resp: 40574
Ion Ratio Lower Upper
91 100
120 20.3 11.0 33.0





#79

2-Chlorotoluene

Concen: 5.203 ug/l

RT: 11.366 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

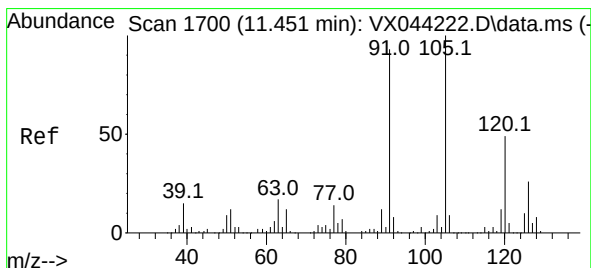
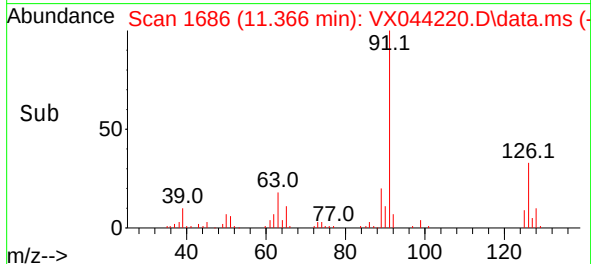
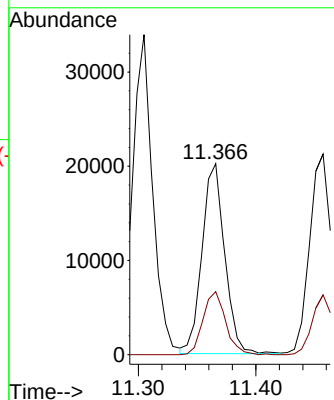
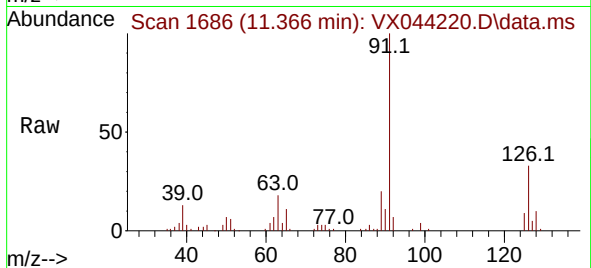
VSTDICC005

Tgt Ion: 91 Resp: 27096

Ion Ratio Lower Upper

91 100

126 33.0 16.4 49.1



#80

1,3,5-Trimethylbenzene

Concen: 5.075 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX044220.D

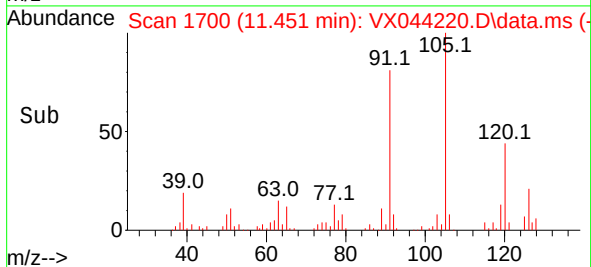
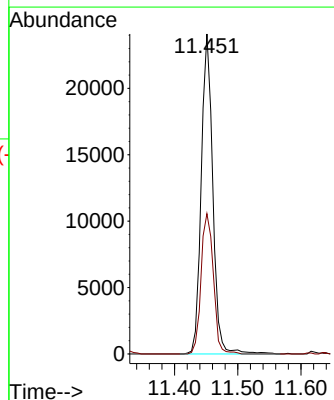
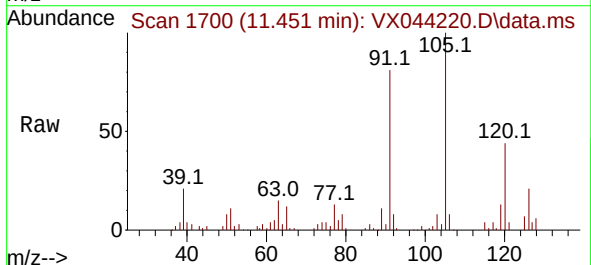
Acq: 11 Dec 2024 11:27

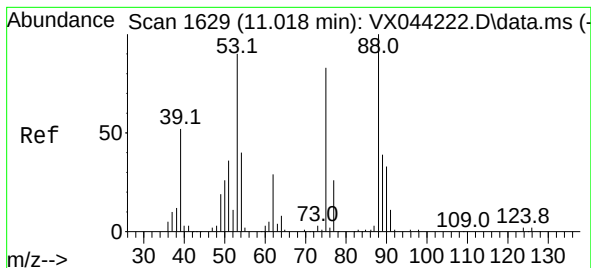
Tgt Ion:105 Resp: 30665

Ion Ratio Lower Upper

105 100

120 46.6 23.8 71.4

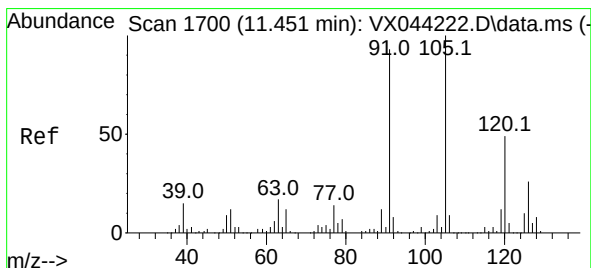
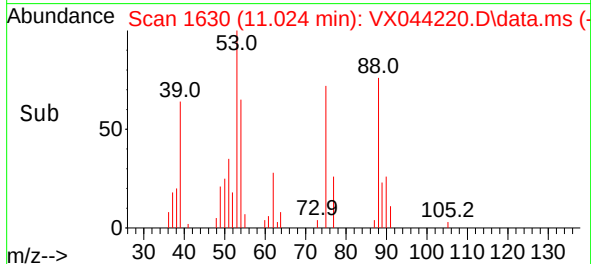
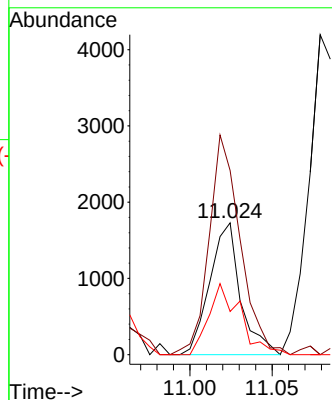
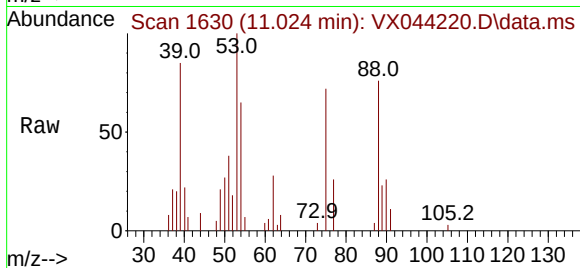




#81
trans-1,4-Dichloro-2-butene
Concen: 8.273 ug/l
RT: 11.024 min Scan# 1630
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

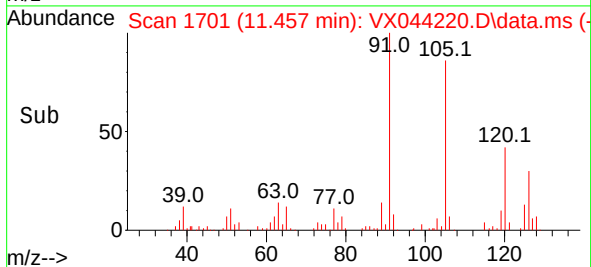
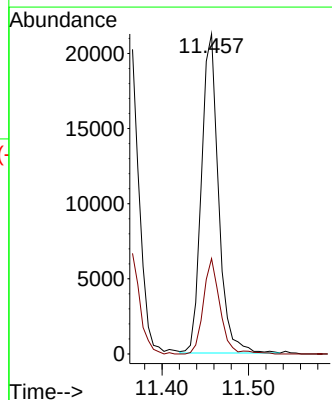
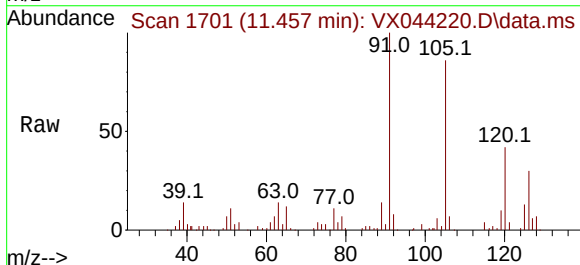
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

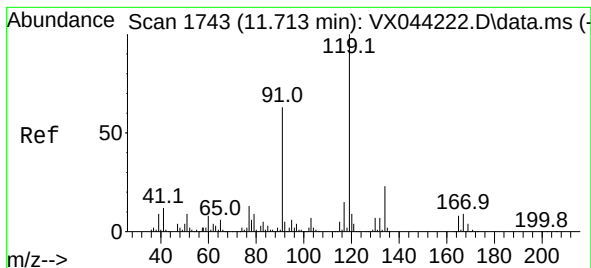
Tgt Ion: 75 Resp: 2249
Ion Ratio Lower Upper
75 100
53 168.9 93.6 140.4#
89 55.5 37.3 55.9



#82
4-Chlorotoluene
Concen: 5.035 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 91 Resp: 29039
Ion Ratio Lower Upper
91 100
126 29.3 14.5 43.5





#83

tert-Butylbenzene

Concen: 4.904 ug/l

RT: 11.713 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

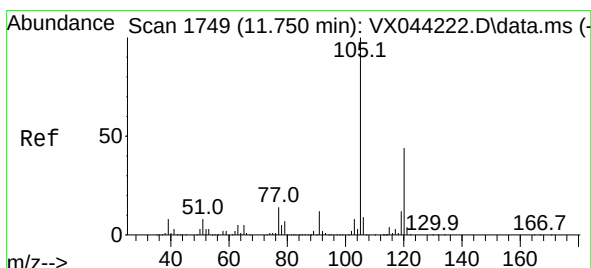
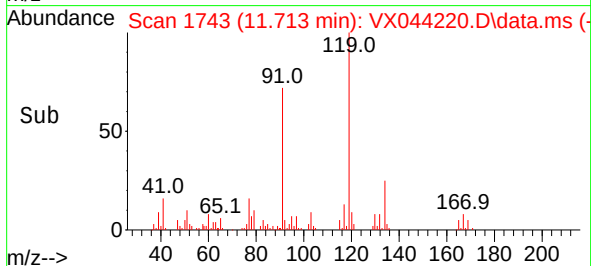
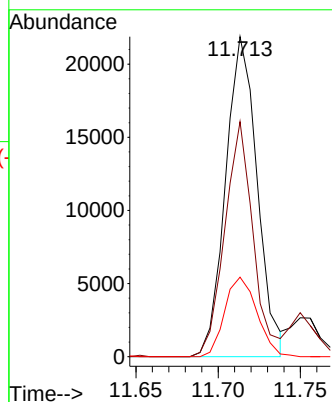
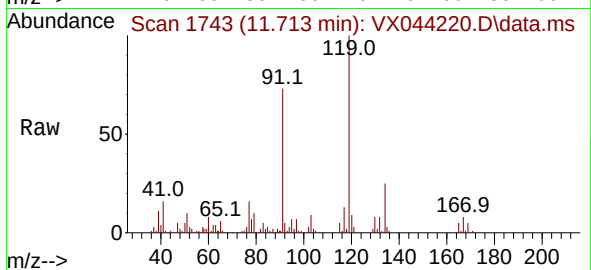
Tgt Ion:119 Resp: 29283

Ion Ratio Lower Upper

119 100

91 65.9 30.9 92.5

134 25.3 11.5 34.4



#84

1,2,4-Trimethylbenzene

Concen: 5.219 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX044220.D

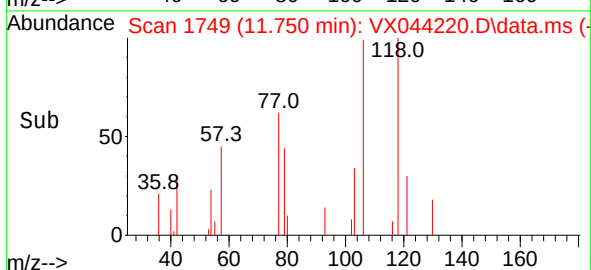
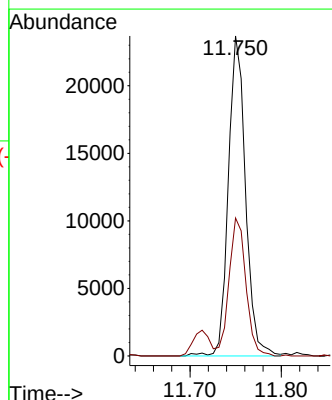
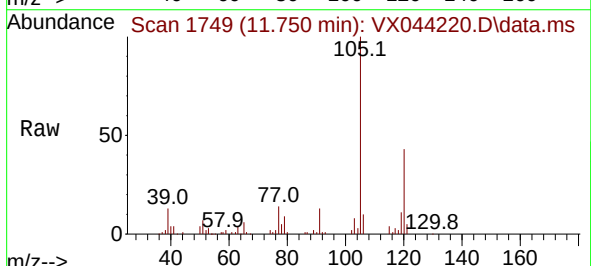
Acq: 11 Dec 2024 11:27

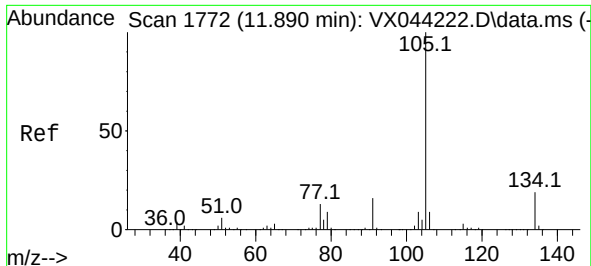
Tgt Ion:105 Resp: 30970

Ion Ratio Lower Upper

105 100

120 42.6 21.7 65.1

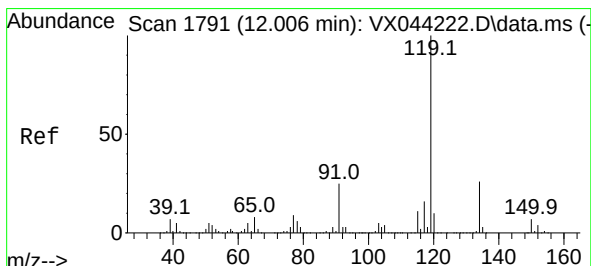
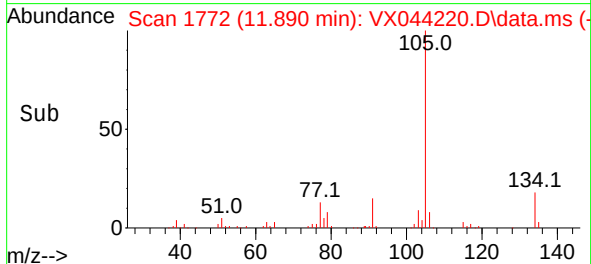
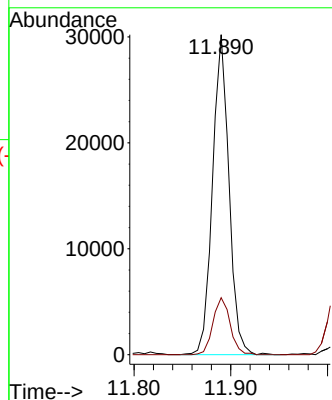
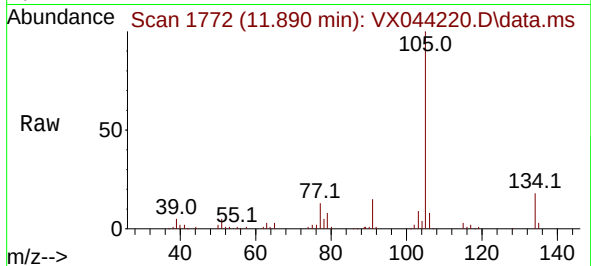




#85
sec-Butylbenzene
Concen: 4.921 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

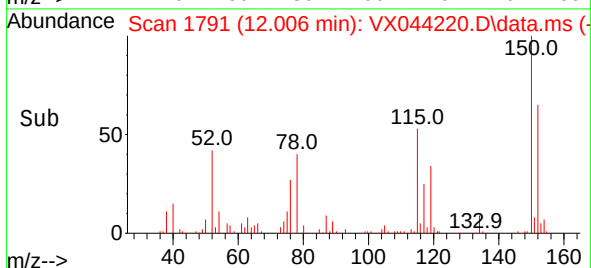
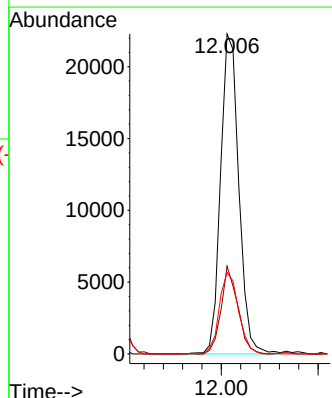
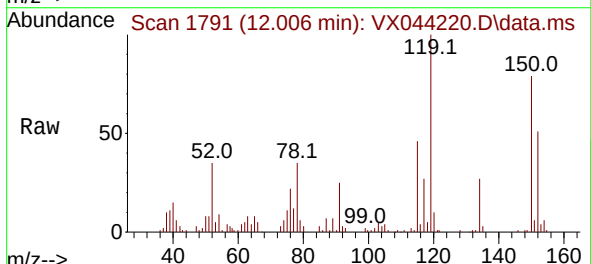
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

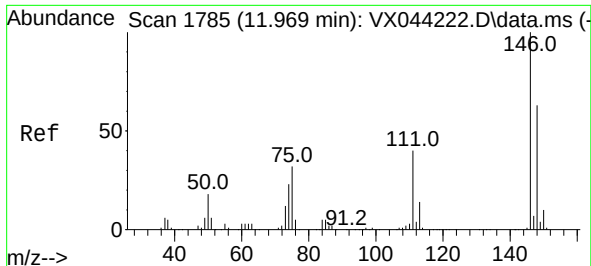
Tgt Ion:105 Resp: 35670
Ion Ratio Lower Upper
105 100
134 18.6 9.8 29.4



#86
p-Isopropyltoluene
Concen: 4.828 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:119 Resp: 29132
Ion Ratio Lower Upper
119 100
134 25.1 12.8 38.4
91 26.9 13.0 39.0





#87

1,3-Dichlorobenzene

Concen: 5.039 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

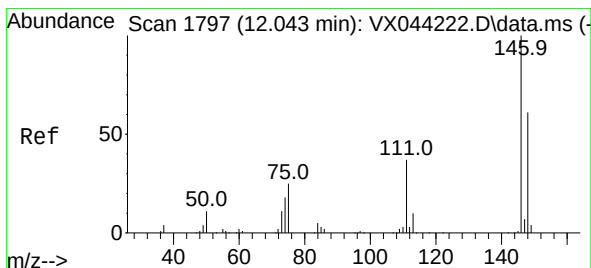
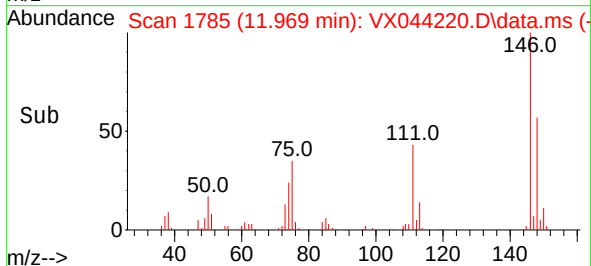
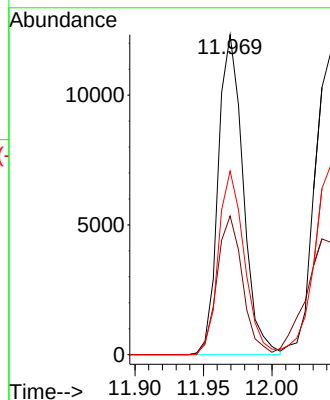
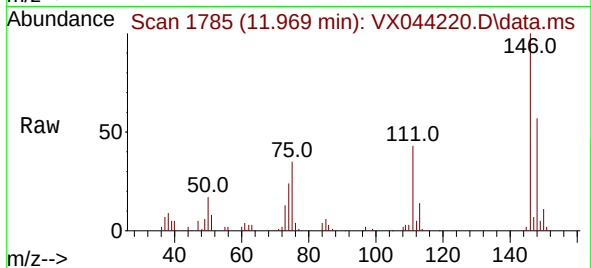
Tgt Ion:146 Resp: 15553

Ion Ratio Lower Upper

146 100

111 44.5 21.4 64.2

148 60.1 31.7 95.1



#88

1,4-Dichlorobenzene

Concen: 4.920 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

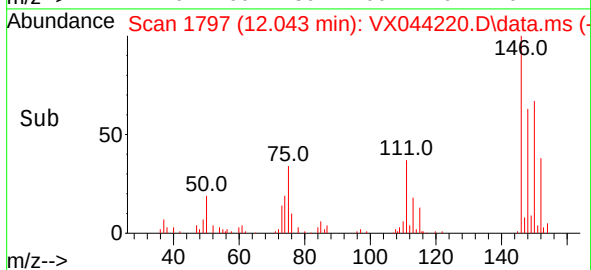
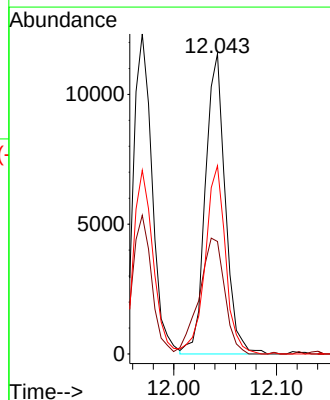
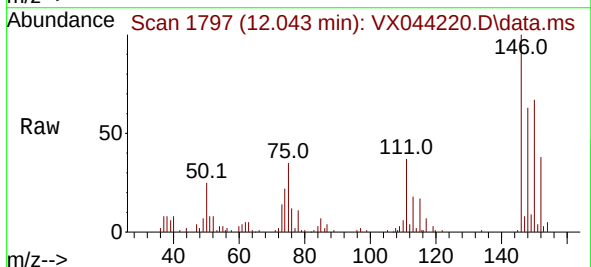
Tgt Ion:146 Resp: 15609

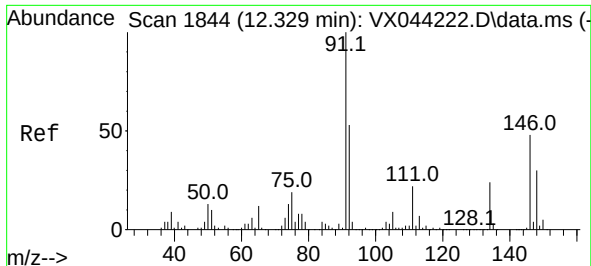
Ion Ratio Lower Upper

146 100

111 49.5 21.0 63.0

148 64.1 32.3 96.8





#89

n-Butylbenzene

Concen: 4.478 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

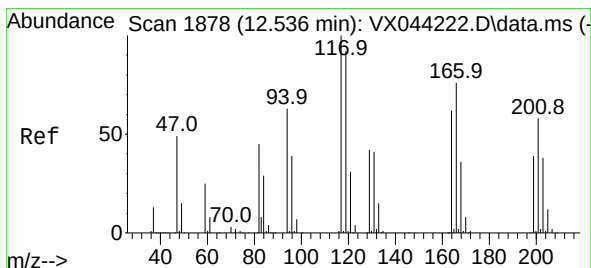
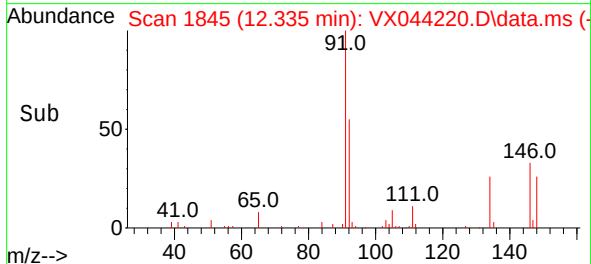
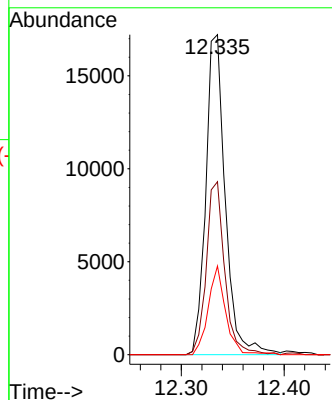
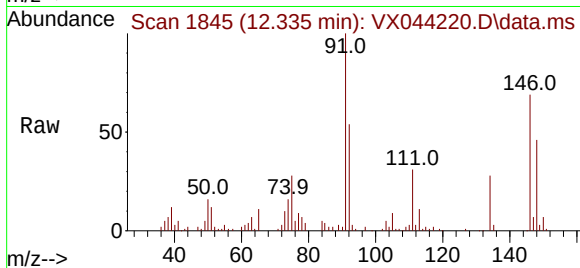
Tgt Ion: 91 Resp: 22719

Ion Ratio Lower Upper

91 100

92 51.1 26.6 79.7

134 24.9 12.6 37.8



#90

Hexachloroethane

Concen: 4.275 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX044220.D

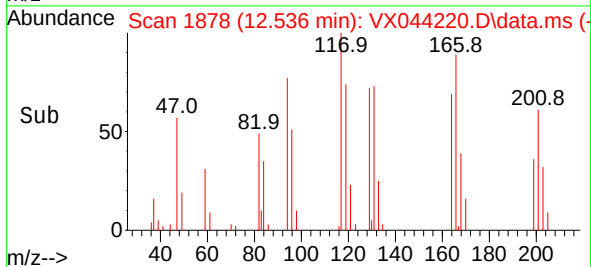
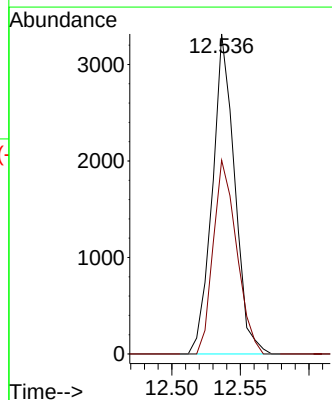
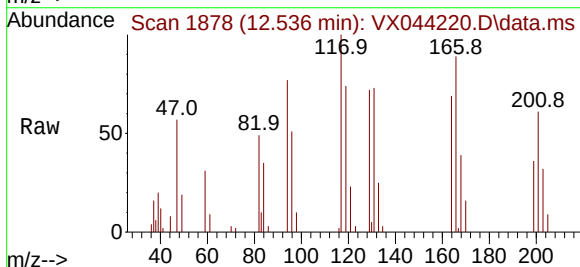
Acq: 11 Dec 2024 11:27

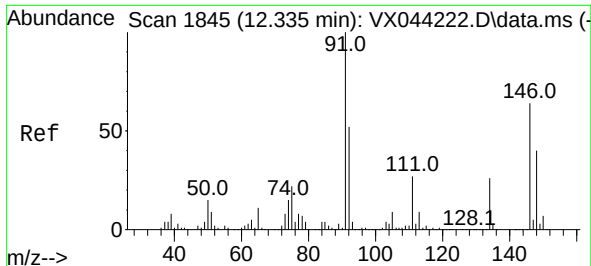
Tgt Ion: 117 Resp: 3765

Ion Ratio Lower Upper

117 100

201 63.5 31.4 94.2

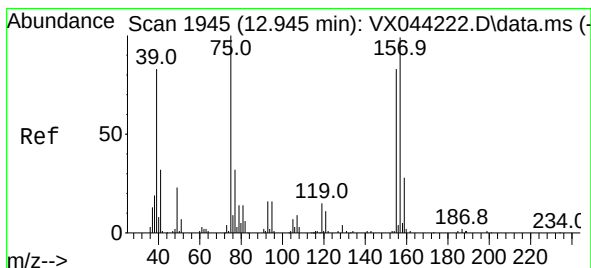
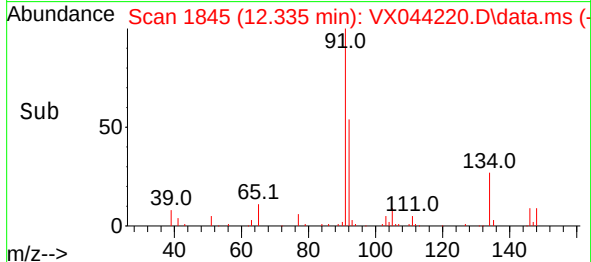
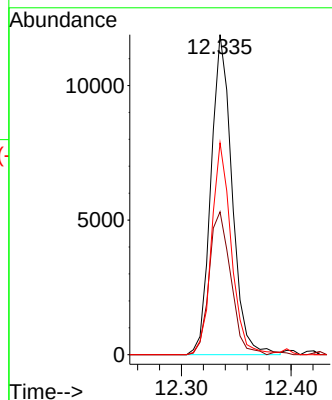
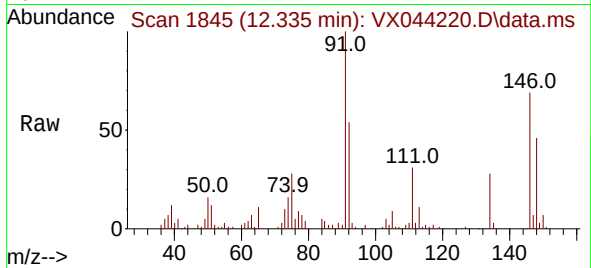




#91
1,2-Dichlorobenzene
Concen: 4.949 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

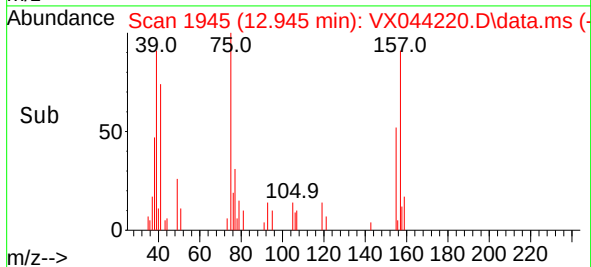
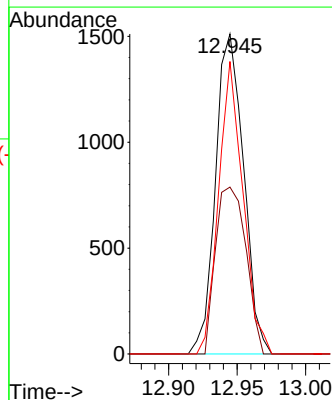
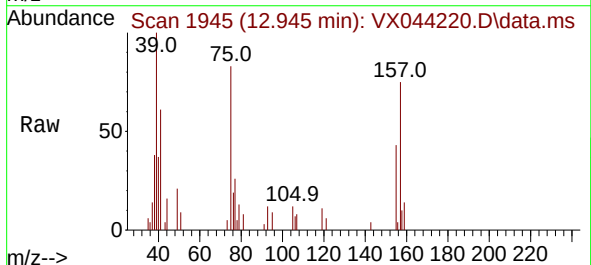
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

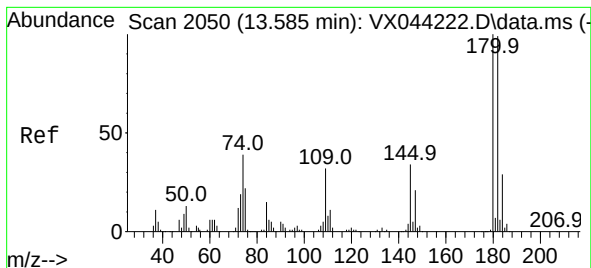
Tgt Ion:146 Resp: 15858
Ion Ratio Lower Upper
146 100
111 45.8 21.4 64.3
148 62.1 31.6 95.0



#92
1,2-Dibromo-3-Chloropropane
Concen: 4.385 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 2154
Ion Ratio Lower Upper
75 100
155 56.5 38.1 114.3
157 79.4 47.2 141.6





#93

1,2,4-Trichlorobenzene

Concen: 4.478 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

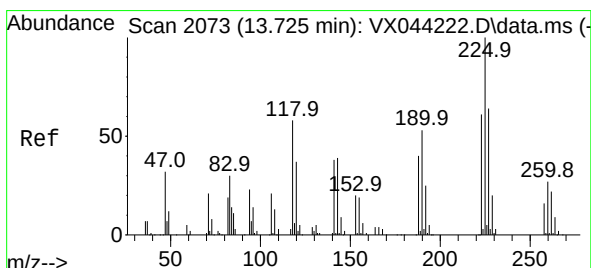
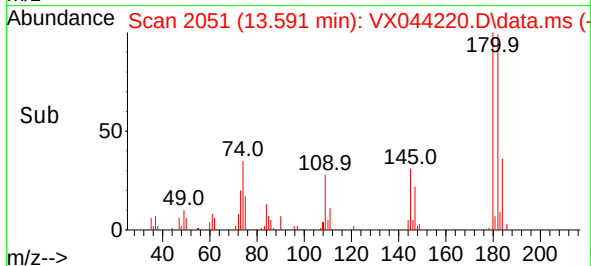
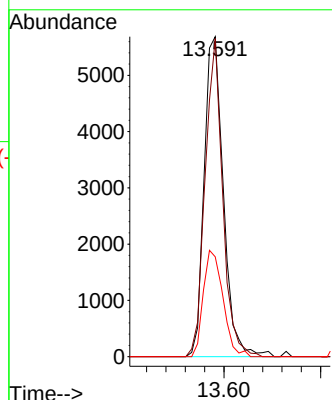
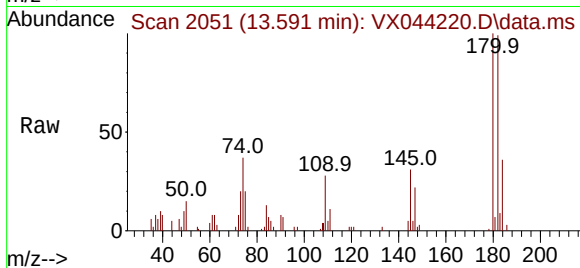
Tgt Ion:180 Resp: 7867

Ion Ratio Lower Upper

180 100

182 90.8 48.0 144.2

145 33.9 16.6 49.7



#94

Hexachlorobutadiene

Concen: 4.700 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

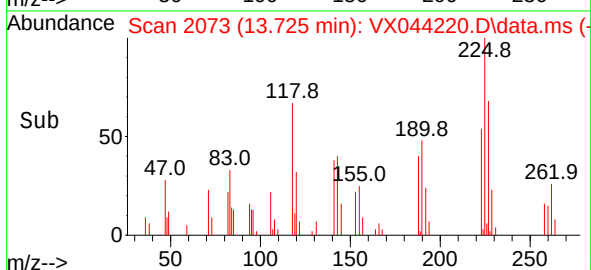
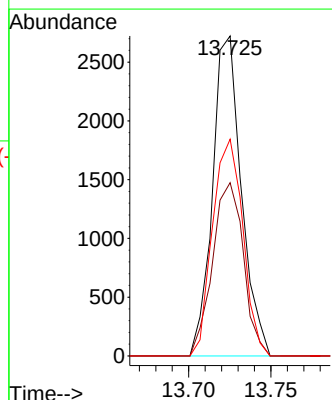
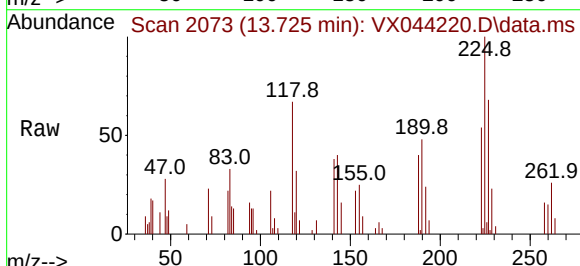
Tgt Ion:225 Resp: 3321

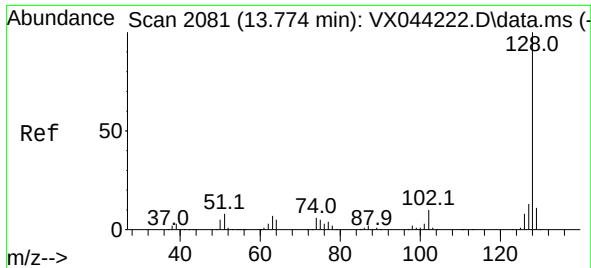
Ion Ratio Lower Upper

225 100

223 57.9 30.8 92.4

227 71.2 32.1 96.3





#95

Naphthalene

Concen: 4.643 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

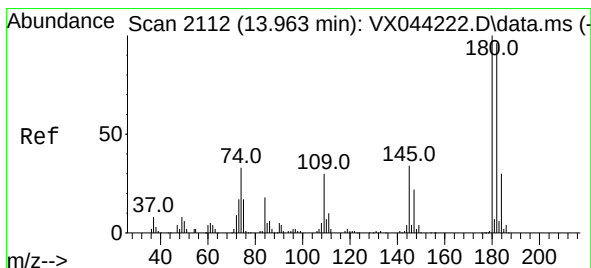
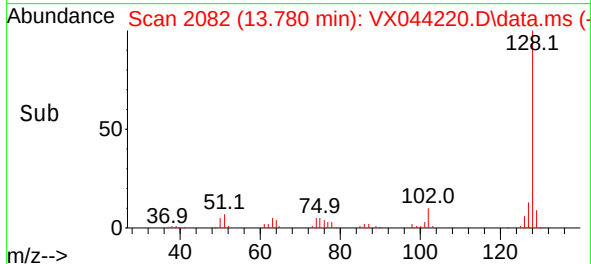
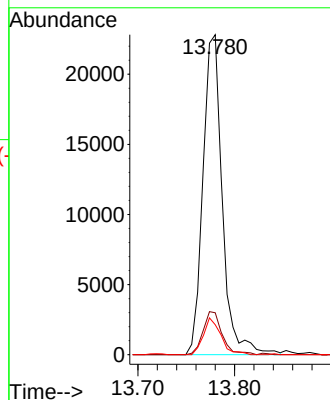
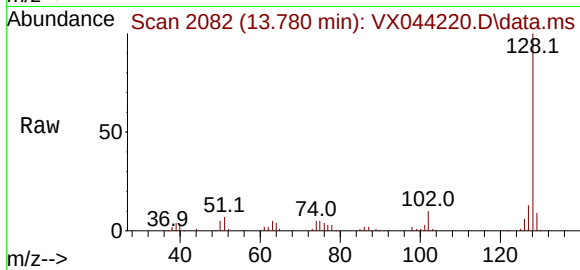
Tgt Ion:128 Resp: 31842

Ion Ratio Lower Upper

128 100

127 13.2 10.5 15.7

129 10.3 9.0 13.4



#96

1,2,3-Trichlorobenzene

Concen: 4.520 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. -0.000 min

Lab File: VX044220.D

Acq: 11 Dec 2024 11:27

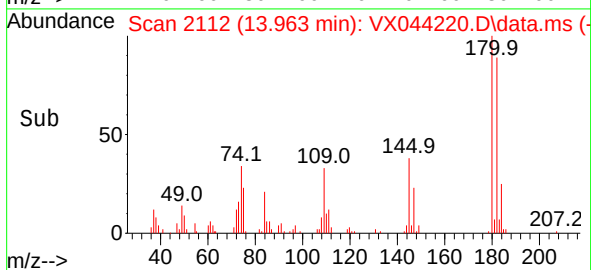
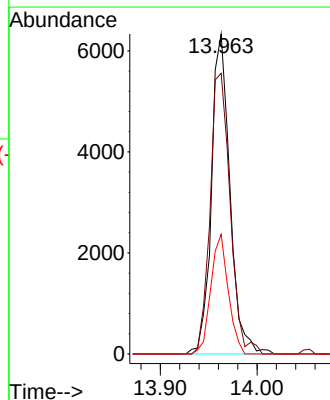
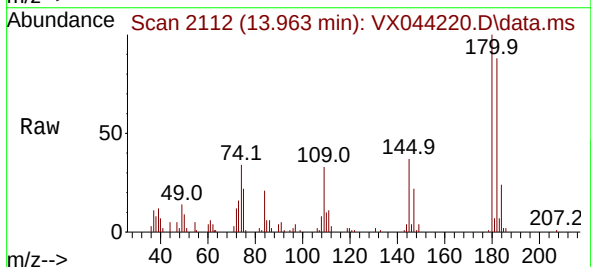
Tgt Ion:180 Resp: 8422

Ion Ratio Lower Upper

180 100

182 95.3 48.0 144.0

145 35.2 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044221.D
 Acq On : 11 Dec 2024 11:50
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Quant Time: Dec 12 04:14:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:11:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	134436	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	254199	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	218148	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	98180	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.952	65	41821	17.743	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	35.480%#
35) Dibromofluoromethane	5.391	113	30304	17.213	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	34.420%#
50) Toluene-d8	8.647	98	102660	17.284	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	34.560%#
62) 4-Bromofluorobenzene	11.079	95	35645	17.175	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	34.340%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	38748	18.640	ug/l	90
3) Chloromethane	1.294	50	39546	19.894	ug/l	100
4) Vinyl Chloride	1.374	62	42048	20.304	ug/l	97
5) Bromomethane	1.593	94	27604	18.789	ug/l	94
6) Chloroethane	1.666	64	27673	21.460	ug/l	94
7) Trichlorofluoromethane	1.867	101	81398	20.077	ug/l	99
8) Diethyl Ether	2.136	74	25884	18.704	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	31846	19.412	ug/l	99
10) Methyl Iodide	2.441	142	42786	19.788	ug/l	99
11) Tert butyl alcohol	3.001	59	32189	97.050	ug/l	99
12) 1,1-Dichloroethene	2.306	96	29241	19.405	ug/l	92
13) Acrolein	2.239	56	43909	91.311	ug/l	97
14) Allyl chloride	2.654	41	47218	18.813	ug/l	98
15) Acrylonitrile	3.068	53	89249	96.988	ug/l	99
16) Acetone	2.392	43	88985	92.601	ug/l	95
17) Carbon Disulfide	2.502	76	50399	17.595	ug/l	98
18) Methyl Acetate	2.709	43	47509	19.175	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	114371	19.450	ug/l	100
20) Methylene Chloride	2.782	84	35820	19.846	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	31036	19.380	ug/l	97
22) Diisopropyl ether	3.764	45	112511	19.907	ug/l	94
23) Vinyl Acetate	3.721	43	465716	101.354	ug/l	100
24) 1,1-Dichloroethane	3.605	63	62059	19.699	ug/l	98
25) 2-Butanone	4.568	43	136992	100.277	ug/l	99
26) 2,2-Dichloropropane	4.471	77	51431	20.095	ug/l #	74
27) cis-1,2-Dichloroethene	4.477	96	39161	19.254	ug/l	99
28) Bromochloromethane	4.891	49	30977	20.052	ug/l	95
29) Tetrahydrofuran	5.013	42	86235	98.343	ug/l	99
30) Chloroform	5.093	83	68410	19.327	ug/l	97
31) Cyclohexane	5.458	56	51773	20.351	ug/l	93
32) 1,1,1-Trichloroethane	5.373	97	57900	19.706	ug/l	99
36) 1,1-Dichloropropene	5.690	75	42878	18.841	ug/l	99
37) Ethyl Acetate	4.727	43	56019	19.913	ug/l	99
38) Carbon Tetrachloride	5.672	117	43901	17.918	ug/l	92
39) Methylcyclohexane	7.379	83	53536	19.678	ug/l	97
40) Benzene	6.031	78	135467	19.606	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044221.D
 Acq On : 11 Dec 2024 11:50
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Quant Time: Dec 12 04:14:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:11:59 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	28523	19.095	ug/l	94
42) 1,2-Dichloroethane	6.086	62	55377	19.456	ug/l	98
43) Isopropyl Acetate	6.342	43	84866	19.301	ug/l	100
44) Trichloroethene	7.123	130	32995	19.149	ug/l	96
45) 1,2-Dichloropropane	7.427	63	33585	19.025	ug/l	97
46) Dibromomethane	7.580	93	26293	19.199	ug/l	99
47) Bromodichloromethane	7.818	83	44312	18.735	ug/l	99
48) Methyl methacrylate	7.696	41	40620	19.032	ug/l	98
49) 1,4-Dioxane	7.671	88	9801	268.697	ug/l #	71
51) 4-Methyl-2-Pentanone	8.574	43	278267	98.429	ug/l	100
52) Toluene	8.714	92	82934	19.113	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	44614	18.785	ug/l	98
54) cis-1,3-Dichloropropene	8.366	75	49596	19.258	ug/l	91
55) 1,1,2-Trichloroethane	9.147	97	34013	19.732	ug/l	98
56) Ethyl methacrylate	9.116	69	52571	19.318	ug/l	99
57) 1,3-Dichloropropane	9.305	76	59489	19.827	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	129900	94.642	ug/l	100
59) 2-Hexanone	9.433	43	207578	101.440	ug/l	99
60) Dibromochloromethane	9.519	129	31066	18.318	ug/l	97
61) 1,2-Dibromoethane	9.610	107	34978	19.935	ug/l	98
64) Tetrachloroethene	9.275	164	27702	19.133	ug/l	97
65) Chlorobenzene	10.079	112	90631	19.389	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.165	131	29132	19.392	ug/l	99
67) Ethyl Benzene	10.195	91	158455	19.619	ug/l	98
68) m/p-Xylenes	10.299	106	116126	39.183	ug/l	98
69) o-Xylene	10.640	106	59787	19.938	ug/l	99
70) Styrene	10.653	104	95883	19.946	ug/l	98
71) Bromoform	10.799	173	16924	18.112	ug/l #	96
73) Isopropylbenzene	10.963	105	153935	20.481	ug/l	98
74) N-amyl acetate	10.842	43	69643	20.049	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.213	83	52312	20.039	ug/l	97
76) 1,2,3-Trichloropropane	11.238	75	55384	24.859	ug/l	86
77) Bromobenzene	11.195	156	34951	19.176	ug/l	98
78) n-propylbenzene	11.305	91	169622	20.419	ug/l	100
79) 2-Chlorotoluene	11.366	91	106310	19.788	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	126626	20.315	ug/l	97
81) trans-1,4-Dichloro-2-b...	11.018	75	11784	19.264	ug/l	90
82) 4-Chlorotoluene	11.451	91	118309	19.886	ug/l	100
83) tert-Butylbenzene	11.713	119	121929	19.794	ug/l	95
84) 1,2,4-Trimethylbenzene	11.750	105	125939	20.574	ug/l	99
85) sec-Butylbenzene	11.890	105	150795	20.165	ug/l	99
86) p-Isopropyltoluene	12.006	119	127790	20.532	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	64399	20.228	ug/l	98
88) 1,4-Dichlorobenzene	12.043	146	64106	19.588	ug/l	99
89) n-Butylbenzene	12.329	91	104410	19.950	ug/l	99
90) Hexachloroethane	12.536	117	15939	17.543	ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	65511	19.817	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	9468	18.683	ug/l	97
93) 1,2,4-Trichlorobenzene	13.591	180	35001	19.313	ug/l	99
94) Hexachlorobutadiene	13.725	225	14415	19.774	ug/l	97
95) Naphthalene	13.774	128	142515	20.146	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	38639	20.101	ug/l	99

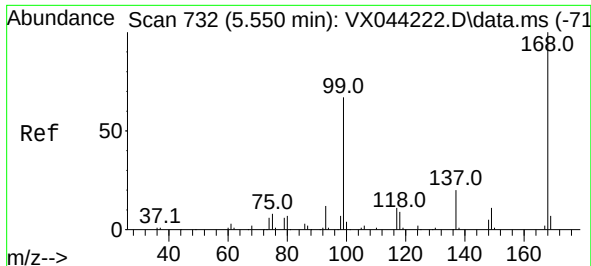
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Data File : VX044221.D
Acq On : 11 Dec 2024 11:50
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Dec 12 04:14:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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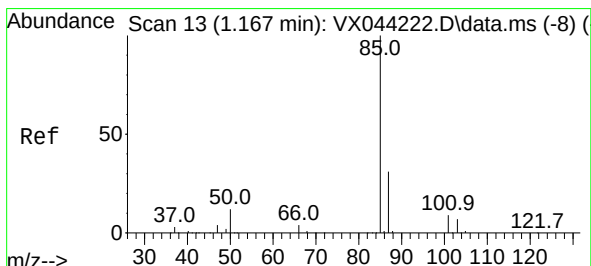
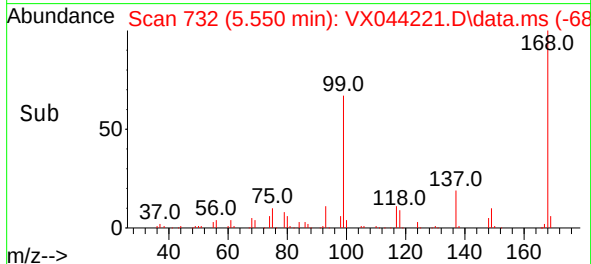
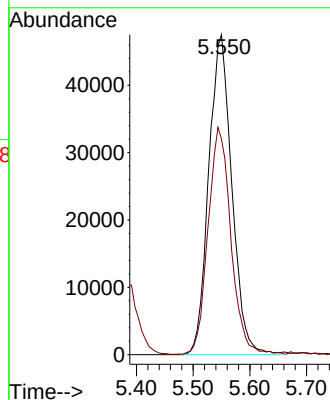
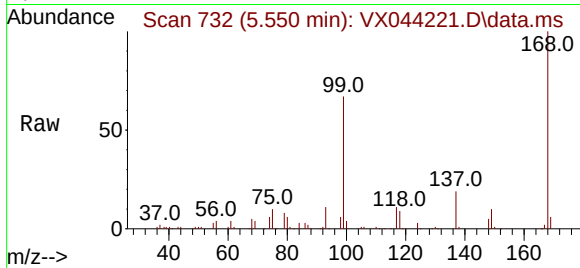
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

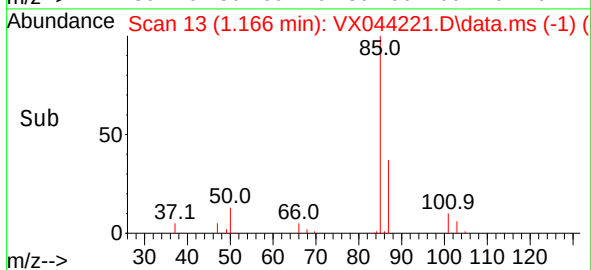
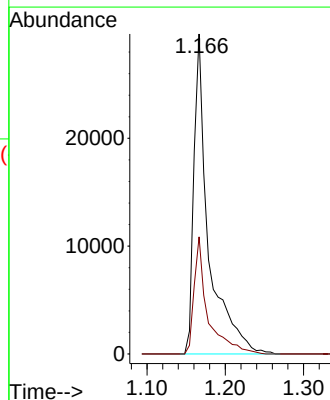
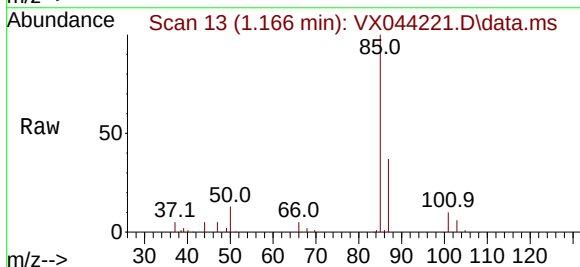
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

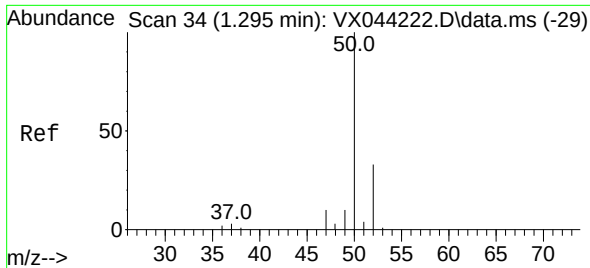
Tgt Ion:168 Resp: 134436
Ion Ratio Lower Upper
168 100
99 67.2 53.4 80.0



#2
Dichlorodifluoromethane
Concen: 18.640 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 85 Resp: 38748
Ion Ratio Lower Upper
85 100
87 36.6 15.4 46.4

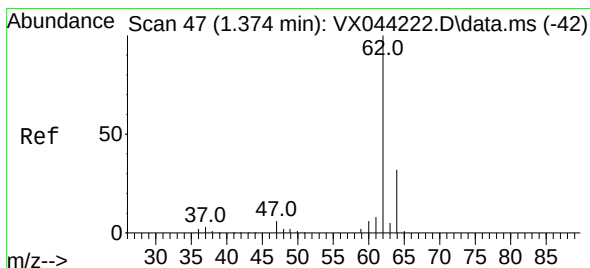
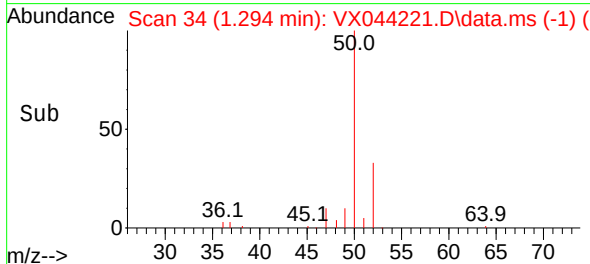
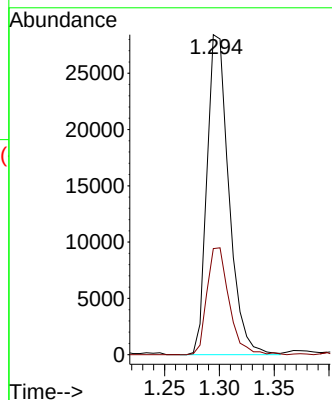
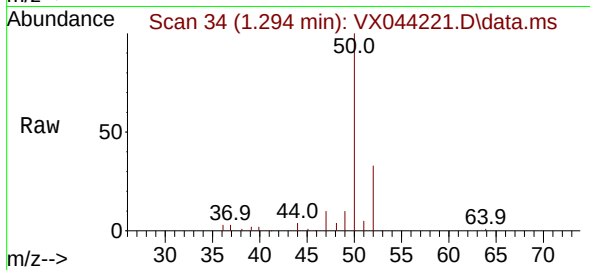




#3
Chloromethane
Concen: 19.894 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

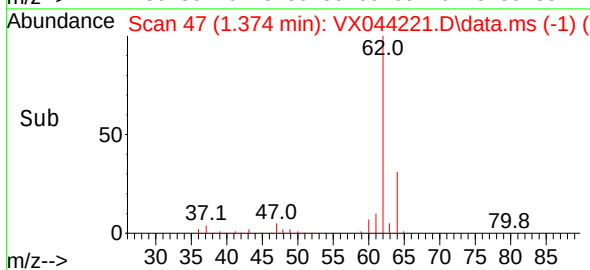
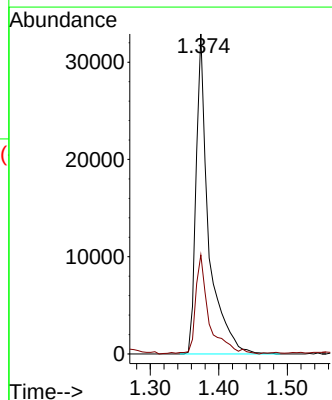
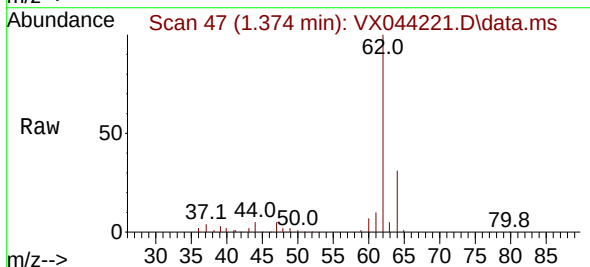
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

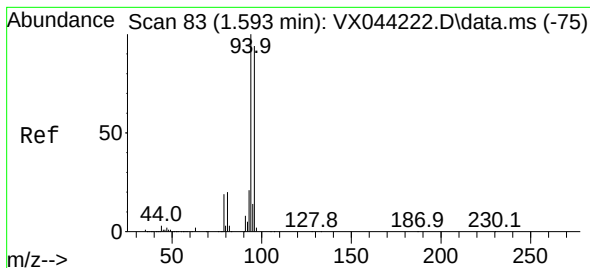
Tgt Ion: 50 Resp: 39546
Ion Ratio Lower Upper
50 100
52 33.2 26.5 39.7



#4
Vinyl Chloride
Concen: 20.304 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 62 Resp: 42048
Ion Ratio Lower Upper
62 100
64 30.6 25.7 38.5





#5

Bromomethane

Concen: 18.789 ug/l

RT: 1.593 min Scan# 83

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

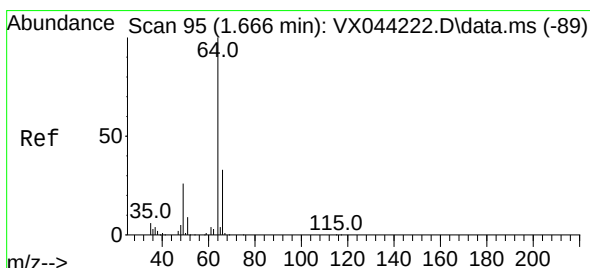
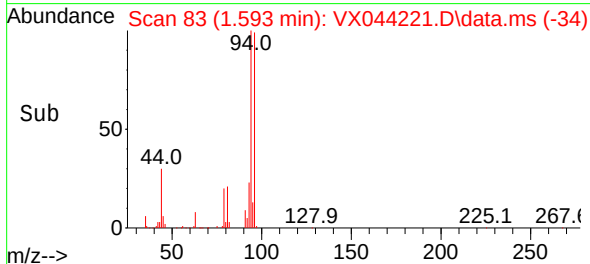
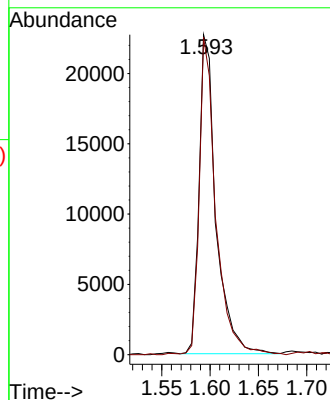
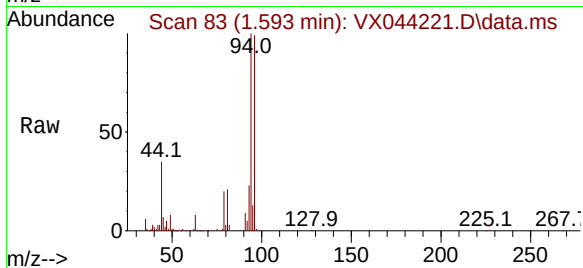
VSTDICC020

Tgt Ion: 94 Resp: 27604

Ion Ratio Lower Upper

94 100

96 99.2 74.9 112.3



#6

Chloroethane

Concen: 21.460 ug/l

RT: 1.666 min Scan# 95

Delta R.T. -0.000 min

Lab File: VX044221.D

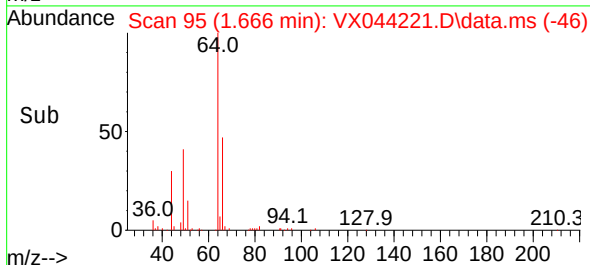
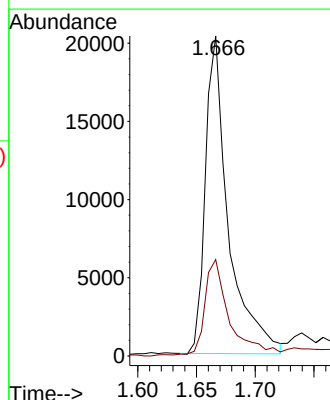
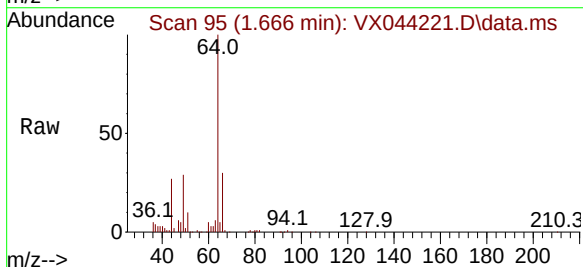
Acq: 11 Dec 2024 11:50

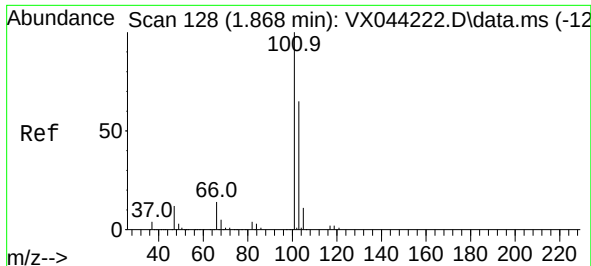
Tgt Ion: 64 Resp: 27673

Ion Ratio Lower Upper

64 100

66 29.8 26.6 39.8

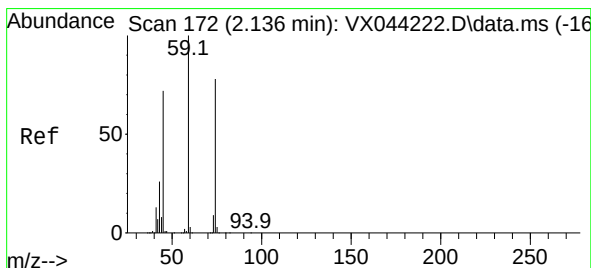
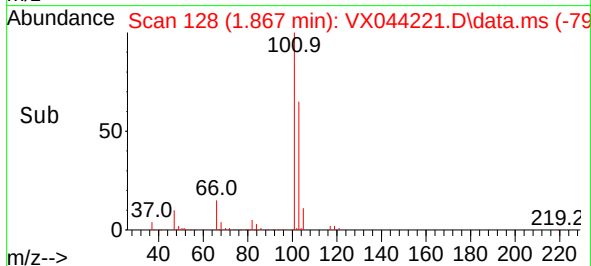
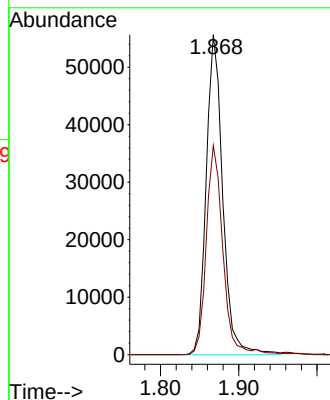
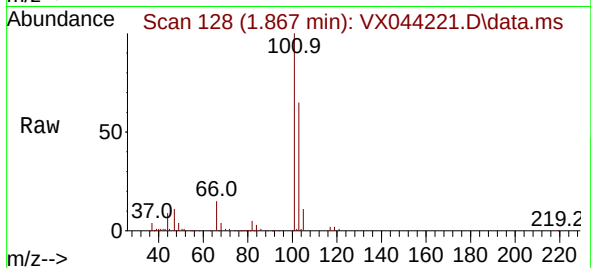




#7
 Trichlorofluoromethane
 Concen: 20.077 ug/l
 RT: 1.867 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX044221.D
 Acq: 11 Dec 2024 11:50

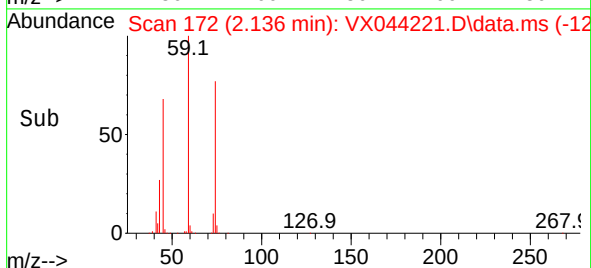
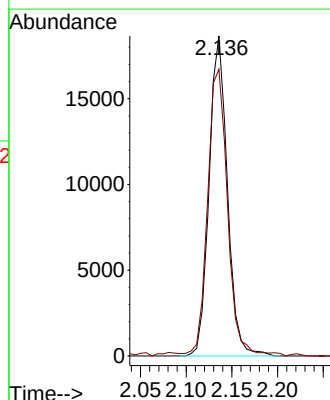
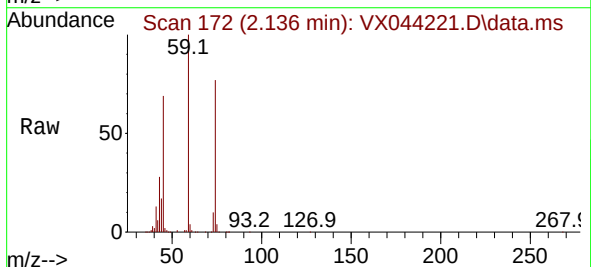
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

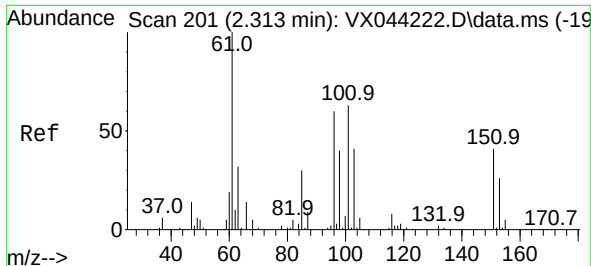
Tgt Ion:101 Resp: 81398
 Ion Ratio Lower Upper
 101 100
 103 65.3 51.8 77.8



#8
 Diethyl Ether
 Concen: 18.704 ug/l
 RT: 2.136 min Scan# 172
 Delta R.T. -0.000 min
 Lab File: VX044221.D
 Acq: 11 Dec 2024 11:50

Tgt Ion: 74 Resp: 25884
 Ion Ratio Lower Upper
 74 100
 45 97.8 48.4 145.0

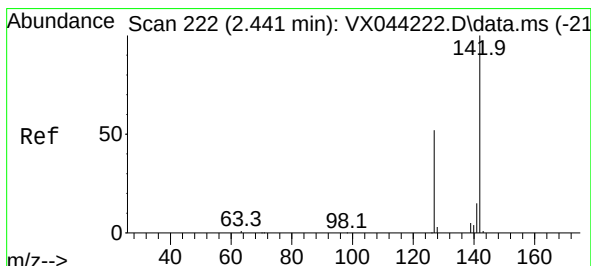
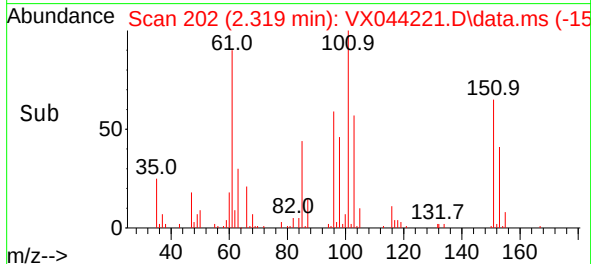
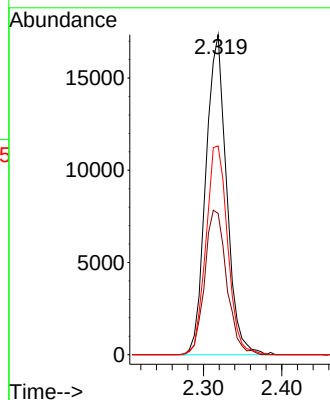
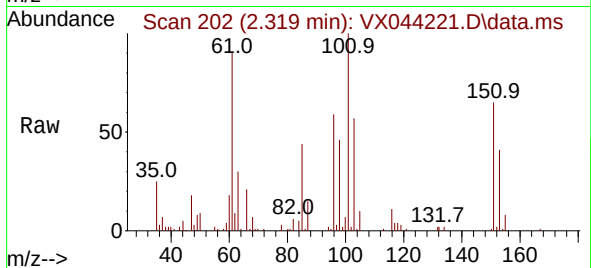




#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.412 ug/l
RT: 2.319 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

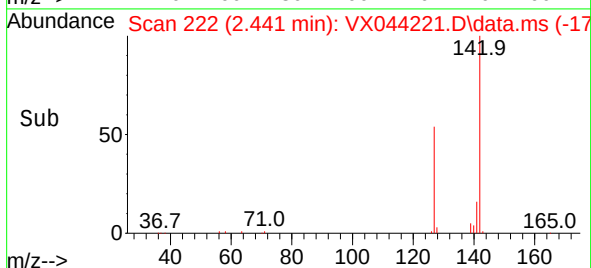
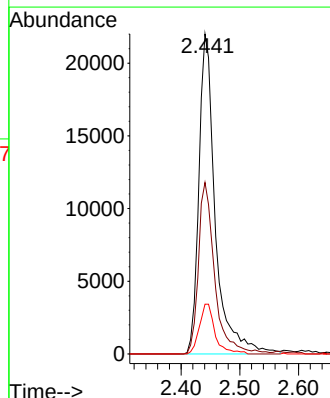
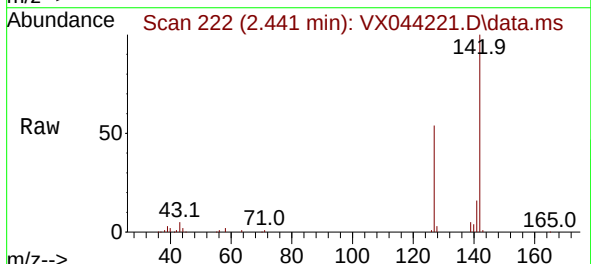
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

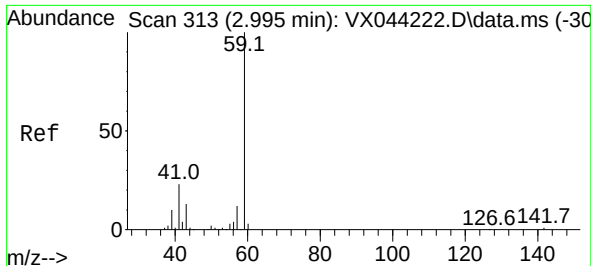
Tgt Ion:101 Resp: 31846
Ion Ratio Lower Upper
101 100
85 48.0 38.5 57.7
151 68.6 55.8 83.6



#10
Methyl Iodide
Concen: 19.788 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:142 Resp: 42786
Ion Ratio Lower Upper
142 100
127 52.9 41.8 62.8
141 14.8 11.5 17.3





#11

Tert butyl alcohol

Concen: 97.050 ug/l

RT: 3.001 min Scan# 313

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

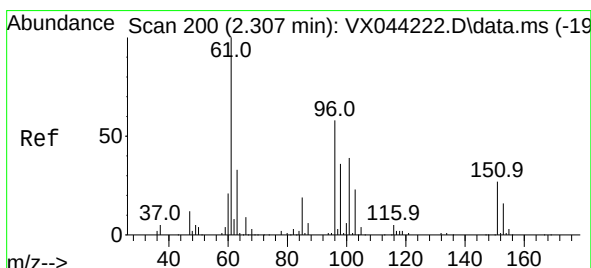
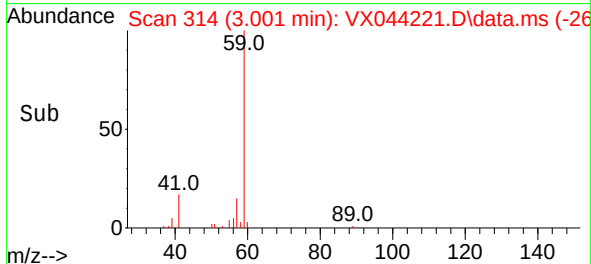
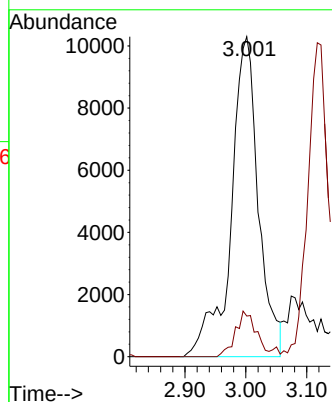
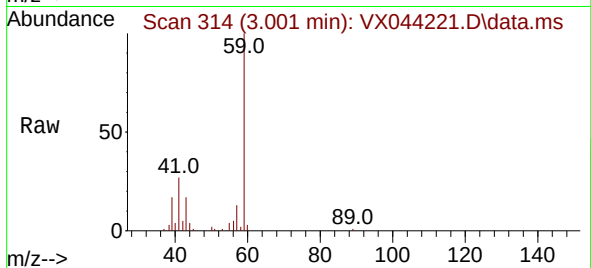
VSTDIC020

Tgt Ion: 59 Resp: 32189

Ion Ratio Lower Upper

59 100

57 10.6 8.8 13.2



#12

1,1-Dichloroethene

Concen: 19.405 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

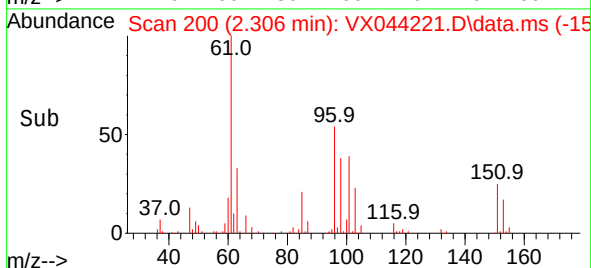
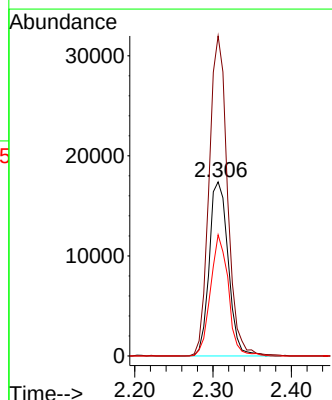
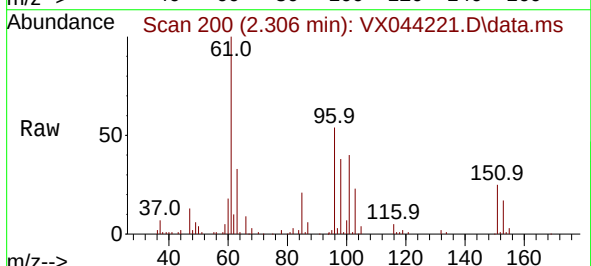
Tgt Ion: 96 Resp: 29241

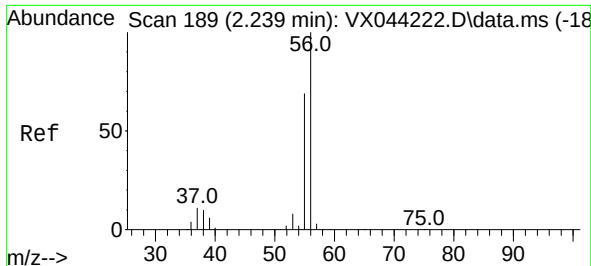
Ion Ratio Lower Upper

96 100

61 183.9 138.0 207.0

98 69.6 50.0 75.0

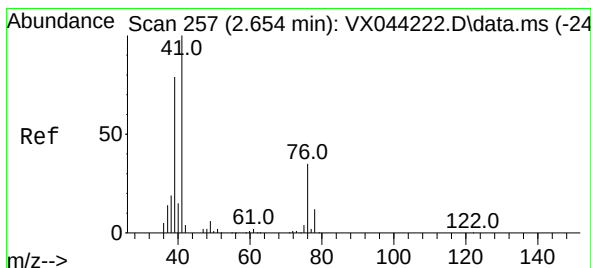
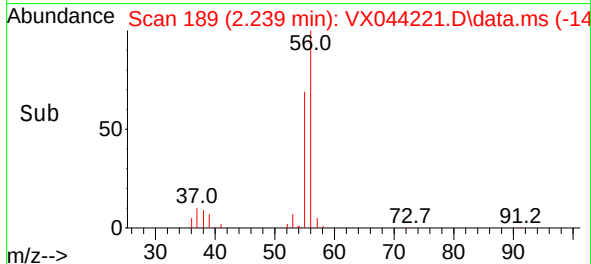
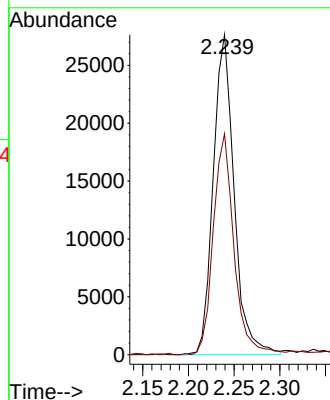
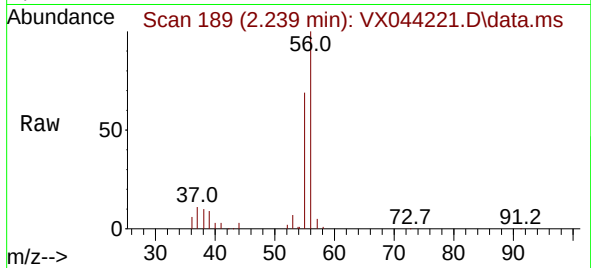




#13
Acrolein
Concen: 91.311 ug/l
RT: 2.239 min Scan# 189
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

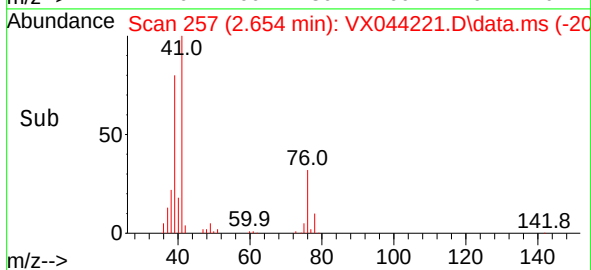
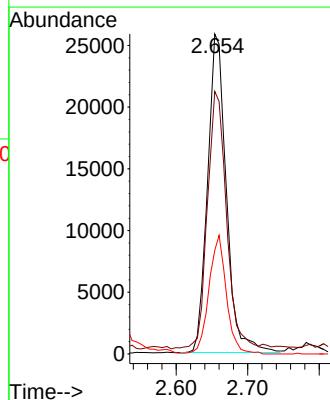
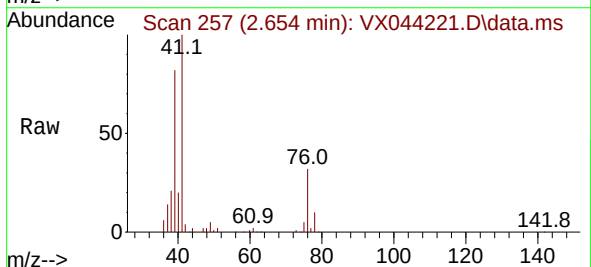
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

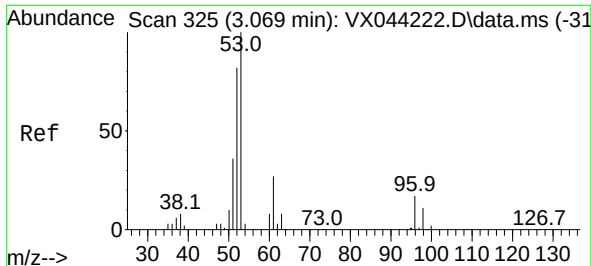
Tgt Ion: 56 Resp: 43909
Ion Ratio Lower Upper
56 100
55 68.6 56.6 84.8



#14
Allyl chloride
Concen: 18.813 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 41 Resp: 47218
Ion Ratio Lower Upper
41 100
39 80.4 61.9 92.9
76 34.5 27.4 41.2

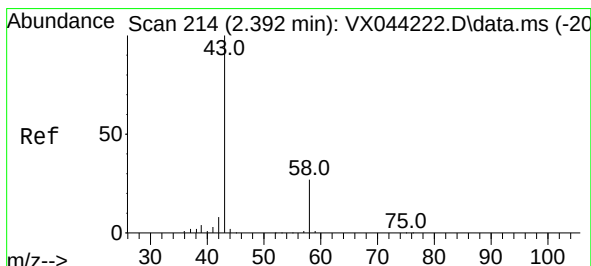
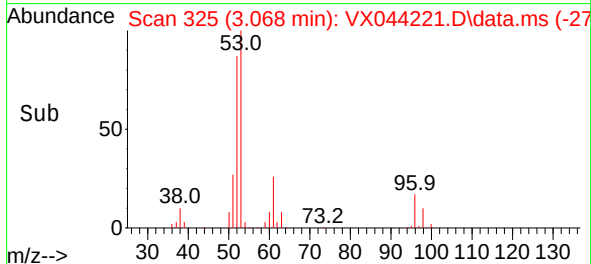
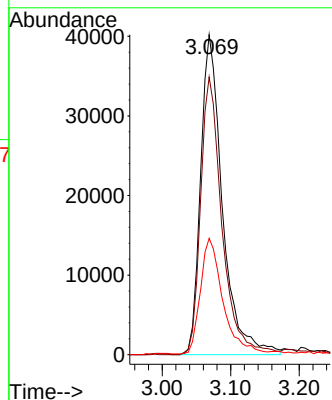
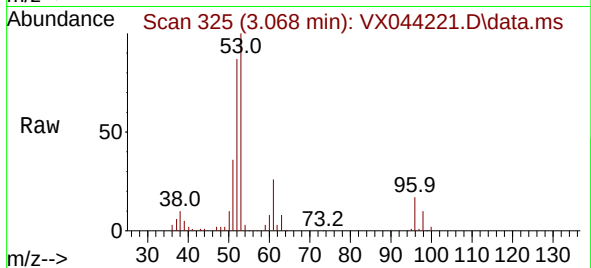




#15
Acrylonitrile
Concen: 96.988 ug/l
RT: 3.068 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

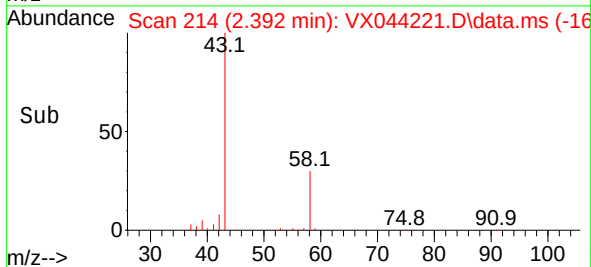
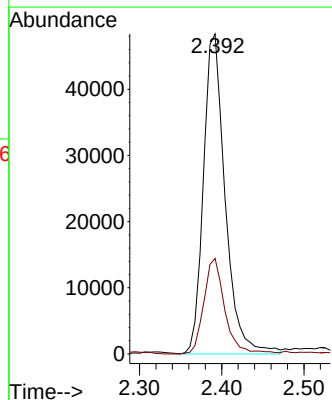
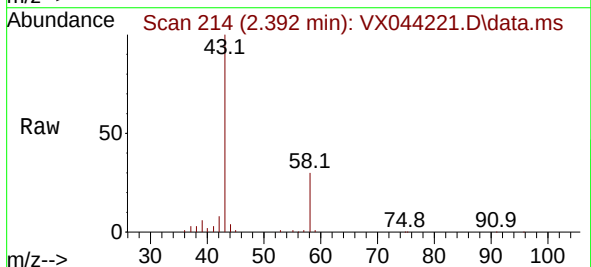
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

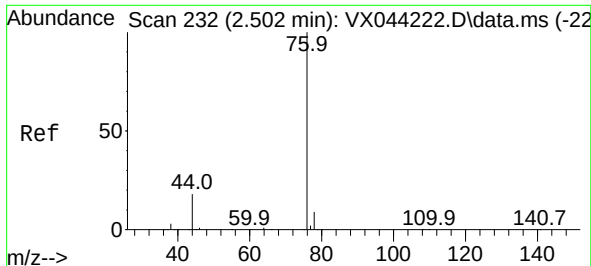
Tgt Ion: 53 Resp: 89249
Ion Ratio Lower Upper
53 100
52 85.1 67.4 101.0
51 37.1 30.3 45.5



#16
Acetone
Concen: 92.601 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 88985
Ion Ratio Lower Upper
43 100
58 29.8 21.6 32.4

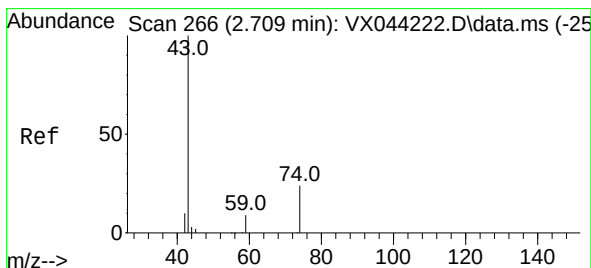
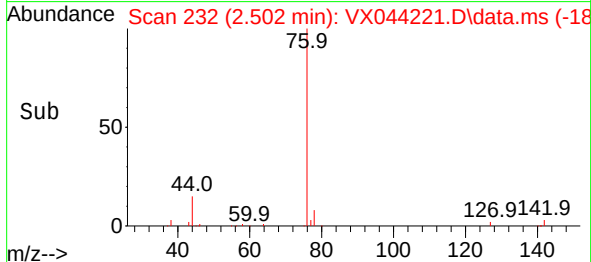
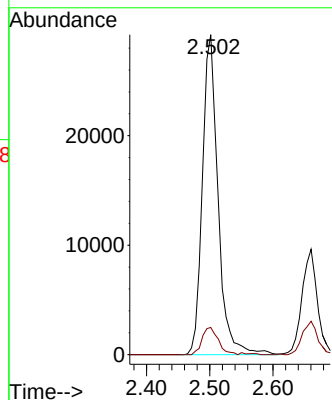
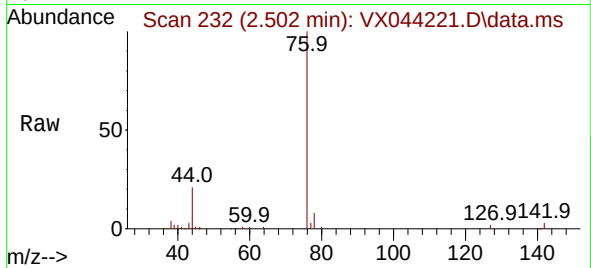




#17
Carbon Disulfide
Concen: 17.595 ug/l
RT: 2.502 min Scan# 232
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

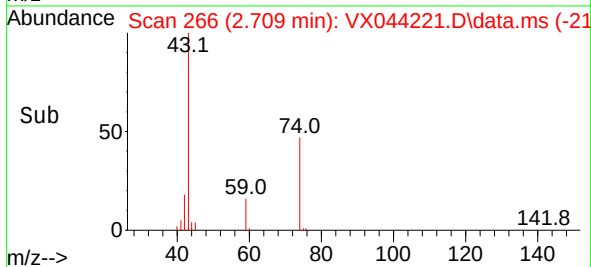
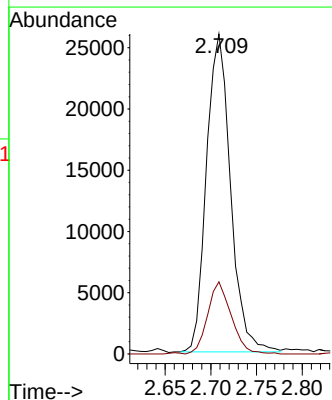
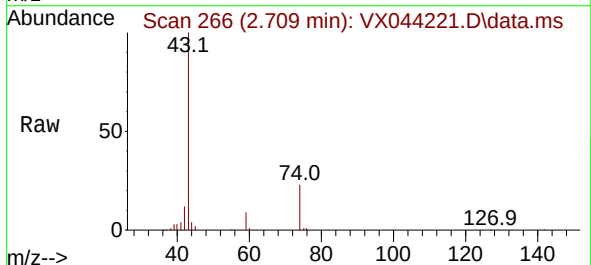
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

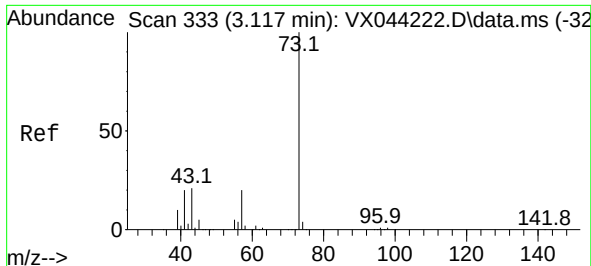
Tgt Ion: 76 Resp: 50399
Ion Ratio Lower Upper
76 100
78 8.5 7.4 11.0



#18
Methyl Acetate
Concen: 19.175 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 47509
Ion Ratio Lower Upper
43 100
74 22.2 17.7 26.5





#19

Methyl tert-butyl Ether

Concen: 19.450 ug/l

RT: 3.117 min Scan# 333

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

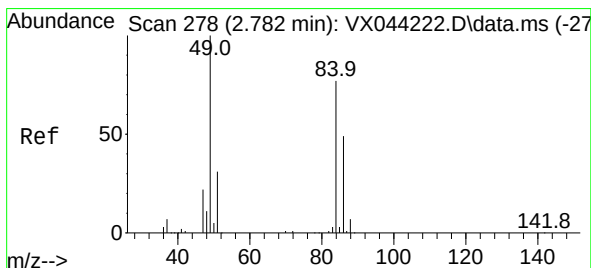
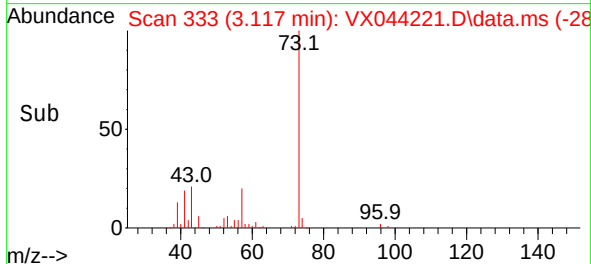
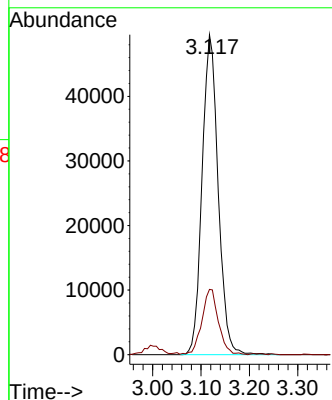
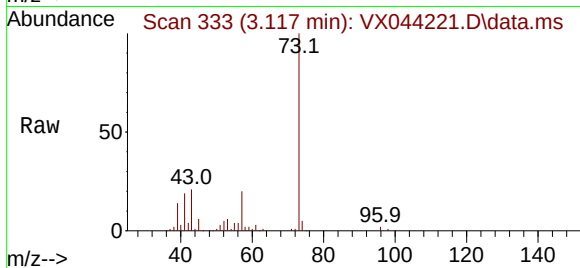
VSTDICC020

Tgt Ion: 73 Resp: 114371

Ion Ratio Lower Upper

73 100

57 20.4 16.2 24.4



#20

Methylene Chloride

Concen: 19.846 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Tgt Ion: 84 Resp: 35820

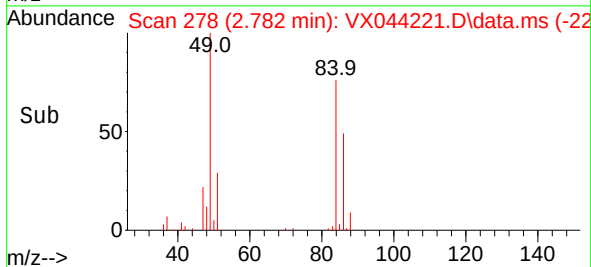
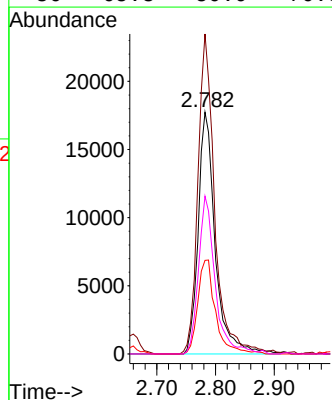
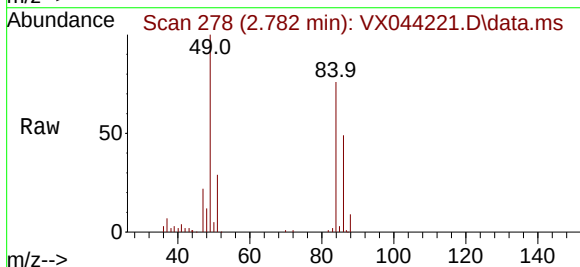
Ion Ratio Lower Upper

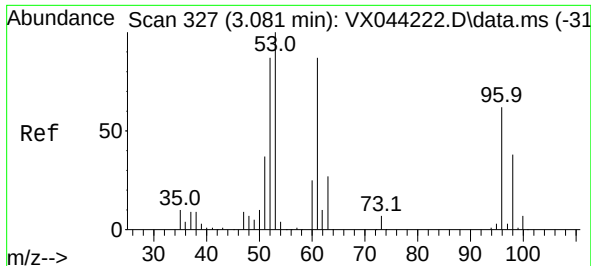
84 100

49 132.3 104.2 156.4

51 38.7 32.2 48.4

86 65.3 50.9 76.3

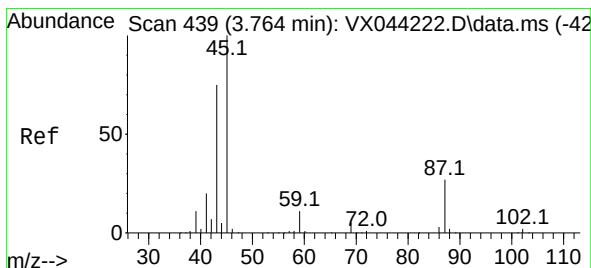
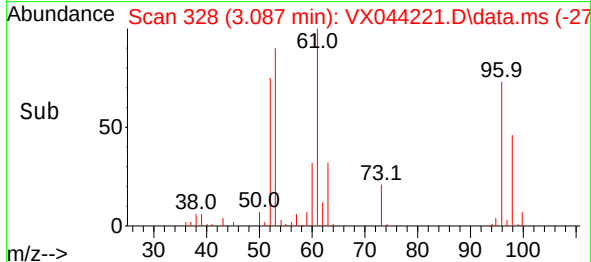
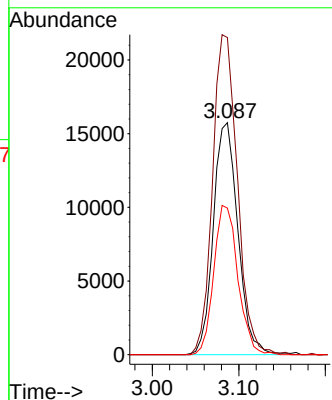
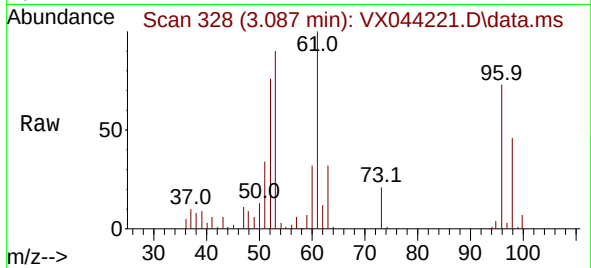




#21
trans-1,2-Dichloroethene
Concen: 19.380 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

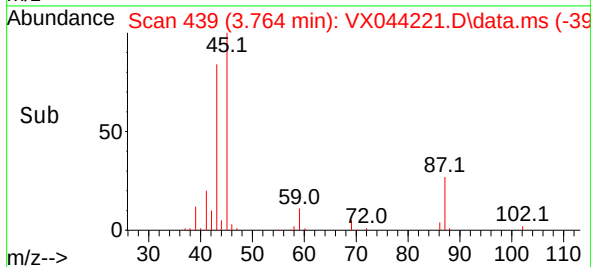
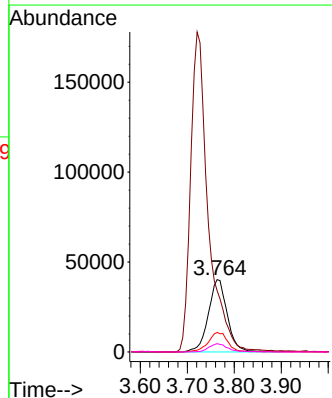
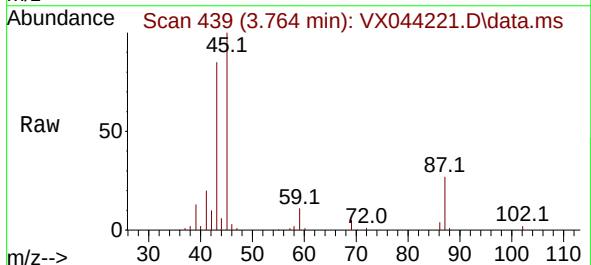
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

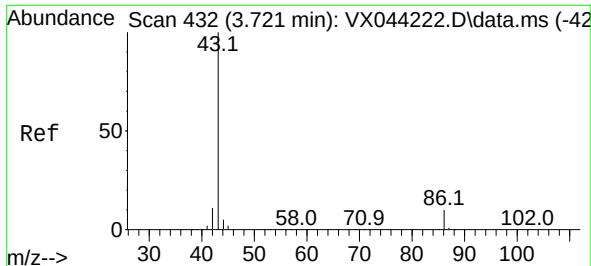
Tgt Ion: 96 Resp: 31036
Ion Ratio Lower Upper
96 100
61 136.8 112.0 168.0
98 63.2 48.8 73.2



#22
Diisopropyl ether
Concen: 19.907 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 45 Resp: 112511
Ion Ratio Lower Upper
45 100
43 82.8 60.2 90.2
87 27.1 21.2 31.8
59 11.4 8.9 13.3

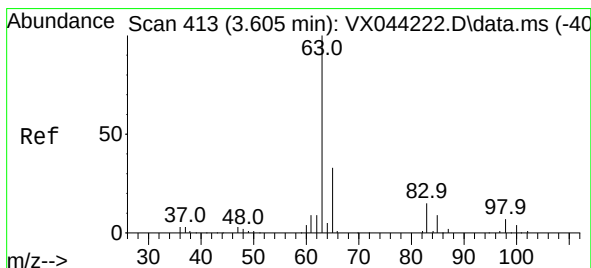
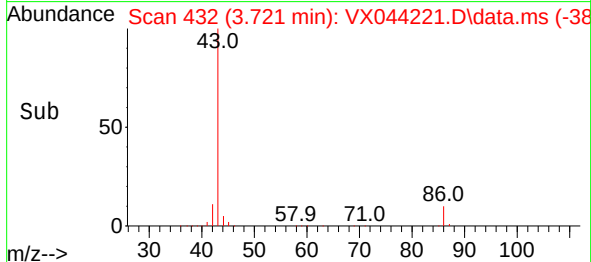
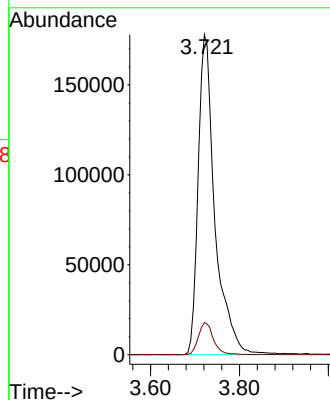
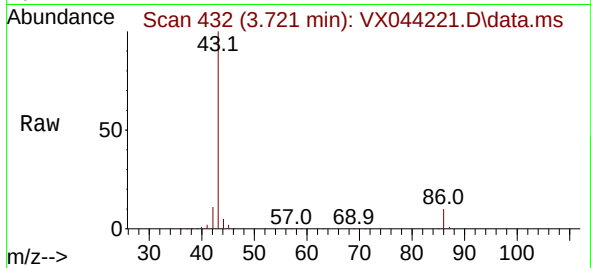




#23
 Vinyl Acetate
 Concen: 101.354 ug/l
 RT: 3.721 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VX044221.D
 Acq: 11 Dec 2024 11:50

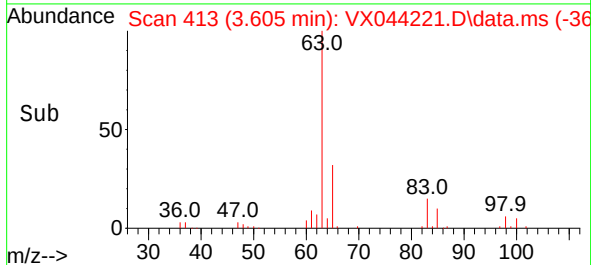
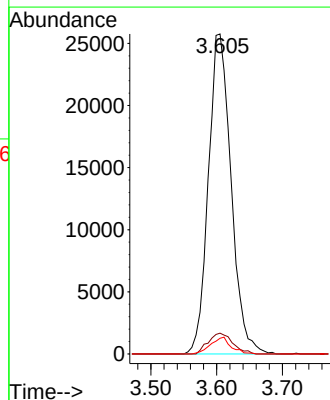
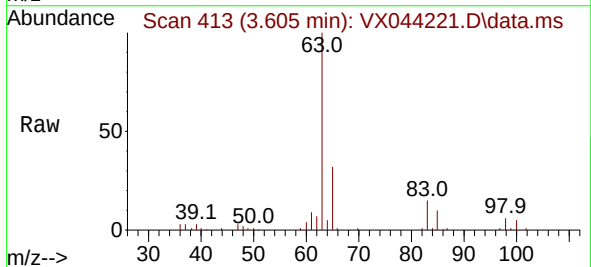
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

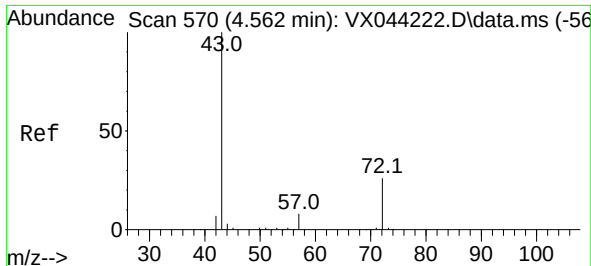
Tgt Ion: 43 Resp: 465716
 Ion Ratio Lower Upper
 43 100
 86 10.1 8.2 12.2



#24
 1,1-Dichloroethane
 Concen: 19.699 ug/l
 RT: 3.605 min Scan# 413
 Delta R.T. -0.000 min
 Lab File: VX044221.D
 Acq: 11 Dec 2024 11:50

Tgt Ion: 63 Resp: 62059
 Ion Ratio Lower Upper
 63 100
 98 6.5 3.6 10.8
 100 4.9 2.1 6.3





#25

2-Butanone

Concen: 100.277 ug/l

RT: 4.568 min Scan# 5

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

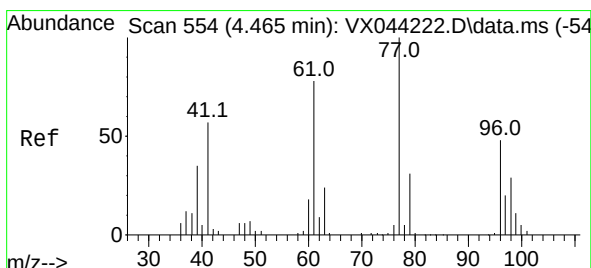
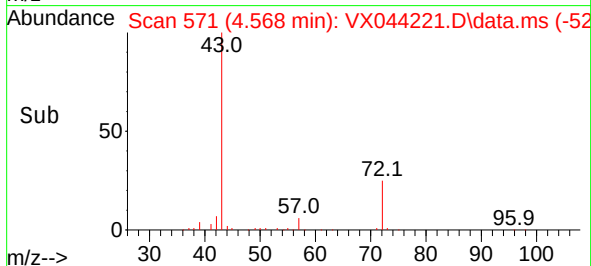
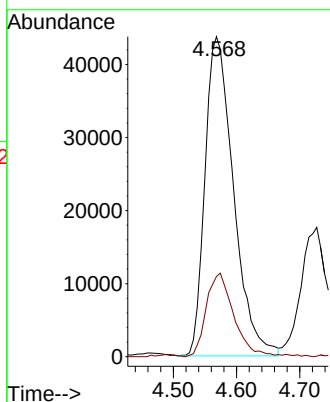
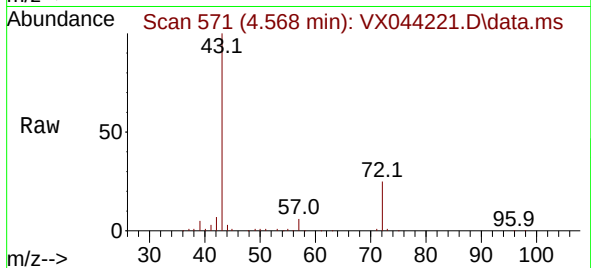
VSTDIC020

Tgt Ion: 43 Resp: 136992

Ion Ratio Lower Upper

43 100

72 24.8 20.2 30.4



#26

2,2-Dichloropropane

Concen: 20.095 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.006 min

Lab File: VX044221.D

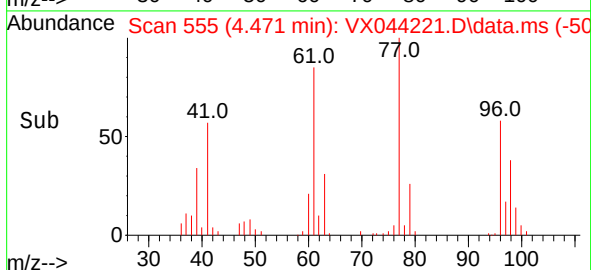
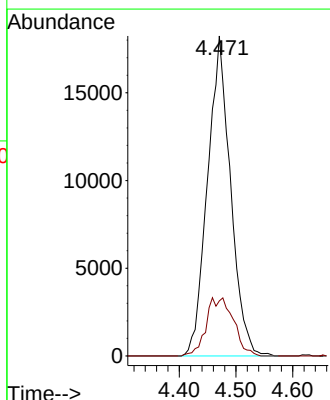
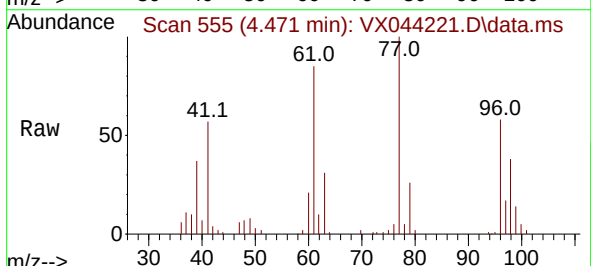
Acq: 11 Dec 2024 11:50

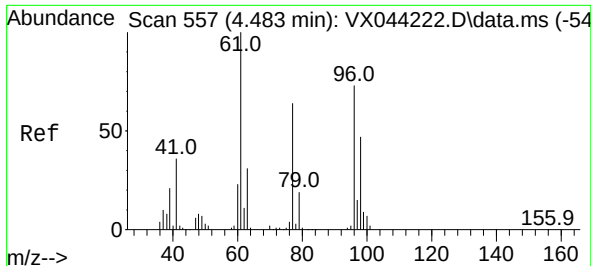
Tgt Ion: 77 Resp: 51431

Ion Ratio Lower Upper

77 100

97 9.1 10.7 32.1#





#27

cis-1,2-Dichloroethene

Concen: 19.254 ug/l

RT: 4.477 min Scan# 556

Delta R.T. -0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

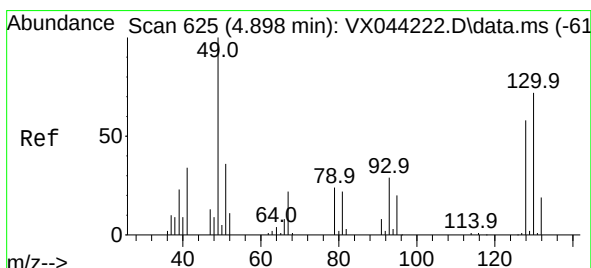
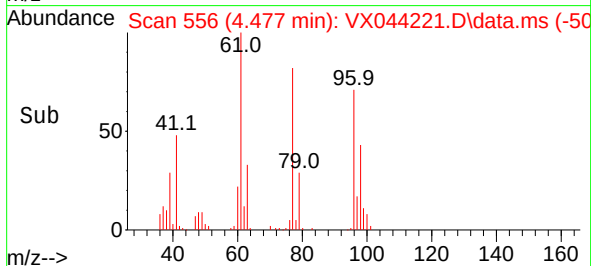
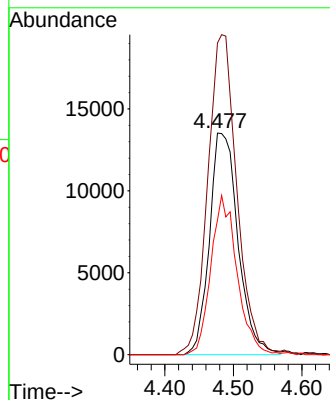
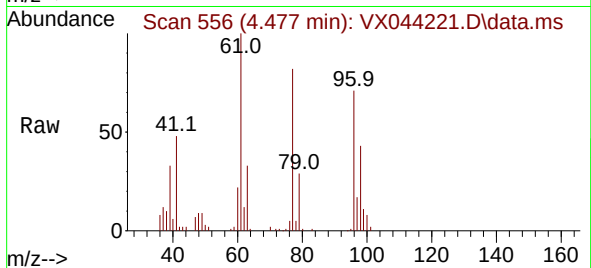
Tgt Ion: 96 Resp: 39161

Ion Ratio Lower Upper

96 100

61 147.6 0.0 299.0

98 65.5 0.0 129.0



#28

Bromochloromethane

Concen: 20.052 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

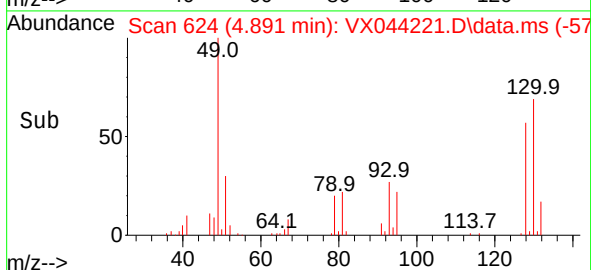
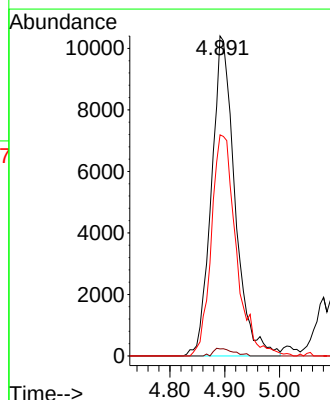
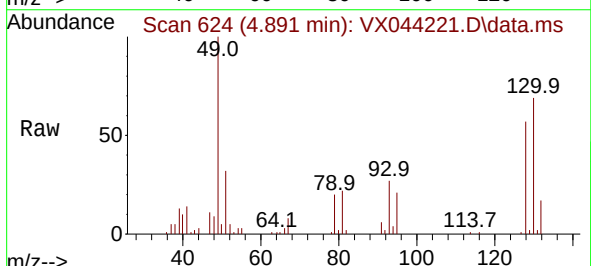
Tgt Ion: 49 Resp: 30977

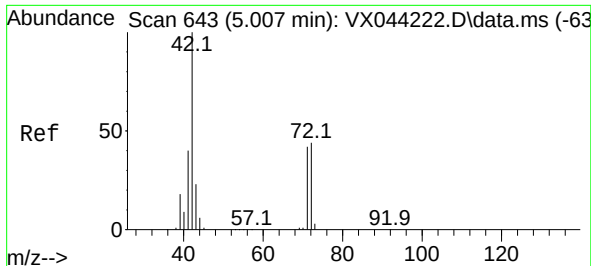
Ion Ratio Lower Upper

49 100

129 2.0 0.0 4.2

130 73.1 62.1 93.1

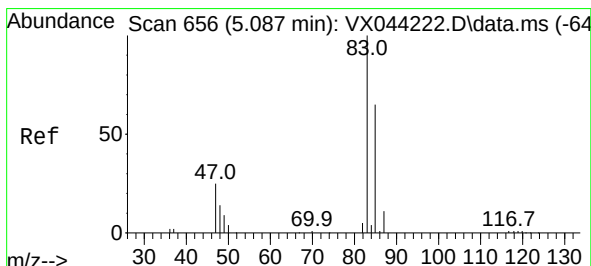
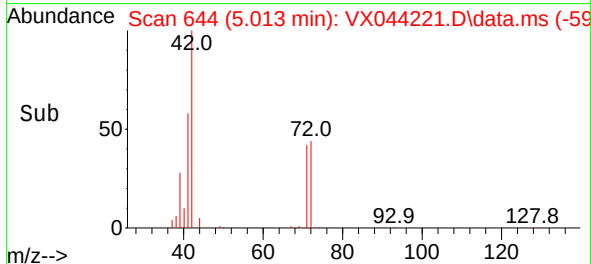
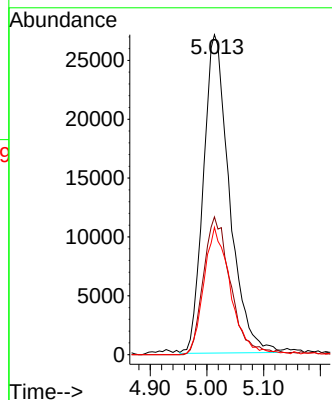
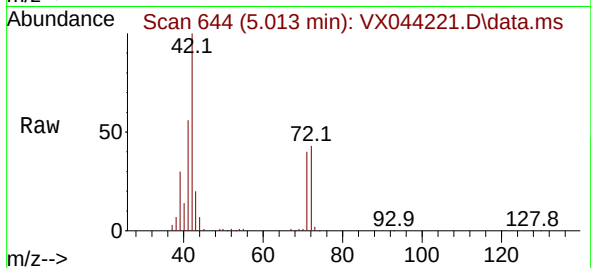




#29
Tetrahydrofuran
Concen: 98.343 ug/l
RT: 5.013 min Scan# 644
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

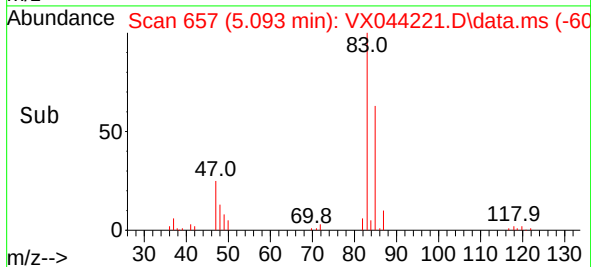
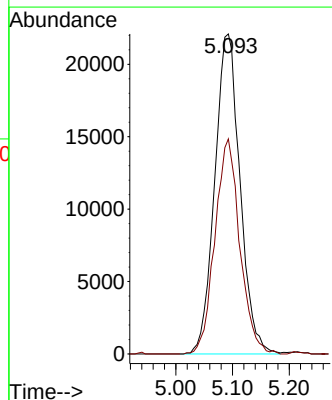
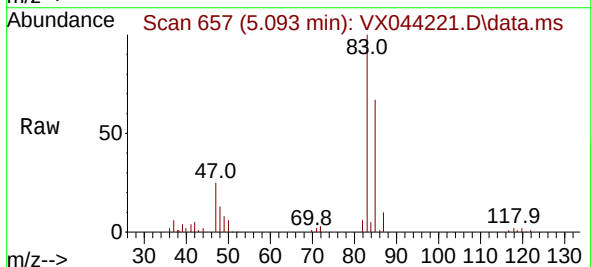
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

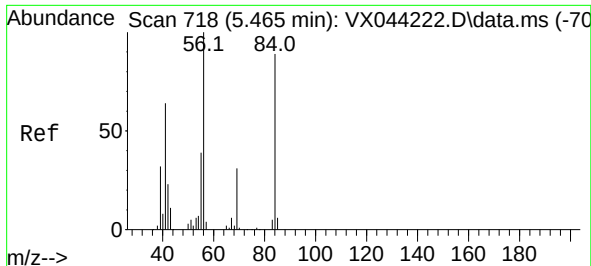
Tgt Ion:	42	Resp:	86235
Ion Ratio	Lower	Upper	
42	100		
72	45.2	37.0	55.6
71	41.1	33.6	50.4



#30
Chloroform
Concen: 19.327 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:	83	Resp:	68410
Ion Ratio	Lower	Upper	
83	100		
85	67.2	51.6	77.4

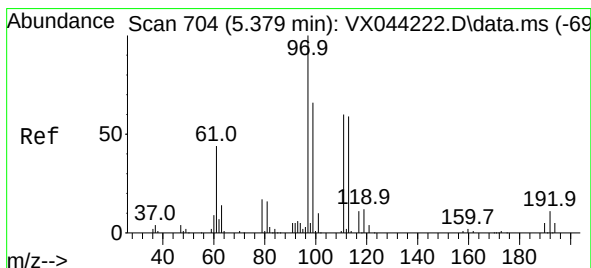
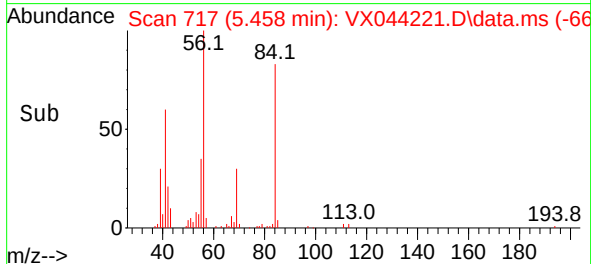
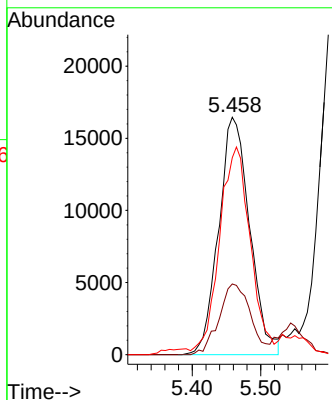
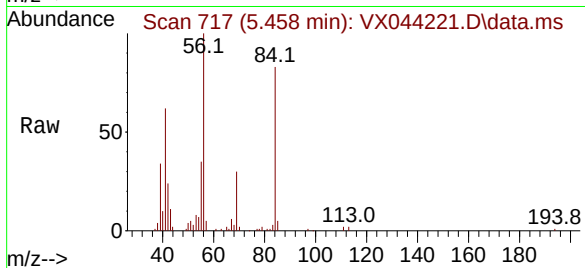




#31
Cyclohexane
Concen: 20.351 ug/l
RT: 5.458 min Scan# 718
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

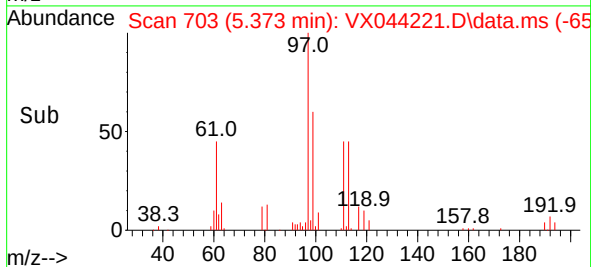
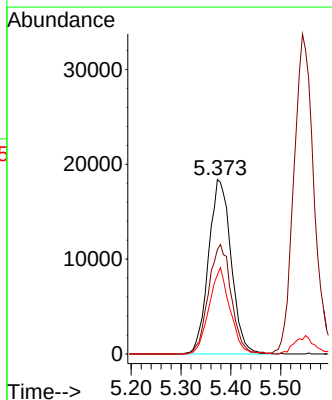
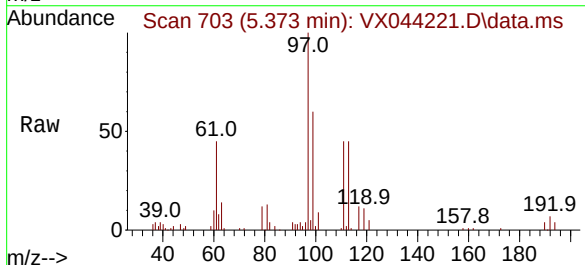
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

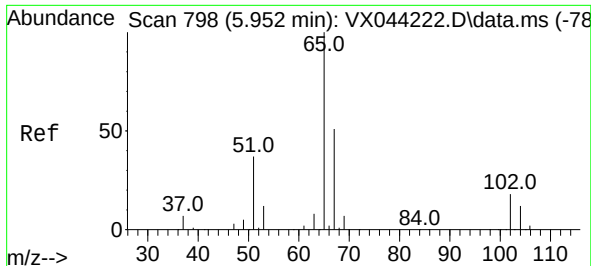
Tgt Ion: 56 Resp: 51773
Ion Ratio Lower Upper
56 100
69 29.8 24.7 37.1
84 80.7 71.0 106.6



#32
1,1,1-Trichloroethane
Concen: 19.706 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 97 Resp: 57900
Ion Ratio Lower Upper
97 100
99 63.0 50.8 76.2
61 45.7 35.2 52.8





#33

1,2-Dichloroethane-d4

Concen: 17.743 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

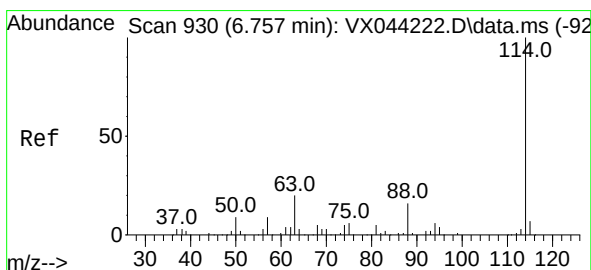
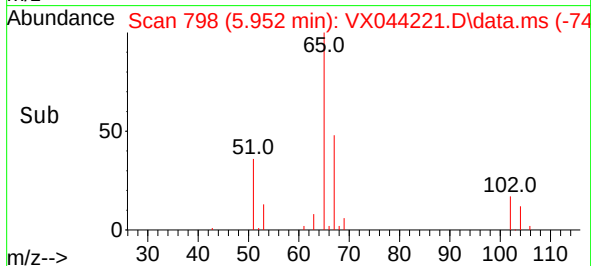
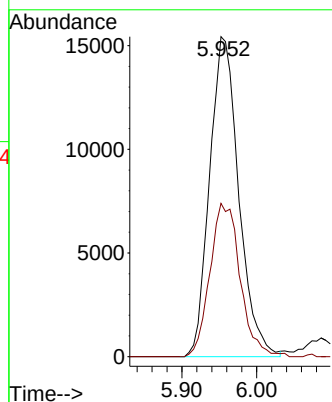
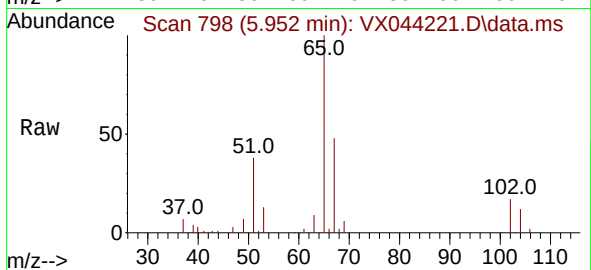
VSTDIC020

Tgt Ion: 65 Resp: 41821

Ion Ratio Lower Upper

65 100

67 49.6 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

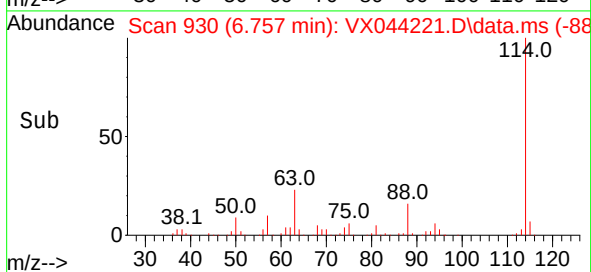
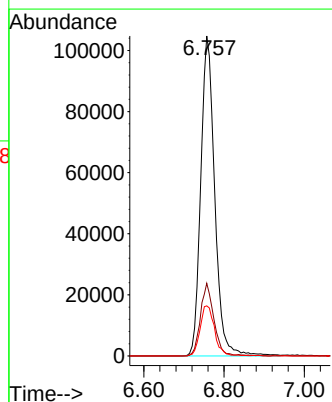
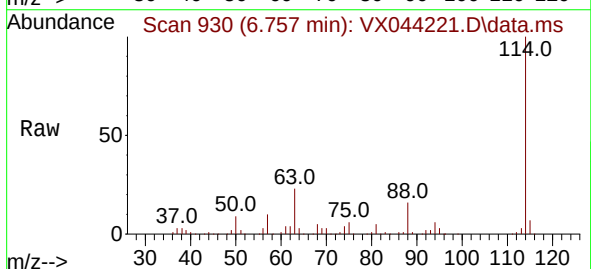
Tgt Ion: 114 Resp: 254199

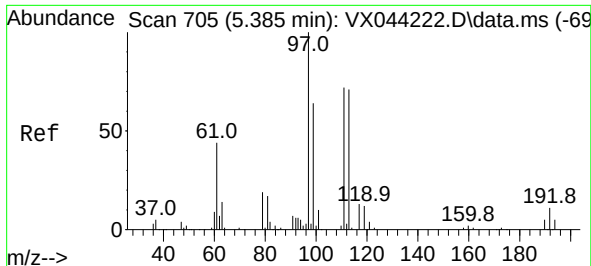
Ion Ratio Lower Upper

114 100

63 22.7 0.0 40.6

88 15.7 0.0 31.8





#35

Dibromofluoromethane

Concen: 17.213 ug/l

RT: 5.391 min Scan# 705

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

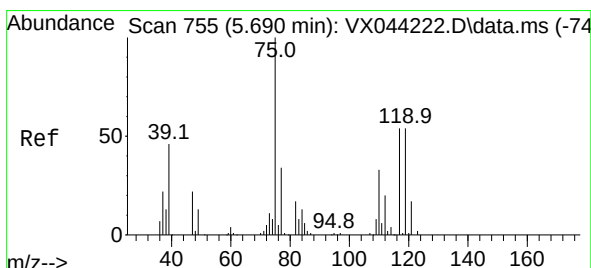
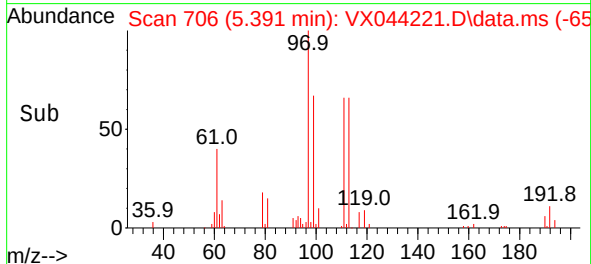
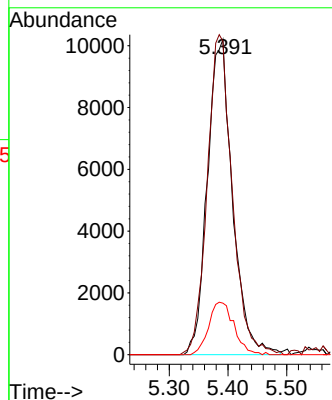
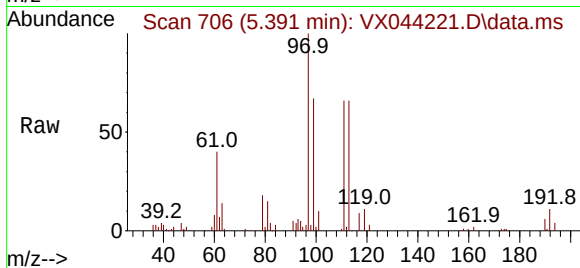
Tgt Ion:113 Resp: 30304

Ion Ratio Lower Upper

113 100

111 100.9 80.4 120.6

192 16.7 13.3 19.9



#36

1,1-Dichloropropene

Concen: 18.841 ug/l

RT: 5.690 min Scan# 755

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

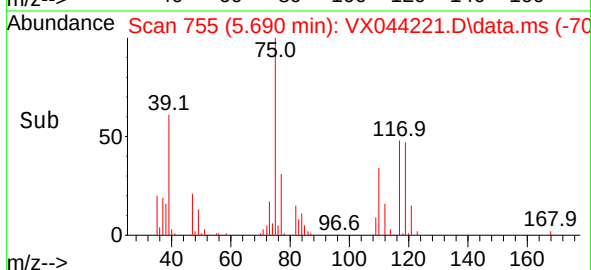
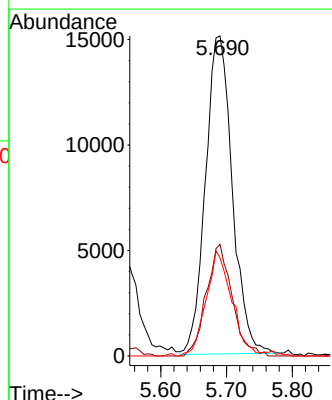
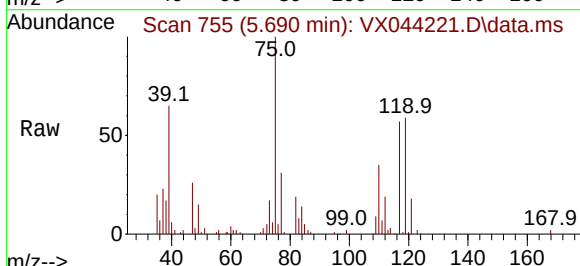
Tgt Ion: 75 Resp: 42878

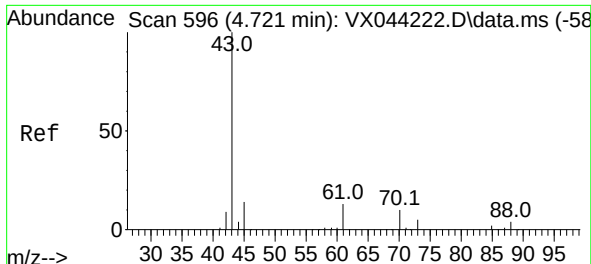
Ion Ratio Lower Upper

75 100

110 33.7 17.3 51.7

77 31.3 25.4 38.0





#37

Ethyl Acetate

Concen: 19.913 ug/l

RT: 4.727 min Scan# 596

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

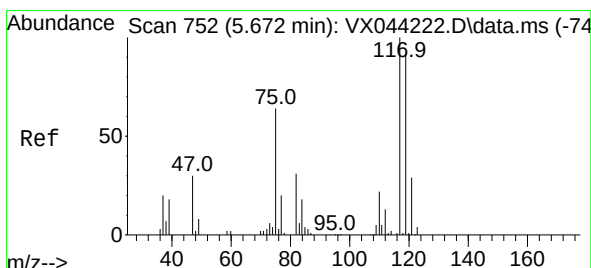
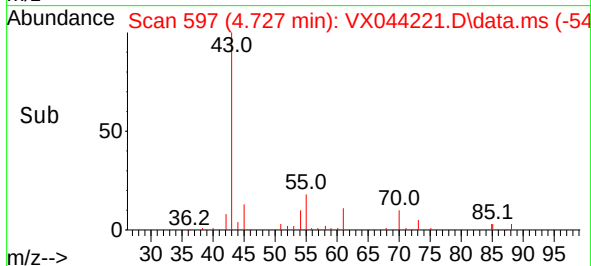
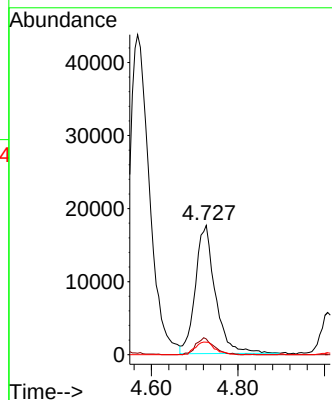
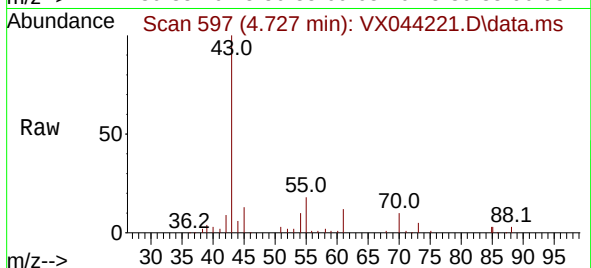
Tgt Ion: 43 Resp: 56019

Ion Ratio Lower Upper

43 100

61 11.8 9.8 14.8

70 9.9 7.7 11.5



#38

Carbon Tetrachloride

Concen: 17.918 ug/l

RT: 5.672 min Scan# 752

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

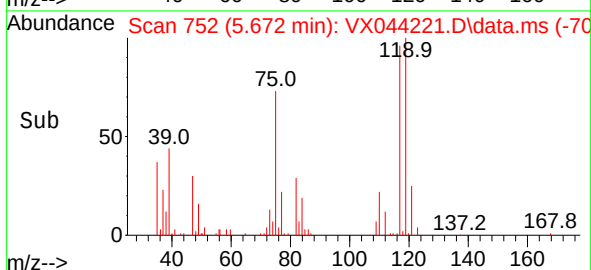
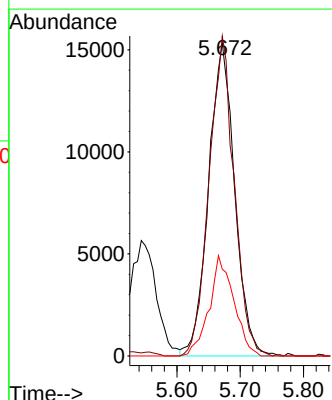
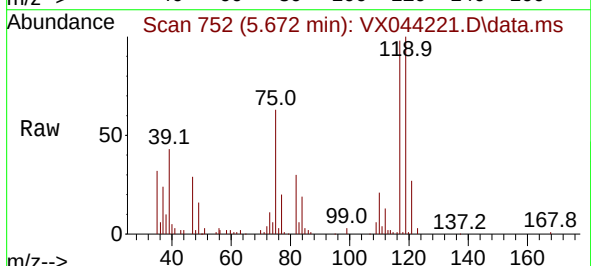
Tgt Ion: 117 Resp: 43901

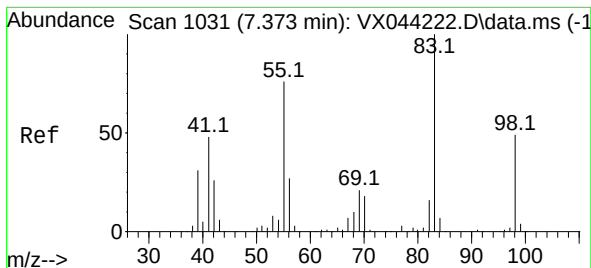
Ion Ratio Lower Upper

117 100

119 102.3 74.2 111.4

121 27.8 23.0 34.6





#39

Methylcyclohexane

Concen: 19.678 ug/l

RT: 7.379 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

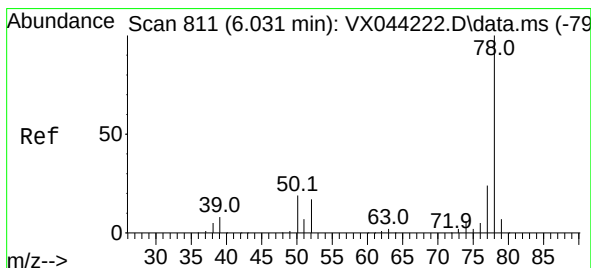
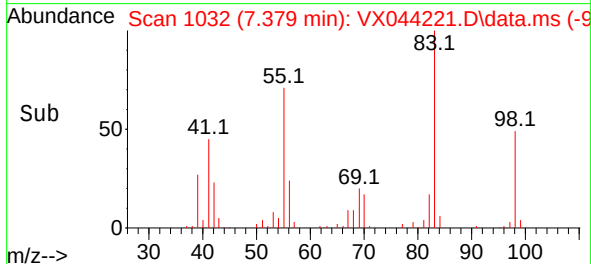
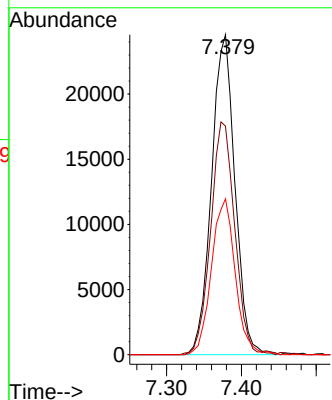
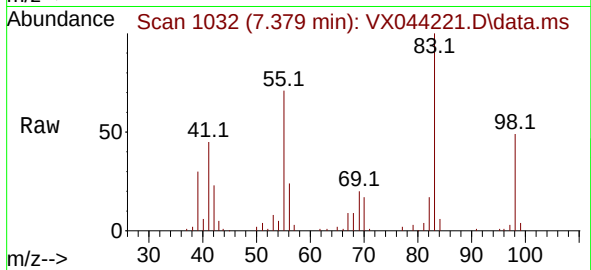
Tgt Ion: 83 Resp: 53536

Ion Ratio Lower Upper

83 100

55 71.4 60.7 91.1

98 48.7 38.9 58.3



#40

Benzene

Concen: 19.606 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX044221.D

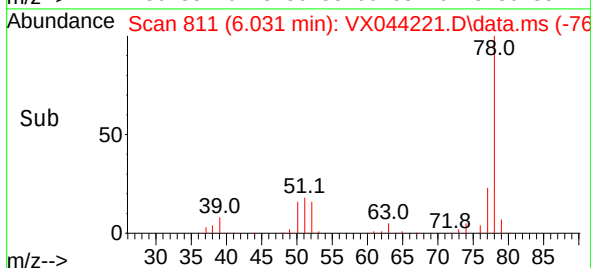
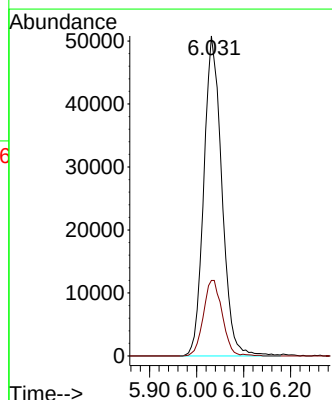
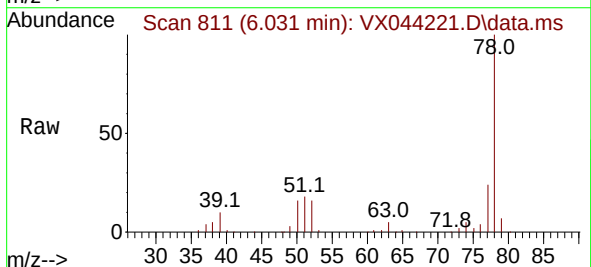
Acq: 11 Dec 2024 11:50

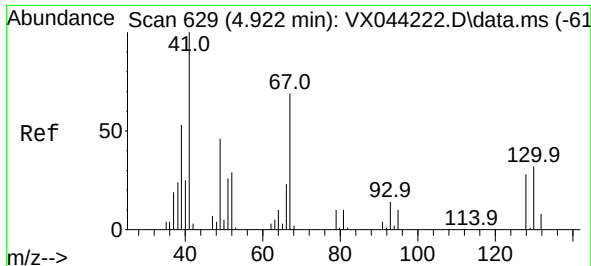
Tgt Ion: 78 Resp: 135467

Ion Ratio Lower Upper

78 100

77 23.6 19.3 28.9

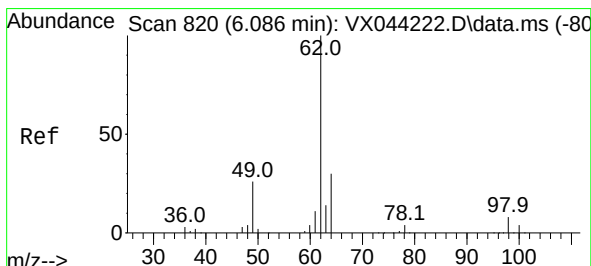
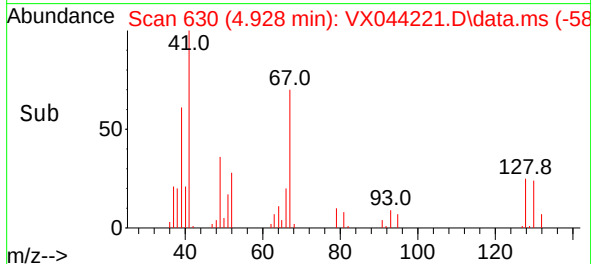
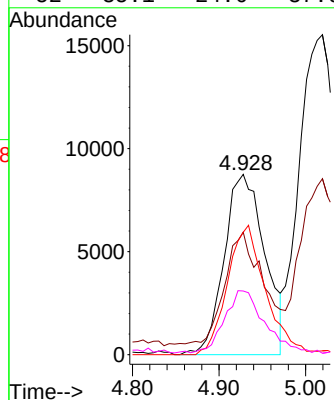
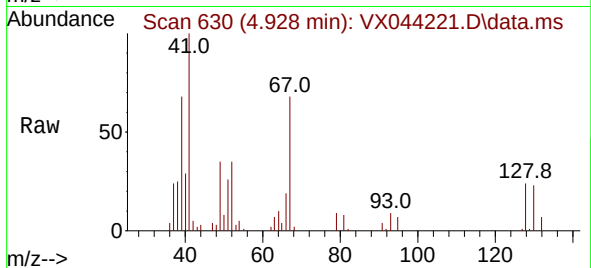




#41
Methacrylonitrile
Concen: 19.095 ug/l
RT: 4.928 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

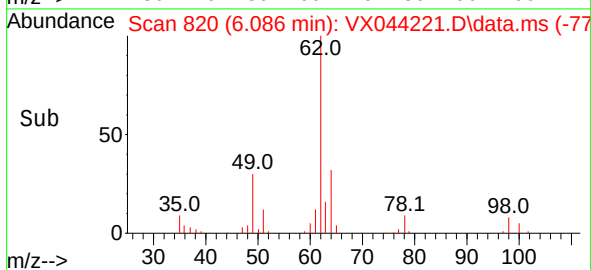
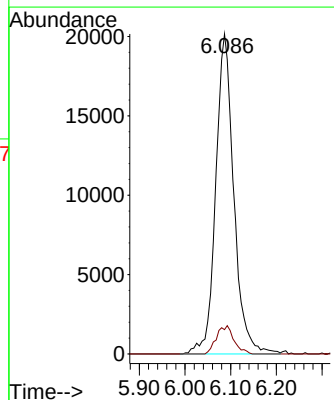
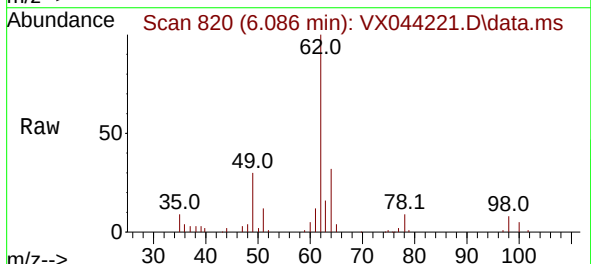
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

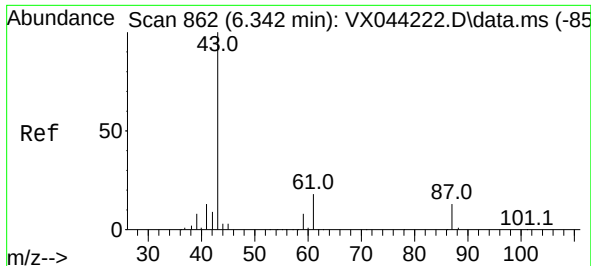
Tgt Ion:	41	Resp:	28523
Ion	Ratio	Lower	Upper
41	100		
39	59.0	44.2	66.4
67	67.6	57.2	85.8
52	35.1	24.6	37.0



#42
1,2-Dichloroethane
Concen: 19.456 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:	62	Resp:	55377
Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	15.8





#43

Isopropyl Acetate

Concen: 19.301 ug/l

RT: 6.342 min Scan# 862

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

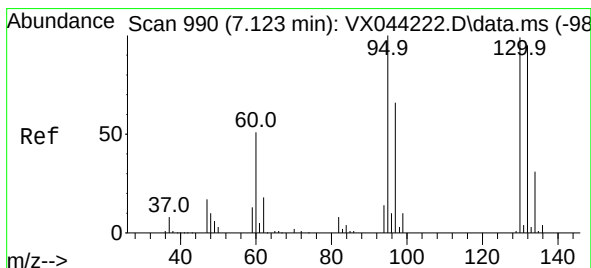
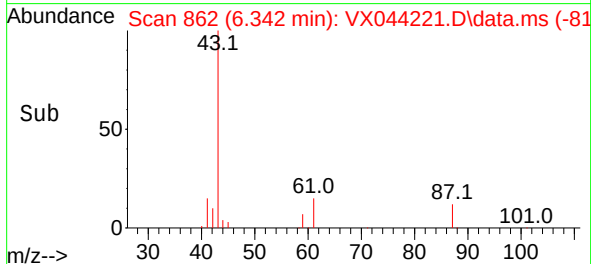
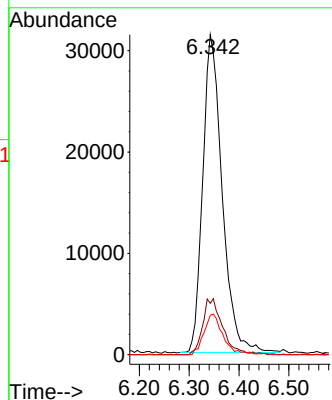
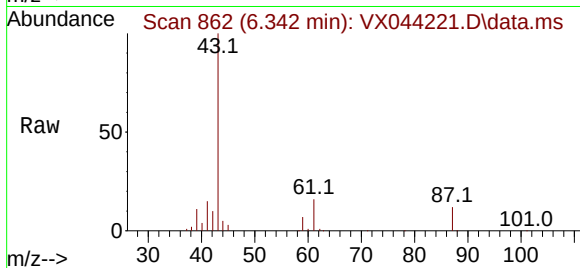
Tgt Ion: 43 Resp: 84866

Ion Ratio Lower Upper

43 100

61 17.7 14.2 21.2

87 12.5 10.2 15.2



#44

Trichloroethene

Concen: 19.149 ug/l

RT: 7.123 min Scan# 990

Delta R.T. -0.000 min

Lab File: VX044221.D

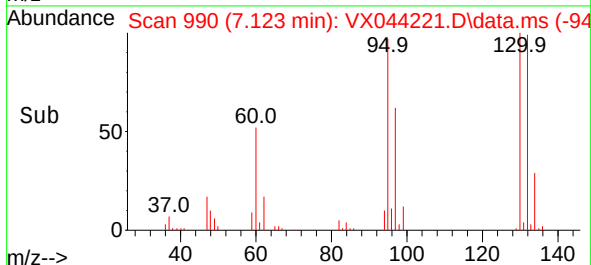
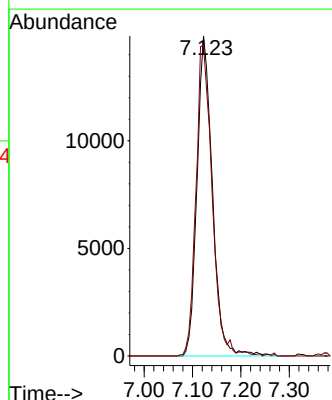
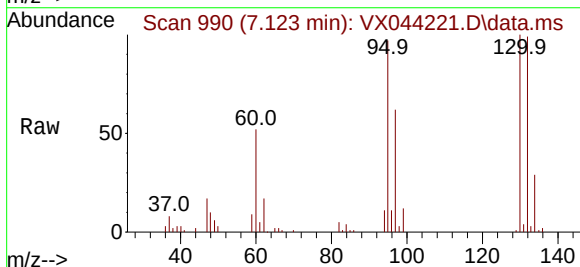
Acq: 11 Dec 2024 11:50

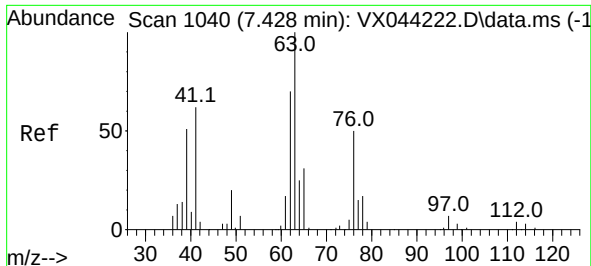
Tgt Ion:130 Resp: 32995

Ion Ratio Lower Upper

130 100

95 97.1 0.0 201.4

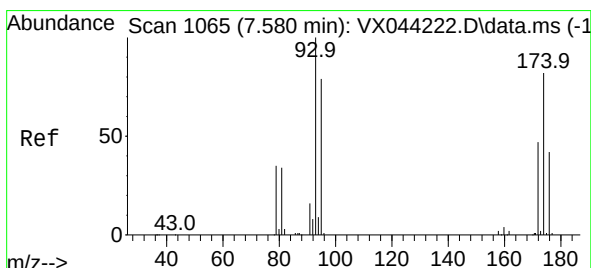
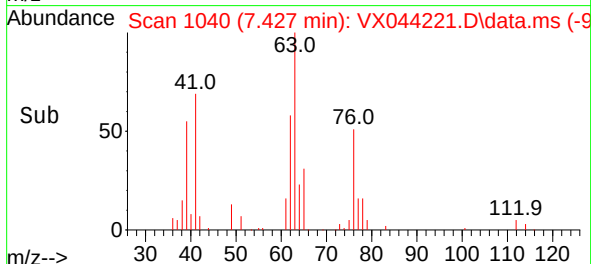
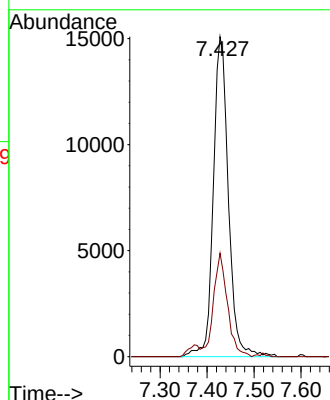
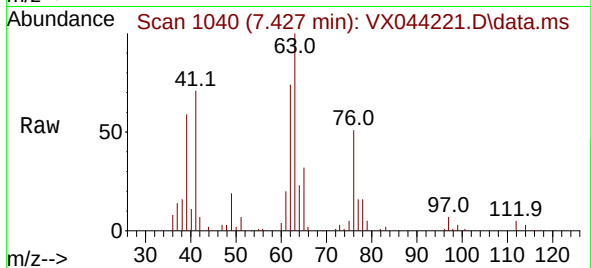




#45
1,2-Dichloropropane
Concen: 19.025 ug/l
RT: 7.427 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

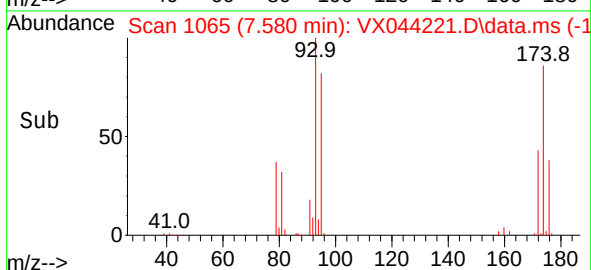
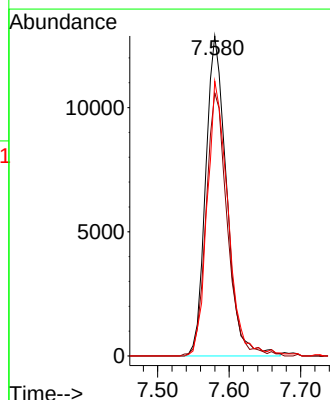
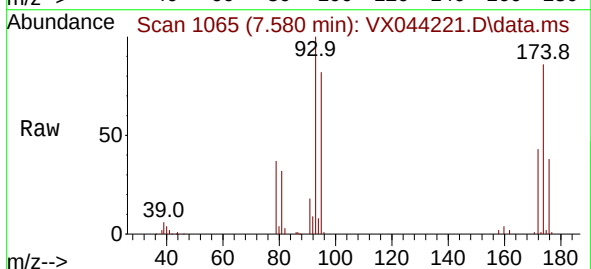
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

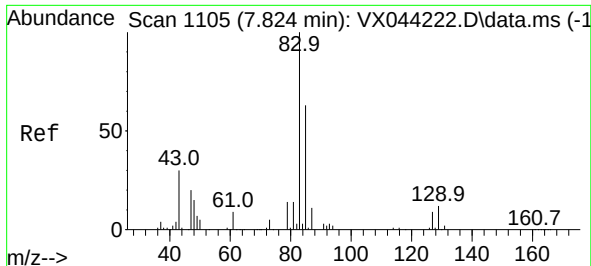
Tgt Ion: 63 Resp: 33585
Ion Ratio Lower Upper
63 100
65 32.4 24.6 37.0



#46
Dibromomethane
Concen: 19.199 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 93 Resp: 26293
Ion Ratio Lower Upper
93 100
95 83.0 65.4 98.2
174 86.1 67.9 101.9





#47

Bromodichloromethane

Concen: 18.735 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. -0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

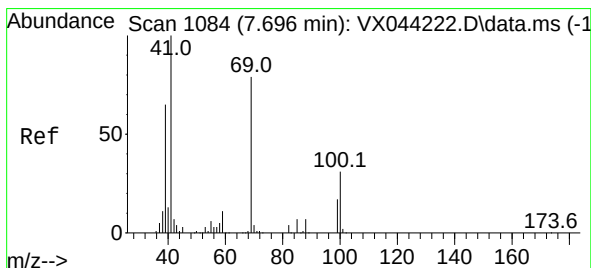
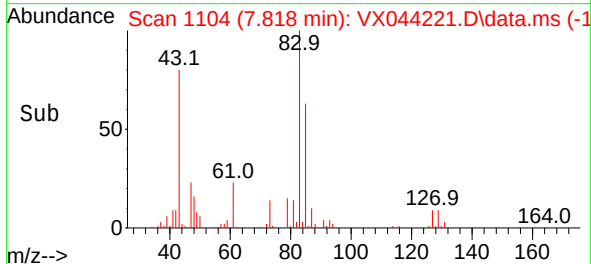
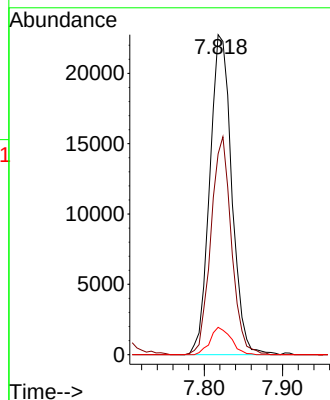
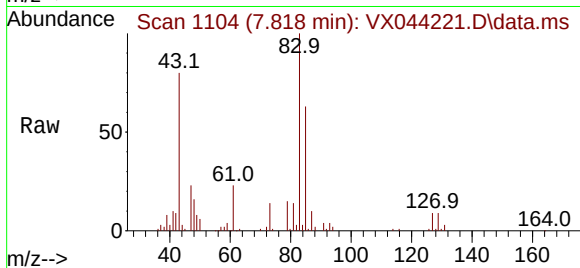
Tgt Ion: 83 Resp: 44312

Ion Ratio Lower Upper

83 100

85 62.7 50.6 75.8

127 8.6 7.3 10.9



#48

Methyl methacrylate

Concen: 19.032 ug/l

RT: 7.696 min Scan# 1084

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

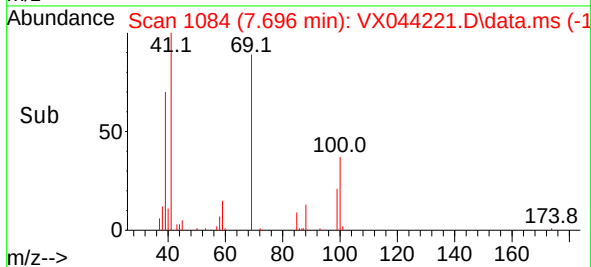
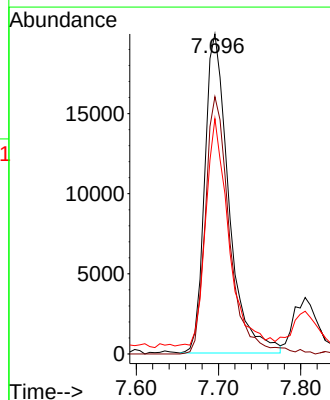
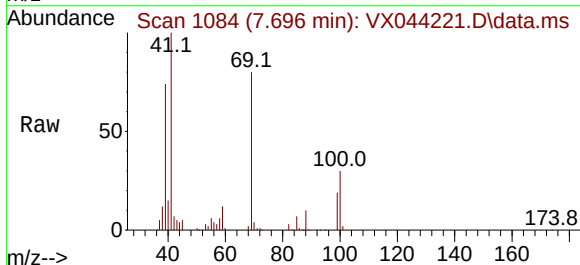
Tgt Ion: 41 Resp: 40620

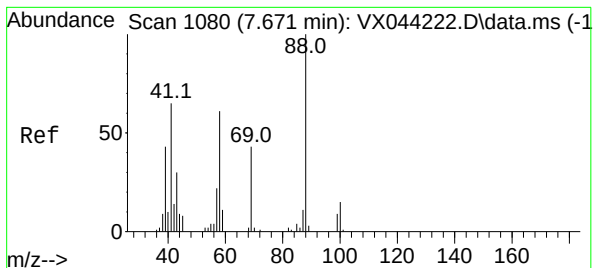
Ion Ratio Lower Upper

41 100

69 80.5 62.4 93.6

39 67.5 53.3 79.9

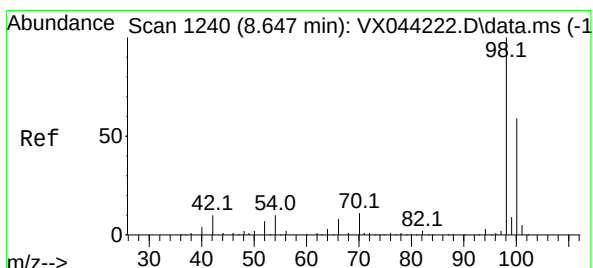
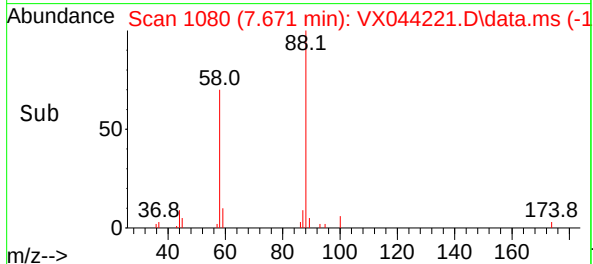
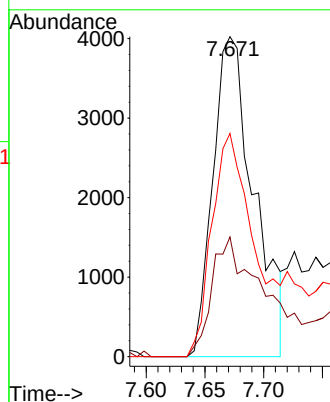
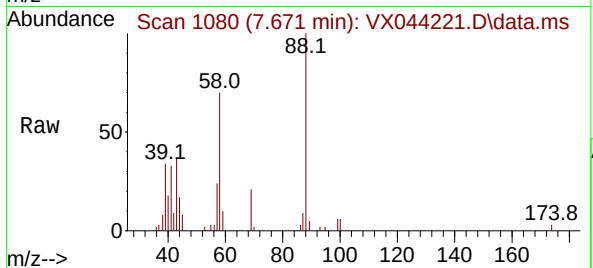




#49
1,4-Dioxane
Concen: 268.697 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

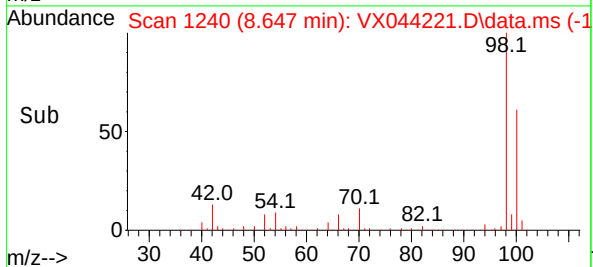
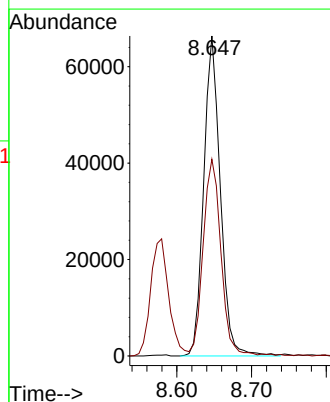
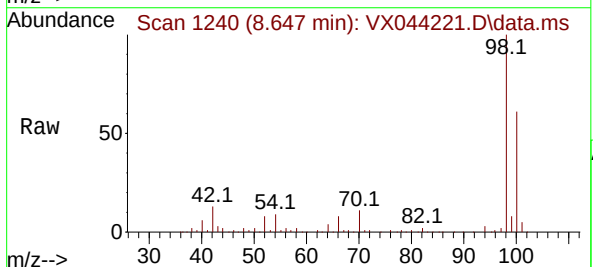
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

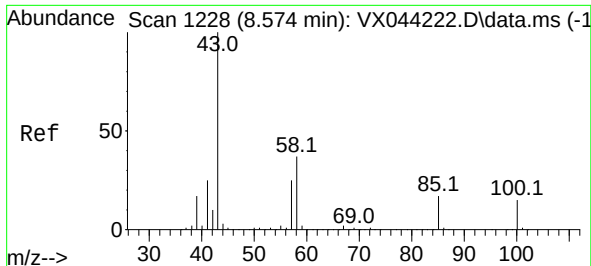
Tgt Ion: 88 Resp: 9801
Ion Ratio Lower Upper
88 100
43 49.5 27.1 40.7#
58 72.2 41.0 61.4#



#50
Toluene-d8
Concen: 17.284 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 98 Resp: 102660
Ion Ratio Lower Upper
98 100
100 65.4 51.5 77.3

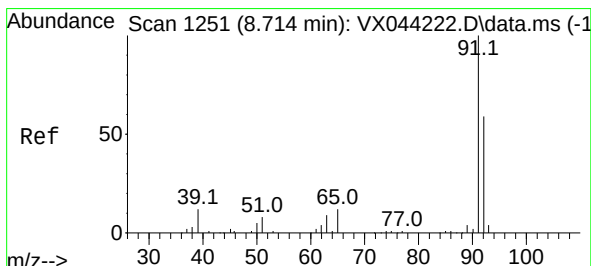
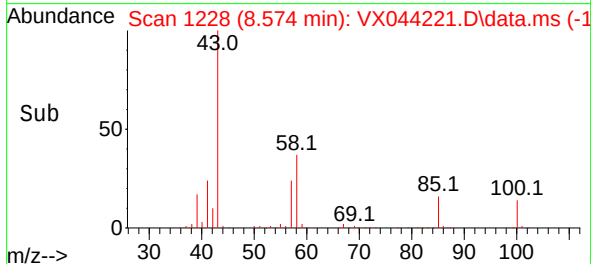
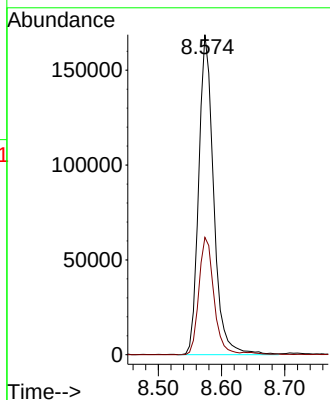
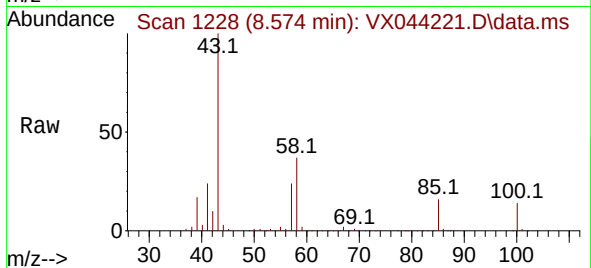




#51
4-Methyl-2-Pentanone
Concen: 98.429 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

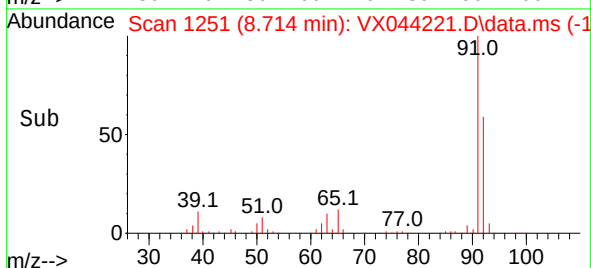
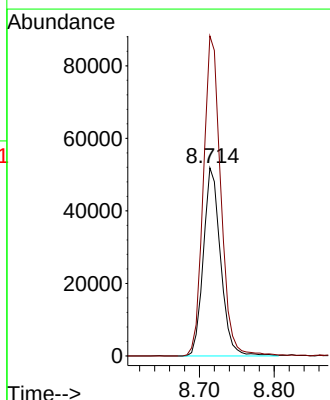
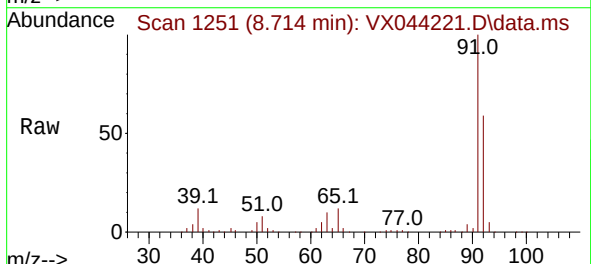
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

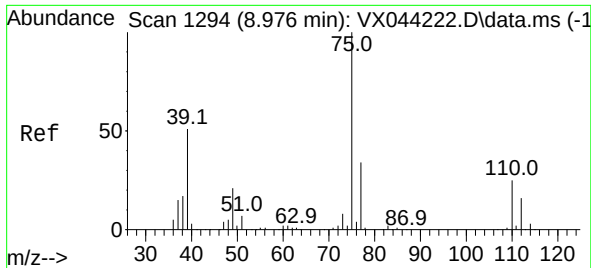
Tgt Ion: 43 Resp: 278267
Ion Ratio Lower Upper
43 100
58 36.6 29.4 44.0



#52
Toluene
Concen: 19.113 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 92 Resp: 82934
Ion Ratio Lower Upper
92 100
91 172.9 137.0 205.6

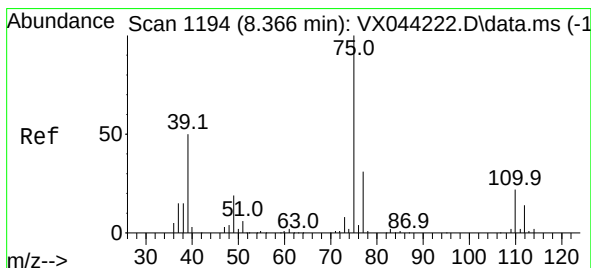
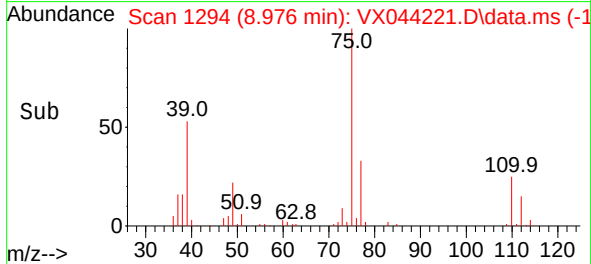
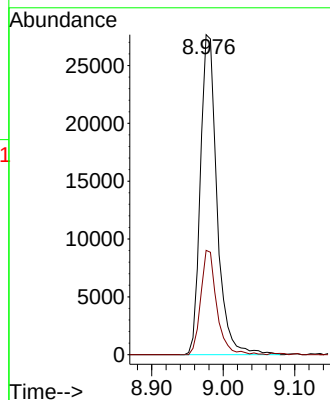
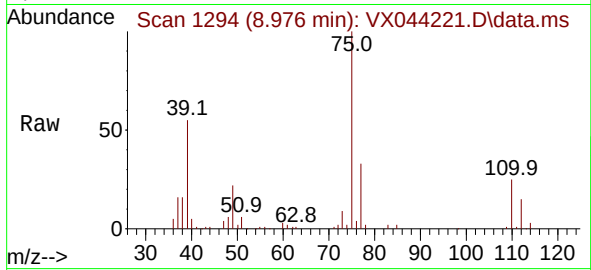




#53
t-1,3-Dichloropropene
Concen: 18.785 ug/l
RT: 8.976 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

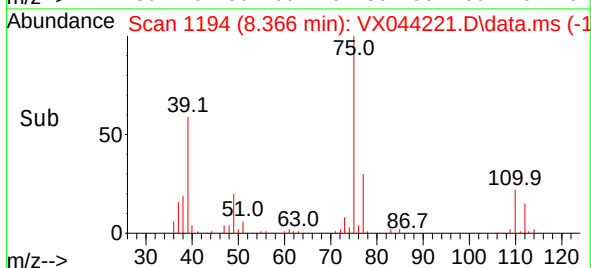
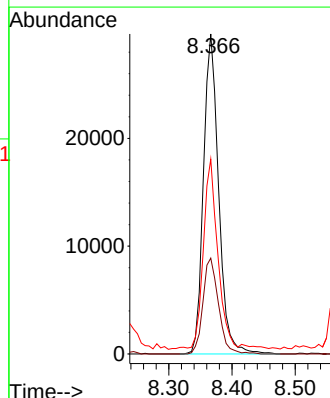
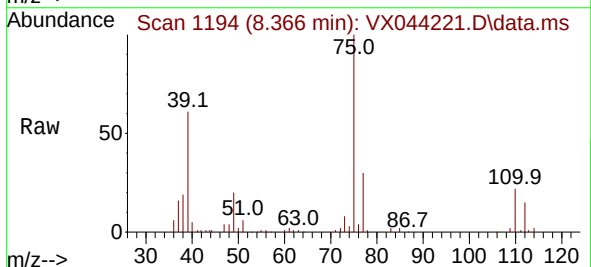
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

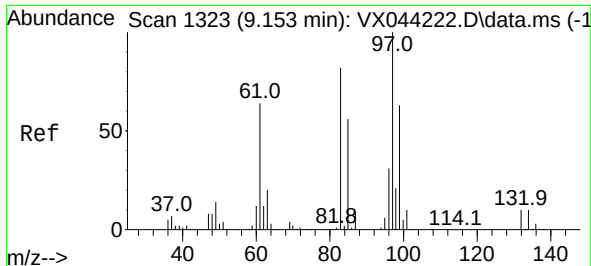
Tgt Ion: 75 Resp: 44614
Ion Ratio Lower Upper
75 100
77 32.6 27.2 40.8



#54
cis-1,3-Dichloropropene
Concen: 19.258 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 75 Resp: 49596
Ion Ratio Lower Upper
75 100
77 30.0 24.7 37.1
39 59.4 40.3 60.5



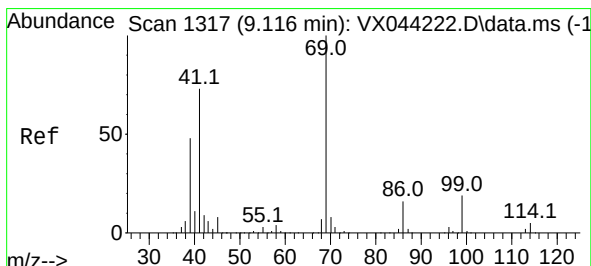
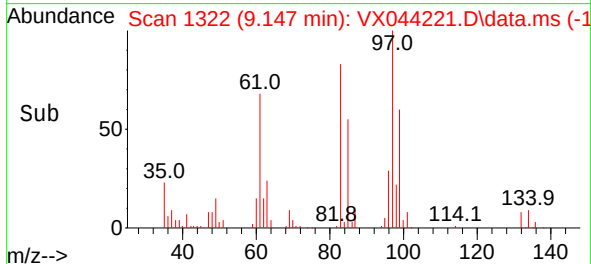
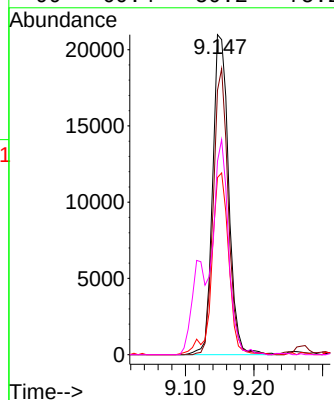
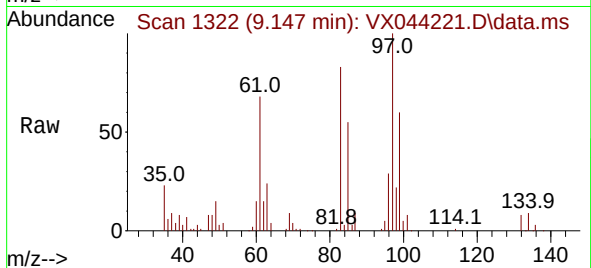


#55
1,1,2-Trichloroethane
Concen: 19.732 ug/l
RT: 9.147 min Scan# 1323
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 97 Resp: 34013

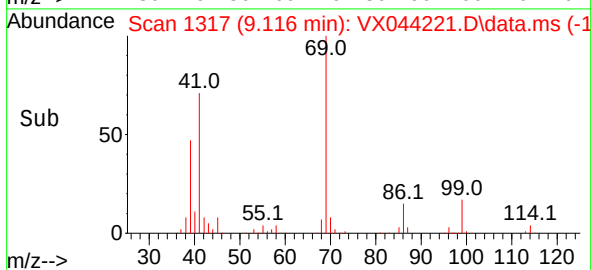
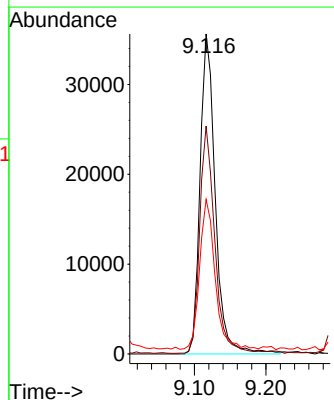
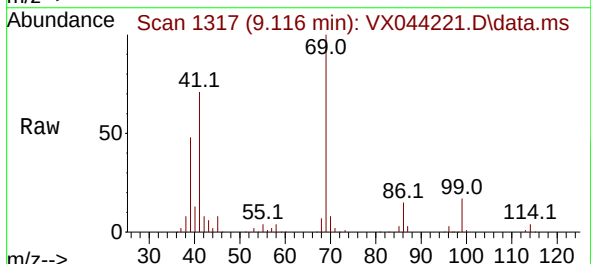
Ion	Ratio	Lower	Upper
97	100		
83	82.6	65.3	97.9
85	55.3	44.6	67.0
99	60.4	50.2	75.2

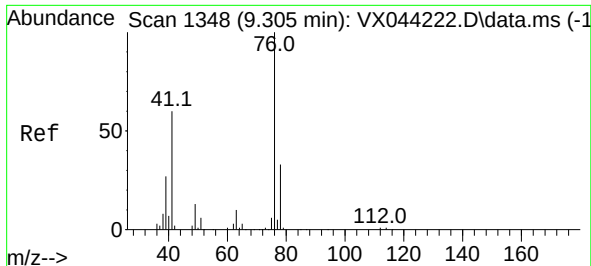


#56
Ethyl methacrylate
Concen: 19.318 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 69 Resp: 52571

Ion	Ratio	Lower	Upper
69	100		
41	70.3	56.6	85.0
39	47.8	37.4	56.0

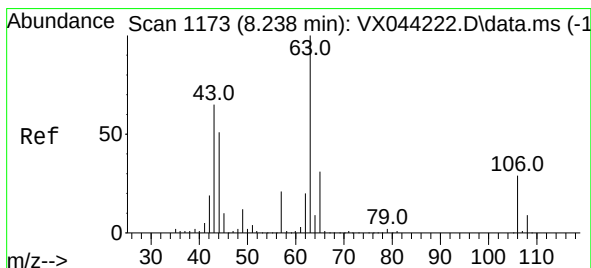
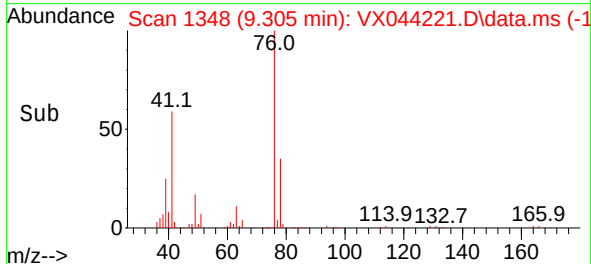
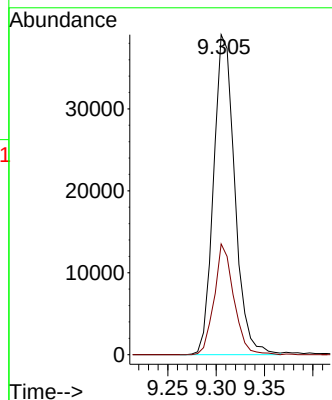
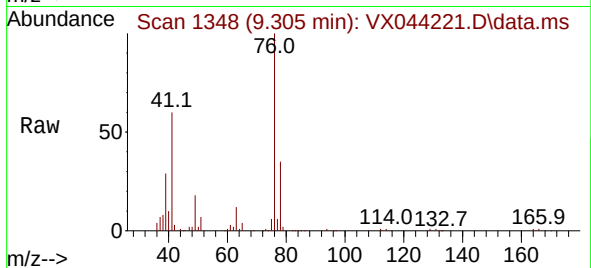




#57
1,3-Dichloropropane
Concen: 19.827 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

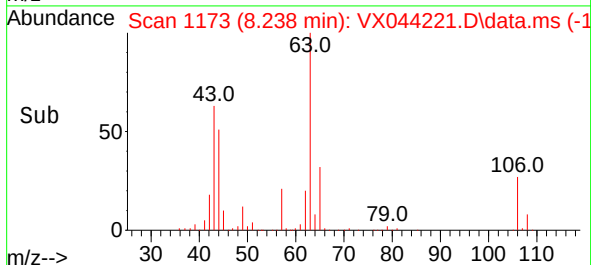
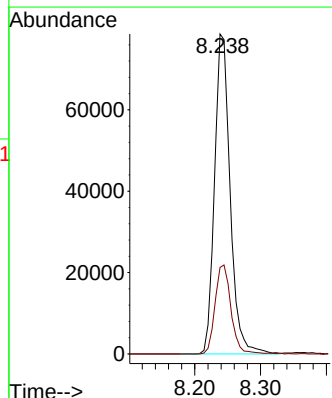
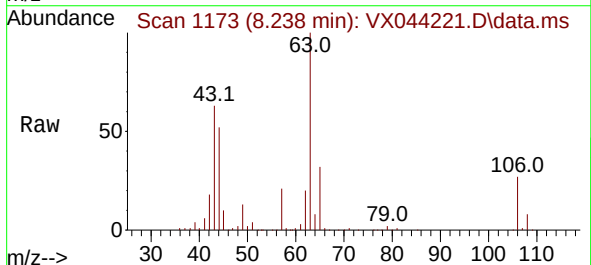
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

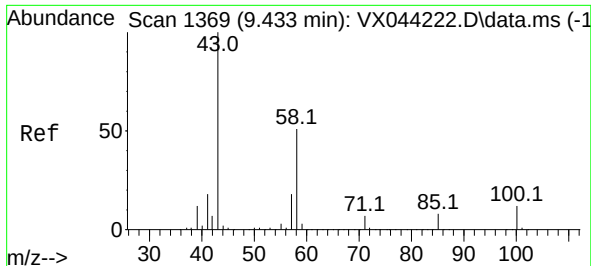
Tgt Ion: 76 Resp: 59489
Ion Ratio Lower Upper
76 100
78 31.9 26.5 39.7



#58
2-Chloroethyl Vinyl ether
Concen: 94.642 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 63 Resp: 129900
Ion Ratio Lower Upper
63 100
106 28.4 22.8 34.2

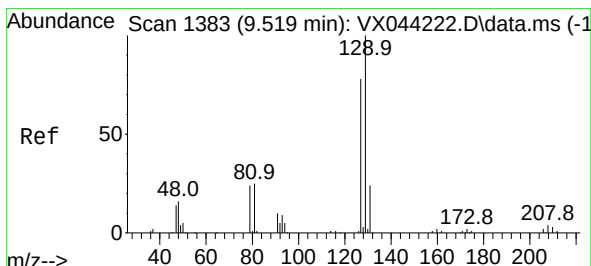
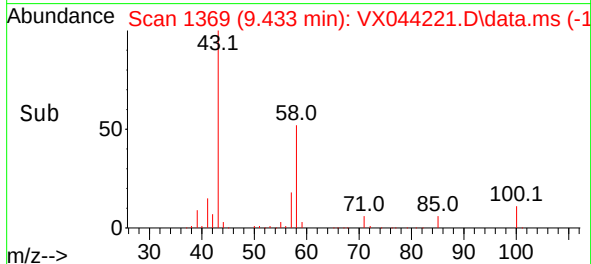
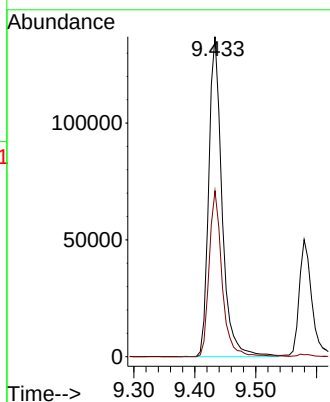
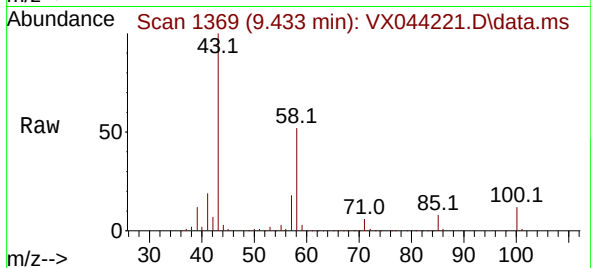




#59
2-Hexanone
Concen: 101.440 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

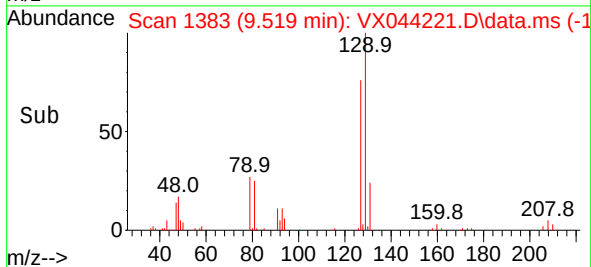
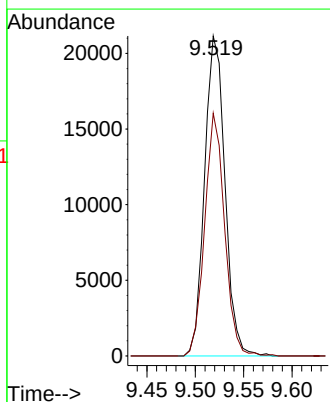
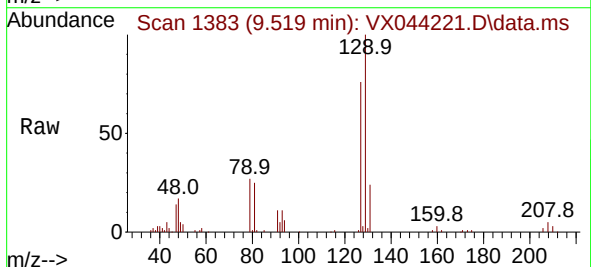
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

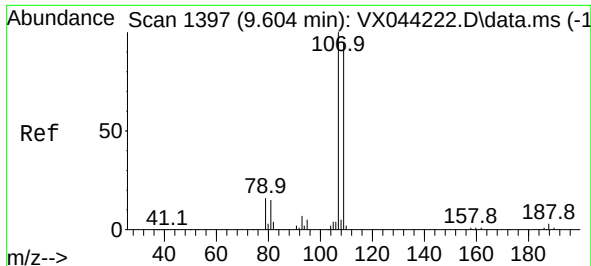
Tgt Ion: 43 Resp: 207578
Ion Ratio Lower Upper
43 100
58 50.4 25.7 77.0



#60
Dibromochloromethane
Concen: 18.318 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 129 Resp: 31066
Ion Ratio Lower Upper
129 100
127 74.1 38.5 115.3





#61

1,2-Dibromoethane

Concen: 19.935 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

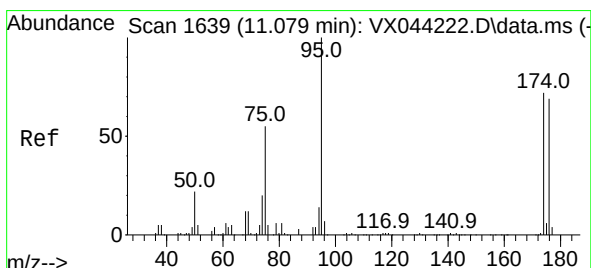
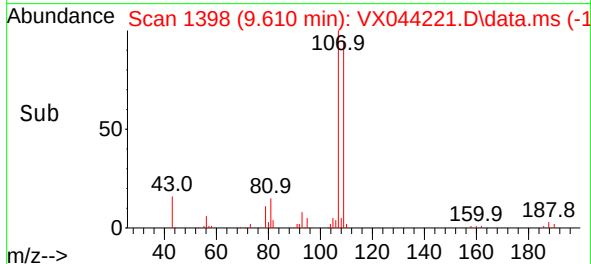
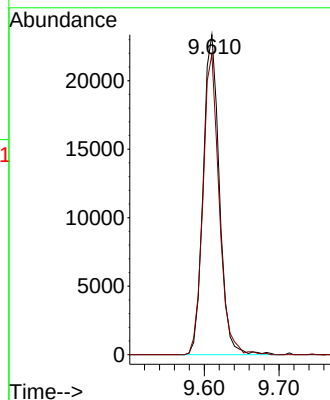
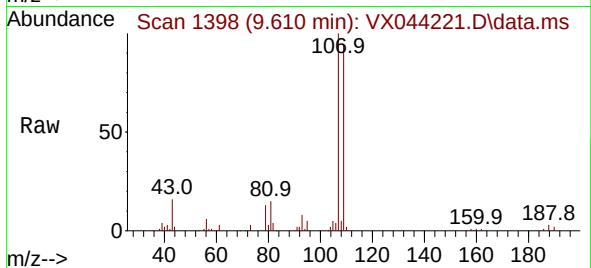
VSTDICC020

Tgt Ion:107 Resp: 34978

Ion Ratio Lower Upper

107 100

109 94.4 77.0 115.4



#62

4-Bromofluorobenzene

Concen: 17.175 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

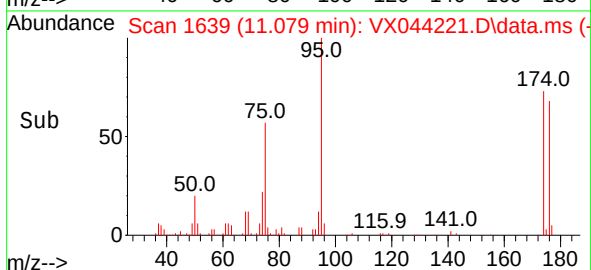
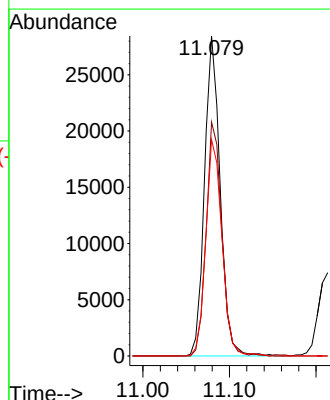
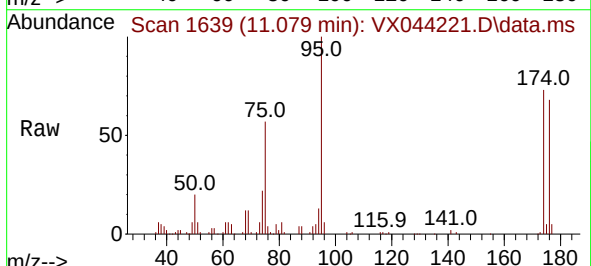
Tgt Ion: 95 Resp: 35645

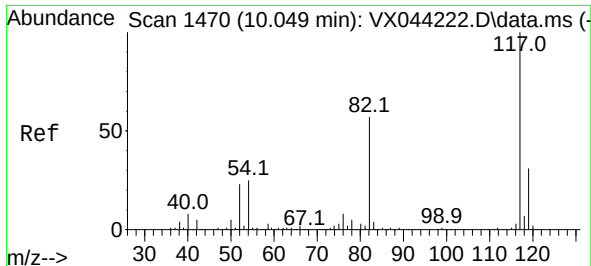
Ion Ratio Lower Upper

95 100

174 73.3 0.0 145.8

176 70.5 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

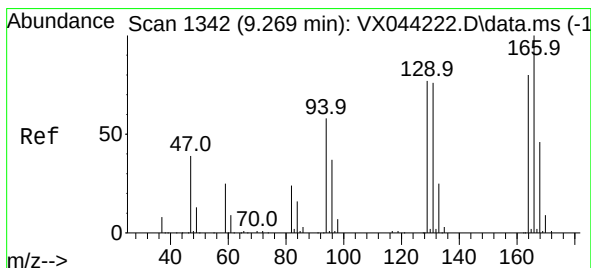
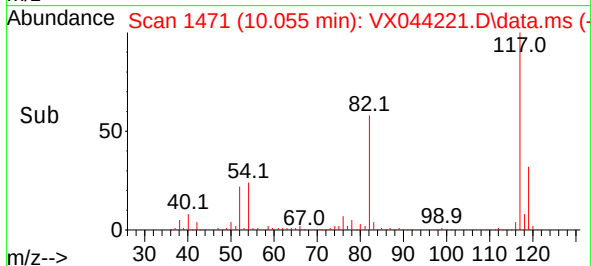
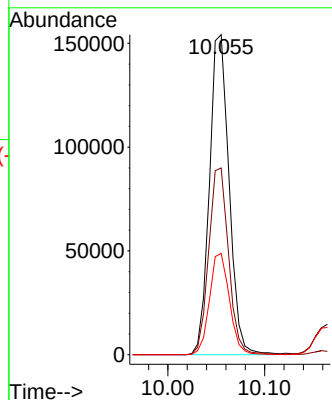
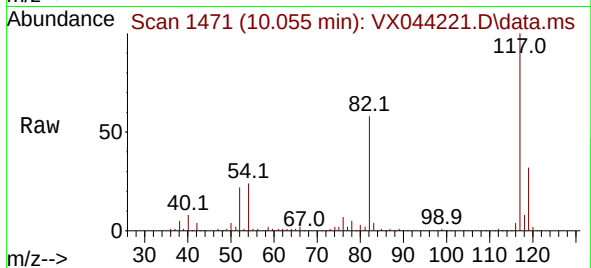
Tgt Ion:117 Resp: 218148

Ion Ratio Lower Upper

117 100

82 58.3 45.8 68.8

119 31.6 25.0 37.4



#64

Tetrachloroethene

Concen: 19.133 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Tgt Ion:164 Resp: 27702

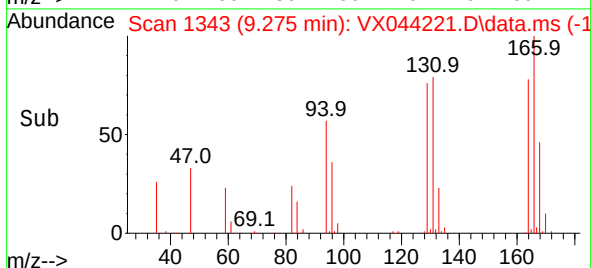
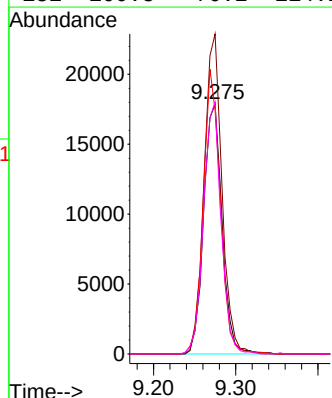
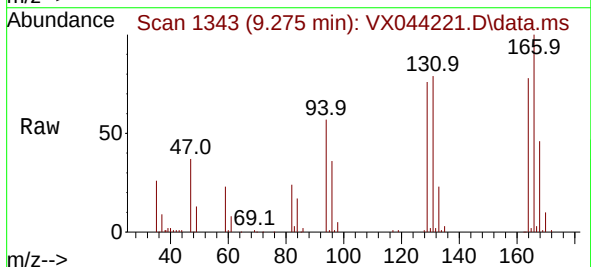
Ion Ratio Lower Upper

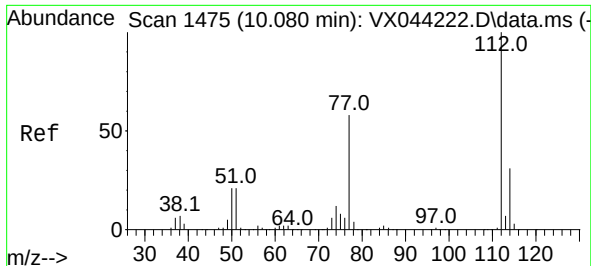
164 100

166 128.0 100.4 150.6

129 97.5 77.2 115.8

131 100.8 76.2 114.2





#65

Chlorobenzene

Concen: 19.389 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

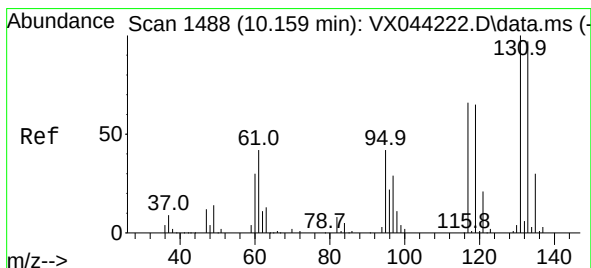
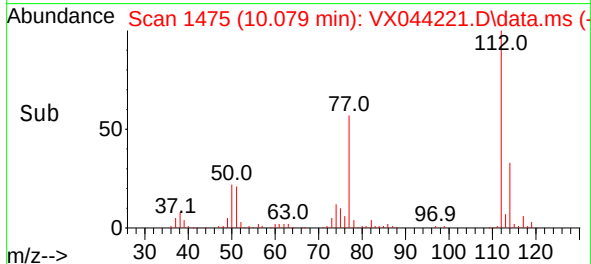
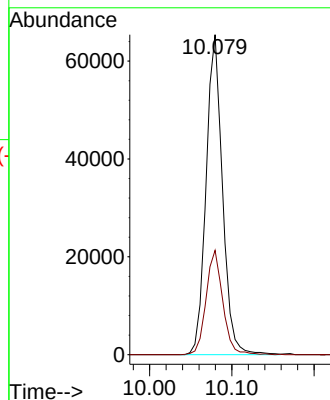
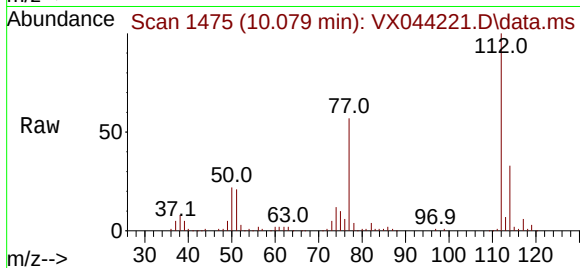
VSTDIC020

Tgt Ion:112 Resp: 90631

Ion Ratio Lower Upper

112 100

114 32.6 25.0 37.6



#66

1,1,1,2-Tetrachloroethane

Concen: 19.392 ug/l

RT: 10.165 min Scan# 1489

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

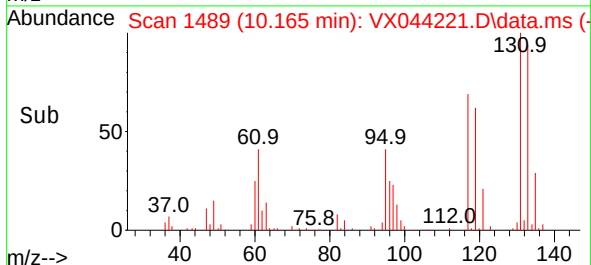
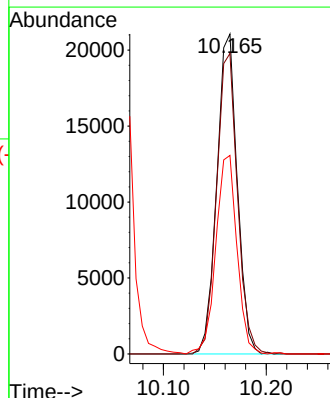
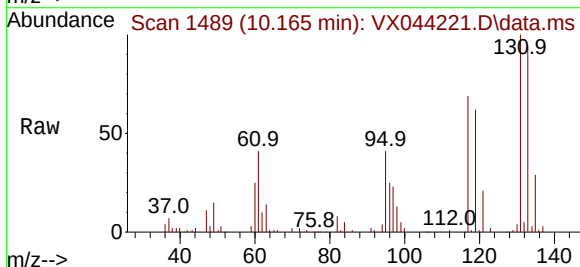
Tgt Ion:131 Resp: 29132

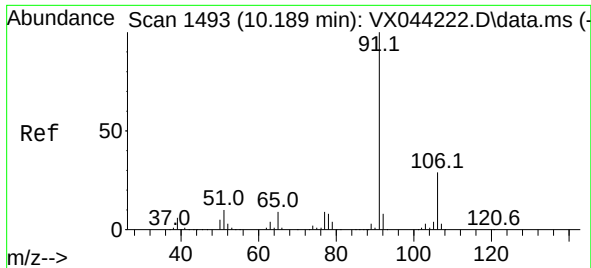
Ion Ratio Lower Upper

131 100

133 95.8 47.3 141.8

119 64.0 31.6 95.0





#67

Ethyl Benzene

Concen: 19.619 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

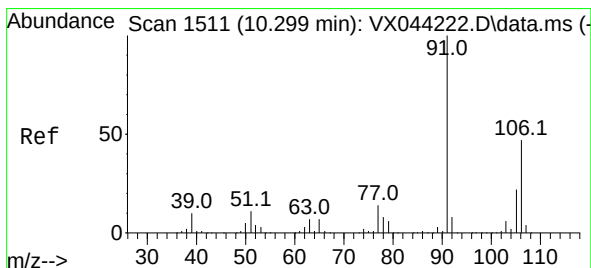
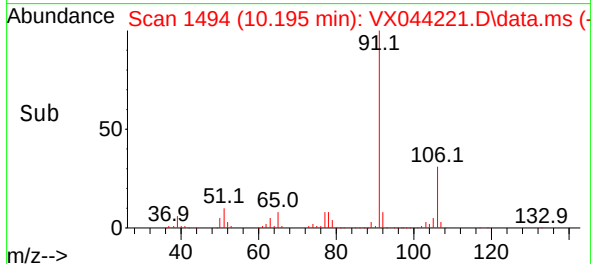
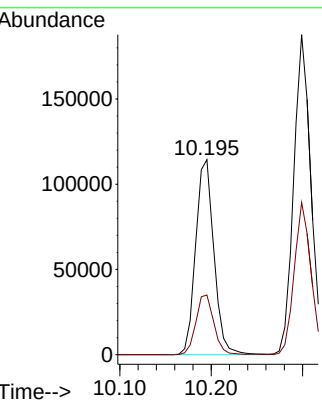
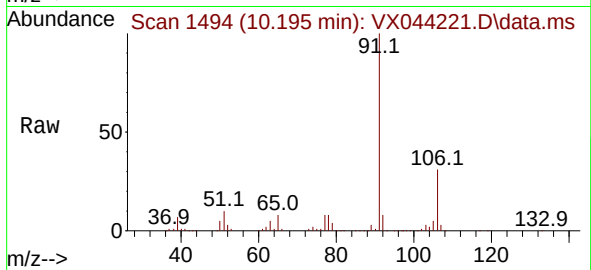
VSTDICC020

Tgt Ion: 91 Resp: 158455

Ion Ratio Lower Upper

91 100

106 30.6 23.5 35.3



#68

m/p-Xylenes

Concen: 39.183 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX044221.D

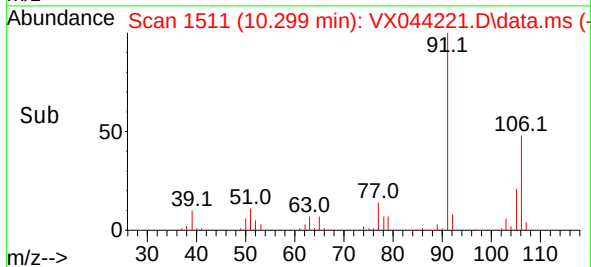
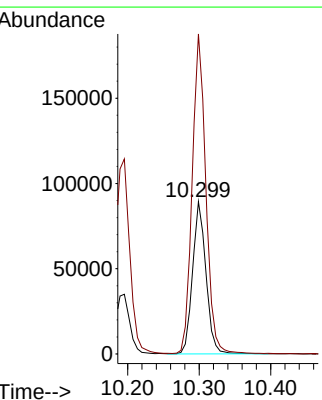
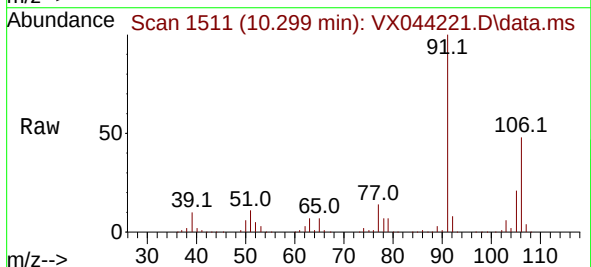
Acq: 11 Dec 2024 11:50

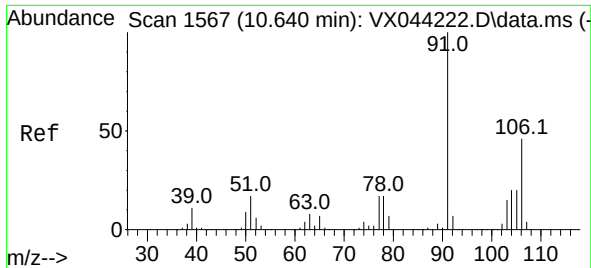
Tgt Ion:106 Resp: 116126

Ion Ratio Lower Upper

106 100

91 215.5 170.2 255.2

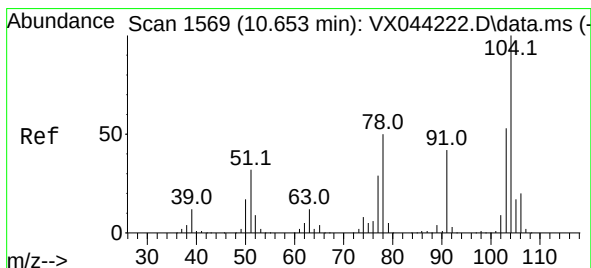
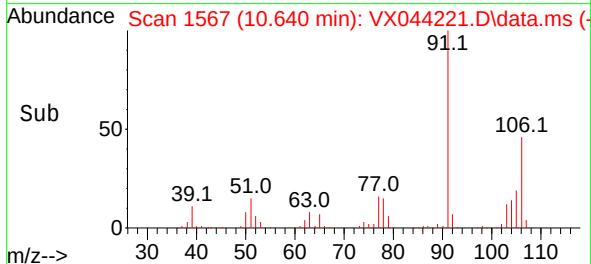
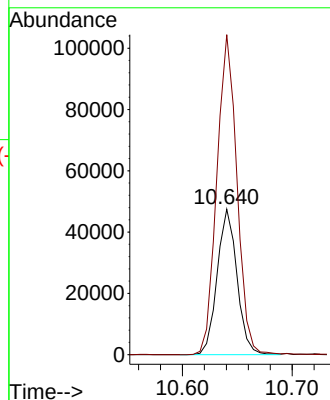
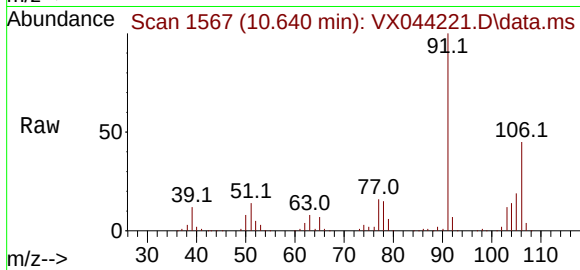




#69
o-Xylene
Concen: 19.938 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

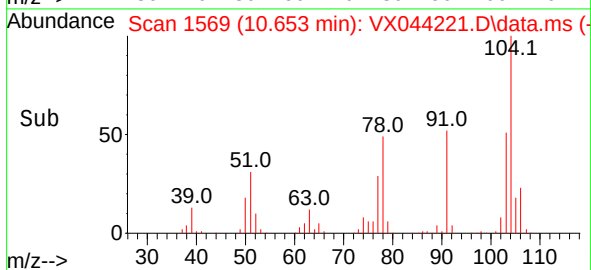
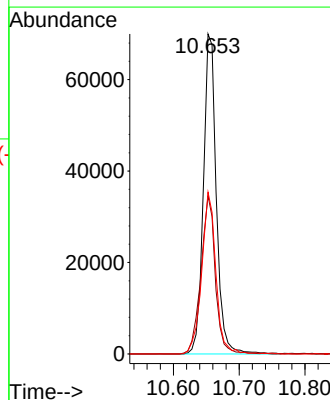
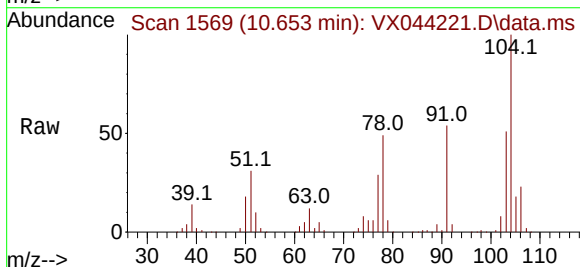
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

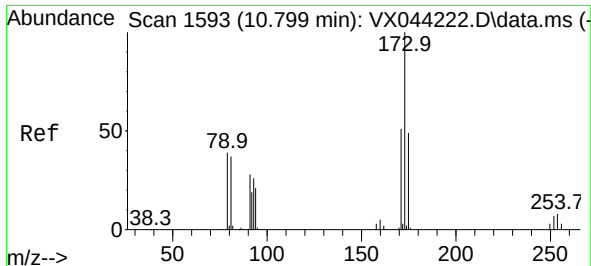
Tgt Ion:106 Resp: 59787
Ion Ratio Lower Upper
106 100
91 223.6 112.3 337.0



#70
Styrene
Concen: 19.946 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:104 Resp: 95883
Ion Ratio Lower Upper
104 100
78 54.7 44.6 67.0
103 55.2 45.4 68.0

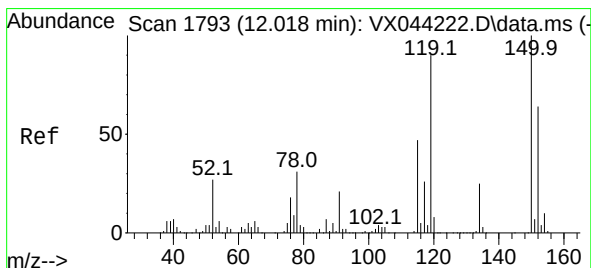
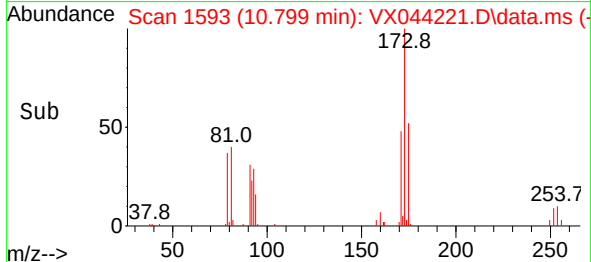
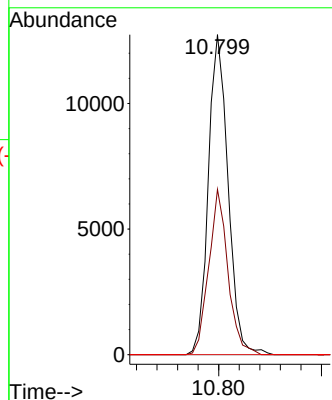
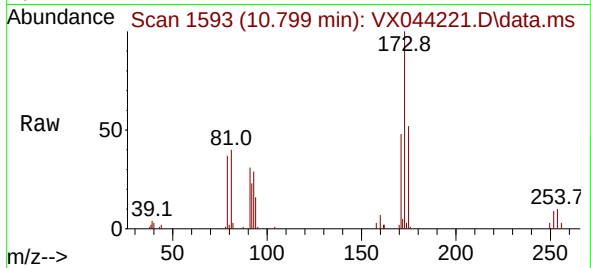




#71
Bromoform
Concen: 18.112 ug/l
RT: 10.799 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

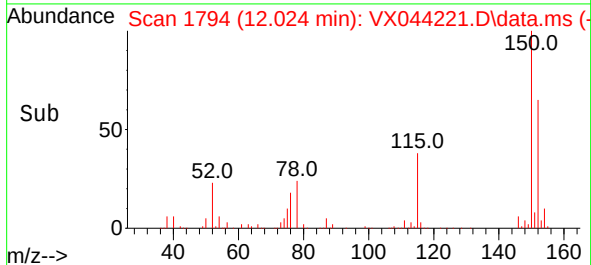
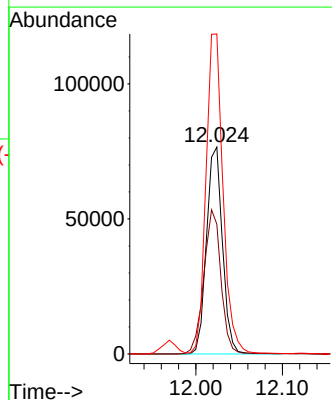
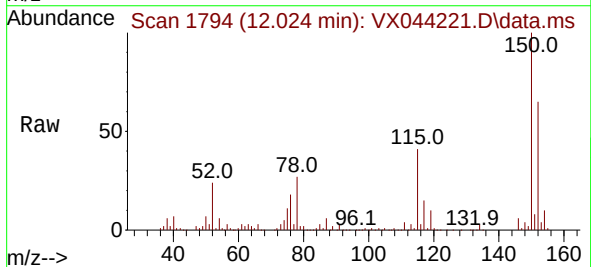
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

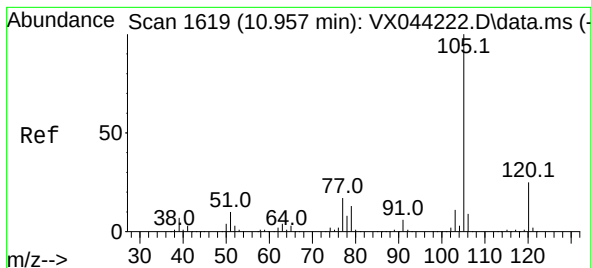
Tgt Ion:173 Resp: 16924
Ion Ratio Lower Upper
173 100
175 50.5 23.8 71.4
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:152 Resp: 98180
Ion Ratio Lower Upper
152 100
115 74.8 44.5 133.3
150 164.2 0.0 353.8





#73

Isopropylbenzene

Concen: 20.481 ug/l

RT: 10.963 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

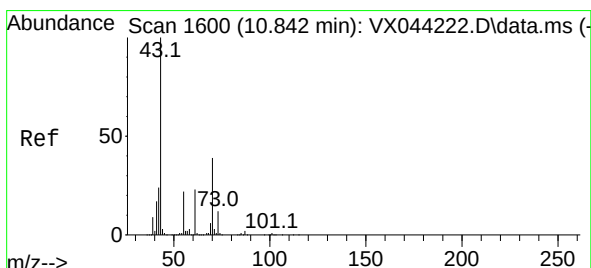
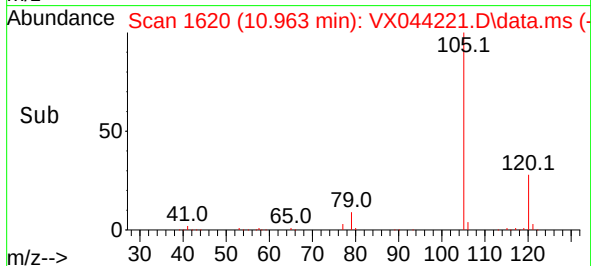
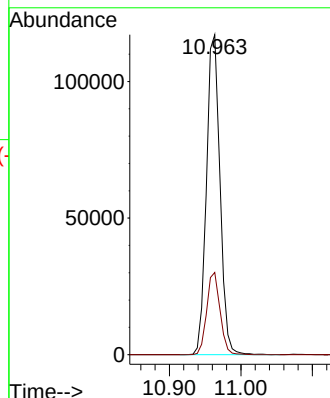
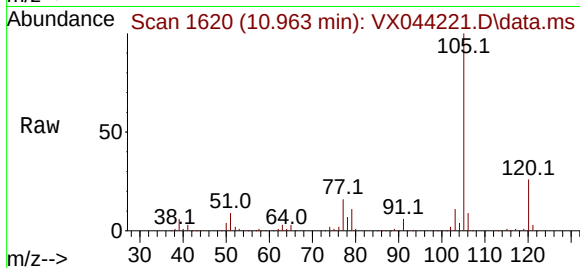
VSTDICC020

Tgt Ion:105 Resp: 153935

Ion Ratio Lower Upper

105 100

120 25.3 13.1 39.3



#74

N-ethyl acetate

Concen: 20.049 ug/l

RT: 10.842 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 69643

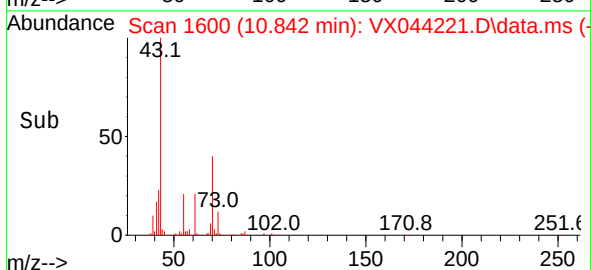
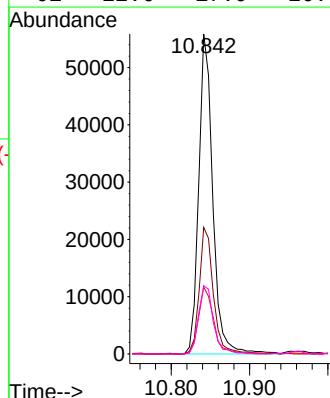
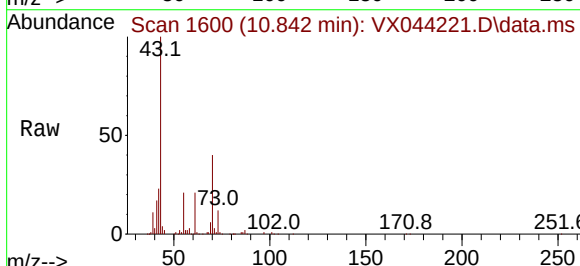
Ion Ratio Lower Upper

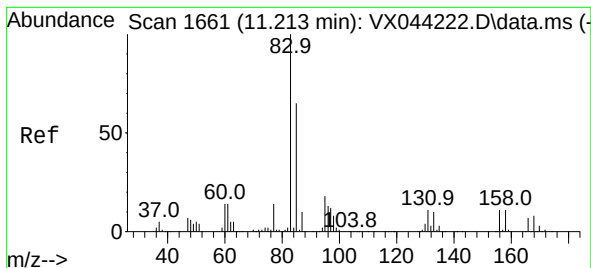
43 100

70 39.8 31.9 47.9

55 22.8 17.9 26.9

61 22.6 17.9 26.9

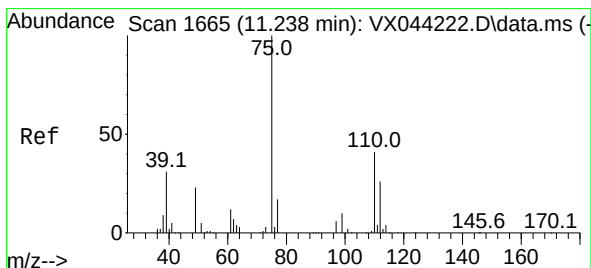
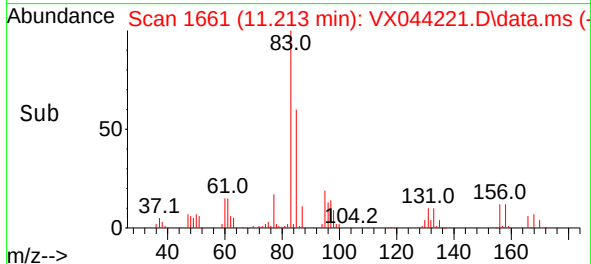
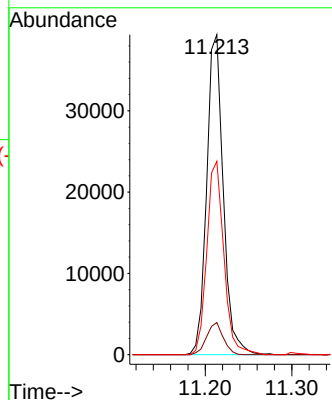
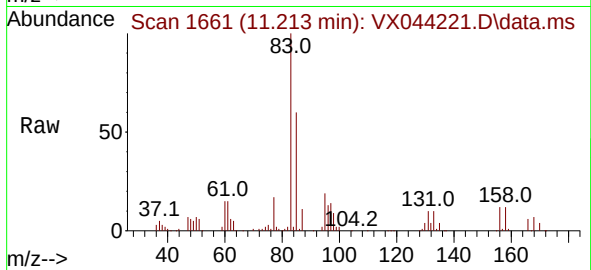




#75
1,1,2,2-Tetrachloroethane
Concen: 20.039 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

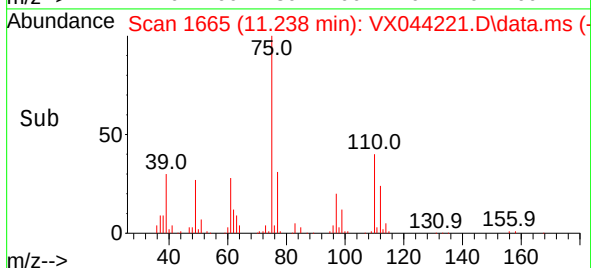
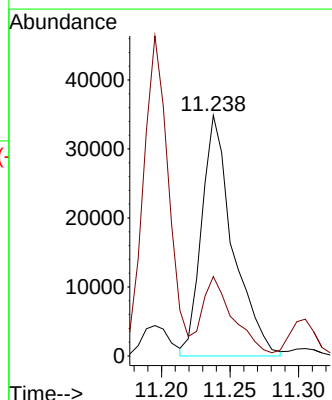
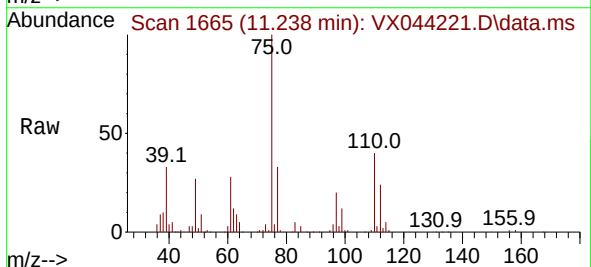
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

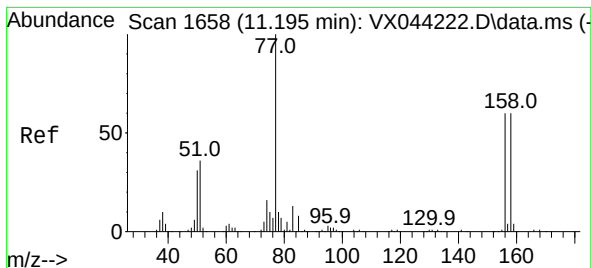
Tgt Ion: 83 Resp: 52312
Ion Ratio Lower Upper
83 100
131 10.1 5.1 15.4
85 62.1 32.5 97.4



#76
1,2,3-Trichloropropane
Concen: 24.859 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 75 Resp: 55384
Ion Ratio Lower Upper
75 100
77 33.2 20.9 62.7





#77

Bromobenzene

Concen: 19.176 ug/l

RT: 11.195 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

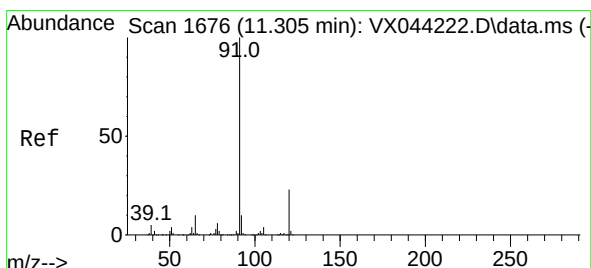
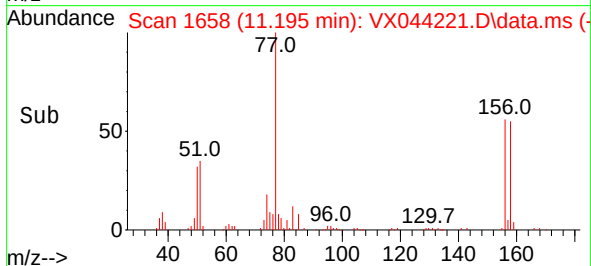
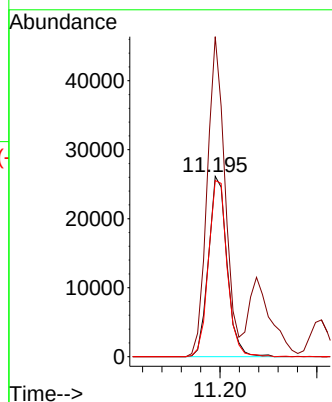
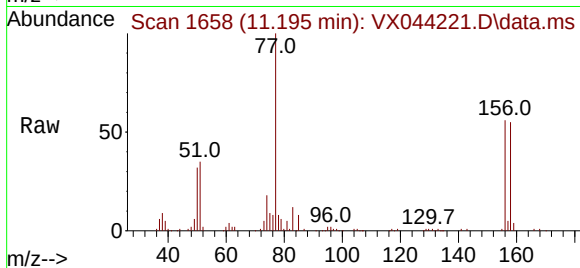
Tgt Ion:156 Resp: 34951

Ion Ratio Lower Upper

156 100

77 169.4 82.6 247.8

158 98.1 48.8 146.4



#78

n-propylbenzene

Concen: 20.419 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. -0.000 min

Lab File: VX044221.D

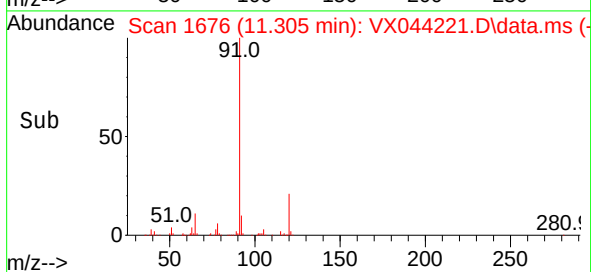
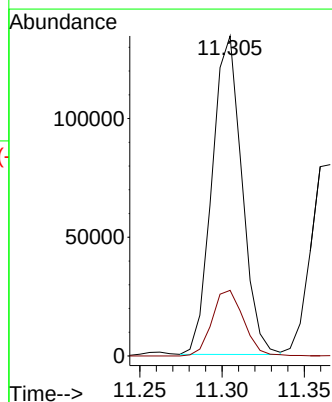
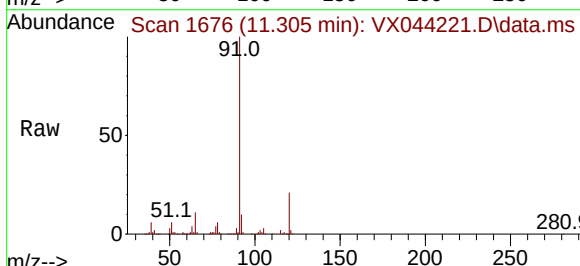
Acq: 11 Dec 2024 11:50

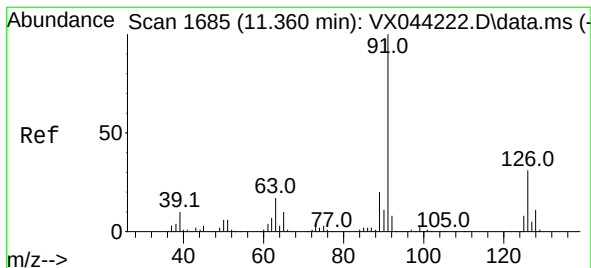
Tgt Ion: 91 Resp: 169622

Ion Ratio Lower Upper

91 100

120 21.8 11.0 33.0





#79

2-Chlorotoluene

Concen: 19.788 ug/l

RT: 11.366 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

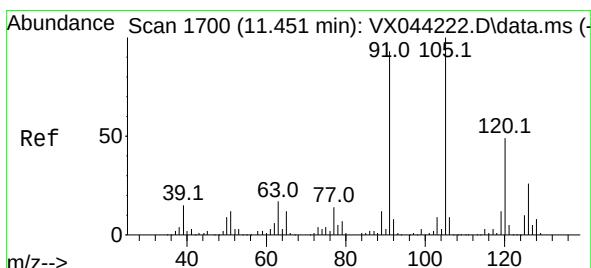
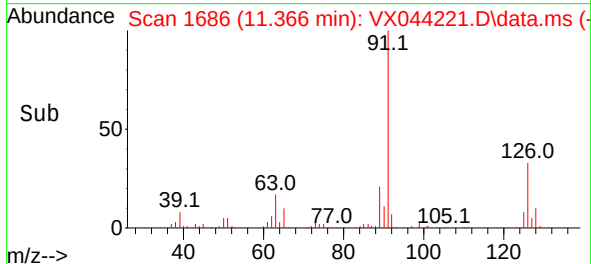
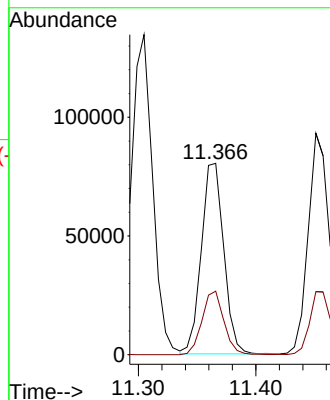
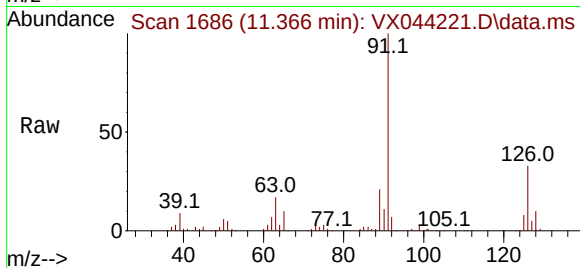
VSTDICC020

Tgt Ion: 91 Resp: 106310

Ion Ratio Lower Upper

91 100

126 32.5 16.4 49.1



#80

1,3,5-Trimethylbenzene

Concen: 20.315 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX044221.D

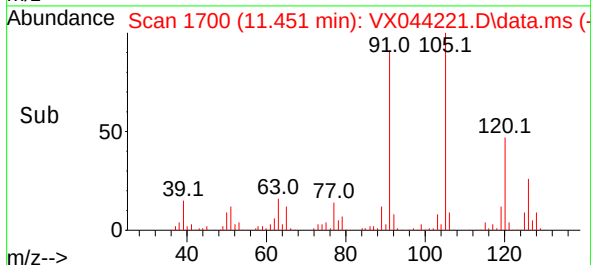
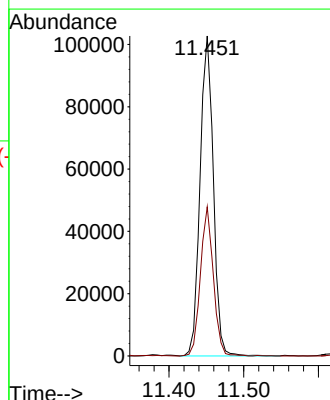
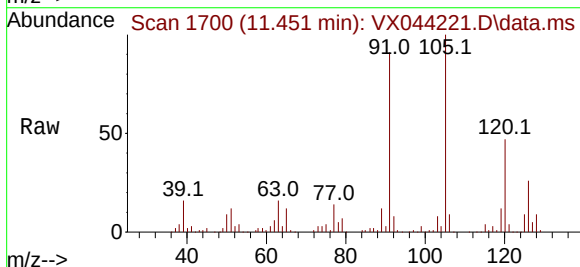
Acq: 11 Dec 2024 11:50

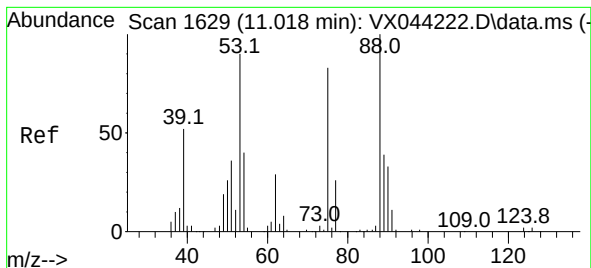
Tgt Ion:105 Resp: 126626

Ion Ratio Lower Upper

105 100

120 45.4 23.8 71.4

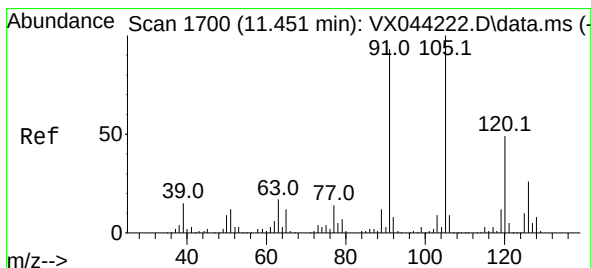
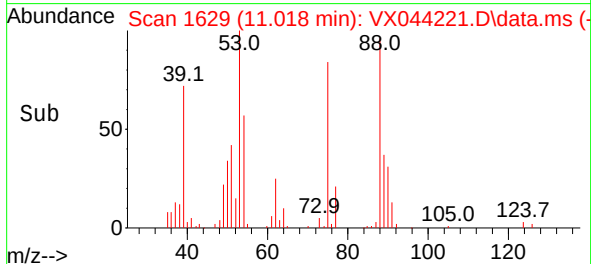
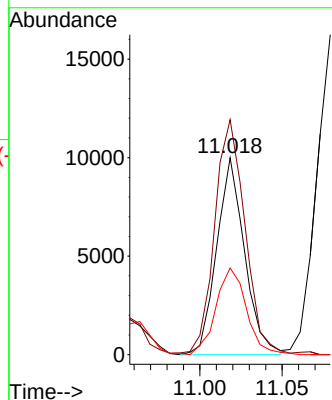
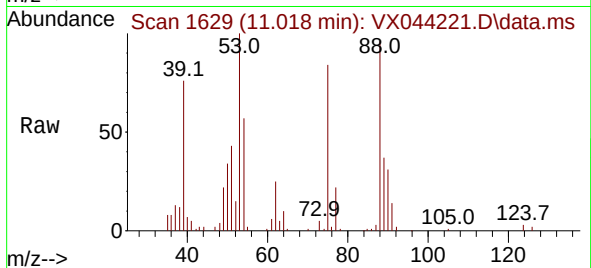




#81
trans-1,4-Dichloro-2-butene
Concen: 19.264 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

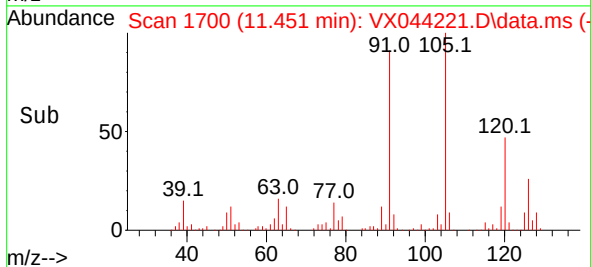
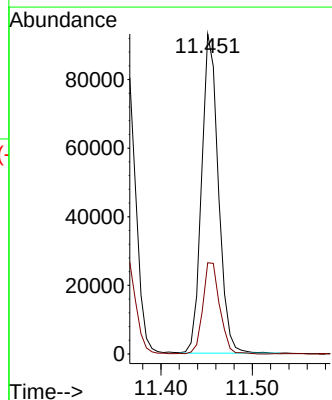
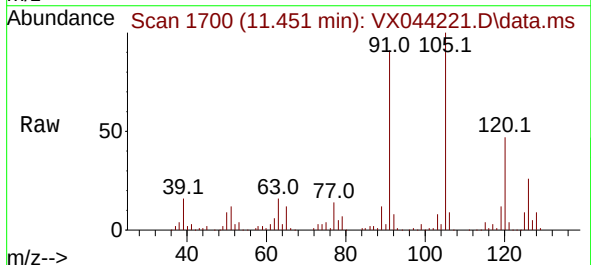
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

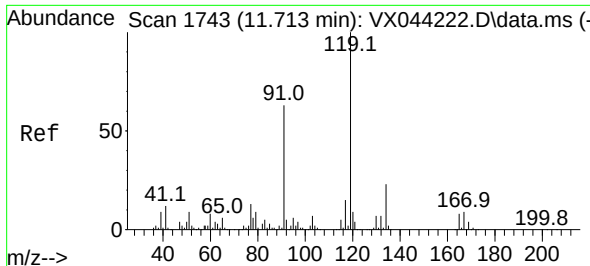
Tgt Ion:	75	Resp:	11784
Ion Ratio	Lower	Upper	
75	100		
53	130.8	93.6	140.4
89	48.1	37.3	55.9



#82
4-Chlorotoluene
Concen: 19.886 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:	91	Resp:	118309
Ion Ratio	Lower	Upper	
91	100		
126	28.9	14.5	43.5

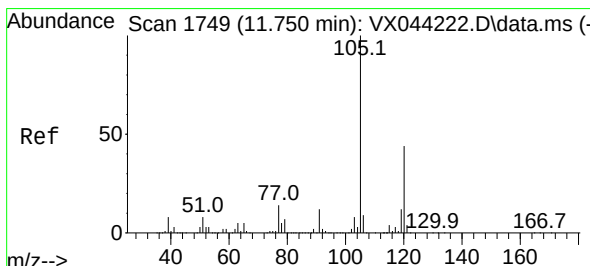
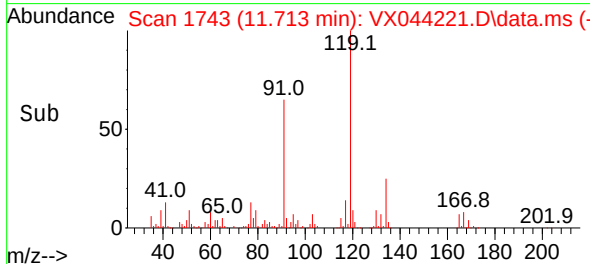
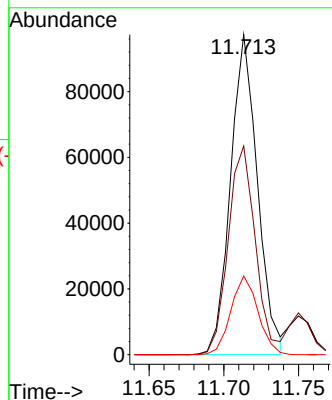
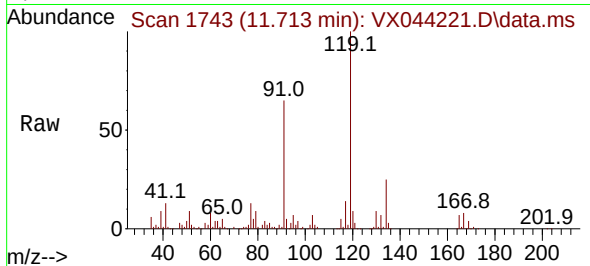




#83
tert-Butylbenzene
Concen: 19.794 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

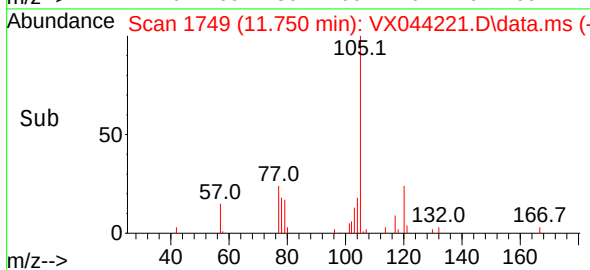
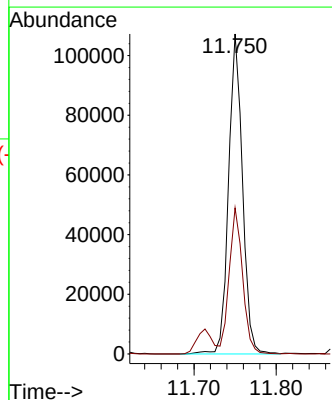
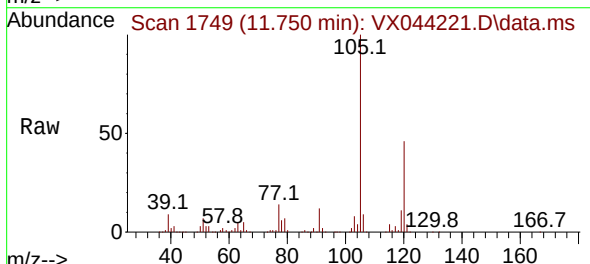
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

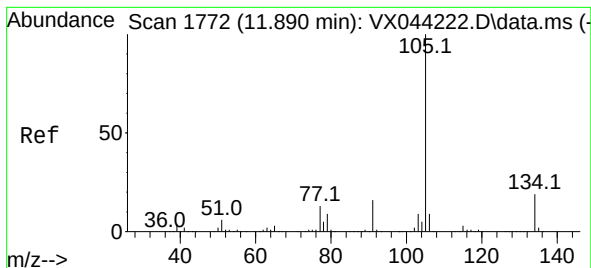
Tgt Ion:119 Resp: 121929
Ion Ratio Lower Upper
119 100
91 66.0 30.9 92.5
134 24.8 11.5 34.4



#84
1,2,4-Trimethylbenzene
Concen: 20.574 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:105 Resp: 125939
Ion Ratio Lower Upper
105 100
120 43.8 21.7 65.1

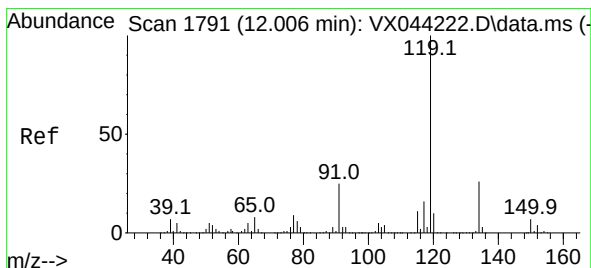
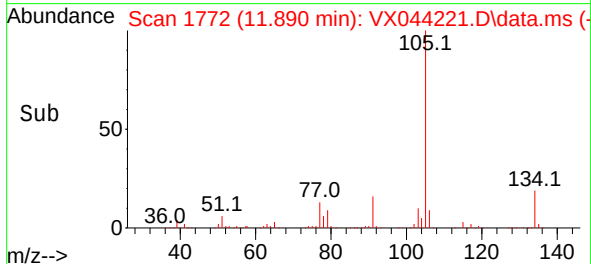
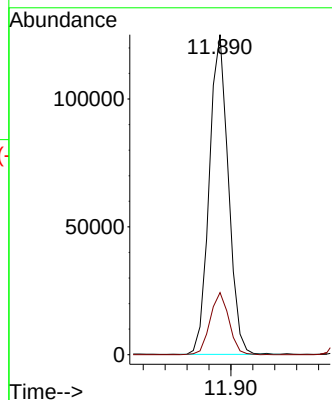
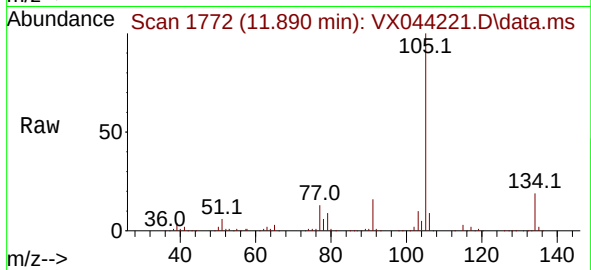




#85
 sec-Butylbenzene
 Concen: 20.165 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. -0.000 min
 Lab File: VX044221.D
 Acq: 11 Dec 2024 11:50

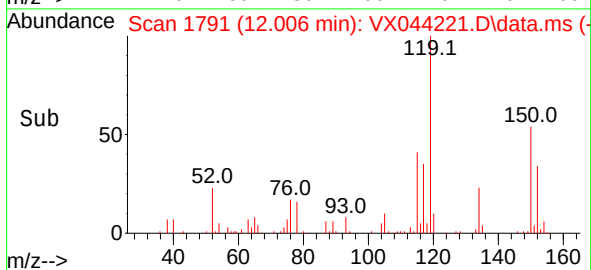
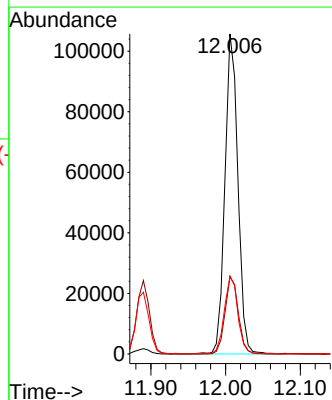
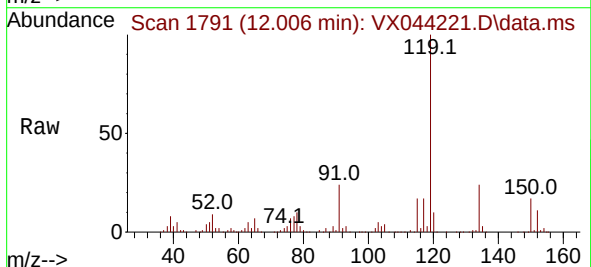
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

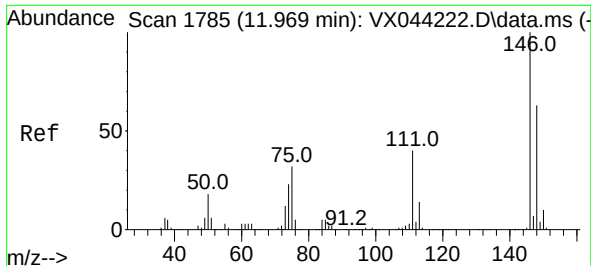
Tgt Ion:105 Resp: 150795
 Ion Ratio Lower Upper
 105 100
 134 19.2 9.8 29.4



#86
 p-Isopropyltoluene
 Concen: 20.532 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. -0.000 min
 Lab File: VX044221.D
 Acq: 11 Dec 2024 11:50

Tgt Ion:119 Resp: 127790
 Ion Ratio Lower Upper
 119 100
 134 24.6 12.8 38.4
 91 25.4 13.0 39.0





#87

1,3-Dichlorobenzene

Concen: 20.228 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

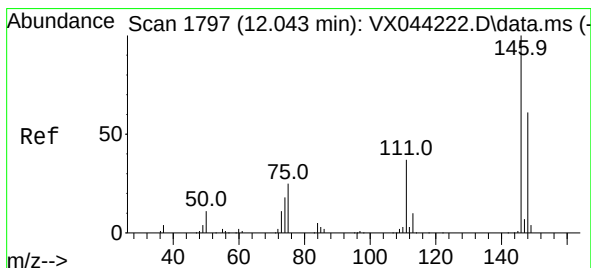
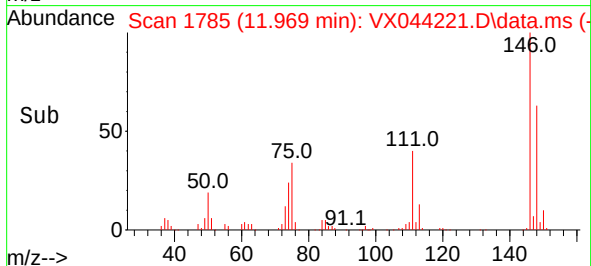
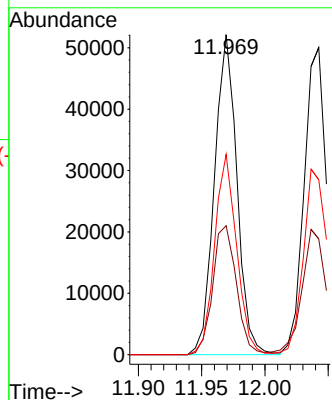
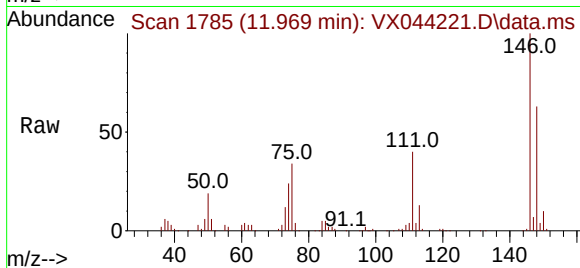
Tgt Ion:146 Resp: 64399

Ion Ratio Lower Upper

146 100

111 42.5 21.4 64.2

148 61.4 31.7 95.1



#88

1,4-Dichlorobenzene

Concen: 19.588 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

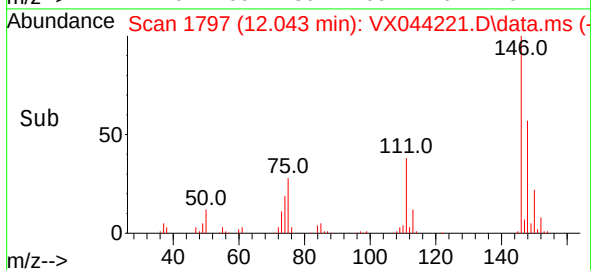
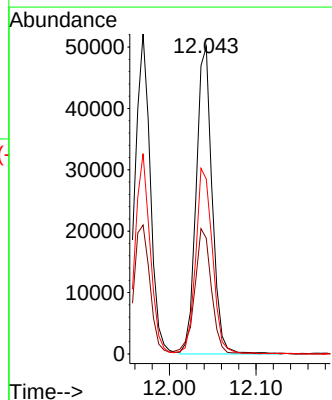
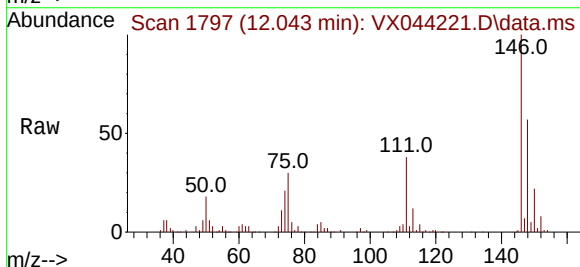
Tgt Ion:146 Resp: 64106

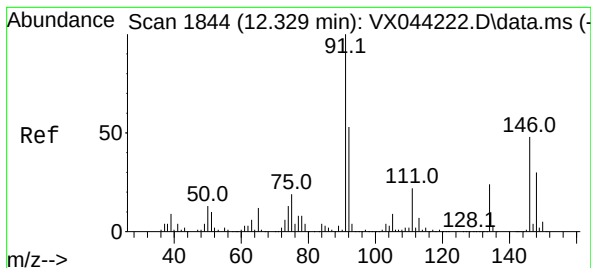
Ion Ratio Lower Upper

146 100

111 42.7 21.0 63.0

148 63.2 32.3 96.8





#89

n-Butylbenzene

Concen: 19.950 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

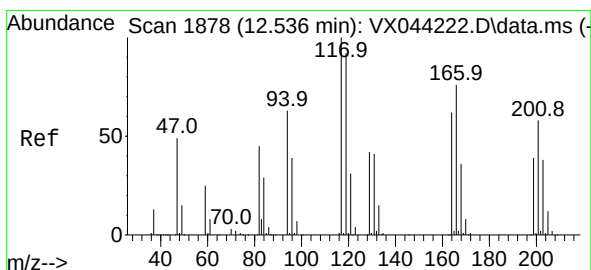
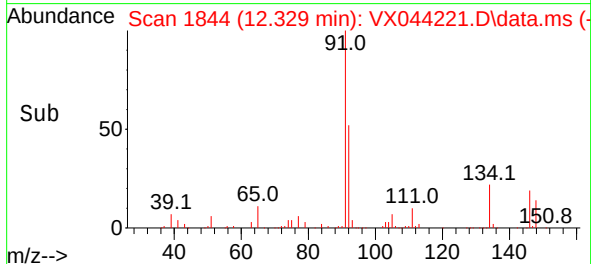
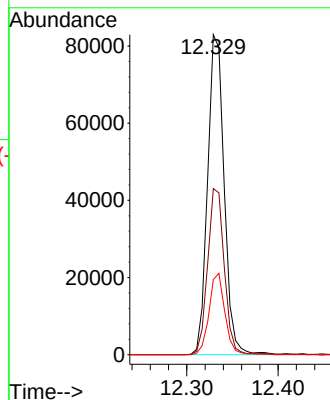
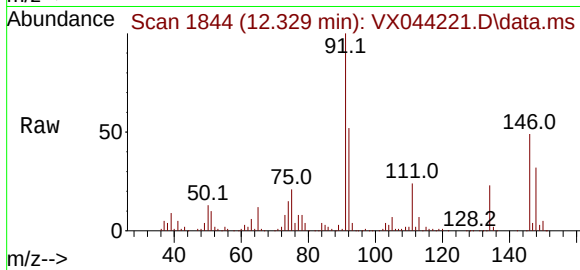
Tgt Ion: 91 Resp: 104410

Ion Ratio Lower Upper

91 100

92 52.4 26.6 79.7

134 24.4 12.6 37.8



#90

Hexachloroethane

Concen: 17.543 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX044221.D

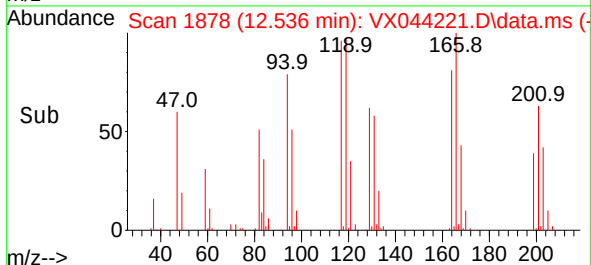
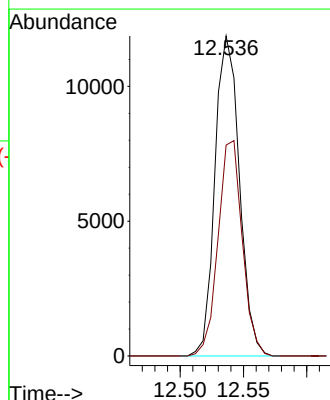
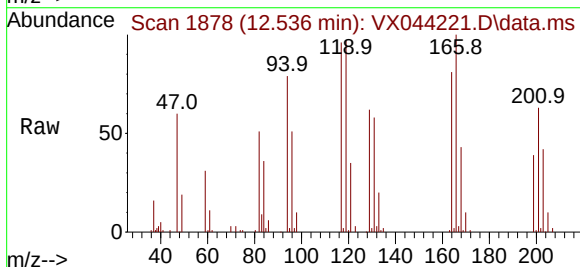
Acq: 11 Dec 2024 11:50

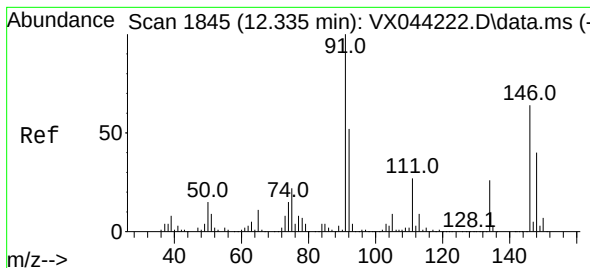
Tgt Ion: 117 Resp: 15939

Ion Ratio Lower Upper

117 100

201 66.8 31.4 94.2





#91

1,2-Dichlorobenzene

Concen: 19.817 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

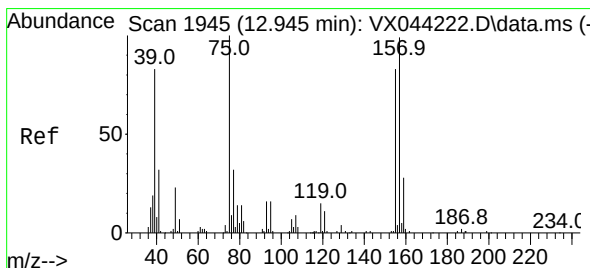
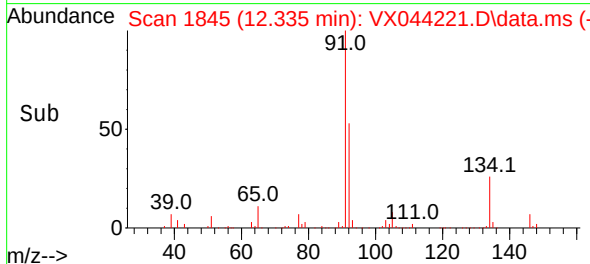
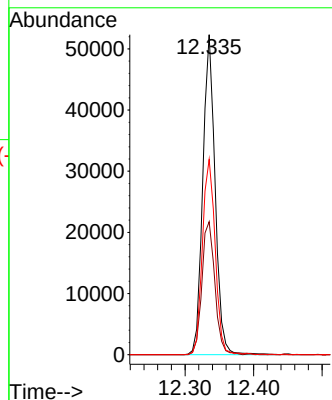
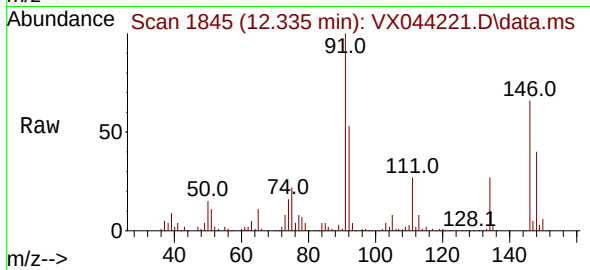
Tgt Ion:146 Resp: 65511

Ion Ratio Lower Upper

146 100

111 43.8 21.4 64.3

148 63.5 31.6 95.0



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.683 ug/l

RT: 12.939 min Scan# 1944

Delta R.T. -0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

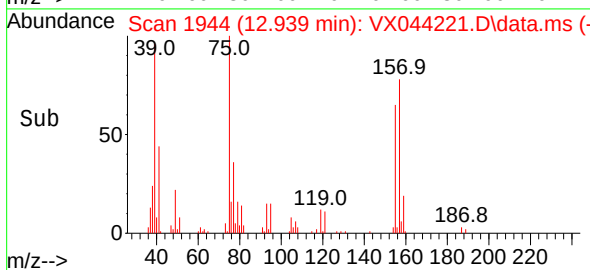
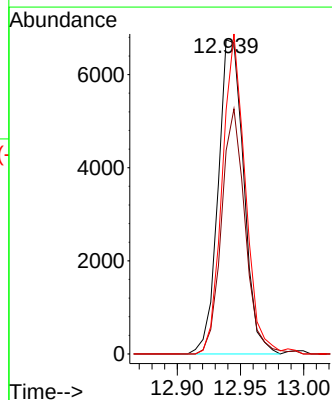
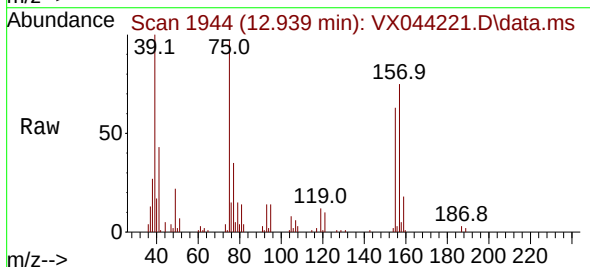
Tgt Ion: 75 Resp: 9468

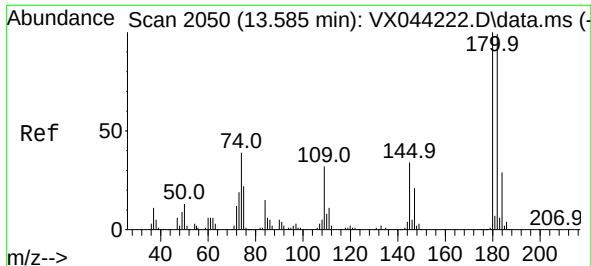
Ion Ratio Lower Upper

75 100

155 72.1 38.1 114.3

157 92.2 47.2 141.6





#93

1,2,4-Trichlorobenzene

Concen: 19.313 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

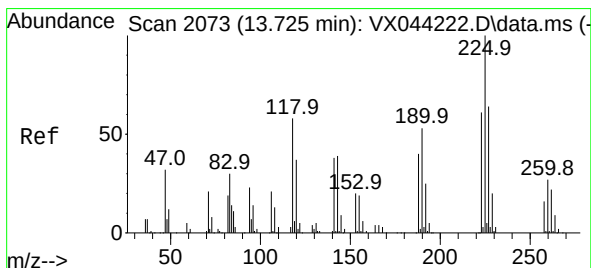
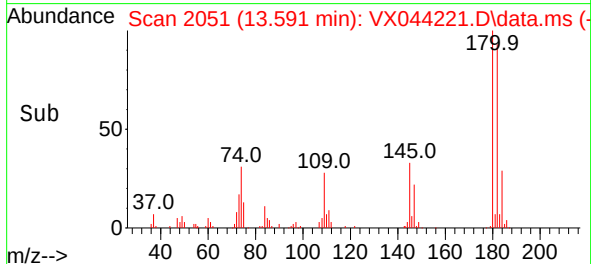
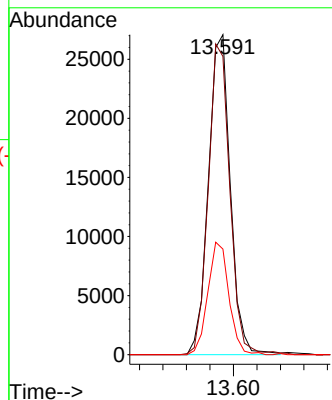
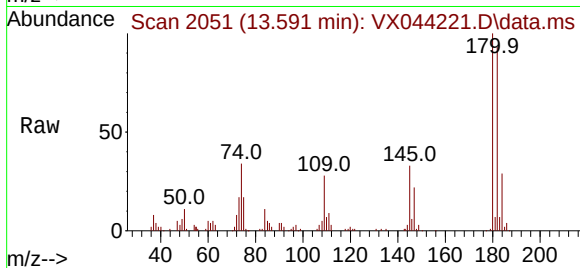
Tgt Ion:180 Resp: 35001

Ion Ratio Lower Upper

180 100

182 95.7 48.0 144.2

145 33.9 16.6 49.7



#94

Hexachlorobutadiene

Concen: 19.774 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

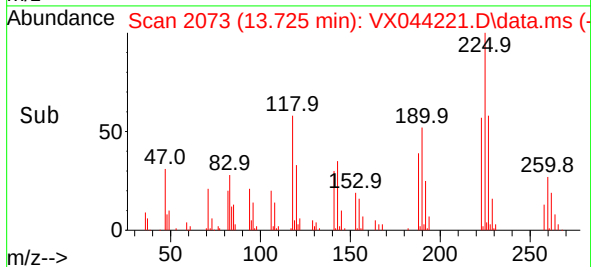
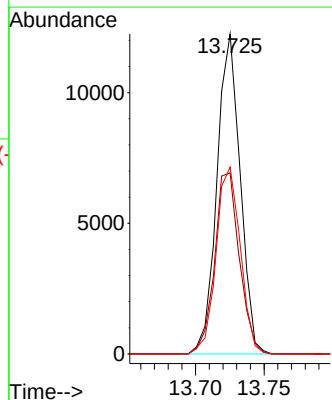
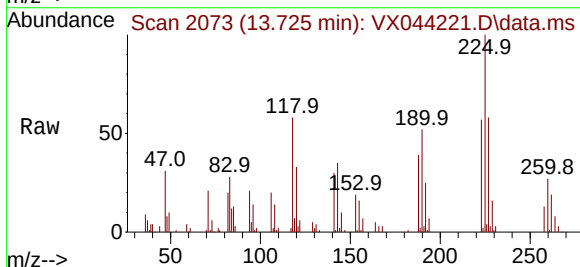
Tgt Ion:225 Resp: 14415

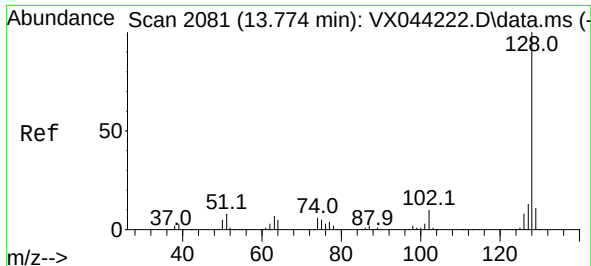
Ion Ratio Lower Upper

225 100

223 60.5 30.8 92.4

227 60.9 32.1 96.3





#95

Naphthalene

Concen: 20.146 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

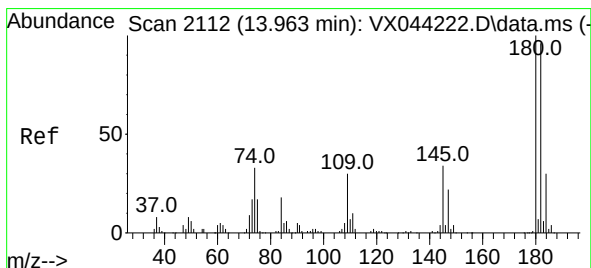
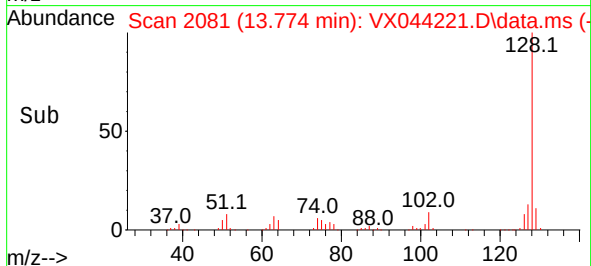
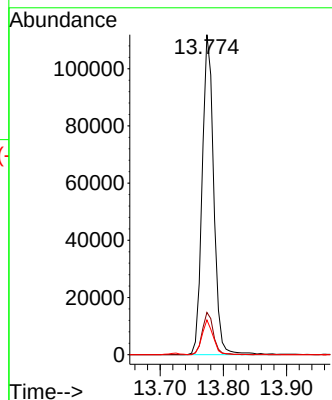
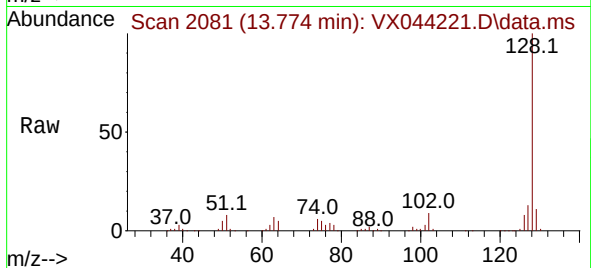
Tgt Ion:128 Resp: 142515

Ion Ratio Lower Upper

128 100

127 12.8 10.5 15.7

129 10.4 9.0 13.4



#96

1,2,3-Trichlorobenzene

Concen: 20.101 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. -0.000 min

Lab File: VX044221.D

Acq: 11 Dec 2024 11:50

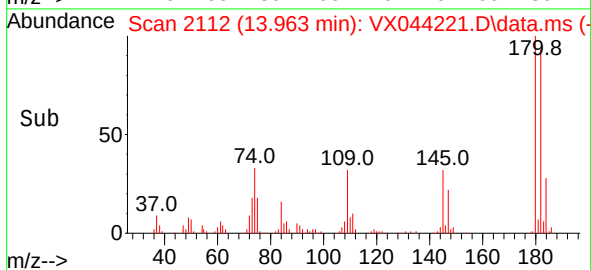
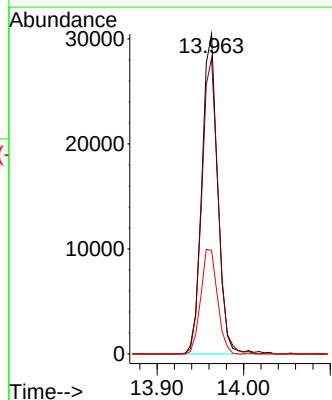
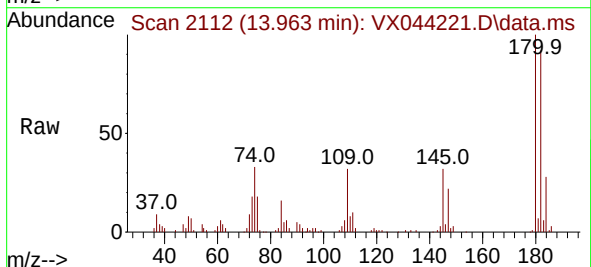
Tgt Ion:180 Resp: 38639

Ion Ratio Lower Upper

180 100

182 94.7 48.0 144.0

145 34.3 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044222.D
 Acq On : 11 Dec 2024 12:14
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Quant Time: Dec 12 04:15:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:11:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	125713	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	233488	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	205196	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	95227	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.952	65	115815	52.544	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 105.080%	
35) Dibromofluoromethane	5.385	113	85656	52.968	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 105.940%	
50) Toluene-d8	8.647	98	292199	53.559	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 107.120%	
62) 4-Bromofluorobenzene	11.079	95	103178	54.123	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 108.240%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.167	85	99052	50.957	ug/l	100
3) Chloromethane	1.295	50	94981	51.097	ug/l	100
4) Vinyl Chloride	1.374	62	98852	51.045	ug/l	100
5) Bromomethane	1.593	94	69250	50.405	ug/l	100
6) Chloroethane	1.666	64	66862	55.448	ug/l	100
7) Trichlorofluoromethane	1.868	101	193676	51.086	ug/l	100
8) Diethyl Ether	2.136	74	64542	49.875	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	77275	50.371	ug/l	100
10) Methyl Iodide	2.441	142	106509	52.678	ug/l	100
11) Tert butyl alcohol	2.995	59	80988	261.121	ug/l	98
12) 1,1-Dichloroethene	2.307	96	74884	53.143	ug/l	100
13) Acrolein	2.239	56	116171	258.347	ug/l	100
14) Allyl chloride	2.654	41	126925	54.079	ug/l	100
15) Acrylonitrile	3.069	53	225330	261.859	ug/l	100
16) Acetone	2.392	43	239661	266.704	ug/l	100
17) Carbon Disulfide	2.502	76	144624	53.994	ug/l	100
18) Methyl Acetate	2.709	43	119808	51.710	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	289735	52.691	ug/l	100
20) Methylene Chloride	2.782	84	86593	51.305	ug/l	100
21) trans-1,2-Dichloroethene	3.081	96	77834	51.974	ug/l	100
22) Diisopropyl ether	3.764	45	273039	51.662	ug/l	100
23) Vinyl Acetate	3.721	43	1202044	279.754	ug/l	100
24) 1,1-Dichloroethane	3.605	63	156412	53.093	ug/l	100
25) 2-Butanone	4.562	43	344663	269.797	ug/l	100
26) 2,2-Dichloropropane	4.465	77	131428	54.914	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	97013	51.007	ug/l	100
28) Bromochloromethane	4.898	49	74477	51.555	ug/l	100
29) Tetrahydrofuran	5.007	42	212103	258.669	ug/l	100
30) Chloroform	5.087	83	168864	51.017	ug/l	100
31) Cyclohexane	5.465	56	122841	51.637	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	147834	53.806	ug/l	100
36) 1,1-Dichloropropene	5.690	75	103760	49.638	ug/l	100
37) Ethyl Acetate	4.721	43	135753	52.537	ug/l	100
38) Carbon Tetrachloride	5.672	117	117076	52.023	ug/l	100
39) Methylcyclohexane	7.373	83	129697	51.901	ug/l	100
40) Benzene	6.031	78	329154	51.863	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044222.D
 Acq On : 11 Dec 2024 12:14
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Quant Time: Dec 12 04:15:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:11:59 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	70427	51.329	ug/l	100
42) 1,2-Dichloroethane	6.086	62	136309	52.138	ug/l	100
43) Isopropyl Acetate	6.342	43	213891	52.961	ug/l	100
44) Trichloroethene	7.123	130	81542	51.521	ug/l	100
45) 1,2-Dichloropropane	7.428	63	83376	51.420	ug/l	100
46) Dibromomethane	7.580	93	66786	53.092	ug/l	100
47) Bromodichloromethane	7.824	83	118634	54.607	ug/l	100
48) Methyl methacrylate	7.696	41	103726	52.909	ug/l	100
49) 1,4-Dioxane	7.671	88	28266	843.658	ug/l #	77
51) 4-Methyl-2-Pentanone	8.574	43	688666	265.203	ug/l	100
52) Toluene	8.714	92	204738	51.370	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	120007	51.362	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	132286	55.923	ug/l	100
55) 1,1,2-Trichloroethane	9.153	97	83488	52.729	ug/l	100
56) Ethyl methacrylate	9.116	69	134770	53.917	ug/l	100
57) 1,3-Dichloropropane	9.305	76	143044	51.904	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	342592	271.745	ug/l	100
59) 2-Hexanone	9.433	43	512906	272.881	ug/l	100
60) Dibromochloromethane	9.519	129	86352	51.400	ug/l	100
61) 1,2-Dibromoethane	9.604	107	86150	53.454	ug/l	100
64) Tetrachloroethene	9.269	164	65888	48.379	ug/l	100
65) Chlorobenzene	10.080	112	223269	50.779	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	76867	54.396	ug/l	100
67) Ethyl Benzene	10.189	91	395430	52.050	ug/l	100
68) m/p-Xylenes	10.299	106	290181	104.094	ug/l	100
69) o-Xylene	10.640	106	144247	51.141	ug/l	100
70) Styrene	10.653	104	238379	52.719	ug/l	100
71) Bromoform	10.799	173	50667	51.158	ug/l #	100
73) Isopropylbenzene	10.957	105	372519	51.100	ug/l	100
74) N-amyl acetate	10.842	43	182491	54.166	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.213	83	127193	50.233	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	139805	64.698	ug/l	85
77) Bromobenzene	11.195	156	89687	50.734	ug/l	100
78) n-propylbenzene	11.305	91	428741	53.211	ug/l	100
79) 2-Chlorotoluene	11.360	91	263849	50.634	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	314986	52.102	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	35119	47.628	ug/l	100
82) 4-Chlorotoluene	11.451	91	296520	51.387	ug/l	100
83) tert-Butylbenzene	11.713	119	310320	51.940	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	313338	52.776	ug/l	100
85) sec-Butylbenzene	11.890	105	379552	52.329	ug/l	100
86) p-Isopropyltoluene	12.006	119	318721	52.796	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	160223	51.887	ug/l	100
88) 1,4-Dichlorobenzene	12.043	146	159258	50.171	ug/l	100
89) n-Butylbenzene	12.329	91	270840	53.354	ug/l	100
90) Hexachloroethane	12.536	117	48303	54.813	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	164342	51.256	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.945	75	26027	52.951	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	93173	53.005	ug/l	100
94) Hexachlorobutadiene	13.725	225	35172	49.744	ug/l	100
95) Naphthalene	13.774	128	365234	53.230	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	97000	52.027	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044222.D
Acq On : 11 Dec 2024 12:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Dec 12 04:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

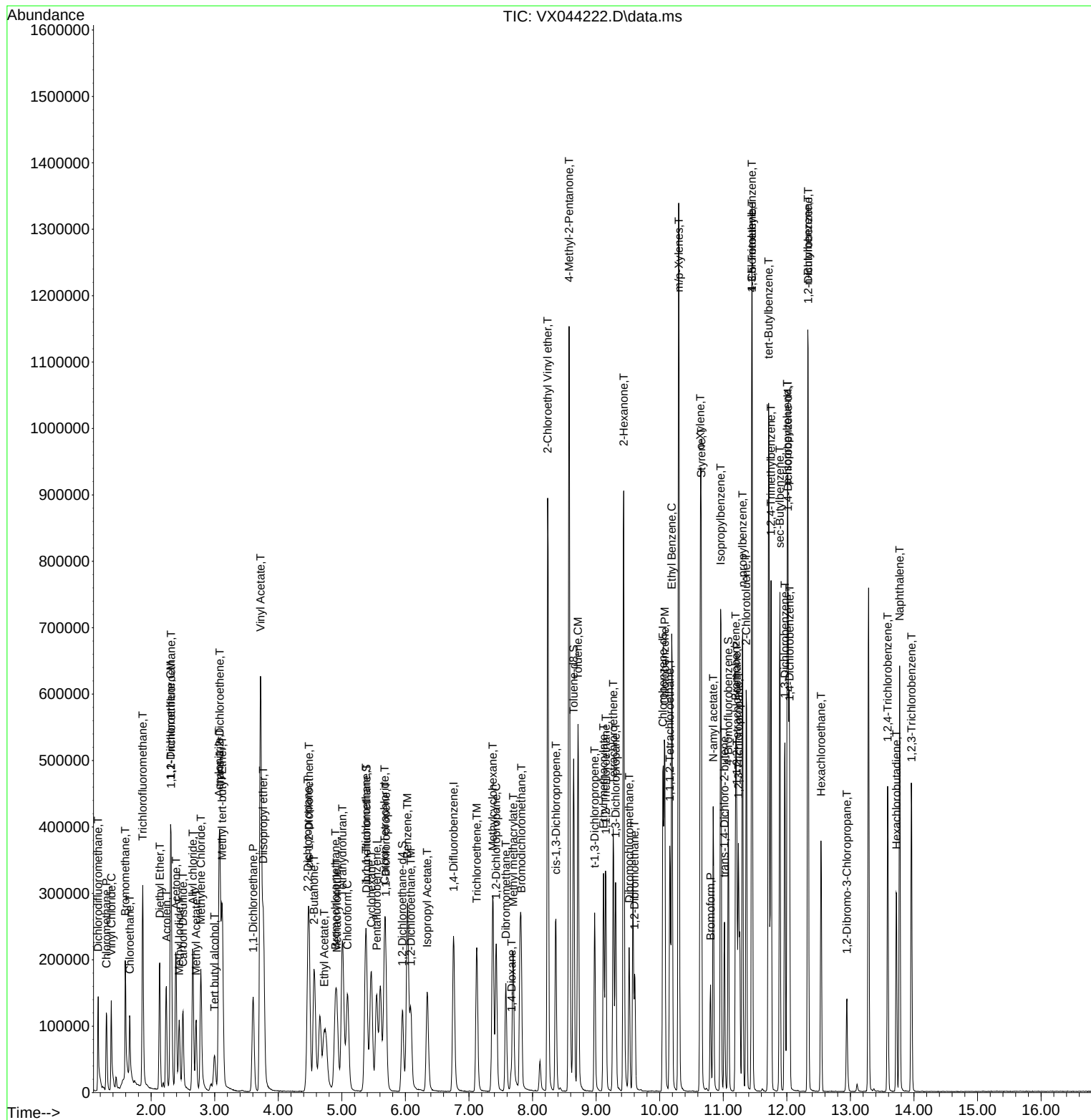
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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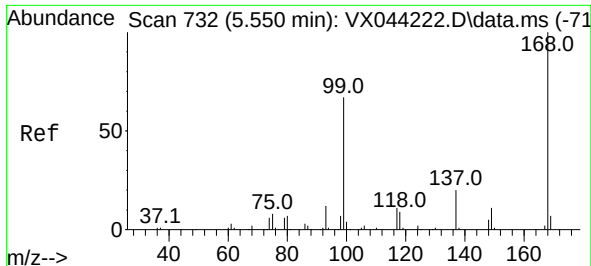
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\  
Data File : VX044222.D  
Acq On    : 11 Dec 2024   12:14  
Operator  : JC/MD  
Sample    : VSTDICCC050  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 6      Sample Multiplier: 1
```

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Dec 12 04:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSV0A_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

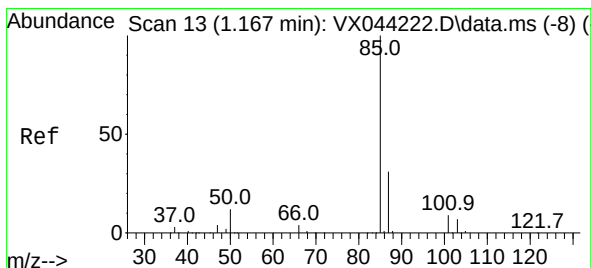
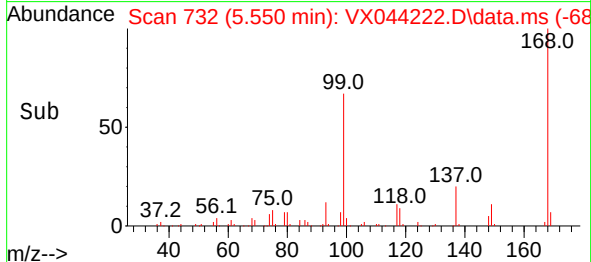
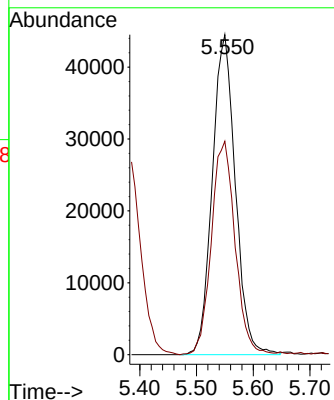
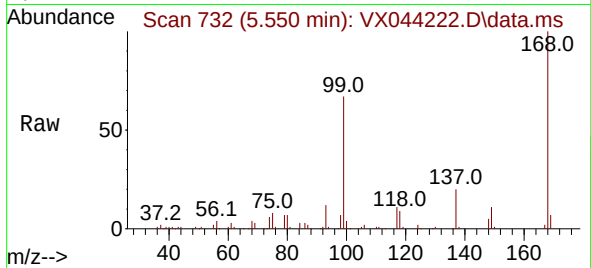




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

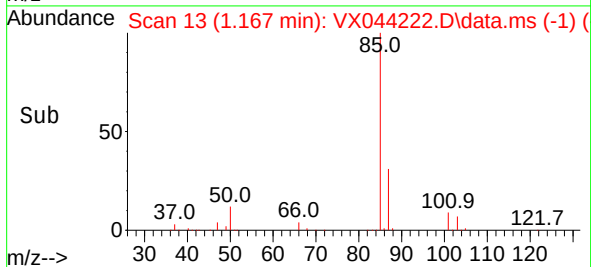
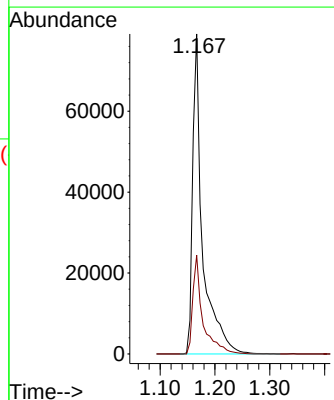
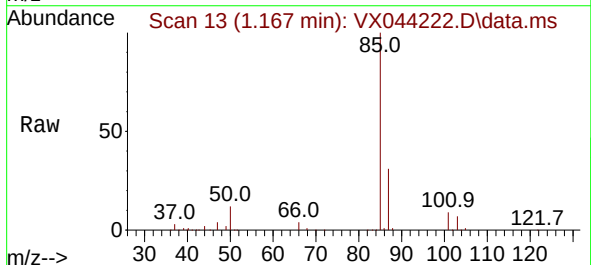
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

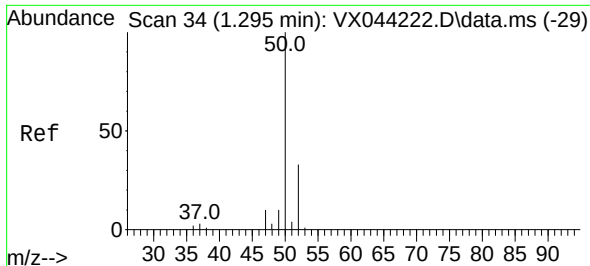
Tgt Ion:168 Resp: 125713
Ion Ratio Lower Upper
168 100
99 66.7 53.4 80.0



#2
Dichlorodifluoromethane
Concen: 50.957 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 85 Resp: 99052
Ion Ratio Lower Upper
85 100
87 30.9 15.4 46.4

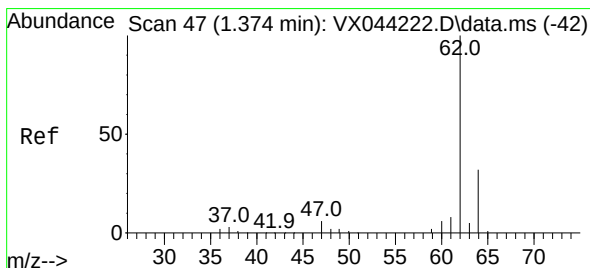
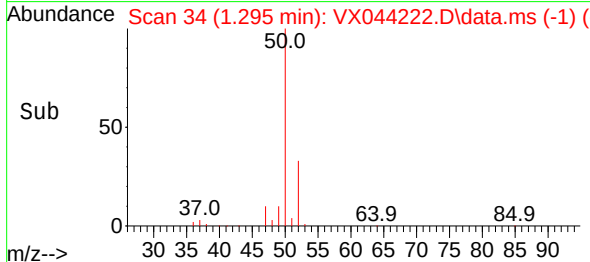
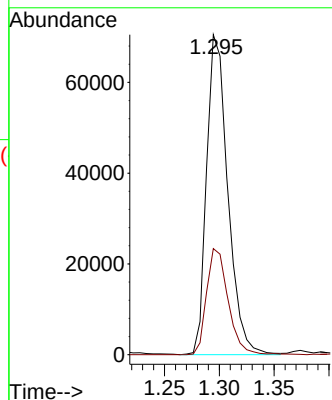
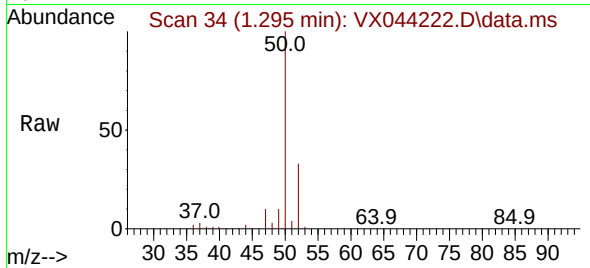




#3
Chloromethane
Concen: 51.097 ug/l
RT: 1.295 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

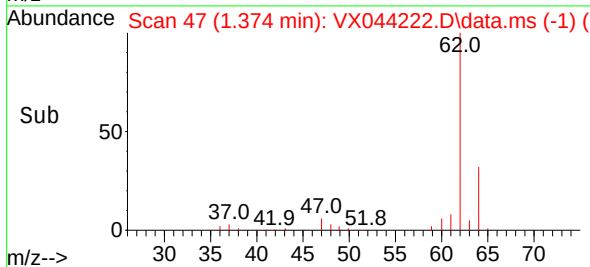
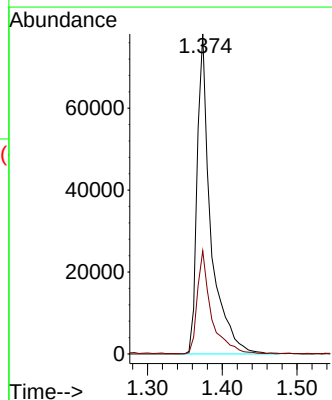
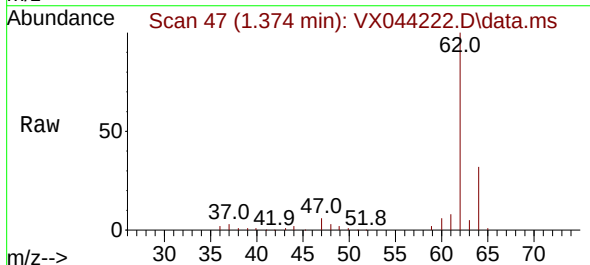
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

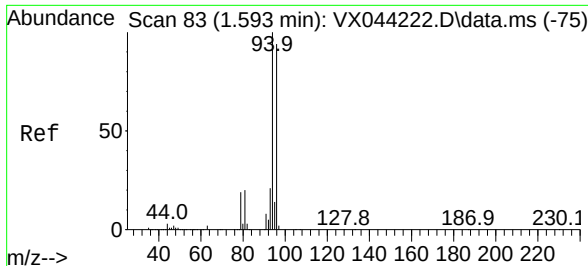
Tgt Ion: 50 Resp: 94981
Ion Ratio Lower Upper
50 100
52 33.1 26.5 39.7



#4
Vinyl Chloride
Concen: 51.045 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 62 Resp: 98852
Ion Ratio Lower Upper
62 100
64 32.1 25.7 38.5

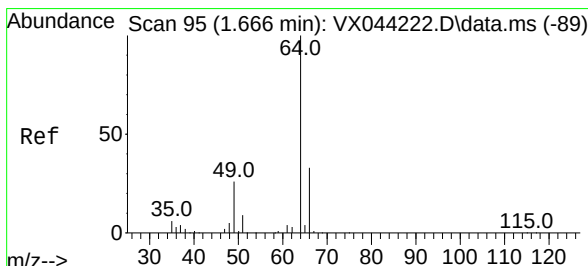
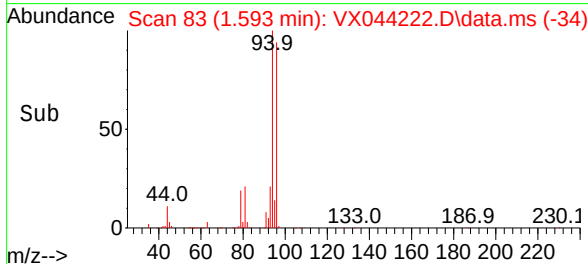
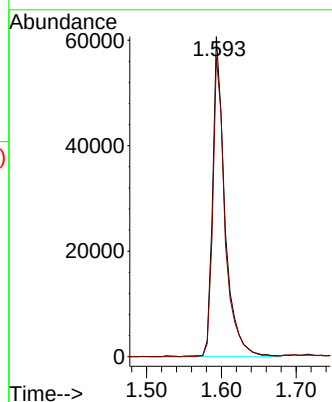
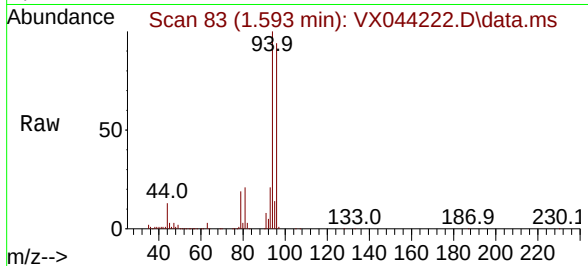




#5
Bromomethane
Concen: 50.405 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

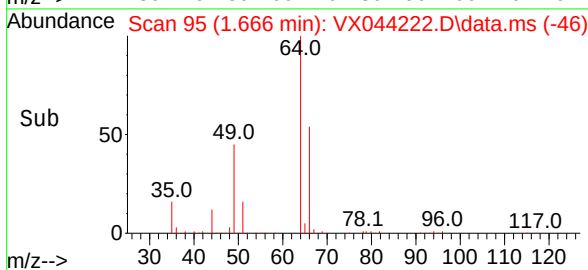
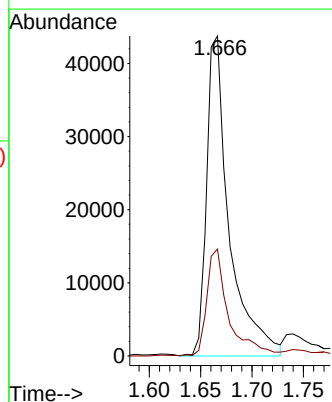
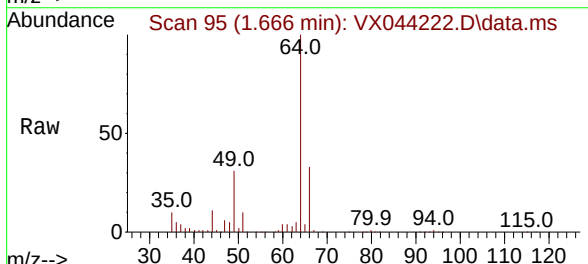
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

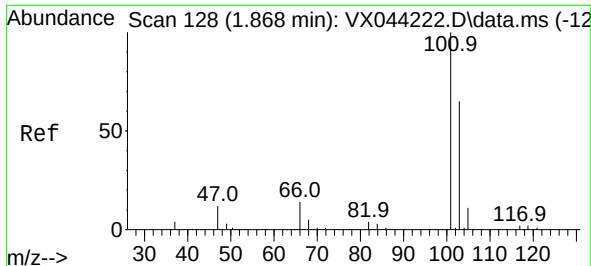
Tgt Ion: 94 Resp: 69250
Ion Ratio Lower Upper
94 100
96 93.6 74.9 112.3



#6
Chloroethane
Concen: 55.448 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 64 Resp: 66862
Ion Ratio Lower Upper
64 100
66 33.2 26.6 39.8

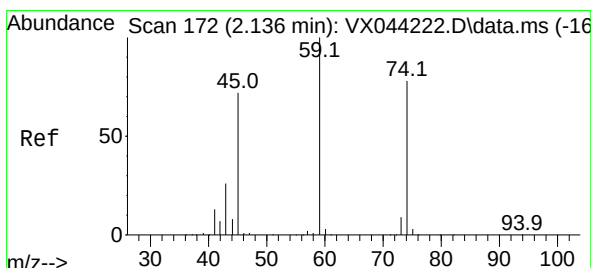
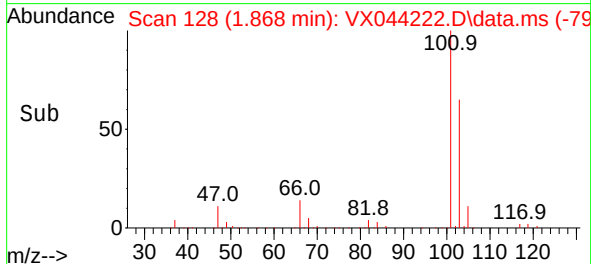
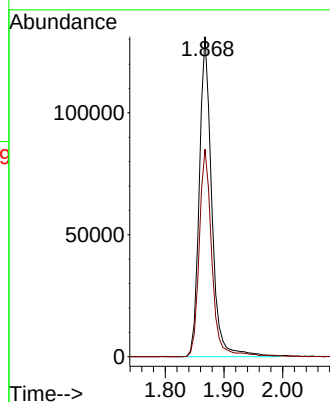
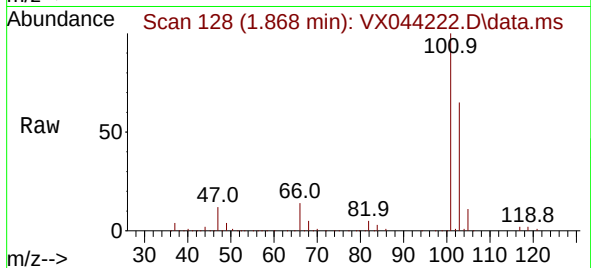




#7
 Trichlorofluoromethane
 Concen: 51.086 ug/l
 RT: 1.868 min Scan# 128
 Delta R.T. 0.000 min
 Lab File: VX044222.D
 Acq: 11 Dec 2024 12:14

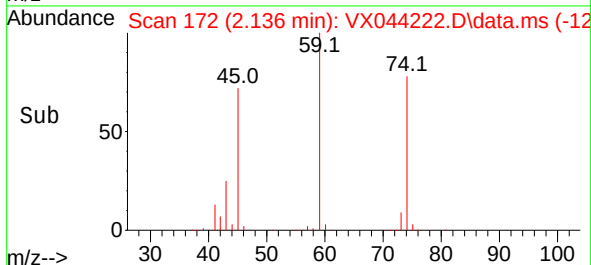
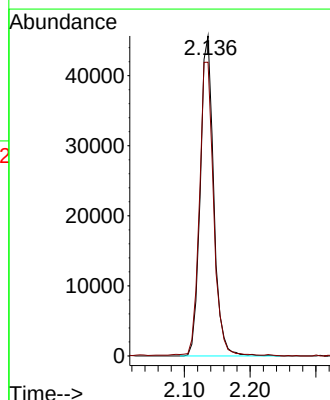
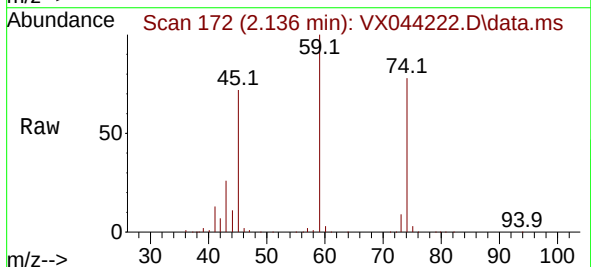
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

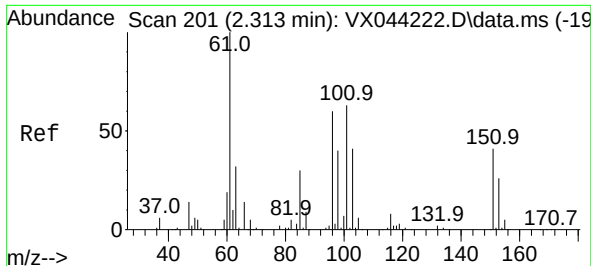
Tgt Ion:101 Resp: 193676
 Ion Ratio Lower Upper
 101 100
 103 64.8 51.8 77.8



#8
 Diethyl Ether
 Concen: 49.875 ug/l
 RT: 2.136 min Scan# 172
 Delta R.T. 0.000 min
 Lab File: VX044222.D
 Acq: 11 Dec 2024 12:14

Tgt Ion: 74 Resp: 64542
 Ion Ratio Lower Upper
 74 100
 45 96.7 48.4 145.0

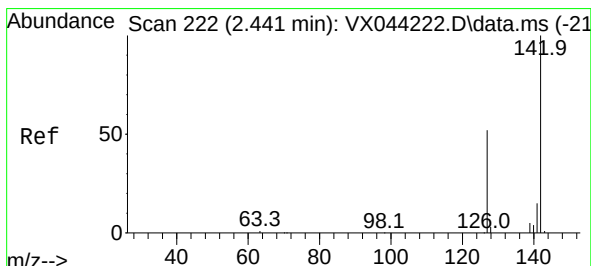
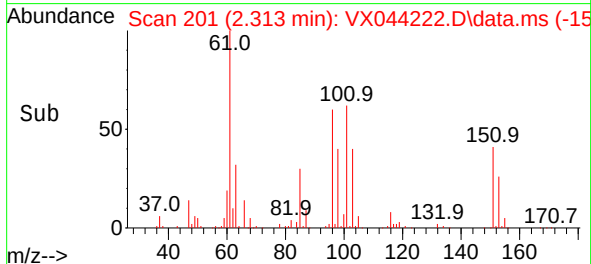
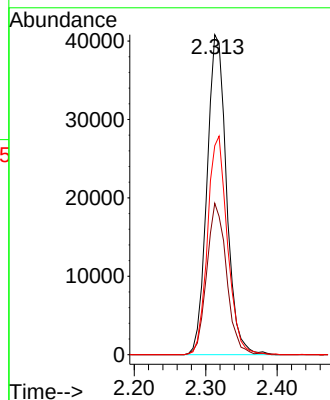
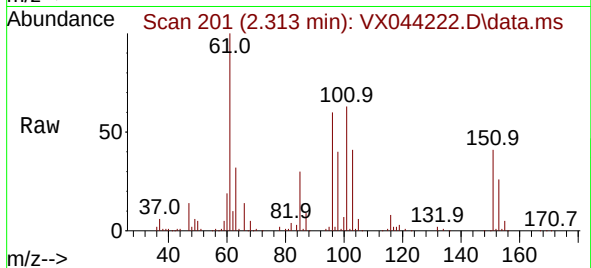




#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.371 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

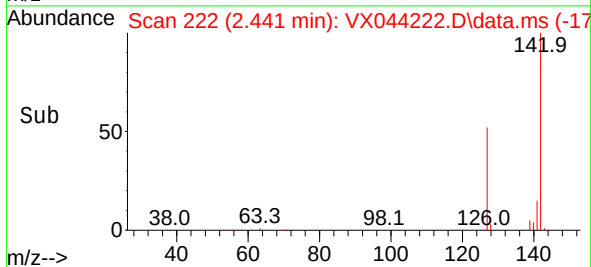
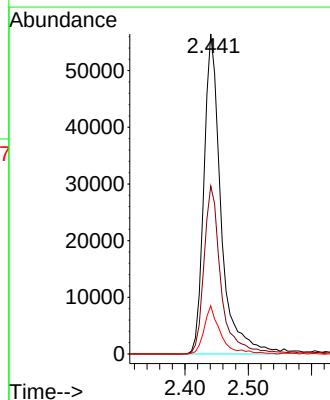
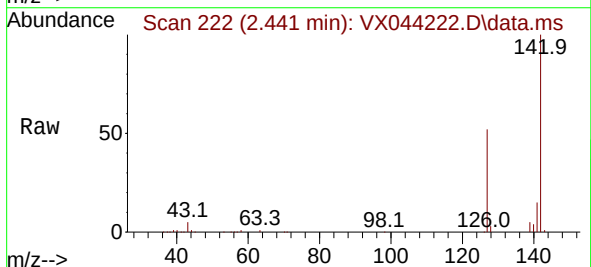
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

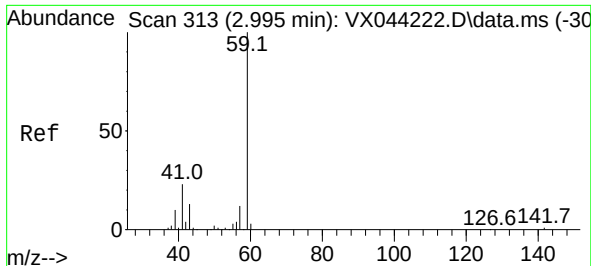
Tgt Ion:101 Resp: 77275
Ion Ratio Lower Upper
101 100
85 48.1 38.5 57.7
151 69.7 55.8 83.6



#10
Methyl Iodide
Concen: 52.678 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:142 Resp: 106509
Ion Ratio Lower Upper
142 100
127 52.3 41.8 62.8
141 14.4 11.5 17.3

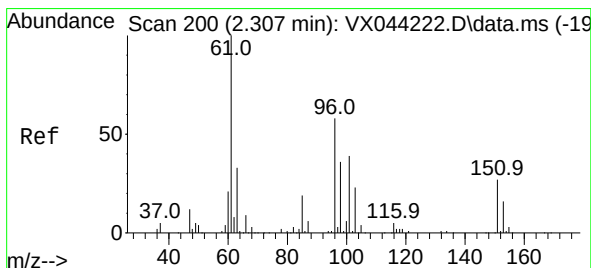
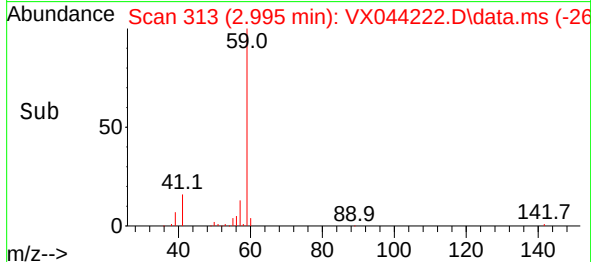
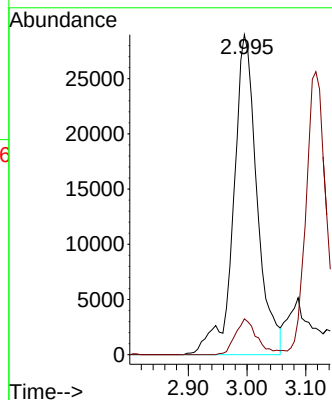
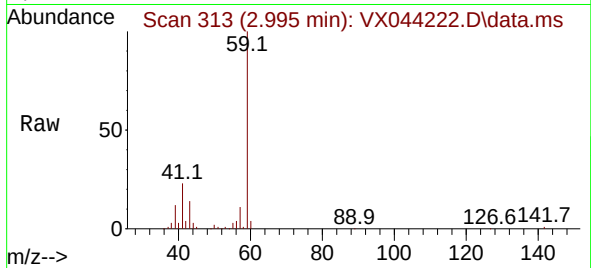




#11
Tert butyl alcohol
Concen: 261.121 ug/l
RT: 2.995 min Scan# 313
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

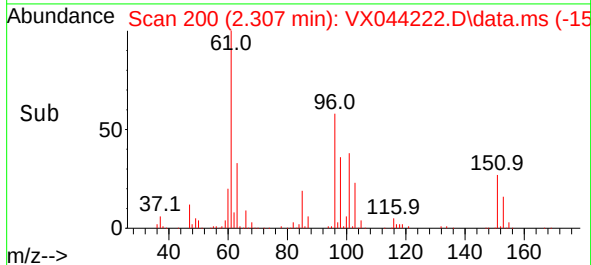
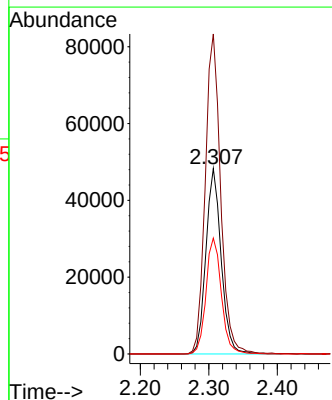
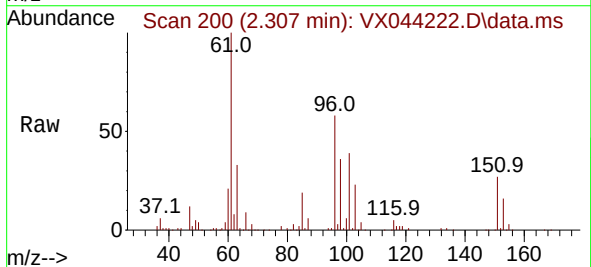
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

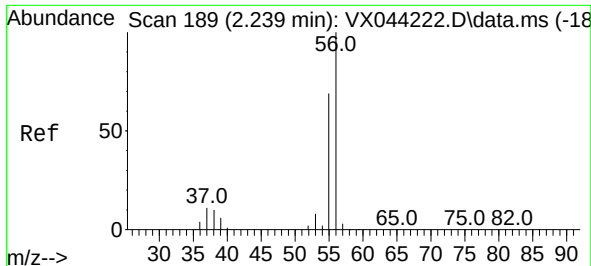
Tgt Ion: 59 Resp: 80988
Ion Ratio Lower Upper
59 100
57 10.3 8.8 13.2



#12
1,1-Dichloroethene
Concen: 53.143 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 96 Resp: 74884
Ion Ratio Lower Upper
96 100
61 172.5 138.0 207.0
98 62.5 50.0 75.0

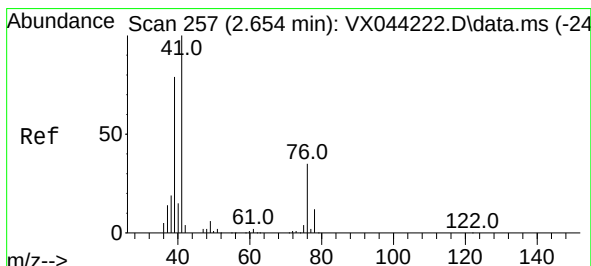
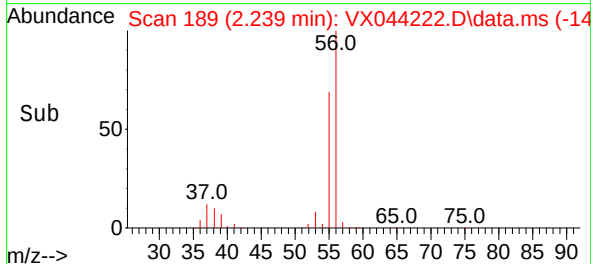
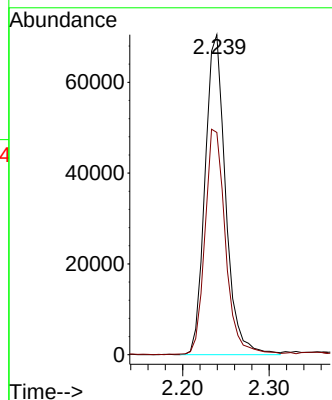
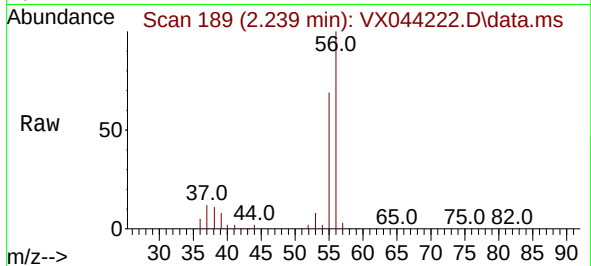




#13
Acrolein
Concen: 258.347 ug/l
RT: 2.239 min Scan# 189
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

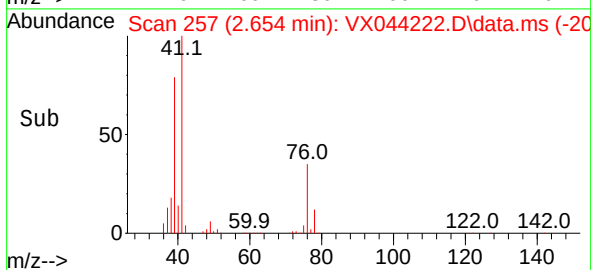
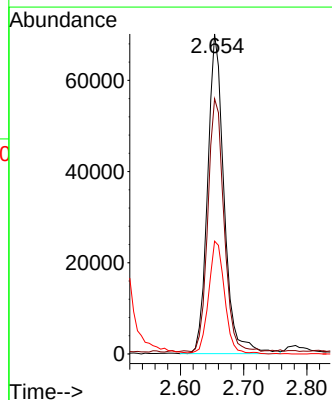
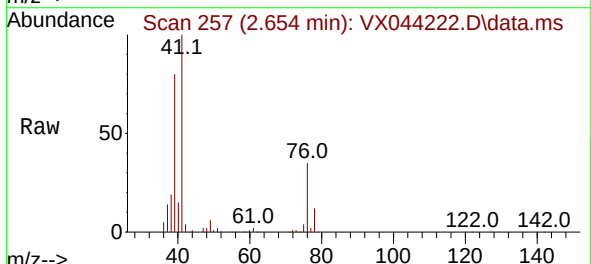
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

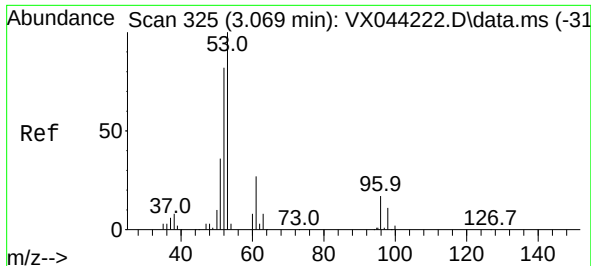
Tgt Ion: 56 Resp: 116171
Ion Ratio Lower Upper
56 100
55 70.7 56.6 84.8



#14
Allyl chloride
Concen: 54.079 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 41 Resp: 126925
Ion Ratio Lower Upper
41 100
39 77.4 61.9 92.9
76 34.3 27.4 41.2





#15

Acrylonitrile

Concen: 261.859 ug/l

RT: 3.069 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

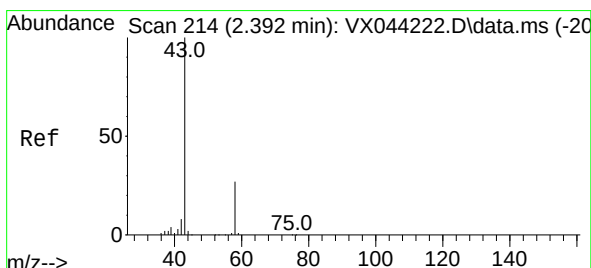
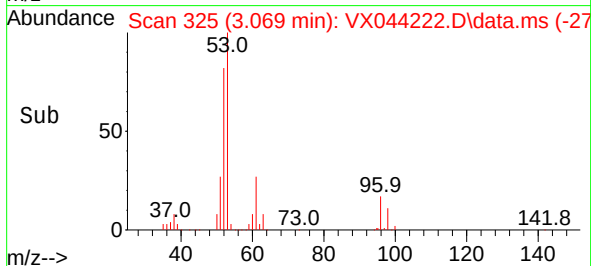
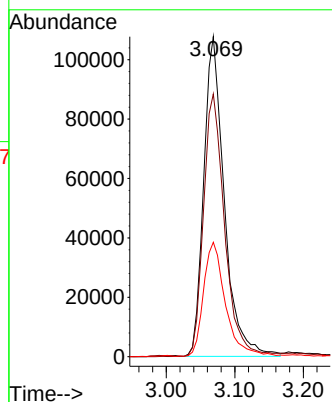
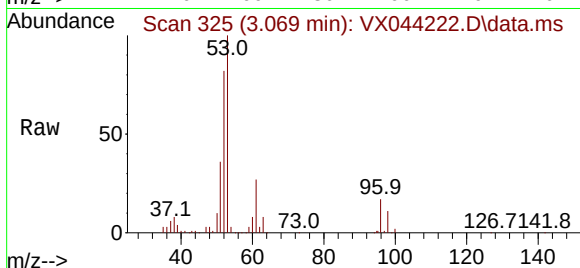
Tgt Ion: 53 Resp: 225330

Ion Ratio Lower Upper

53 100

52 84.2 67.4 101.0

51 37.9 30.3 45.5



#16

Acetone

Concen: 266.704 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.000 min

Lab File: VX044222.D

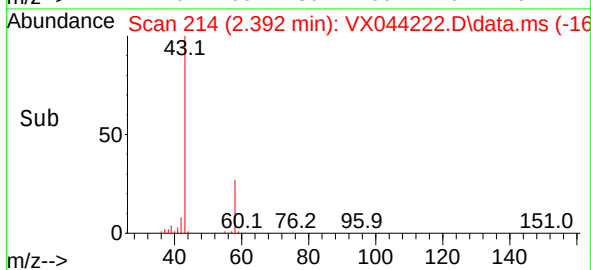
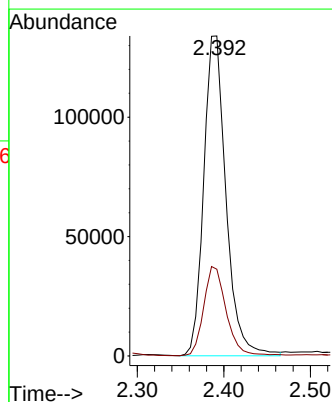
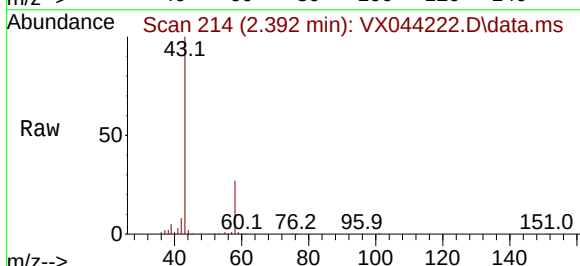
Acq: 11 Dec 2024 12:14

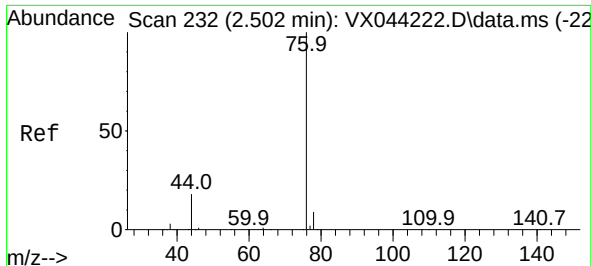
Tgt Ion: 43 Resp: 239661

Ion Ratio Lower Upper

43 100

58 27.0 21.6 32.4

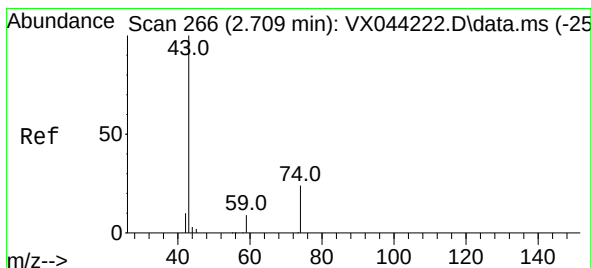
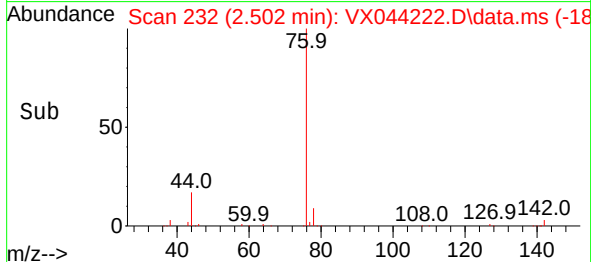
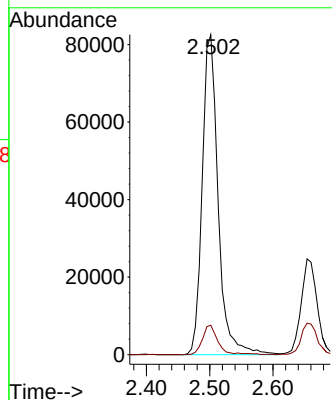
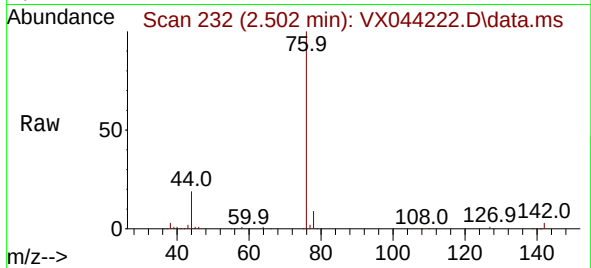




#17
Carbon Disulfide
Concen: 53.994 ug/l
RT: 2.502 min Scan# 241
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

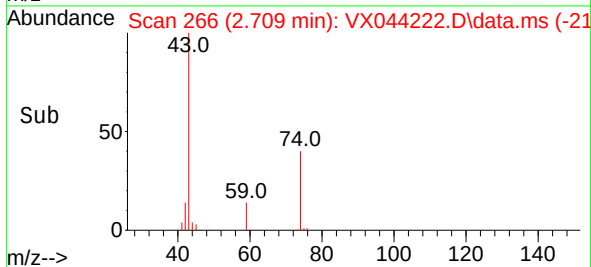
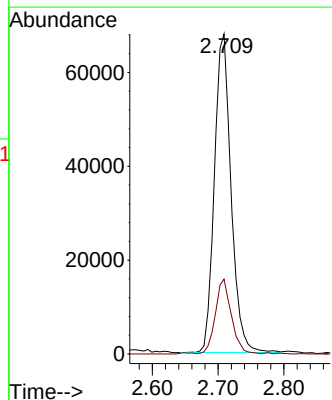
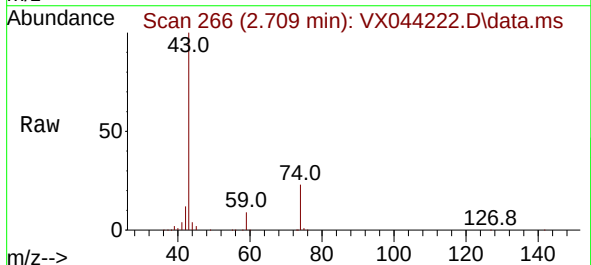
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

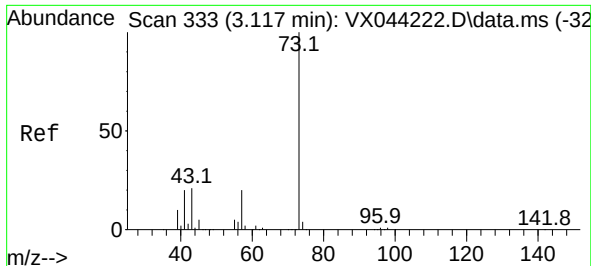
Tgt Ion: 76 Resp: 144624
Ion Ratio Lower Upper
76 100
78 9.2 7.4 11.0



#18
Methyl Acetate
Concen: 51.710 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 119808
Ion Ratio Lower Upper
43 100
74 22.1 17.7 26.5





#19

Methyl tert-butyl Ether

Concen: 52.691 ug/l

RT: 3.117 min Scan# 333

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

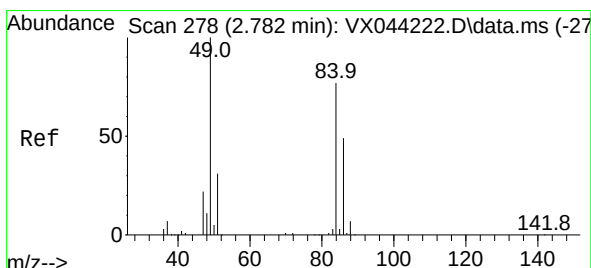
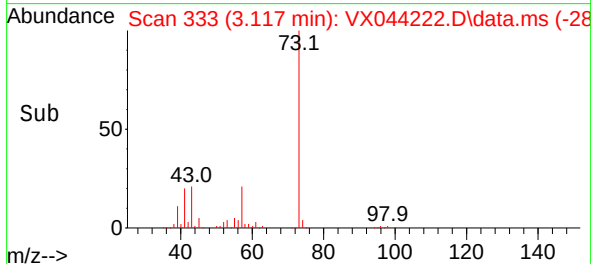
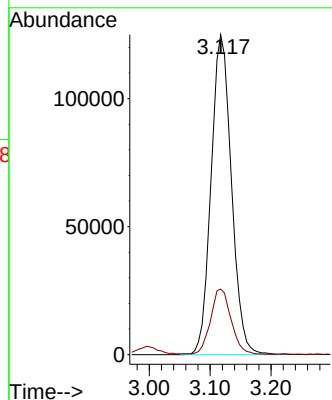
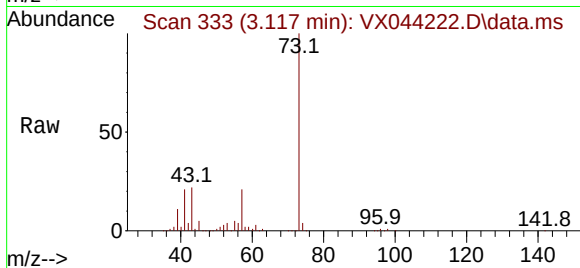
VSTDICCC050

Tgt Ion: 73 Resp: 289735

Ion Ratio Lower Upper

73 100

57 20.3 16.2 24.4



#20

Methylene Chloride

Concen: 51.305 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Tgt Ion: 84 Resp: 86593

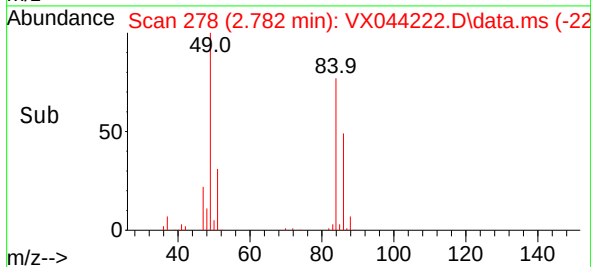
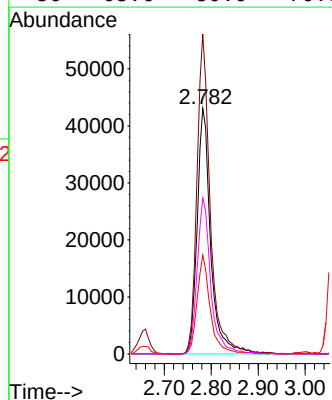
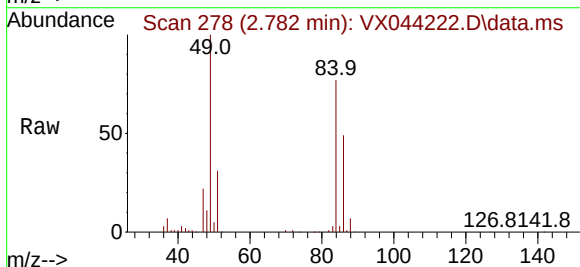
Ion Ratio Lower Upper

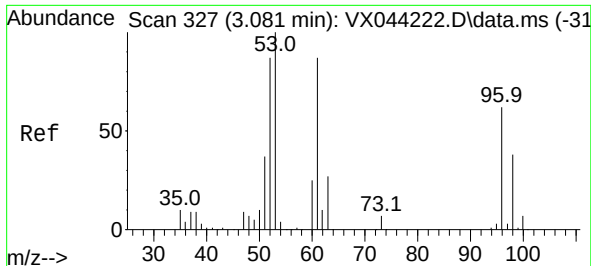
84 100

49 130.3 104.2 156.4

51 40.3 32.2 48.4

86 63.6 50.9 76.3

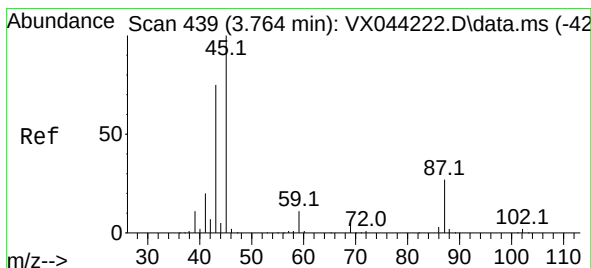
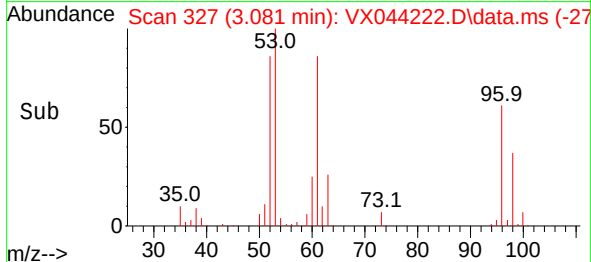
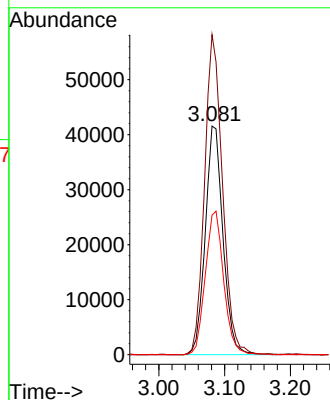
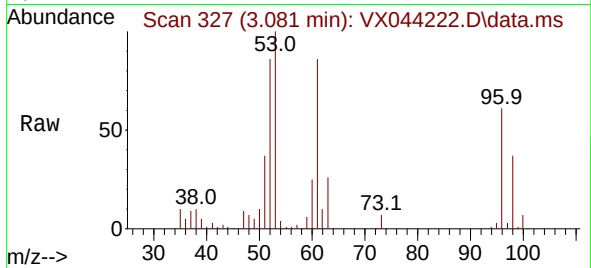




#21
trans-1,2-Dichloroethene
Concen: 51.974 ug/l
RT: 3.081 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

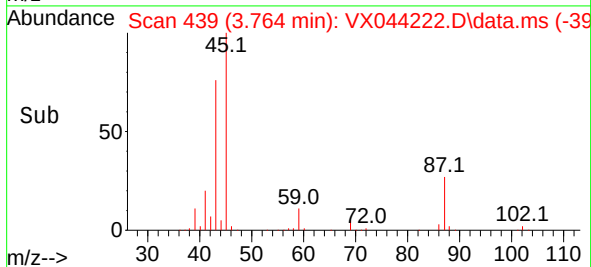
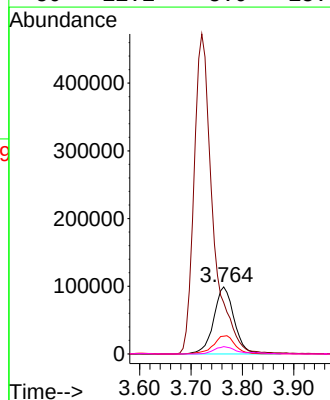
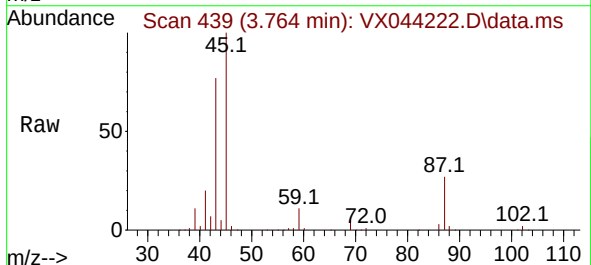
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

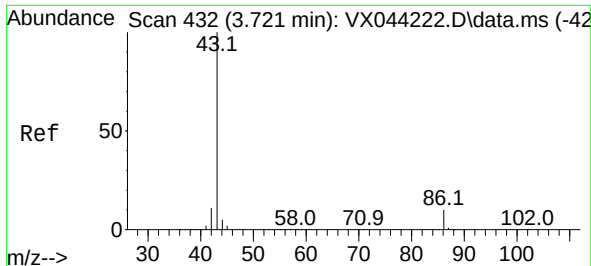
Tgt Ion: 96 Resp: 77834
Ion Ratio Lower Upper
96 100
61 140.0 112.0 168.0
98 61.0 48.8 73.2



#22
Diisopropyl ether
Concen: 51.662 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 45 Resp: 273039
Ion Ratio Lower Upper
45 100
43 75.2 60.2 90.2
87 26.5 21.2 31.8
59 11.1 8.9 13.3

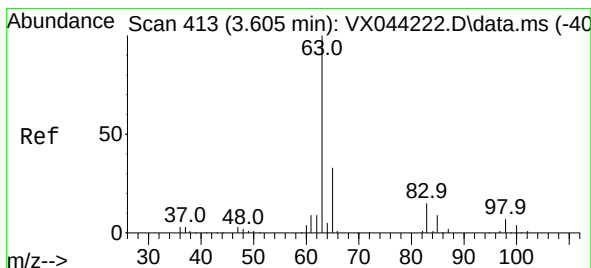
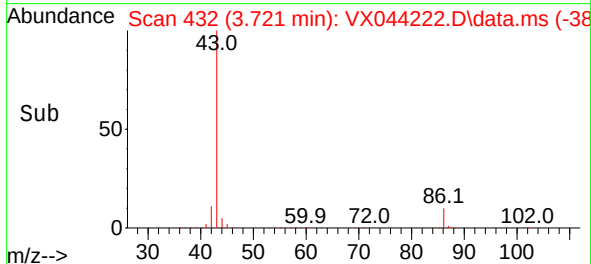
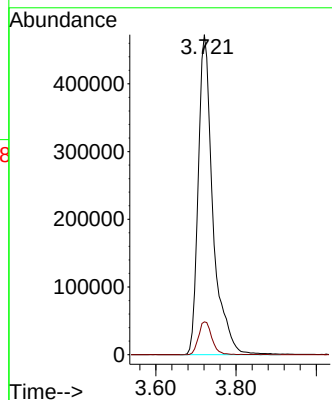
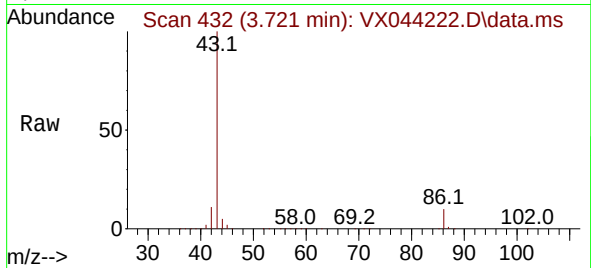




#23
Vinyl Acetate
Concen: 279.754 ug/l
RT: 3.721 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

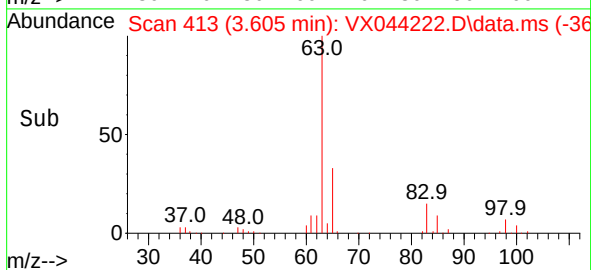
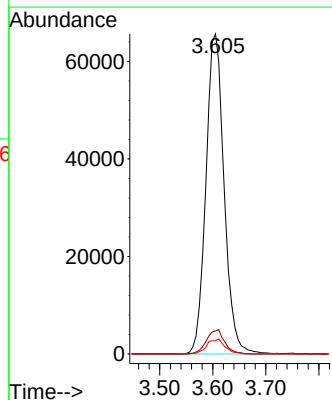
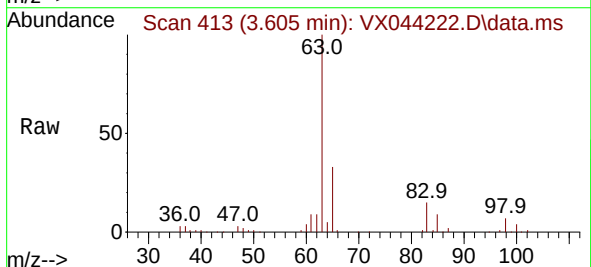
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

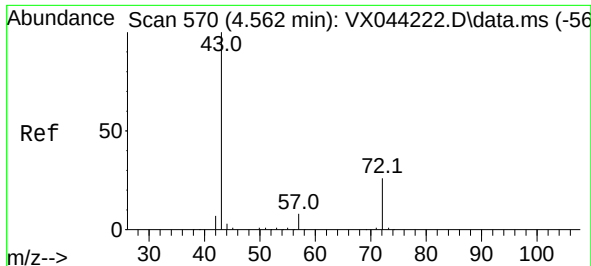
Tgt Ion: 43 Resp: 1202044
Ion Ratio Lower Upper
43 100
86 10.2 8.2 12.2



#24
1,1-Dichloroethane
Concen: 53.093 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 63 Resp: 156412
Ion Ratio Lower Upper
63 100
98 7.2 3.6 10.8
100 4.2 2.1 6.3





#25

2-Butanone

Concen: 269.797 ug/l

RT: 4.562 min Scan# 5

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

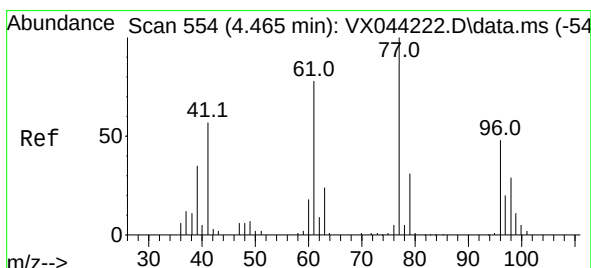
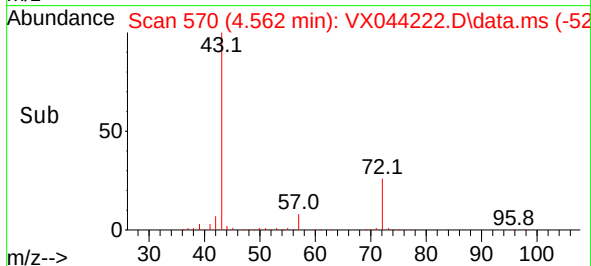
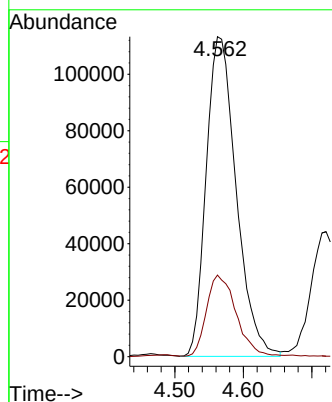
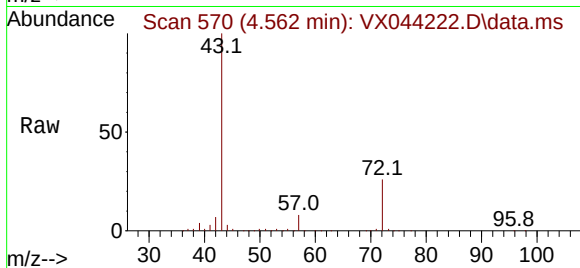
VSTDICCC050

Tgt Ion: 43 Resp: 344663

Ion Ratio Lower Upper

43 100

72 25.3 20.2 30.4



#26

2,2-Dichloropropane

Concen: 54.914 ug/l

RT: 4.465 min Scan# 554

Delta R.T. 0.000 min

Lab File: VX044222.D

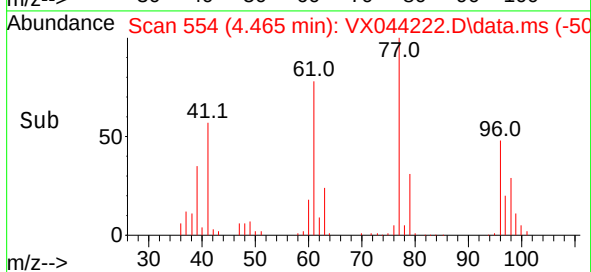
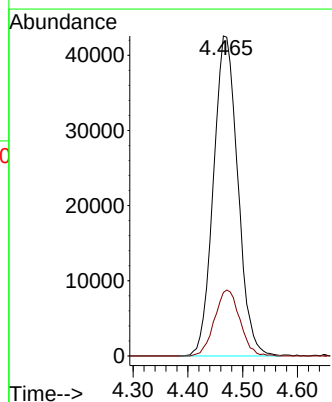
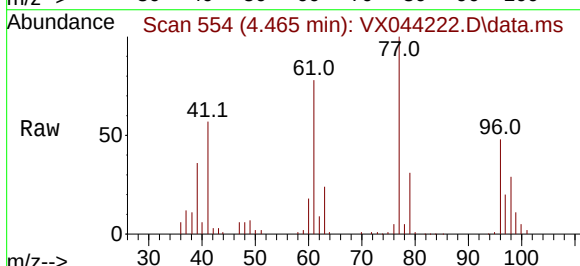
Acq: 11 Dec 2024 12:14

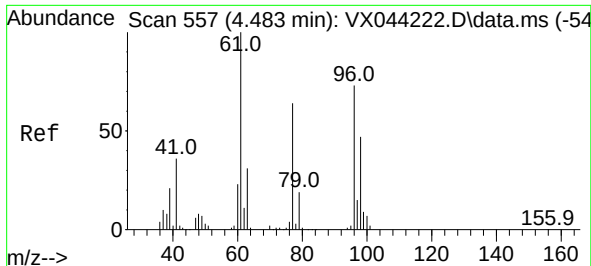
Tgt Ion: 77 Resp: 131428

Ion Ratio Lower Upper

77 100

97 21.4 10.7 32.1



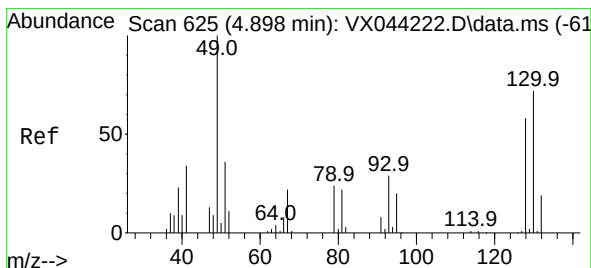
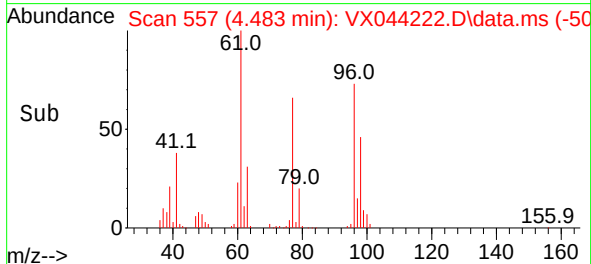
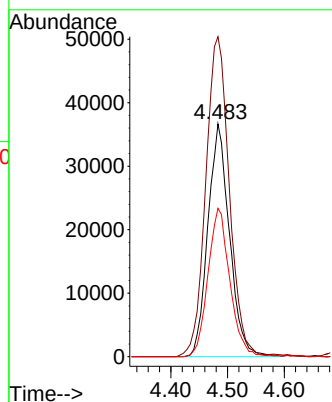
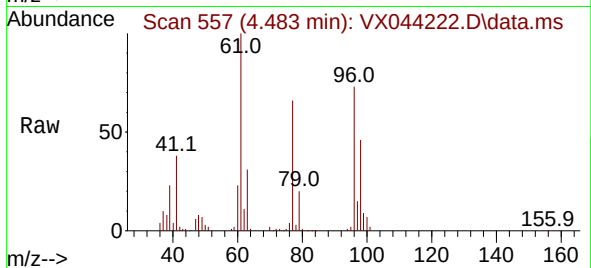


#27
cis-1,2-Dichloroethene
Concen: 51.007 ug/l
RT: 4.483 min Scan# 51
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 97013

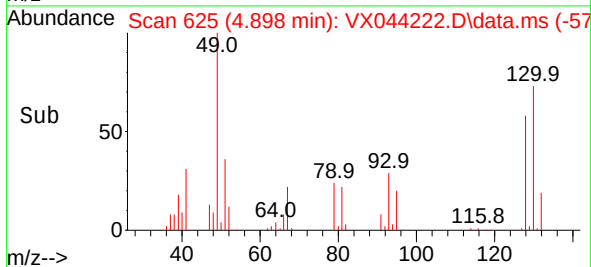
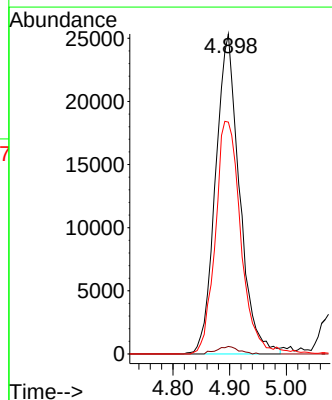
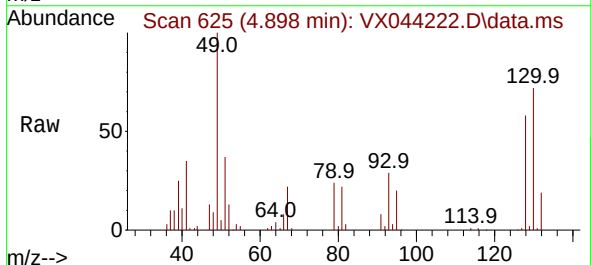
Ion	Ratio	Lower	Upper
96	100		
61	149.5	0.0	299.0
98	64.5	0.0	129.0

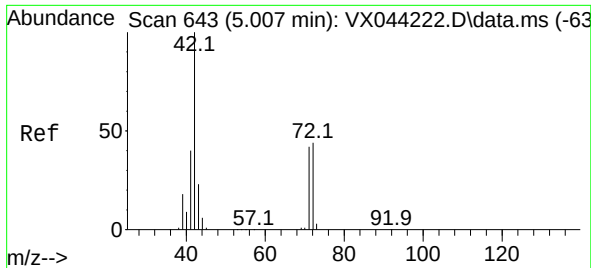


#28
Bromochloromethane
Concen: 51.555 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 49 Resp: 74477

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	77.6	62.1	93.1





#29

Tetrahydrofuran

Concen: 258.669 ug/l

RT: 5.007 min Scan# 643

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

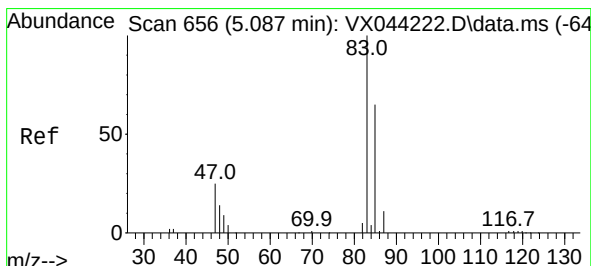
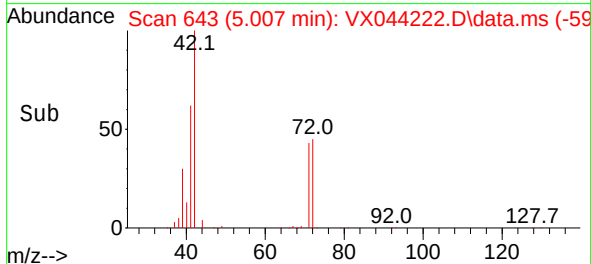
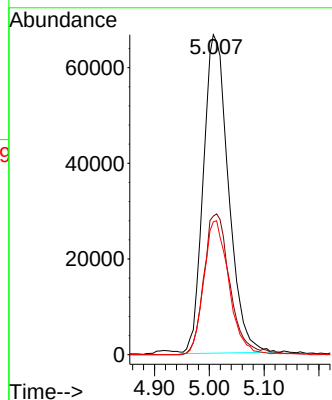
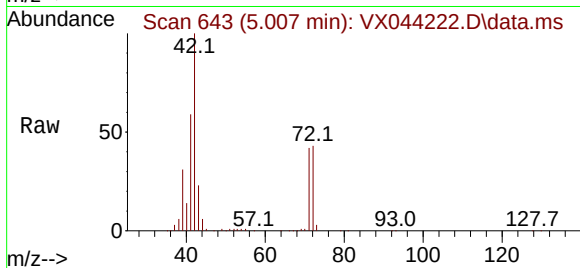
Tgt Ion: 42 Resp: 212103

Ion Ratio Lower Upper

42 100

72 46.3 37.0 55.6

71 42.0 33.6 50.4



#30

Chloroform

Concen: 51.017 ug/l

RT: 5.087 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX044222.D

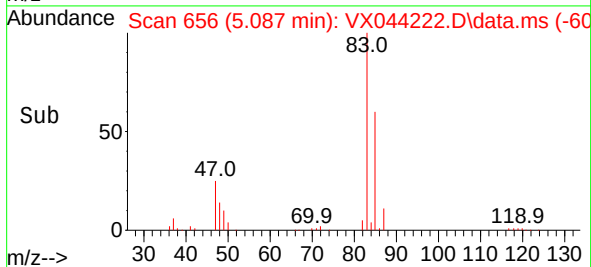
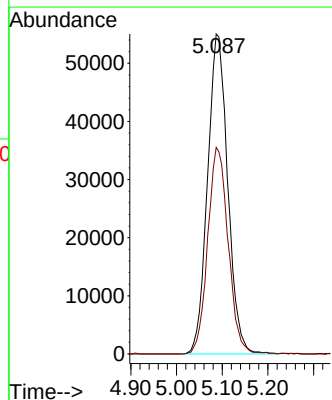
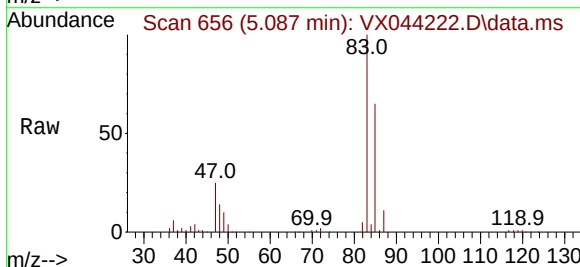
Acq: 11 Dec 2024 12:14

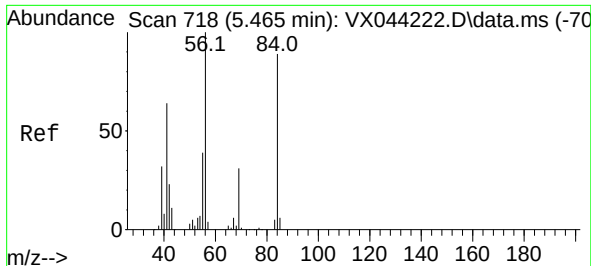
Tgt Ion: 83 Resp: 168864

Ion Ratio Lower Upper

83 100

85 64.5 51.6 77.4

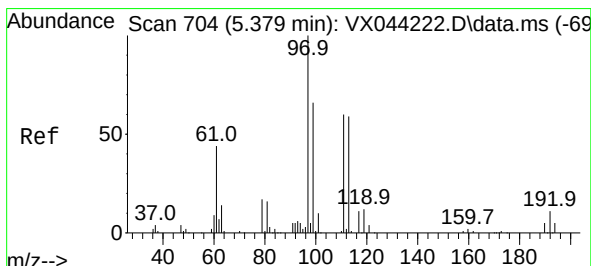
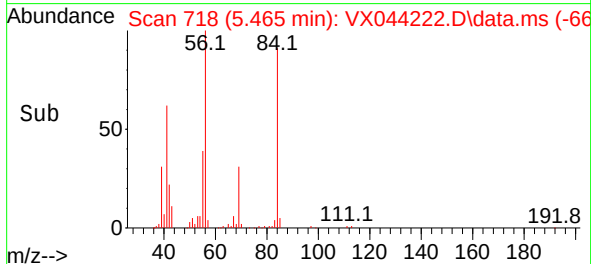
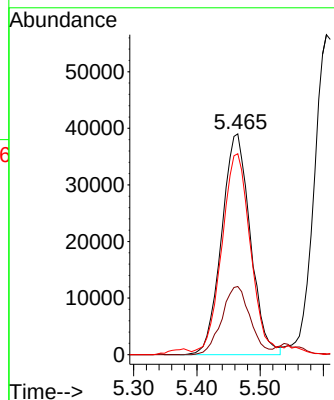
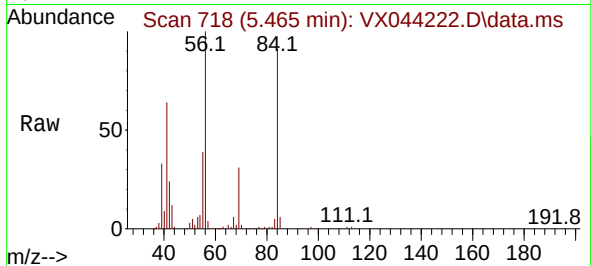




#31
Cyclohexane
Concen: 51.637 ug/l
RT: 5.465 min Scan# 718
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

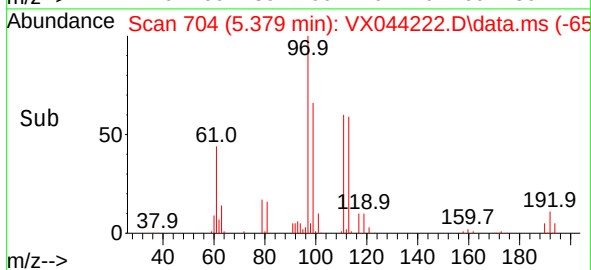
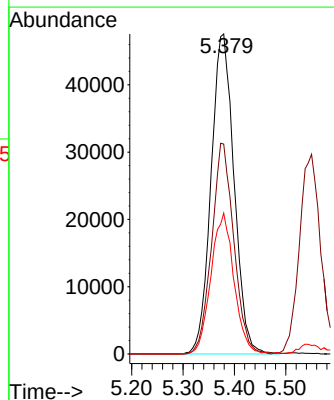
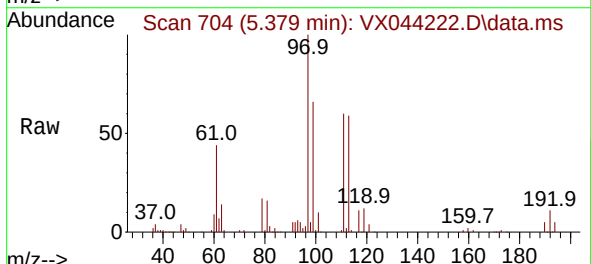
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

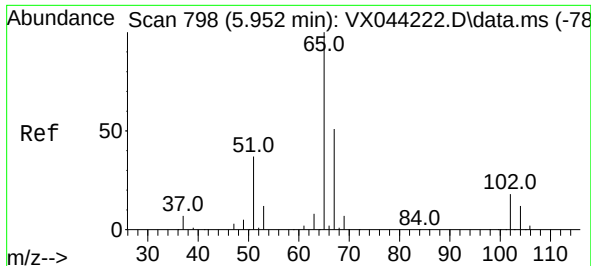
Tgt Ion: 56 Resp: 122841
Ion Ratio Lower Upper
56 100
69 30.9 24.7 37.1
84 88.8 71.0 106.6



#32
1,1,1-Trichloroethane
Concen: 53.806 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 97 Resp: 147834
Ion Ratio Lower Upper
97 100
99 63.5 50.8 76.2
61 44.0 35.2 52.8





#33

1,2-Dichloroethane-d4

Concen: 52.544 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

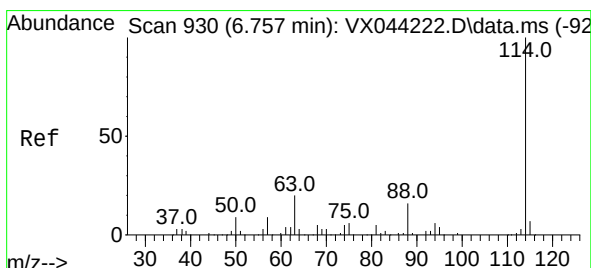
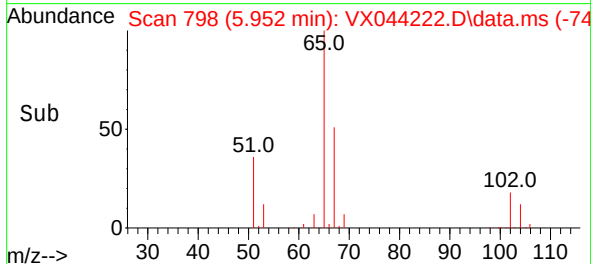
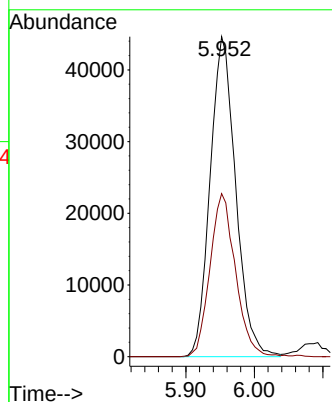
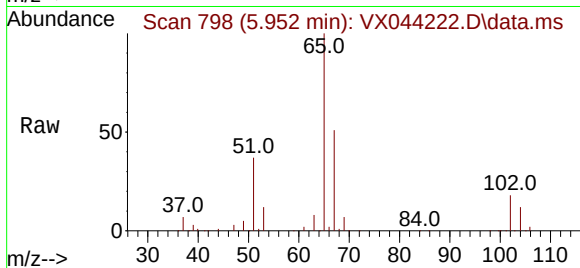
VSTDICCC050

Tgt Ion: 65 Resp: 115815

Ion Ratio Lower Upper

65 100

67 50.8 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

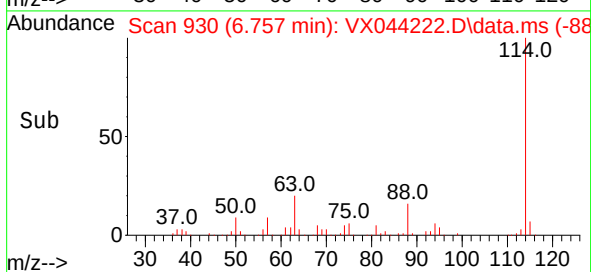
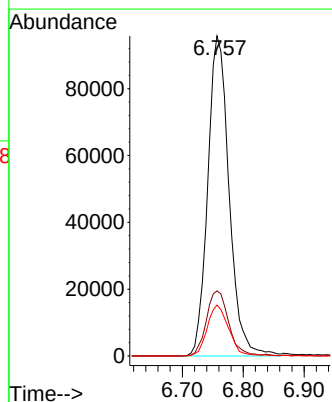
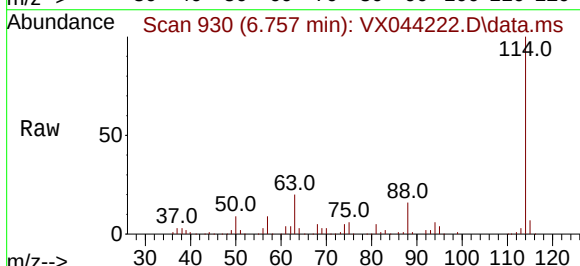
Tgt Ion: 114 Resp: 233488

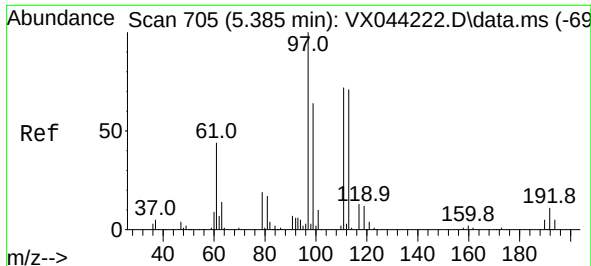
Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.6

88 15.9 0.0 31.8





#35

Dibromofluoromethane

Concen: 52.968 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

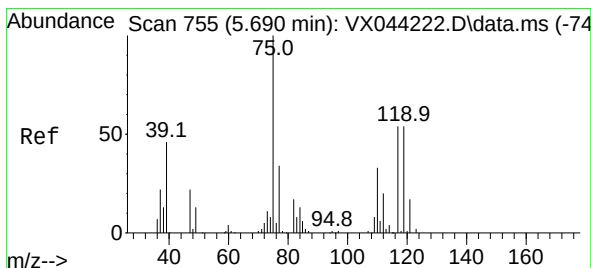
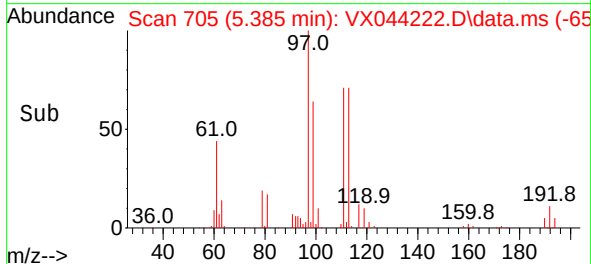
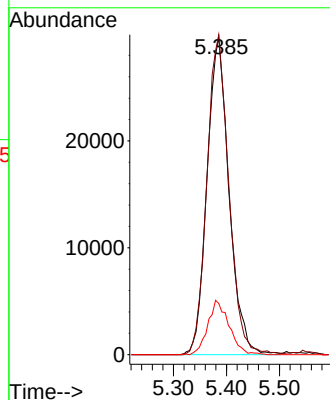
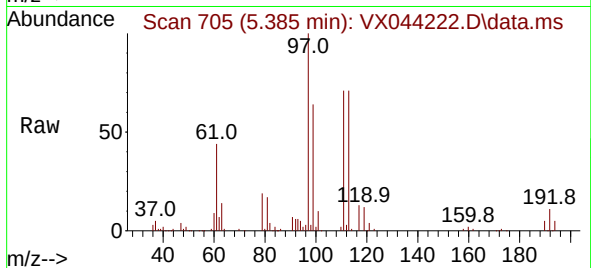
Tgt Ion:113 Resp: 85656

Ion Ratio Lower Upper

113 100

111 100.5 80.4 120.6

192 16.6 13.3 19.9



#36

1,1-Dichloropropene

Concen: 49.638 ug/l

RT: 5.690 min Scan# 755

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

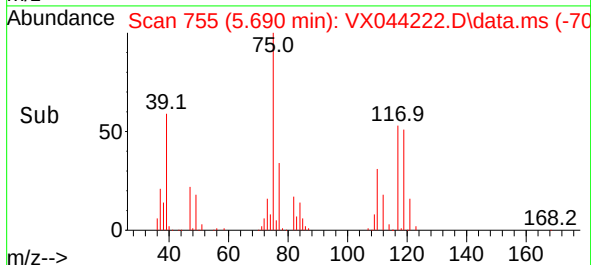
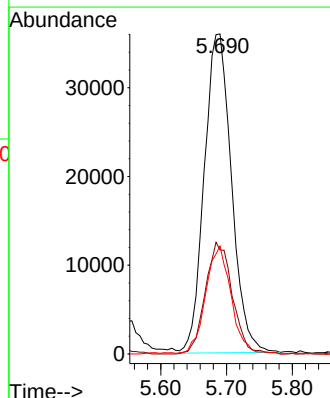
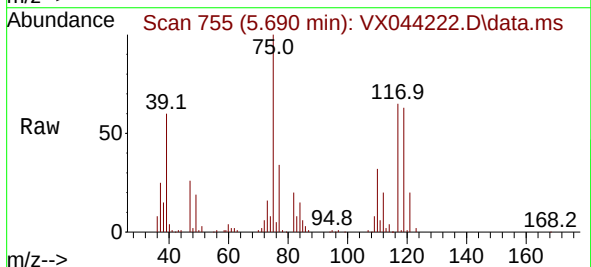
Tgt Ion: 75 Resp: 103760

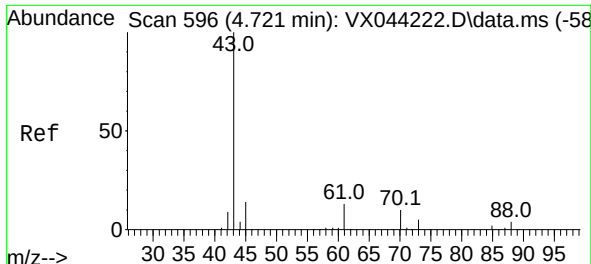
Ion Ratio Lower Upper

75 100

110 34.5 17.3 51.7

77 31.7 25.4 38.0





#37

Ethyl Acetate

Concen: 52.537 ug/l

RT: 4.721 min Scan# 596

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

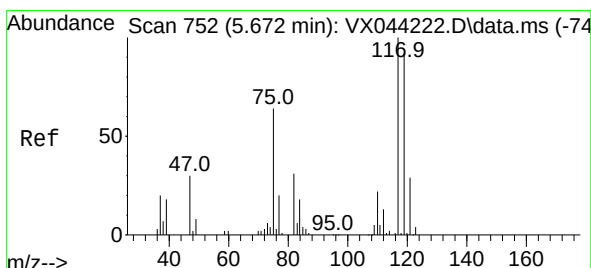
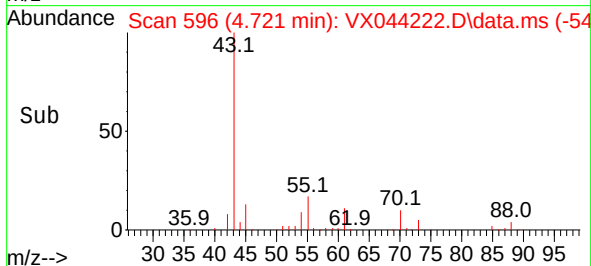
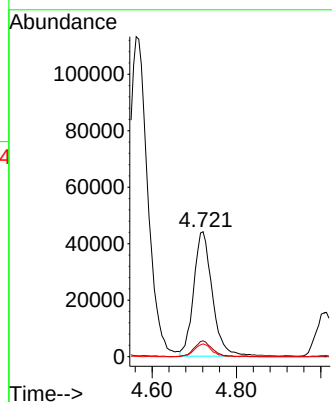
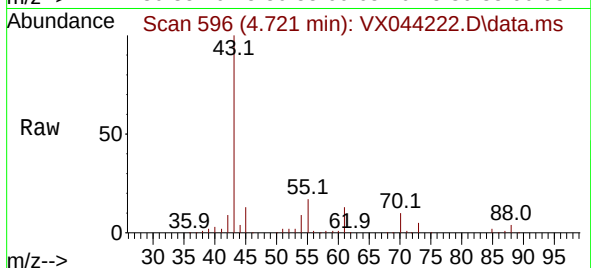
Tgt Ion: 43 Resp: 135753

Ion Ratio Lower Upper

43 100

61 12.3 9.8 14.8

70 9.6 7.7 11.5



#38

Carbon Tetrachloride

Concen: 52.023 ug/l

RT: 5.672 min Scan# 752

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

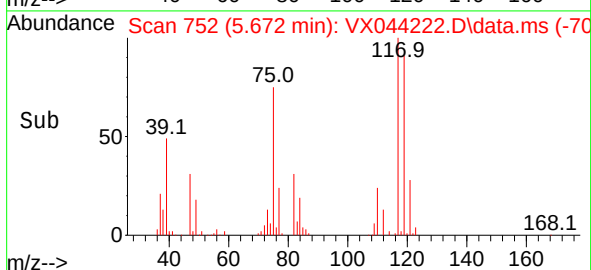
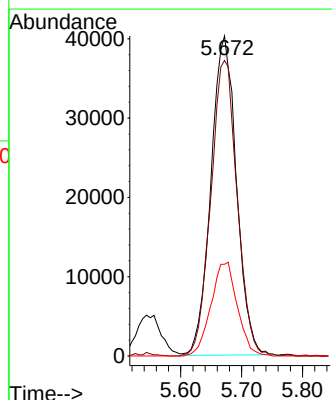
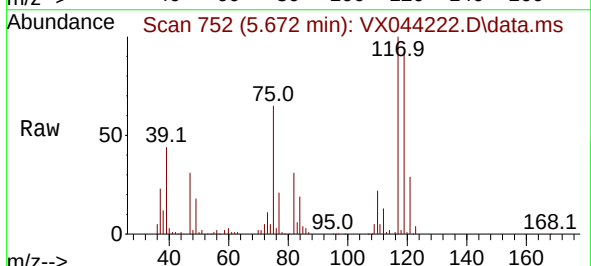
Tgt Ion: 117 Resp: 117076

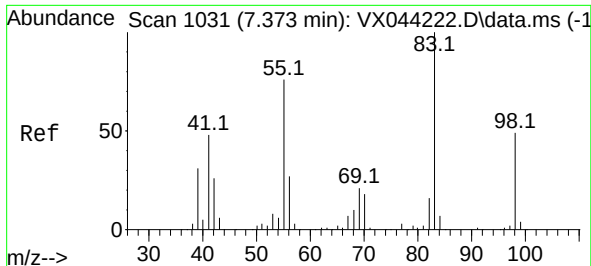
Ion Ratio Lower Upper

117 100

119 92.8 74.2 111.4

121 28.8 23.0 34.6





#39

Methylcyclohexane

Concen: 51.901 ug/l

RT: 7.373 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

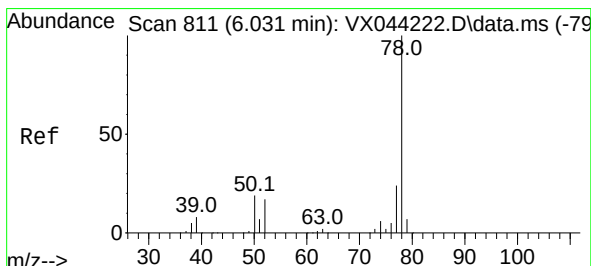
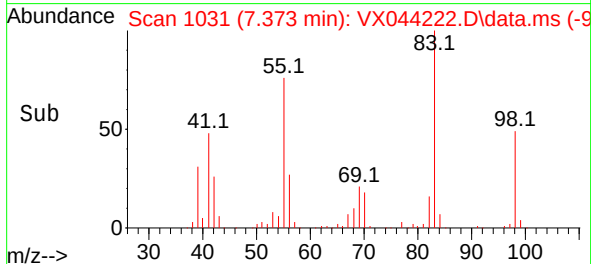
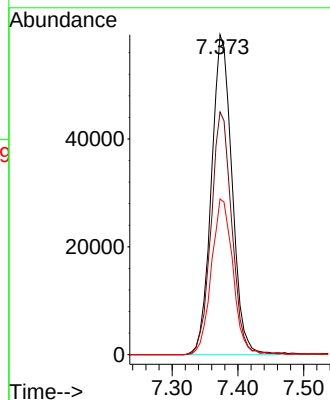
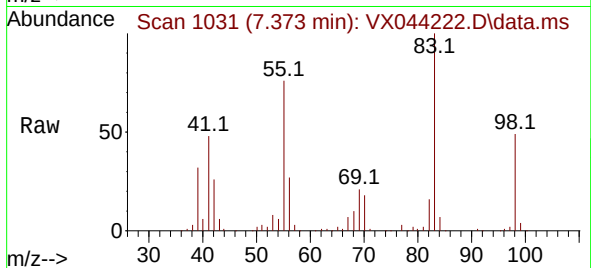
Tgt Ion: 83 Resp: 129697

Ion Ratio Lower Upper

83 100

55 75.9 60.7 91.1

98 48.6 38.9 58.3



#40

Benzene

Concen: 51.863 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX044222.D

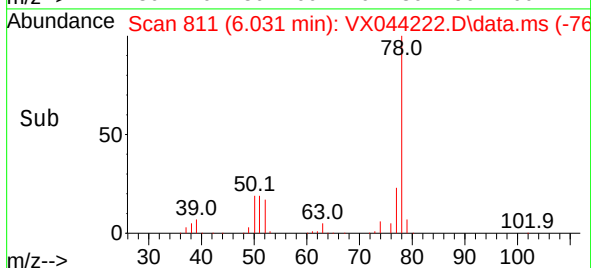
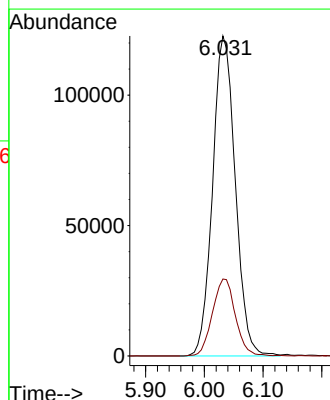
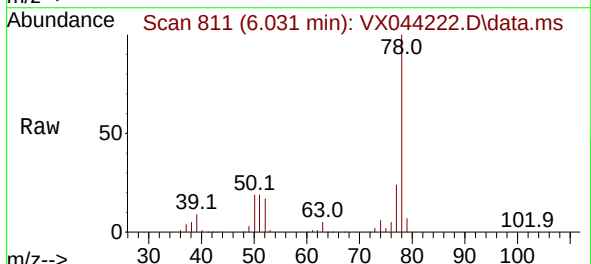
Acq: 11 Dec 2024 12:14

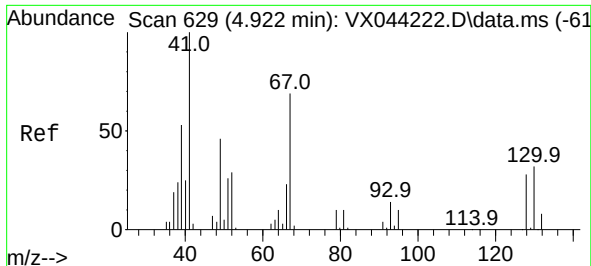
Tgt Ion: 78 Resp: 329154

Ion Ratio Lower Upper

78 100

77 24.1 19.3 28.9



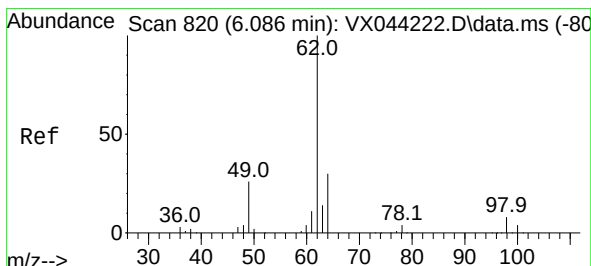
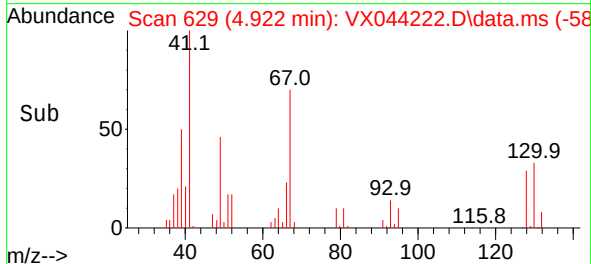
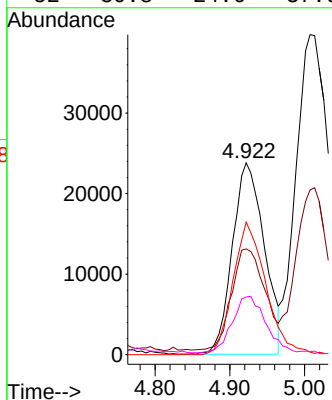
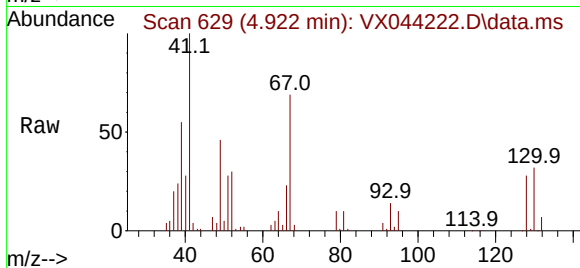


#41
Methacrylonitrile
Concen: 51.329 ug/l
RT: 4.922 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 70427

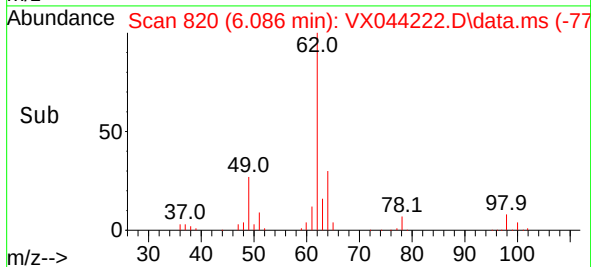
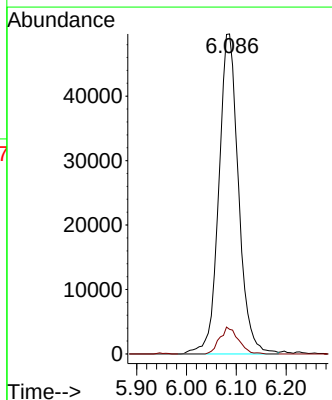
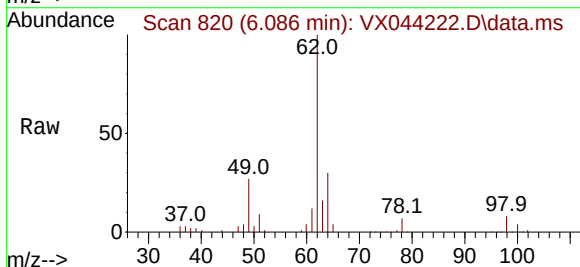
Ion	Ratio	Lower	Upper
41	100		
39	55.3	44.2	66.4
67	71.5	57.2	85.8
52	30.8	24.6	37.0

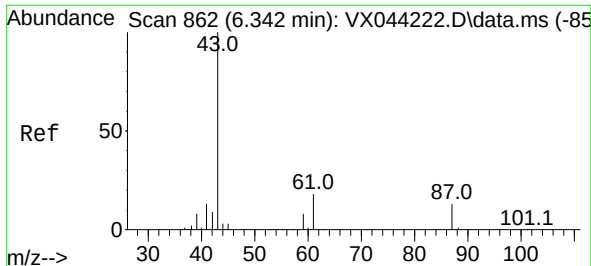


#42
1,2-Dichloroethane
Concen: 52.138 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 62 Resp: 136309

Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	15.8

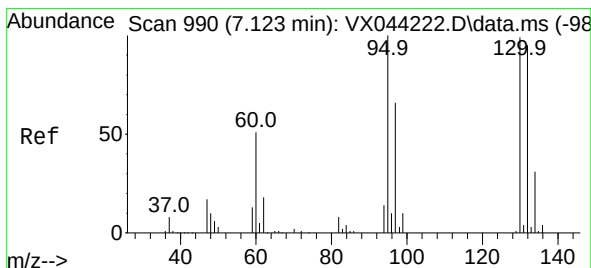
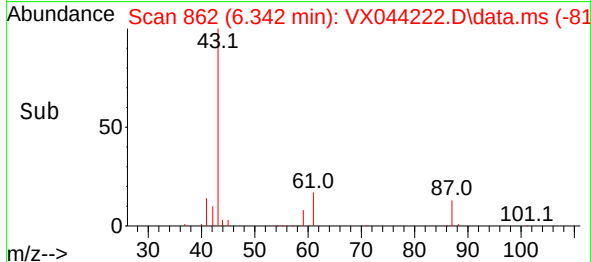
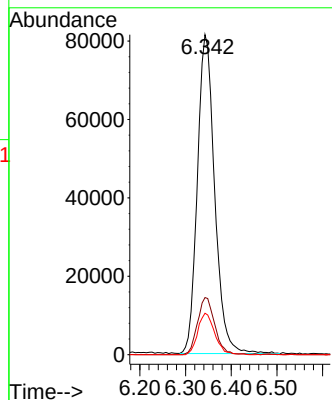
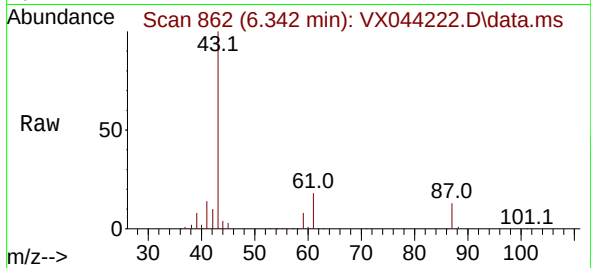




#43
Isopropyl Acetate
Concen: 52.961 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

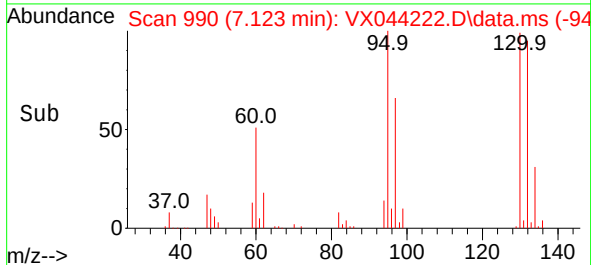
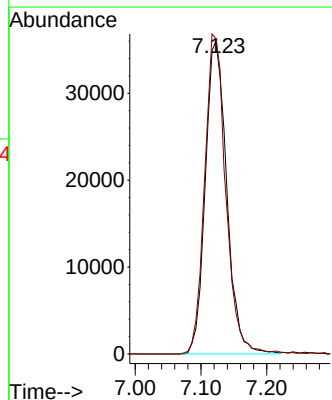
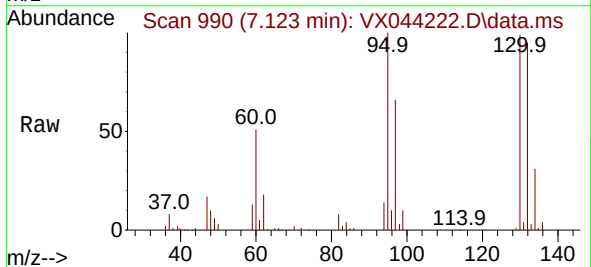
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

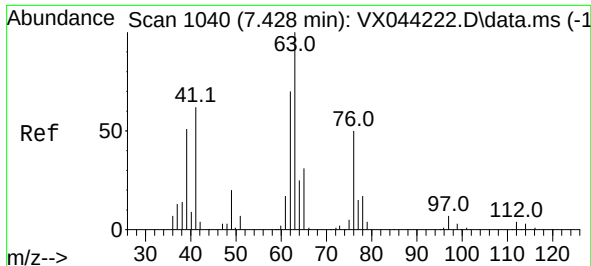
Tgt Ion: 43 Resp: 213891
Ion Ratio Lower Upper
43 100
61 17.7 14.2 21.2
87 12.7 10.2 15.2



#44
Trichloroethene
Concen: 51.521 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:130 Resp: 81542
Ion Ratio Lower Upper
130 100
95 100.7 0.0 201.4

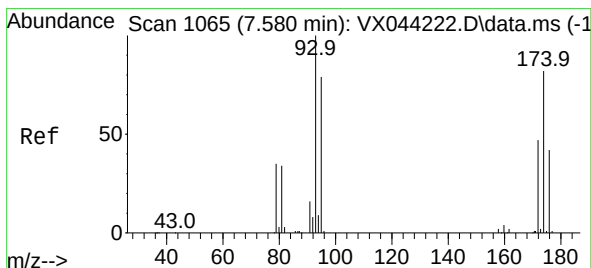
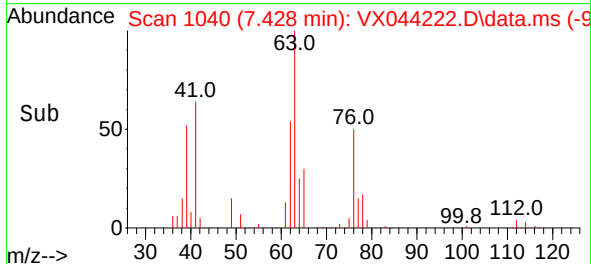
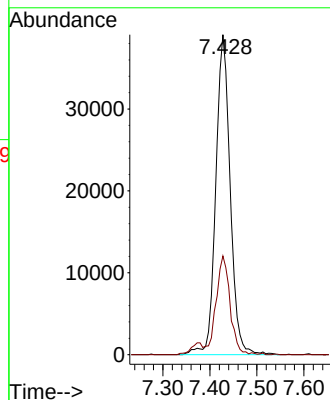
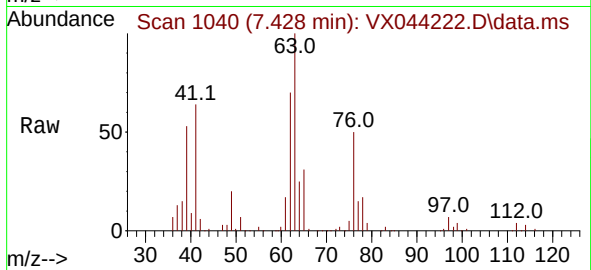




#45
1,2-Dichloropropane
Concen: 51.420 ug/l
RT: 7.428 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

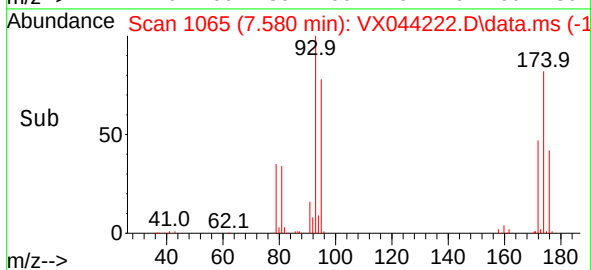
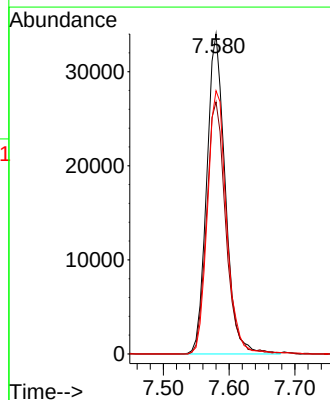
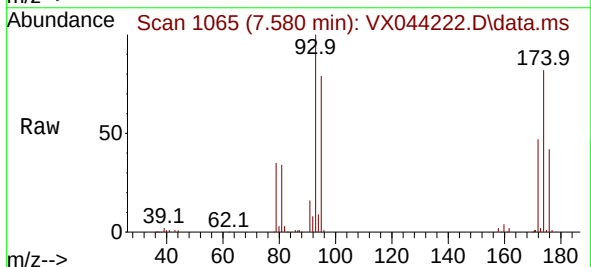
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

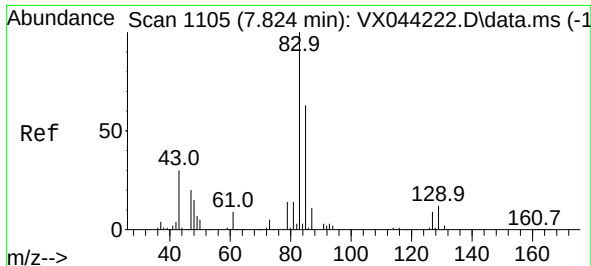
Tgt Ion: 63 Resp: 83376
Ion Ratio Lower Upper
63 100
65 30.8 24.6 37.0



#46
Dibromomethane
Concen: 53.092 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 93 Resp: 66786
Ion Ratio Lower Upper
93 100
95 81.8 65.4 98.2
174 84.9 67.9 101.9

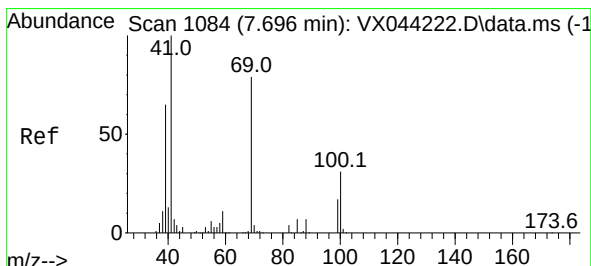
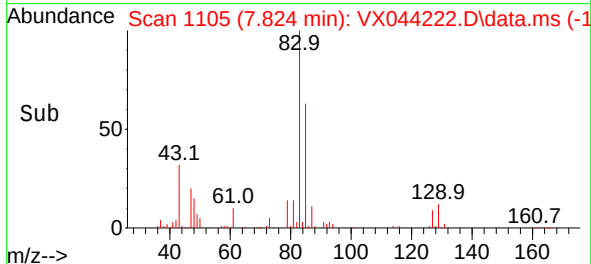
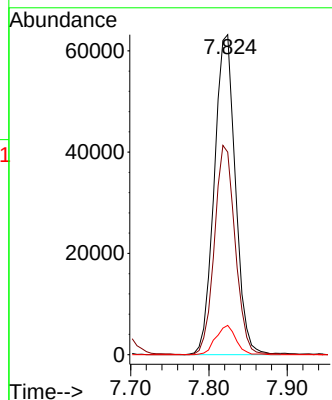
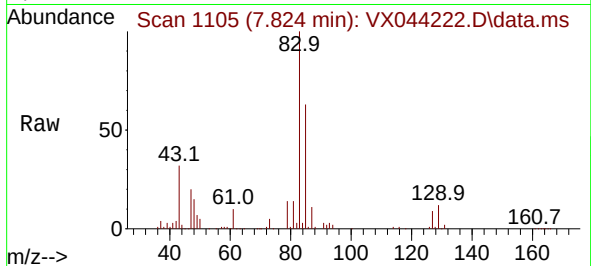




#47
 Bromodichloromethane
 Concen: 54.607 ug/l
 RT: 7.824 min Scan# 1105
 Delta R.T. 0.000 min
 Lab File: VX044222.D
 Acq: 11 Dec 2024 12:14

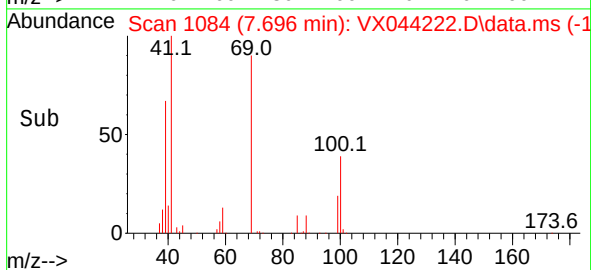
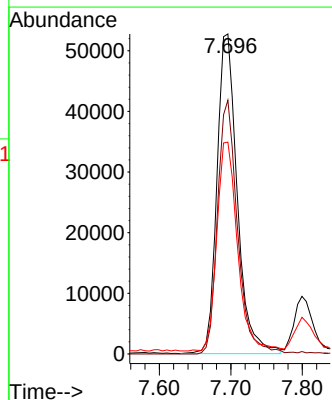
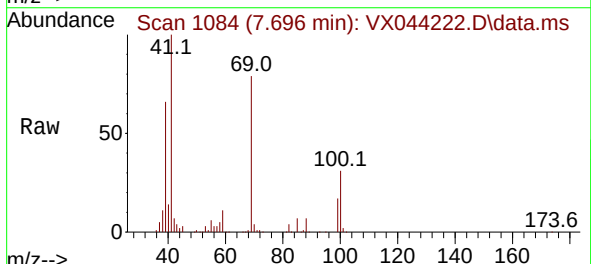
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

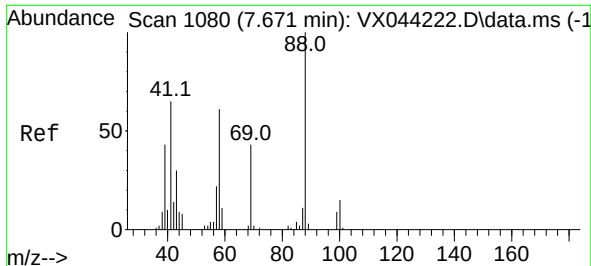
Tgt Ion: 83 Resp: 118634
 Ion Ratio Lower Upper
 83 100
 85 63.2 50.6 75.8
 127 9.1 7.3 10.9



#48
 Methyl methacrylate
 Concen: 52.909 ug/l
 RT: 7.696 min Scan# 1084
 Delta R.T. 0.000 min
 Lab File: VX044222.D
 Acq: 11 Dec 2024 12:14

Tgt Ion: 41 Resp: 103726
 Ion Ratio Lower Upper
 41 100
 69 78.0 62.4 93.6
 39 66.6 53.3 79.9





#49

1,4-Dioxane

Concen: 843.658 ug/l

RT: 7.671 min Scan# 1080

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

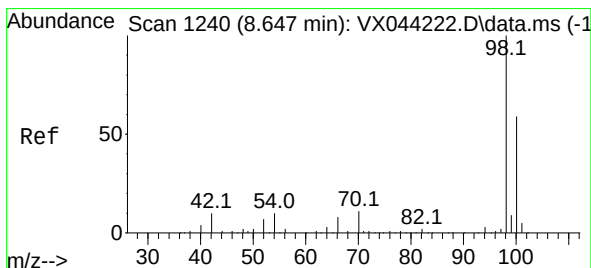
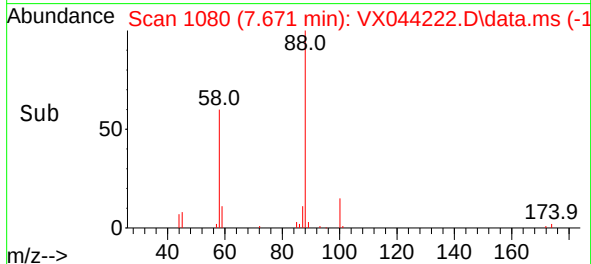
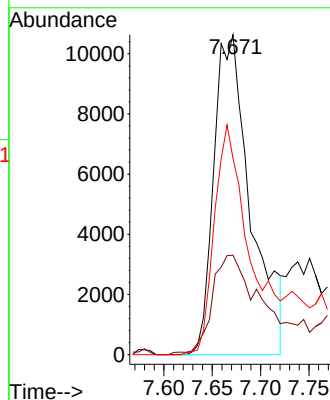
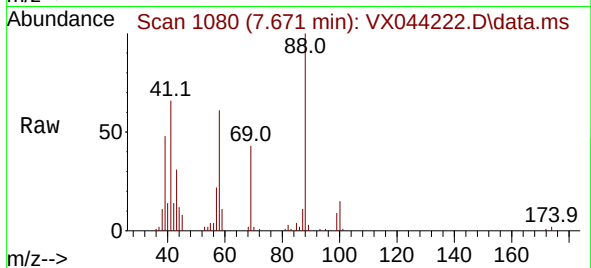
Tgt Ion: 88 Resp: 28266

Ion Ratio Lower Upper

88 100

43 45.2 27.1 40.7#

58 68.3 41.0 61.4#



#50

Toluene-d8

Concen: 53.559 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044222.D

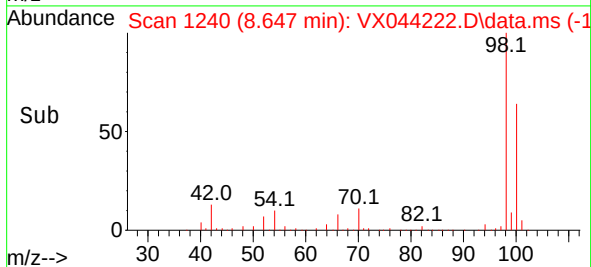
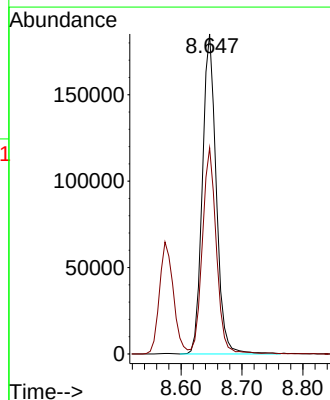
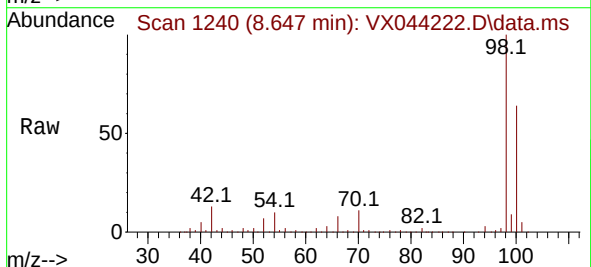
Acq: 11 Dec 2024 12:14

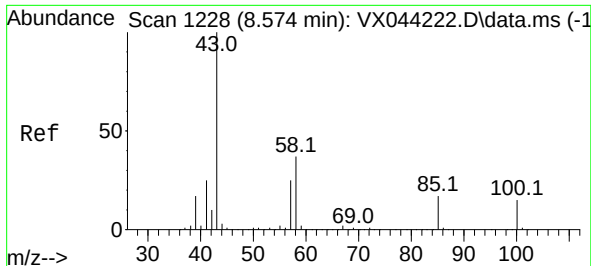
Tgt Ion: 98 Resp: 292199

Ion Ratio Lower Upper

98 100

100 64.4 51.5 77.3

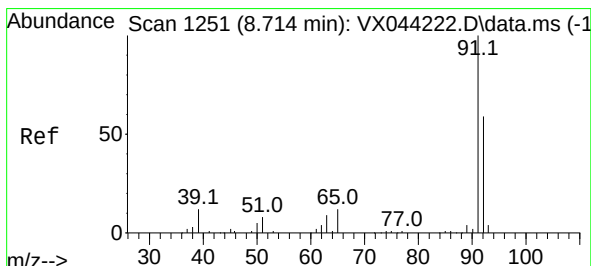
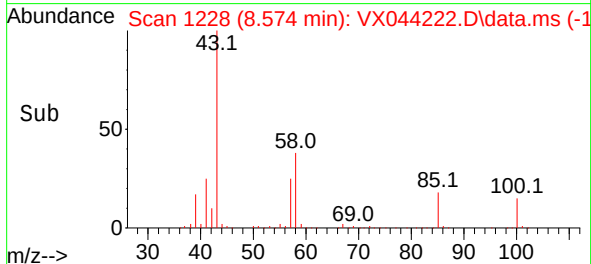
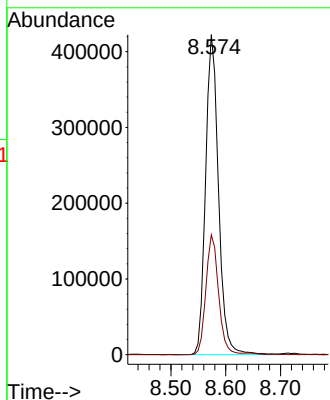
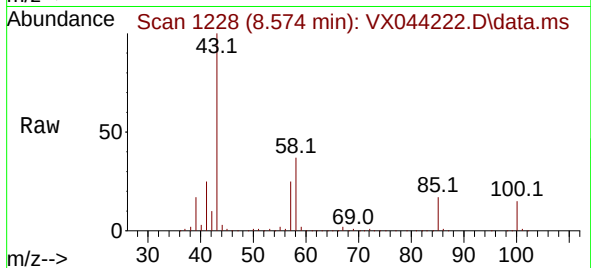




#51
4-Methyl-2-Pentanone
Concen: 265.203 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

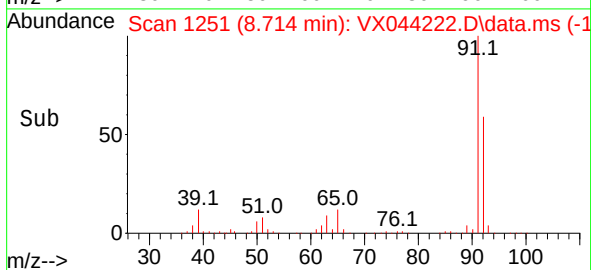
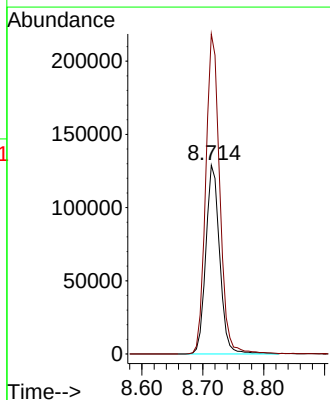
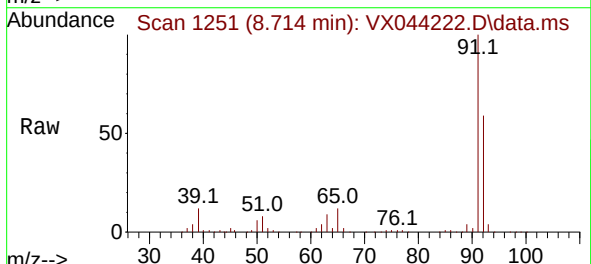
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

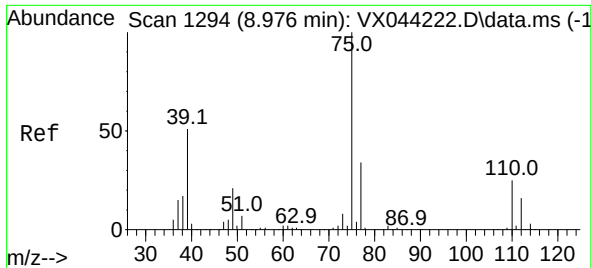
Tgt Ion: 43 Resp: 688666
Ion Ratio Lower Upper
43 100
58 36.7 29.4 44.0



#52
Toluene
Concen: 51.370 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 92 Resp: 204738
Ion Ratio Lower Upper
92 100
91 171.3 137.0 205.6

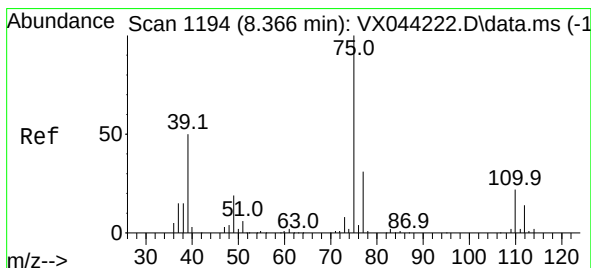
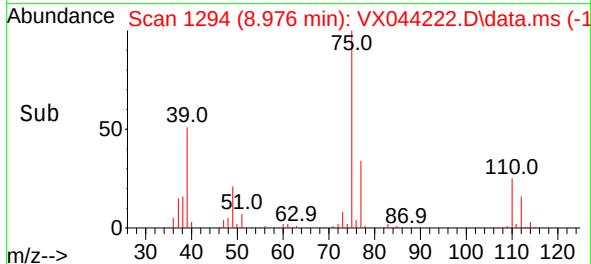
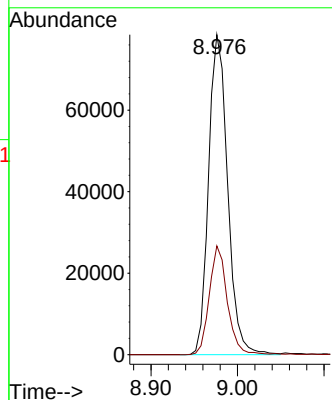
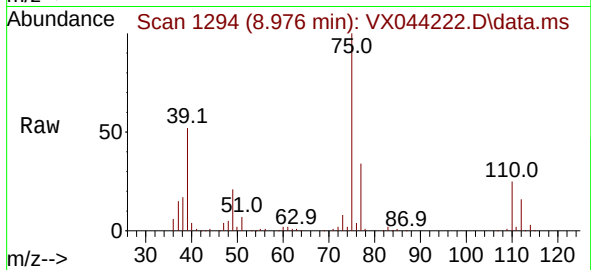




#53
t-1,3-Dichloropropene
Concen: 51.362 ug/l
RT: 8.976 min Scan# 1294
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

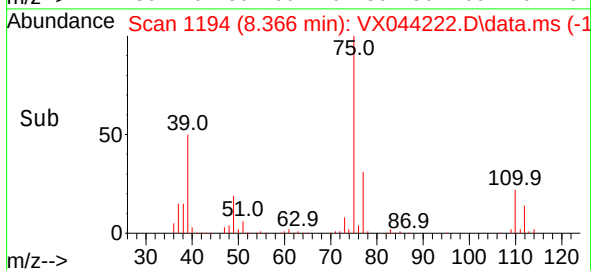
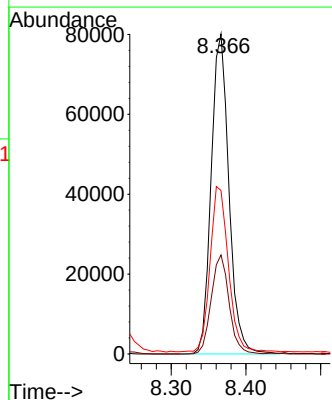
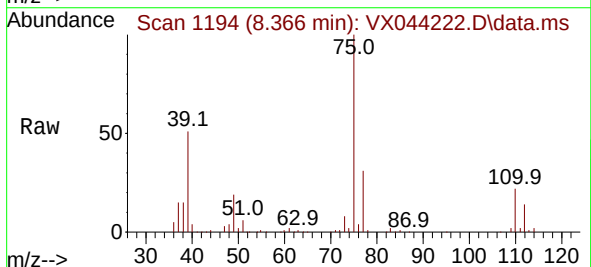
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

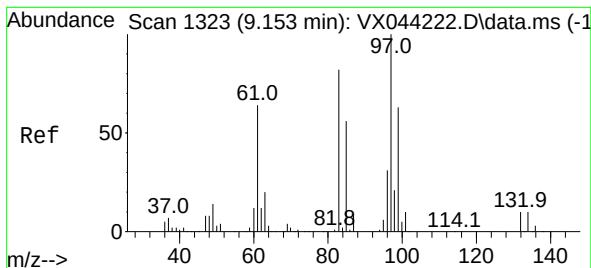
Tgt Ion: 75 Resp: 120007
Ion Ratio Lower Upper
75 100
77 34.0 27.2 40.8



#54
cis-1,3-Dichloropropene
Concen: 55.923 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 132286
Ion Ratio Lower Upper
75 100
77 30.9 24.7 37.1
39 50.4 40.3 60.5

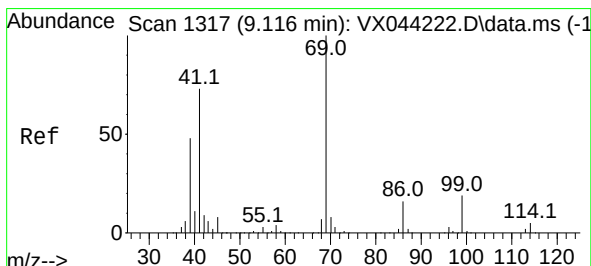
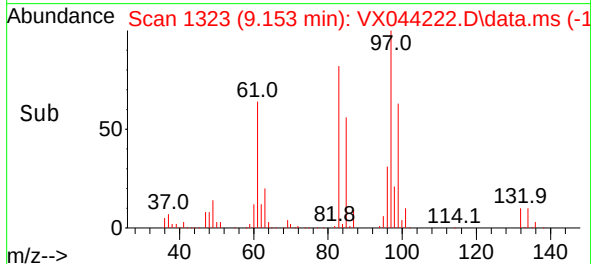
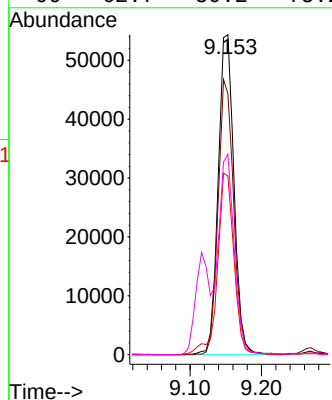
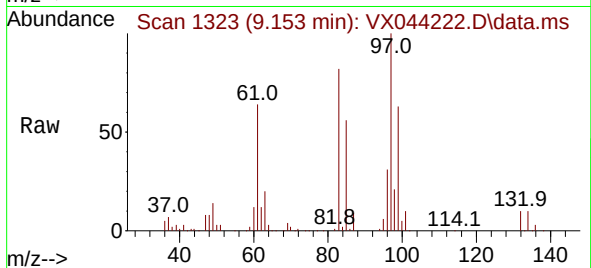




#55
1,1,2-Trichloroethane
Concen: 52.729 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

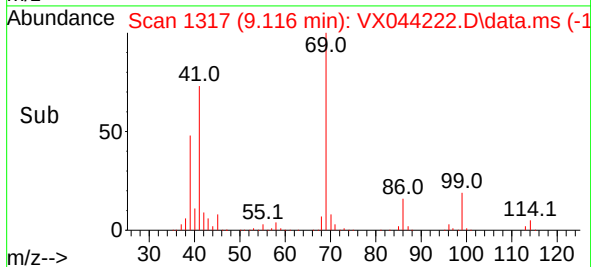
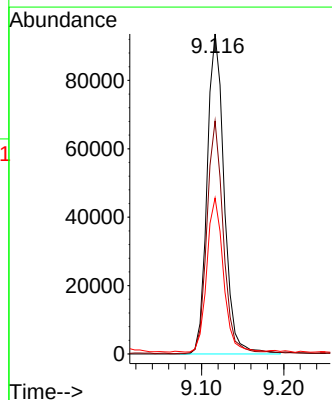
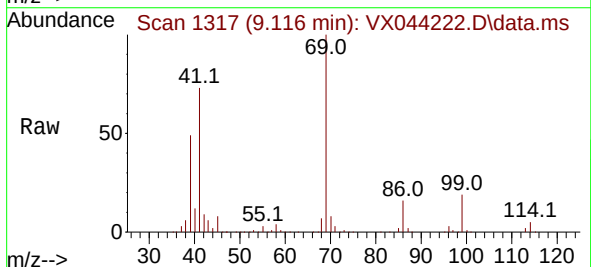
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

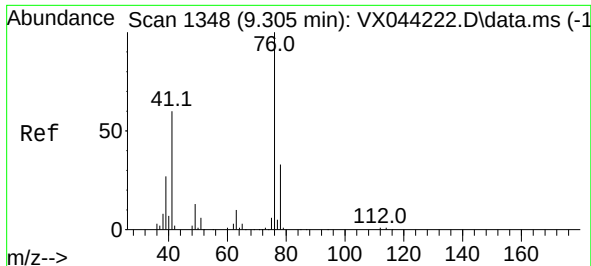
Tgt Ion:	97	Resp:	83488
Ion	Ratio	Lower	Upper
97	100		
83	81.6	65.3	97.9
85	55.8	44.6	67.0
99	62.7	50.2	75.2



#56
Ethyl methacrylate
Concen: 53.917 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:	69	Resp:	134770
Ion	Ratio	Lower	Upper
69	100		
41	70.8	56.6	85.0
39	46.7	37.4	56.0

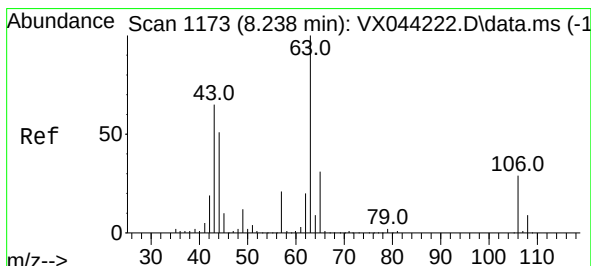
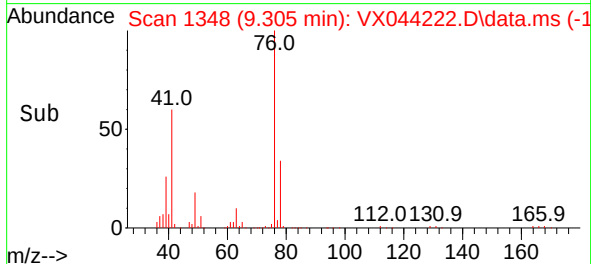
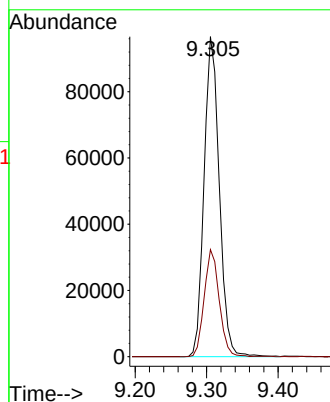
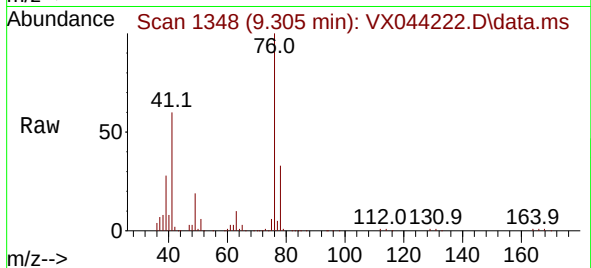




#57
1,3-Dichloropropane
Concen: 51.904 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

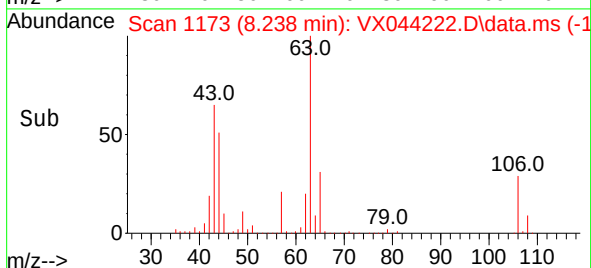
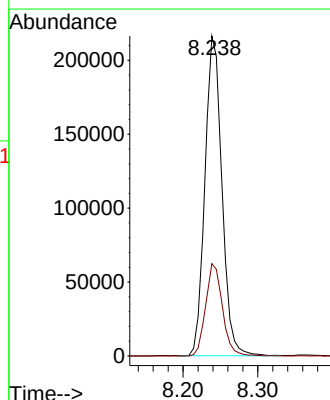
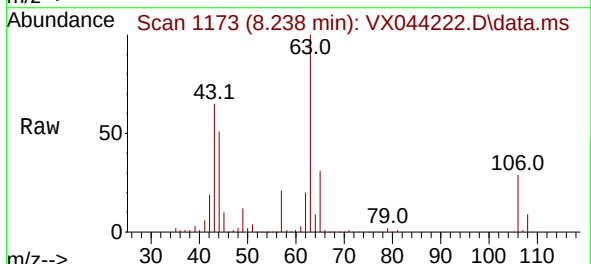
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

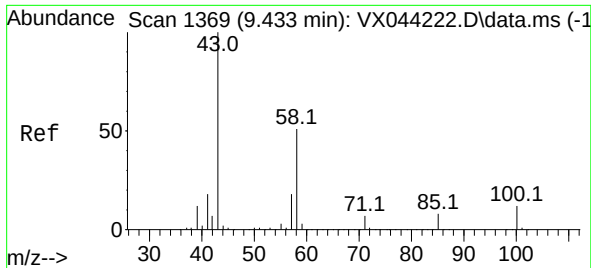
Tgt Ion: 76 Resp: 143044
Ion Ratio Lower Upper
76 100
78 33.1 26.5 39.7



#58
2-Chloroethyl Vinyl ether
Concen: 271.745 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 63 Resp: 342592
Ion Ratio Lower Upper
63 100
106 28.5 22.8 34.2

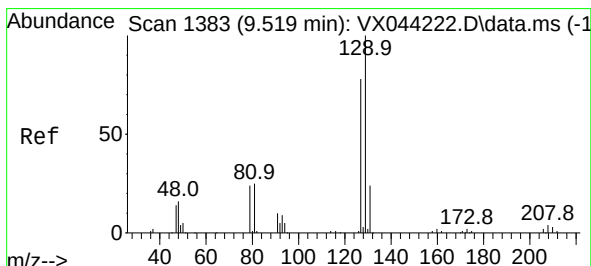
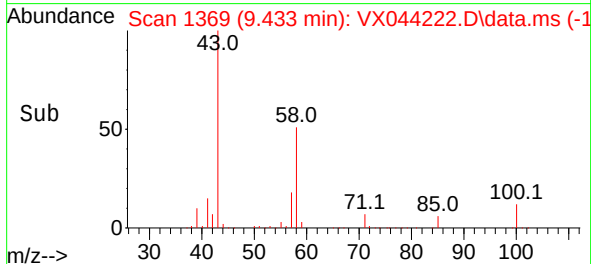
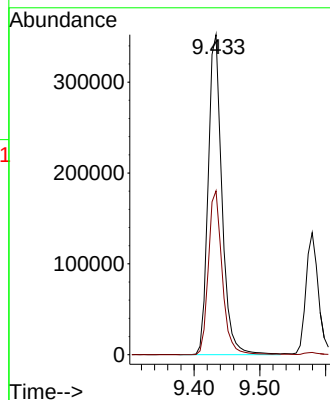
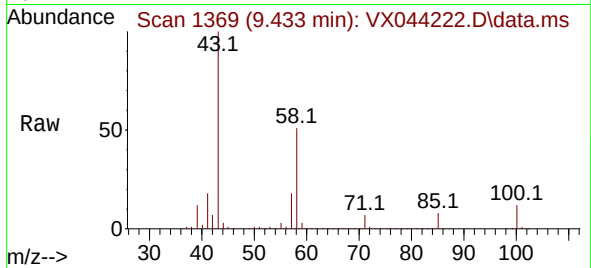




#59
2-Hexanone
Concen: 272.881 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

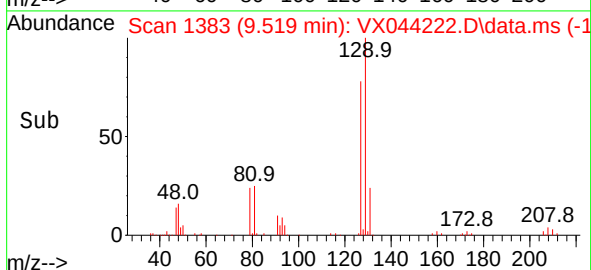
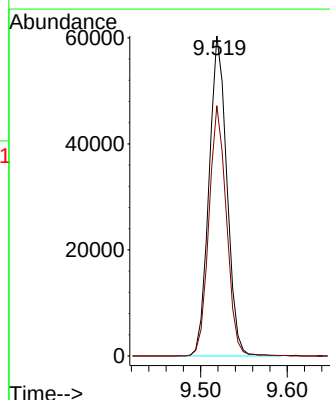
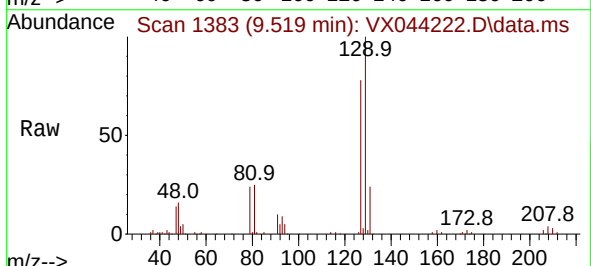
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

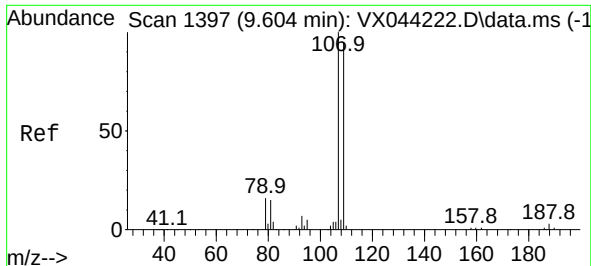
Tgt Ion: 43 Resp: 512906
Ion Ratio Lower Upper
43 100
58 51.3 25.7 77.0



#60
Dibromochloromethane
Concen: 51.400 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 129 Resp: 86352
Ion Ratio Lower Upper
129 100
127 76.9 38.5 115.3





#61

1,2-Dibromoethane

Concen: 53.454 ug/l

RT: 9.604 min Scan# 1397

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

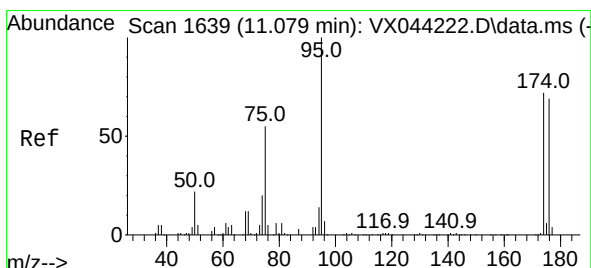
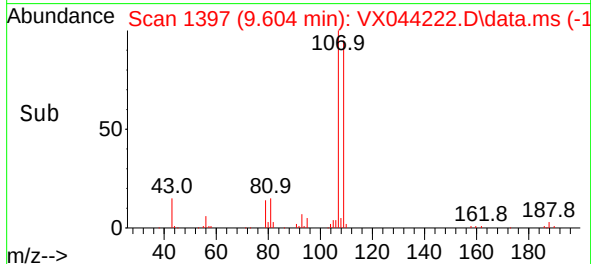
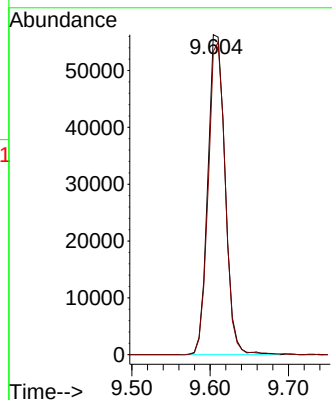
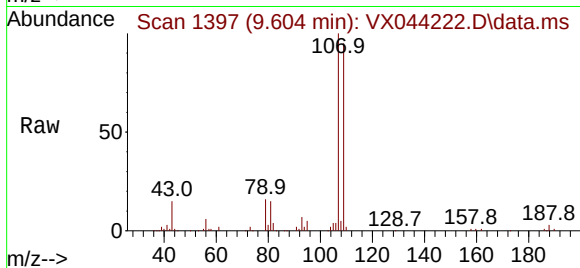
VSTDICCC050

Tgt Ion:107 Resp: 86150

Ion Ratio Lower Upper

107 100

109 96.2 77.0 115.4



#62

4-Bromofluorobenzene

Concen: 54.123 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

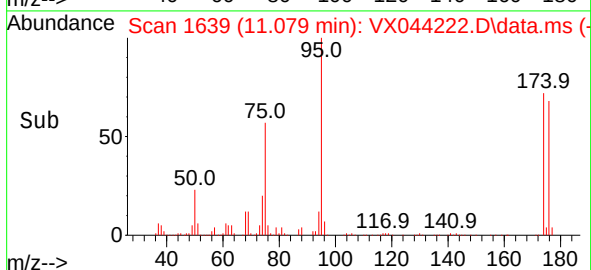
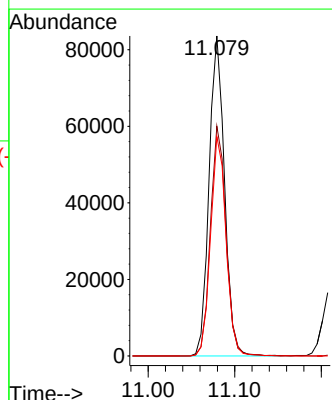
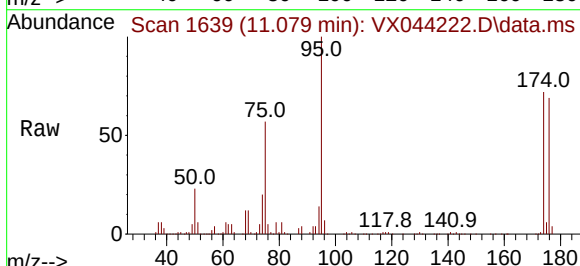
Tgt Ion: 95 Resp: 103178

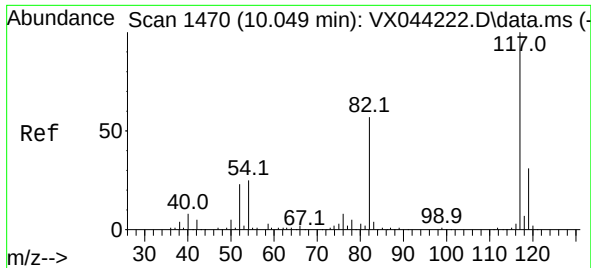
Ion Ratio Lower Upper

95 100

174 72.9 0.0 145.8

176 68.9 0.0 137.8

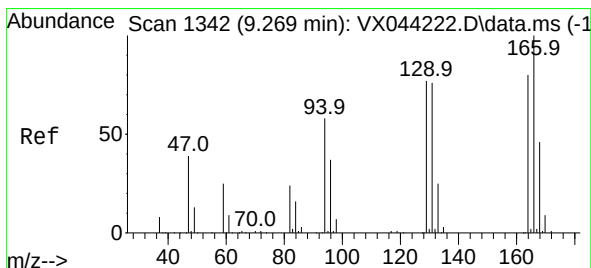
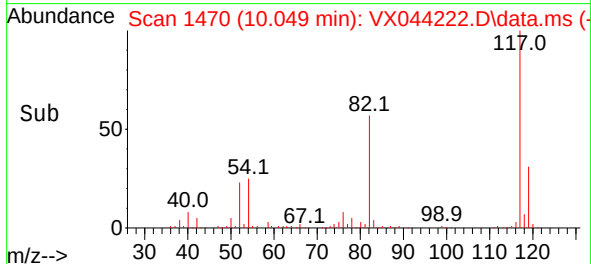
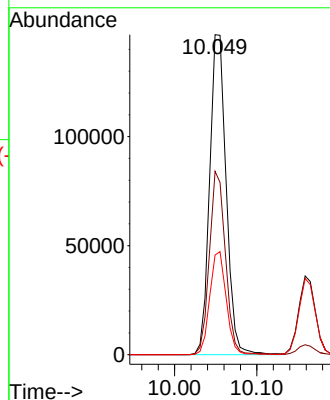
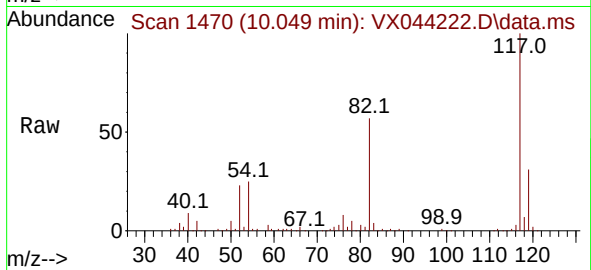




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

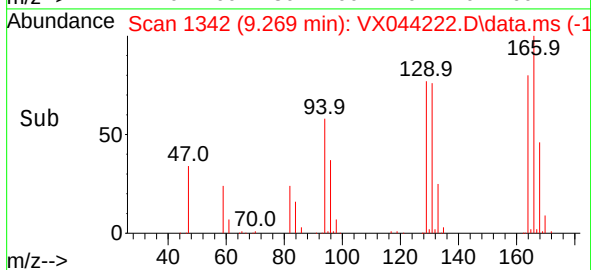
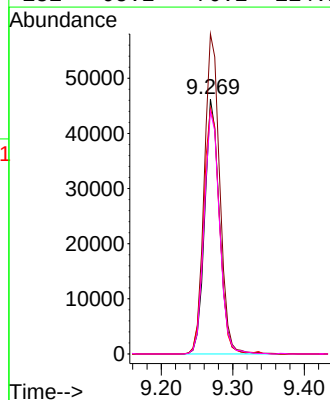
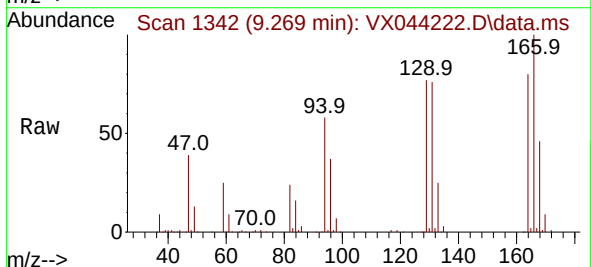
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

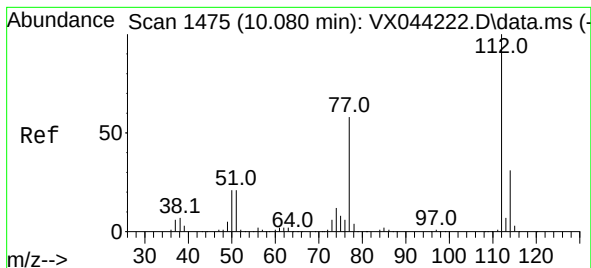
Tgt Ion:117 Resp: 205196
Ion Ratio Lower Upper
117 100
82 57.3 45.8 68.8
119 31.2 25.0 37.4



#64
Tetrachloroethene
Concen: 48.379 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:164 Resp: 65888
Ion Ratio Lower Upper
164 100
166 125.5 100.4 150.6
129 96.5 77.2 115.8
131 95.2 76.2 114.2

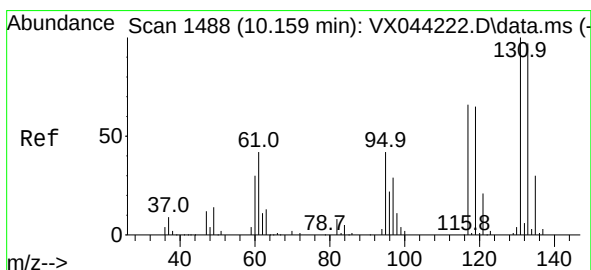
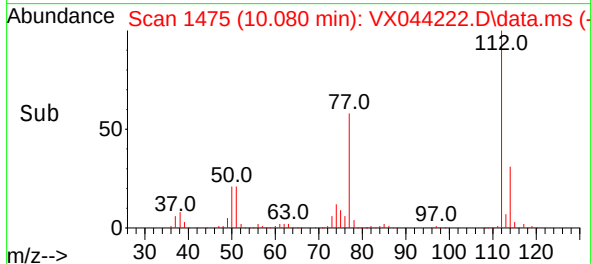
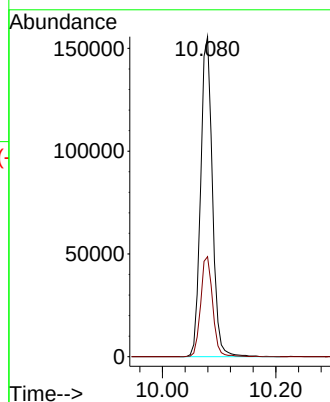
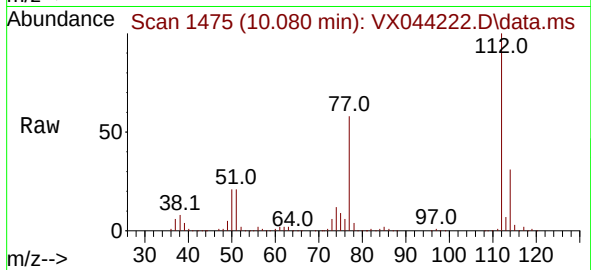




#65
Chlorobenzene
Concen: 50.779 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

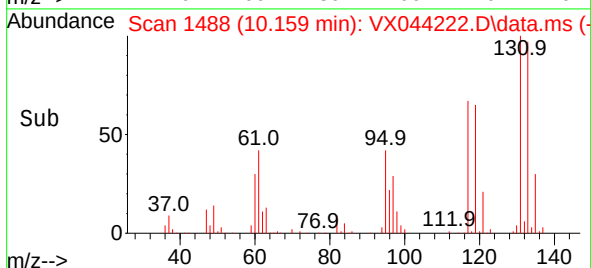
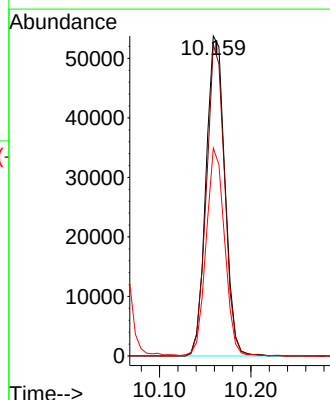
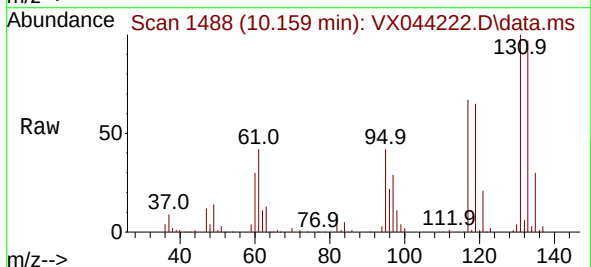
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

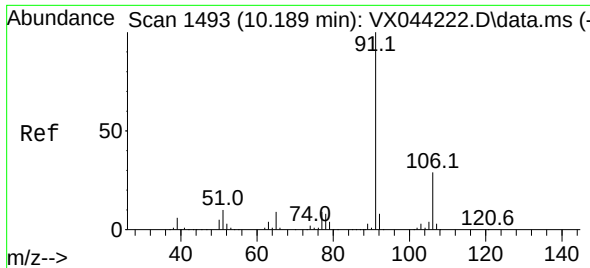
Tgt Ion:112 Resp: 223269
Ion Ratio Lower Upper
112 100
114 31.3 25.0 37.6



#66
1,1,1,2-Tetrachloroethane
Concen: 54.396 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:131 Resp: 76867
Ion Ratio Lower Upper
131 100
133 94.5 47.3 141.8
119 63.3 31.6 95.0





#67

Ethyl Benzene

Concen: 52.050 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

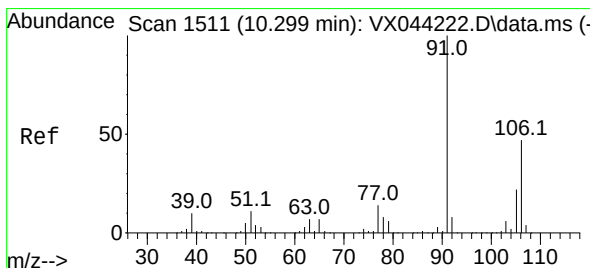
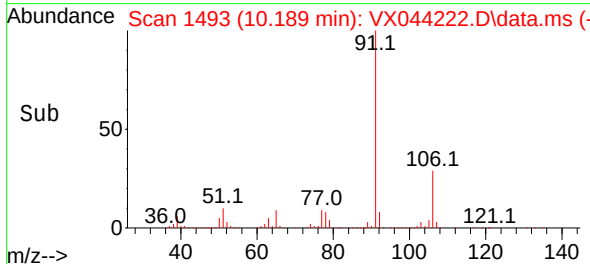
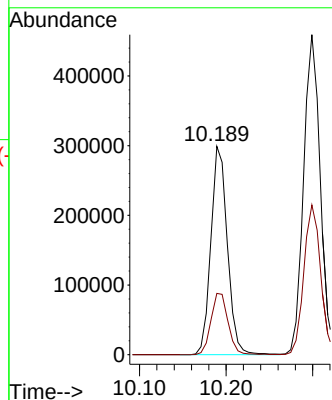
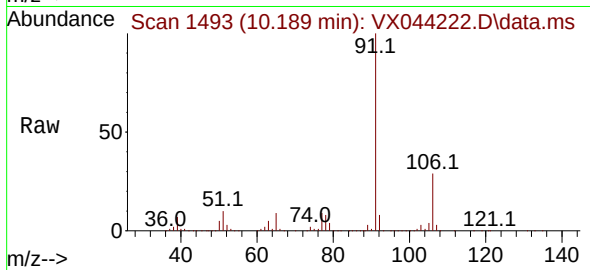
VSTDICCC050

Tgt Ion: 91 Resp: 395430

Ion Ratio Lower Upper

91 100

106 29.4 23.5 35.3



#68

m/p-Xylenes

Concen: 104.094 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX044222.D

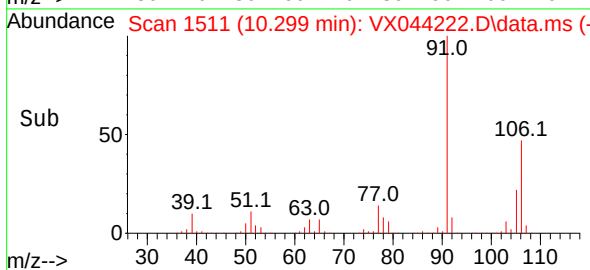
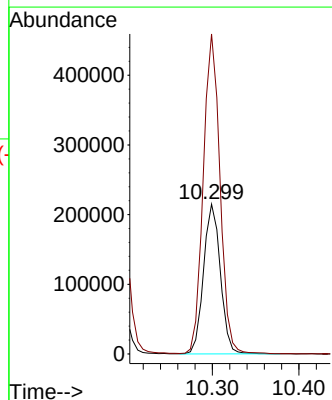
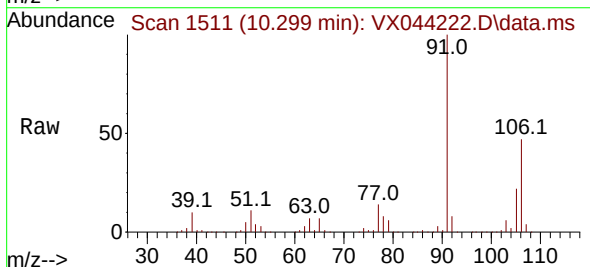
Acq: 11 Dec 2024 12:14

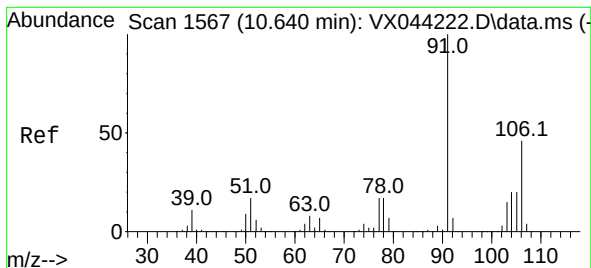
Tgt Ion:106 Resp: 290181

Ion Ratio Lower Upper

106 100

91 212.7 170.2 255.2

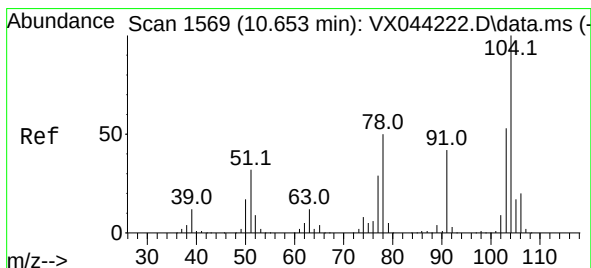
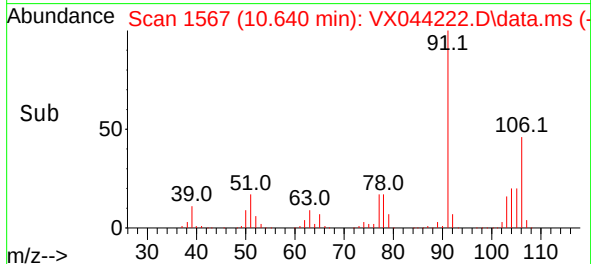
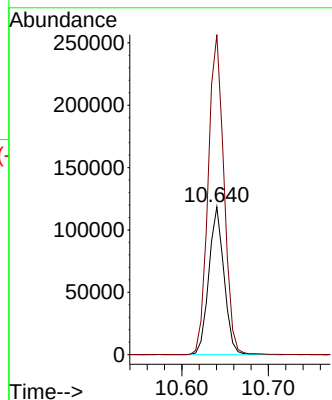
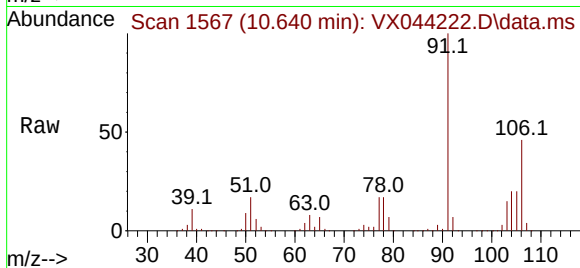




#69
o-Xylene
Concen: 51.141 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

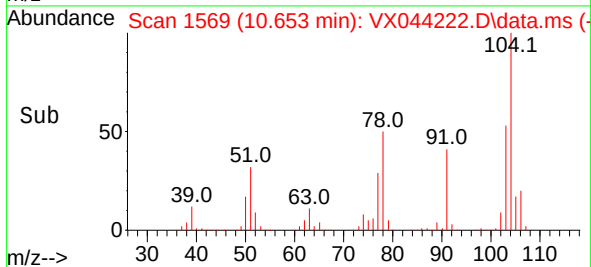
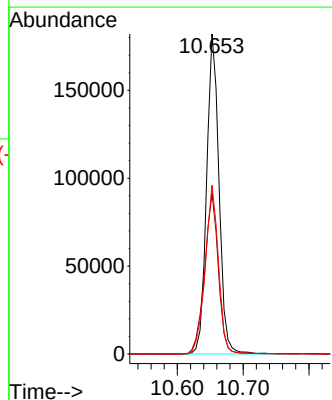
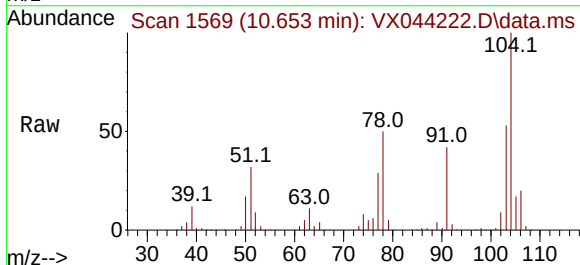
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

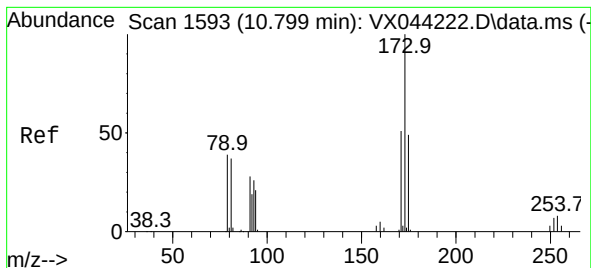
Tgt Ion:106 Resp: 144247
Ion Ratio Lower Upper
106 100
91 224.7 112.3 337.0



#70
Styrene
Concen: 52.719 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:104 Resp: 238379
Ion Ratio Lower Upper
104 100
78 55.8 44.6 67.0
103 56.7 45.4 68.0





#71

Bromoform

Concen: 51.158 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

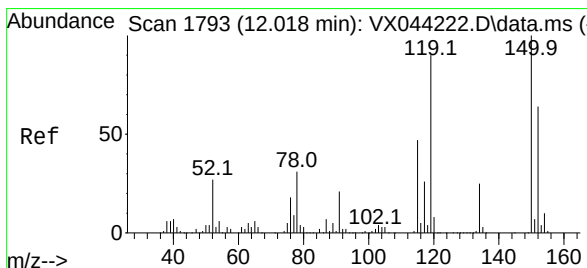
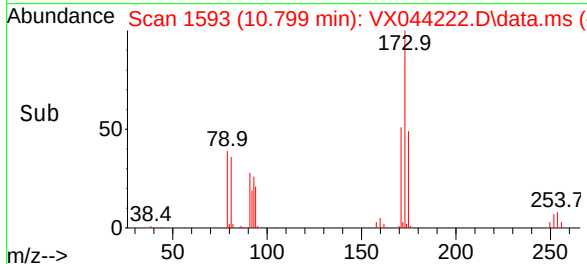
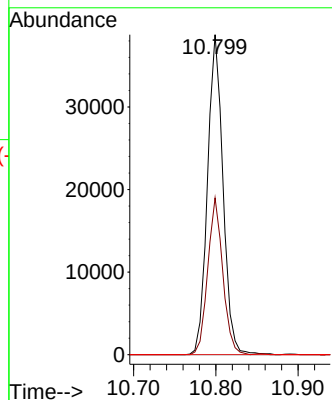
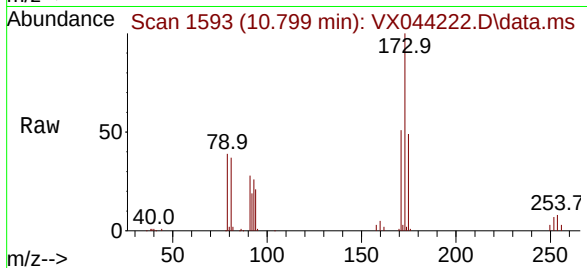
Tgt Ion:173 Resp: 50667

Ion Ratio Lower Upper

173 100

175 47.6 23.8 71.4

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

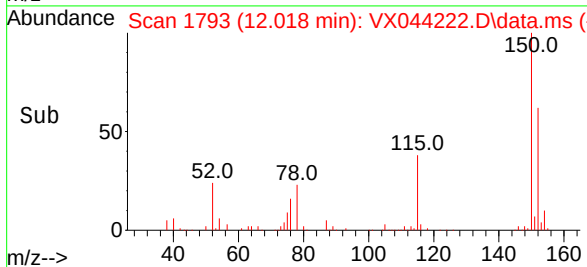
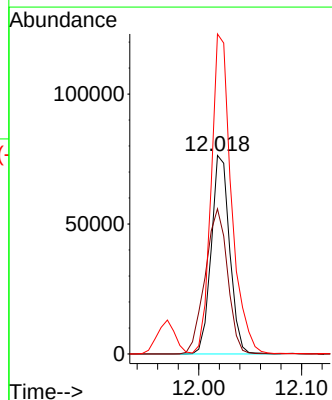
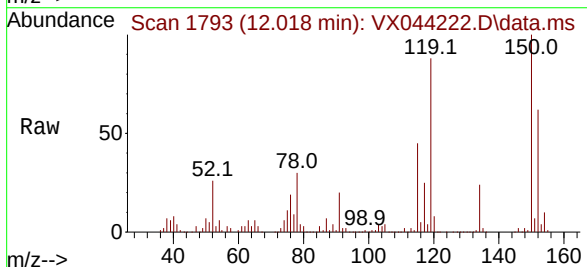
Tgt Ion:152 Resp: 95227

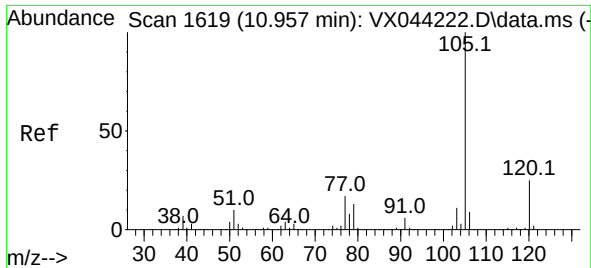
Ion Ratio Lower Upper

152 100

115 88.9 44.5 133.3

150 176.9 0.0 353.8

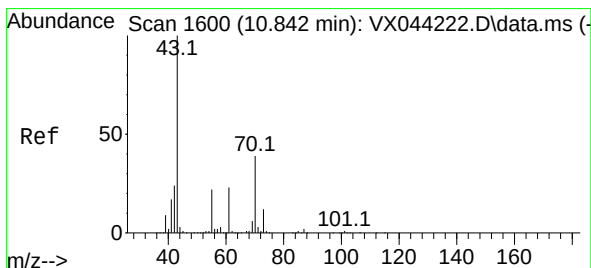
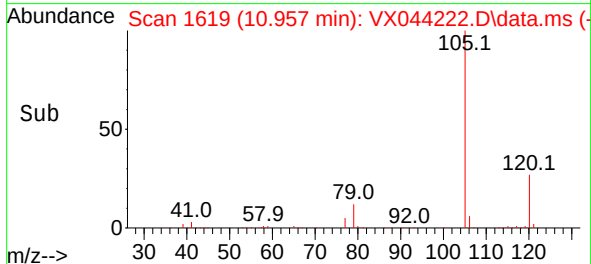
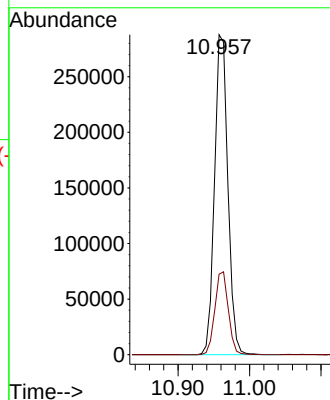
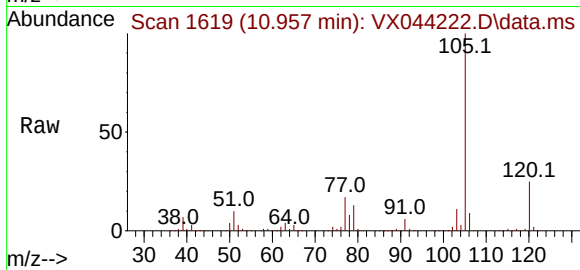




#73
Isopropylbenzene
Concen: 51.100 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

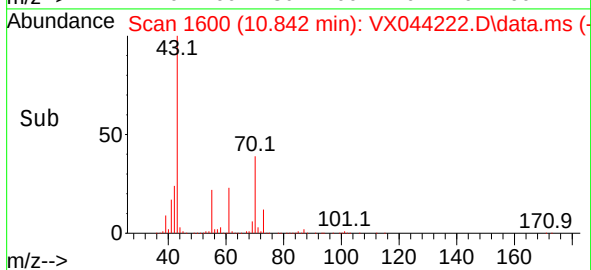
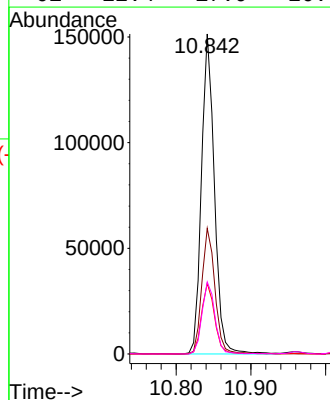
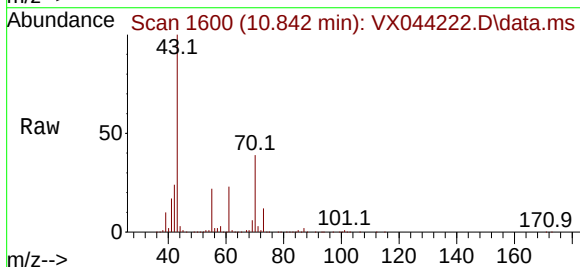
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

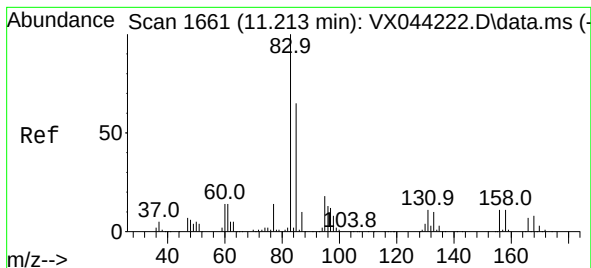
Tgt Ion:105 Resp: 372519
Ion Ratio Lower Upper
105 100
120 26.2 13.1 39.3



#74
N-ethyl acetate
Concen: 54.166 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 182491
Ion Ratio Lower Upper
43 100
70 39.9 31.9 47.9
55 22.4 17.9 26.9
61 22.4 17.9 26.9





#75

1,1,2,2-Tetrachloroethane

Concen: 50.233 ug/l

RT: 11.213 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

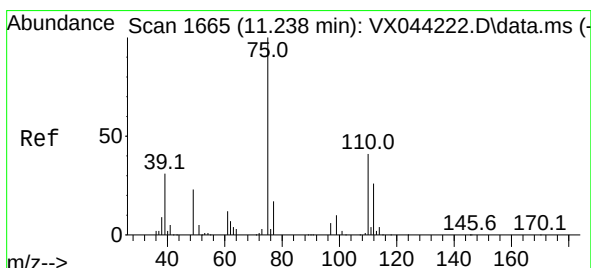
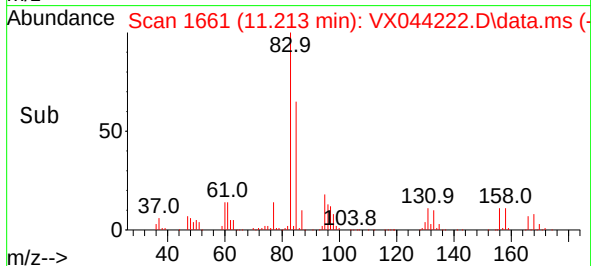
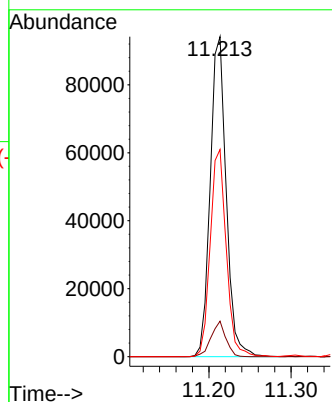
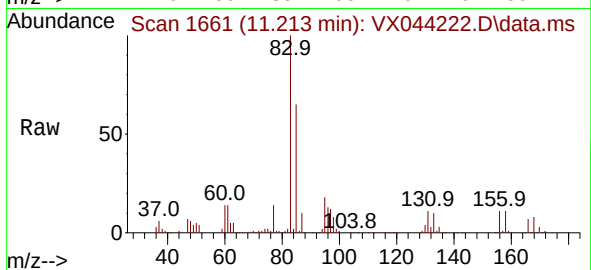
Tgt Ion: 83 Resp: 127193

Ion Ratio Lower Upper

83 100

131 10.3 5.1 15.4

85 64.9 32.5 97.4



#76

1,2,3-Trichloropropane

Concen: 64.698 ug/l

RT: 11.238 min Scan# 1665

Delta R.T. 0.000 min

Lab File: VX044222.D

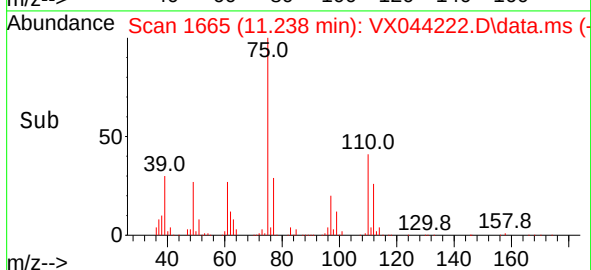
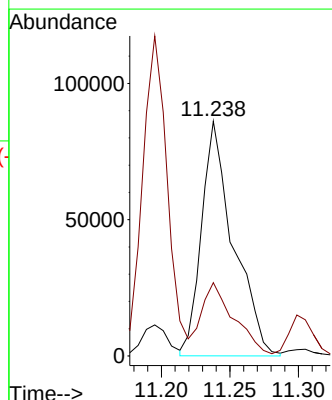
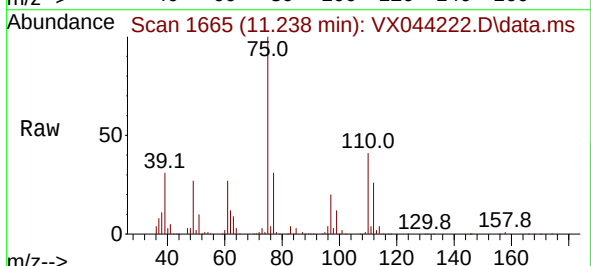
Acq: 11 Dec 2024 12:14

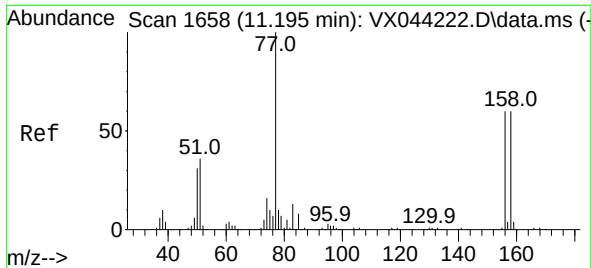
Tgt Ion: 75 Resp: 139805

Ion Ratio Lower Upper

75 100

77 32.0 20.9 62.7

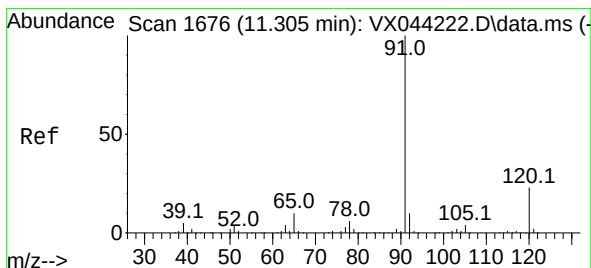
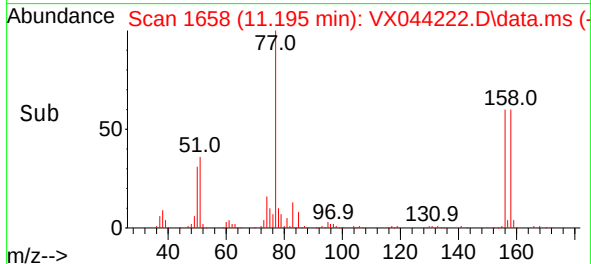
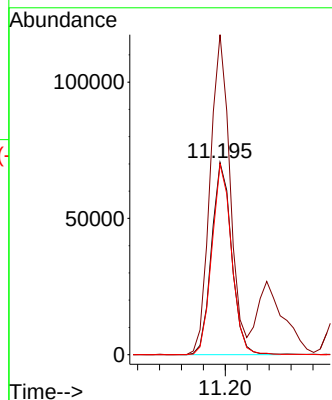
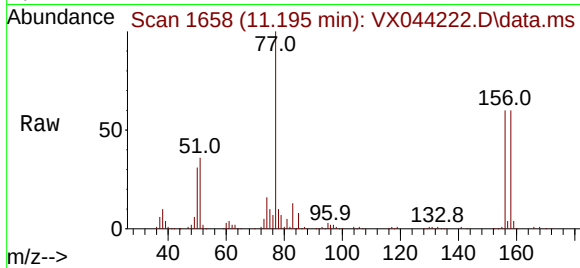




#77
Bromobenzene
Concen: 50.734 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

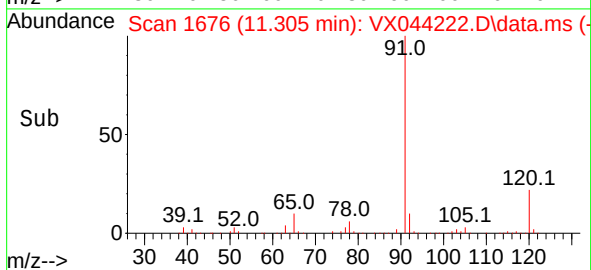
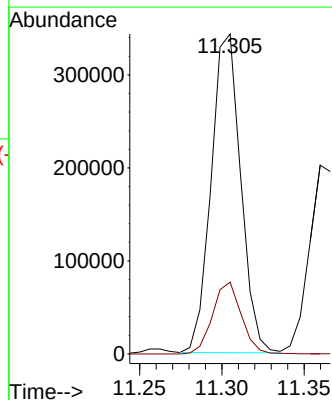
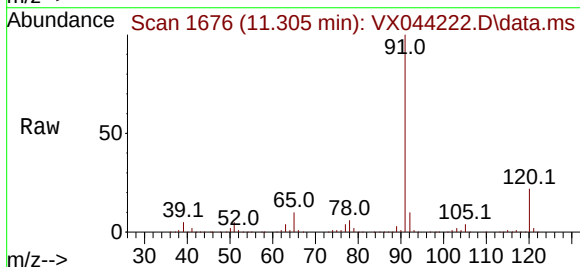
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

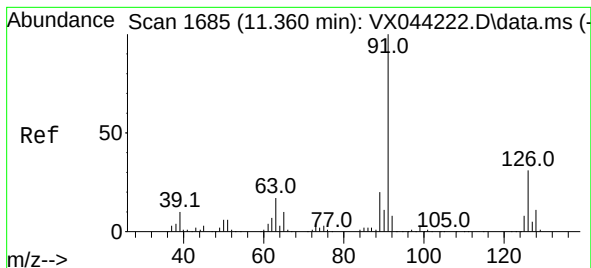
Tgt Ion:156 Resp: 89687
Ion Ratio Lower Upper
156 100
77 165.2 82.6 247.8
158 97.6 48.8 146.4



#78
n-propylbenzene
Concen: 53.211 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 91 Resp: 428741
Ion Ratio Lower Upper
91 100
120 22.0 11.0 33.0





#79

2-Chlorotoluene

Concen: 50.634 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

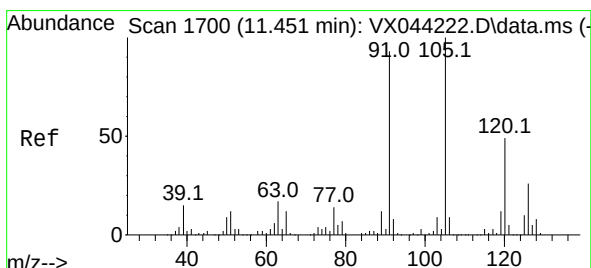
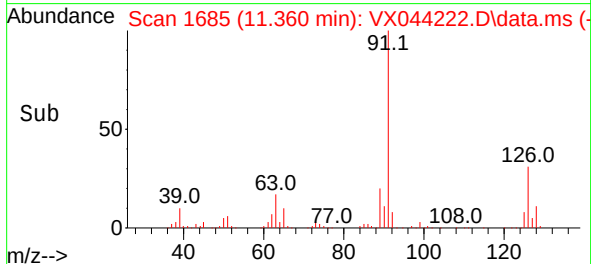
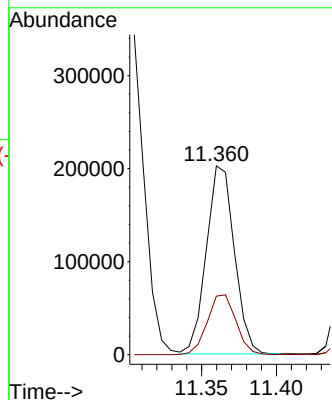
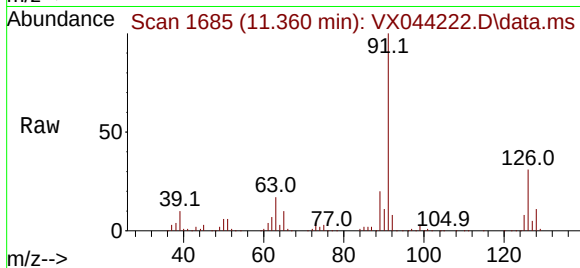
VSTDICCC050

Tgt Ion: 91 Resp: 263849

Ion Ratio Lower Upper

91 100

126 32.7 16.4 49.1



#80

1,3,5-Trimethylbenzene

Concen: 52.102 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX044222.D

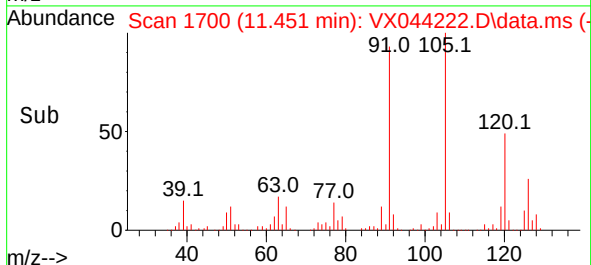
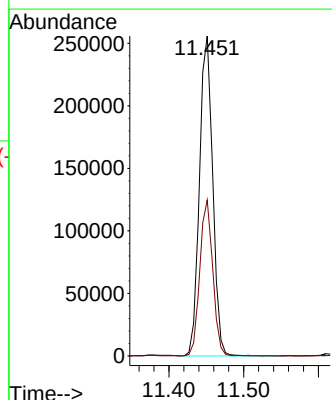
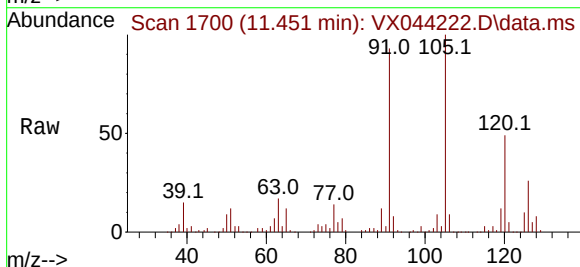
Acq: 11 Dec 2024 12:14

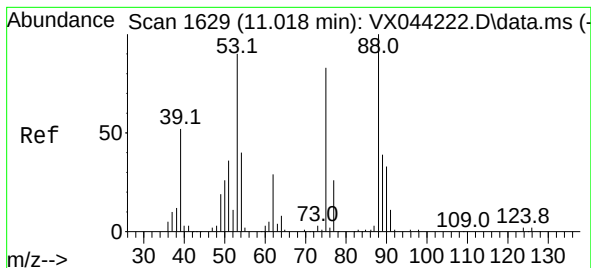
Tgt Ion:105 Resp: 314986

Ion Ratio Lower Upper

105 100

120 47.6 23.8 71.4

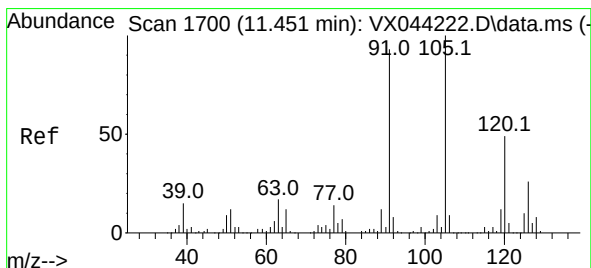
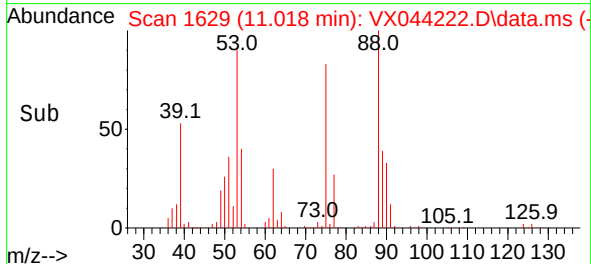
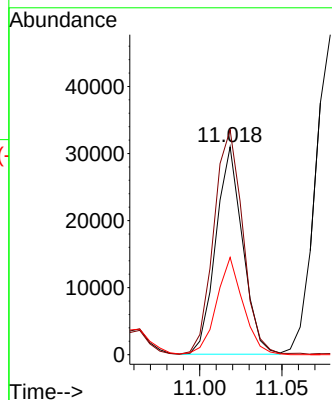
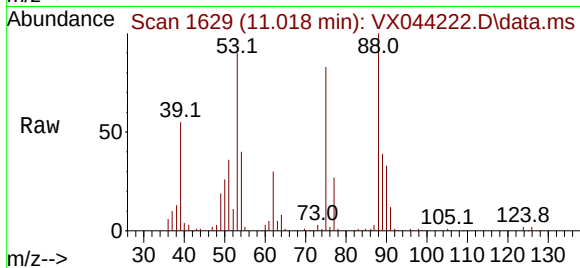




#81
trans-1,4-Dichloro-2-butene
Concen: 47.628 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

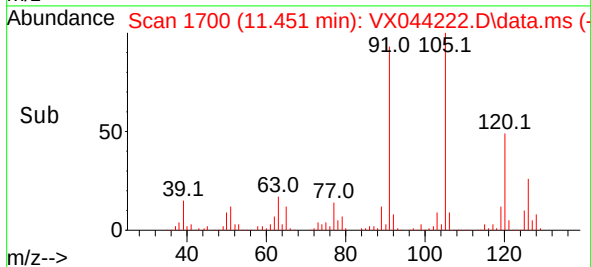
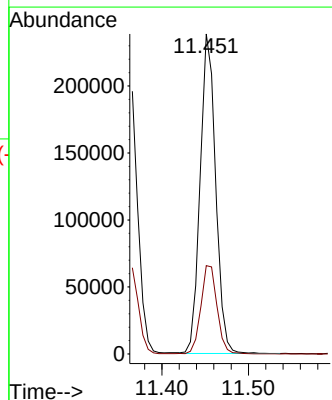
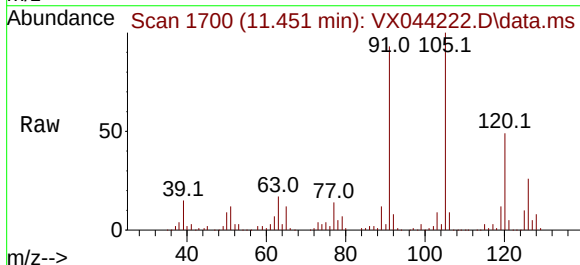
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

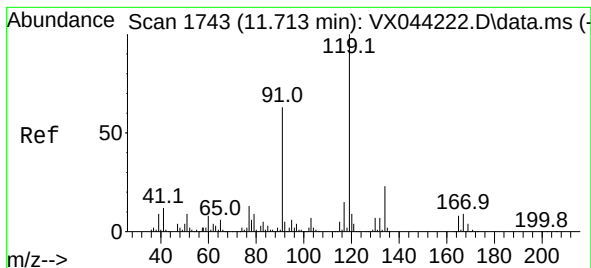
Tgt Ion:	75	Resp:	35119
Ion Ratio	Lower	Upper	
75	100		
53	117.0	93.6	140.4
89	46.6	37.3	55.9



#82
4-Chlorotoluene
Concen: 51.387 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:	91	Resp:	296520
Ion Ratio	Lower	Upper	
91	100		
126	29.0	14.5	43.5





#83

tert-Butylbenzene

Concen: 51.940 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

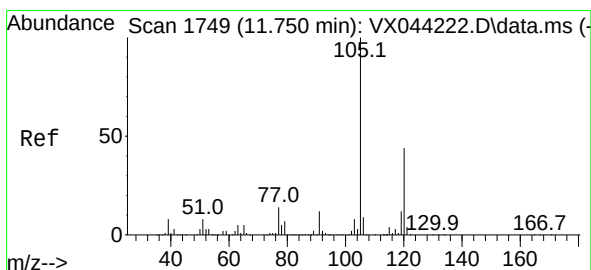
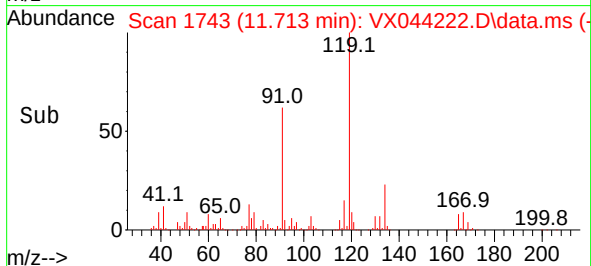
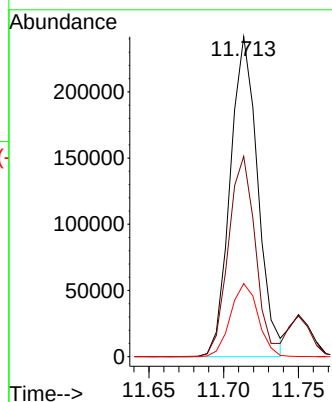
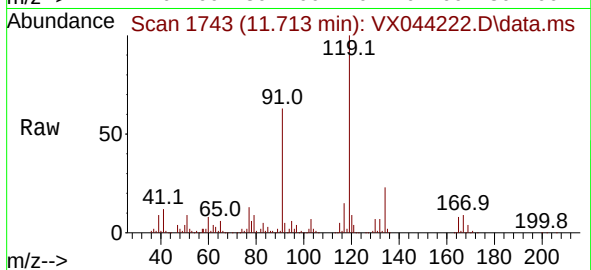
Tgt Ion:119 Resp: 310320

Ion Ratio Lower Upper

119 100

91 61.7 30.9 92.5

134 22.9 11.5 34.4



#84

1,2,4-Trimethylbenzene

Concen: 52.776 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX044222.D

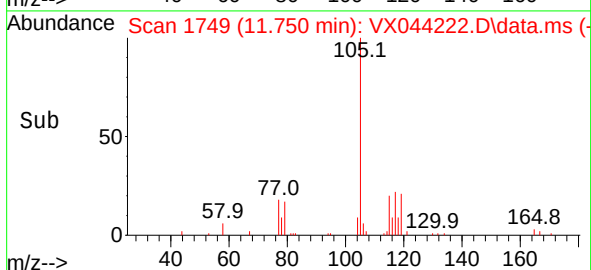
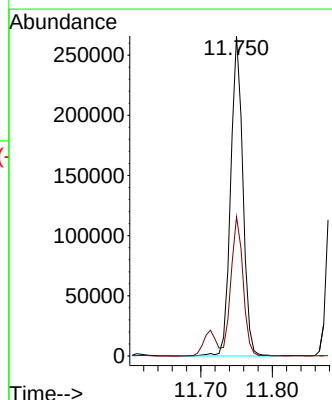
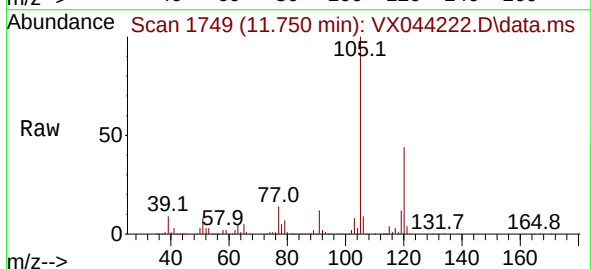
Acq: 11 Dec 2024 12:14

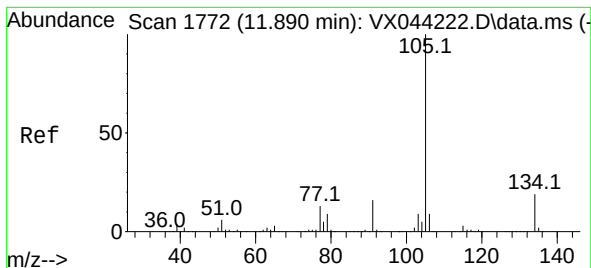
Tgt Ion:105 Resp: 313338

Ion Ratio Lower Upper

105 100

120 43.4 21.7 65.1





#85

sec-Butylbenzene

Concen: 52.329 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

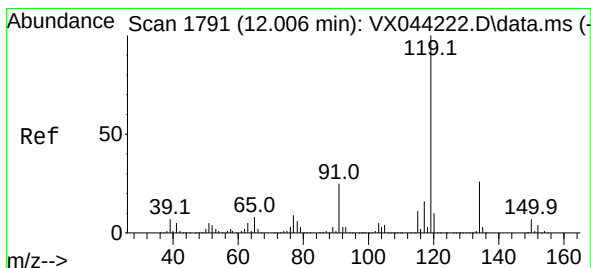
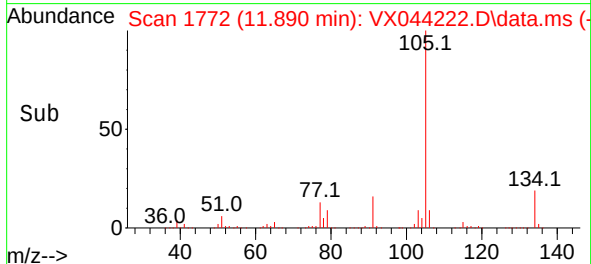
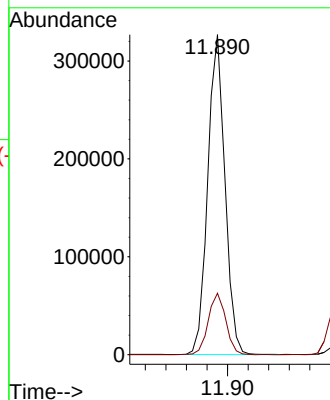
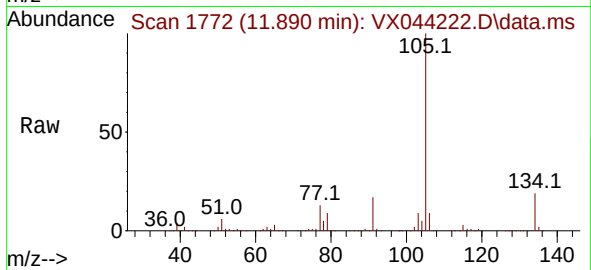
VSTDICCC050

Tgt Ion:105 Resp: 379552

Ion Ratio Lower Upper

105 100

134 19.6 9.8 29.4



#86

p-Isopropyltoluene

Concen: 52.796 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

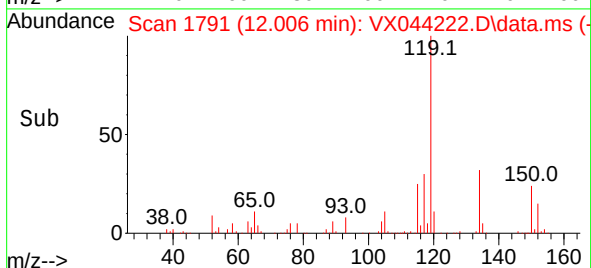
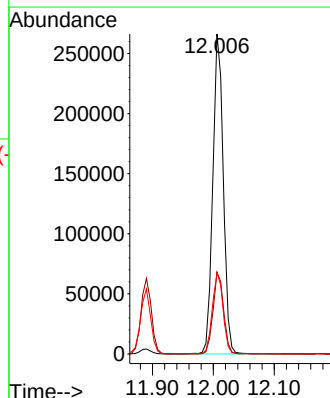
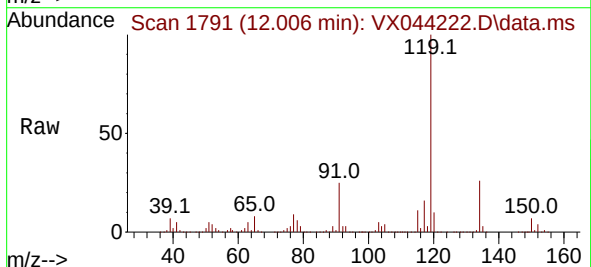
Tgt Ion:119 Resp: 318721

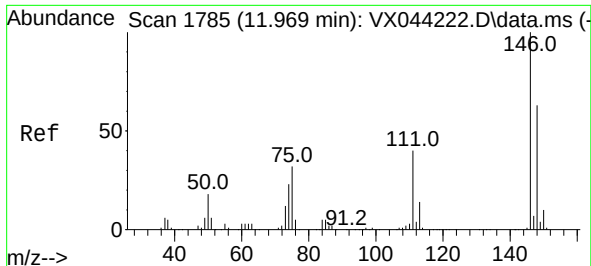
Ion Ratio Lower Upper

119 100

134 25.6 12.8 38.4

91 26.0 13.0 39.0





#87

1,3-Dichlorobenzene

Concen: 51.887 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

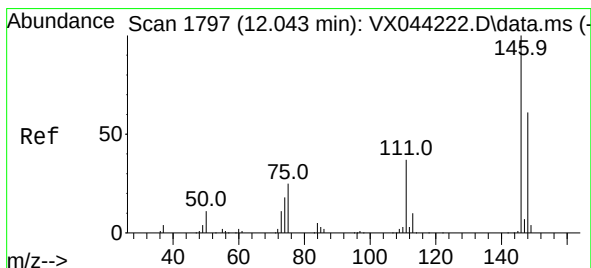
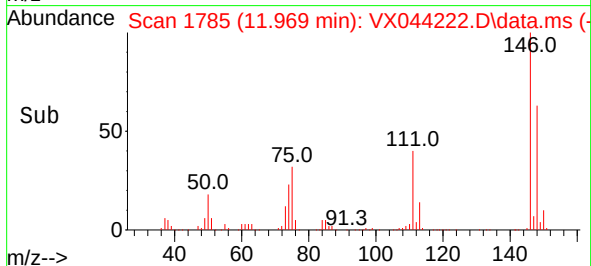
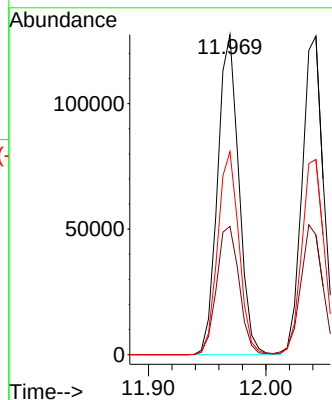
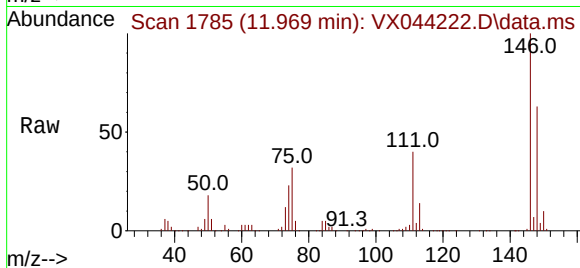
Tgt Ion:146 Resp: 160223

Ion Ratio Lower Upper

146 100

111 42.8 21.4 64.2

148 63.4 31.7 95.1



#88

1,4-Dichlorobenzene

Concen: 50.171 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

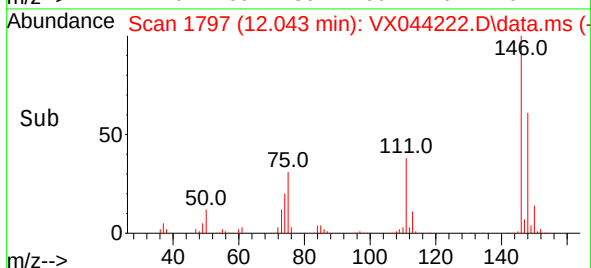
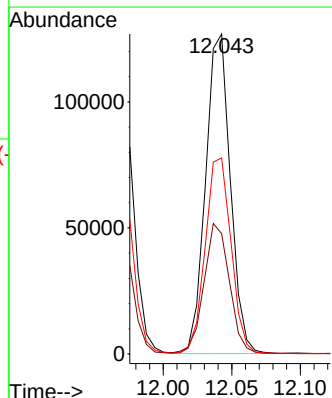
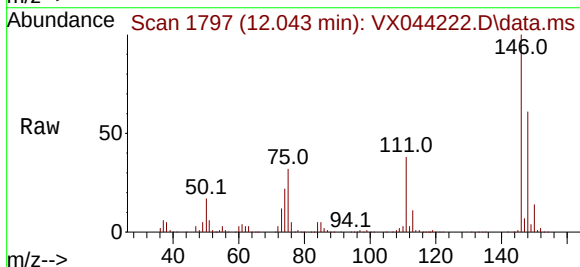
Tgt Ion:146 Resp: 159258

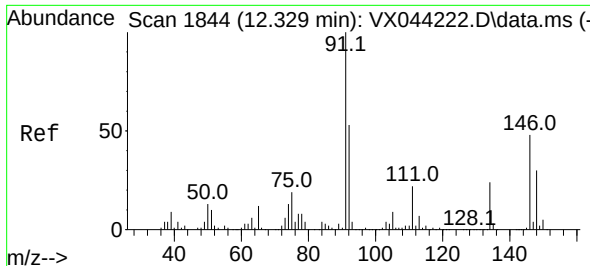
Ion Ratio Lower Upper

146 100

111 42.0 21.0 63.0

148 64.5 32.3 96.8





#89

n-Butylbenzene

Concen: 53.354 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

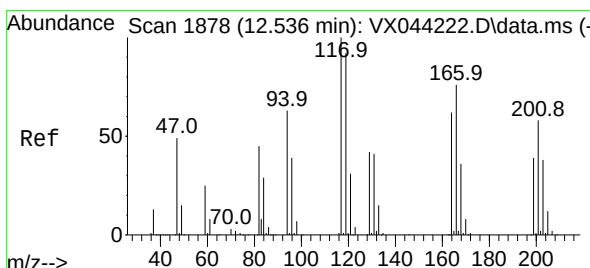
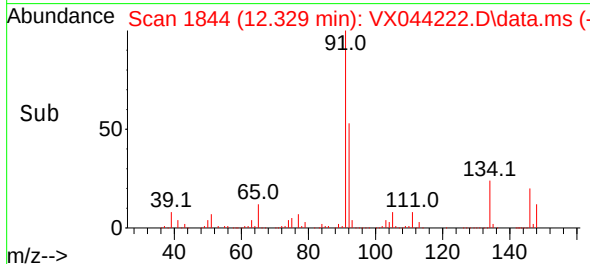
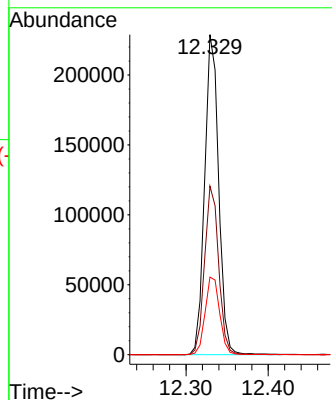
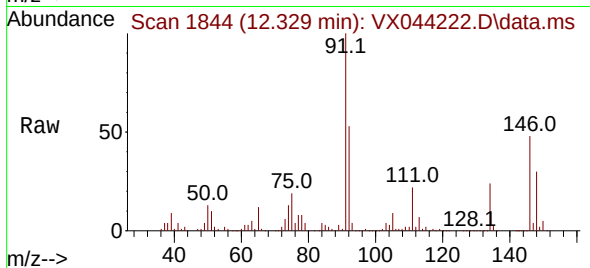
Tgt Ion: 91 Resp: 270840

Ion Ratio Lower Upper

91 100

92 53.1 26.6 79.7

134 25.2 12.6 37.8



#90

Hexachloroethane

Concen: 54.813 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX044222.D

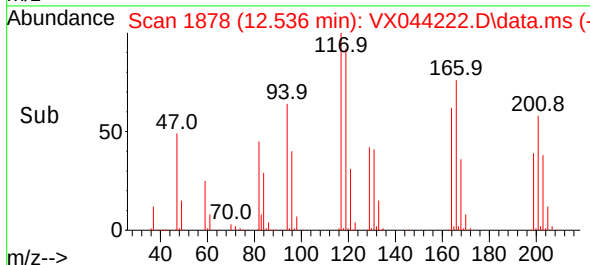
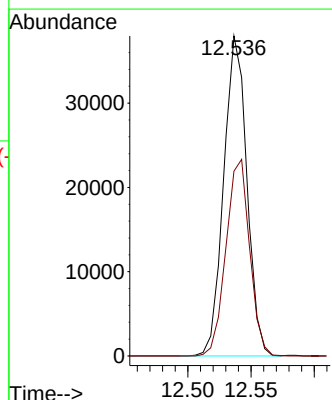
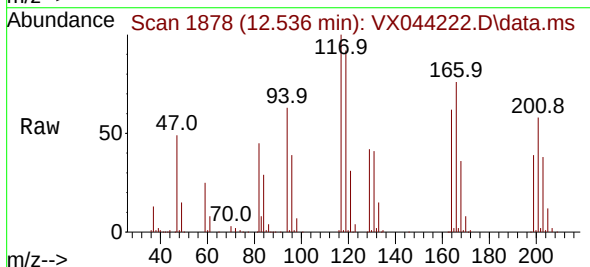
Acq: 11 Dec 2024 12:14

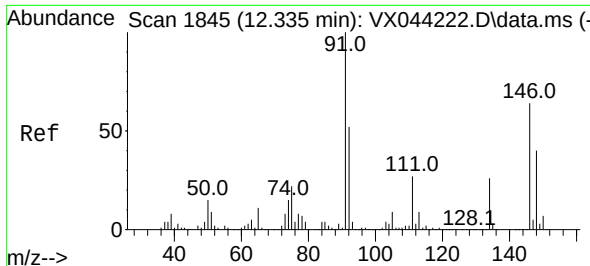
Tgt Ion: 117 Resp: 48303

Ion Ratio Lower Upper

117 100

201 62.8 31.4 94.2





#91

1,2-Dichlorobenzene

Concen: 51.256 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

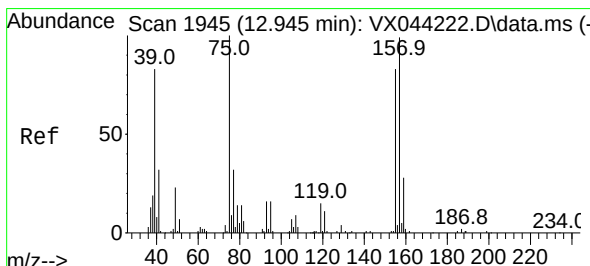
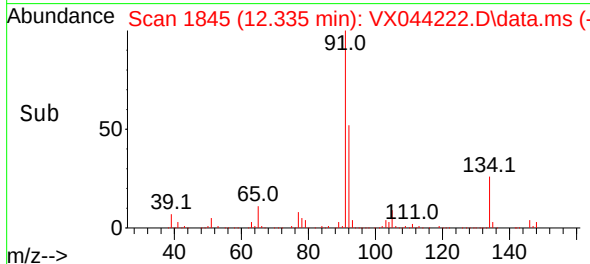
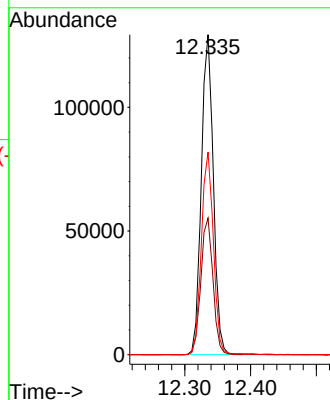
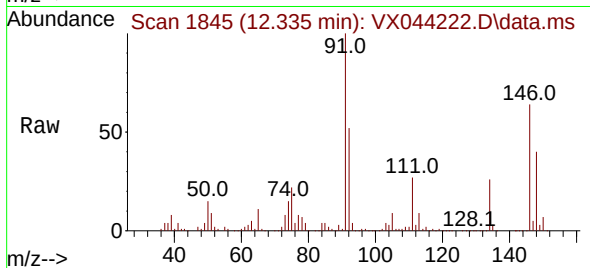
Tgt Ion:146 Resp: 164342

Ion Ratio Lower Upper

146 100

111 42.9 21.4 64.3

148 63.3 31.6 95.0



#92

1,2-Dibromo-3-Chloropropane

Concen: 52.951 ug/l

RT: 12.945 min Scan# 1945

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

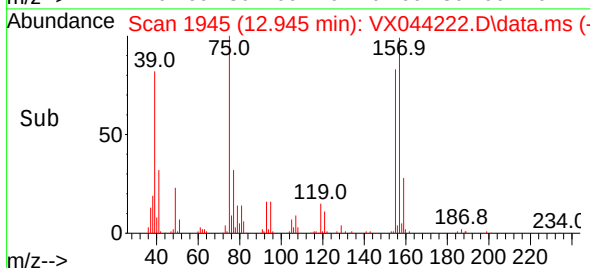
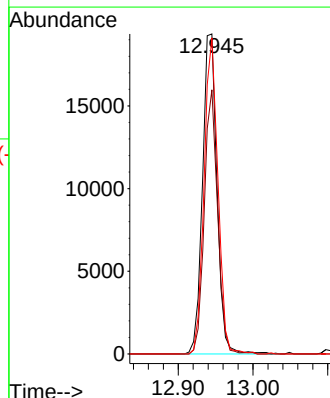
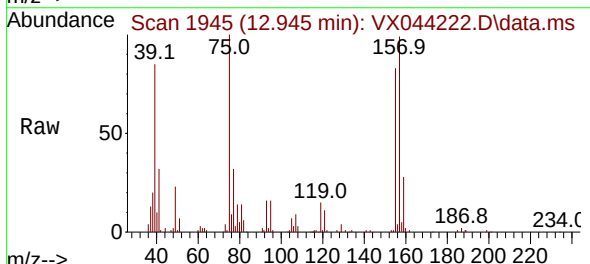
Tgt Ion: 75 Resp: 26027

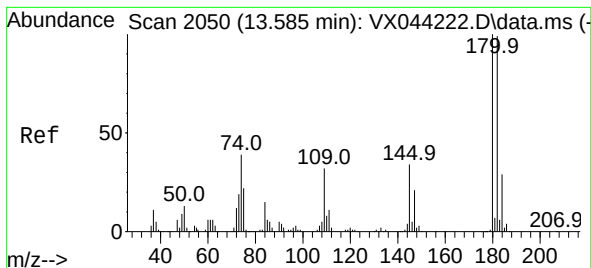
Ion Ratio Lower Upper

75 100

155 76.2 38.1 114.3

157 94.4 47.2 141.6





#93

1,2,4-Trichlorobenzene

Concen: 53.005 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

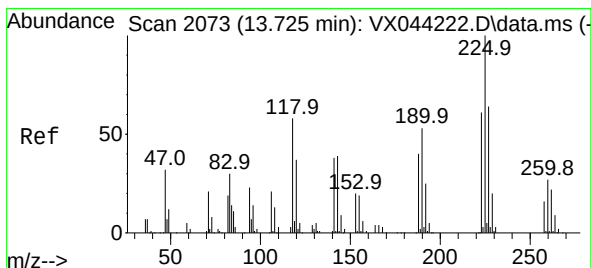
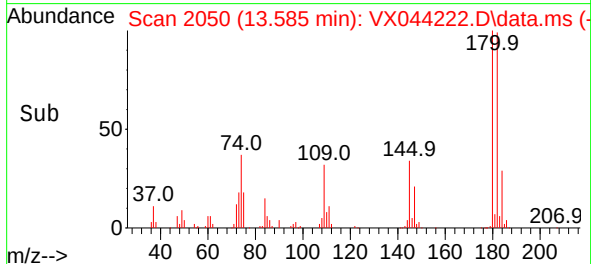
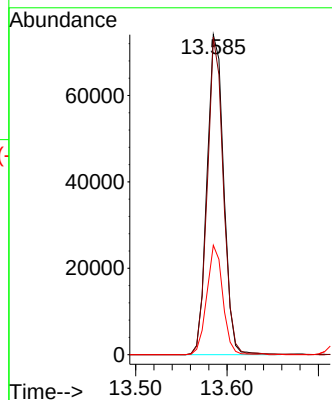
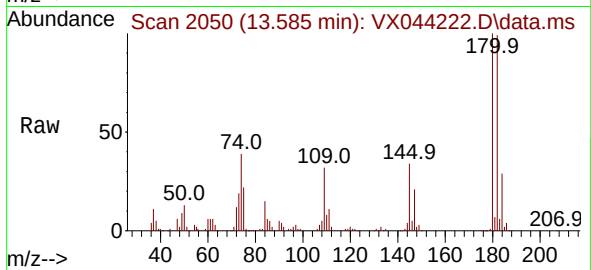
Tgt Ion:180 Resp: 93173

Ion Ratio Lower Upper

180 100

182 96.1 48.0 144.2

145 33.1 16.6 49.7



#94

Hexachlorobutadiene

Concen: 49.744 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX044222.D

Acq: 11 Dec 2024 12:14

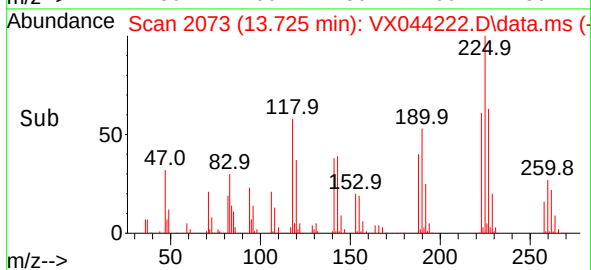
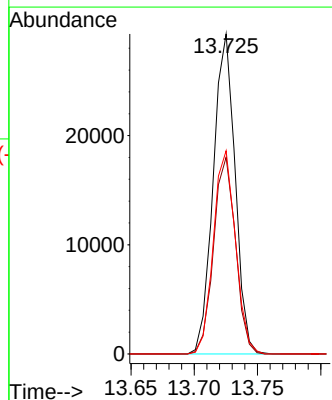
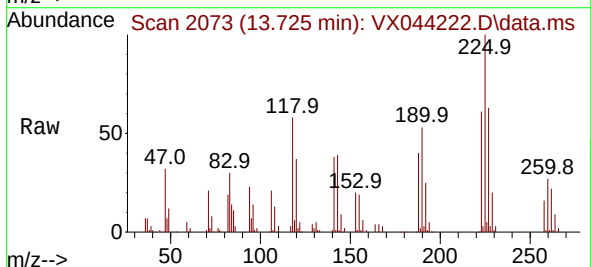
Tgt Ion:225 Resp: 35172

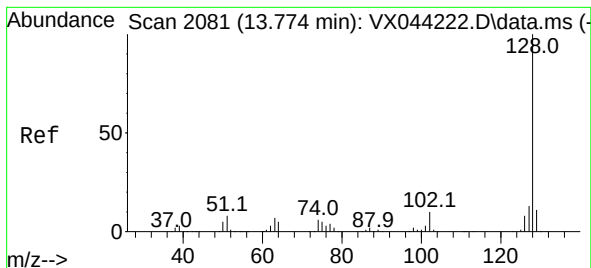
Ion Ratio Lower Upper

225 100

223 61.6 30.8 92.4

227 64.2 32.1 96.3

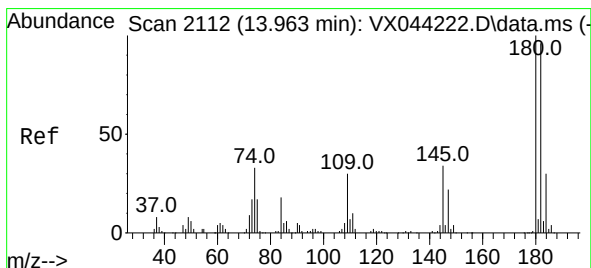
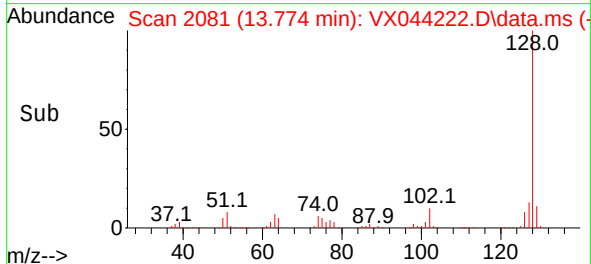
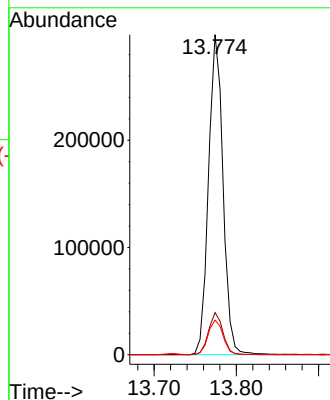
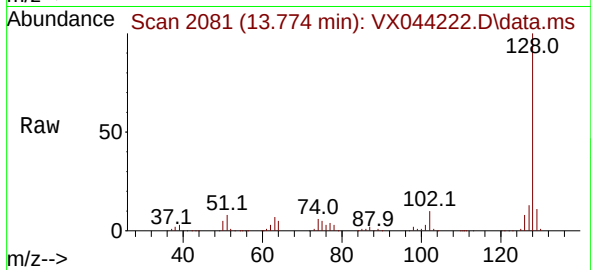




#95
Naphthalene
Concen: 53.230 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

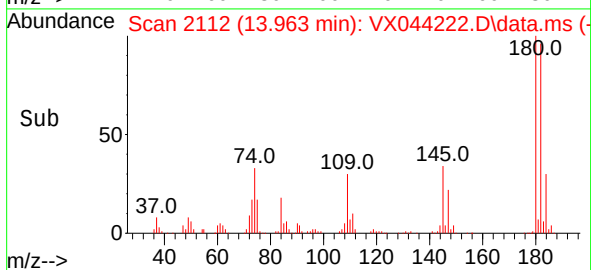
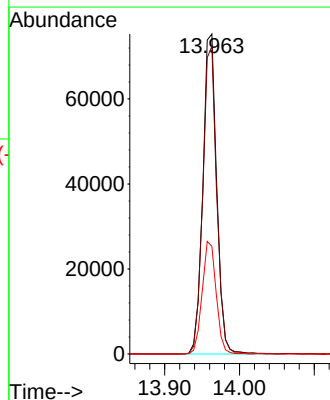
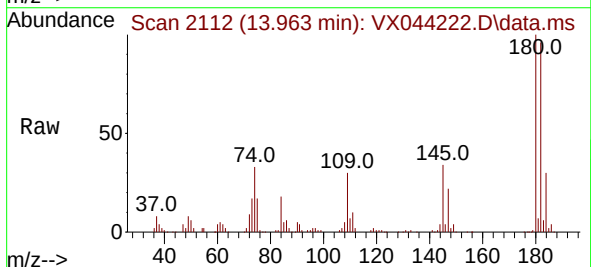
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 365234
Ion Ratio Lower Upper
128 100
127 13.1 10.5 15.7
129 11.2 9.0 13.4



#96
1,2,3-Trichlorobenzene
Concen: 52.027 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:180 Resp: 97000
Ion Ratio Lower Upper
180 100
182 96.0 48.0 144.0
145 35.4 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044223.D
 Acq On : 11 Dec 2024 12:37
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Quant Time: Dec 12 04:15:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:11:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	130101	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	235738	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	209164	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	97670	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	224292	98.326	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 196.660%#	
35) Dibromofluoromethane	5.379	113	169582	103.866	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 207.740%#	
50) Toluene-d8	8.647	98	579477	105.201	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 210.400%#	
62) 4-Bromofluorobenzene	11.079	95	203694	105.830	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 211.660%#	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.167	85	193785	96.329	ug/l 97
3) Chloromethane	1.295	50	186167	96.774	ug/l 99
4) Vinyl Chloride	1.374	62	187739	93.675	ug/l 99
5) Bromomethane	1.593	94	137770	96.897	ug/l 97
6) Chloroethane	1.660	64	109912	88.074	ug/l 95
7) Trichlorofluoromethane	1.862	101	384622	98.030	ug/l 98
8) Diethyl Ether	2.136	74	124039	92.618	ug/l 100
9) 1,1,2-Trichlorotrifluo...	2.313	101	149151	93.944	ug/l 99
10) Methyl Iodide	2.441	142	203545	97.275	ug/l 100
11) Tert butyl alcohol	3.008	59	173139	539.406	ug/l 100
12) 1,1-Dichloroethene	2.307	96	144268	98.930	ug/l 100
13) Acrolein	2.240	56	226037	485.718	ug/l 99
14) Allyl chloride	2.654	41	244602	100.703	ug/l 99
15) Acrylonitrile	3.069	53	446747	501.661	ug/l 99
16) Acetone	2.392	43	452955	487.065	ug/l 97
17) Carbon Disulfide	2.496	76	320036	115.453	ug/l 99
18) Methyl Acetate	2.709	43	230998	96.338	ug/l 97
19) Methyl tert-butyl Ether	3.117	73	564545	99.205	ug/l 99
20) Methylene Chloride	2.782	84	168498	96.466	ug/l 97
21) trans-1,2-Dichloroethene	3.081	96	154797	99.880	ug/l 98
22) Diisopropyl ether	3.764	45	538742	98.498	ug/l 99
23) Vinyl Acetate	3.721	43	2395923	538.801	ug/l 100
24) 1,1-Dichloroethane	3.605	63	304626	99.915	ug/l 99
25) 2-Butanone	4.568	43	662768	501.306	ug/l 99
26) 2,2-Dichloropropane	4.471	77	258092	104.201	ug/l 99
27) cis-1,2-Dichloroethene	4.483	96	190127	96.593	ug/l 99
28) Bromochloromethane	4.891	49	144783	96.842	ug/l 99
29) Tetrahydrofuran	5.007	42	412666	486.290	ug/l 99
30) Chloroform	5.093	83	331047	96.642	ug/l 98
31) Cyclohexane	5.458	56	239879	97.433	ug/l 98
32) 1,1,1-Trichloroethane	5.379	97	291065	102.363	ug/l 99
36) 1,1-Dichloropropene	5.684	75	209732	99.376	ug/l 98
37) Ethyl Acetate	4.721	43	266307	102.079	ug/l 100
38) Carbon Tetrachloride	5.672	117	236869	104.249	ug/l 96
39) Methylcyclohexane	7.373	83	259368	102.800	ug/l 98
40) Benzene	6.032	78	638055	99.575	ug/l 100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044223.D
 Acq On : 11 Dec 2024 12:37
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Quant Time: Dec 12 04:15:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:11:59 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	140375	101.332	ug/l	99
42) 1,2-Dichloroethane	6.086	62	261991	99.255	ug/l	99
43) Isopropyl Acetate	6.342	43	427893	104.939	ug/l	99
44) Trichloroethene	7.123	130	158990	99.497	ug/l	99
45) 1,2-Dichloropropane	7.428	63	160913	98.293	ug/l	97
46) Dibromomethane	7.580	93	130316	102.607	ug/l	99
47) Bromodichloromethane	7.818	83	244401	111.423	ug/l	100
48) Methyl methacrylate	7.696	41	203116	102.618	ug/l	99
49) 1,4-Dioxane	7.665	88	61921	1830.521	ug/l #	80
51) 4-Methyl-2-Pentanone	8.574	43	1322678	504.496	ug/l	99
52) Toluene	8.714	92	396383	98.506	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	248092	99.321	ug/l	95
54) cis-1,3-Dichloropropene	8.366	75	263014	110.127	ug/l	98
55) 1,1,2-Trichloroethane	9.153	97	157366	98.441	ug/l	98
56) Ethyl methacrylate	9.116	69	271146	107.442	ug/l	99
57) 1,3-Dichloropropane	9.305	76	274642	98.704	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	671233	527.342	ug/l	100
59) 2-Hexanone	9.433	43	989466	521.401	ug/l	99
60) Dibromochloromethane	9.519	129	178135	99.480	ug/l	99
61) 1,2-Dibromoethane	9.610	107	171458	105.371	ug/l	97
64) Tetrachloroethene	9.269	164	130678	94.131	ug/l	97
65) Chlorobenzene	10.080	112	433179	96.650	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	153882	106.831	ug/l	99
67) Ethyl Benzene	10.195	91	765930	98.906	ug/l	97
68) m/p-Xylenes	10.299	106	571648	201.171	ug/l	99
69) o-Xylene	10.640	106	280603	97.597	ug/l	100
70) Styrene	10.653	104	480077	104.159	ug/l	97
71) Bromoform	10.799	173	112482	99.723	ug/l #	98
73) Isopropylbenzene	10.964	105	731955	97.894	ug/l	99
74) N-amyl acetate	10.842	43	371420	107.485	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.214	83	245395	94.491	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	278299	125.569	ug/l	85
77) Bromobenzene	11.195	156	175647	96.874	ug/l	98
78) n-propylbenzene	11.305	91	836676	101.242	ug/l	99
79) 2-Chlorotoluene	11.366	91	504407	94.377	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	604993	97.570	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	78453	97.165	ug/l	94
82) 4-Chlorotoluene	11.451	91	588197	99.384	ug/l	99
83) tert-Butylbenzene	11.713	119	606738	99.013	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	614999	100.994	ug/l	100
85) sec-Butylbenzene	11.890	105	743098	99.889	ug/l	100
86) p-Isopropyltoluene	12.006	119	624416	100.847	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	317377	100.210	ug/l	99
88) 1,4-Dichlorobenzene	12.043	146	316688	97.271	ug/l	99
89) n-Butylbenzene	12.329	91	564303	108.385	ug/l	99
90) Hexachloroethane	12.536	117	105946	117.218	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	323040	98.232	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	54588	108.279	ug/l	93
93) 1,2,4-Trichlorobenzene	13.585	180	197899	109.766	ug/l	98
94) Hexachlorobutadiene	13.725	225	72453	99.908	ug/l	97
95) Naphthalene	13.774	128	755181	107.308	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	206053	107.754	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044223.D
Acq On : 11 Dec 2024 12:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

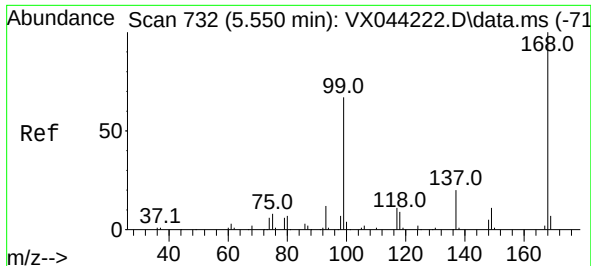
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Dec 12 04:15:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

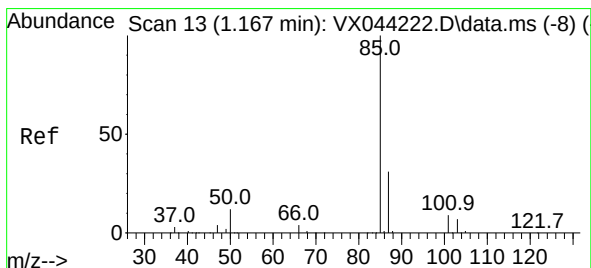
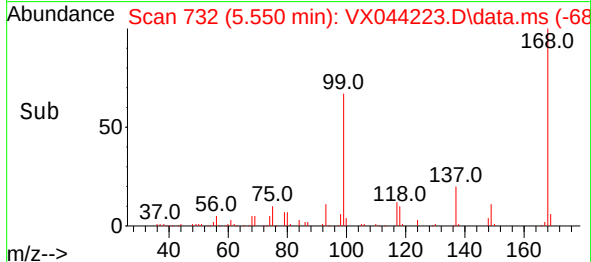
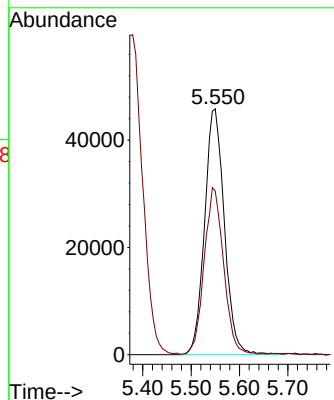
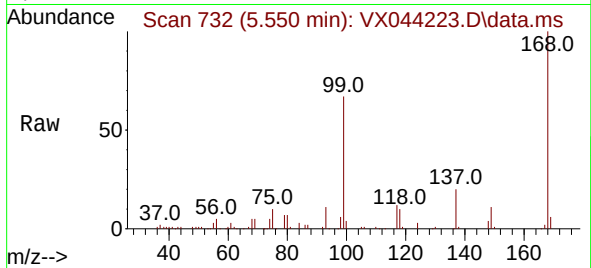
- 1
- 2
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- 15
- 16
- 17



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

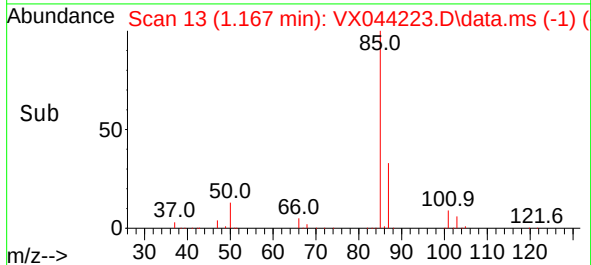
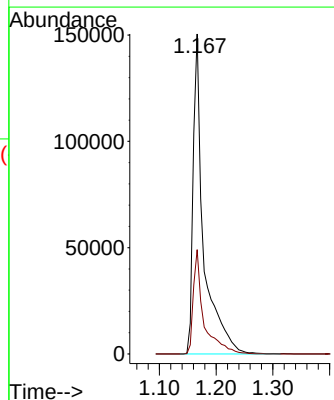
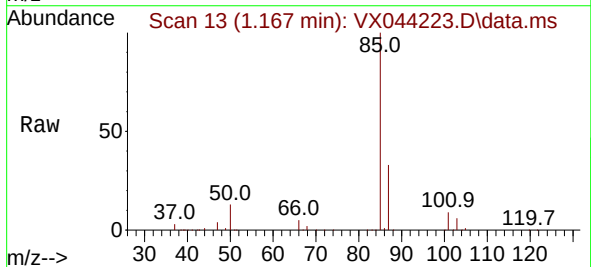
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

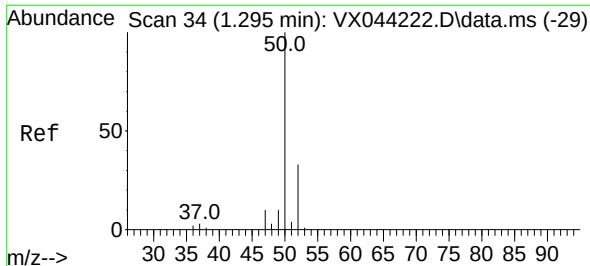
Tgt Ion:168 Resp: 130101
Ion Ratio Lower Upper
168 100
99 66.4 53.4 80.0



#2
Dichlorodifluoromethane
Concen: 96.329 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 85 Resp: 193785
Ion Ratio Lower Upper
85 100
87 32.6 15.4 46.4

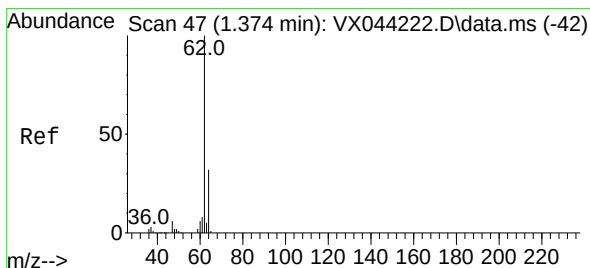
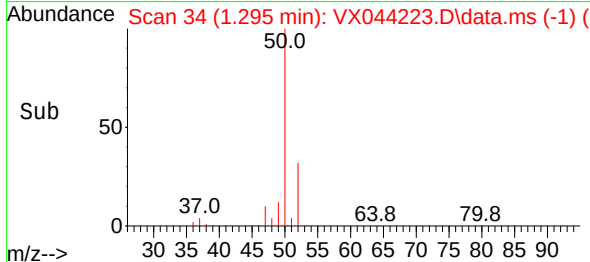
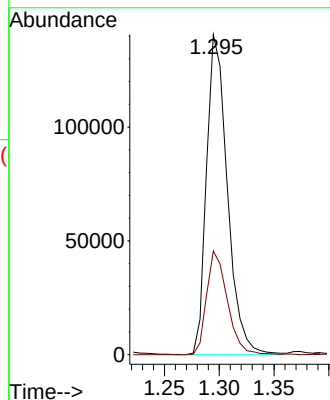
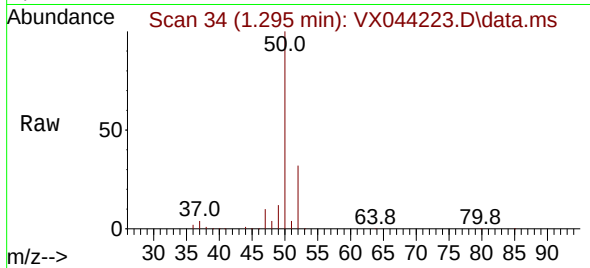




#3
Chloromethane
Concen: 96.774 ug/l
RT: 1.295 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

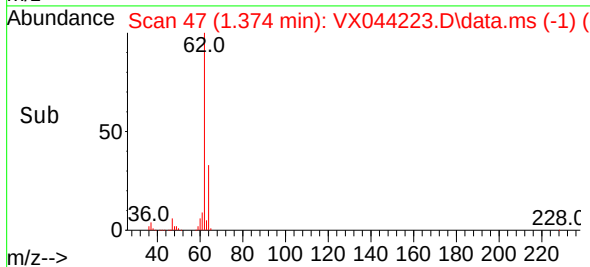
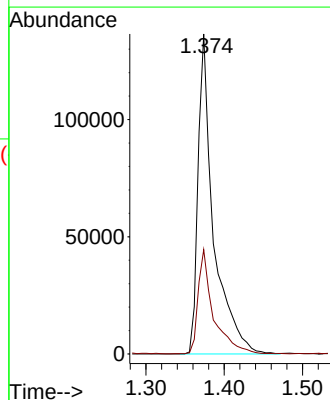
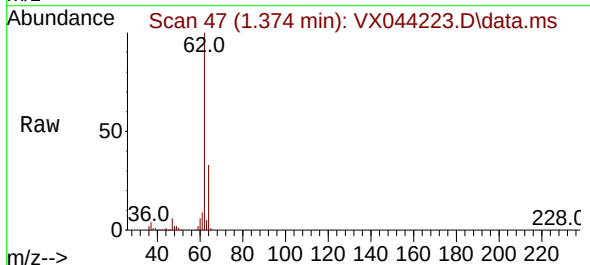
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

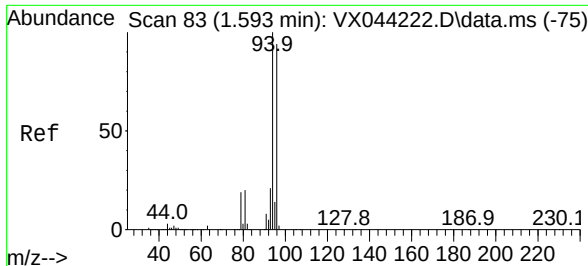
Tgt Ion: 50 Resp: 186167
Ion Ratio Lower Upper
50 100
52 32.4 26.5 39.7



#4
Vinyl Chloride
Concen: 93.675 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 62 Resp: 187739
Ion Ratio Lower Upper
62 100
64 32.5 25.7 38.5

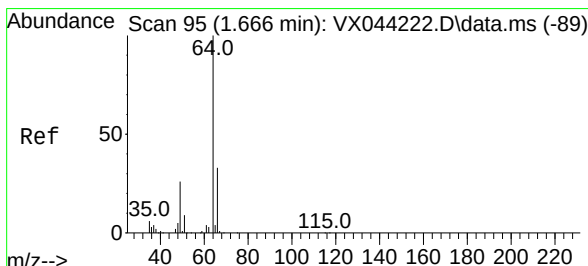
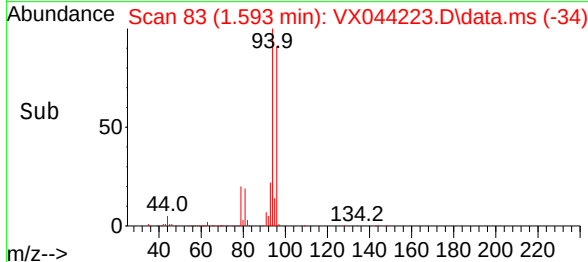
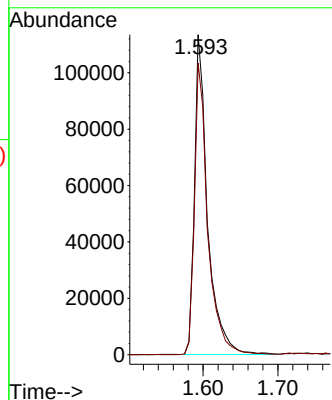
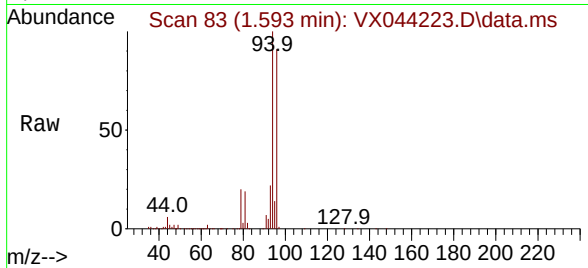




#5
Bromomethane
Concen: 96.897 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

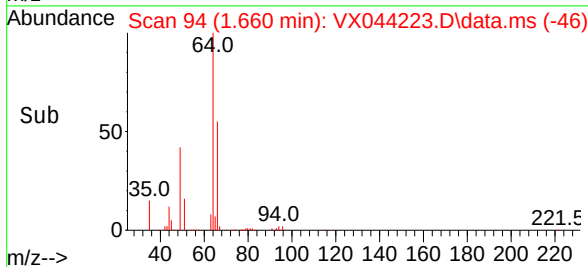
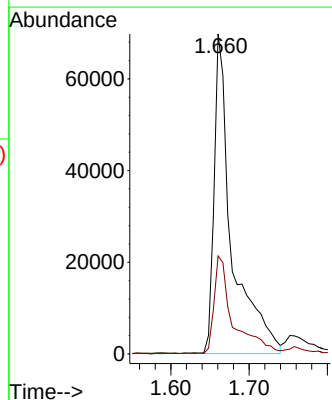
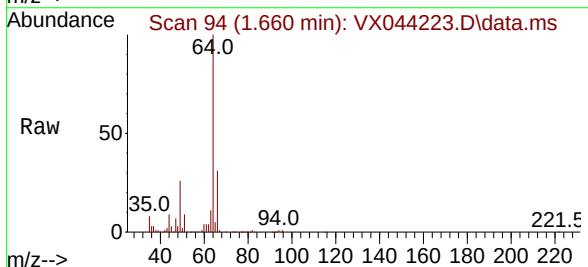
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

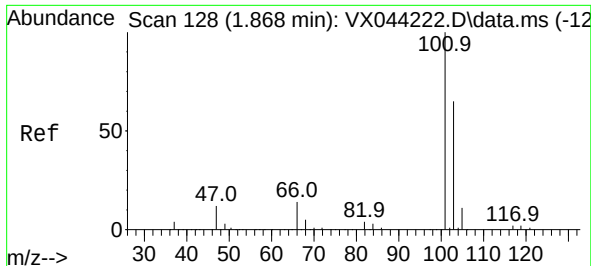
Tgt Ion: 94 Resp: 137770
Ion Ratio Lower Upper
94 100
96 91.1 74.9 112.3



#6
Chloroethane
Concen: 88.074 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 64 Resp: 109912
Ion Ratio Lower Upper
64 100
66 30.5 26.6 39.8

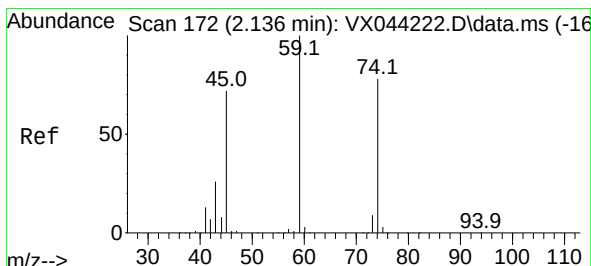
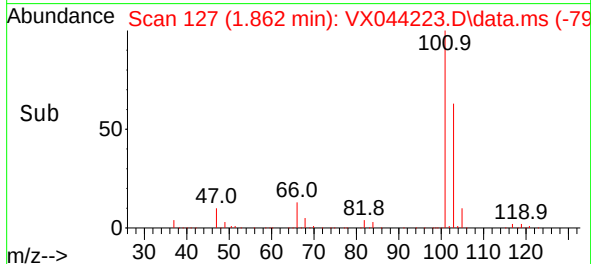
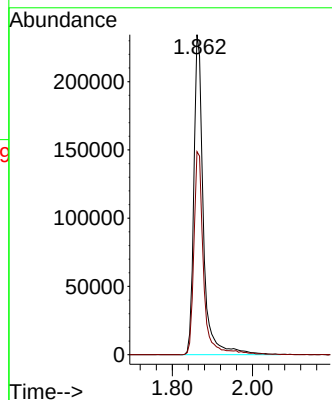
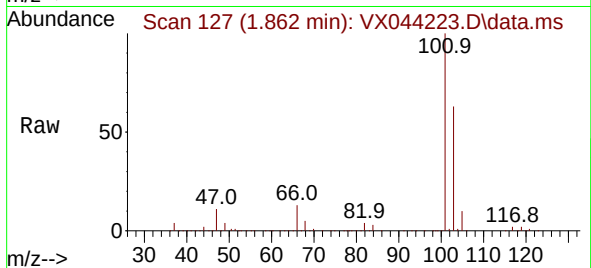




#7
Trichlorofluoromethane
Concen: 98.030 ug/l
RT: 1.862 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

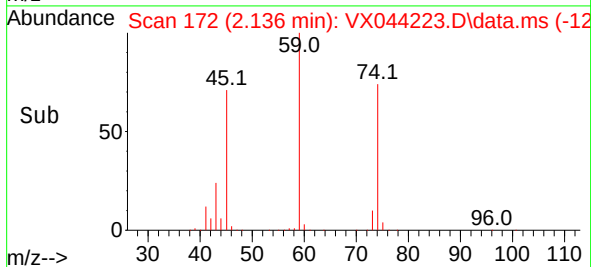
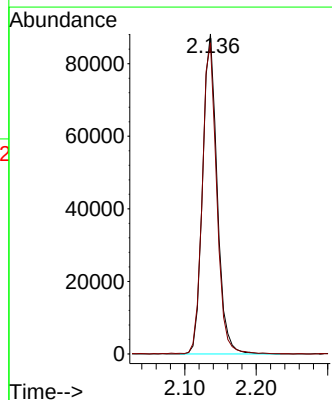
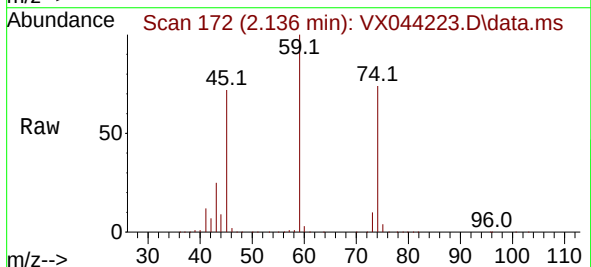
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

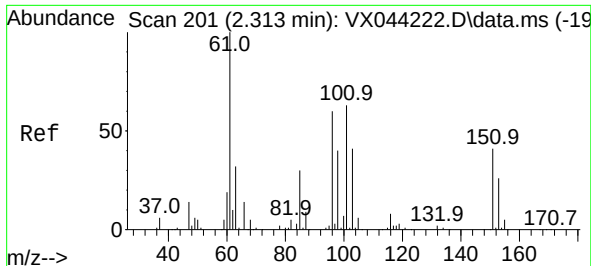
Tgt Ion:101 Resp: 384622
Ion Ratio Lower Upper
101 100
103 63.5 51.8 77.8



#8
Diethyl Ether
Concen: 92.618 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 74 Resp: 124039
Ion Ratio Lower Upper
74 100
45 96.3 48.4 145.0

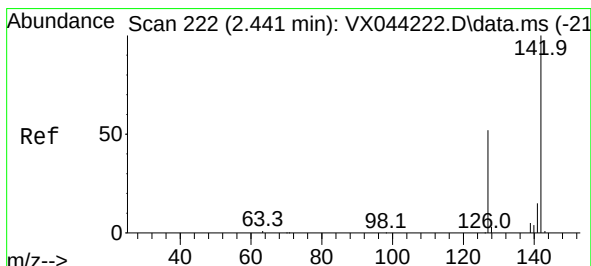
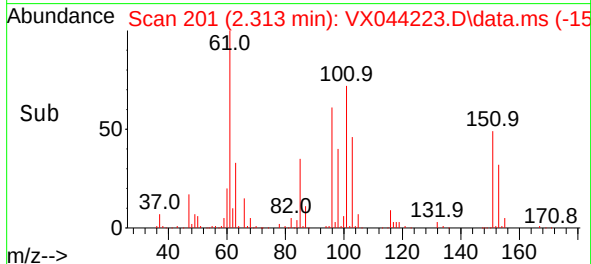
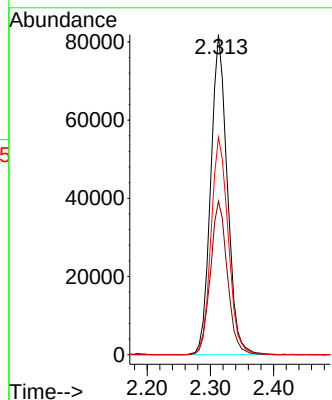
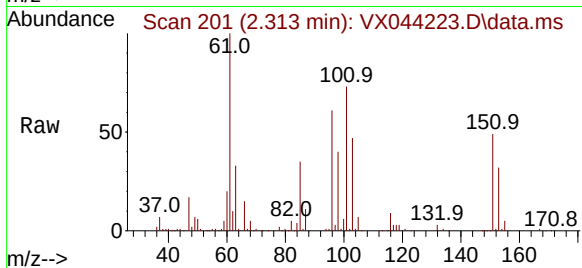




#9
1,1,2-Trichlorotrifluoroethane
Concen: 93.944 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

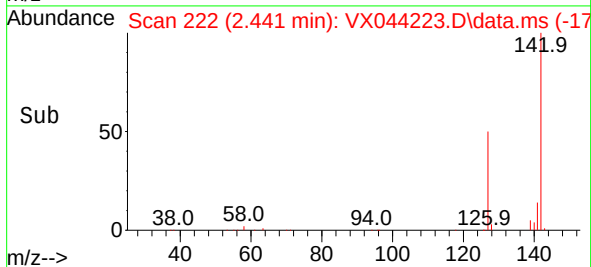
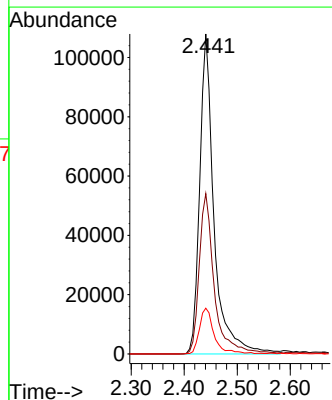
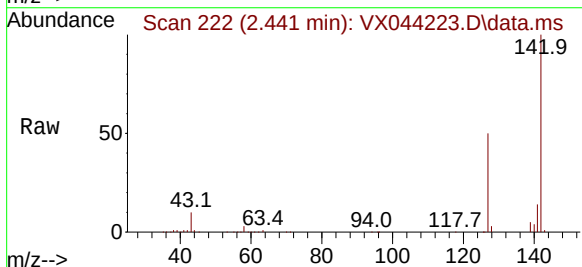
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

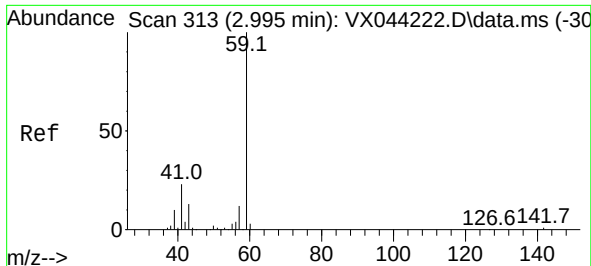
Tgt Ion:101 Resp: 149151
Ion Ratio Lower Upper
101 100
85 48.9 38.5 57.7
151 70.5 55.8 83.6



#10
Methyl Iodide
Concen: 97.275 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:142 Resp: 203545
Ion Ratio Lower Upper
142 100
127 52.4 41.8 62.8
141 14.8 11.5 17.3

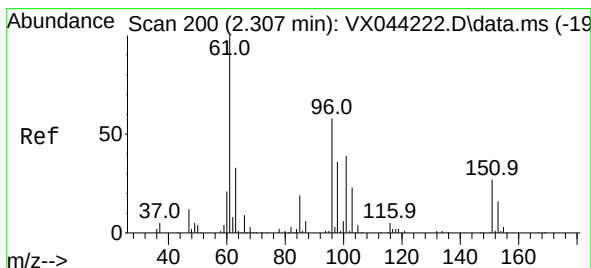
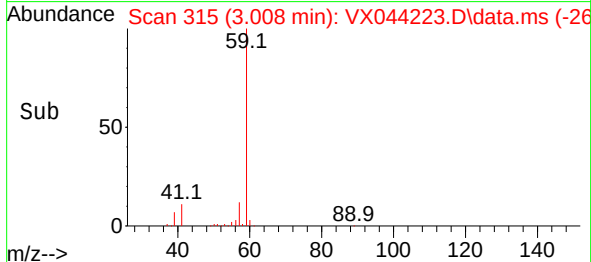
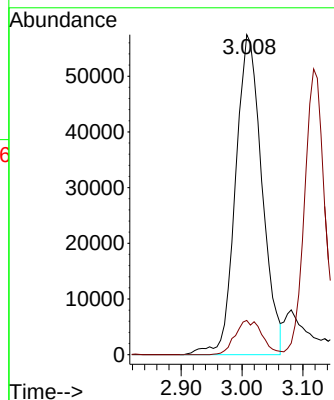
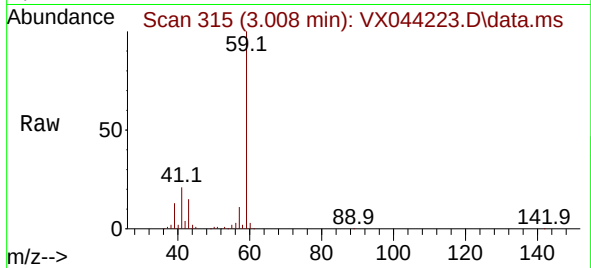




#11
Tert butyl alcohol
Concen: 539.406 ug/l
RT: 3.008 min Scan# 313
Delta R.T. 0.012 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

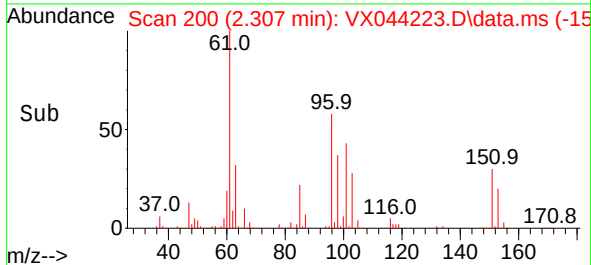
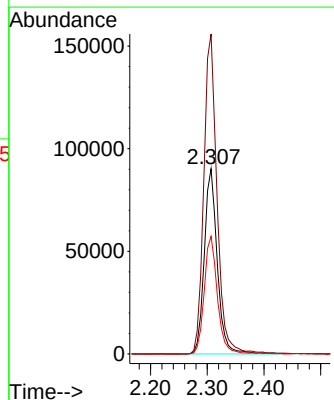
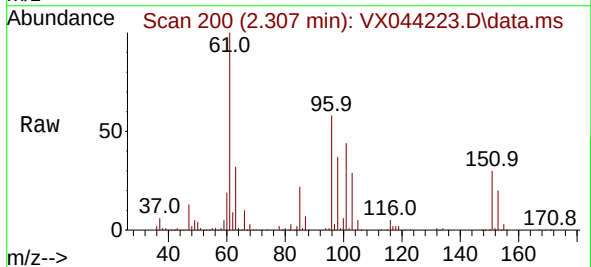
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

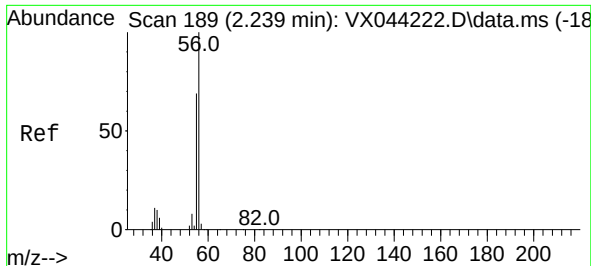
Tgt Ion: 59 Resp: 173139
Ion Ratio Lower Upper
59 100
57 11.1 8.8 13.2



#12
1,1-Dichloroethene
Concen: 98.930 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 96 Resp: 144268
Ion Ratio Lower Upper
96 100
61 172.7 138.0 207.0
98 63.5 50.0 75.0





#13

Acrolein

Concen: 485.718 ug/l

RT: 2.240 min Scan# 189

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

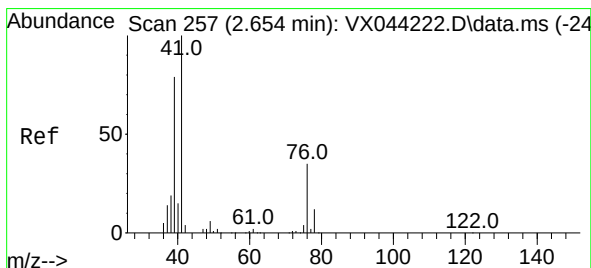
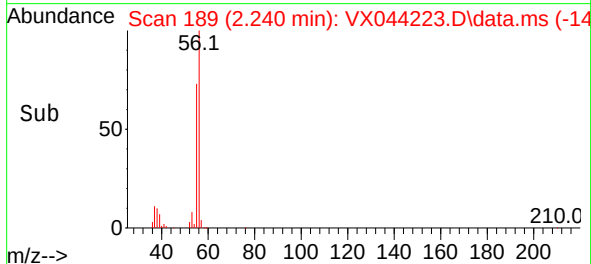
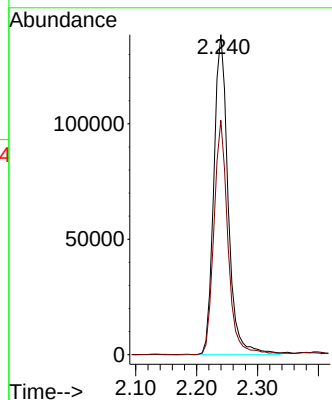
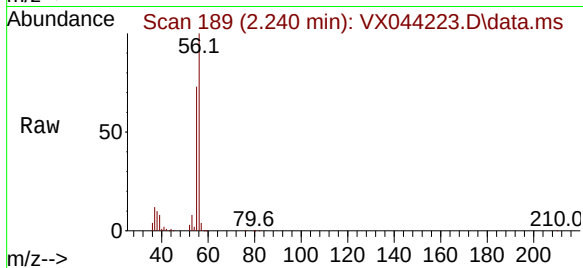
VSTDICC100

Tgt Ion: 56 Resp: 226037

Ion Ratio Lower Upper

56 100

55 71.7 56.6 84.8



#14

Allyl chloride

Concen: 100.703 ug/l

RT: 2.654 min Scan# 257

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

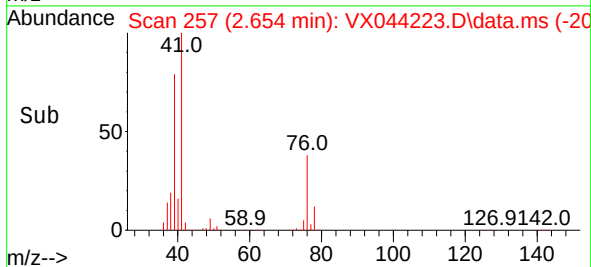
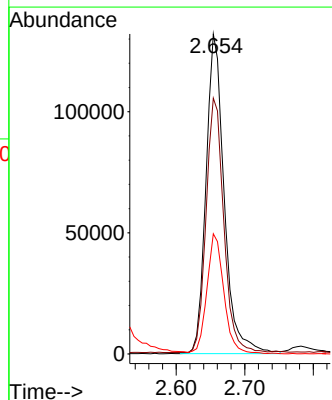
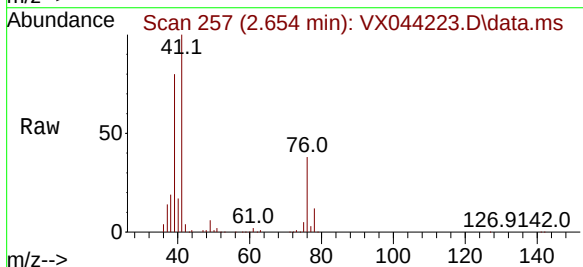
Tgt Ion: 41 Resp: 244602

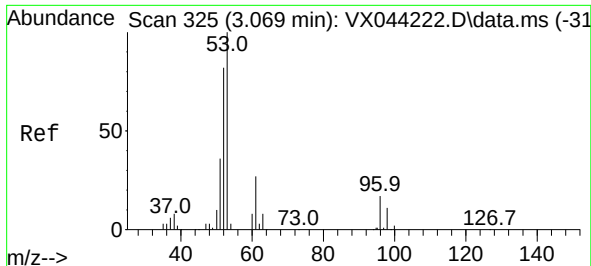
Ion Ratio Lower Upper

41 100

39 77.0 61.9 92.9

76 34.7 27.4 41.2





#15

Acrylonitrile

Concen: 501.661 ug/l

RT: 3.069 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

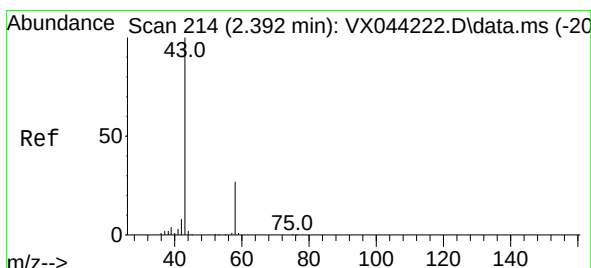
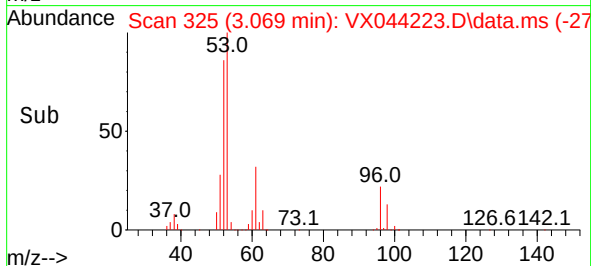
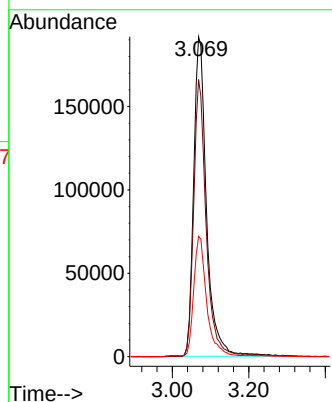
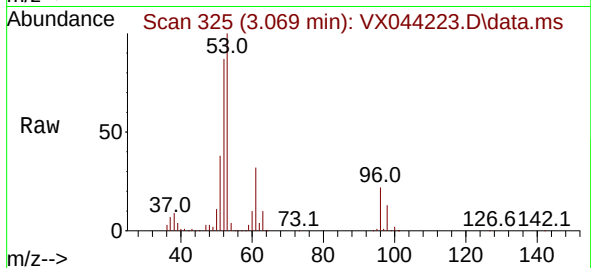
Tgt Ion: 53 Resp: 446747

Ion Ratio Lower Upper

53 100

52 84.0 67.4 101.0

51 37.0 30.3 45.5



#16

Acetone

Concen: 487.065 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.000 min

Lab File: VX044223.D

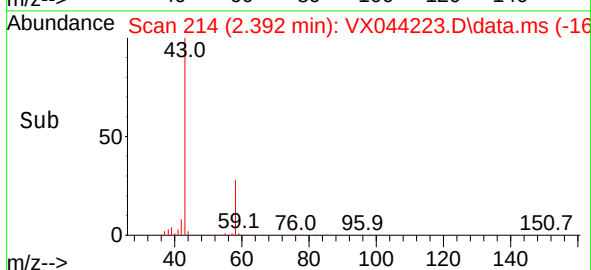
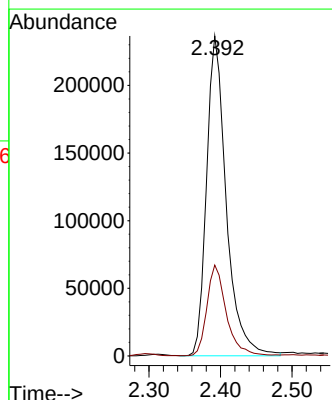
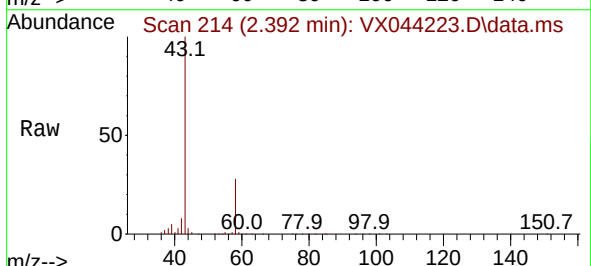
Acq: 11 Dec 2024 12:37

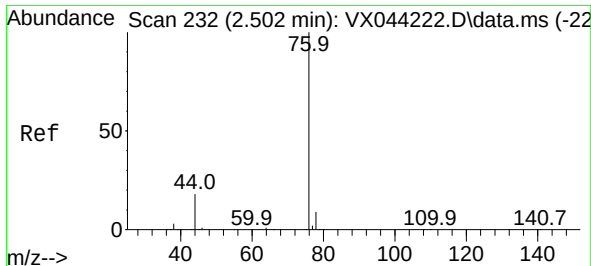
Tgt Ion: 43 Resp: 452955

Ion Ratio Lower Upper

43 100

58 28.4 21.6 32.4

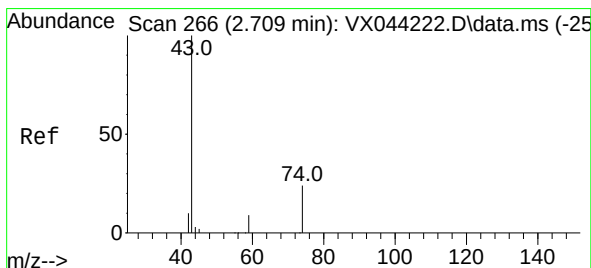
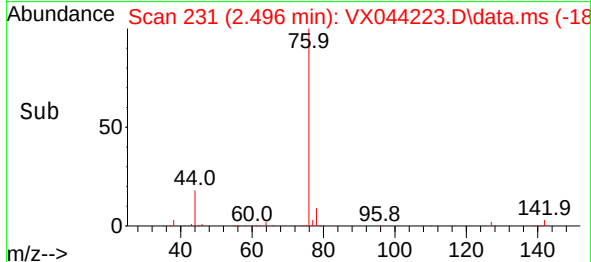
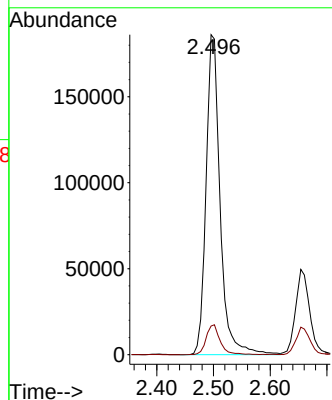
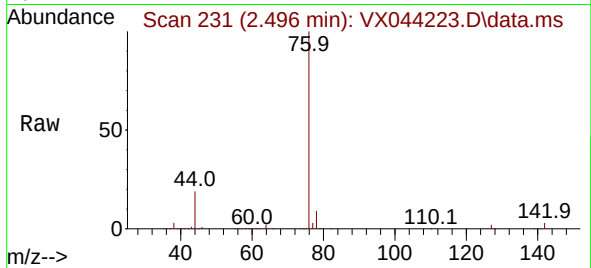




#17
Carbon Disulfide
Concen: 115.453 ug/l
RT: 2.496 min Scan# 24
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

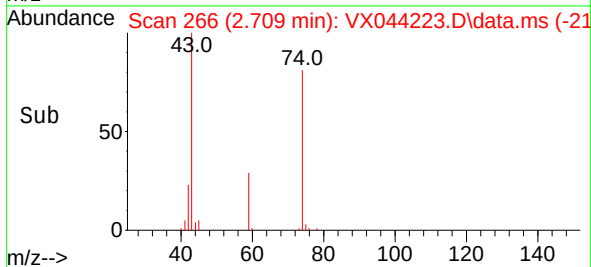
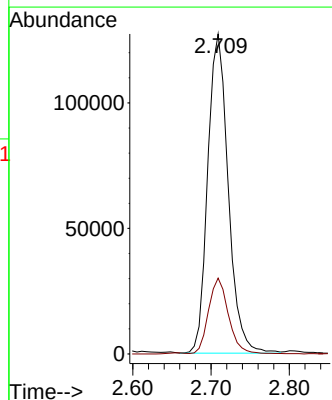
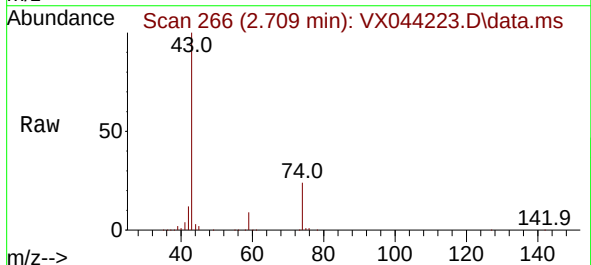
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

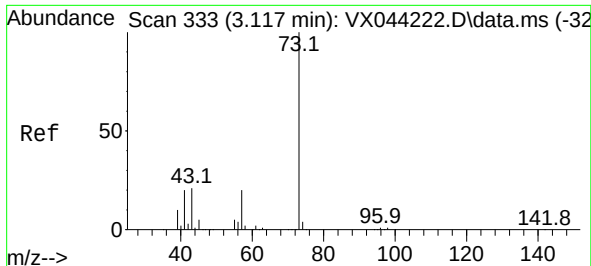
Tgt Ion: 76 Resp: 320036
Ion Ratio Lower Upper
76 100
78 9.0 7.4 11.0



#18
Methyl Acetate
Concen: 96.338 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 230998
Ion Ratio Lower Upper
43 100
74 23.3 17.7 26.5





#19

Methyl tert-butyl Ether

Concen: 99.205 ug/l

RT: 3.117 min Scan# 333

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

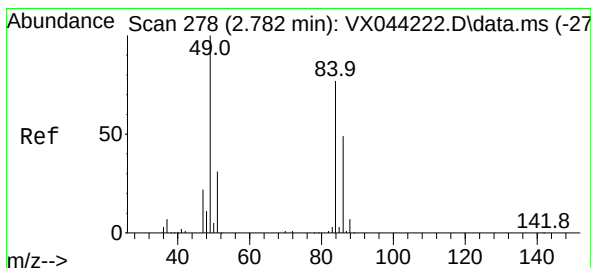
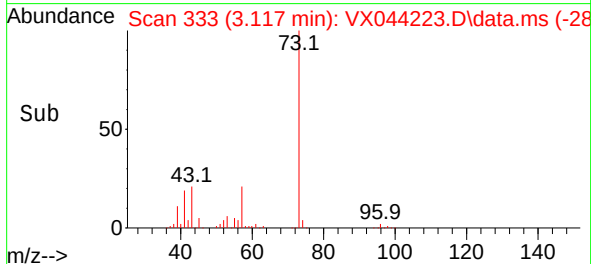
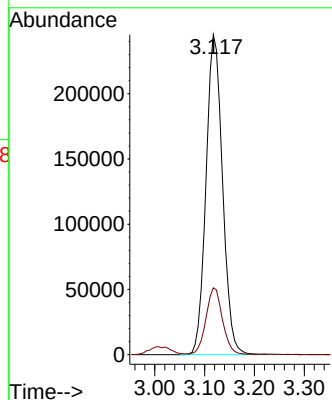
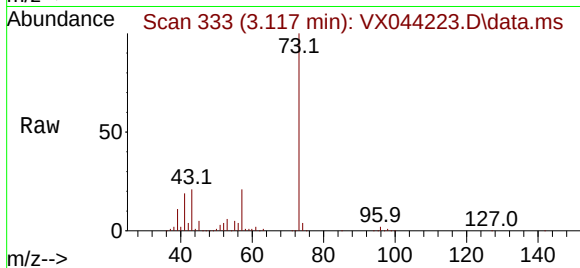
VSTDIC100

Tgt Ion: 73 Resp: 564545

Ion Ratio Lower Upper

73 100

57 20.8 16.2 24.4



#20

Methylene Chloride

Concen: 96.466 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Tgt Ion: 84 Resp: 168498

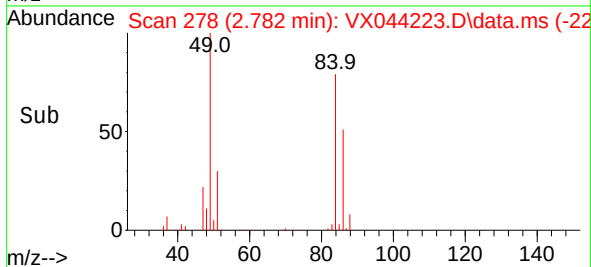
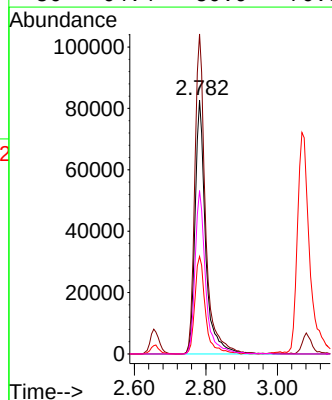
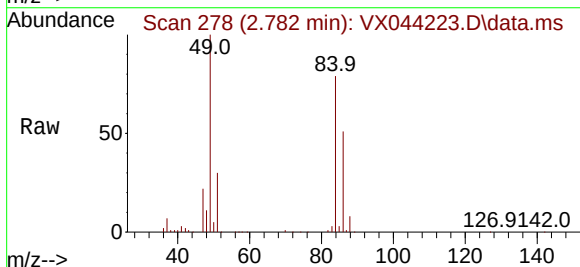
Ion Ratio Lower Upper

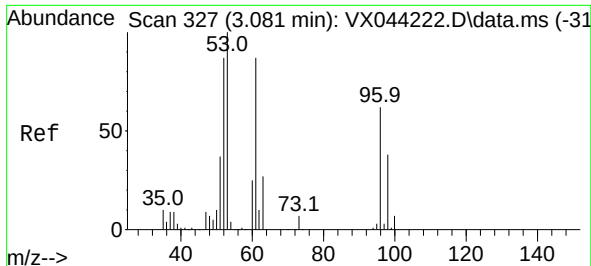
84 100

49 126.1 104.2 156.4

51 38.4 32.2 48.4

86 64.4 50.9 76.3

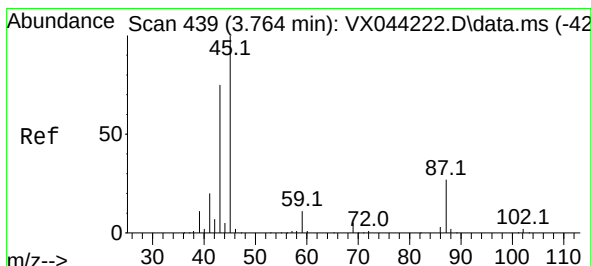
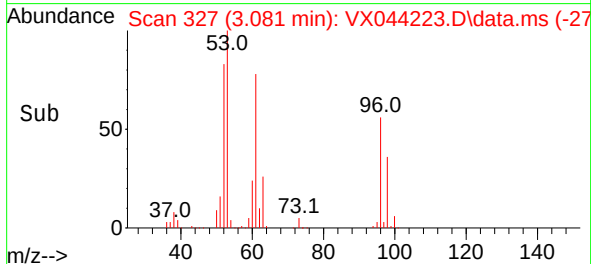
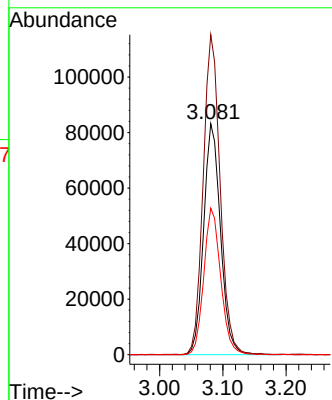
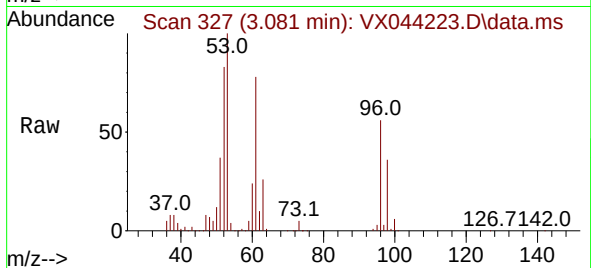




#21
trans-1,2-Dichloroethene
Concen: 99.880 ug/l
RT: 3.081 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

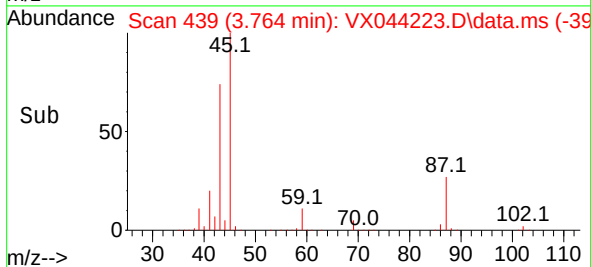
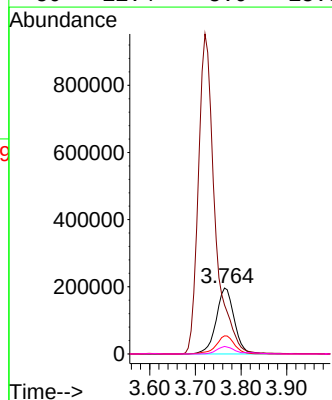
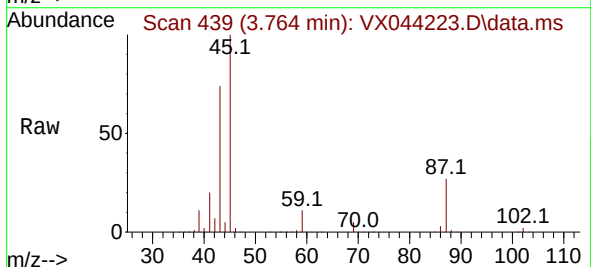
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

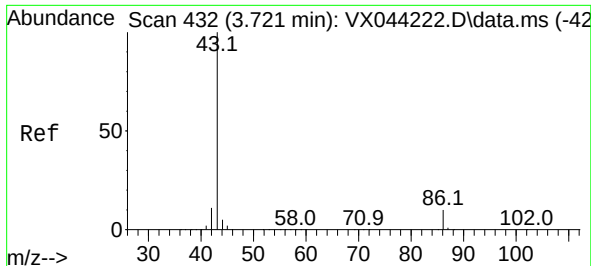
Tgt Ion: 96 Resp: 154797
Ion Ratio Lower Upper
96 100
61 138.4 112.0 168.0
98 63.5 48.8 73.2



#22
Diisopropyl ether
Concen: 98.498 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 45 Resp: 538742
Ion Ratio Lower Upper
45 100
43 74.2 60.2 90.2
87 27.4 21.2 31.8
59 11.4 8.9 13.3

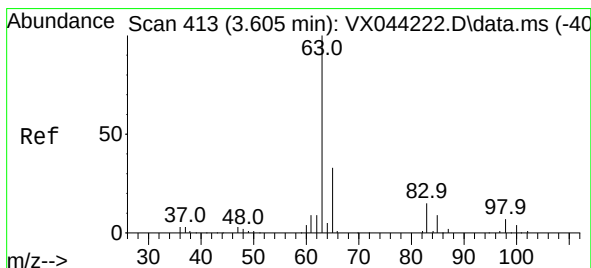
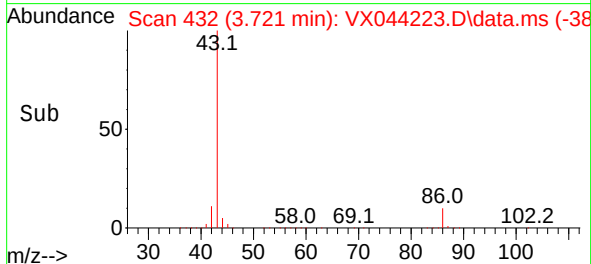
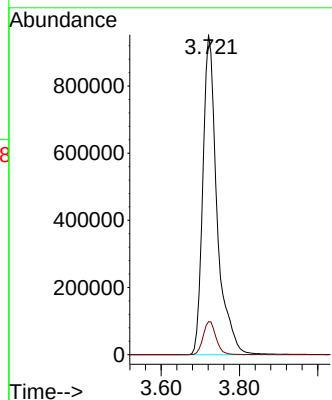
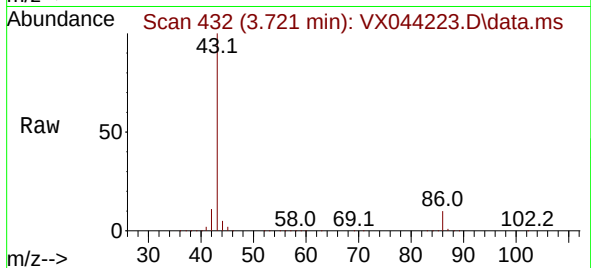




#23
 Vinyl Acetate
 Concen: 538.801 ug/l
 RT: 3.721 min Scan# 413
 Delta R.T. 0.000 min
 Lab File: VX044223.D
 Acq: 11 Dec 2024 12:37

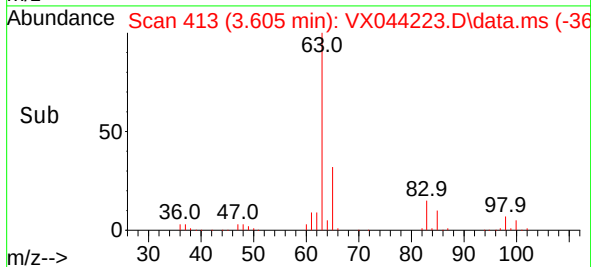
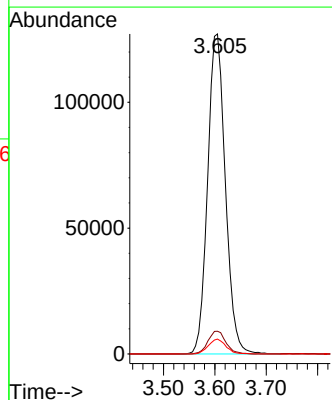
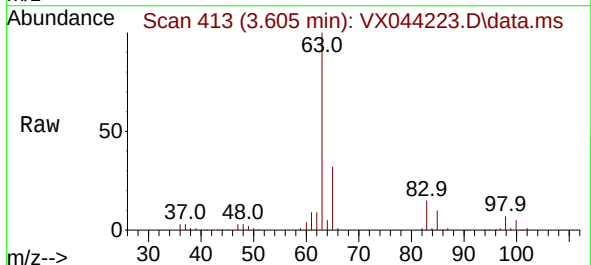
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC100

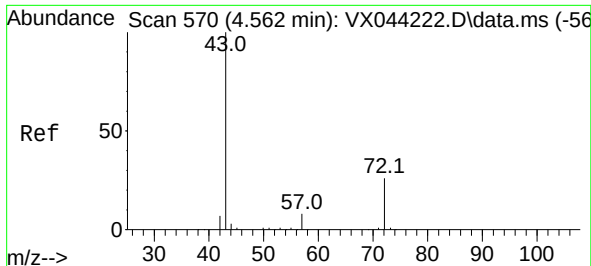
Tgt Ion: 43 Resp: 2395923
 Ion Ratio Lower Upper
 43 100
 86 10.3 8.2 12.2



#24
 1,1-Dichloroethane
 Concen: 99.915 ug/l
 RT: 3.605 min Scan# 413
 Delta R.T. 0.000 min
 Lab File: VX044223.D
 Acq: 11 Dec 2024 12:37

Tgt Ion: 63 Resp: 304626
 Ion Ratio Lower Upper
 63 100
 98 7.1 3.6 10.8
 100 4.6 2.1 6.3

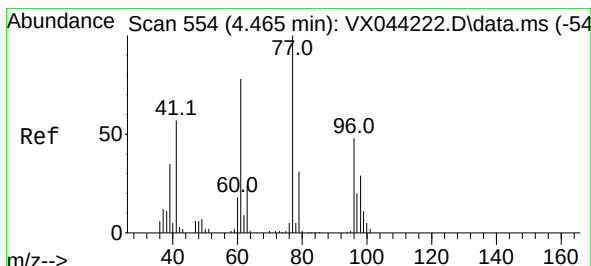
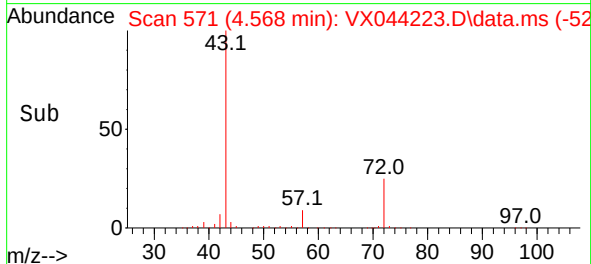
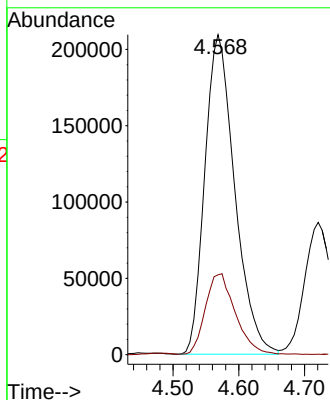
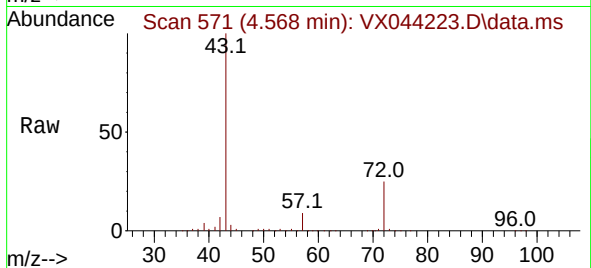




#25
2-Butanone
Concen: 501.306 ug/l
RT: 4.568 min Scan# 51
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

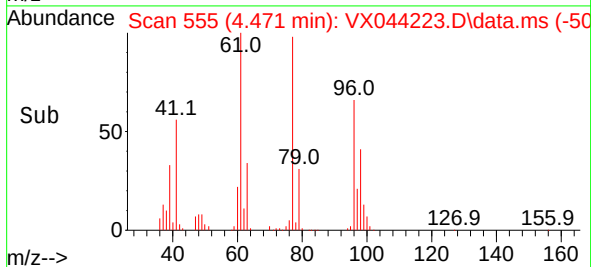
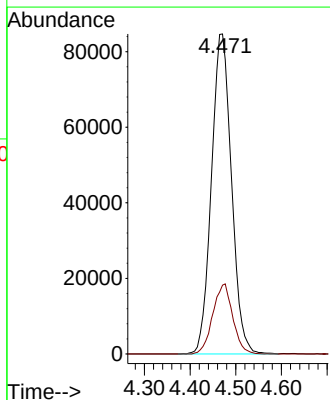
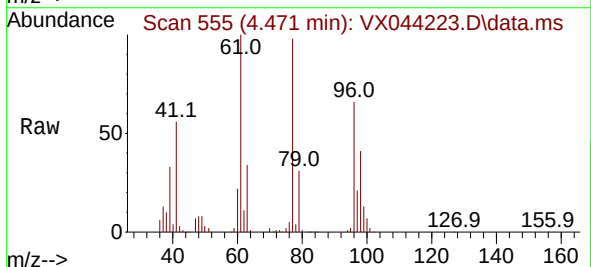
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

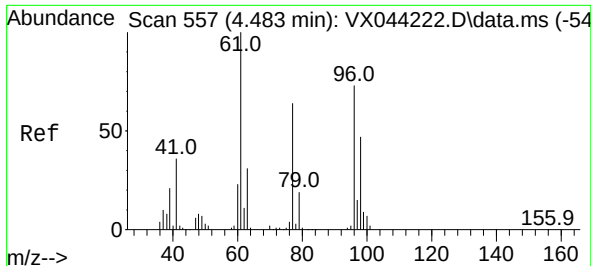
Tgt Ion: 43 Resp: 662768
Ion Ratio Lower Upper
43 100
72 24.8 20.2 30.4



#26
2,2-Dichloropropane
Concen: 104.201 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 77 Resp: 258092
Ion Ratio Lower Upper
77 100
97 21.8 10.7 32.1

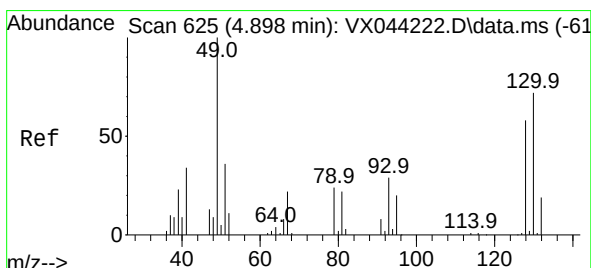
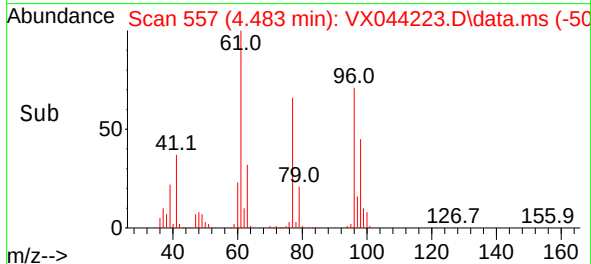
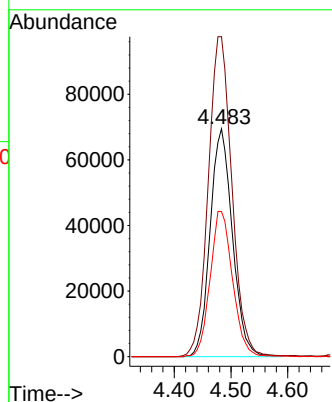
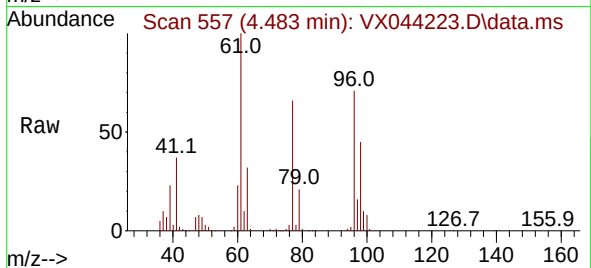




#27
cis-1,2-Dichloroethene
Concen: 96.593 ug/l
RT: 4.483 min Scan# 557
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

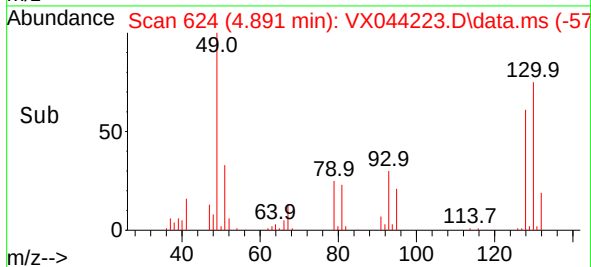
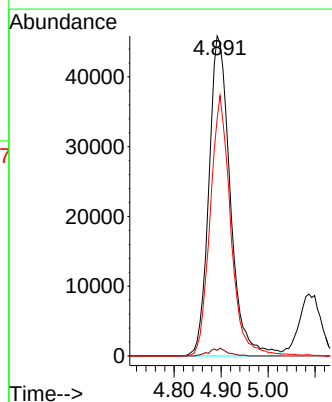
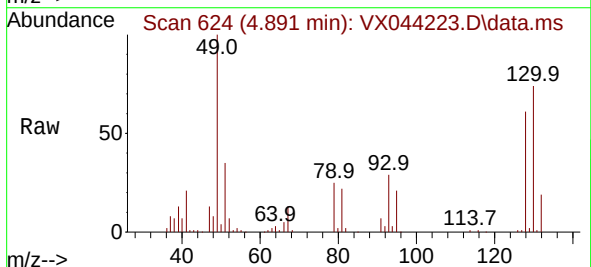
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

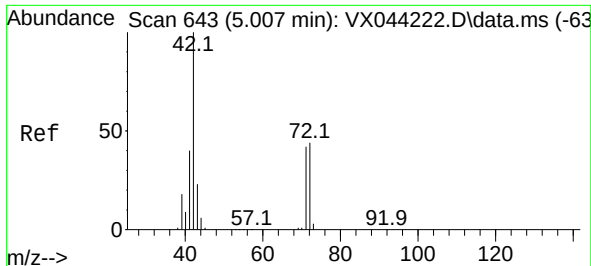
Tgt Ion: 96 Resp: 190127
Ion Ratio Lower Upper
96 100
61 148.5 0.0 299.0
98 64.2 0.0 129.0



#28
Bromochloromethane
Concen: 96.842 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 49 Resp: 144783
Ion Ratio Lower Upper
49 100
129 2.1 0.0 4.2
130 78.2 62.1 93.1

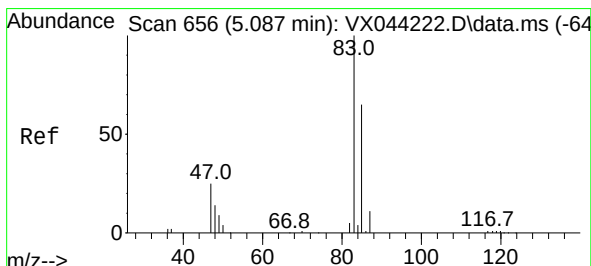
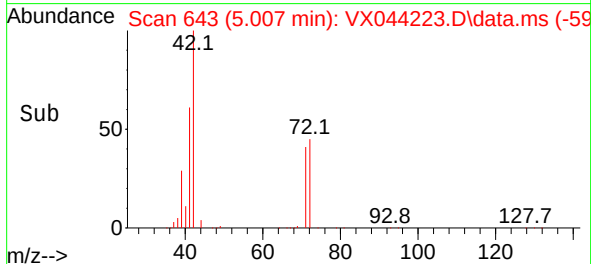
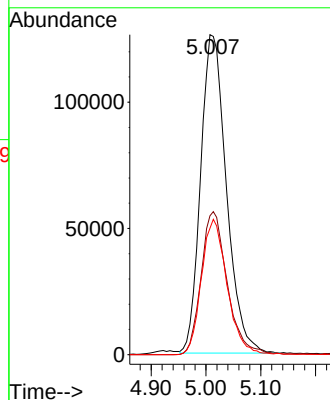
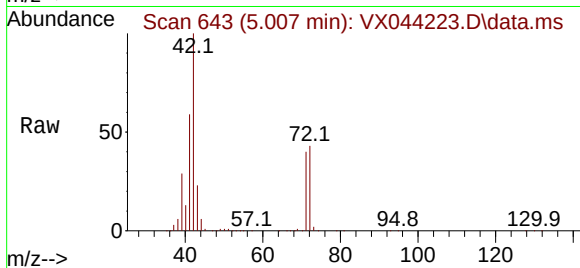




#29
Tetrahydrofuran
Concen: 486.290 ug/l
RT: 5.007 min Scan# 643
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

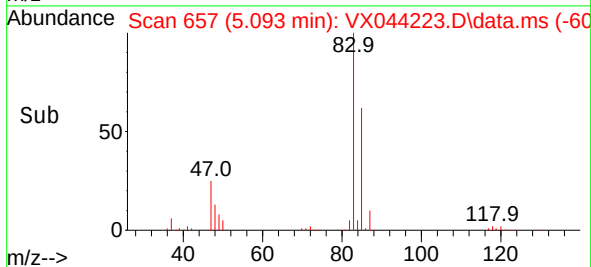
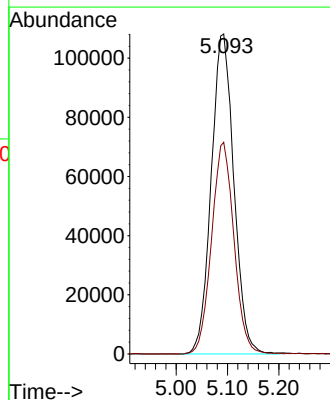
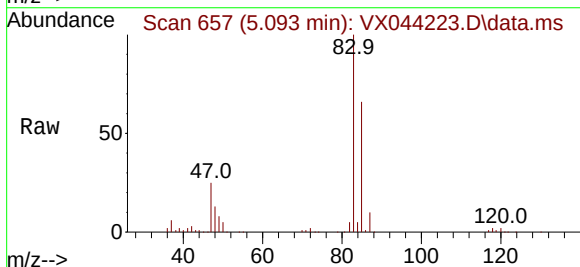
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

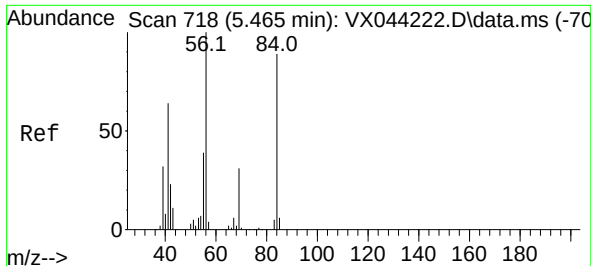
Tgt Ion:	42	Resp:	412666
Ion	Ratio	Lower	Upper
42	100		
72	45.6	37.0	55.6
71	42.1	33.6	50.4



#30
Chloroform
Concen: 96.642 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:	83	Resp:	331047
Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.6	77.4

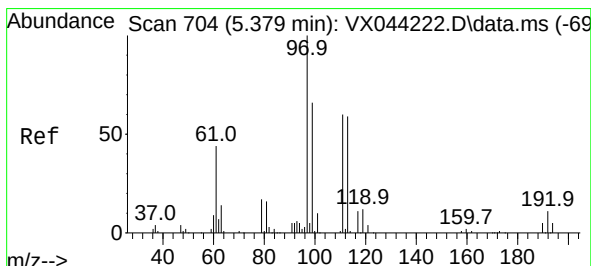
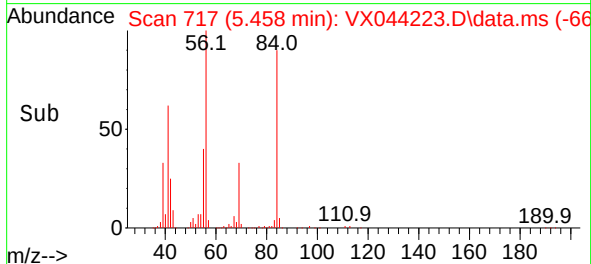
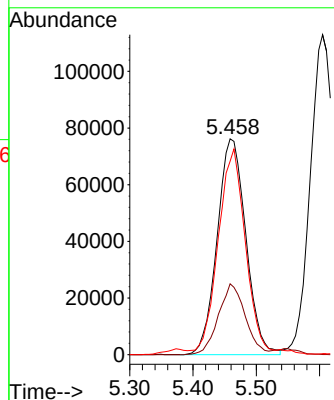
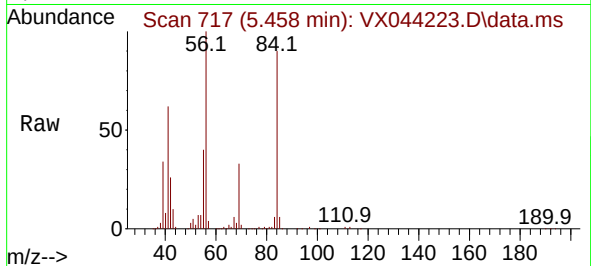




#31
Cyclohexane
Concen: 97.433 ug/l
RT: 5.458 min Scan# 718
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

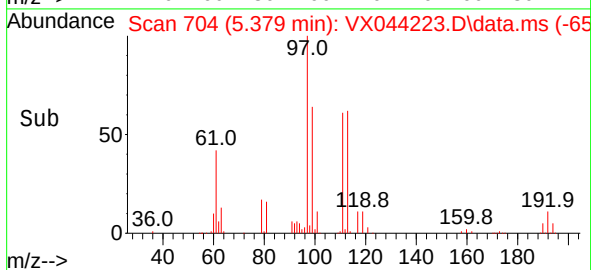
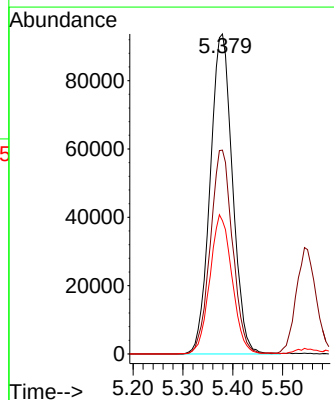
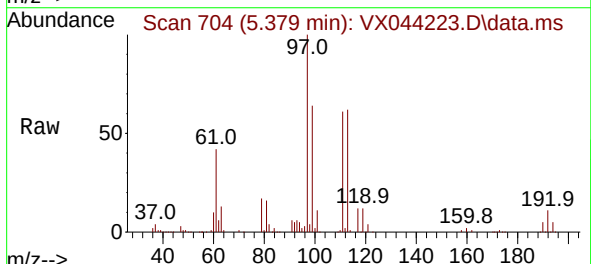
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

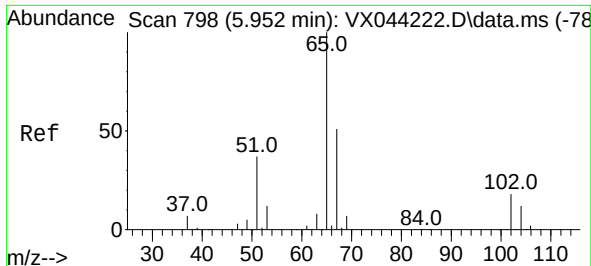
Tgt Ion: 56 Resp: 239879
Ion Ratio Lower Upper
56 100
69 32.8 24.7 37.1
84 87.3 71.0 106.6



#32
1,1,1-Trichloroethane
Concen: 102.363 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 97 Resp: 291065
Ion Ratio Lower Upper
97 100
99 63.7 50.8 76.2
61 43.3 35.2 52.8

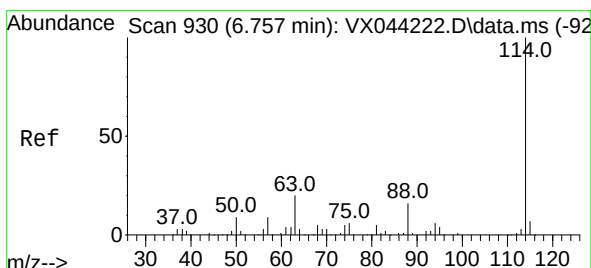
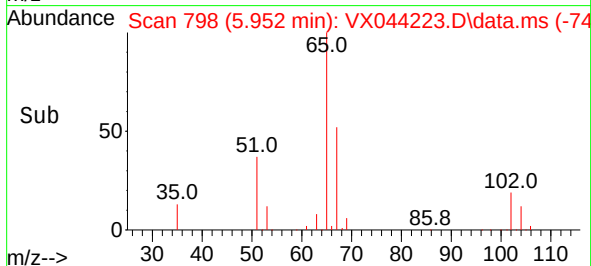
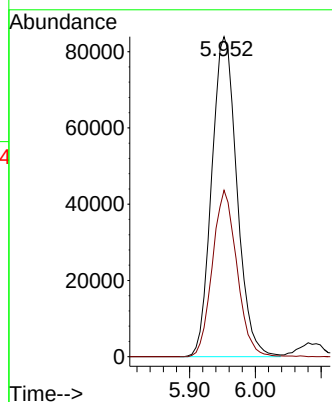
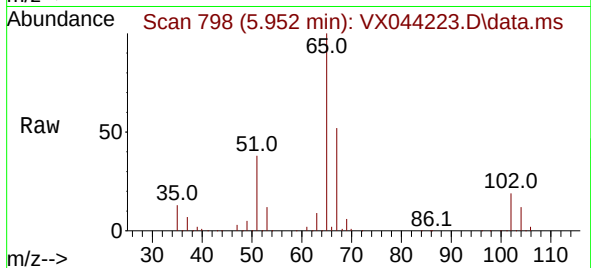




#33
1,2-Dichloroethane-d4
Concen: 98.326 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

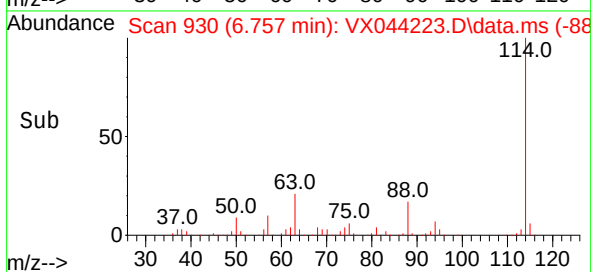
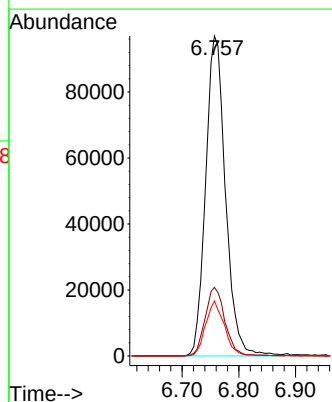
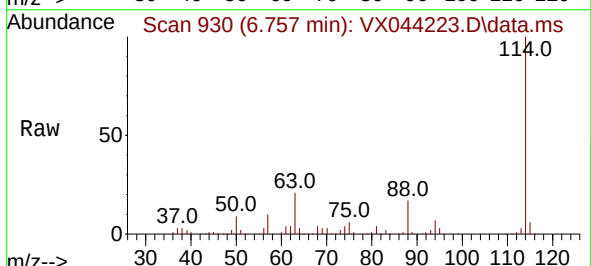
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

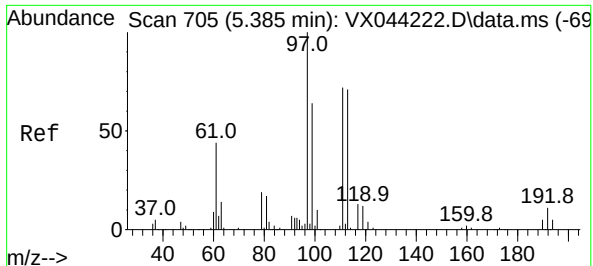
Tgt Ion: 65 Resp: 224292
Ion Ratio Lower Upper
65 100
67 50.5 0.0 101.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 114 Resp: 235738
Ion Ratio Lower Upper
114 100
63 21.5 0.0 40.6
88 17.2 0.0 31.8





#35

Dibromofluoromethane

Concen: 103.866 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

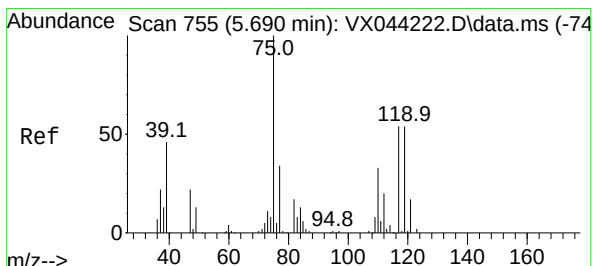
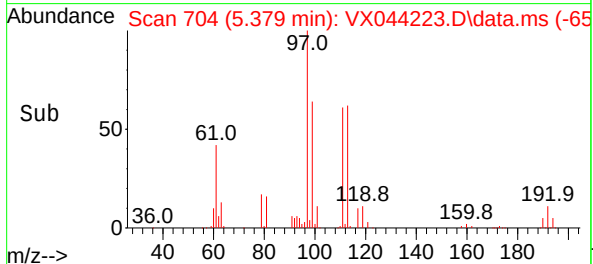
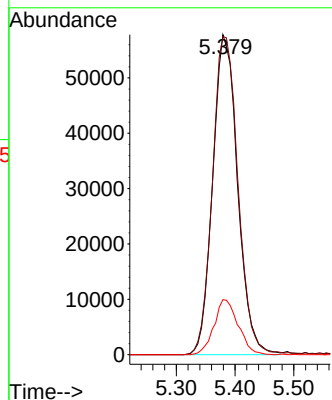
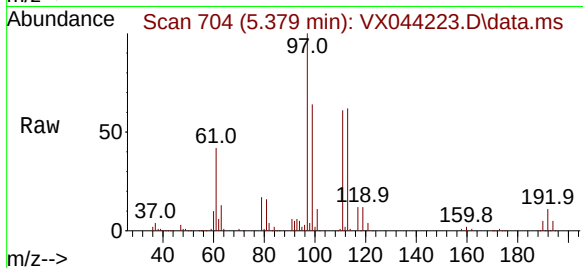
Tgt Ion:113 Resp: 169582

Ion Ratio Lower Upper

113 100

111 102.7 80.4 120.6

192 16.7 13.3 19.9



#36

1,1-Dichloropropene

Concen: 99.376 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

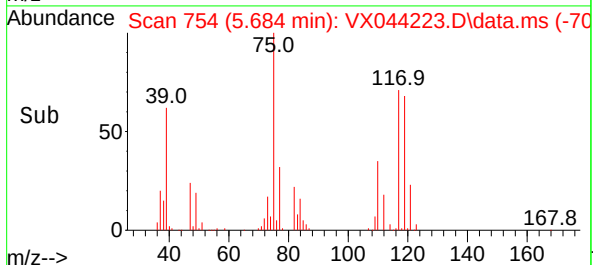
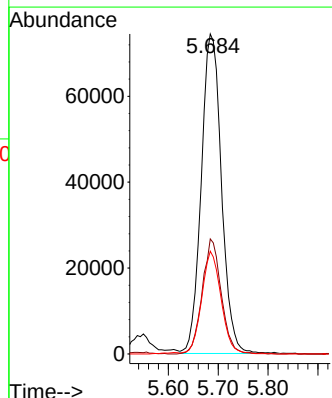
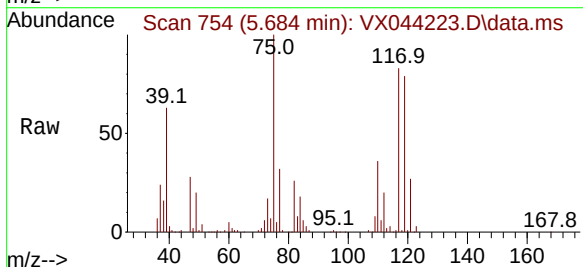
Tgt Ion: 75 Resp: 209732

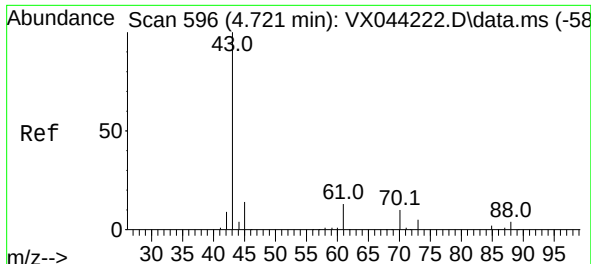
Ion Ratio Lower Upper

75 100

110 33.9 17.3 51.7

77 30.6 25.4 38.0





#37

Ethyl Acetate

Concen: 102.079 ug/l

RT: 4.721 min Scan# 596

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

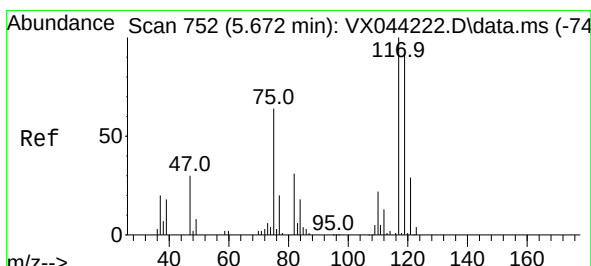
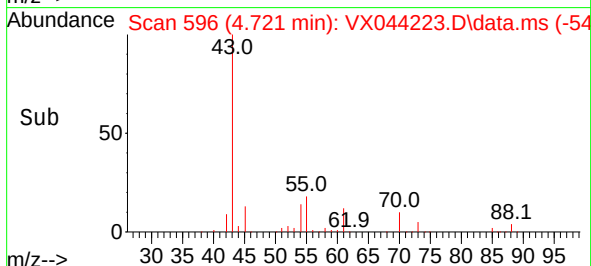
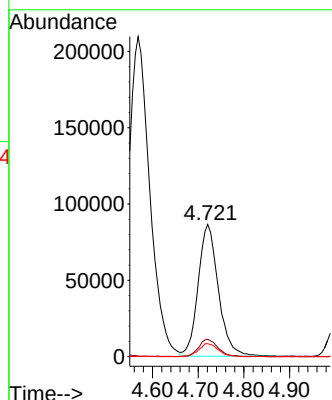
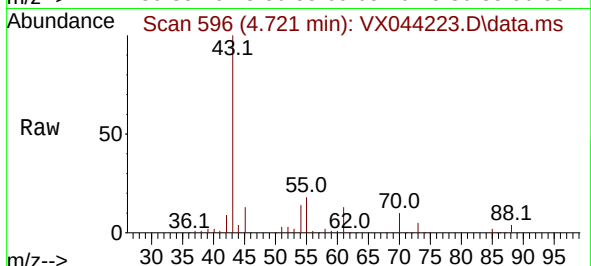
Tgt Ion: 43 Resp: 266307

Ion Ratio Lower Upper

43 100

61 12.5 9.8 14.8

70 9.5 7.7 11.5



#38

Carbon Tetrachloride

Concen: 104.249 ug/l

RT: 5.672 min Scan# 752

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

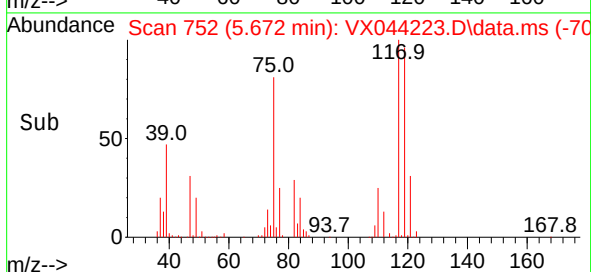
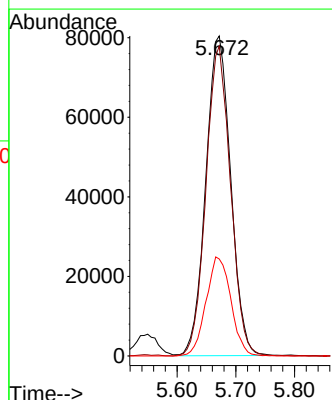
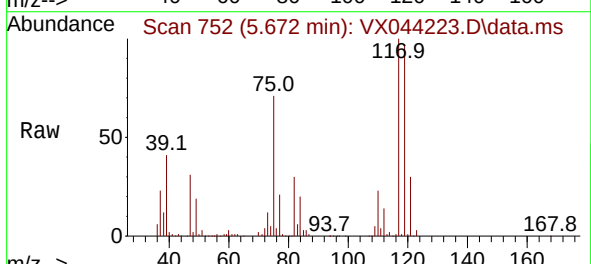
Tgt Ion: 117 Resp: 236869

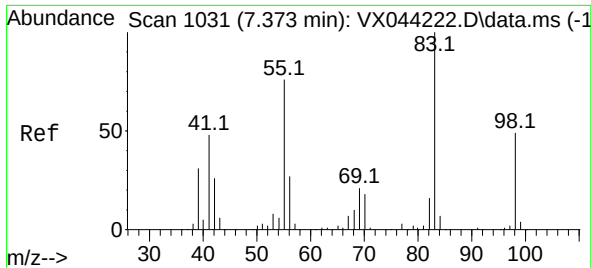
Ion Ratio Lower Upper

117 100

119 96.7 74.2 111.4

121 30.4 23.0 34.6

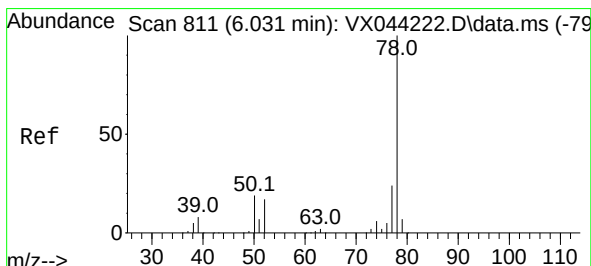
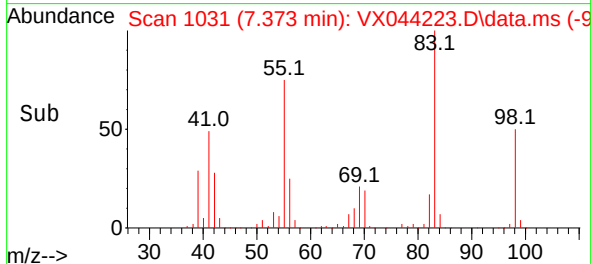
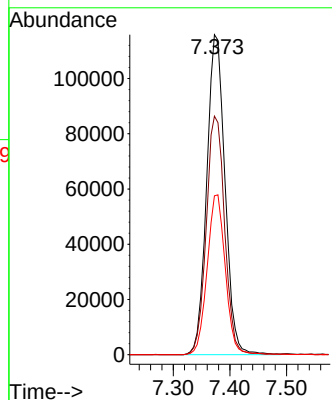
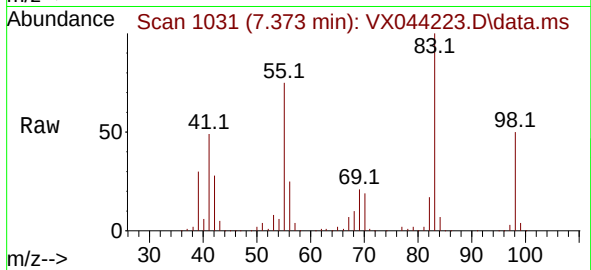




#39
Methylcyclohexane
Concen: 102.800 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

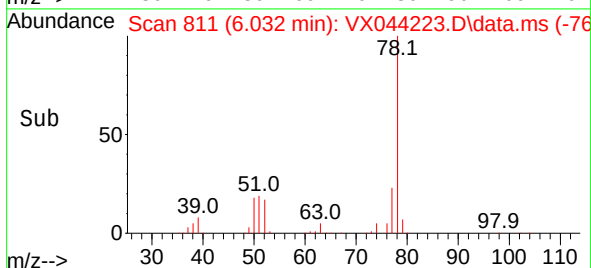
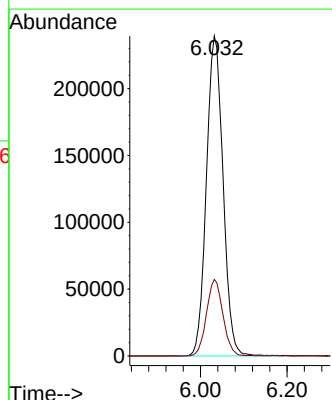
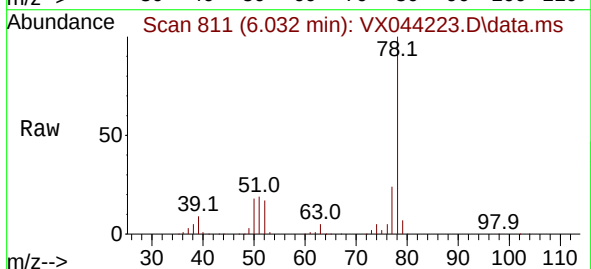
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

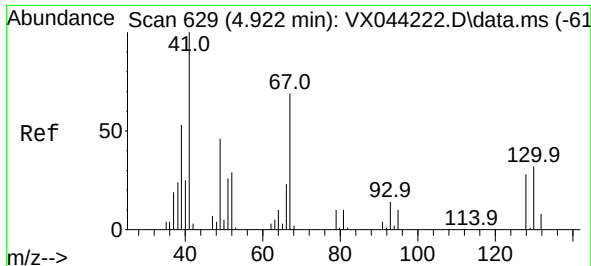
Tgt Ion: 83 Resp: 259368
Ion Ratio Lower Upper
83 100
55 74.5 60.7 91.1
98 49.6 38.9 58.3



#40
Benzene
Concen: 99.575 ug/l
RT: 6.032 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 78 Resp: 638055
Ion Ratio Lower Upper
78 100
77 23.9 19.3 28.9



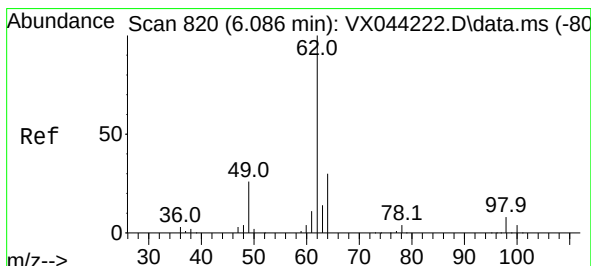
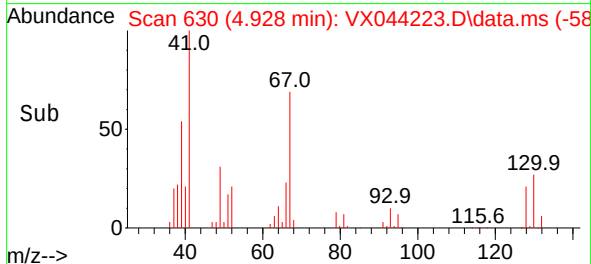
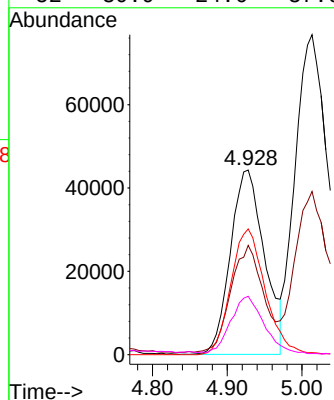
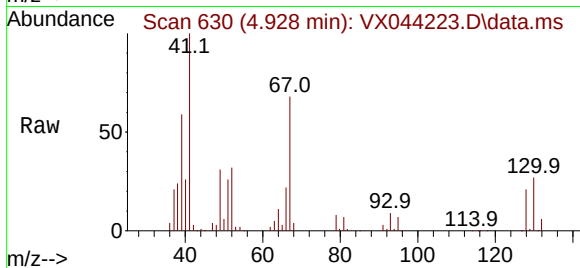


#41
Methacrylonitrile
Concen: 101.332 ug/l
RT: 4.928 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 140375

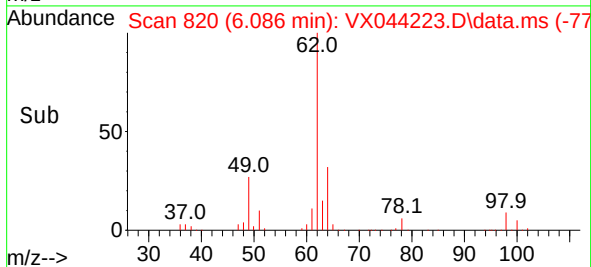
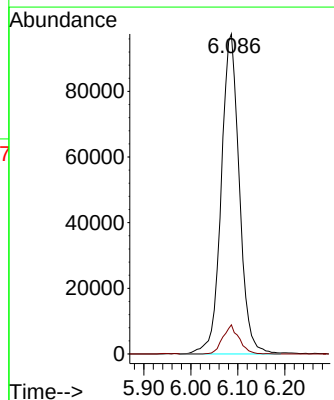
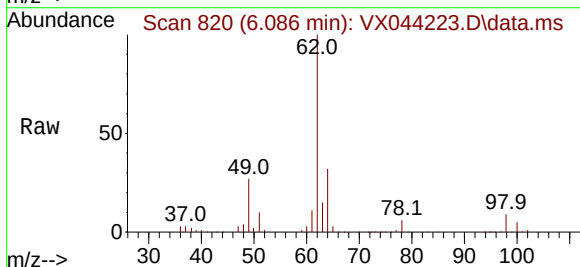
Ion	Ratio	Lower	Upper
41	100		
39	55.0	44.2	66.4
67	69.1	57.2	85.8
52	30.9	24.6	37.0

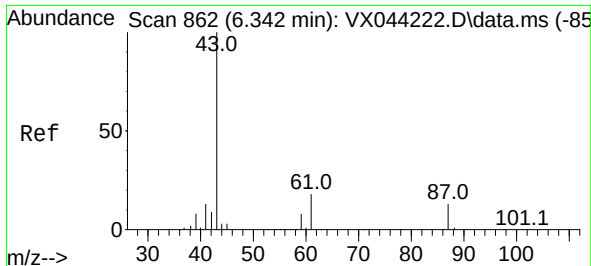


#42
1,2-Dichloroethane
Concen: 99.255 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 62 Resp: 261991

Ion	Ratio	Lower	Upper
62	100		
98	8.1	0.0	15.8

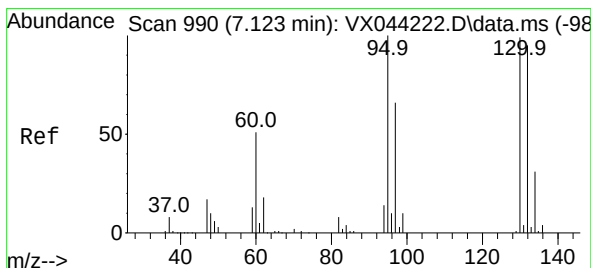
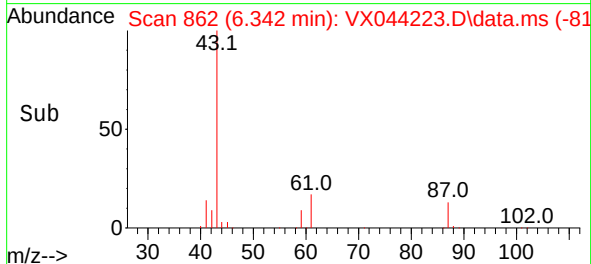
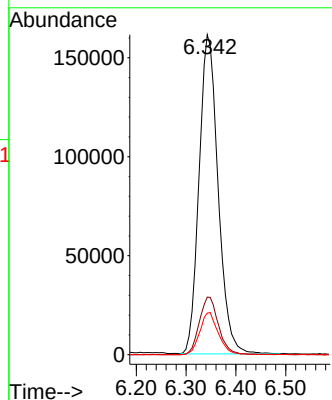
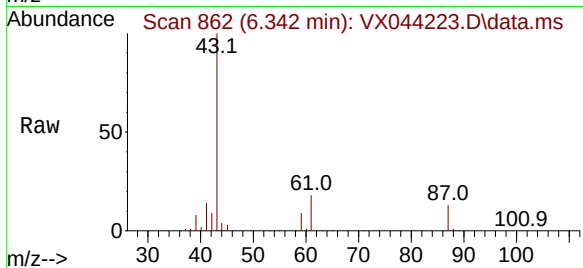




#43
Isopropyl Acetate
Concen: 104.939 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

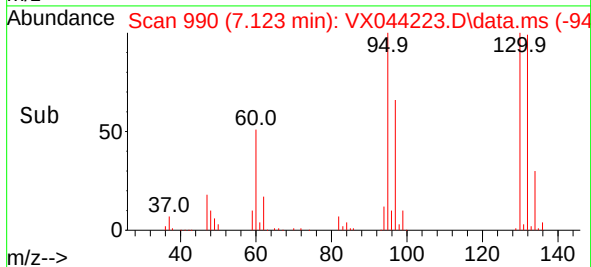
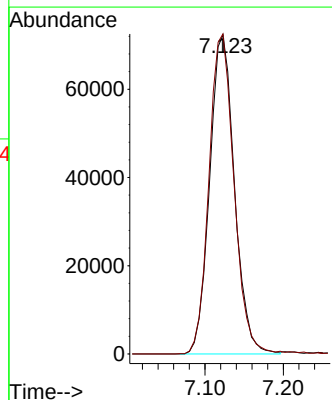
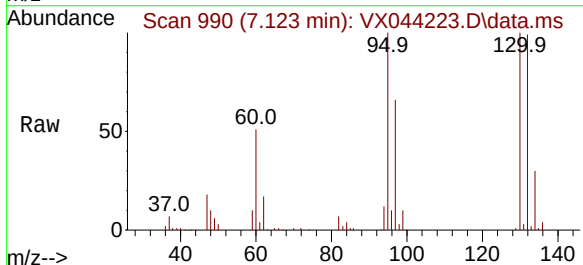
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

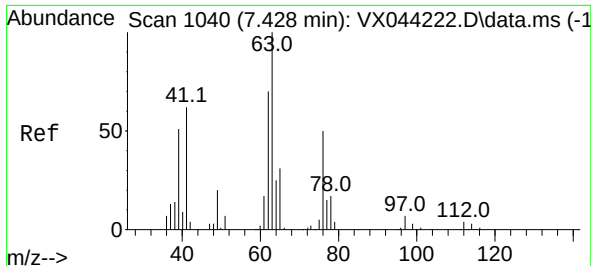
Tgt Ion: 43 Resp: 427893
Ion Ratio Lower Upper
43 100
61 18.2 14.2 21.2
87 12.8 10.2 15.2



#44
Trichloroethene
Concen: 99.497 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:130 Resp: 158990
Ion Ratio Lower Upper
130 100
95 100.2 0.0 201.4





#45

1,2-Dichloropropane

Concen: 98.293 ug/l

RT: 7.428 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

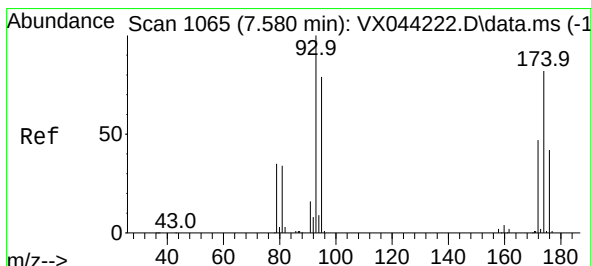
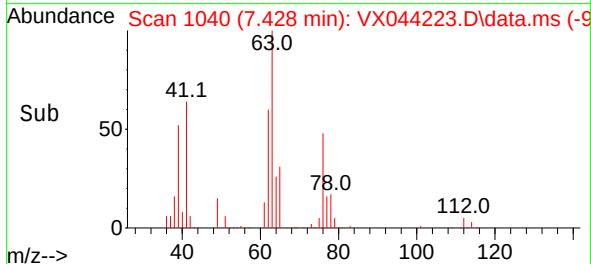
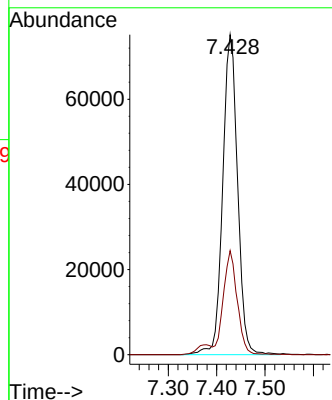
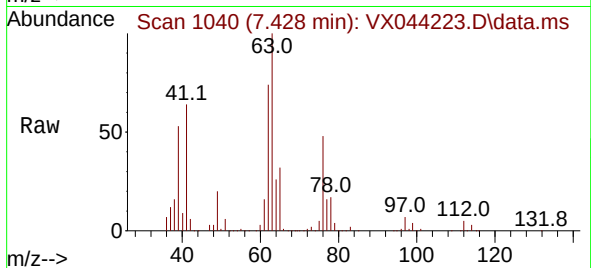
VSTDICC100

Tgt Ion: 63 Resp: 160913

Ion Ratio Lower Upper

63 100

65 32.5 24.6 37.0



#46

Dibromomethane

Concen: 102.607 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

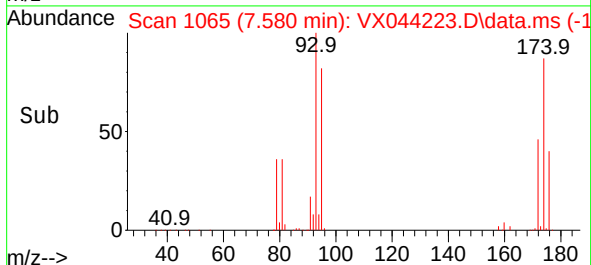
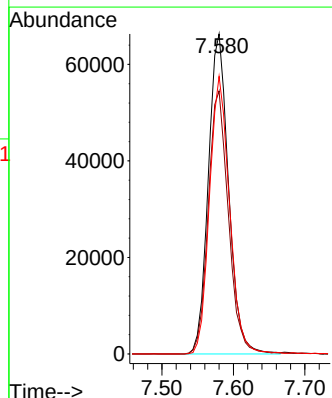
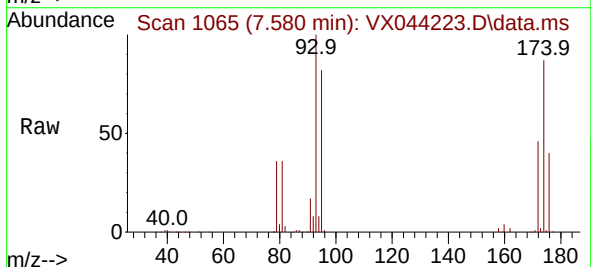
Tgt Ion: 93 Resp: 130316

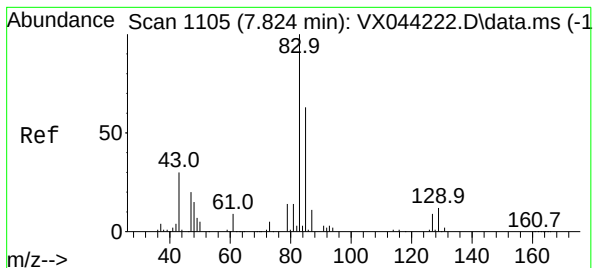
Ion Ratio Lower Upper

93 100

95 82.2 65.4 98.2

174 86.1 67.9 101.9





#47

Bromodichloromethane

Concen: 111.423 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. -0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

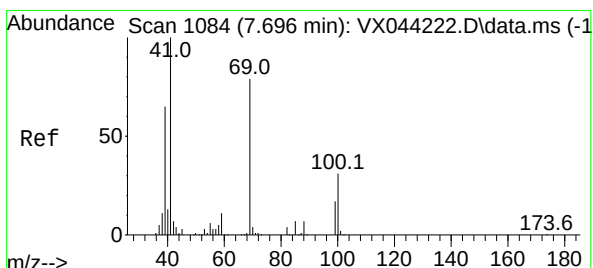
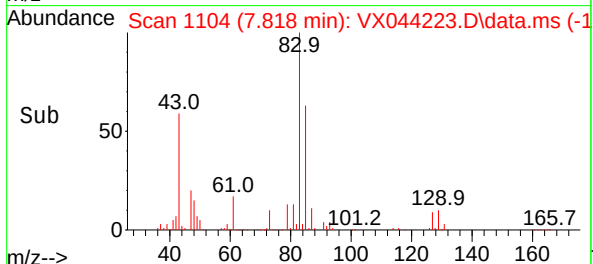
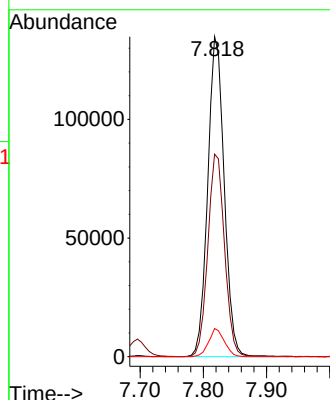
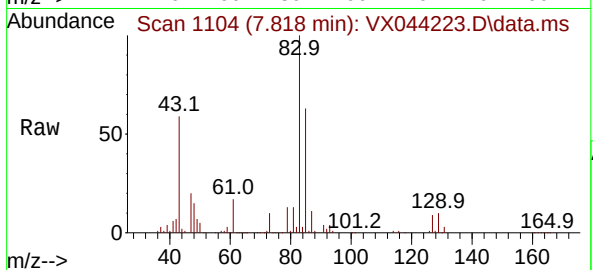
Tgt Ion: 83 Resp: 244401

Ion Ratio Lower Upper

83 100

85 63.2 50.6 75.8

127 8.8 7.3 10.9



#48

Methyl methacrylate

Concen: 102.618 ug/l

RT: 7.696 min Scan# 1084

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

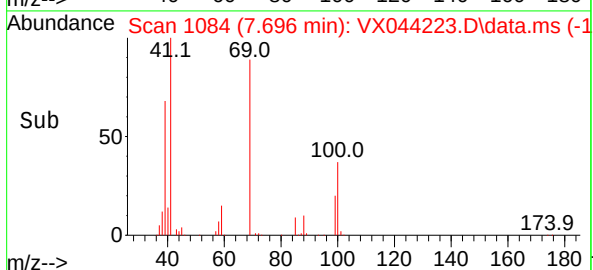
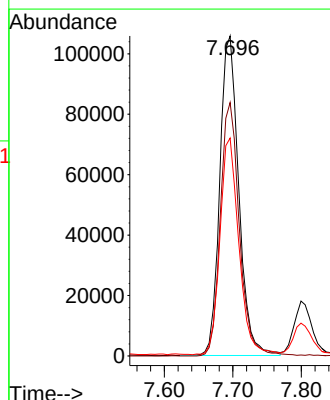
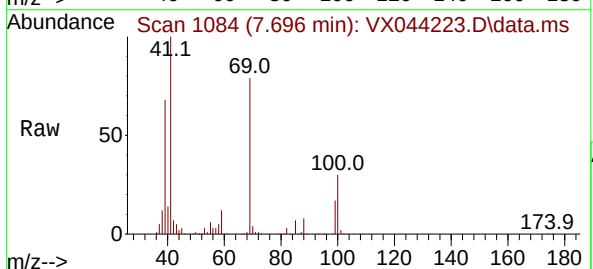
Tgt Ion: 41 Resp: 203116

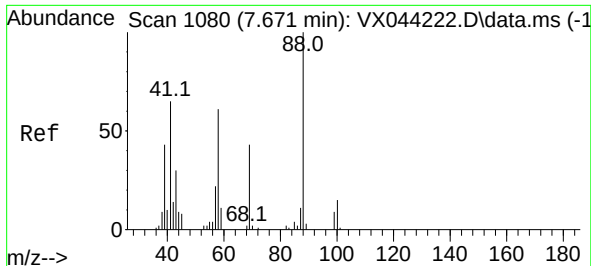
Ion Ratio Lower Upper

41 100

69 79.5 62.4 93.6

39 67.4 53.3 79.9





#49

1,4-Dioxane

Concen: 1830.521 ug/l

RT: 7.665 min Scan# 1

Delta R.T. -0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

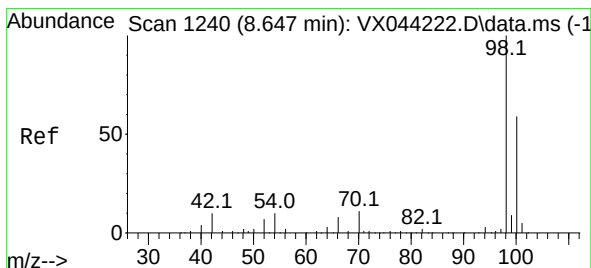
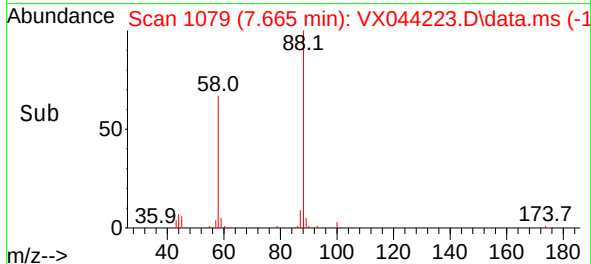
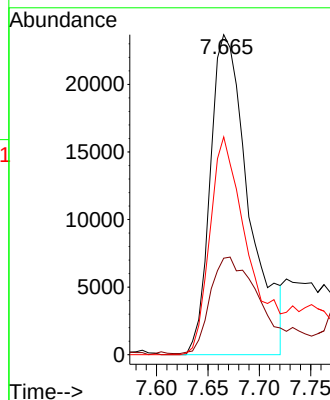
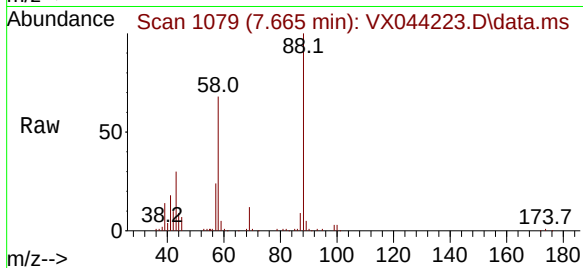
Tgt Ion: 88 Resp: 61921

Ion Ratio Lower Upper

88 100

43 41.4 27.1 40.7#

58 68.6 41.0 61.4#



#50

Toluene-d8

Concen: 105.201 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044223.D

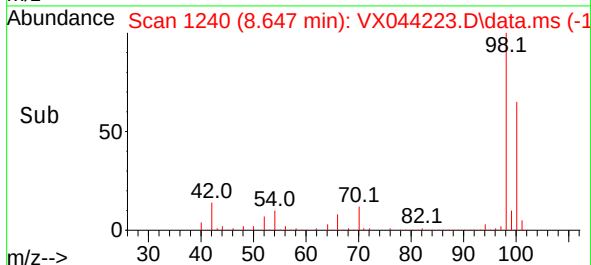
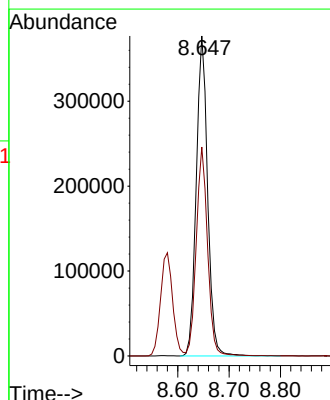
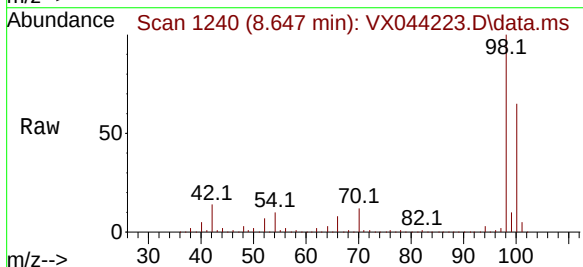
Acq: 11 Dec 2024 12:37

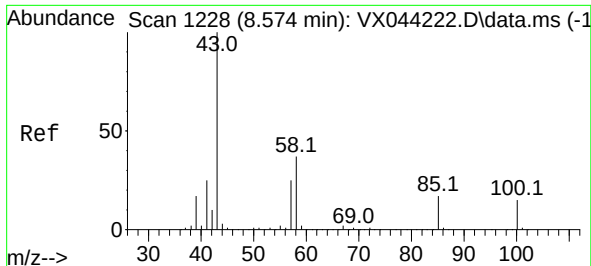
Tgt Ion: 98 Resp: 579477

Ion Ratio Lower Upper

98 100

100 65.1 51.5 77.3

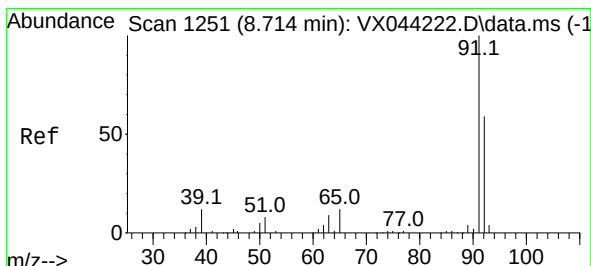
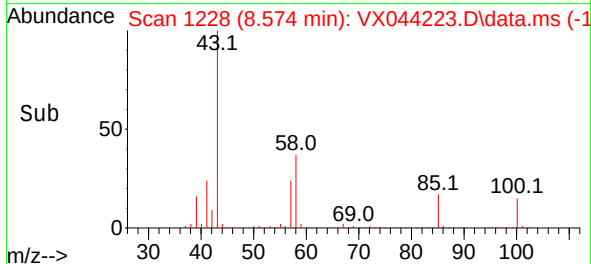
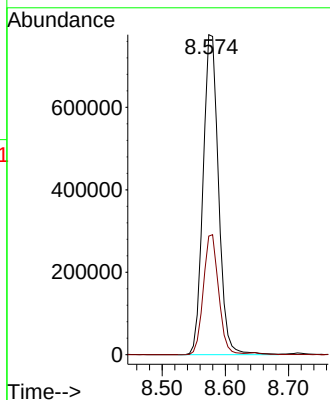
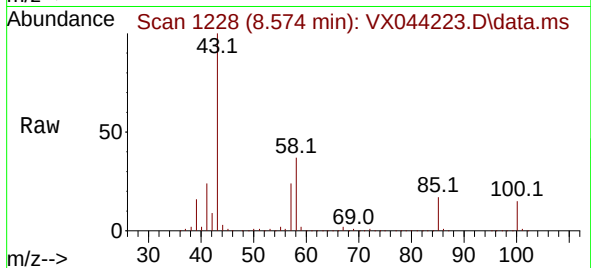




#51
4-Methyl-2-Pentanone
Concen: 504.496 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

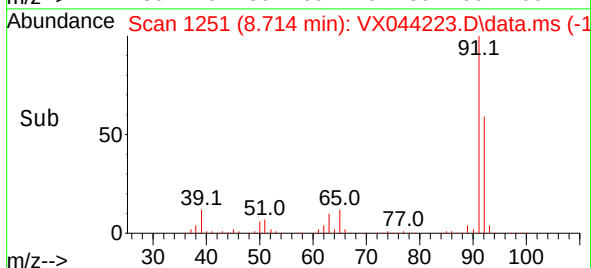
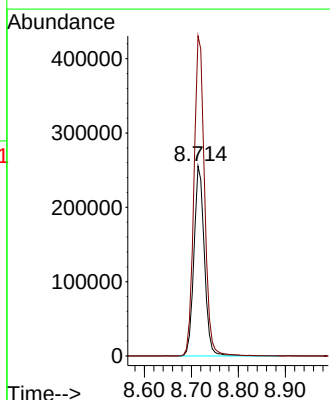
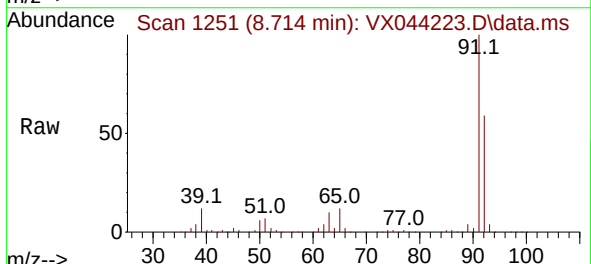
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

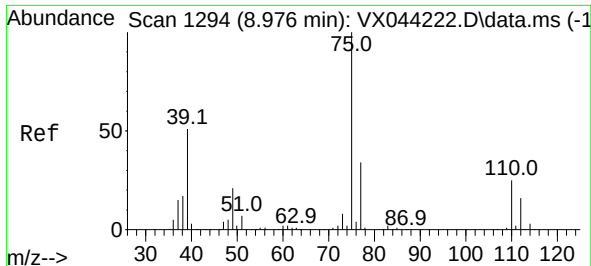
Tgt Ion: 43 Resp: 1322678
Ion Ratio Lower Upper
43 100
58 37.0 29.4 44.0



#52
Toluene
Concen: 98.506 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 92 Resp: 396383
Ion Ratio Lower Upper
92 100
91 171.4 137.0 205.6





#53

t-1,3-Dichloropropene

Concen: 99.321 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

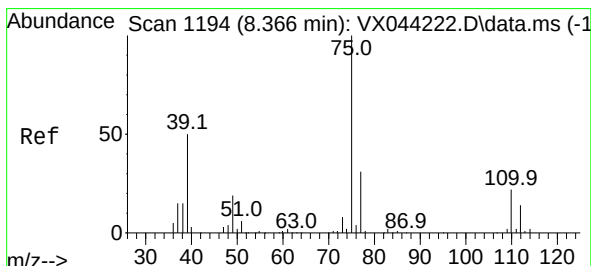
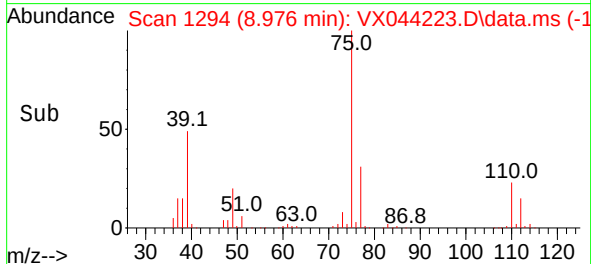
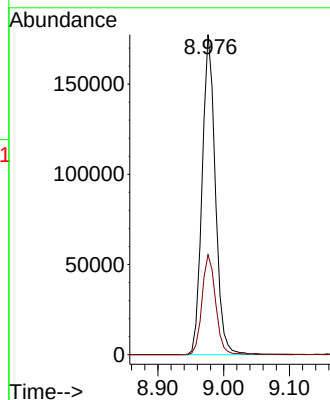
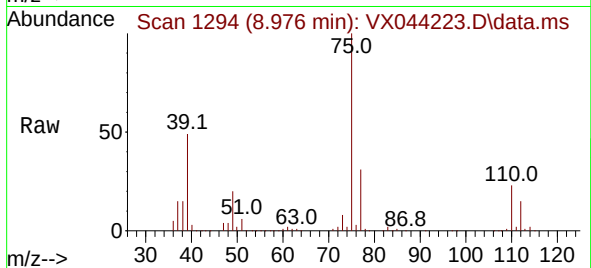
VSTDICC100

Tgt Ion: 75 Resp: 248092

Ion Ratio Lower Upper

75 100

77 31.2 27.2 40.8



#54

cis-1,3-Dichloropropene

Concen: 110.127 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

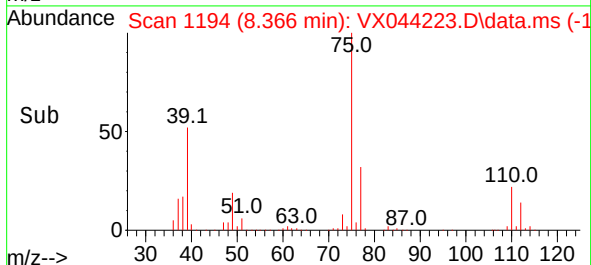
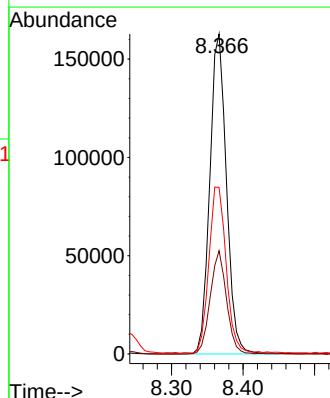
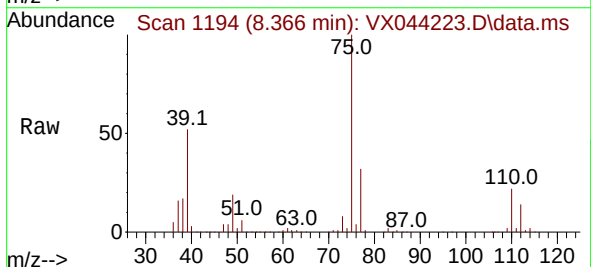
Tgt Ion: 75 Resp: 263014

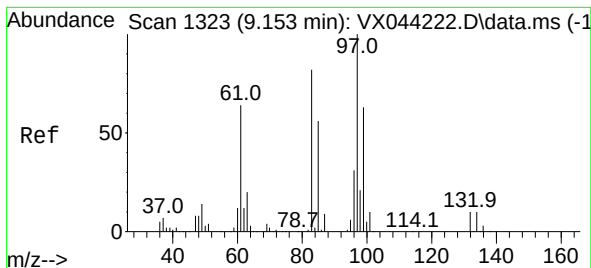
Ion Ratio Lower Upper

75 100

77 32.3 24.7 37.1

39 51.8 40.3 60.5



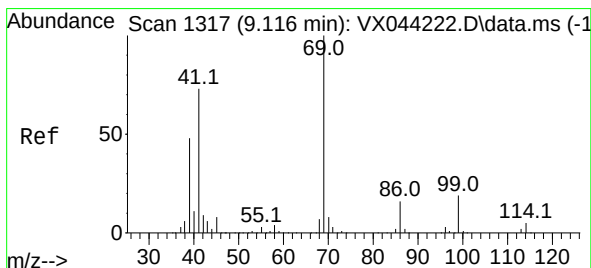
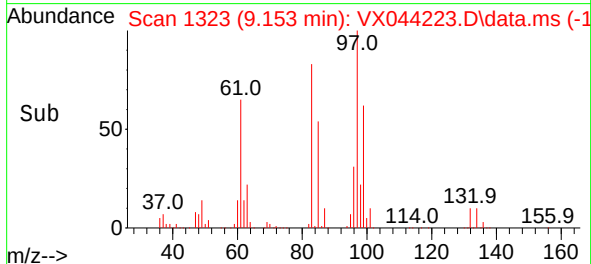
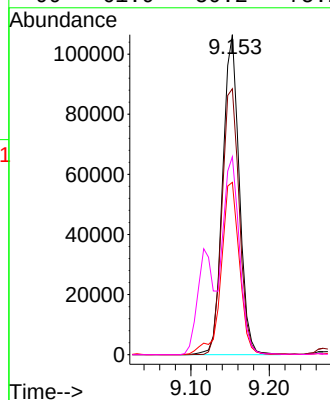
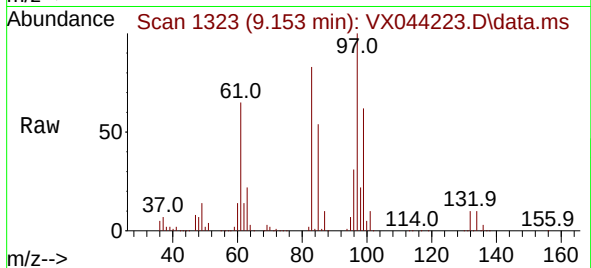


#55
1,1,2-Trichloroethane
Concen: 98.441 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tgt Ion: 97 Resp: 157366

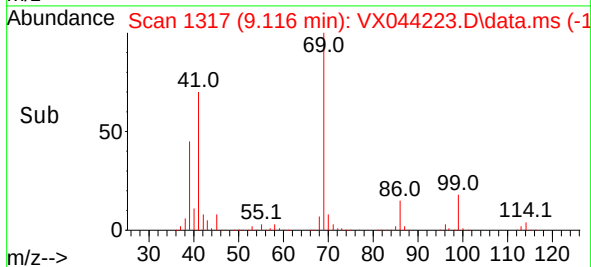
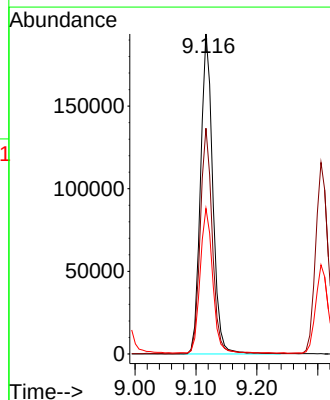
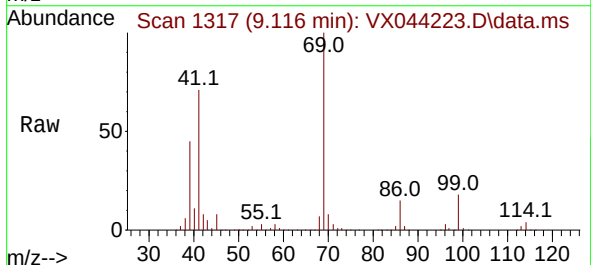
Ion	Ratio	Lower	Upper
97	100		
83	83.1	65.3	97.9
85	53.8	44.6	67.0
99	61.9	50.2	75.2

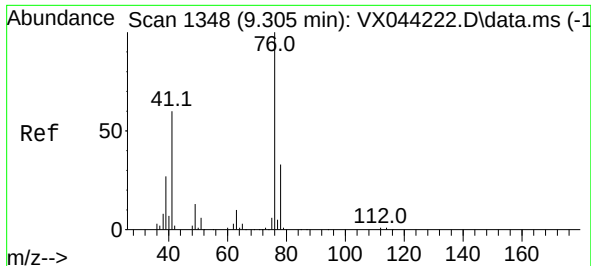


#56
Ethyl methacrylate
Concen: 107.442 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 69 Resp: 271146

Ion	Ratio	Lower	Upper
69	100		
41	69.4	56.6	85.0
39	46.1	37.4	56.0

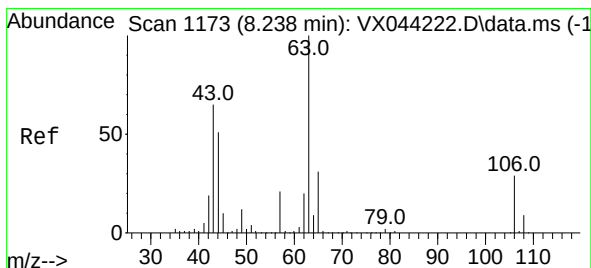
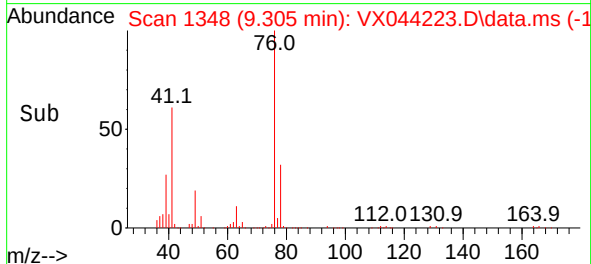
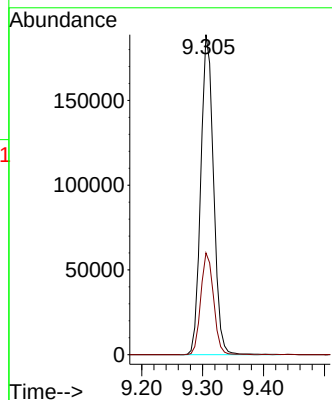
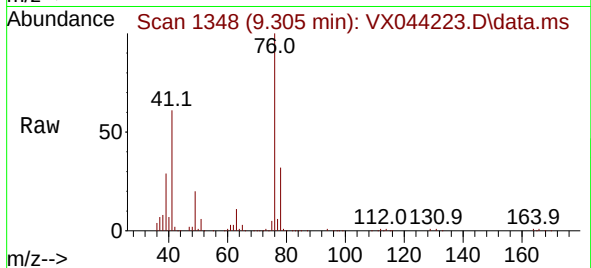




#57
1,3-Dichloropropane
Concen: 98.704 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

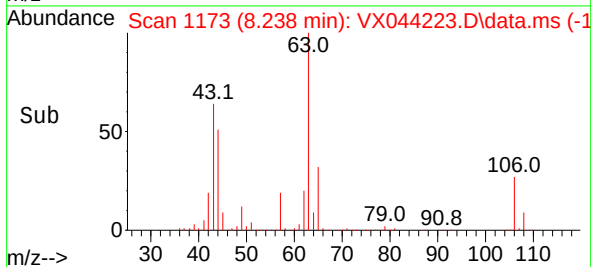
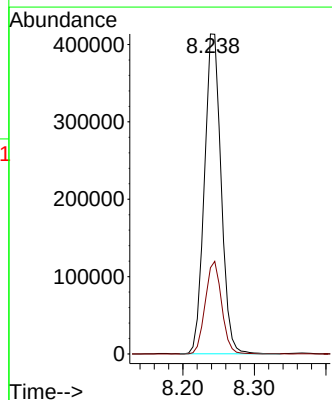
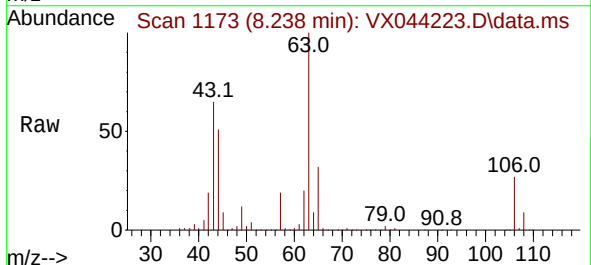
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

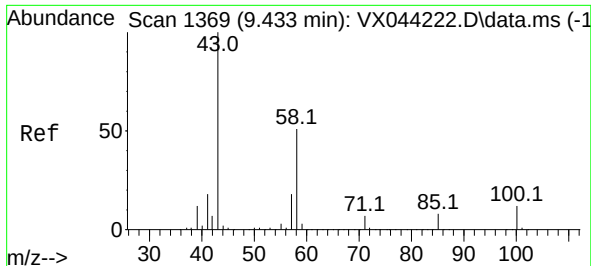
Tgt Ion: 76 Resp: 274642
Ion Ratio Lower Upper
76 100
78 31.9 26.5 39.7



#58
2-Chloroethyl Vinyl ether
Concen: 527.342 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 63 Resp: 671233
Ion Ratio Lower Upper
63 100
106 28.4 22.8 34.2

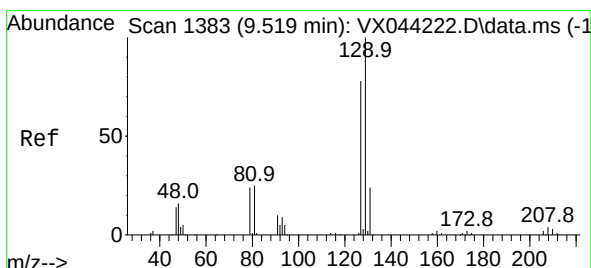
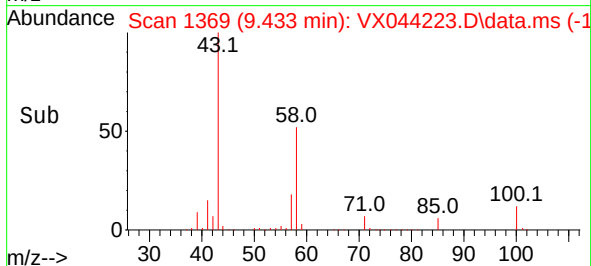
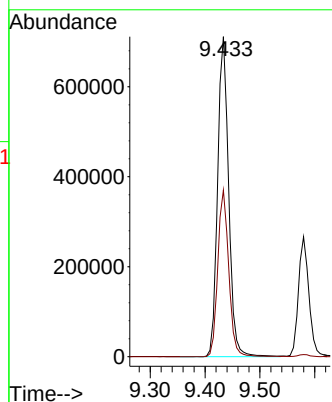
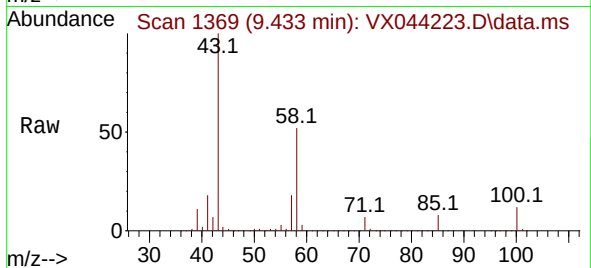




#59
2-Hexanone
Concen: 521.401 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

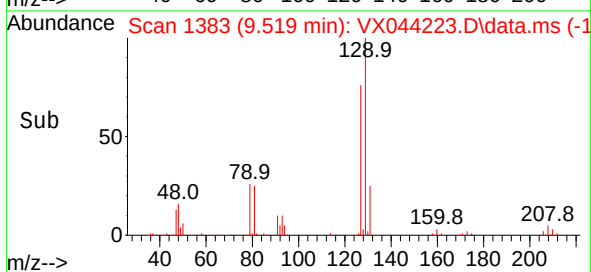
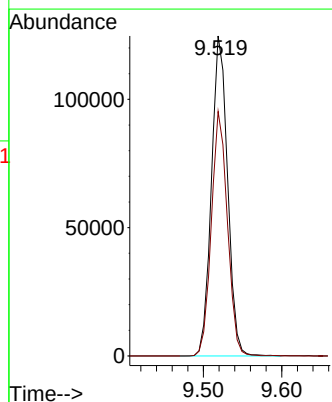
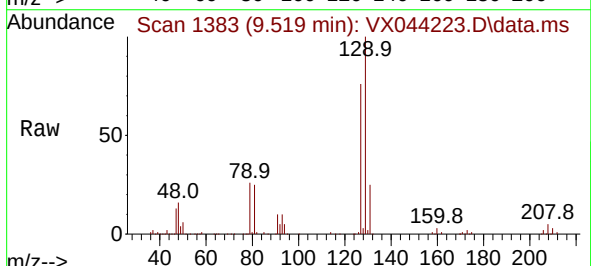
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

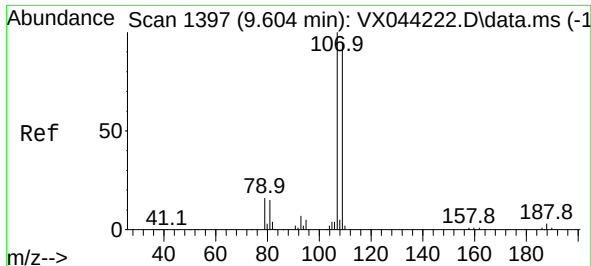
Tgt Ion: 43 Resp: 989466
Ion Ratio Lower Upper
43 100
58 51.9 25.7 77.0



#60
Dibromochloromethane
Concen: 99.480 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 129 Resp: 178135
Ion Ratio Lower Upper
129 100
127 76.0 38.5 115.3





#61

1,2-Dibromoethane

Concen: 105.371 ug/l

RT: 9.610 min Scan# 1397

Delta R.T. 0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

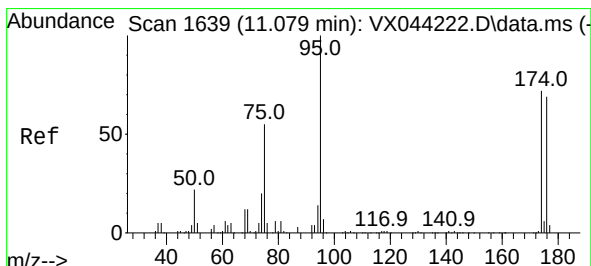
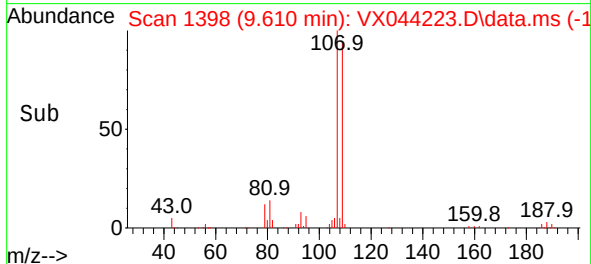
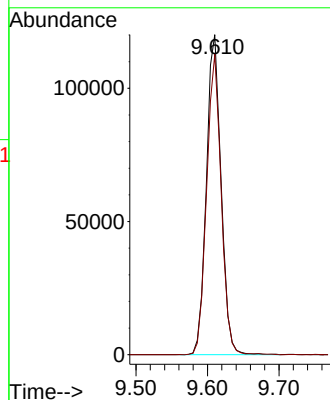
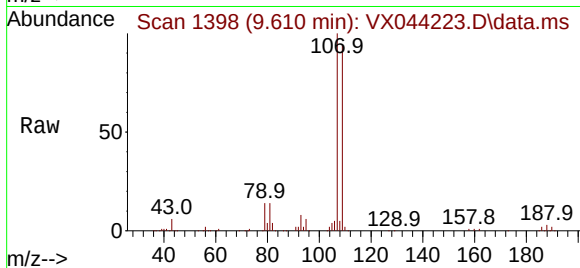
VSTDIC100

Tgt Ion:107 Resp: 171458

Ion Ratio Lower Upper

107 100

109 93.1 77.0 115.4



#62

4-Bromofluorobenzene

Concen: 105.830 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

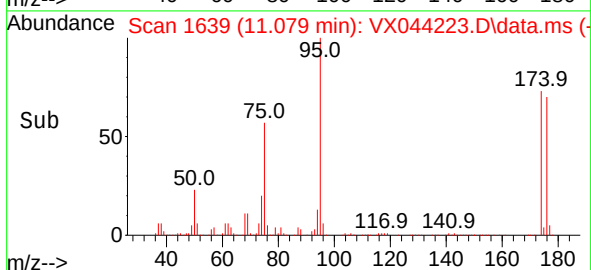
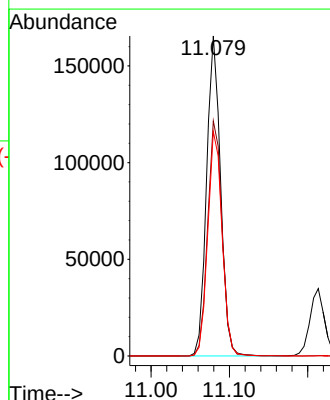
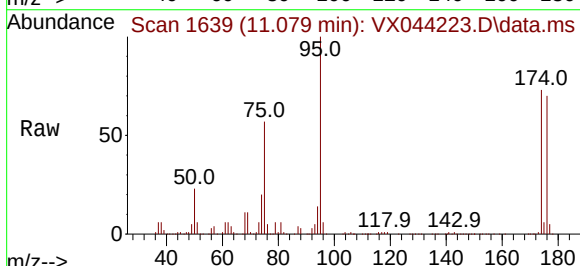
Tgt Ion: 95 Resp: 203694

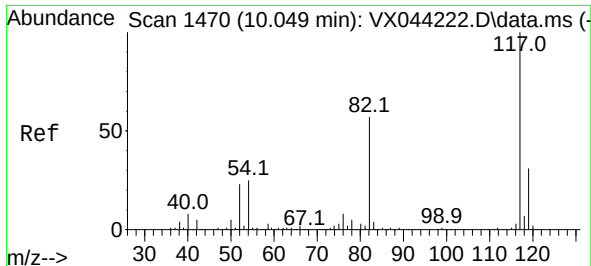
Ion Ratio Lower Upper

95 100

174 76.0 0.0 145.8

176 72.0 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

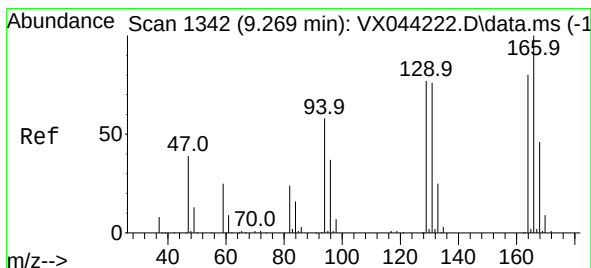
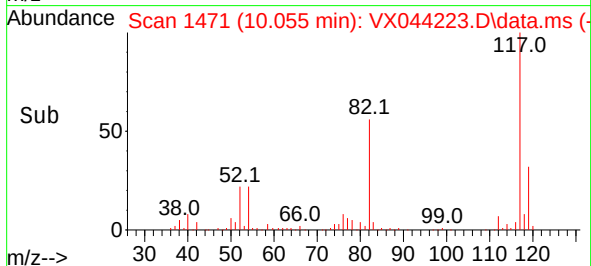
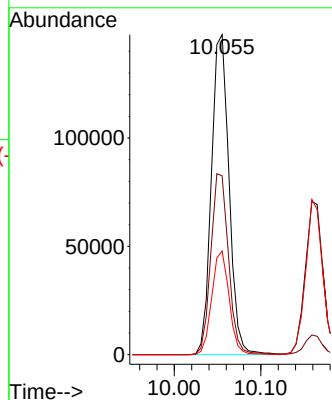
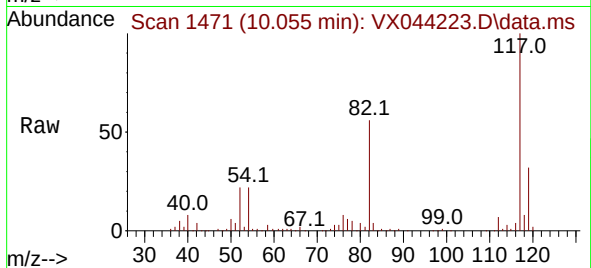
Tgt Ion:117 Resp: 209164

Ion Ratio Lower Upper

117 100

82 55.9 45.8 68.8

119 32.4 25.0 37.4



#64

Tetrachloroethene

Concen: 94.131 ug/l

RT: 9.269 min Scan# 1342

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Tgt Ion:164 Resp: 130678

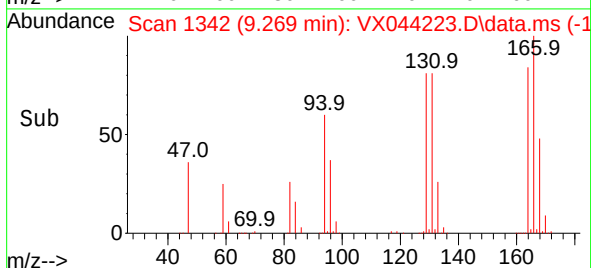
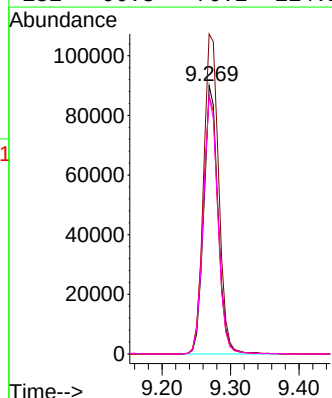
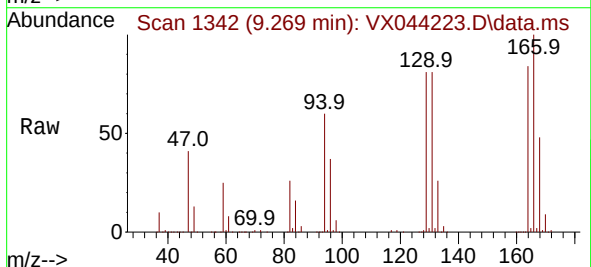
Ion Ratio Lower Upper

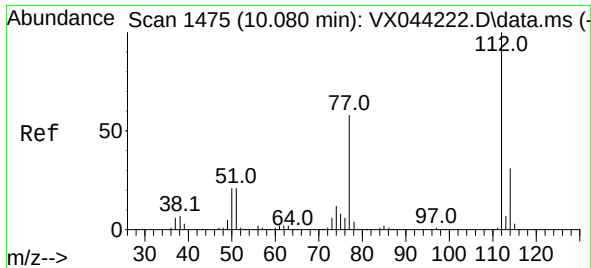
164 100

166 119.2 100.4 150.6

129 96.1 77.2 115.8

131 96.3 76.2 114.2

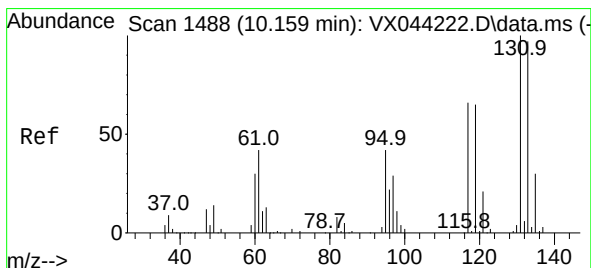
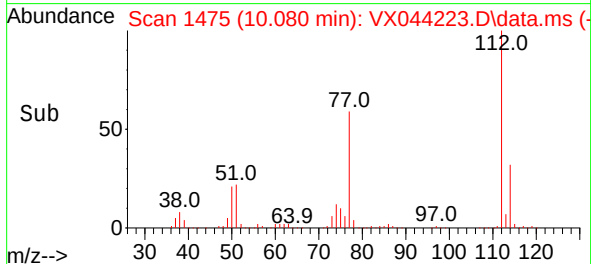
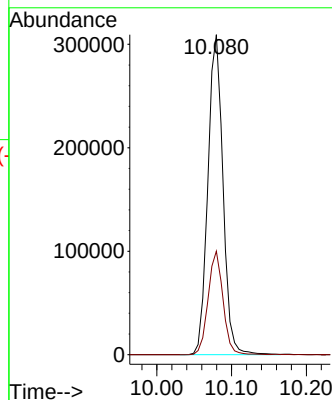
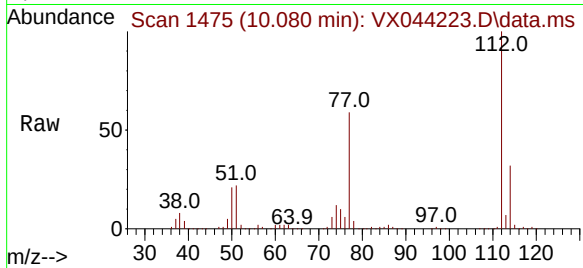




#65
Chlorobenzene
Concen: 96.650 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

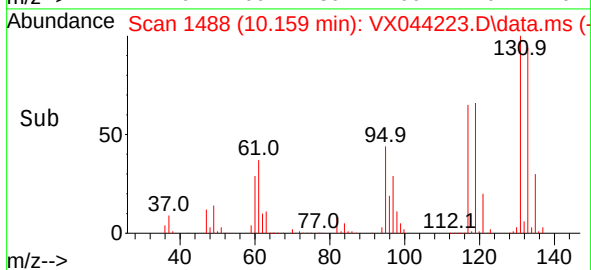
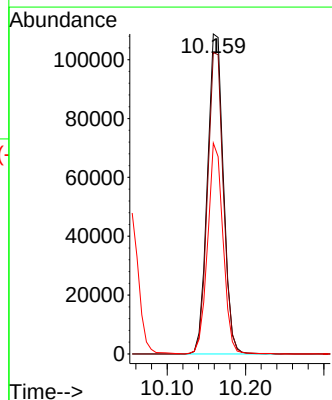
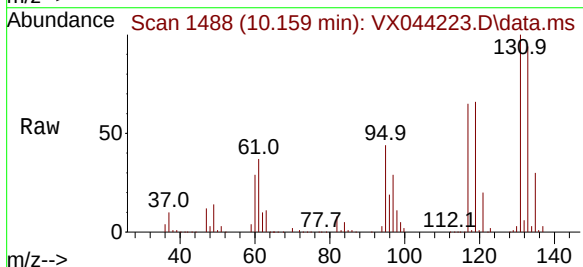
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

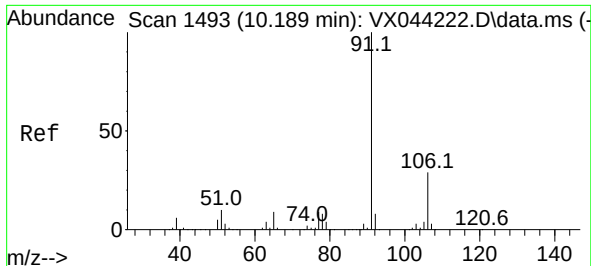
Tgt Ion:112 Resp: 433179
Ion Ratio Lower Upper
112 100
114 32.3 25.0 37.6



#66
1,1,1,2-Tetrachloroethane
Concen: 106.831 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:131 Resp: 153882
Ion Ratio Lower Upper
131 100
133 93.6 47.3 141.8
119 63.5 31.6 95.0





#67

Ethyl Benzene

Concen: 98.906 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

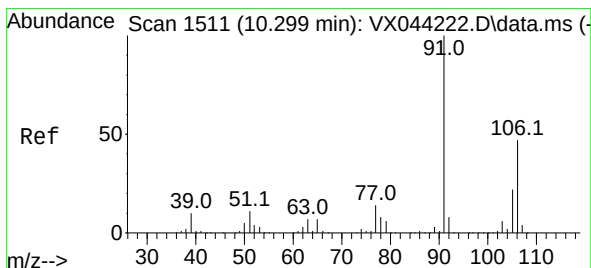
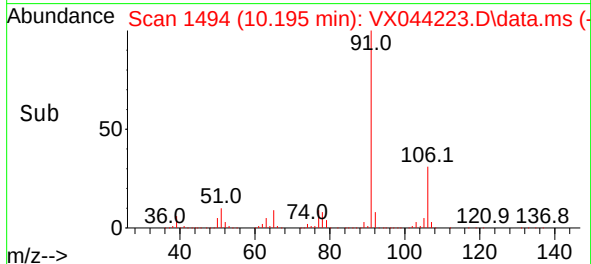
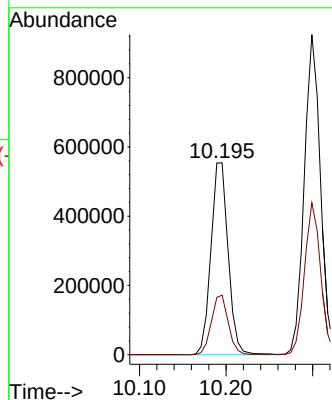
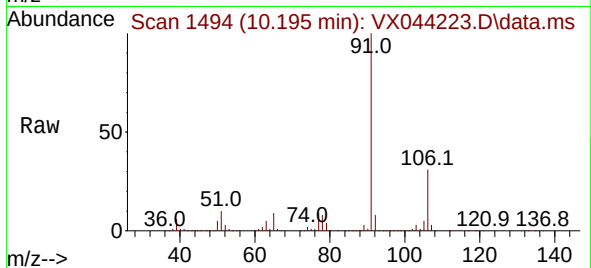
VSTDICC100

Tgt Ion: 91 Resp: 765930

Ion Ratio Lower Upper

91 100

106 31.0 23.5 35.3



#68

m/p-Xylenes

Concen: 201.171 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX044223.D

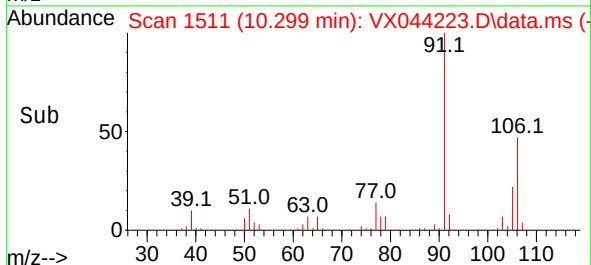
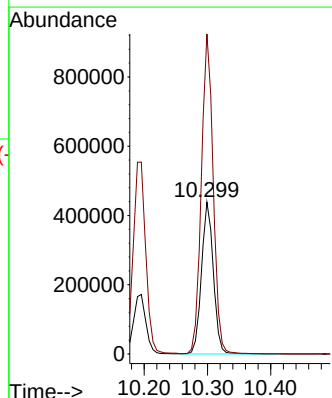
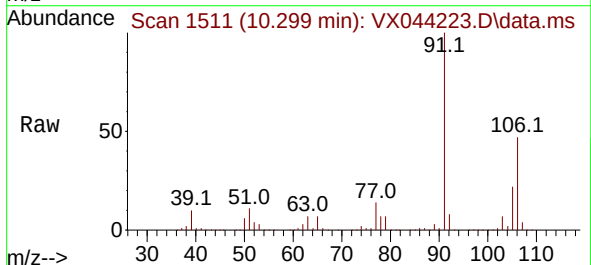
Acq: 11 Dec 2024 12:37

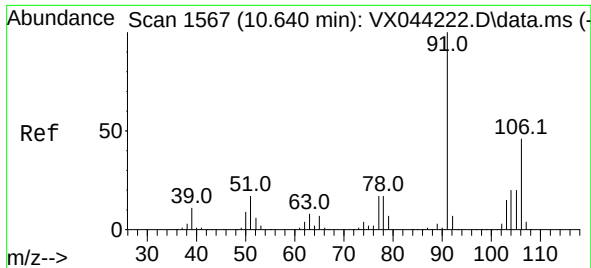
Tgt Ion:106 Resp: 571648

Ion Ratio Lower Upper

106 100

91 211.0 170.2 255.2

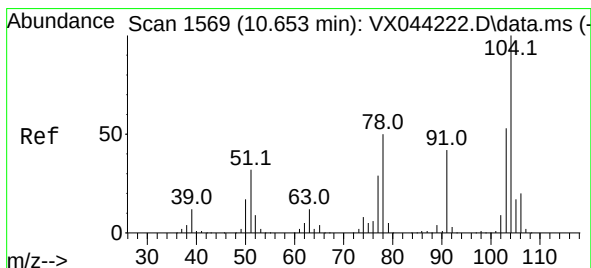
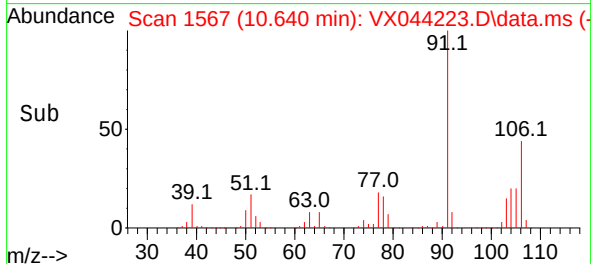
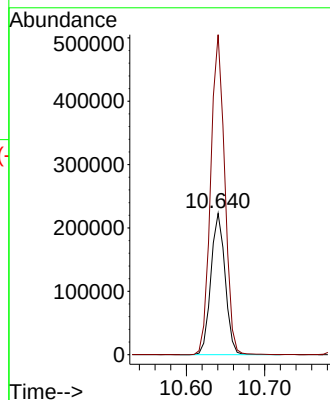
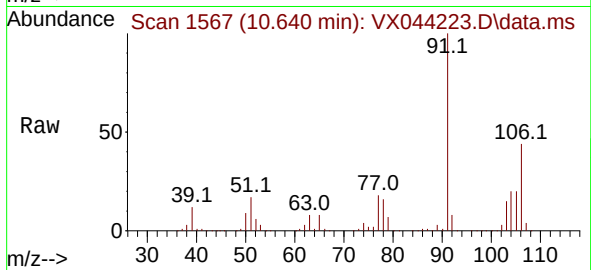




#69
o-Xylene
Concen: 97.597 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

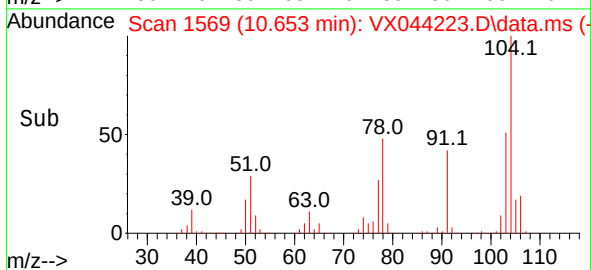
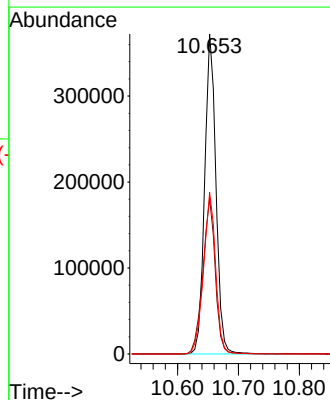
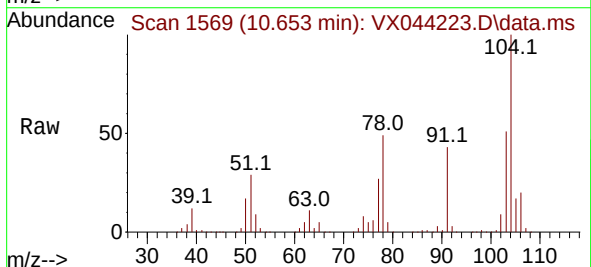
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

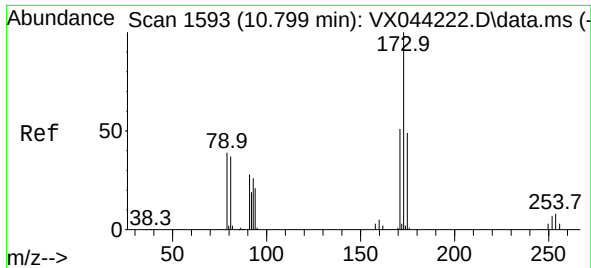
Tgt Ion:106 Resp: 280603
Ion Ratio Lower Upper
106 100
91 223.9 112.3 337.0



#70
Styrene
Concen: 104.159 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:104 Resp: 480077
Ion Ratio Lower Upper
104 100
78 53.5 44.6 67.0
103 54.5 45.4 68.0

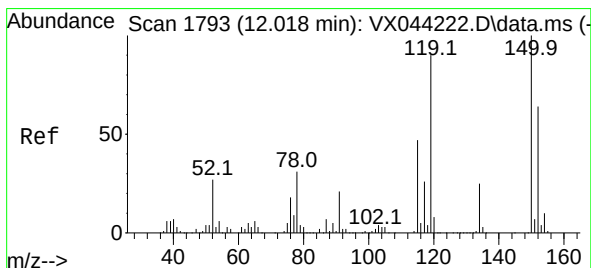
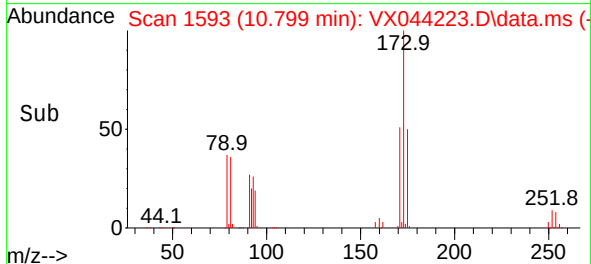
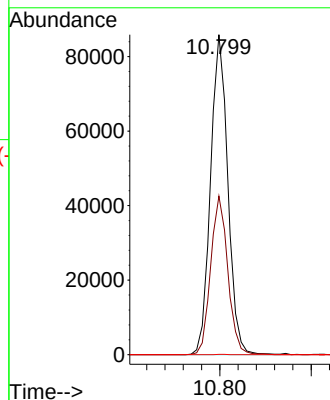
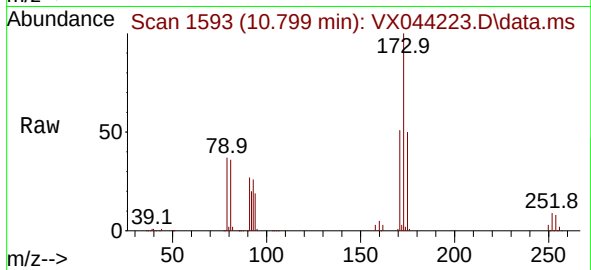




#71
Bromoform
Concen: 99.723 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

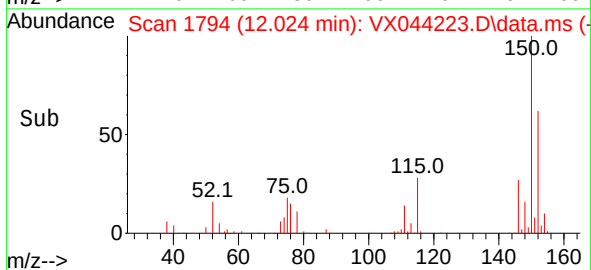
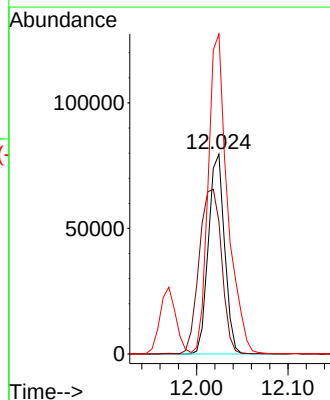
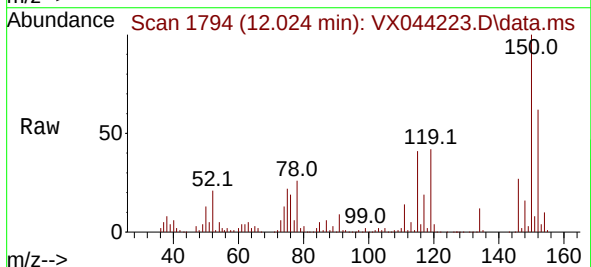
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

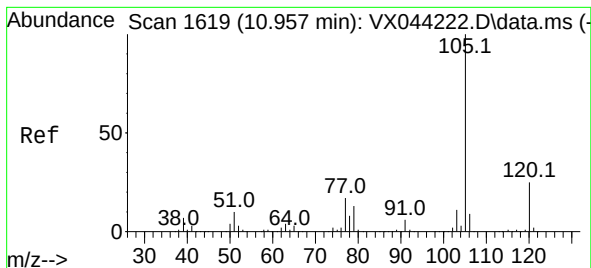
Tgt Ion:173 Resp: 112482
Ion Ratio Lower Upper
173 100
175 49.2 23.8 71.4
254 0.1 0.0 0.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:152 Resp: 97670
Ion Ratio Lower Upper
152 100
115 114.3 44.5 133.3
150 190.6 0.0 353.8





#73

Isopropylbenzene

Concen: 97.894 ug/l

RT: 10.964 min Scan# 1620

Delta R.T. 0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

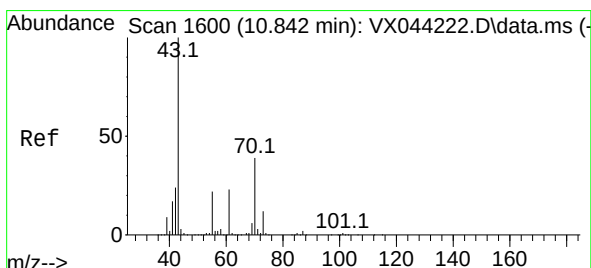
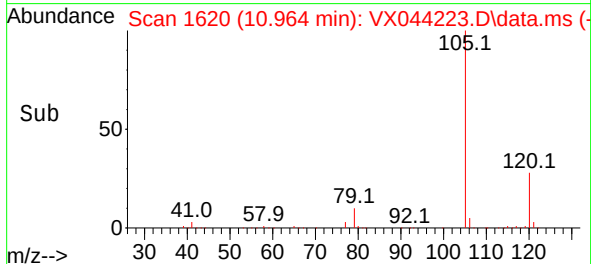
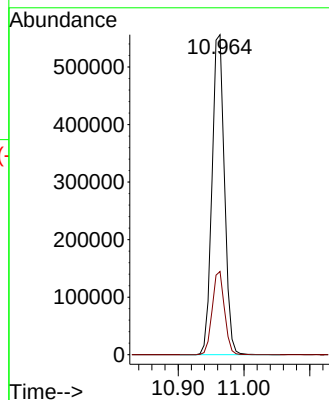
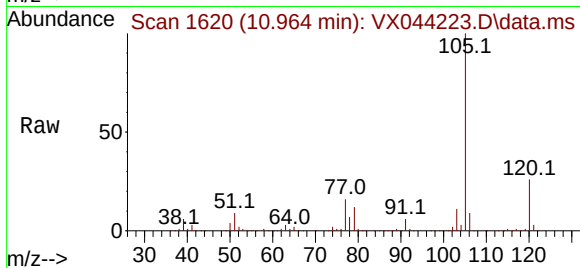
VSTDICC100

Tgt Ion:105 Resp: 731955

Ion Ratio Lower Upper

105 100

120 25.7 13.1 39.3



#74

N-ethyl acetate

Concen: 107.485 ug/l

RT: 10.842 min Scan# 1600

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 371420

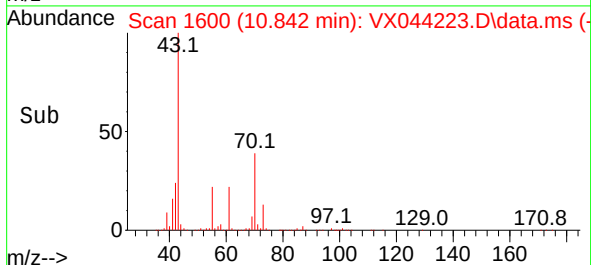
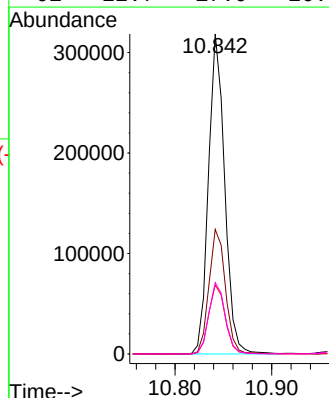
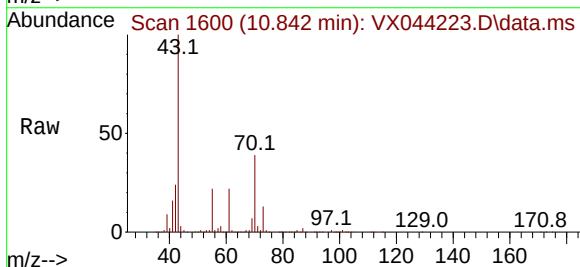
Ion Ratio Lower Upper

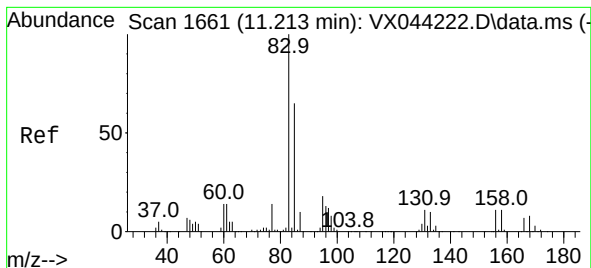
43 100

70 39.7 31.9 47.9

55 22.2 17.9 26.9

61 22.7 17.9 26.9

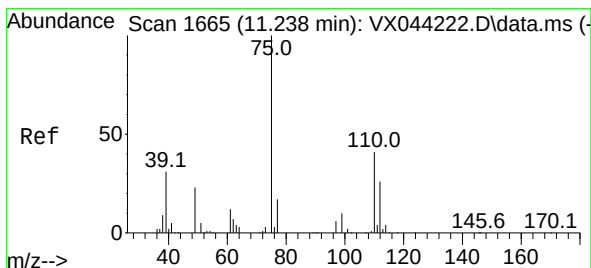
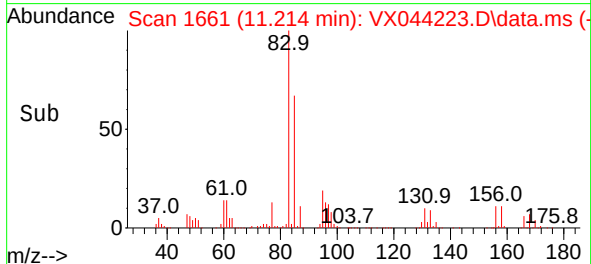
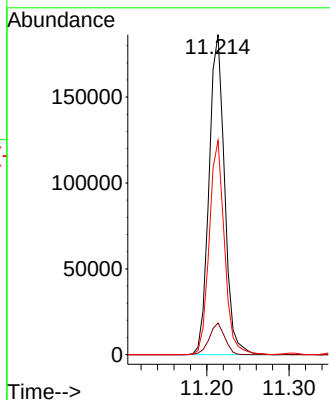
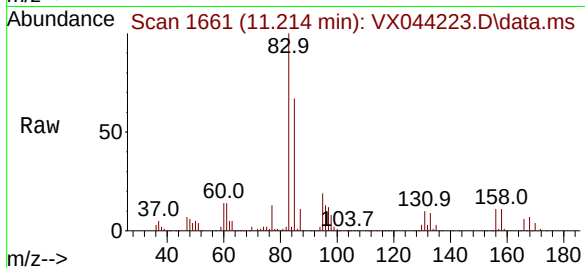




#75
1,1,2,2-Tetrachloroethane
Concen: 94.491 ug/l
RT: 11.214 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

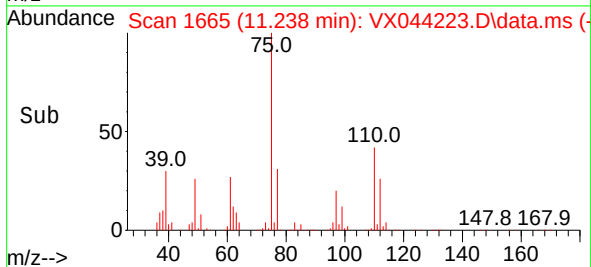
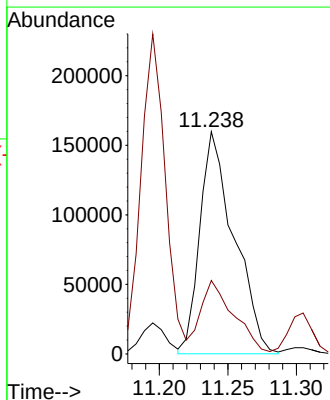
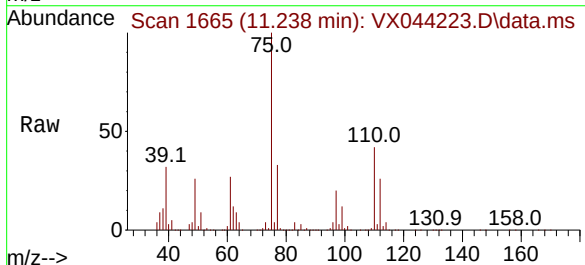
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

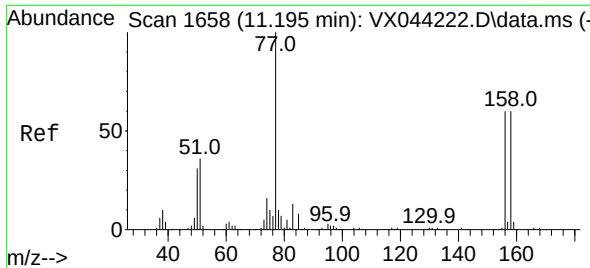
Tgt Ion: 83 Resp: 245395
Ion Ratio Lower Upper
83 100
131 9.8 5.1 15.4
85 65.4 32.5 97.4



#76
1,2,3-Trichloropropane
Concen: 125.569 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 75 Resp: 278299
Ion Ratio Lower Upper
75 100
77 32.2 20.9 62.7

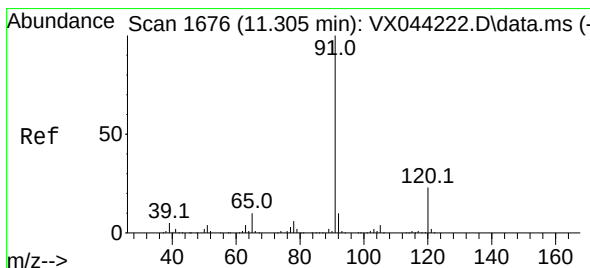
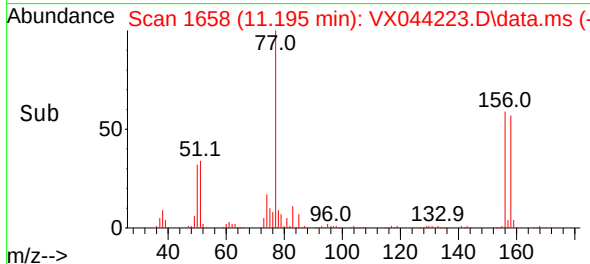
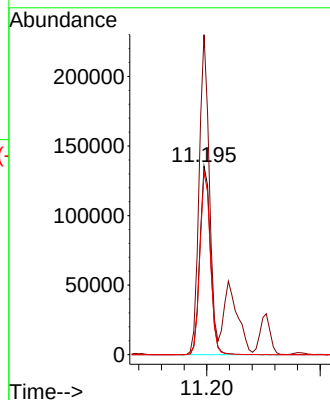
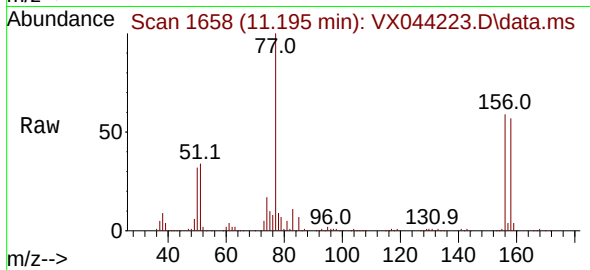




#77
Bromobenzene
Concen: 96.874 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

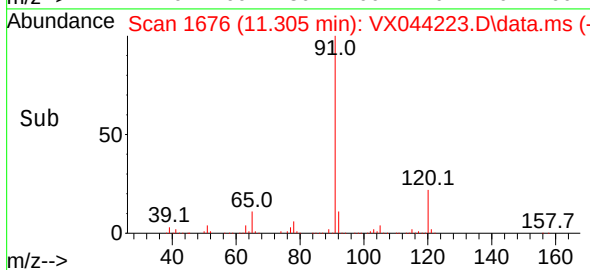
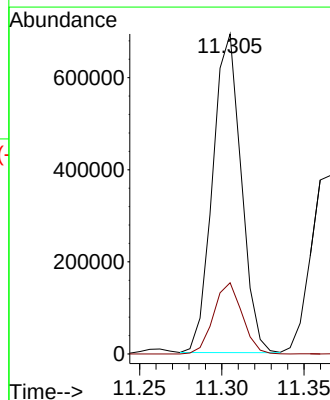
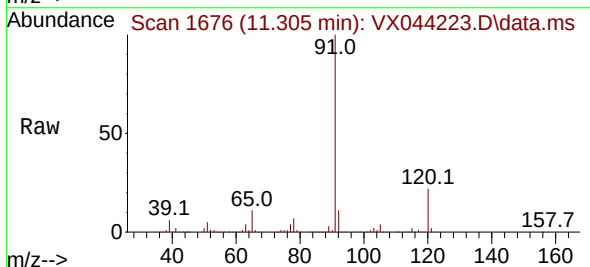
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

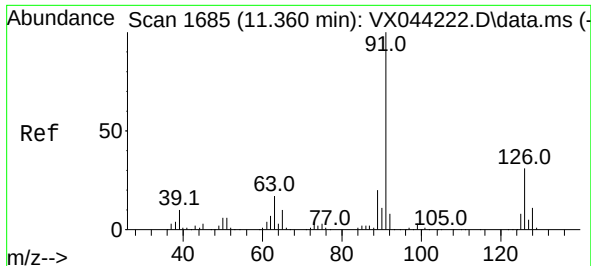
Tgt Ion:156 Resp: 175647
Ion Ratio Lower Upper
156 100
77 162.7 82.6 247.8
158 96.2 48.8 146.4



#78
n-propylbenzene
Concen: 101.242 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 91 Resp: 836676
Ion Ratio Lower Upper
91 100
120 22.4 11.0 33.0





#79

2-Chlorotoluene

Concen: 94.377 ug/l

RT: 11.366 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

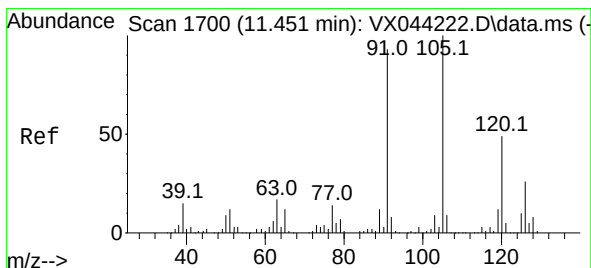
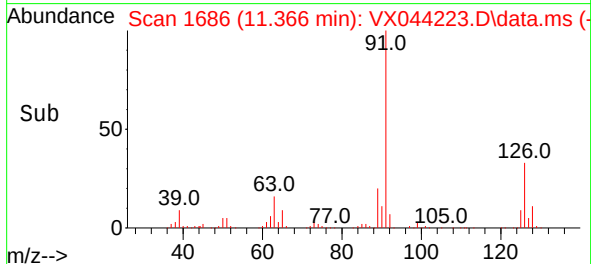
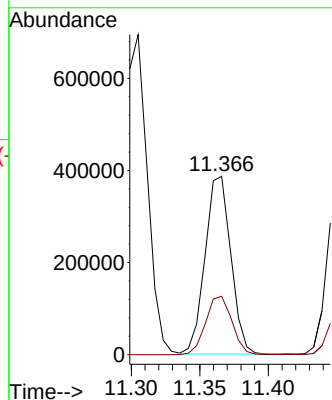
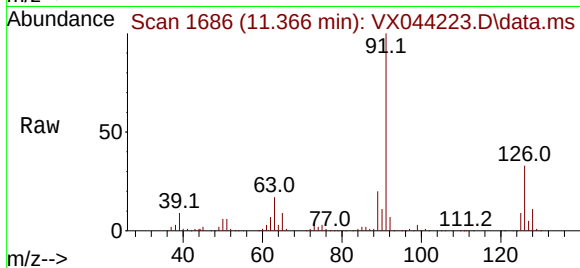
VSTDICC100

Tgt Ion: 91 Resp: 504407

Ion Ratio Lower Upper

91 100

126 33.5 16.4 49.1



#80

1,3,5-Trimethylbenzene

Concen: 97.570 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX044223.D

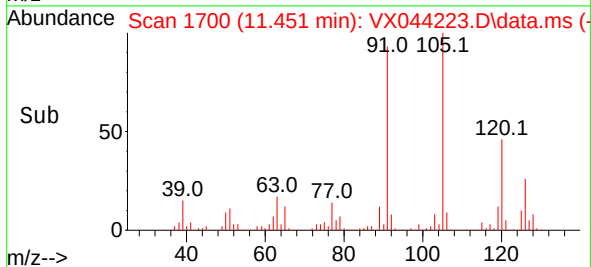
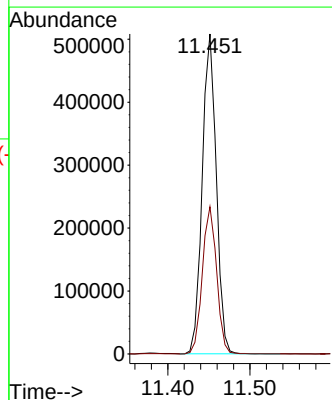
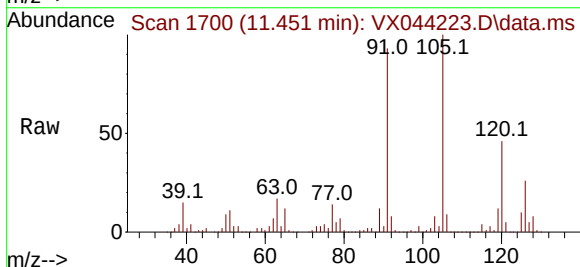
Acq: 11 Dec 2024 12:37

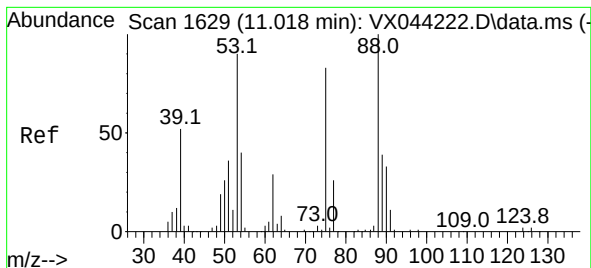
Tgt Ion:105 Resp: 604993

Ion Ratio Lower Upper

105 100

120 46.7 23.8 71.4

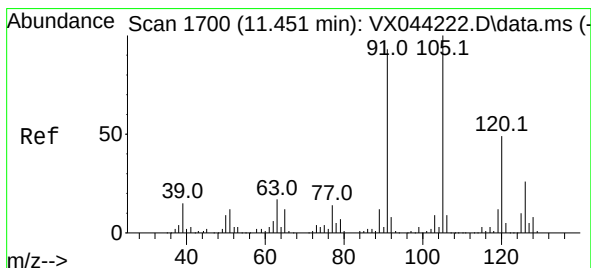
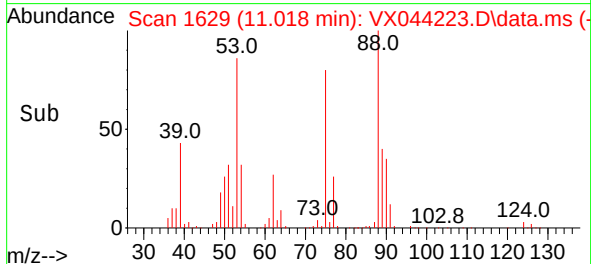
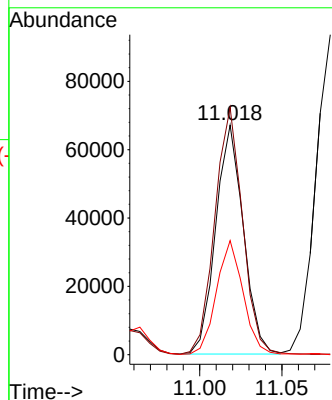
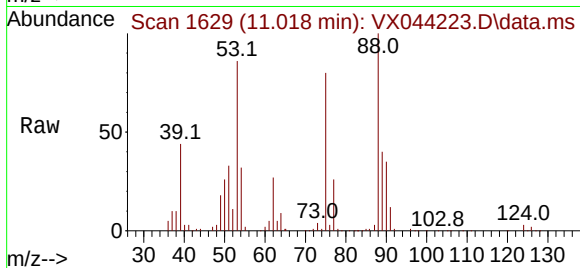




#81
trans-1,4-Dichloro-2-butene
Concen: 97.165 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

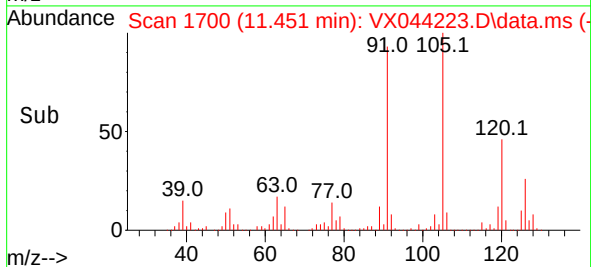
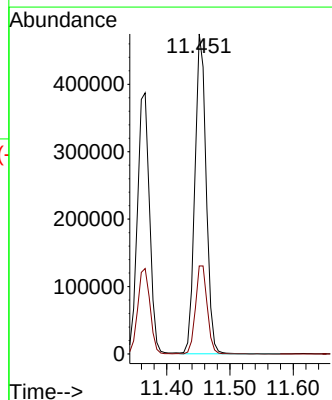
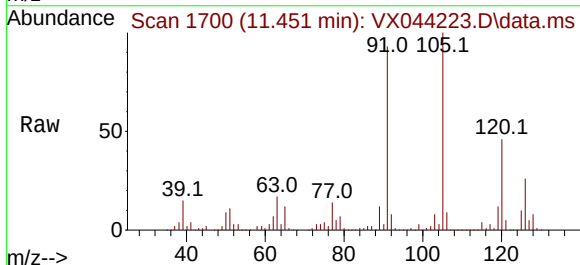
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

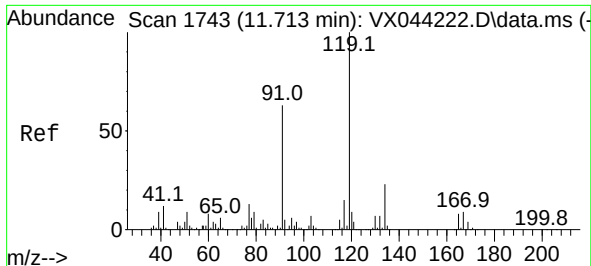
Tgt Ion:	75	Resp:	78453
Ion Ratio	Lower	Upper	
75	100		
53	107.9	93.6	140.4
89	47.8	37.3	55.9



#82
4-Chlorotoluene
Concen: 99.384 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:	91	Resp:	588197
Ion Ratio	Lower	Upper	
91	100		
126	28.5	14.5	43.5

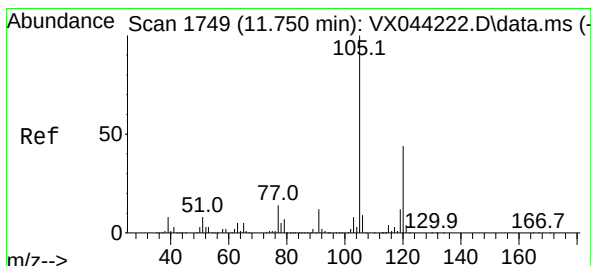
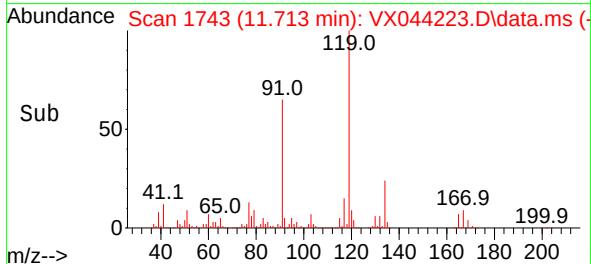
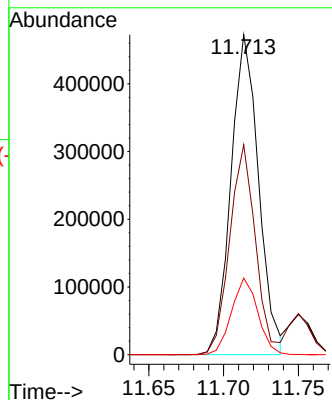
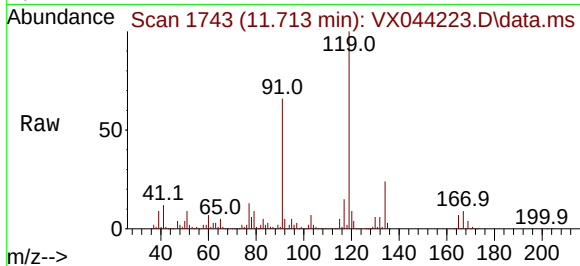




#83
tert-Butylbenzene
Concen: 99.013 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

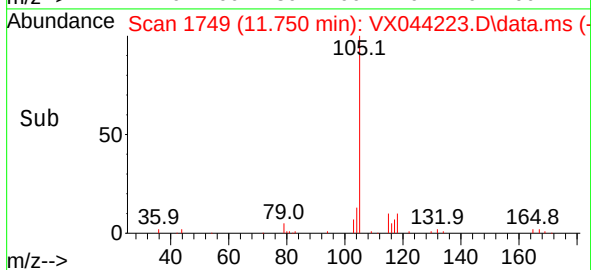
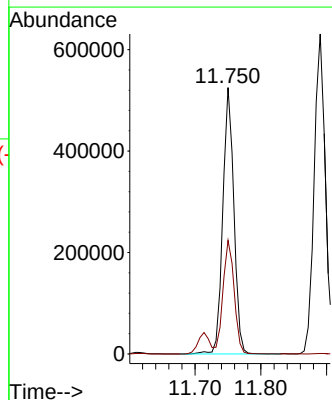
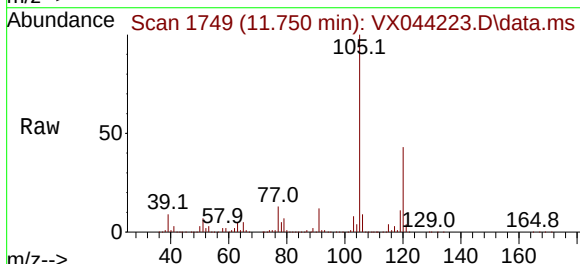
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

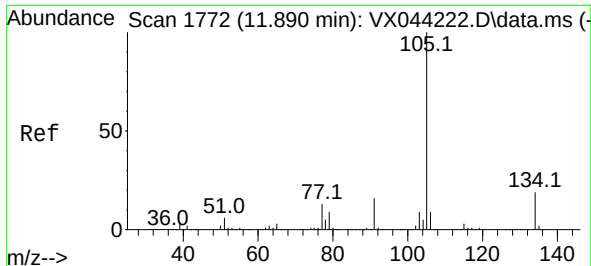
Tgt Ion:119 Resp: 606738
Ion Ratio Lower Upper
119 100
91 61.5 30.9 92.5
134 22.8 11.5 34.4



#84
1,2,4-Trimethylbenzene
Concen: 100.994 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:105 Resp: 614999
Ion Ratio Lower Upper
105 100
120 43.3 21.7 65.1





#85

sec-Butylbenzene

Concen: 99.889 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

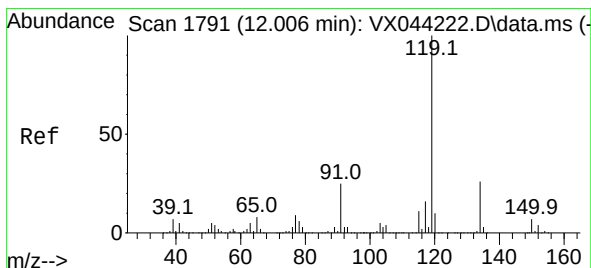
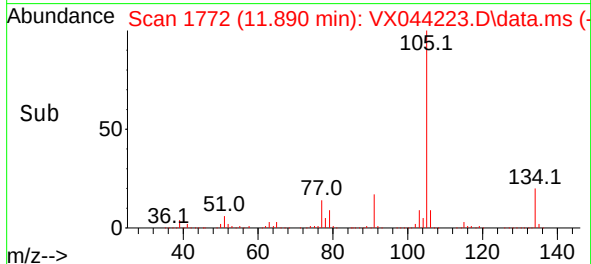
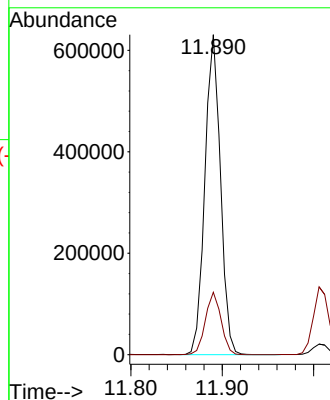
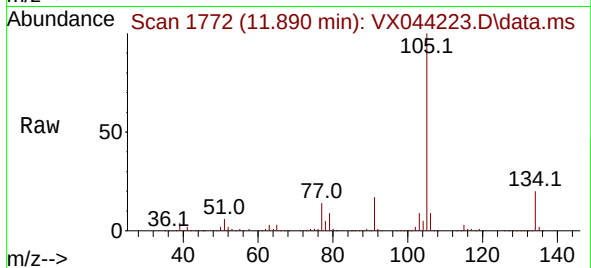
VSTDICC100

Tgt Ion:105 Resp: 743098

Ion Ratio Lower Upper

105 100

134 19.7 9.8 29.4



#86

p-Isopropyltoluene

Concen: 100.847 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

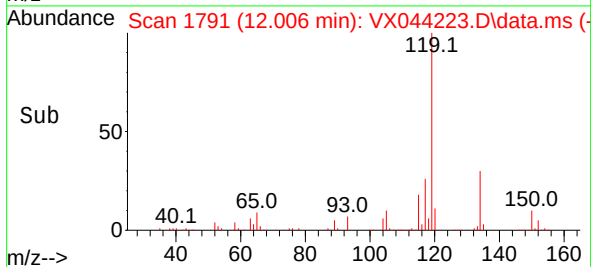
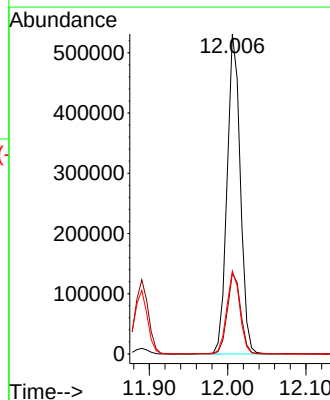
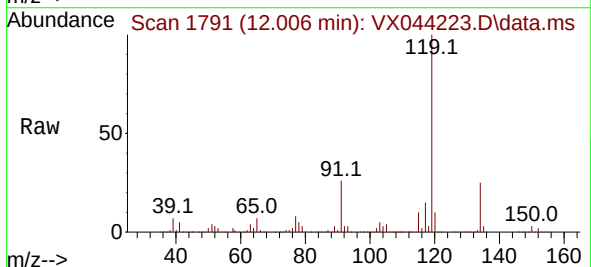
Tgt Ion:119 Resp: 624416

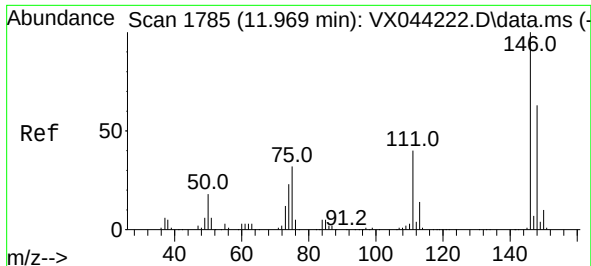
Ion Ratio Lower Upper

119 100

134 25.4 12.8 38.4

91 25.6 13.0 39.0





#87

1,3-Dichlorobenzene

Concen: 100.210 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

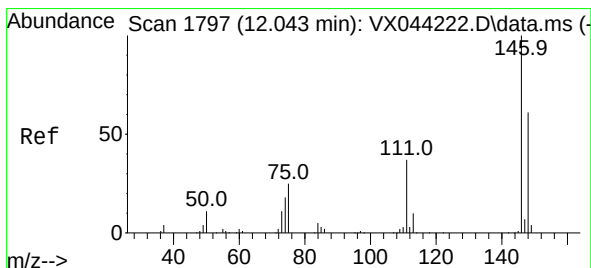
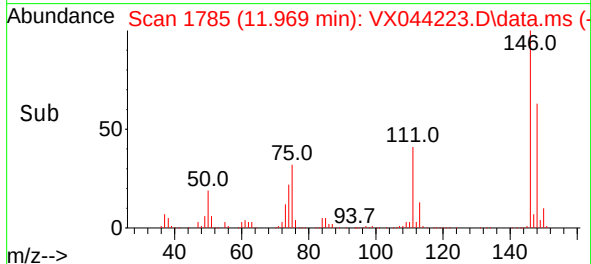
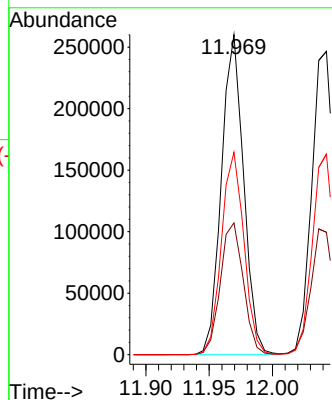
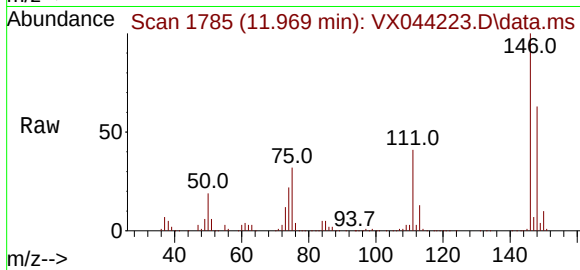
Tgt Ion:146 Resp: 317377

Ion Ratio Lower Upper

146 100

111 42.7 21.4 64.2

148 64.1 31.7 95.1



#88

1,4-Dichlorobenzene

Concen: 97.271 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

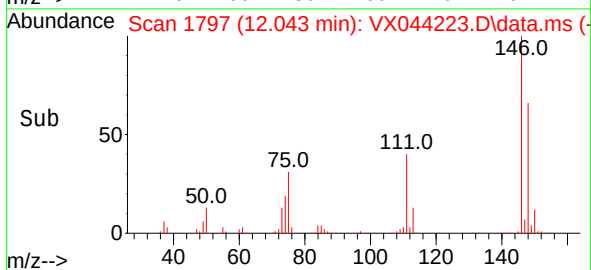
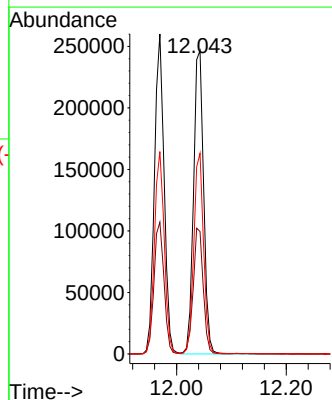
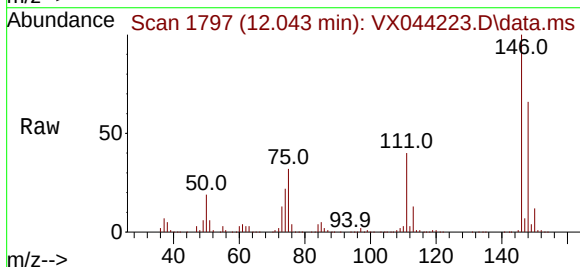
Tgt Ion:146 Resp: 316688

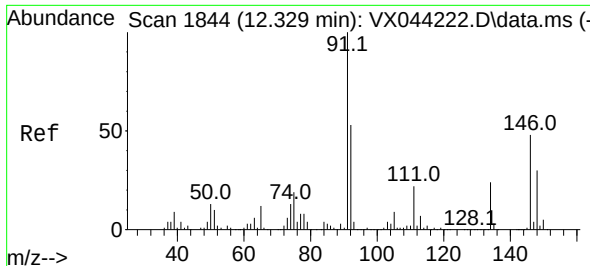
Ion Ratio Lower Upper

146 100

111 41.0 21.0 63.0

148 63.7 32.3 96.8





#89

n-Butylbenzene

Concen: 108.385 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

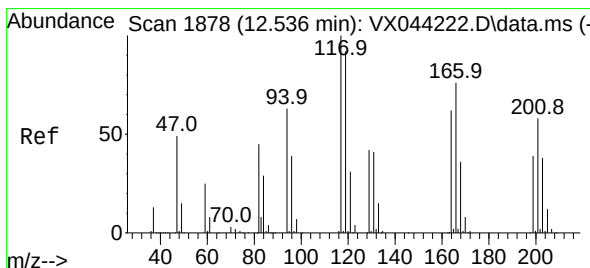
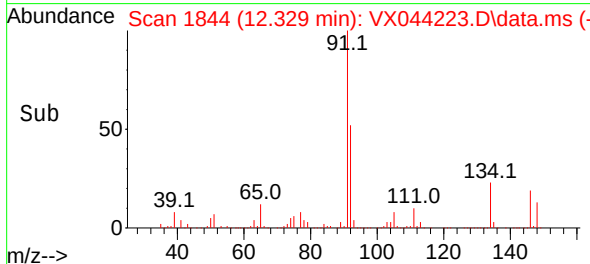
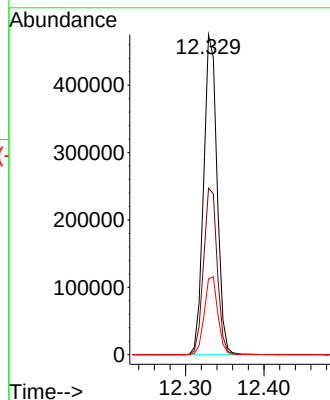
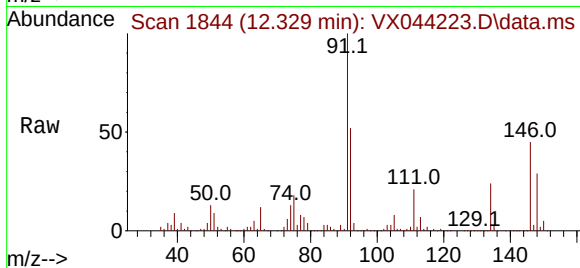
Tgt Ion: 91 Resp: 564303

Ion Ratio Lower Upper

91 100

92 53.2 26.6 79.7

134 24.5 12.6 37.8



#90

Hexachloroethane

Concen: 117.218 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX044223.D

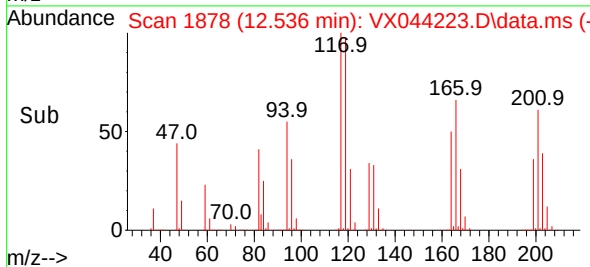
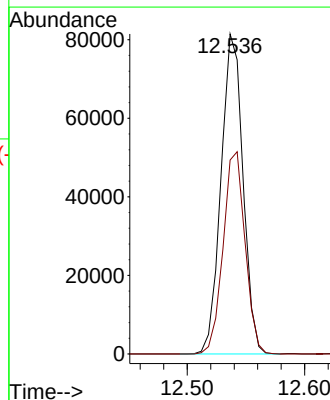
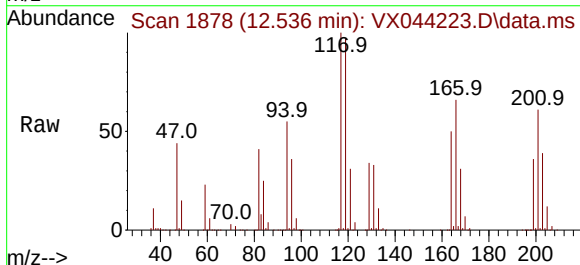
Acq: 11 Dec 2024 12:37

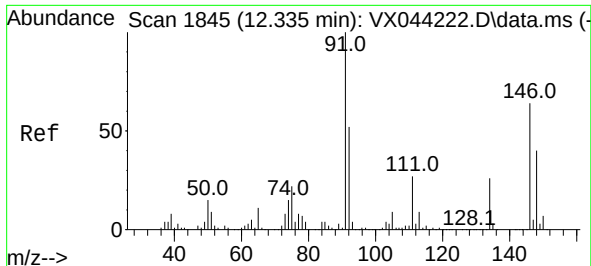
Tgt Ion: 117 Resp: 105946

Ion Ratio Lower Upper

117 100

201 63.2 31.4 94.2





#91

1,2-Dichlorobenzene

Concen: 98.232 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

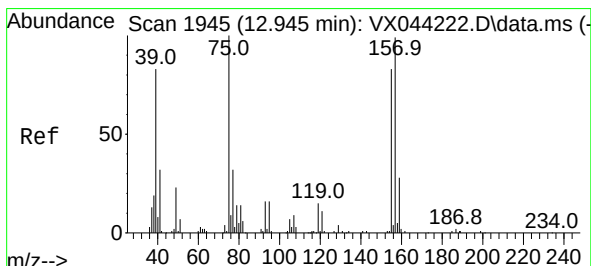
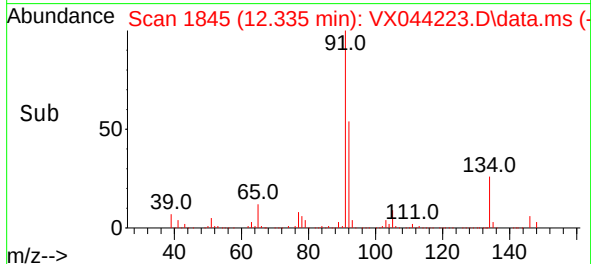
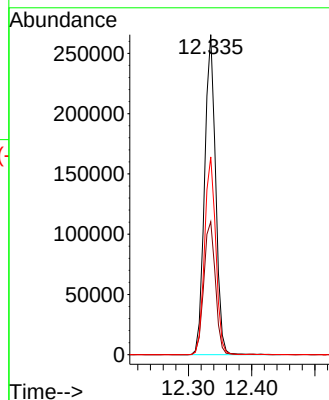
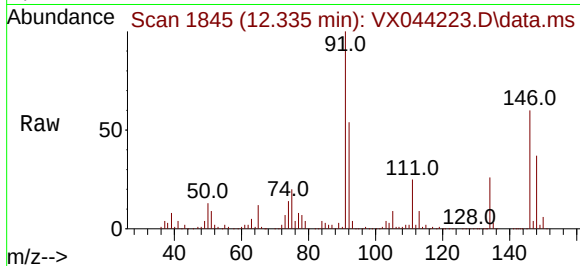
Tgt Ion:146 Resp: 323040

Ion Ratio Lower Upper

146 100

111 43.6 21.4 64.3

148 62.6 31.6 95.0



#92

1,2-Dibromo-3-Chloropropane

Concen: 108.279 ug/l

RT: 12.939 min Scan# 1944

Delta R.T. -0.006 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

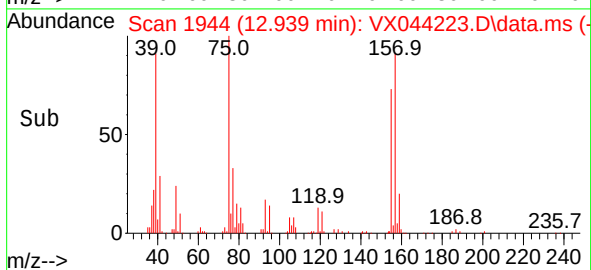
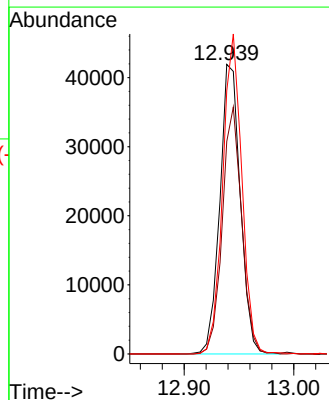
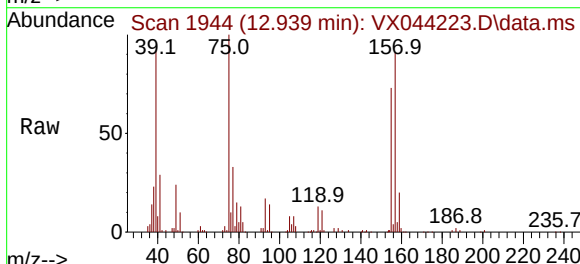
Tgt Ion: 75 Resp: 54588

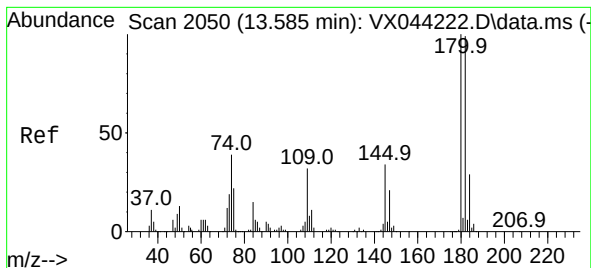
Ion Ratio Lower Upper

75 100

155 80.6 38.1 114.3

157 102.8 47.2 141.6





#93

1,2,4-Trichlorobenzene

Concen: 109.766 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

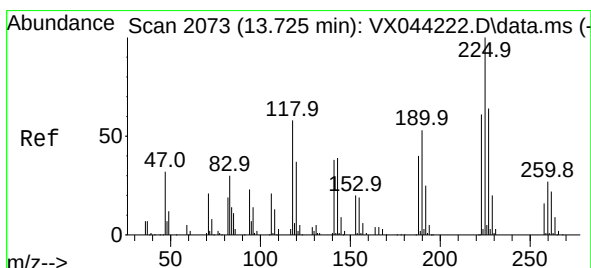
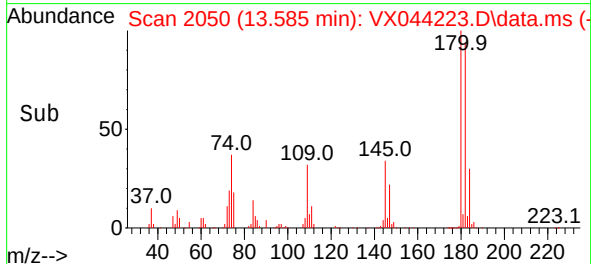
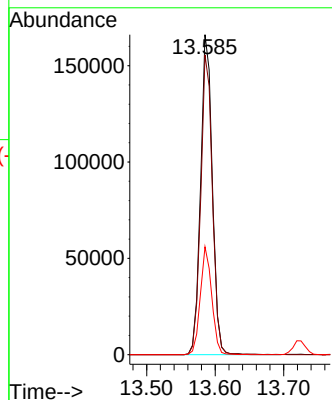
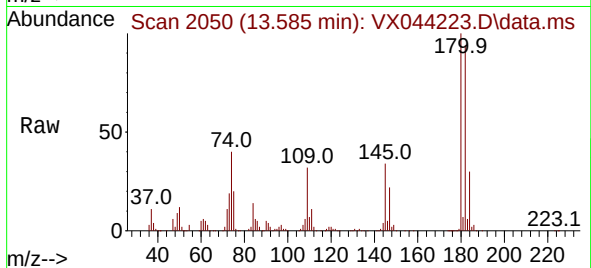
Tgt Ion:180 Resp: 197899

Ion Ratio Lower Upper

180 100

182 93.5 48.0 144.2

145 32.9 16.6 49.7



#94

Hexachlorobutadiene

Concen: 99.908 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX044223.D

Acq: 11 Dec 2024 12:37

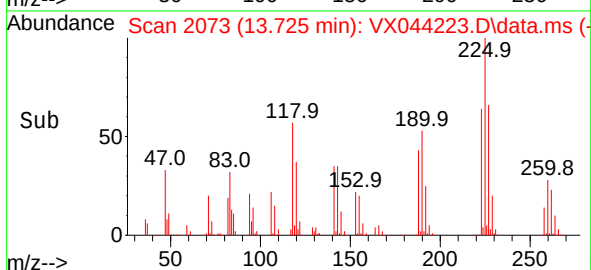
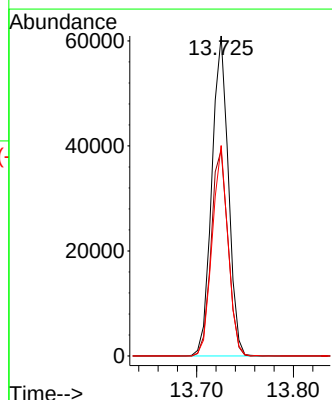
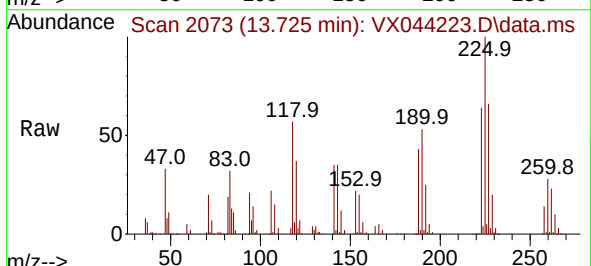
Tgt Ion:225 Resp: 72453

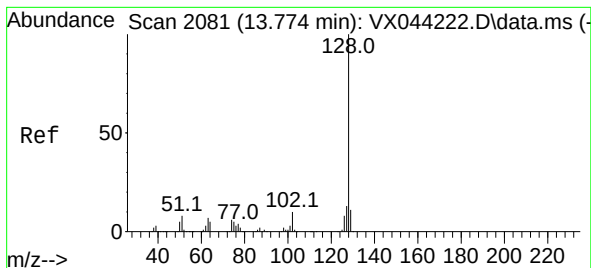
Ion Ratio Lower Upper

225 100

223 65.5 30.8 92.4

227 62.9 32.1 96.3

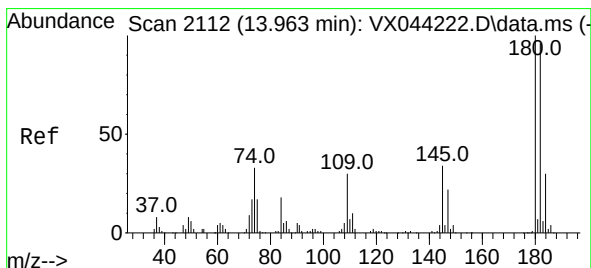
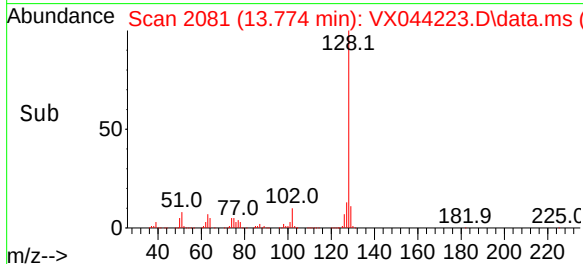
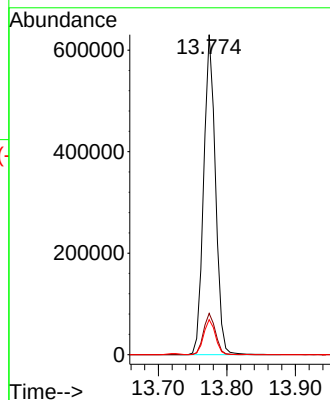
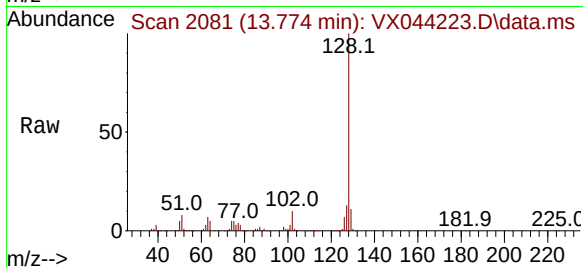




#95
Naphthalene
Concen: 107.308 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

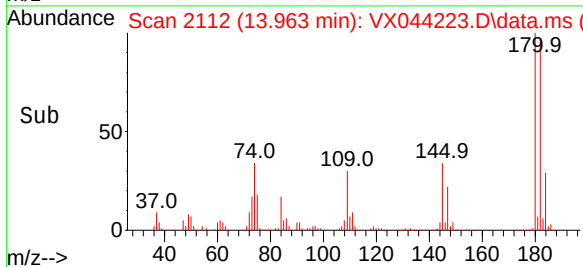
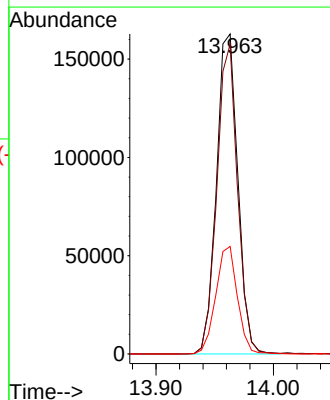
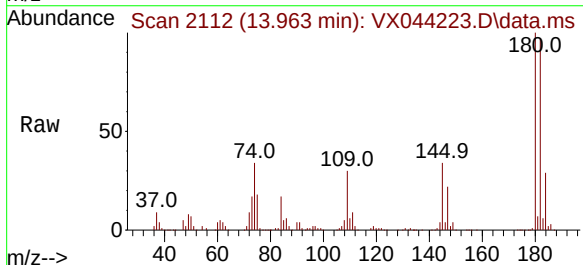
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 755181
Ion Ratio Lower Upper
128 100
127 13.1 10.5 15.7
129 10.9 9.0 13.4



#96
1,2,3-Trichlorobenzene
Concen: 107.754 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:180 Resp: 206053
Ion Ratio Lower Upper
180 100
182 93.8 48.0 144.0
145 34.1 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044224.D
 Acq On : 11 Dec 2024 13:00
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Dec 12 04:16:55 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:11:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	117957	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	218610	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	190013	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	90898	50.000	ug/l	# 0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.952	65	314272	151.956	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 303.920%#	
35) Dibromofluoromethane	5.385	113	231937	153.188	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 306.380%#	
50) Toluene-d8	8.647	98	788876	154.438	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 308.880%#	
62) 4-Bromofluorobenzene	11.079	95	279706	156.709	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 313.420%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	268739	147.342	ug/l	98
3) Chloromethane	1.294	50	261734	150.062	ug/l	97
4) Vinyl Chloride	1.374	62	260651	143.446	ug/l	97
5) Bromomethane	1.593	94	194089	150.562	ug/l	100
6) Chloroethane	1.660	64	150640	133.137	ug/l	98
7) Trichlorofluoromethane	1.861	101	500315	140.645	ug/l	99
8) Diethyl Ether	2.136	74	183845	151.407	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.312	101	219513	152.497	ug/l	99
10) Methyl Iodide	2.441	142	284184	149.795	ug/l	99
11) Tert butyl alcohol	3.014	59	266830	916.880	ug/l	98
12) 1,1-Dichloroethene	2.306	96	211016	159.600	ug/l	96
13) Acrolein	2.239	56	341487	809.350	ug/l	100
14) Allyl chloride	2.654	41	346773	157.465	ug/l	99
15) Acrylonitrile	3.068	53	649783	804.774	ug/l	99
16) Acetone	2.392	43	658120	780.537	ug/l	98
17) Carbon Disulfide	2.495	76	481926	191.754	ug/l	99
18) Methyl Acetate	2.709	43	336516	154.792	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	806360	156.286	ug/l	98
20) Methylene Chloride	2.782	84	236412	149.282	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	221622	157.719	ug/l	99
22) Diisopropyl ether	3.763	45	751292	151.500	ug/l	98
23) Vinyl Acetate	3.727	43	3464902	859.417	ug/l	99
24) 1,1-Dichloroethane	3.605	63	431006	155.921	ug/l	100
25) 2-Butanone	4.568	43	957709	798.973	ug/l	99
26) 2,2-Dichloropropane	4.465	77	367781	163.773	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	269708	151.131	ug/l	99
28) Bromochloromethane	4.897	49	200978	148.269	ug/l	100
29) Tetrahydrofuran	5.013	42	602095	782.561	ug/l	99
30) Chloroform	5.092	83	463606	149.274	ug/l	99
31) Cyclohexane	5.458	56	332026	148.745	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	415253	161.073	ug/l	99
36) 1,1-Dichloropropene	5.684	75	290913	148.642	ug/l	99
37) Ethyl Acetate	4.721	43	376757	155.731	ug/l	99
38) Carbon Tetrachloride	5.672	117	346795	164.587	ug/l	98
39) Methylcyclohexane	7.373	83	368542	157.516	ug/l	99
40) Benzene	6.031	78	887413	149.340	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044224.D
 Acq On : 11 Dec 2024 13:00
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Dec 12 04:16:55 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:11:59 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	199851	155.569	ug/l	99
42) 1,2-Dichloroethane	6.086	62	369874	151.105	ug/l	100
43) Isopropyl Acetate	6.342	43	617107	163.200	ug/l	99
44) Trichloroethene	7.123	130	224164	151.275	ug/l	100
45) 1,2-Dichloropropane	7.427	63	224224	147.697	ug/l	96
46) Dibromomethane	7.580	93	184590	156.728	ug/l	99
47) Bromodichloromethane	7.818	83	352904	173.496	ug/l	98
48) Methyl methacrylate	7.696	41	292890	159.567	ug/l	98
49) 1,4-Dioxane	7.665	88	111023	3539.235	ug/l #	88
51) 4-Methyl-2-Pentanone	8.580	43	1907523	784.573	ug/l	99
52) Toluene	8.714	92	557102	149.294	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	366275	150.167	ug/l	95
54) cis-1,3-Dichloropropene	8.366	75	382226	172.581	ug/l	98
55) 1,1,2-Trichloroethane	9.153	97	222665	150.202	ug/l	98
56) Ethyl methacrylate	9.116	69	389165	166.289	ug/l	99
57) 1,3-Dichloropropane	9.305	76	387086	150.014	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.244	63	970949	822.575	ug/l	100
59) 2-Hexanone	9.433	43	1436300	816.161	ug/l	99
60) Dibromochloromethane	9.525	129	261253	150.105	ug/l	99
61) 1,2-Dibromoethane	9.610	107	242451	160.674	ug/l	97
64) Tetrachloroethene	9.269	164	186443	147.836	ug/l	98
65) Chlorobenzene	10.079	112	608404	149.428	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.165	131	218515	166.991	ug/l	100
67) Ethyl Benzene	10.195	91	1068736	151.917	ug/l	98
68) m/p-Xylenes	10.299	106	806058	312.254	ug/l	98
69) o-Xylene	10.640	106	397084	152.030	ug/l	98
70) Styrene	10.652	104	670887	160.228	ug/l	98
71) Bromoform	10.799	173	169450	150.034	ug/l #	99
73) Isopropylbenzene	10.963	105	1021749	146.832	ug/l	99
74) N-amyl acetate	10.841	43	536496	166.823	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	352591	145.883	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	400724	194.277	ug/l	85
77) Bromobenzene	11.201	156	243975	144.584	ug/l	100
78) n-propylbenzene	11.305	91	1166255	151.637	ug/l	98
79) 2-Chlorotoluene	11.366	91	700673	140.866	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	853042	147.824	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	117263	152.670	ug/l	93
82) 4-Chlorotoluene	11.451	91	825278	149.831	ug/l	99
83) tert-Butylbenzene	11.713	119	846864	148.495	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	846771	149.414	ug/l	100
85) sec-Butylbenzene	11.890	105	1034419	149.409	ug/l	99
86) p-Isopropyltoluene	12.006	119	875562	151.944	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	443826	150.575	ug/l	99
88) 1,4-Dichlorobenzene	12.042	146	442556	146.058	ug/l	99
89) n-Butylbenzene	12.329	91	808399	166.836	ug/l	100
90) Hexachloroethane	12.536	117	154726	183.942	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	447931	146.357	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	83565	178.106	ug/l	93
93) 1,2,4-Trichlorobenzene	13.585	180	288519	171.952	ug/l	98
94) Hexachlorobutadiene	13.725	225	103961	154.036	ug/l	98
95) Naphthalene	13.774	128	1094997	167.187	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	293760	165.064	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044224.D
Acq On : 11 Dec 2024 13:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Dec 12 04:16:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

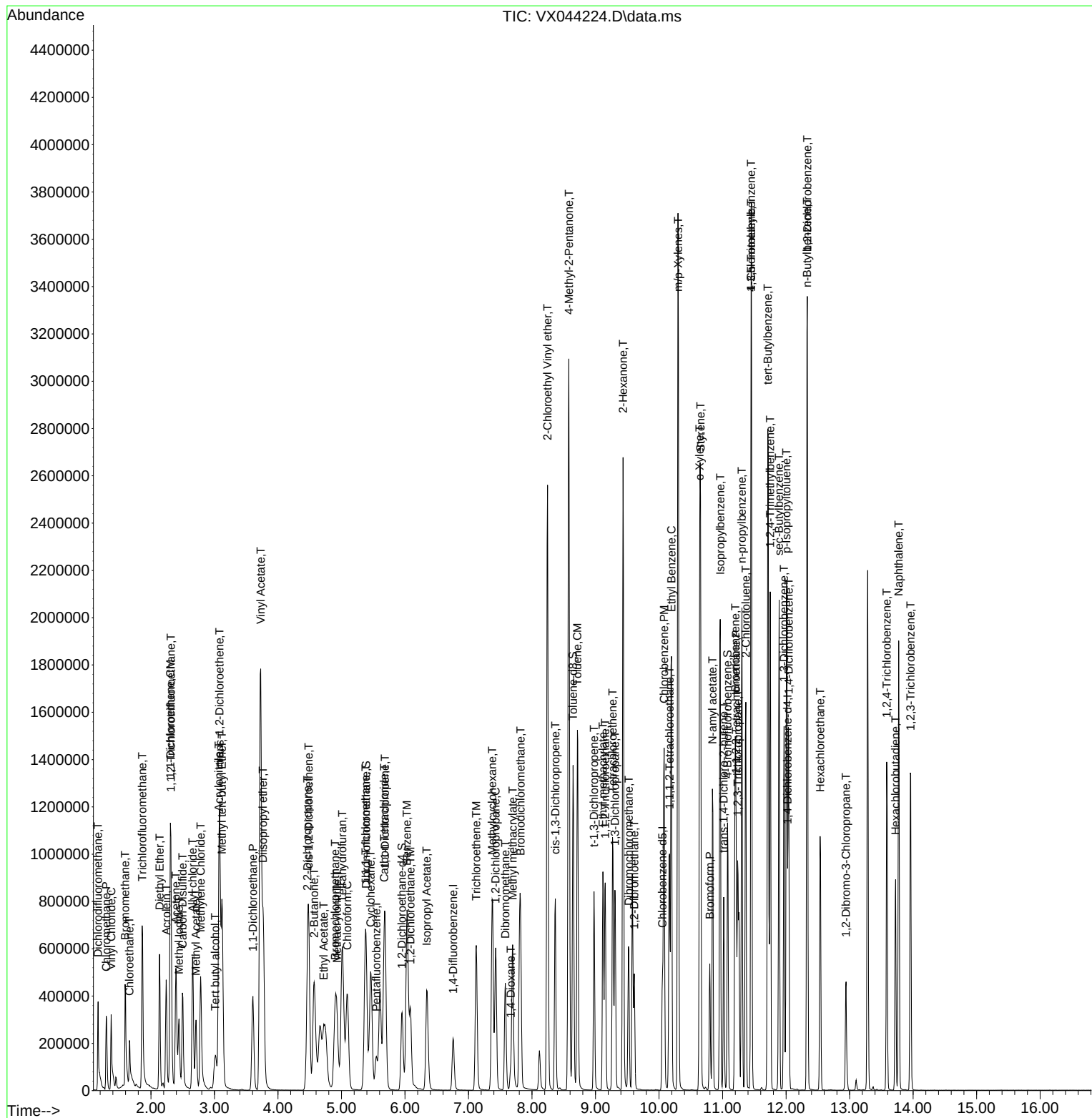
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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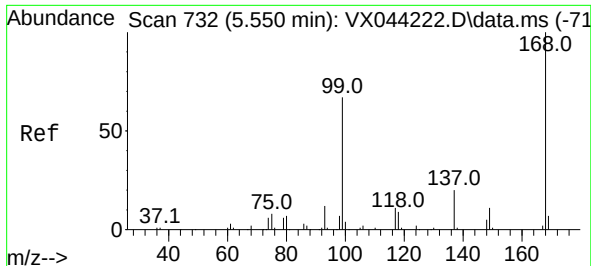
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044224.D
Acq On : 11 Dec 2024 13:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Dec 12 04:16:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

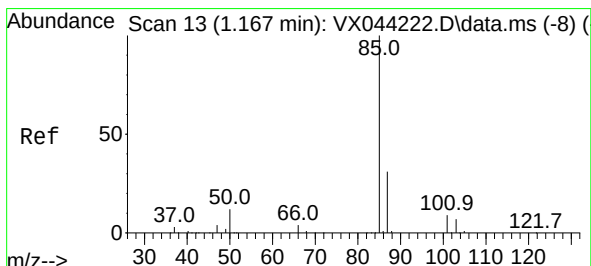
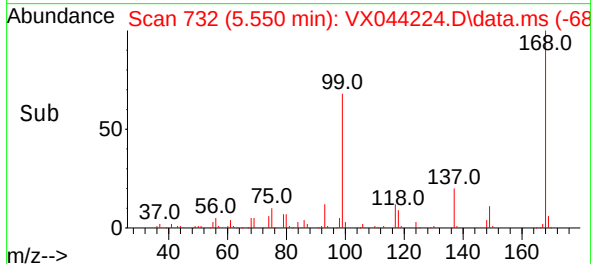
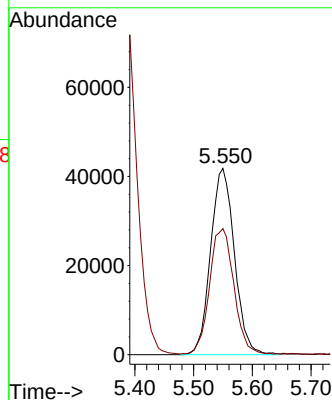
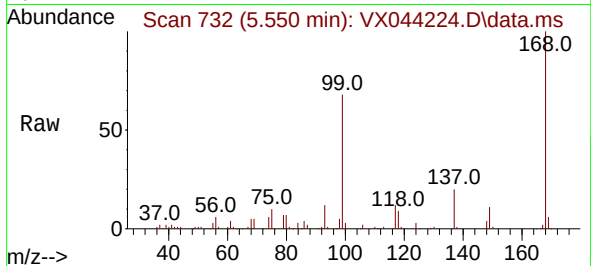




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

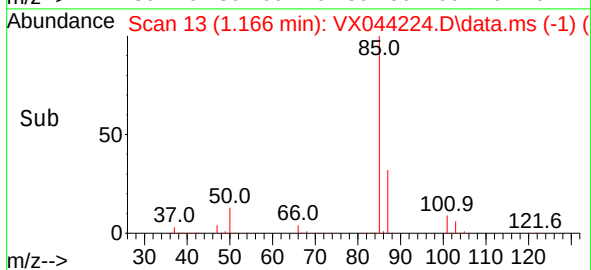
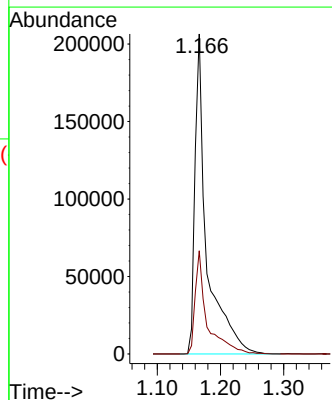
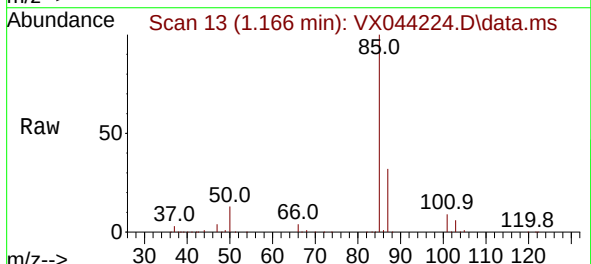
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

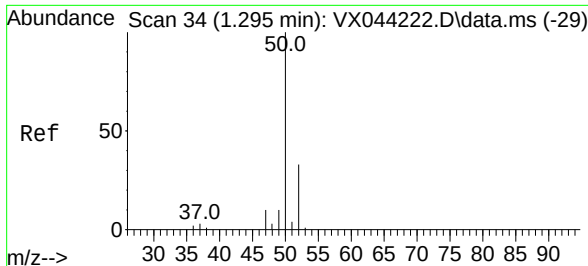
Tgt Ion:168 Resp: 117957
Ion Ratio Lower Upper
168 100
99 67.2 53.4 80.0



#2
Dichlorodifluoromethane
Concen: 147.342 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 85 Resp: 268739
Ion Ratio Lower Upper
85 100
87 32.2 15.4 46.4

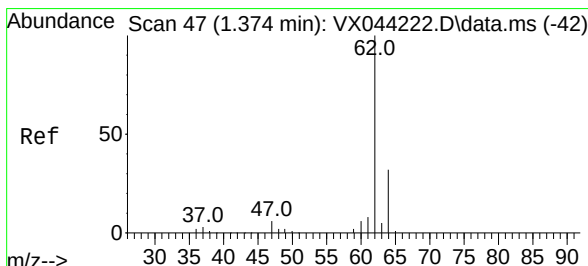
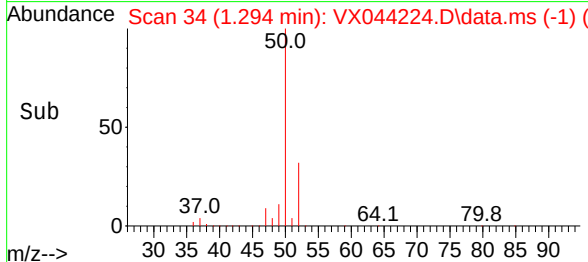
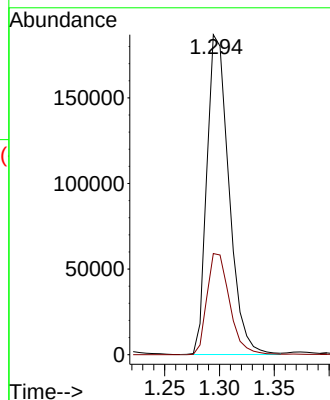
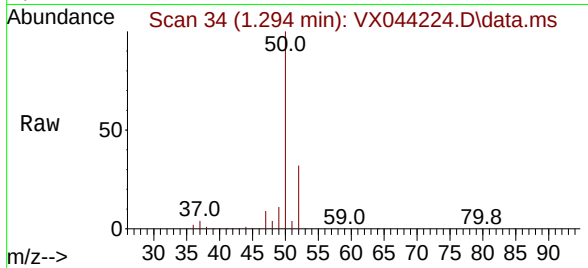




#3
Chloromethane
Concen: 150.062 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

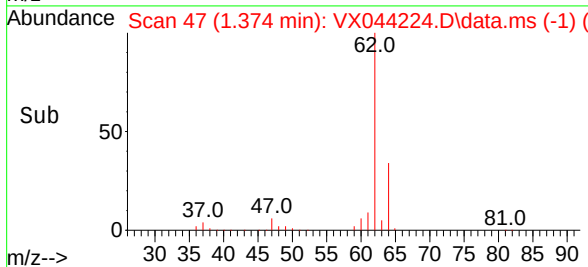
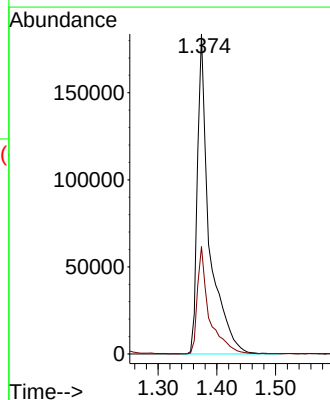
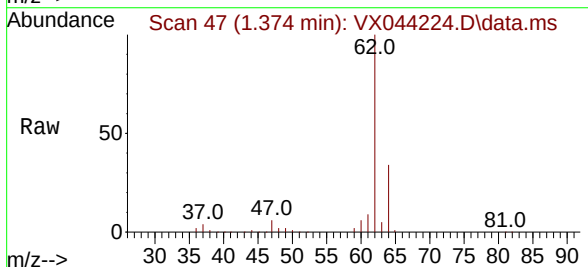
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

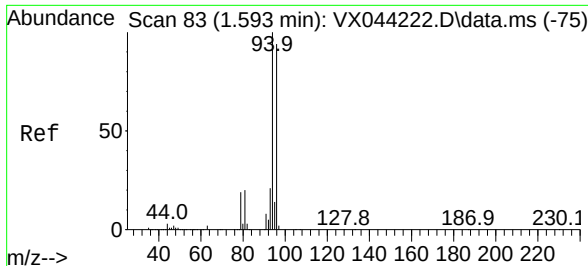
Tgt Ion: 50 Resp: 261734
Ion Ratio Lower Upper
50 100
52 31.6 26.5 39.7



#4
Vinyl Chloride
Concen: 143.446 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 62 Resp: 260651
Ion Ratio Lower Upper
62 100
64 33.5 25.7 38.5

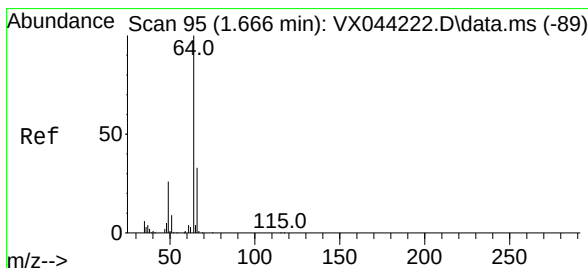
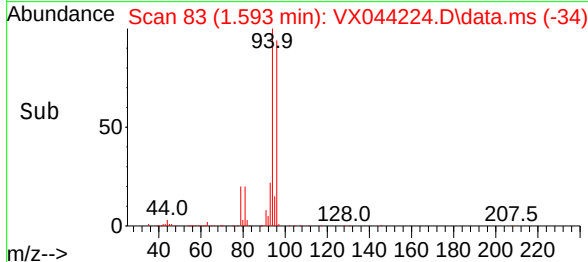
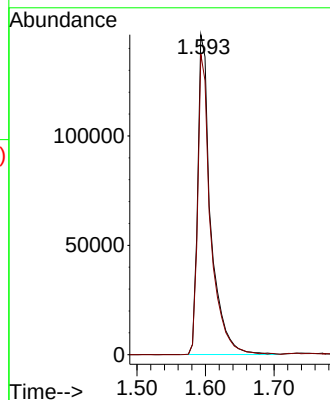
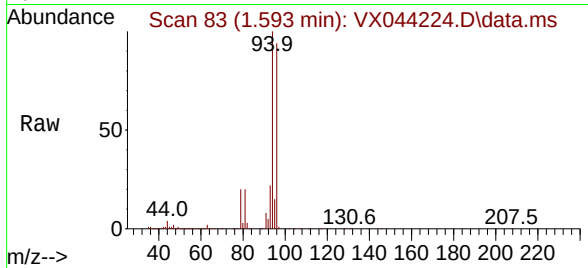




#5
 Bromomethane
 Concen: 150.562 ug/l
 RT: 1.593 min Scan# 83
 Delta R.T. -0.000 min
 Lab File: VX044224.D
 Acq: 11 Dec 2024 13:00

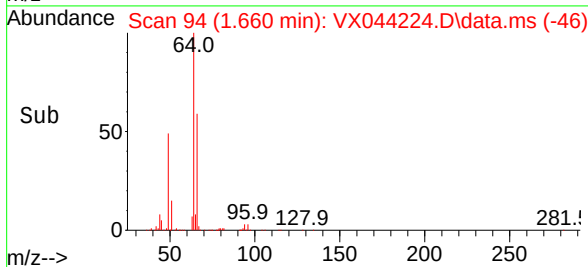
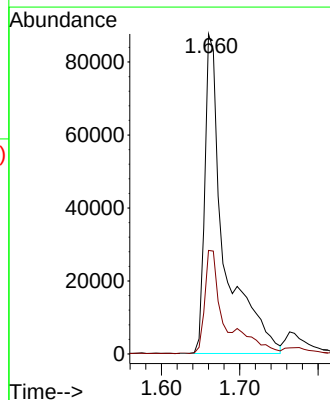
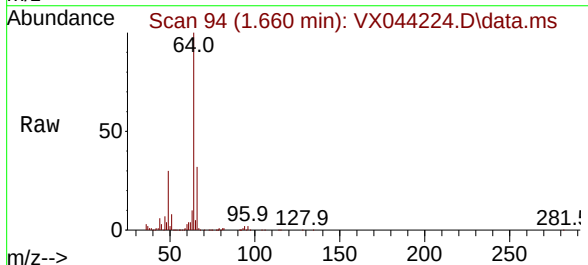
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC150

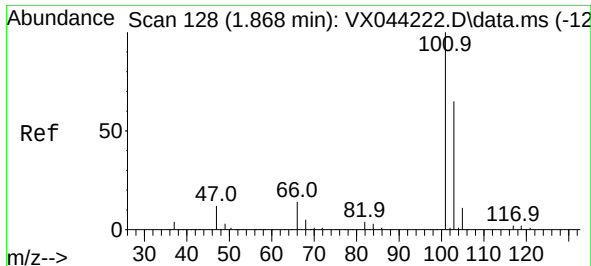
Tgt Ion: 94 Resp: 194089
 Ion Ratio Lower Upper
 94 100
 96 94.0 74.9 112.3



#6
 Chloroethane
 Concen: 133.137 ug/l
 RT: 1.660 min Scan# 94
 Delta R.T. -0.006 min
 Lab File: VX044224.D
 Acq: 11 Dec 2024 13:00

Tgt Ion: 64 Resp: 150640
 Ion Ratio Lower Upper
 64 100
 66 32.1 26.6 39.8

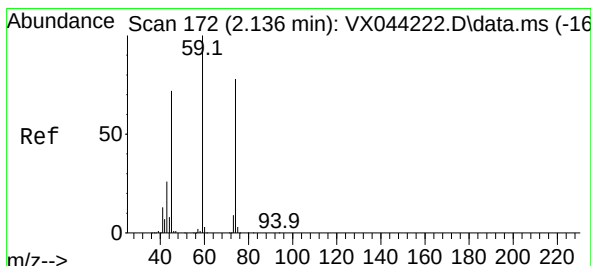
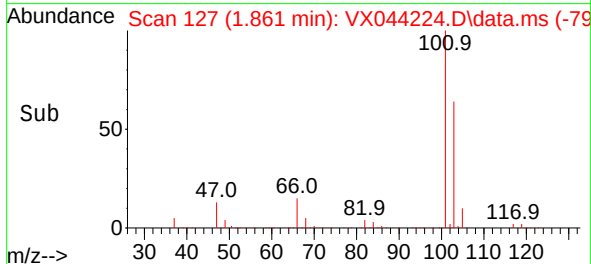
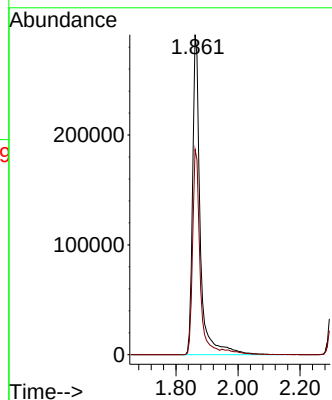
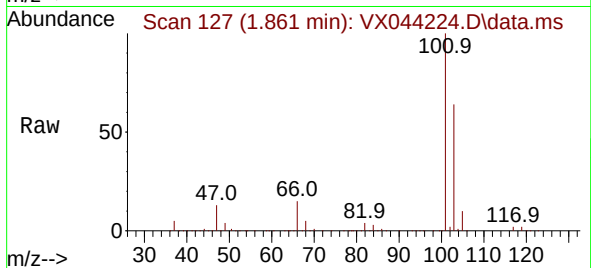




#7
 Trichlorofluoromethane
 Concen: 140.645 ug/l
 RT: 1.861 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: VX044224.D
 Acq: 11 Dec 2024 13:00

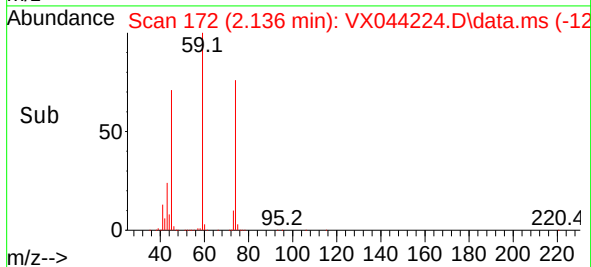
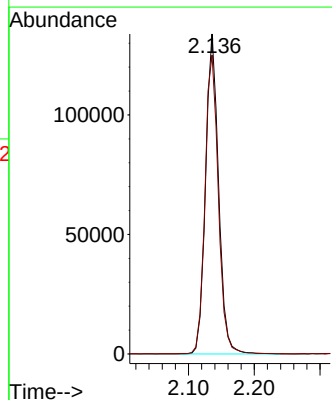
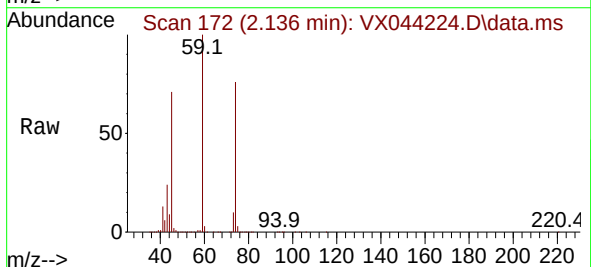
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC150

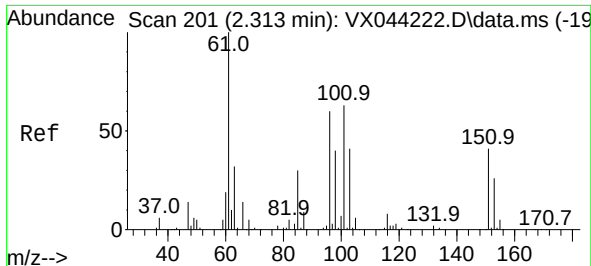
Tgt Ion:101 Resp: 500315
 Ion Ratio Lower Upper
 101 100
 103 64.2 51.8 77.8



#8
 Diethyl Ether
 Concen: 151.407 ug/l
 RT: 2.136 min Scan# 172
 Delta R.T. -0.000 min
 Lab File: VX044224.D
 Acq: 11 Dec 2024 13:00

Tgt Ion: 74 Resp: 183845
 Ion Ratio Lower Upper
 74 100
 45 96.6 48.4 145.0

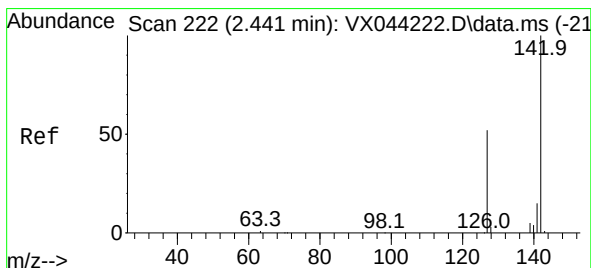
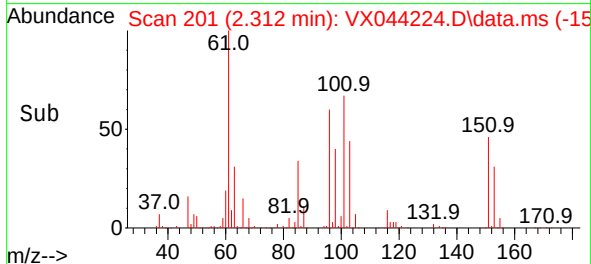
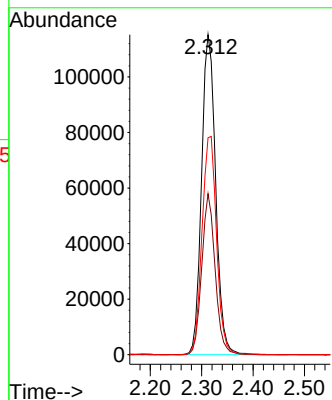
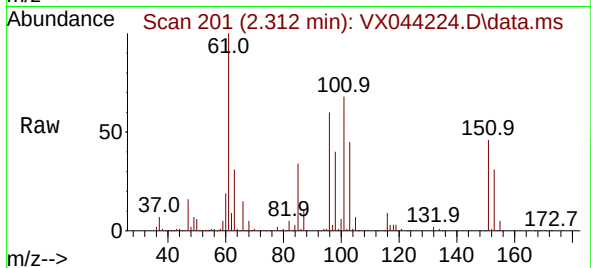




#9
1,1,2-Trichlorotrifluoroethane
Concen: 152.497 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

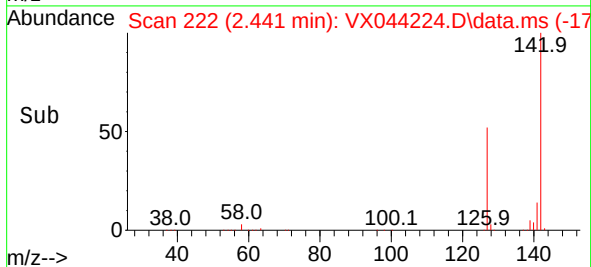
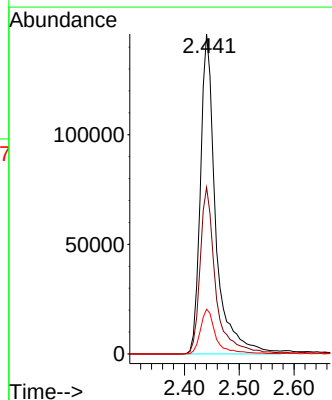
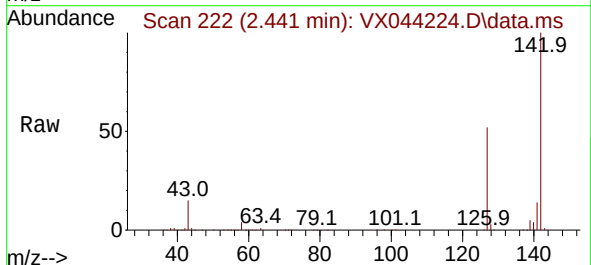
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

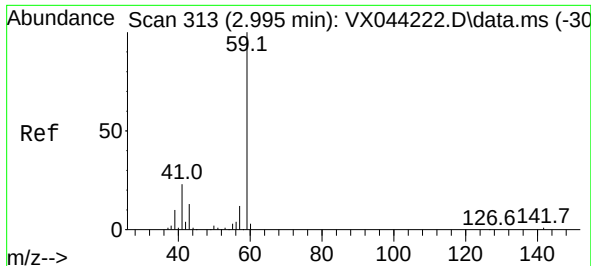
Tgt Ion:101 Resp: 219513
Ion Ratio Lower Upper
101 100
85 47.8 38.5 57.7
151 70.5 55.8 83.6



#10
Methyl Iodide
Concen: 149.795 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:142 Resp: 284184
Ion Ratio Lower Upper
142 100
127 52.8 41.8 62.8
141 14.2 11.5 17.3

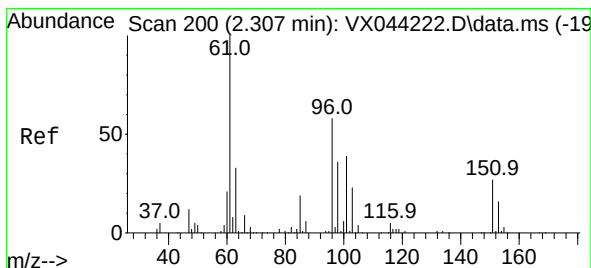
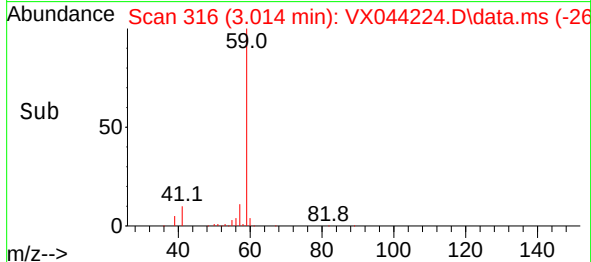
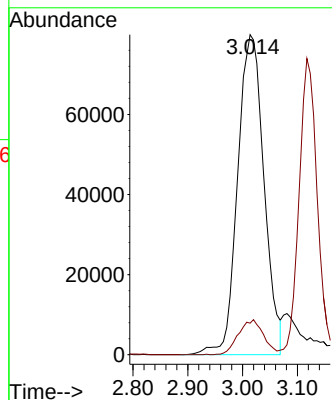
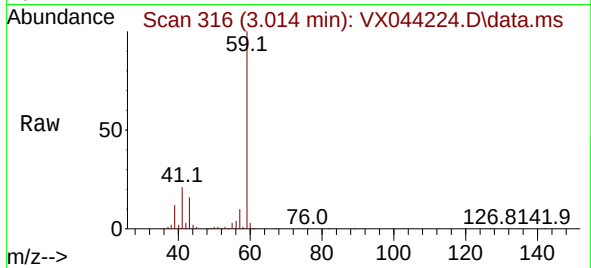




#11
Tert butyl alcohol
Concen: 916.880 ug/l
RT: 3.014 min Scan# 313
Delta R.T. 0.018 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

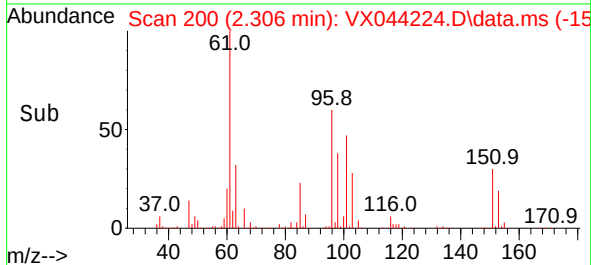
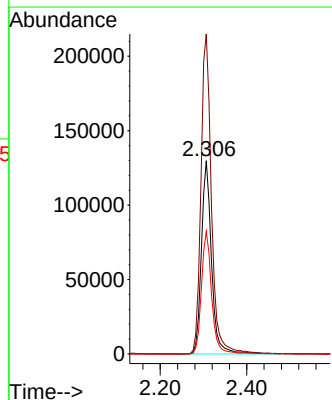
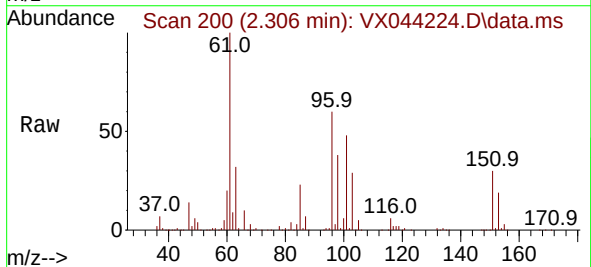
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

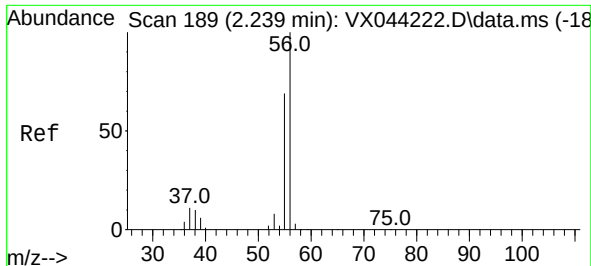
Tgt Ion: 59 Resp: 266830
Ion Ratio Lower Upper
59 100
57 10.4 8.8 13.2



#12
1,1-Dichloroethene
Concen: 159.600 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 96 Resp: 211016
Ion Ratio Lower Upper
96 100
61 165.6 138.0 207.0
98 63.5 50.0 75.0





#13

Acrolein

Concen: 809.350 ug/l

RT: 2.239 min Scan# 189

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

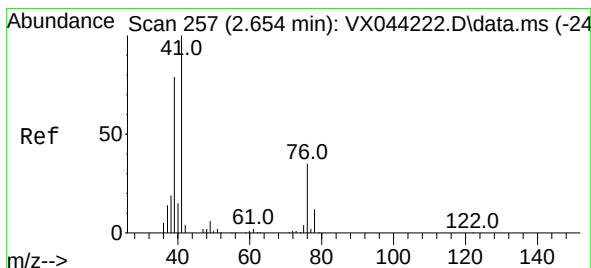
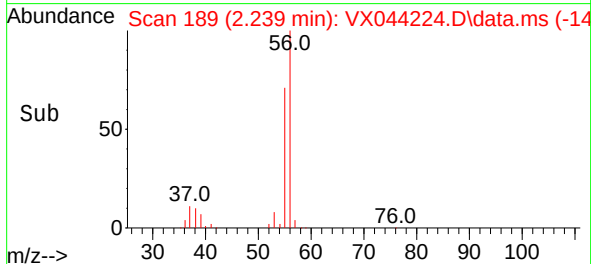
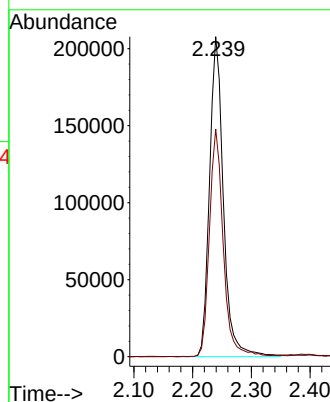
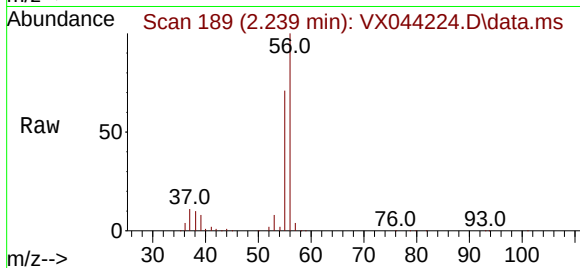
VSTDICC150

Tgt Ion: 56 Resp: 341487

Ion Ratio Lower Upper

56 100

55 70.8 56.6 84.8



#14

Allyl chloride

Concen: 157.465 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

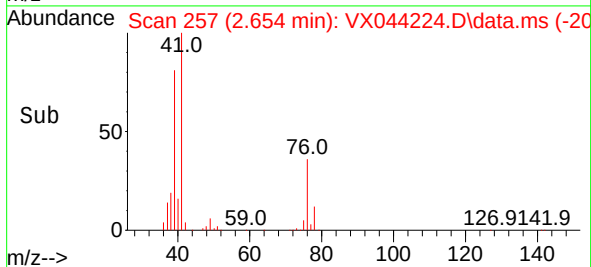
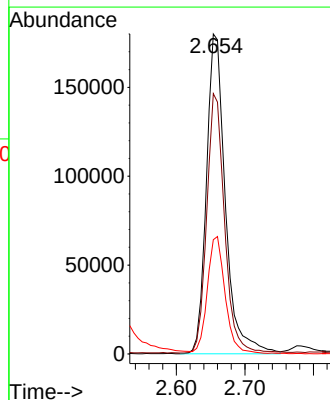
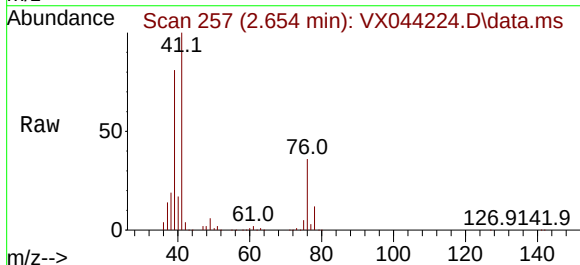
Tgt Ion: 41 Resp: 346773

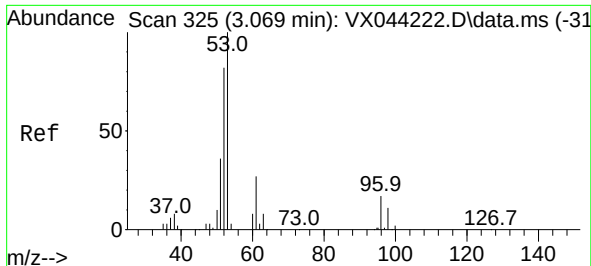
Ion Ratio Lower Upper

41 100

39 76.1 61.9 92.9

76 34.5 27.4 41.2





#15

Acrylonitrile

Concen: 804.774 ug/l

RT: 3.068 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

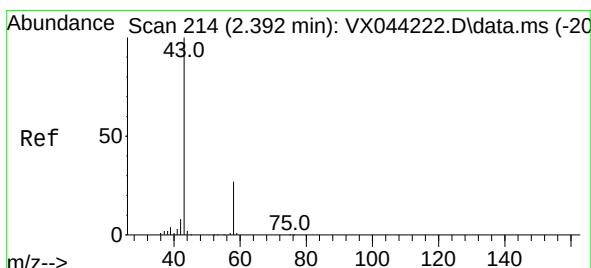
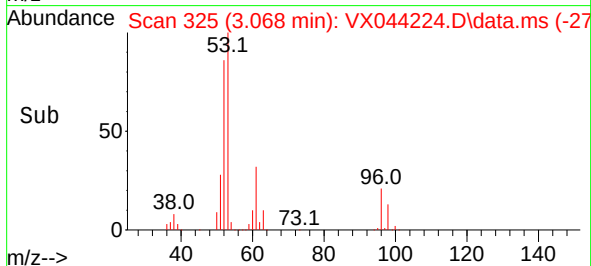
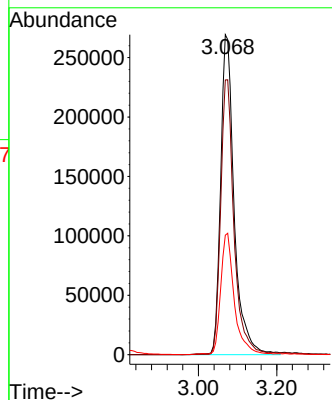
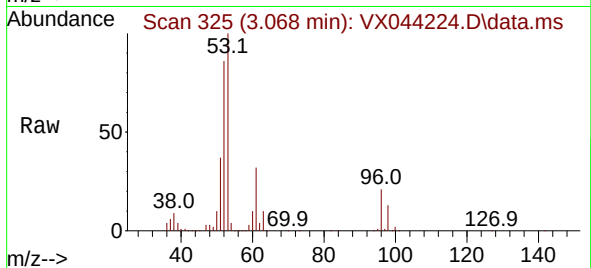
Tgt Ion: 53 Resp: 649783

Ion Ratio Lower Upper

53 100

52 83.9 67.4 101.0

51 37.0 30.3 45.5



#16

Acetone

Concen: 780.537 ug/l

RT: 2.392 min Scan# 214

Delta R.T. -0.000 min

Lab File: VX044224.D

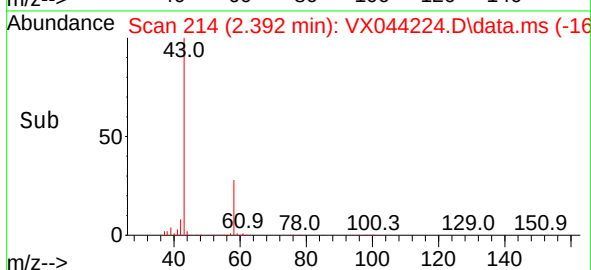
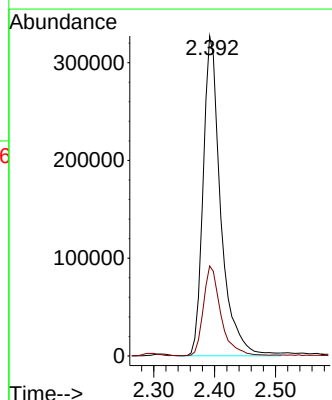
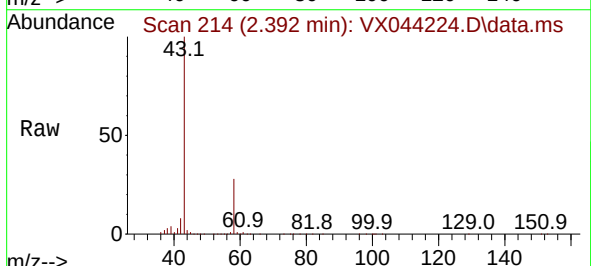
Acq: 11 Dec 2024 13:00

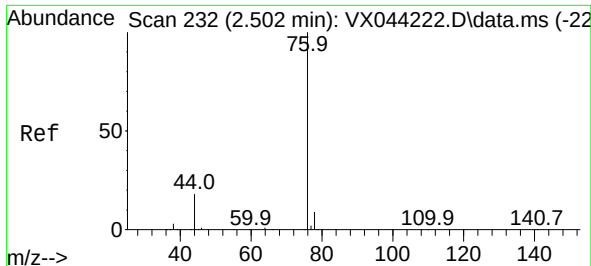
Tgt Ion: 43 Resp: 658120

Ion Ratio Lower Upper

43 100

58 28.1 21.6 32.4

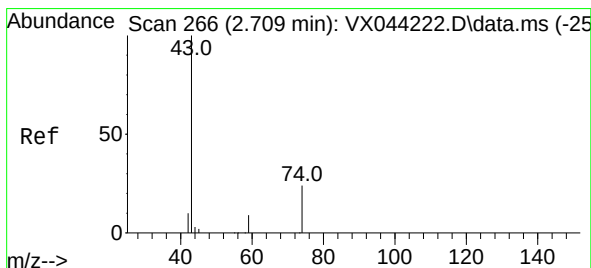
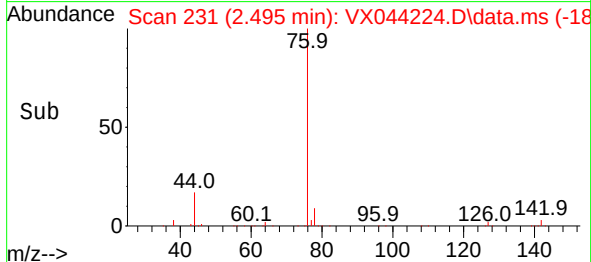
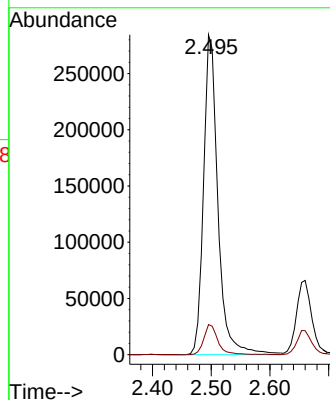
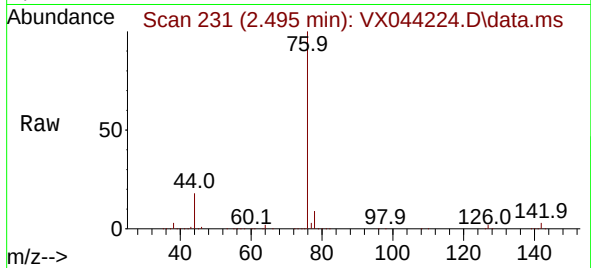




#17
Carbon Disulfide
Concen: 191.754 ug/l
RT: 2.495 min Scan# 24
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

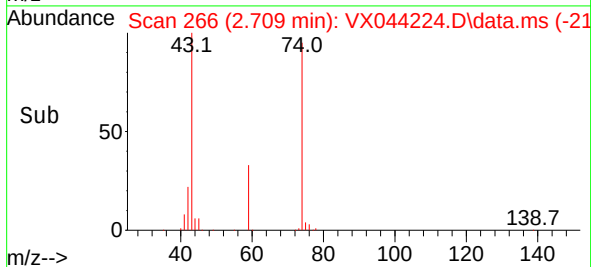
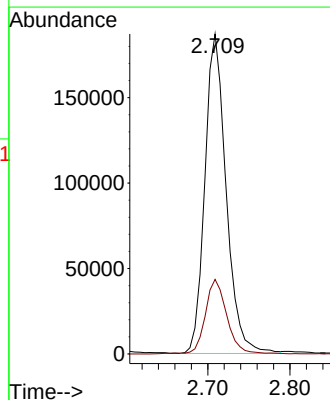
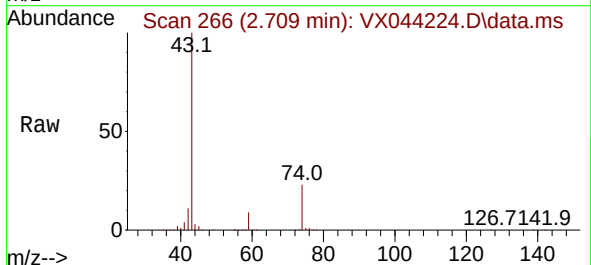
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

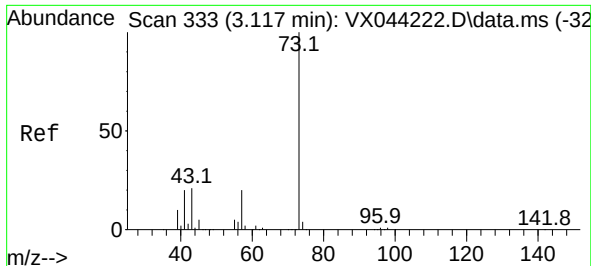
Tgt Ion: 76 Resp: 481926
Ion Ratio Lower Upper
76 100
78 9.4 7.4 11.0



#18
Methyl Acetate
Concen: 154.792 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 336516
Ion Ratio Lower Upper
43 100
74 23.7 17.7 26.5





#19

Methyl tert-butyl Ether

Concen: 156.286 ug/l

RT: 3.117 min Scan# 333

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

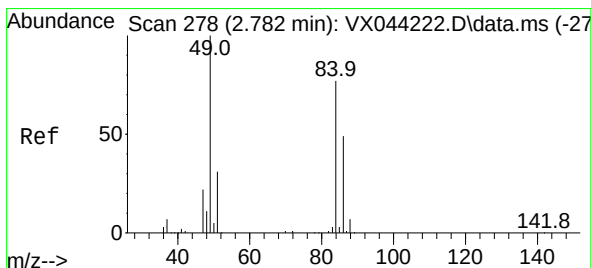
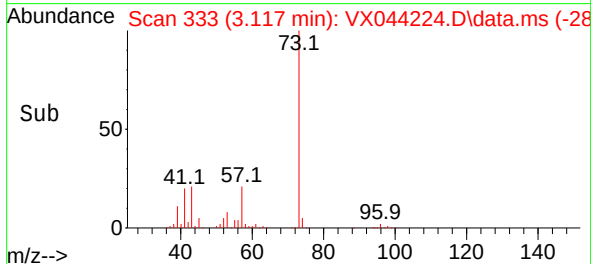
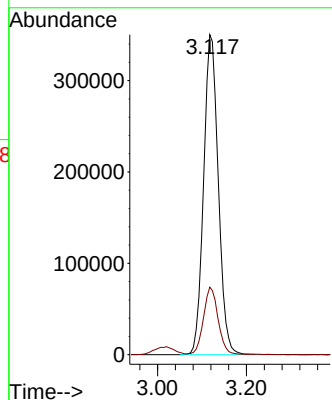
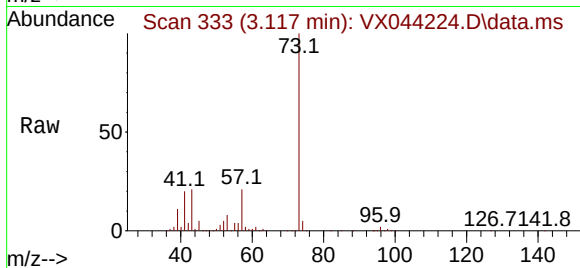
VSTDIC150

Tgt Ion: 73 Resp: 806360

Ion Ratio Lower Upper

73 100

57 21.1 16.2 24.4



#20

Methylene Chloride

Concen: 149.282 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Tgt Ion: 84 Resp: 236412

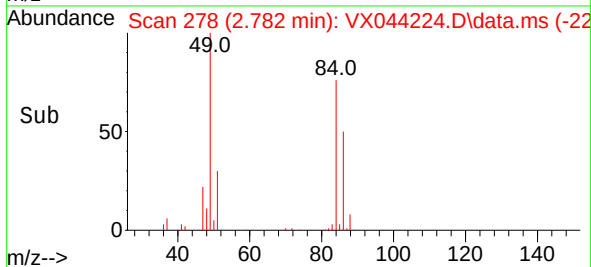
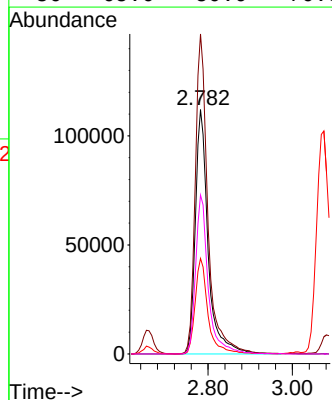
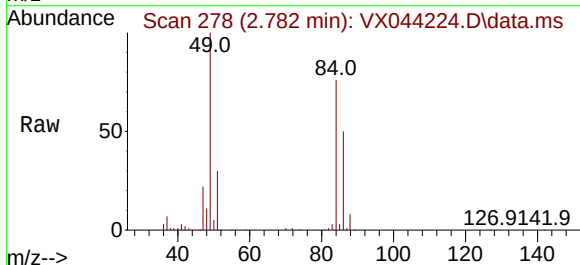
Ion Ratio Lower Upper

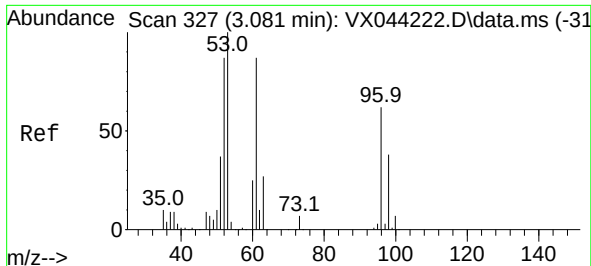
84 100

49 130.9 104.2 156.4

51 39.1 32.2 48.4

86 65.0 50.9 76.3

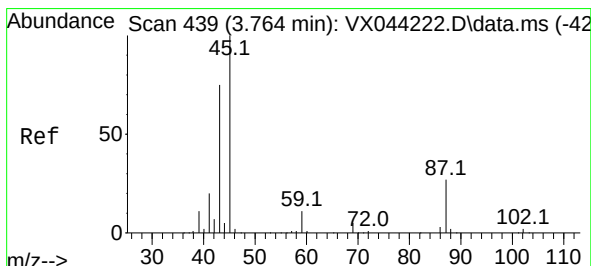
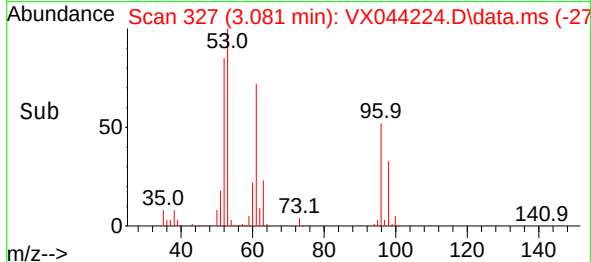
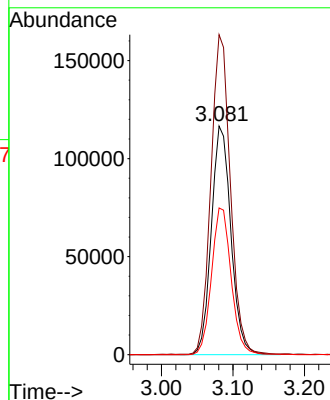
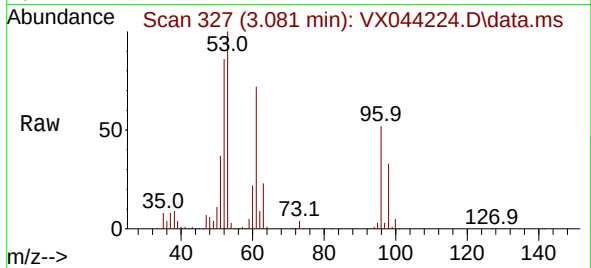




#21
trans-1,2-Dichloroethene
Concen: 157.719 ug/l
RT: 3.081 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

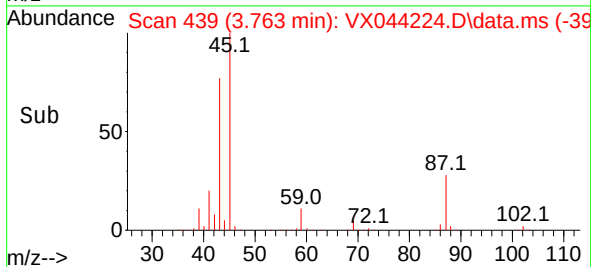
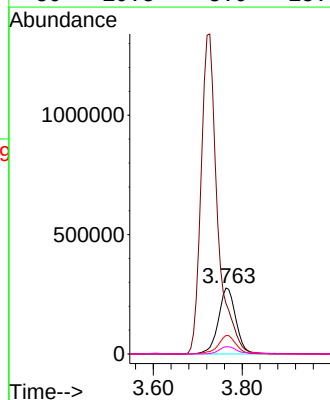
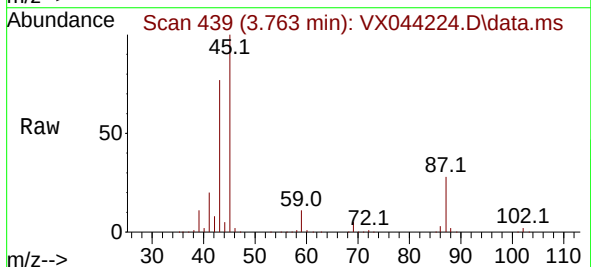
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

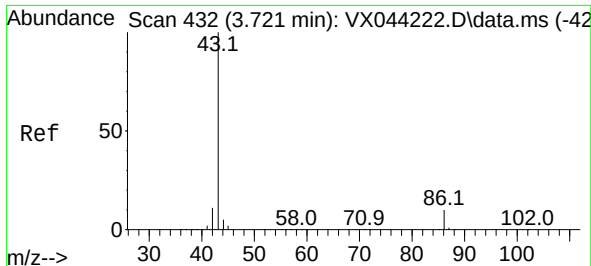
Tgt Ion: 96 Resp: 221622
Ion Ratio Lower Upper
96 100
61 139.7 112.0 168.0
98 64.2 48.8 73.2



#22
Diisopropyl ether
Concen: 151.500 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 45 Resp: 751292
Ion Ratio Lower Upper
45 100
43 76.6 60.2 90.2
87 28.0 21.2 31.8
59 10.8 8.9 13.3

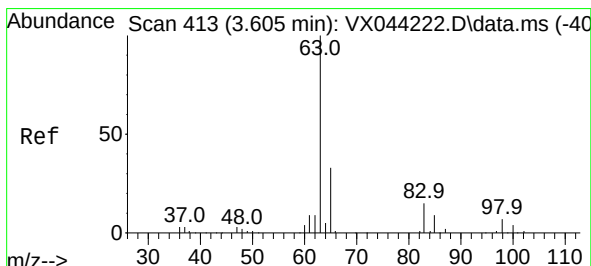
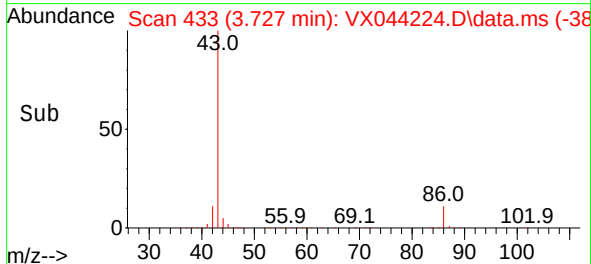
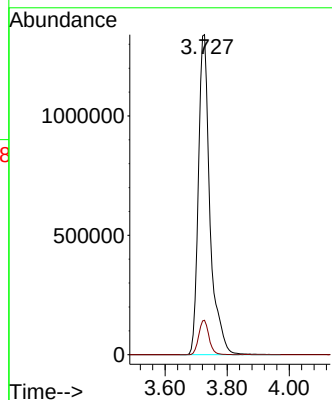
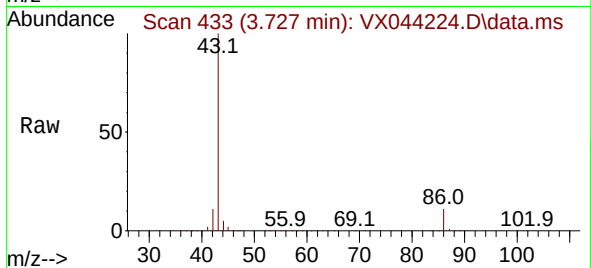




#23
 Vinyl Acetate
 Concen: 859.417 ug/l
 RT: 3.727 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VX044224.D
 Acq: 11 Dec 2024 13:00

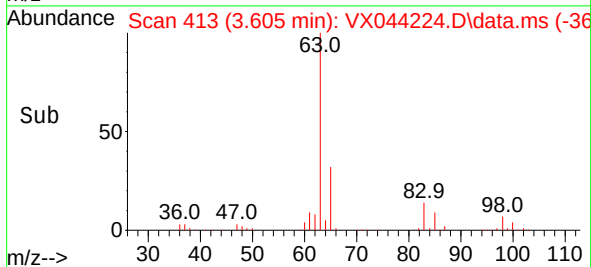
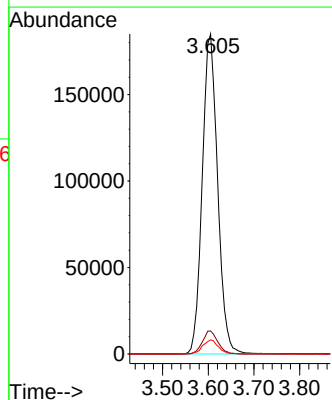
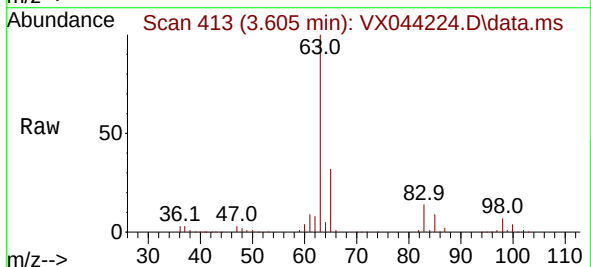
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC150

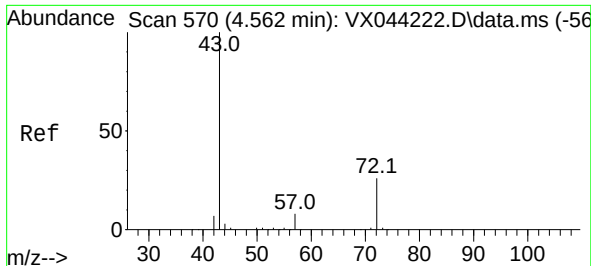
Tgt Ion: 43 Resp: 3464902
 Ion Ratio Lower Upper
 43 100
 86 10.7 8.2 12.2



#24
 1,1-Dichloroethane
 Concen: 155.921 ug/l
 RT: 3.605 min Scan# 413
 Delta R.T. -0.000 min
 Lab File: VX044224.D
 Acq: 11 Dec 2024 13:00

Tgt Ion: 63 Resp: 431006
 Ion Ratio Lower Upper
 63 100
 98 7.2 3.6 10.8
 100 4.4 2.1 6.3

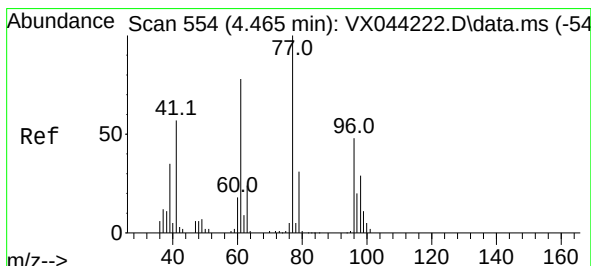
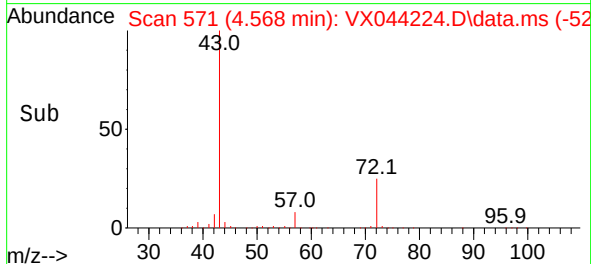
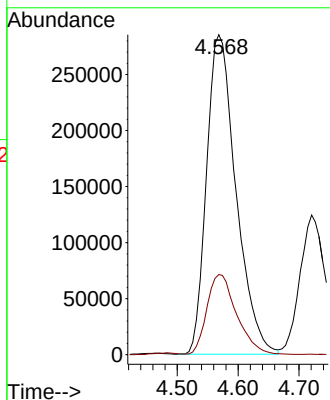
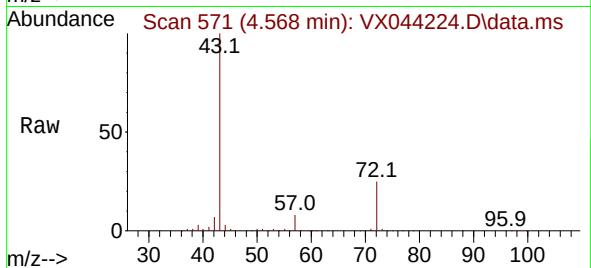




#25
2-Butanone
Concen: 798.973 ug/l
RT: 4.568 min Scan# 51
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

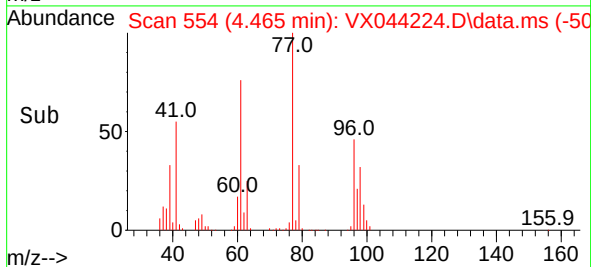
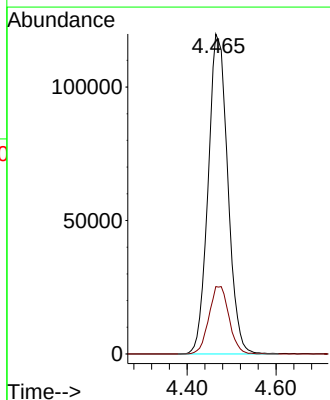
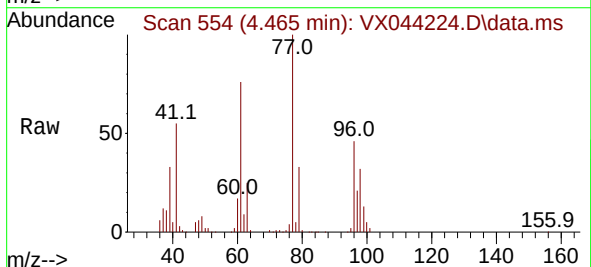
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

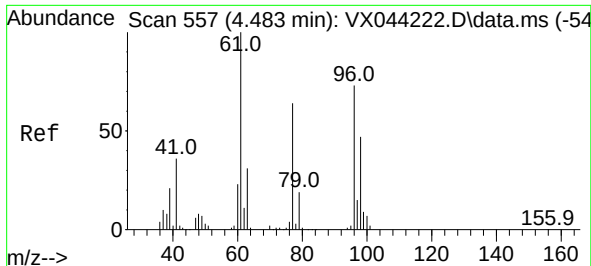
Tgt Ion: 43 Resp: 957709
Ion Ratio Lower Upper
43 100
72 24.8 20.2 30.4



#26
2,2-Dichloropropane
Concen: 163.773 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 77 Resp: 367781
Ion Ratio Lower Upper
77 100
97 21.6 10.7 32.1

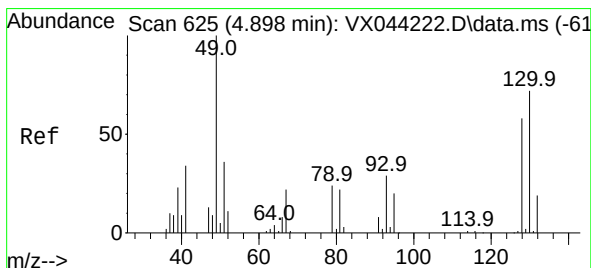
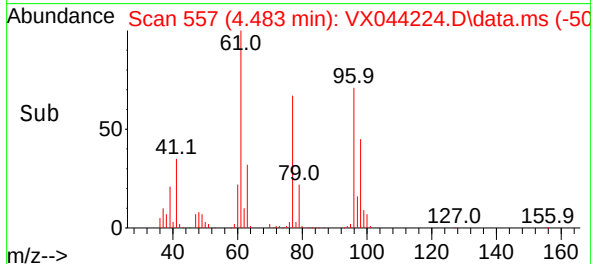
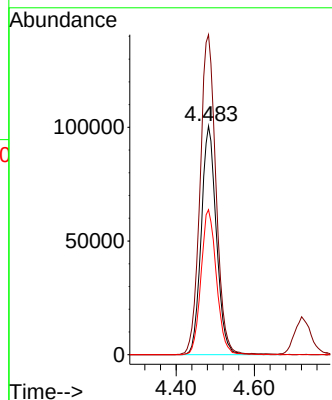
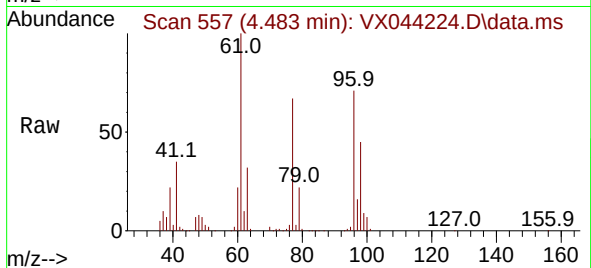




#27
cis-1,2-Dichloroethene
Concen: 151.131 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

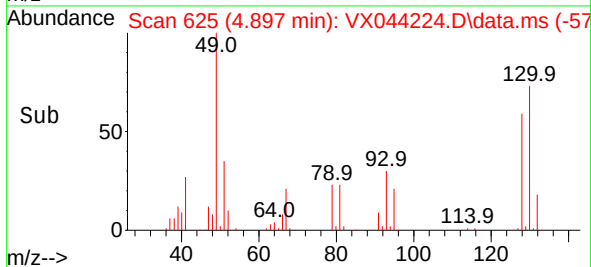
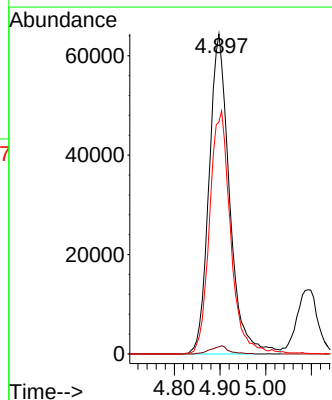
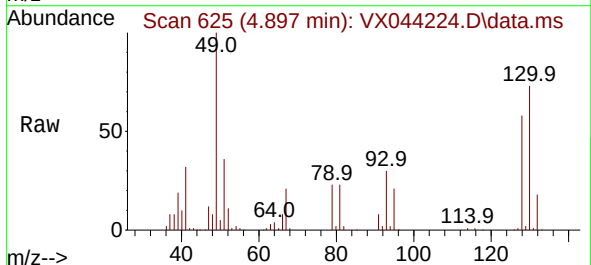
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

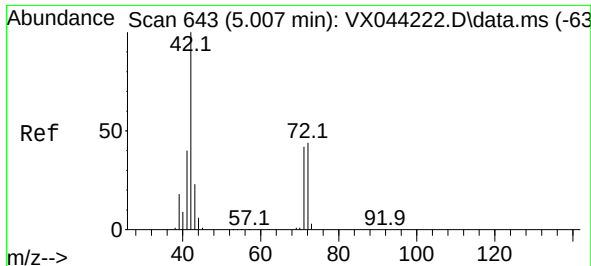
Tgt Ion: 96 Resp: 269708
Ion Ratio Lower Upper
96 100
61 147.2 0.0 299.0
98 64.7 0.0 129.0



#28
Bromochloromethane
Concen: 148.269 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 49 Resp: 200978
Ion Ratio Lower Upper
49 100
129 2.2 0.0 4.2
130 77.2 62.1 93.1

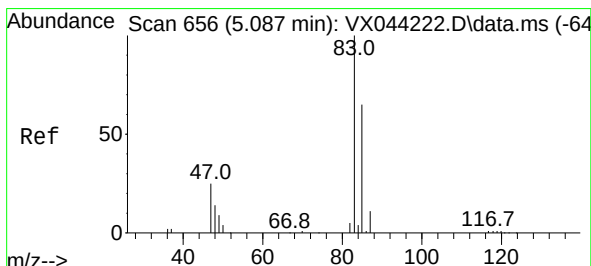
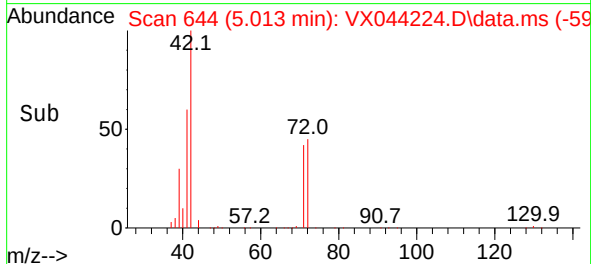
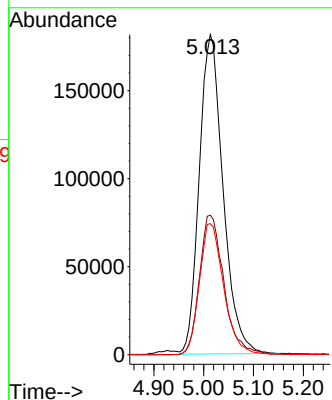
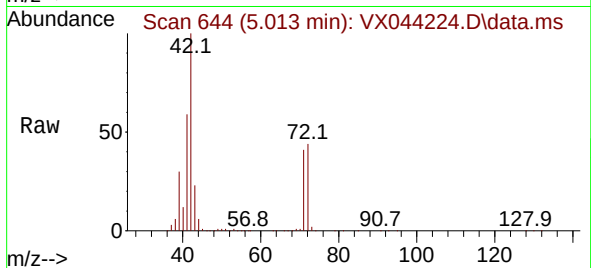




#29
Tetrahydrofuran
Concen: 782.561 ug/l
RT: 5.013 min Scan# 644
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

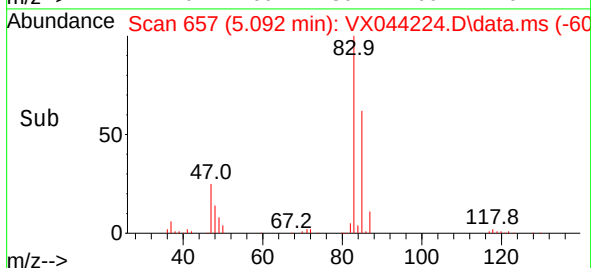
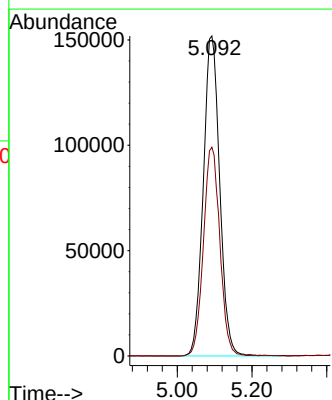
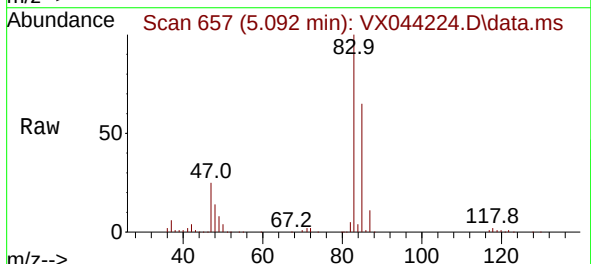
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

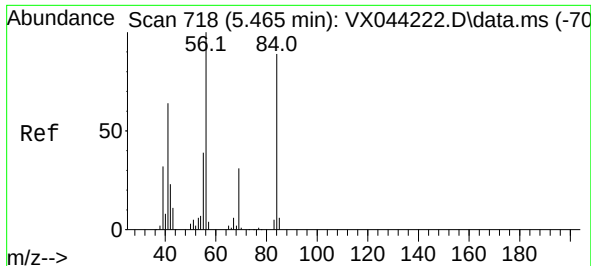
Tgt Ion: 42 Resp: 602095
Ion Ratio Lower Upper
42 100
72 44.8 37.0 55.6
71 41.7 33.6 50.4



#30
Chloroform
Concen: 149.274 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 83 Resp: 463606
Ion Ratio Lower Upper
83 100
85 65.3 51.6 77.4

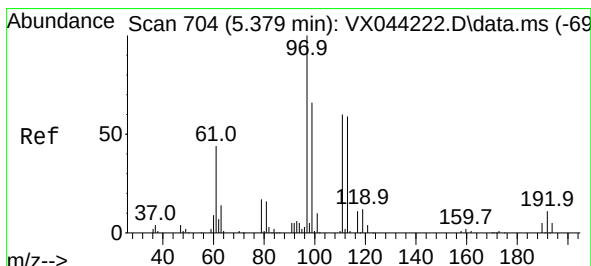
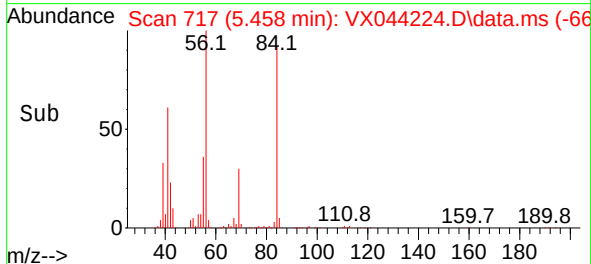
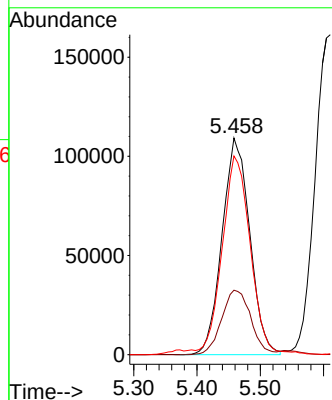
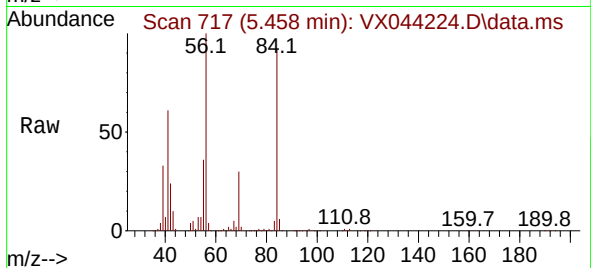




#31
Cyclohexane
Concen: 148.745 ug/l
RT: 5.458 min Scan# 718
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

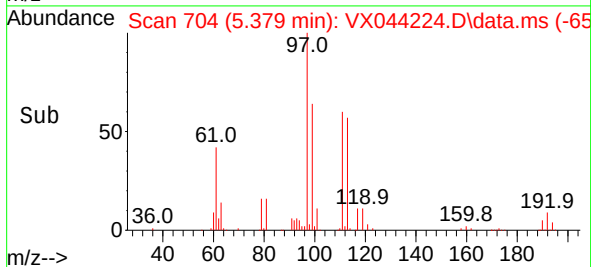
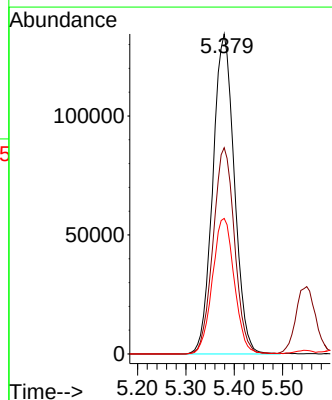
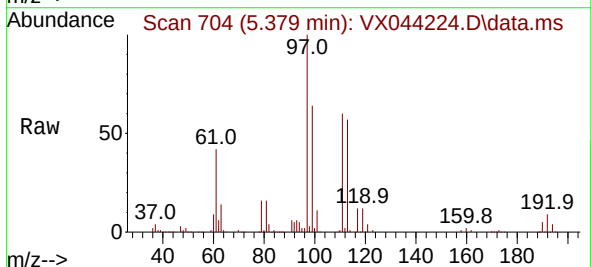
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

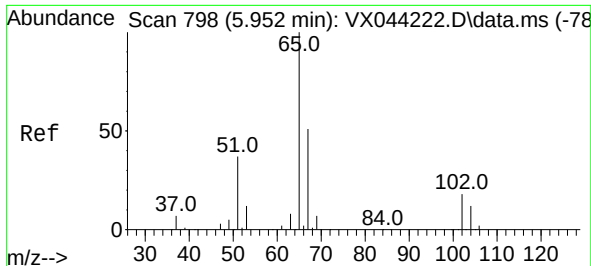
Tgt Ion: 56 Resp: 332026
Ion Ratio Lower Upper
56 100
69 29.8 24.7 37.1
84 90.1 71.0 106.6



#32
1,1,1-Trichloroethane
Concen: 161.073 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 97 Resp: 415253
Ion Ratio Lower Upper
97 100
99 64.4 50.8 76.2
61 43.2 35.2 52.8





#33

1,2-Dichloroethane-d4

Concen: 151.956 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

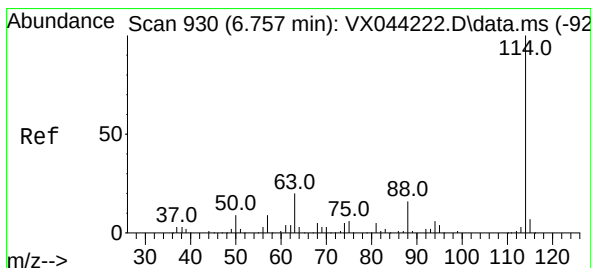
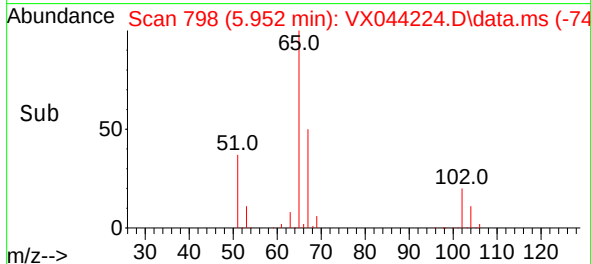
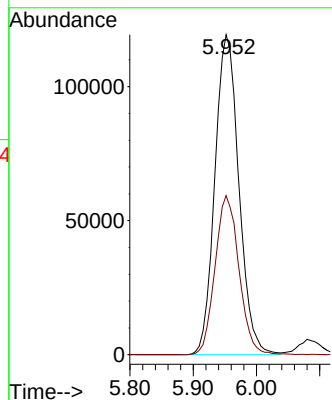
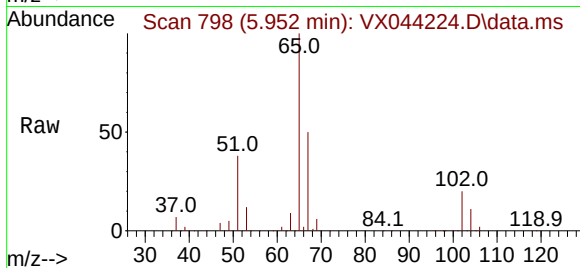
VSTDICC150

Tgt Ion: 65 Resp: 314272

Ion Ratio Lower Upper

65 100

67 49.5 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

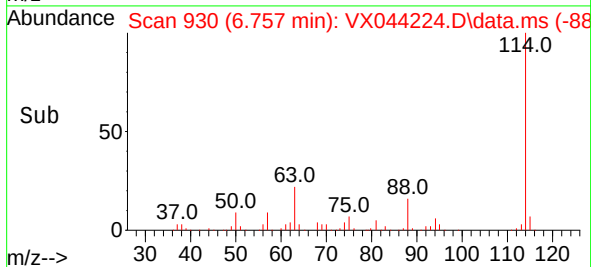
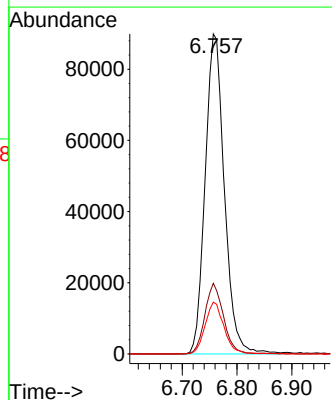
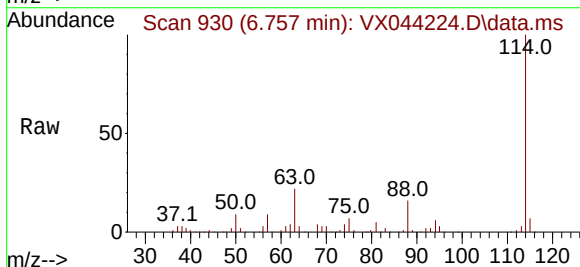
Tgt Ion: 114 Resp: 218610

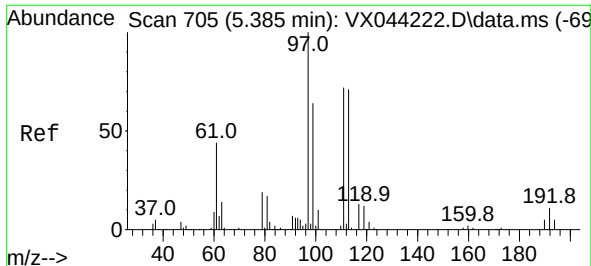
Ion Ratio Lower Upper

114 100

63 22.0 0.0 40.6

88 16.2 0.0 31.8





#35

Dibromofluoromethane

Concen: 153.188 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

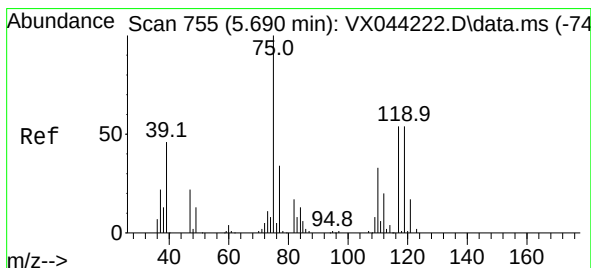
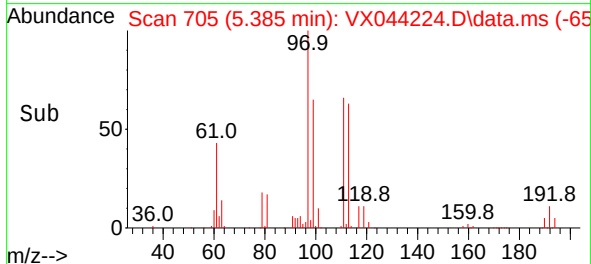
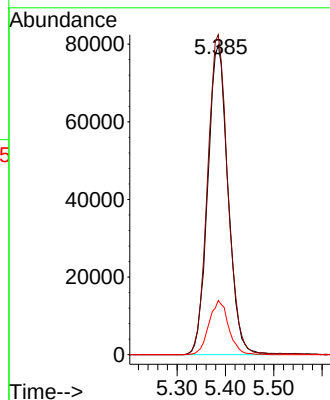
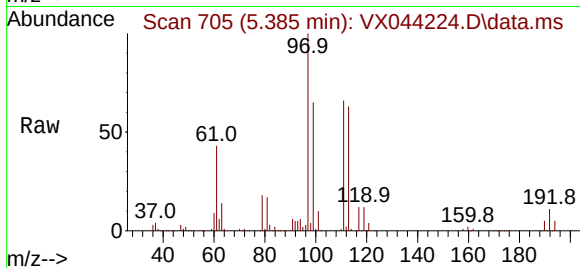
Tgt Ion:113 Resp: 231937

Ion Ratio Lower Upper

113 100

111 103.1 80.4 120.6

192 17.0 13.3 19.9



#36

1,1-Dichloropropene

Concen: 148.642 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

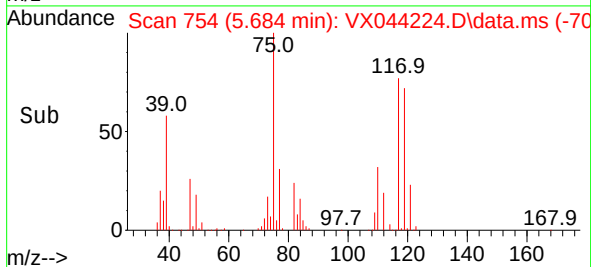
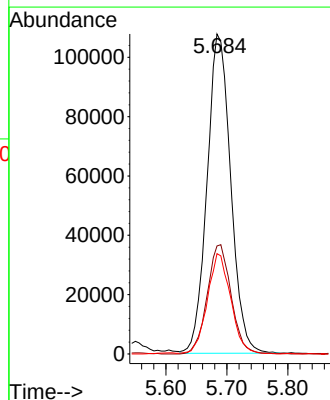
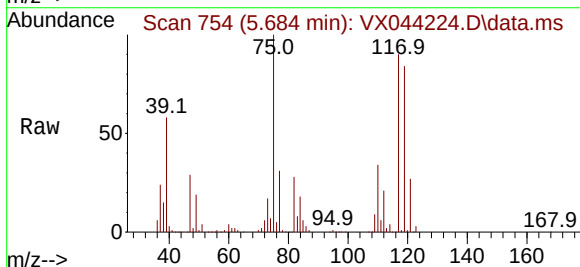
Tgt Ion: 75 Resp: 290913

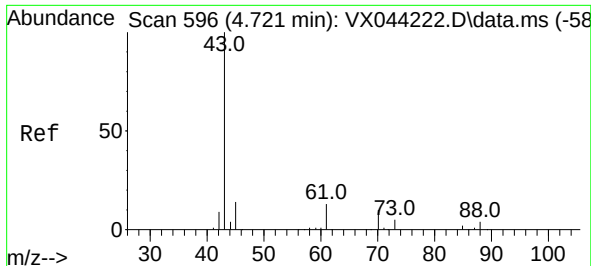
Ion Ratio Lower Upper

75 100

110 34.6 17.3 51.7

77 31.1 25.4 38.0





#37

Ethyl Acetate

Concen: 155.731 ug/l

RT: 4.721 min Scan# 596

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

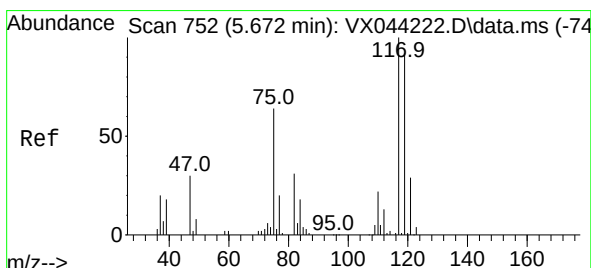
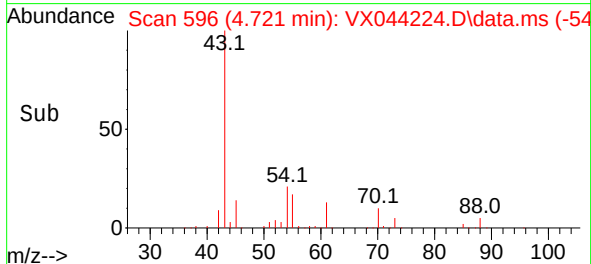
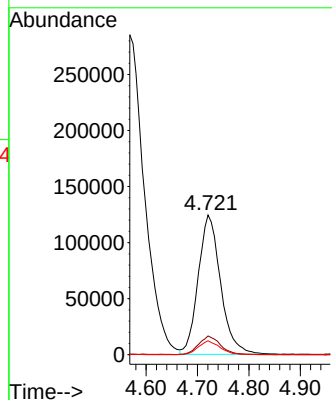
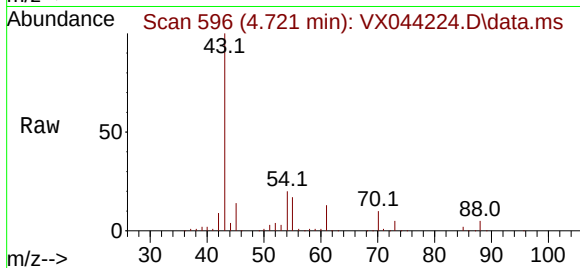
Tgt Ion: 43 Resp: 376757

Ion Ratio Lower Upper

43 100

61 13.2 9.8 14.8

70 9.6 7.7 11.5



#38

Carbon Tetrachloride

Concen: 164.587 ug/l

RT: 5.672 min Scan# 752

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

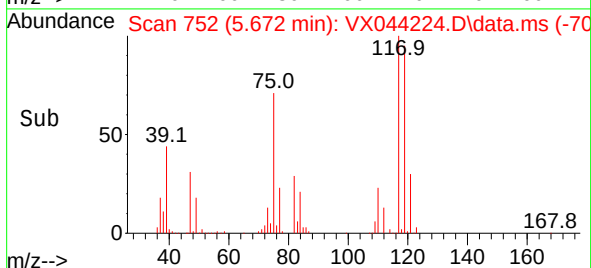
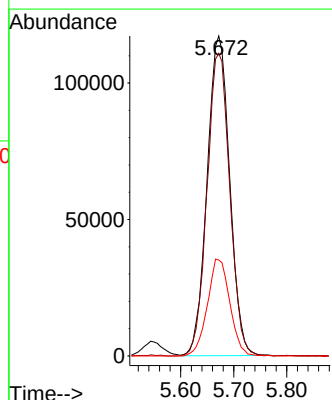
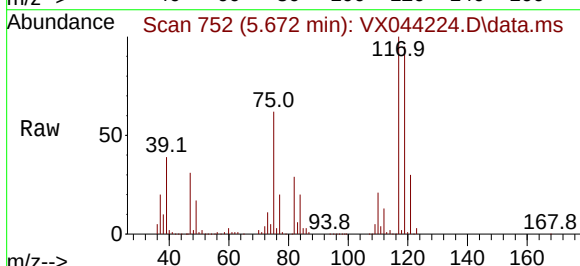
Tgt Ion: 117 Resp: 346795

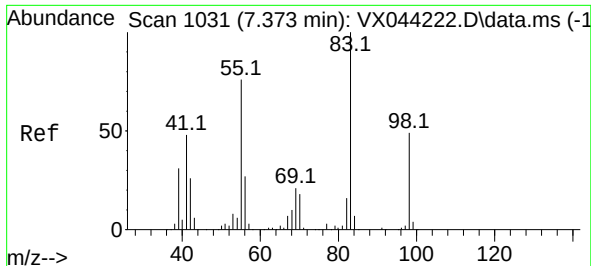
Ion Ratio Lower Upper

117 100

119 94.6 74.2 111.4

121 30.1 23.0 34.6

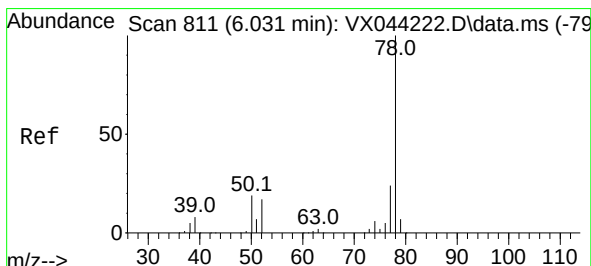
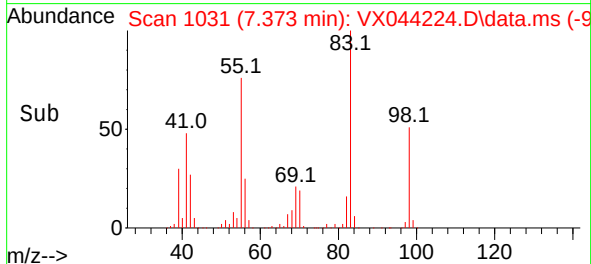
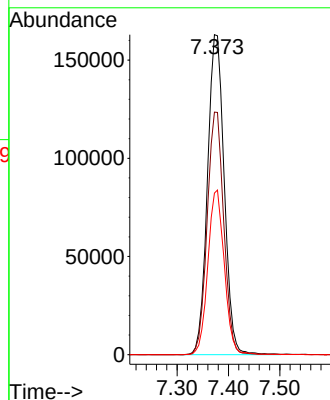
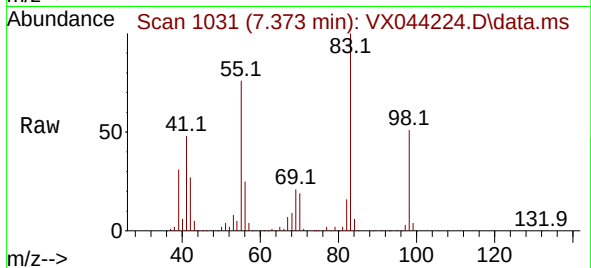




#39
Methylcyclohexane
Concen: 157.516 ug/l
RT: 7.373 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

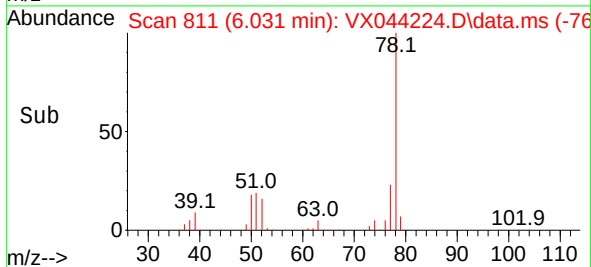
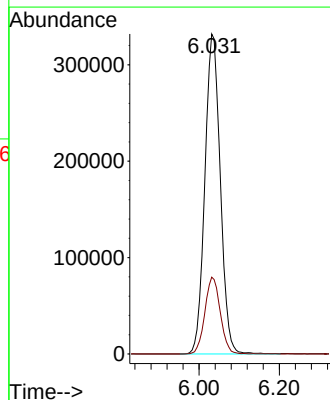
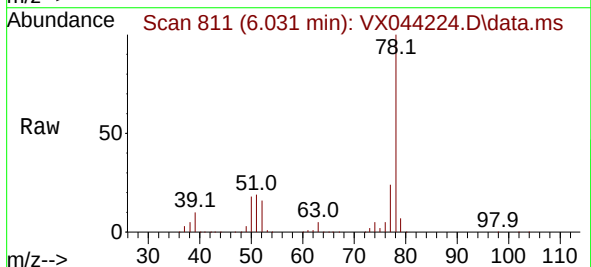
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

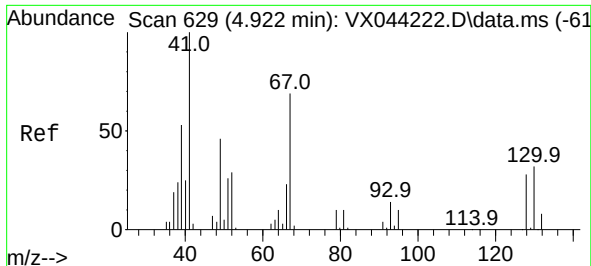
Tgt Ion: 83 Resp: 368542
Ion Ratio Lower Upper
83 100
55 75.8 60.7 91.1
98 50.5 38.9 58.3



#40
Benzene
Concen: 149.340 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 78 Resp: 887413
Ion Ratio Lower Upper
78 100
77 24.0 19.3 28.9



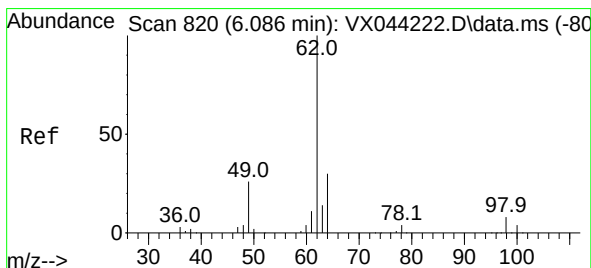
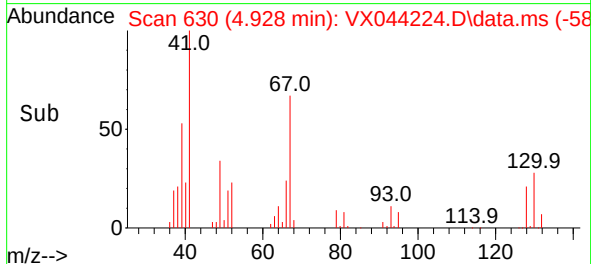
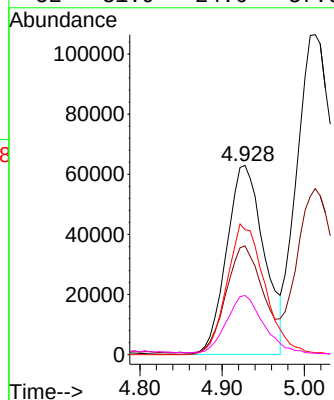
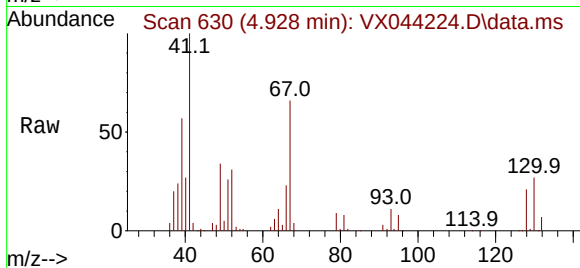


#41
Methacrylonitrile
Concen: 155.569 ug/l
RT: 4.928 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 41 Resp: 199851

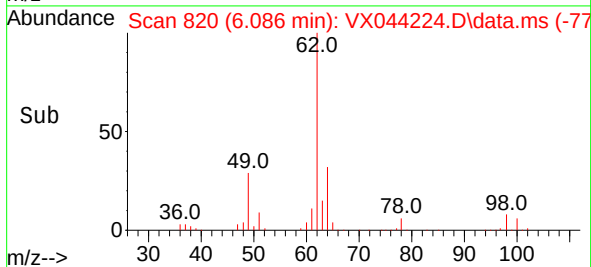
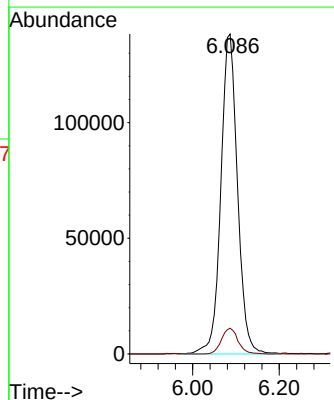
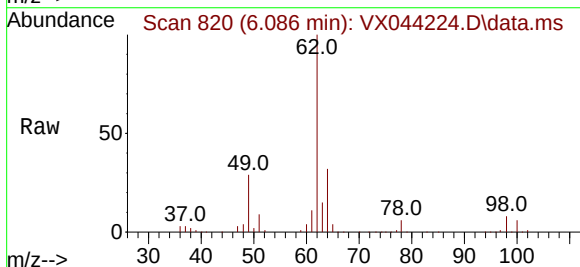
Ion	Ratio	Lower	Upper
41	100		
39	54.5	44.2	66.4
67	70.2	57.2	85.8
52	31.9	24.6	37.0

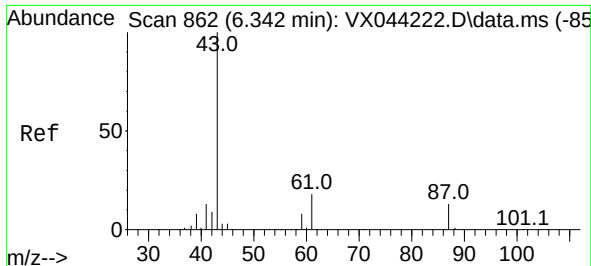


#42
1,2-Dichloroethane
Concen: 151.105 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 62 Resp: 369874

Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	15.8

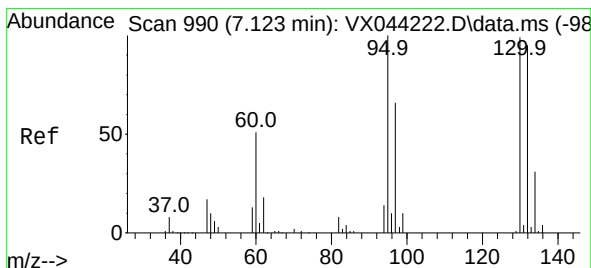
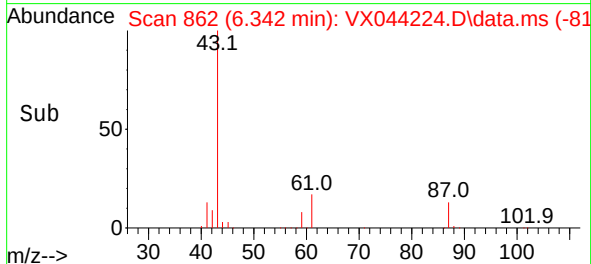
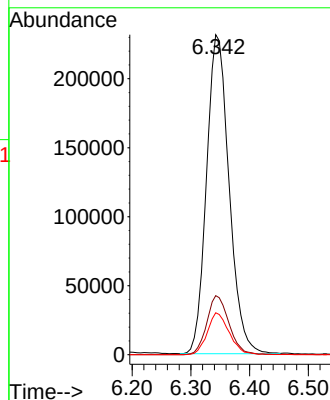
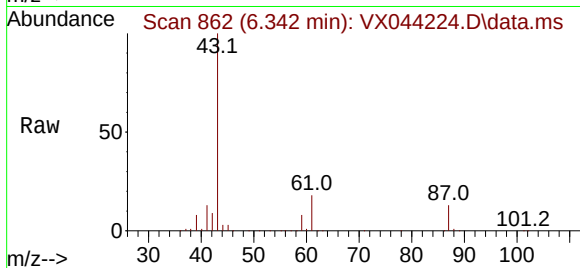




#43
Isopropyl Acetate
Concen: 163.200 ug/l
RT: 6.342 min Scan# 862
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

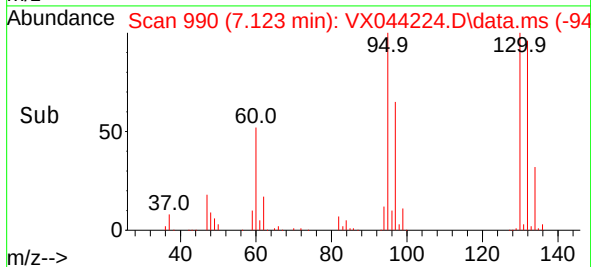
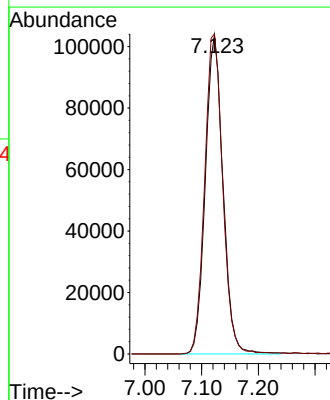
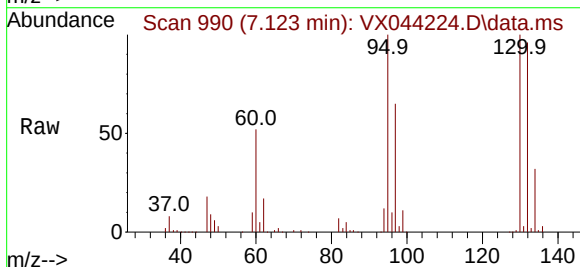
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

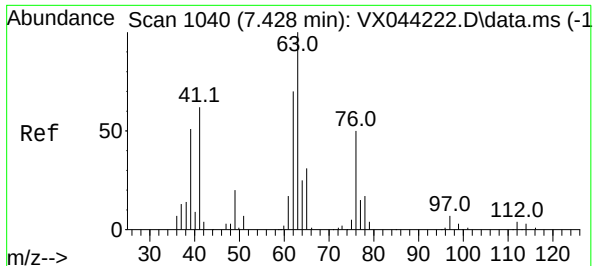
Tgt Ion: 43 Resp: 617107
Ion Ratio Lower Upper
43 100
61 18.2 14.2 21.2
87 12.8 10.2 15.2



#44
Trichloroethene
Concen: 151.275 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:130 Resp: 224164
Ion Ratio Lower Upper
130 100
95 100.3 0.0 201.4





#45

1,2-Dichloropropane

Concen: 147.697 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

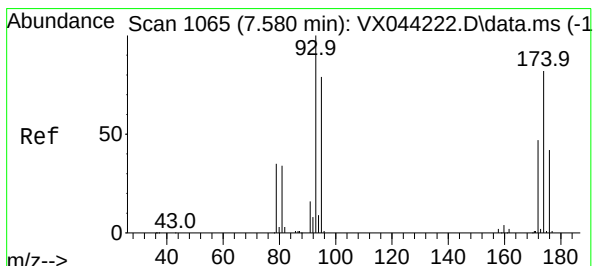
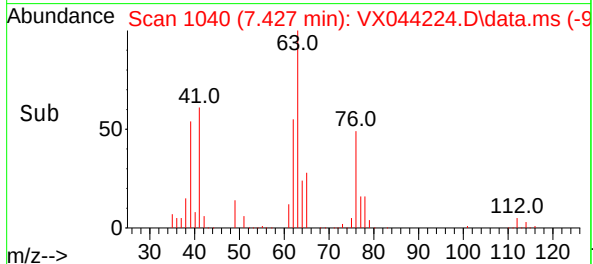
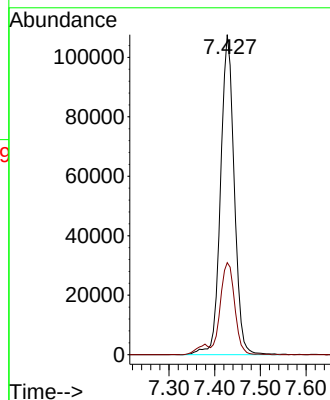
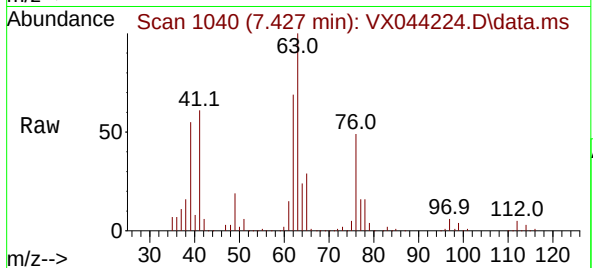
VSTDIC150

Tgt Ion: 63 Resp: 224224

Ion Ratio Lower Upper

63 100

65 28.8 24.6 37.0



#46

Dibromomethane

Concen: 156.728 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

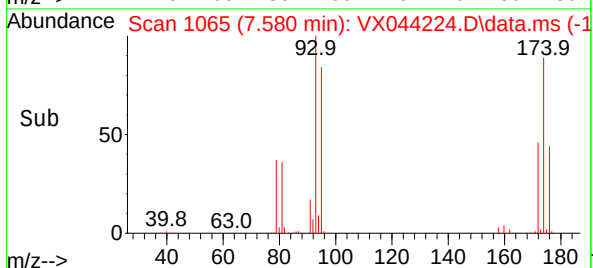
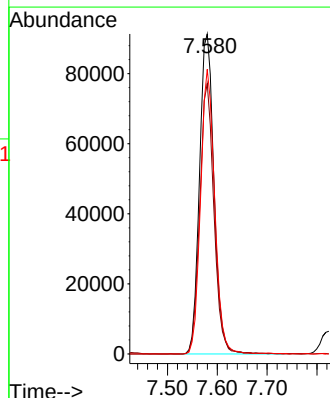
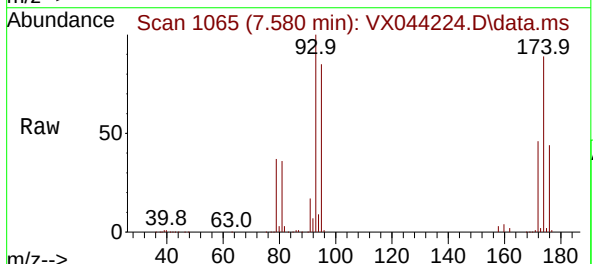
Tgt Ion: 93 Resp: 184590

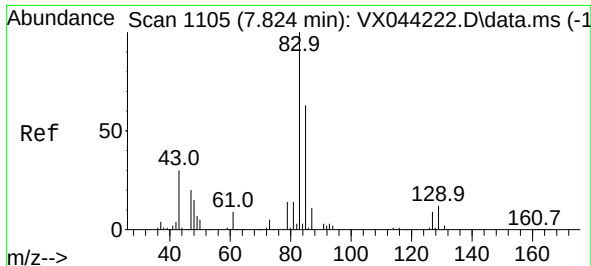
Ion Ratio Lower Upper

93 100

95 82.4 65.4 98.2

174 86.7 67.9 101.9

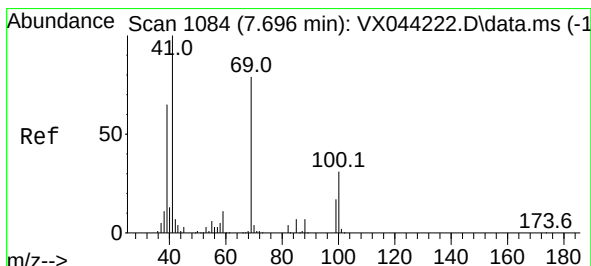
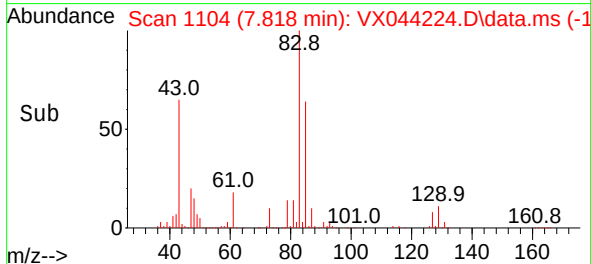
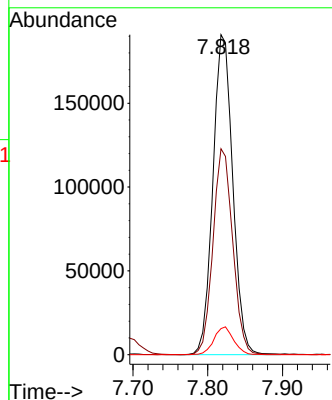
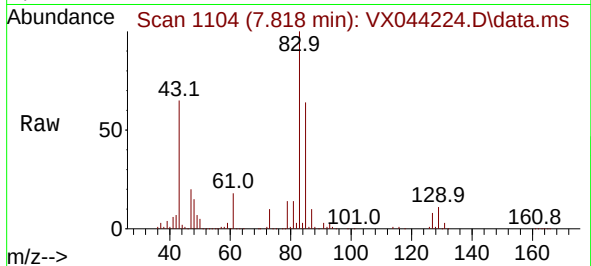




#47
Bromodichloromethane
Concen: 173.496 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

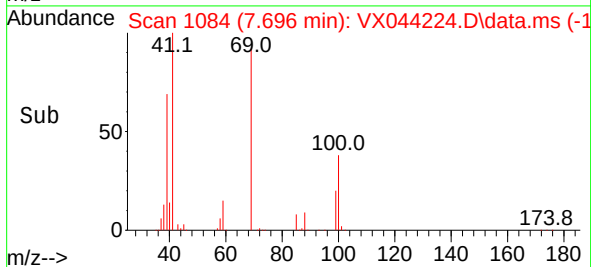
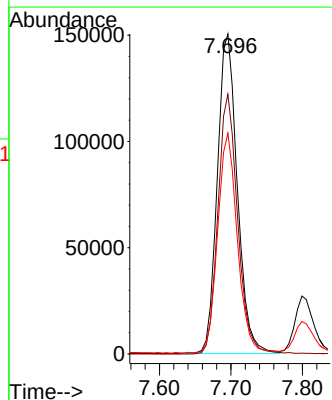
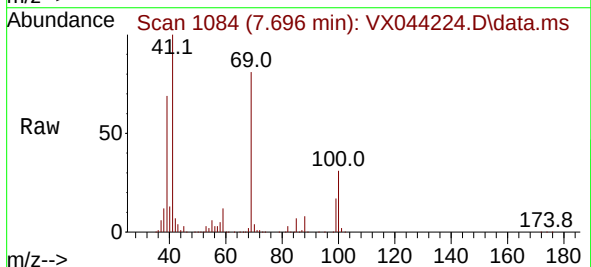
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

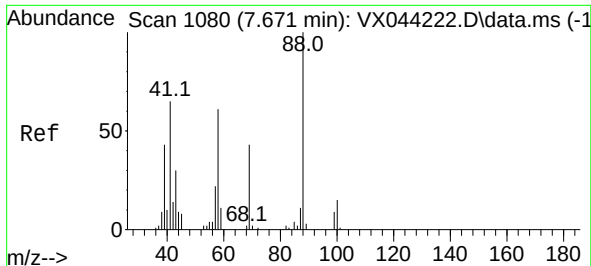
Tgt Ion: 83 Resp: 352904
Ion Ratio Lower Upper
83 100
85 64.3 50.6 75.8
127 8.1 7.3 10.9



#48
Methyl methacrylate
Concen: 159.567 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 41 Resp: 292890
Ion Ratio Lower Upper
41 100
69 80.0 62.4 93.6
39 67.8 53.3 79.9





#49

1,4-Dioxane

Concen: 3539.235 ug/l

RT: 7.665 min Scan# 11023

Delta R.T. -0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

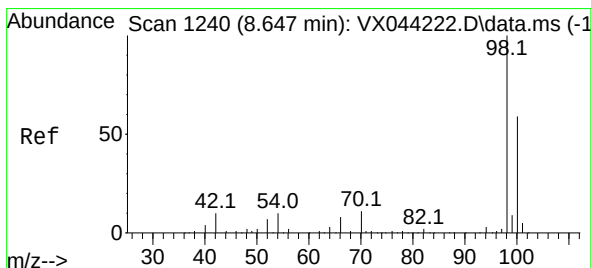
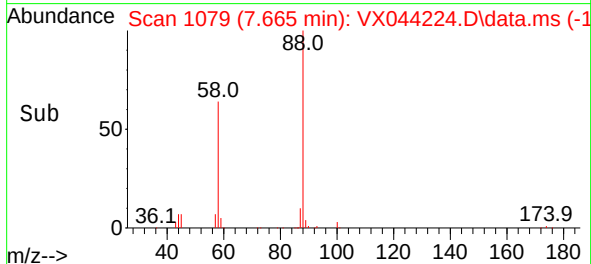
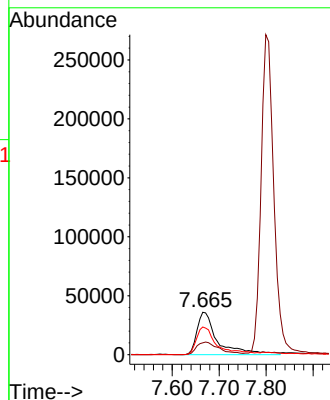
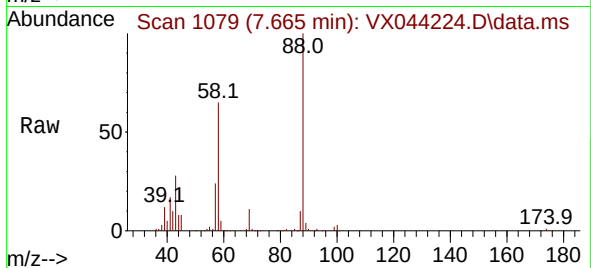
Tgt Ion: 88 Resp: 111023

Ion Ratio Lower Upper

88 100

43 32.0 27.1 40.7

58 63.3 41.0 61.4#



#50

Toluene-d8

Concen: 154.438 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX044224.D

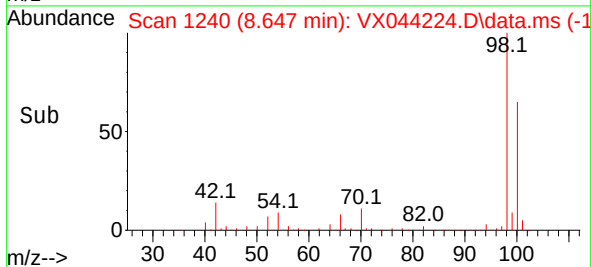
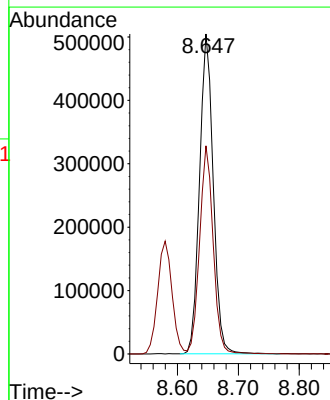
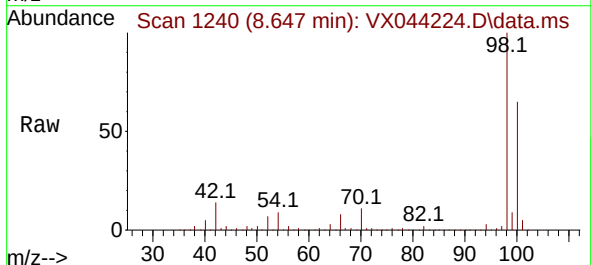
Acq: 11 Dec 2024 13:00

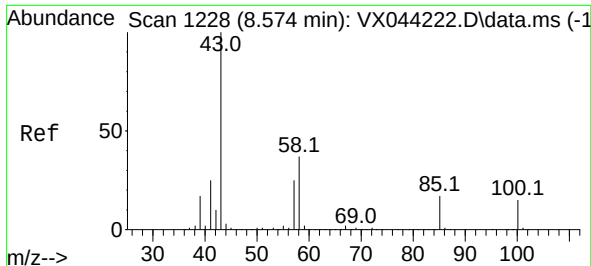
Tgt Ion: 98 Resp: 788876

Ion Ratio Lower Upper

98 100

100 64.4 51.5 77.3

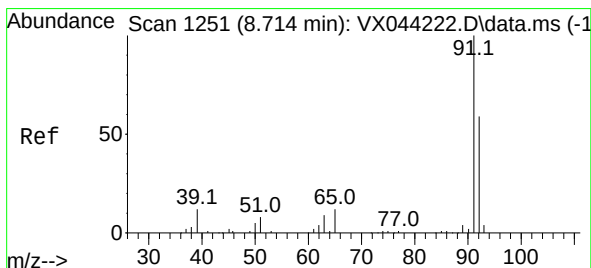
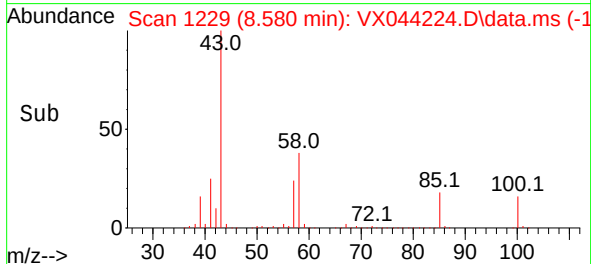
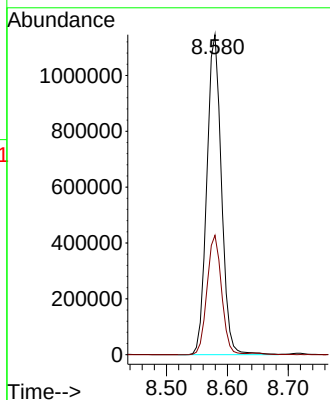
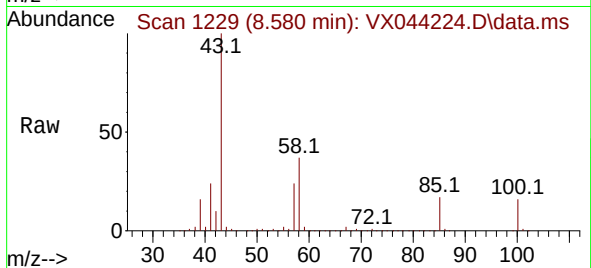




#51
4-Methyl-2-Pentanone
Concen: 784.573 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

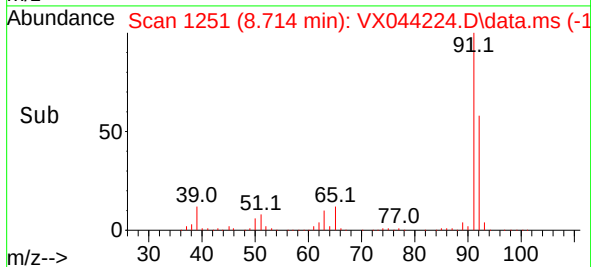
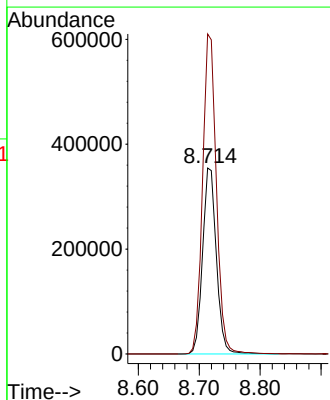
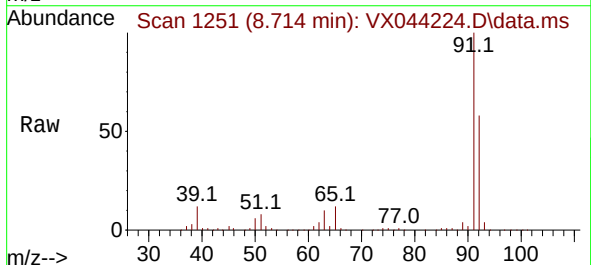
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

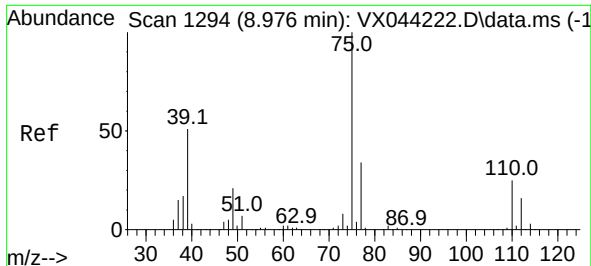
Tgt Ion: 43 Resp: 1907523
Ion Ratio Lower Upper
43 100
58 37.1 29.4 44.0



#52
Toluene
Concen: 149.294 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 92 Resp: 557102
Ion Ratio Lower Upper
92 100
91 172.4 137.0 205.6





#53

t-1,3-Dichloropropene

Concen: 150.167 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

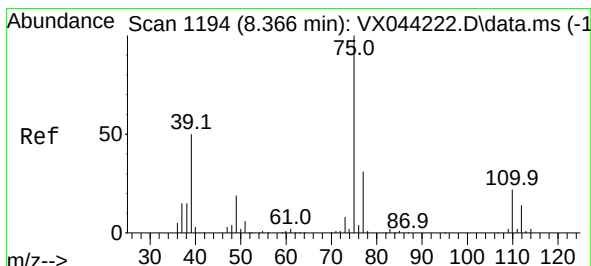
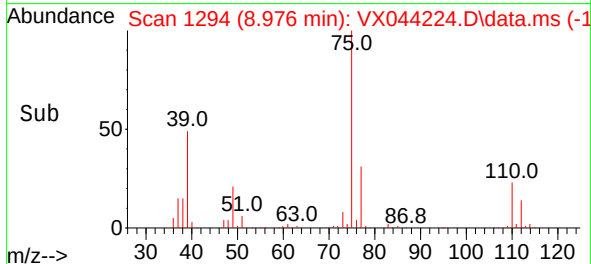
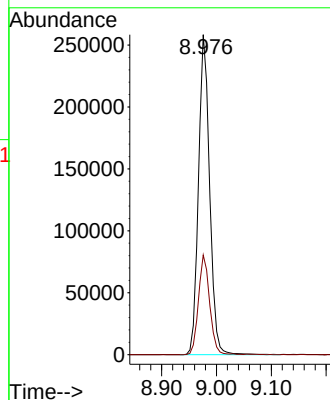
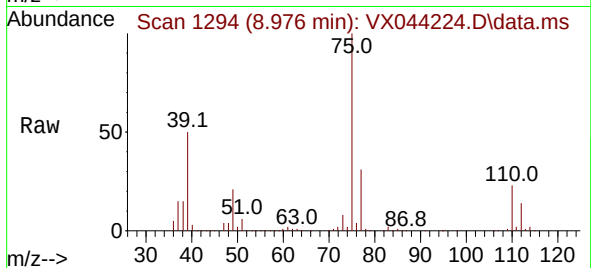
VSTDICC150

Tgt Ion: 75 Resp: 366275

Ion Ratio Lower Upper

75 100

77 31.1 27.2 40.8



#54

cis-1,3-Dichloropropene

Concen: 172.581 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

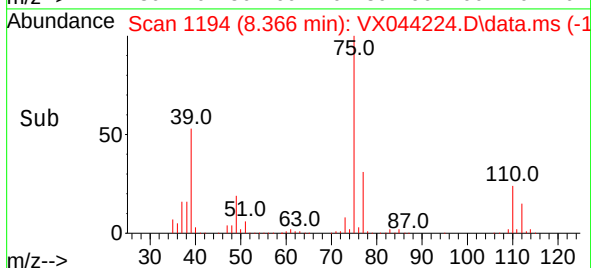
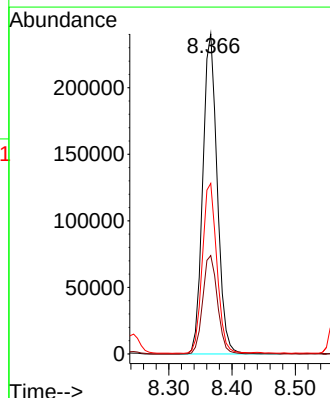
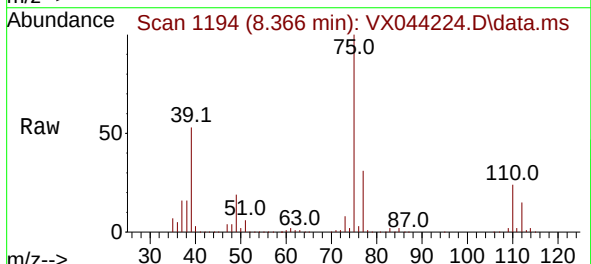
Tgt Ion: 75 Resp: 382226

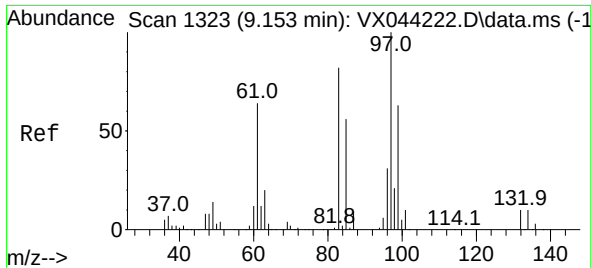
Ion Ratio Lower Upper

75 100

77 30.8 24.7 37.1

39 53.1 40.3 60.5

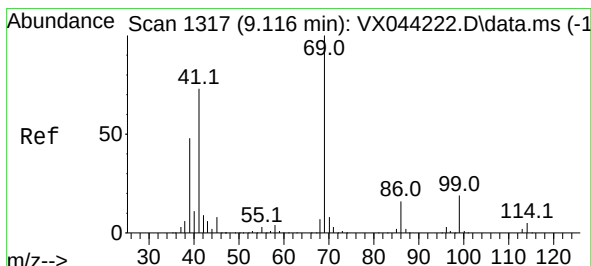
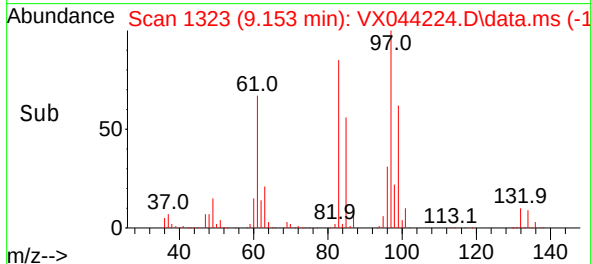
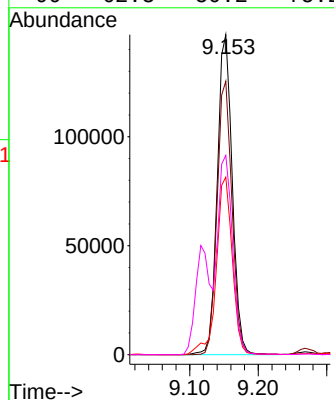
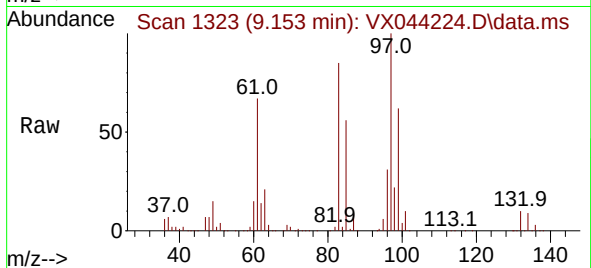




#55
1,1,2-Trichloroethane
Concen: 150.202 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

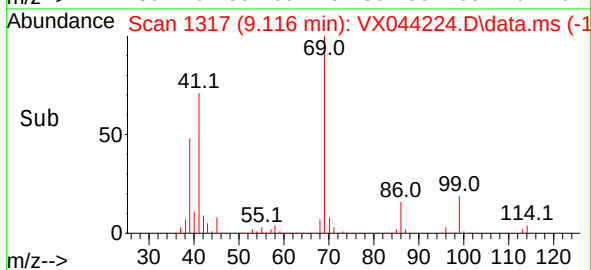
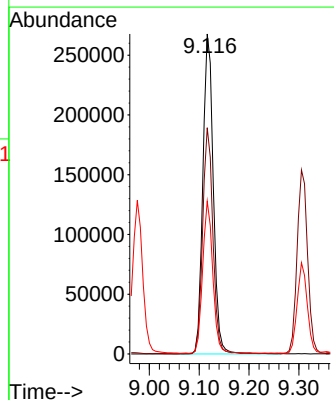
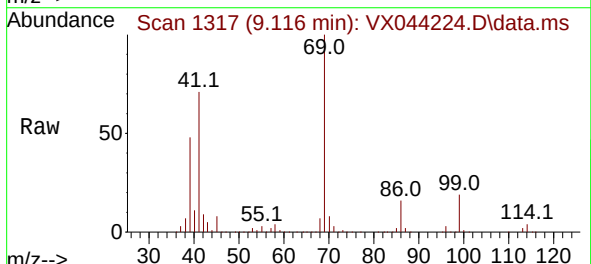
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

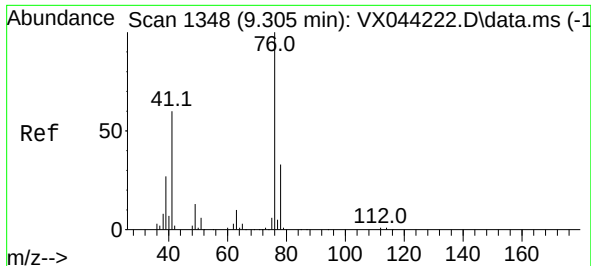
Tgt Ion:	97	Resp:	222665
Ion	Ratio	Lower	Upper
97	100		
83	85.5	65.3	97.9
85	55.5	44.6	67.0
99	62.3	50.2	75.2



#56
Ethyl methacrylate
Concen: 166.289 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:	69	Resp:	389165
Ion	Ratio	Lower	Upper
69	100		
41	69.4	56.6	85.0
39	46.2	37.4	56.0

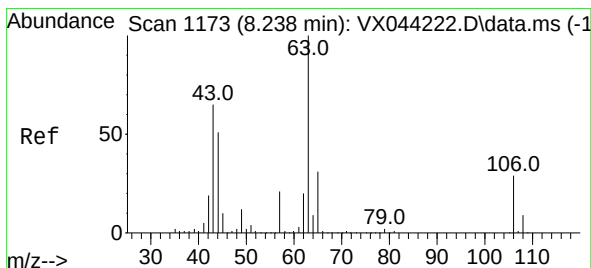
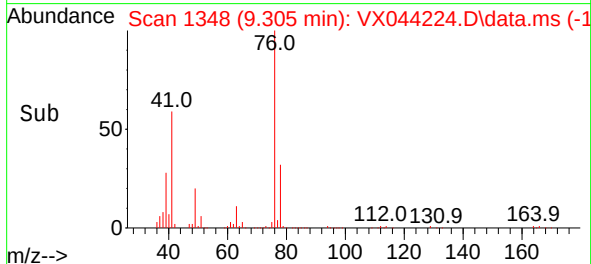
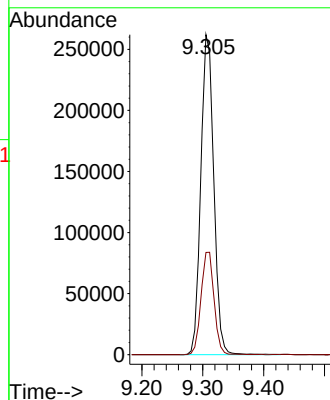
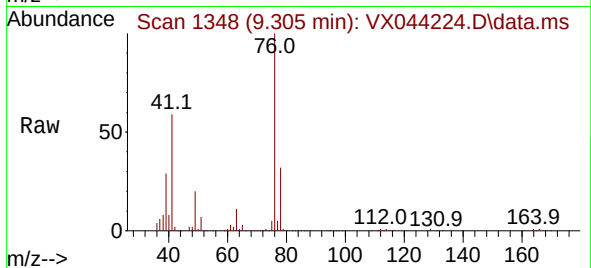




#57
1,3-Dichloropropane
Concen: 150.014 ug/l
RT: 9.305 min Scan# 1174
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

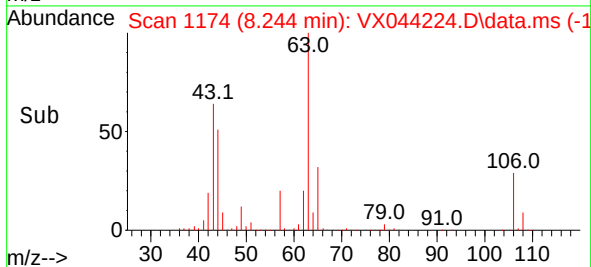
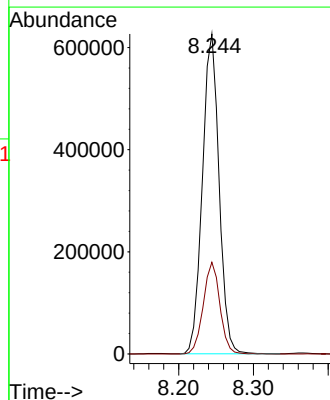
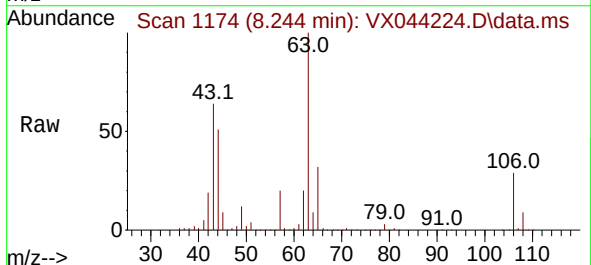
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

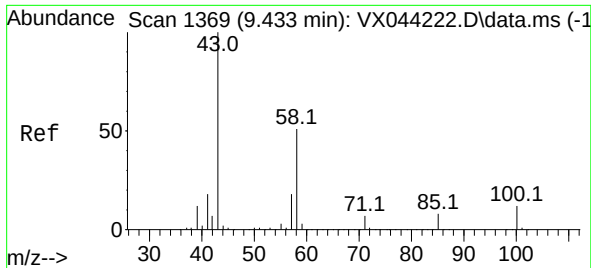
Tgt Ion: 76 Resp: 387086
Ion Ratio Lower Upper
76 100
78 32.2 26.5 39.7



#58
2-Chloroethyl Vinyl ether
Concen: 822.575 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 63 Resp: 970949
Ion Ratio Lower Upper
63 100
106 28.5 22.8 34.2





#59

2-Hexanone

Concen: 816.161 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

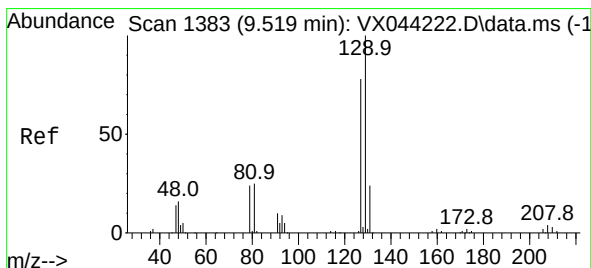
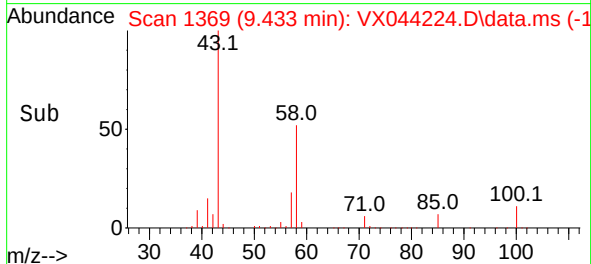
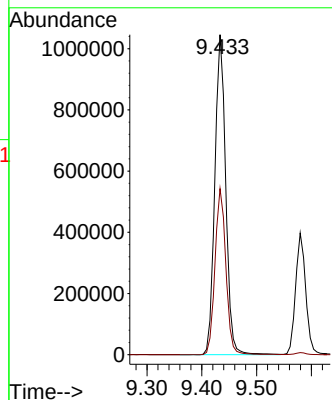
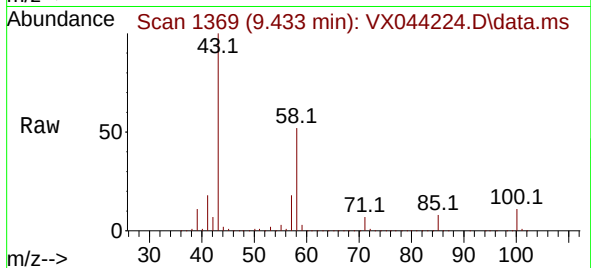
VSTDICC150

Tgt Ion: 43 Resp: 1436300

Ion Ratio Lower Upper

43 100

58 52.0 25.7 77.0



#60

Dibromochloromethane

Concen: 150.105 ug/l

RT: 9.525 min Scan# 1384

Delta R.T. 0.006 min

Lab File: VX044224.D

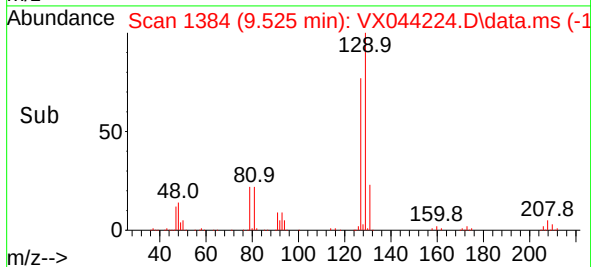
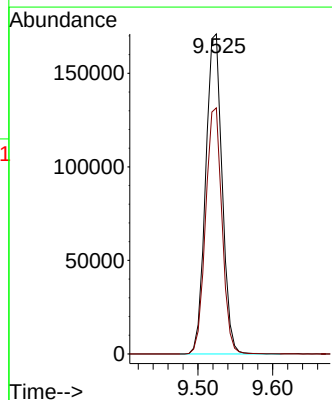
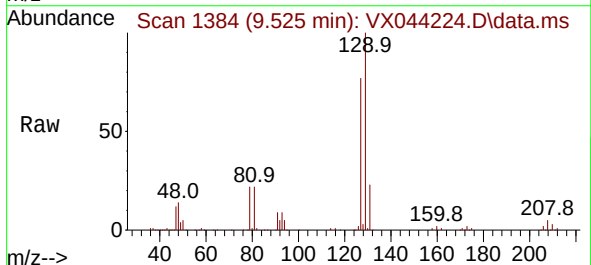
Acq: 11 Dec 2024 13:00

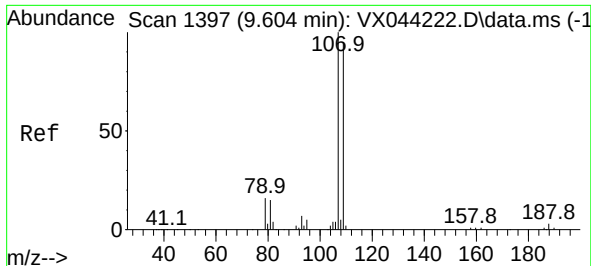
Tgt Ion: 129 Resp: 261253

Ion Ratio Lower Upper

129 100

127 76.5 38.5 115.3





#61

1,2-Dibromoethane

Concen: 160.674 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

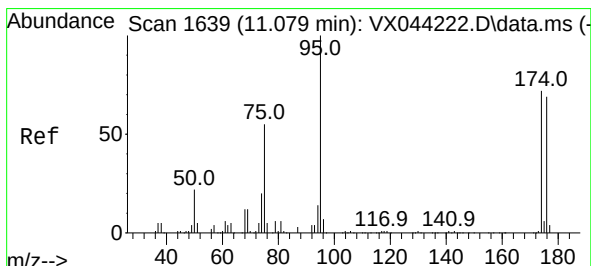
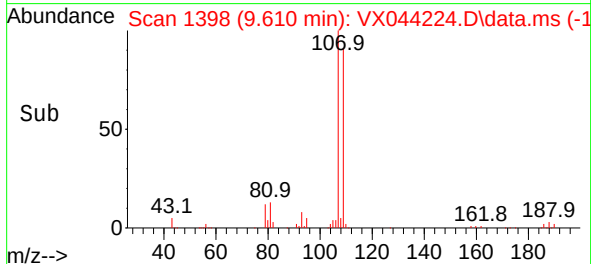
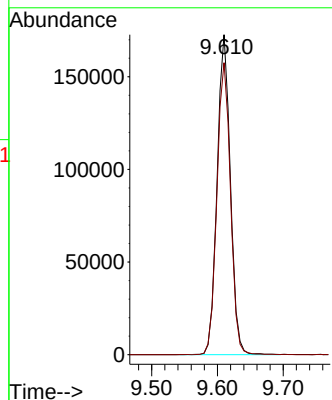
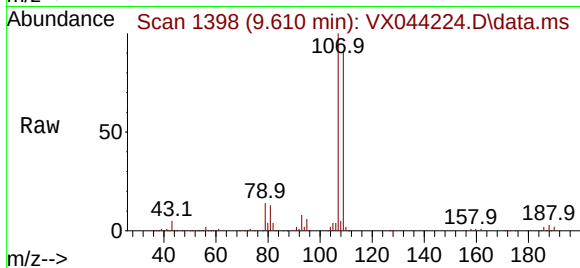
VSTDIC150

Tgt Ion:107 Resp: 242451

Ion Ratio Lower Upper

107 100

109 93.4 77.0 115.4



#62

4-Bromofluorobenzene

Concen: 156.709 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

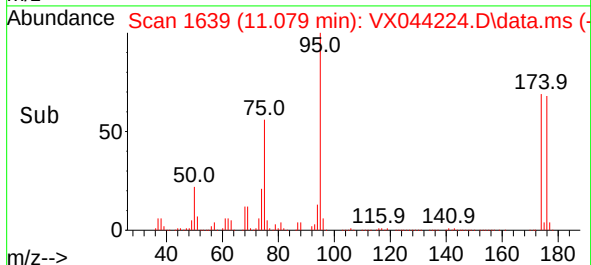
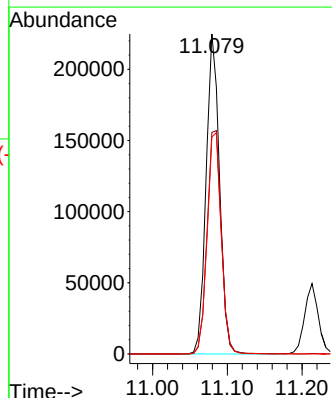
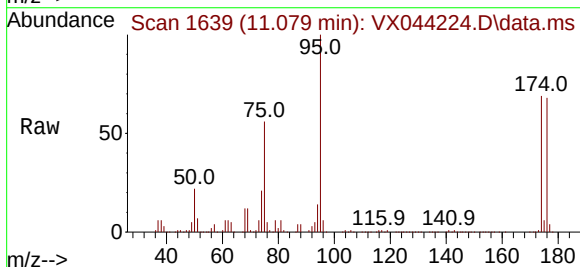
Tgt Ion: 95 Resp: 279706

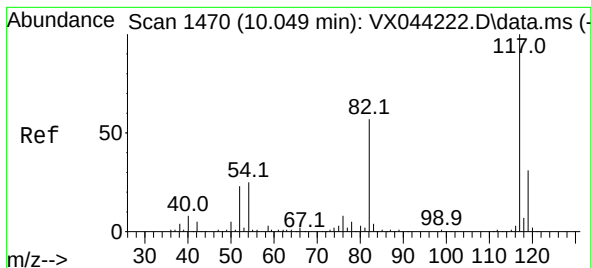
Ion Ratio Lower Upper

95 100

174 74.1 0.0 145.8

176 72.6 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

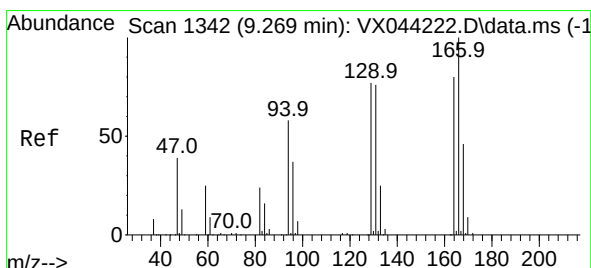
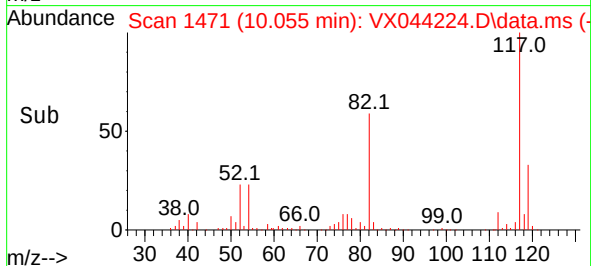
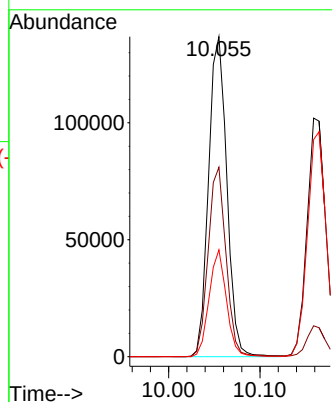
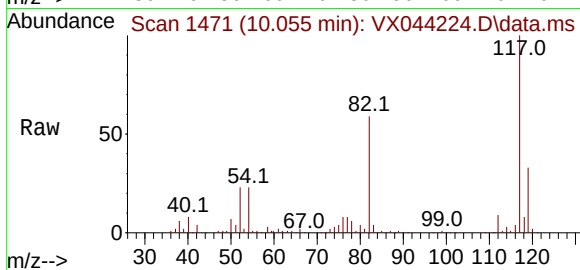
Tgt Ion:117 Resp: 190013

Ion Ratio Lower Upper

117 100

82 59.2 45.8 68.8

119 33.4 25.0 37.4



#64

Tetrachloroethene

Concen: 147.836 ug/l

RT: 9.269 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Tgt Ion:164 Resp: 186443

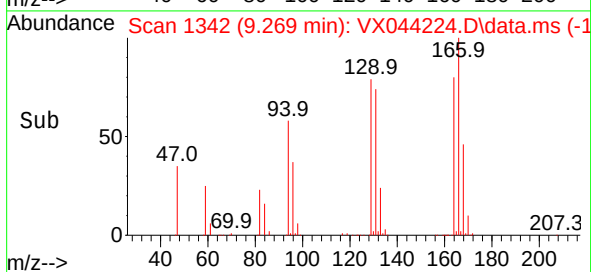
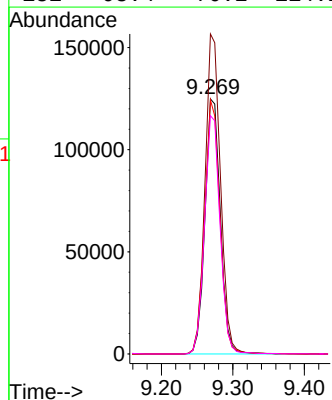
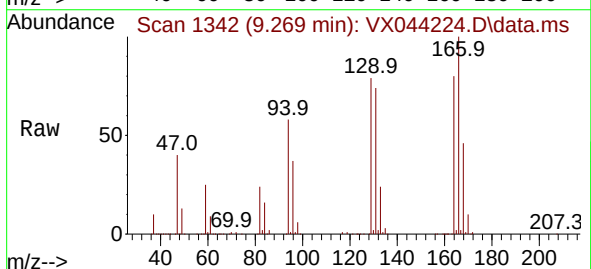
Ion Ratio Lower Upper

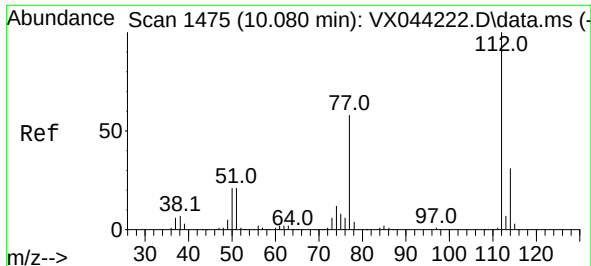
164 100

166 125.5 100.4 150.6

129 99.7 77.2 115.8

131 93.4 76.2 114.2

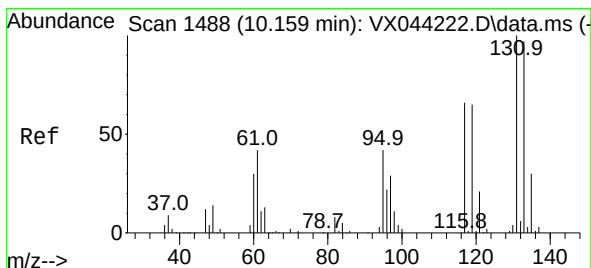
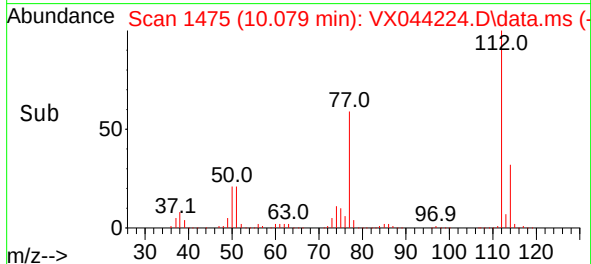
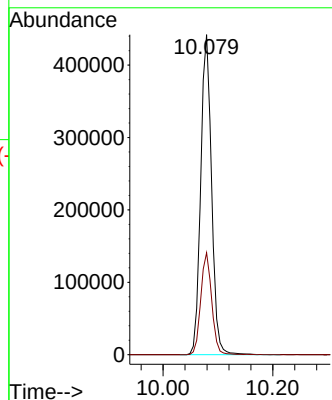
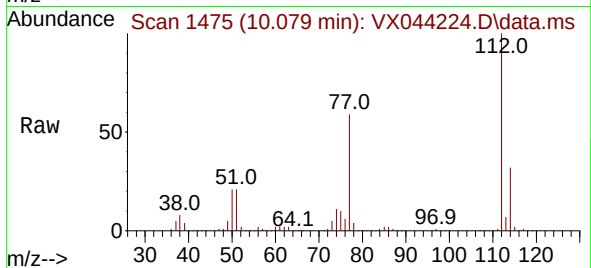




#65
Chlorobenzene
Concen: 149.428 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

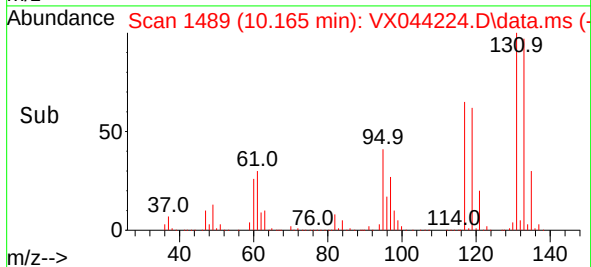
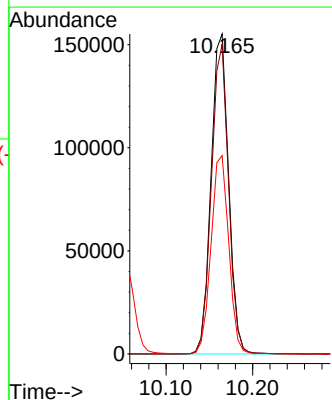
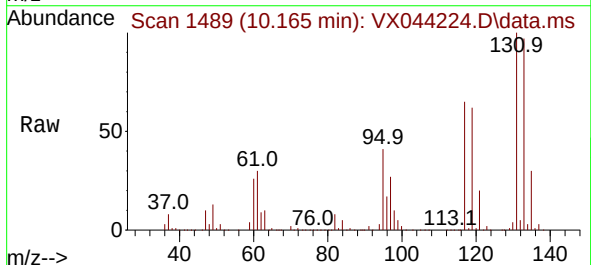
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

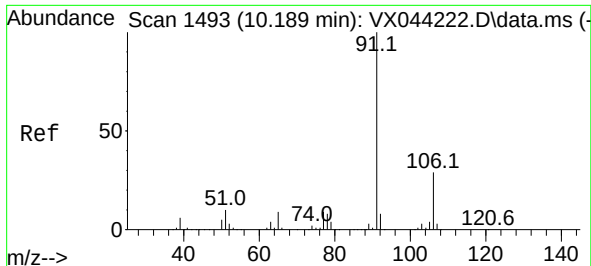
Tgt Ion:112 Resp: 608404
Ion Ratio Lower Upper
112 100
114 31.9 25.0 37.6



#66
1,1,1,2-Tetrachloroethane
Concen: 166.991 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:131 Resp: 218515
Ion Ratio Lower Upper
131 100
133 94.5 47.3 141.8
119 62.7 31.6 95.0





#67

Ethyl Benzene

Concen: 151.917 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

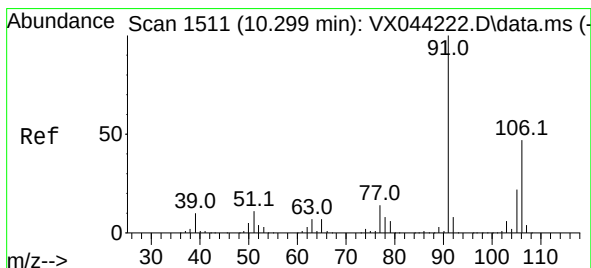
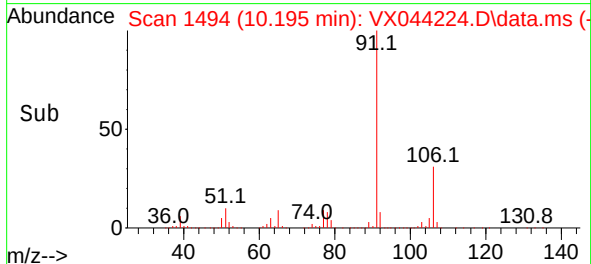
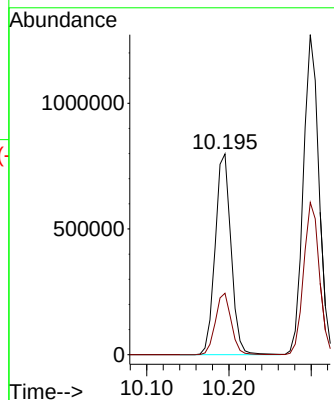
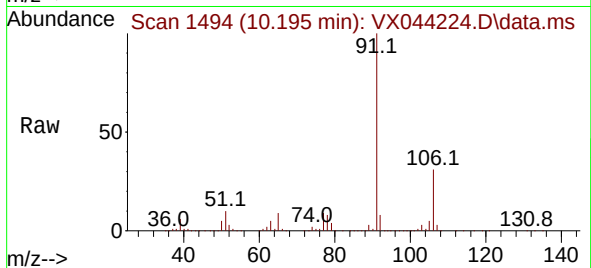
VSTDICC150

Tgt Ion: 91 Resp: 1068736

Ion Ratio Lower Upper

91 100

106 30.6 23.5 35.3



#68

m/p-Xylenes

Concen: 312.254 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX044224.D

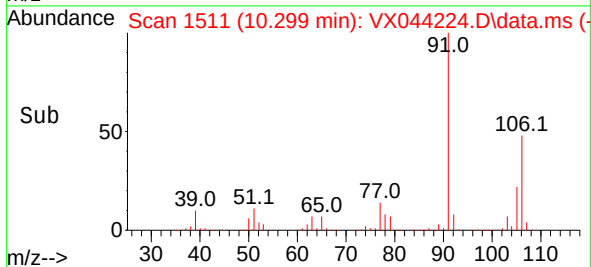
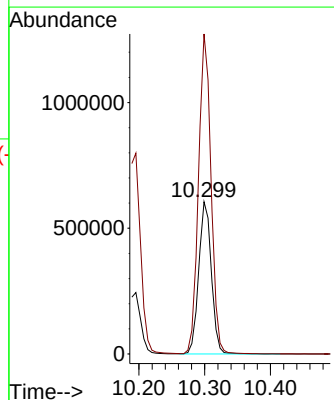
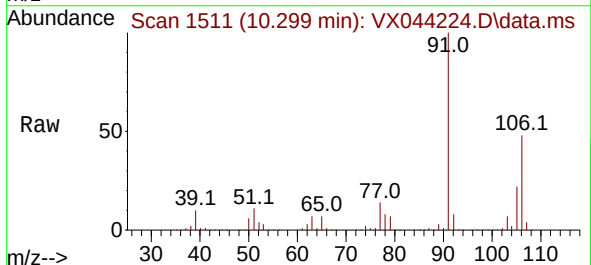
Acq: 11 Dec 2024 13:00

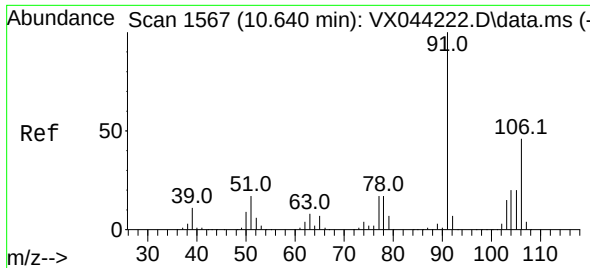
Tgt Ion:106 Resp: 806058

Ion Ratio Lower Upper

106 100

91 208.8 170.2 255.2

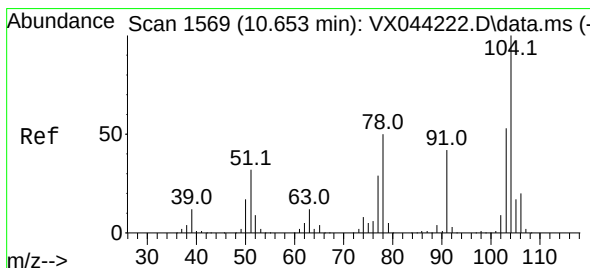
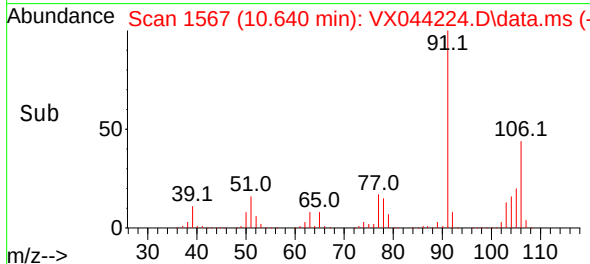
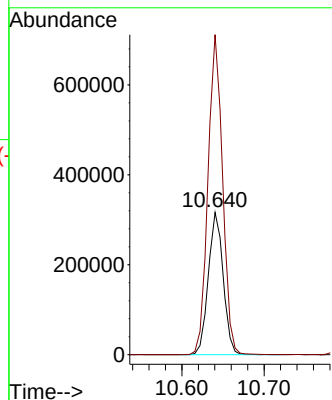
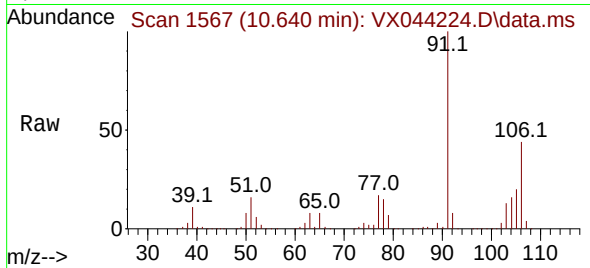




#69
o-Xylene
Concen: 152.030 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

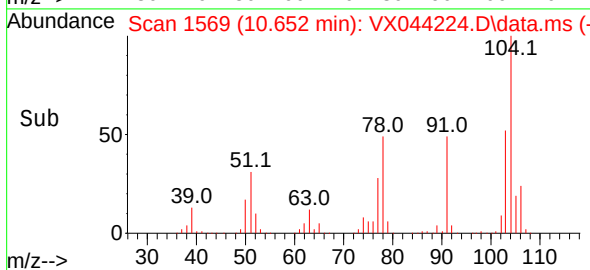
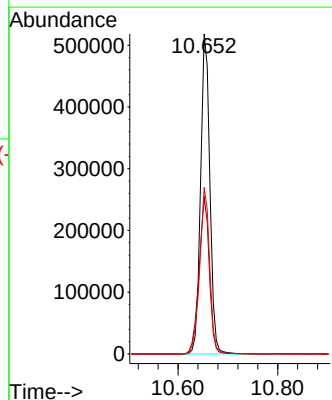
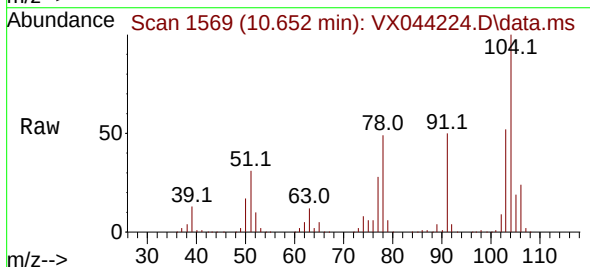
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

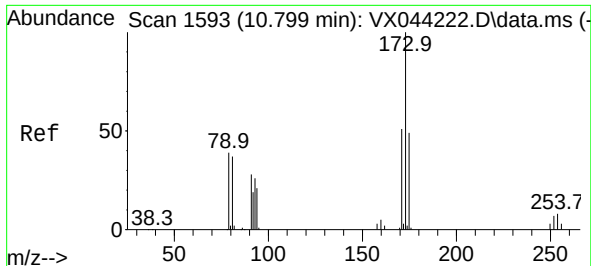
Tgt Ion:106 Resp: 397084
Ion Ratio Lower Upper
106 100
91 221.5 112.3 337.0



#70
Styrene
Concen: 160.228 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:104 Resp: 670887
Ion Ratio Lower Upper
104 100
78 54.2 44.6 67.0
103 55.9 45.4 68.0

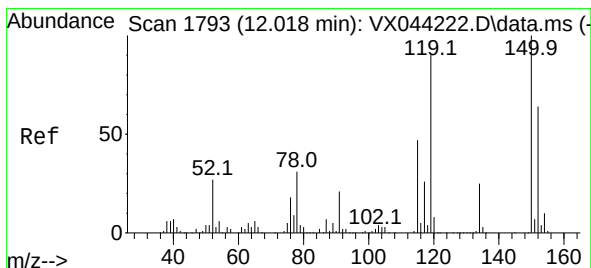
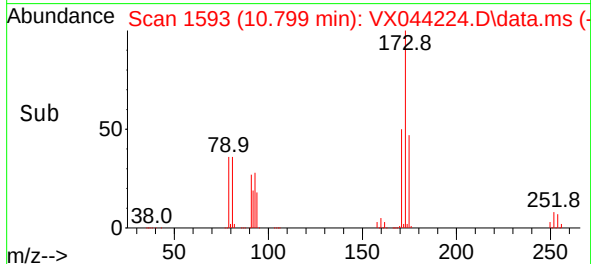
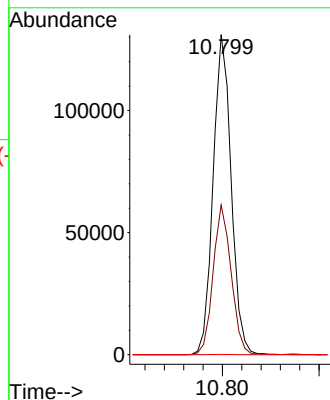
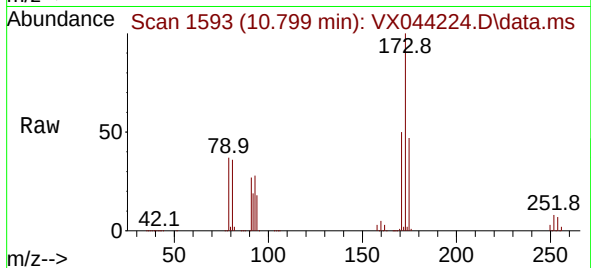




#71
Bromoform
Concen: 150.034 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

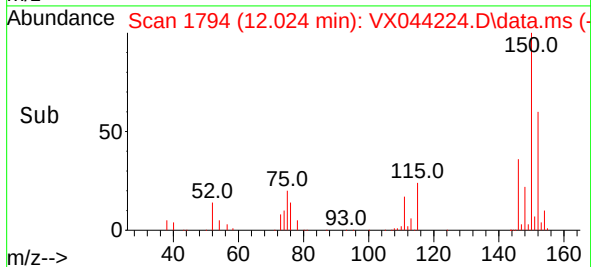
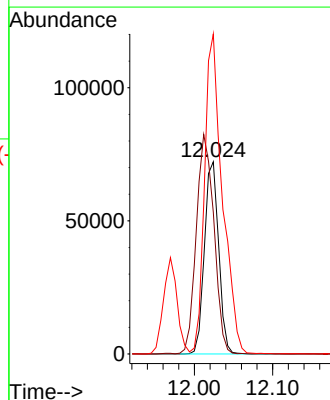
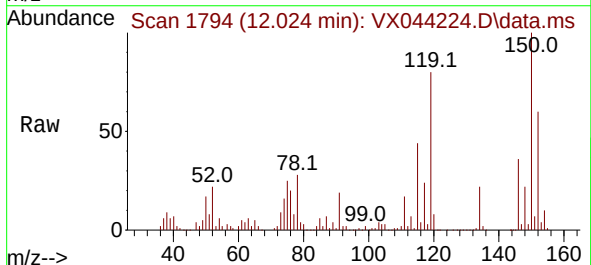
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

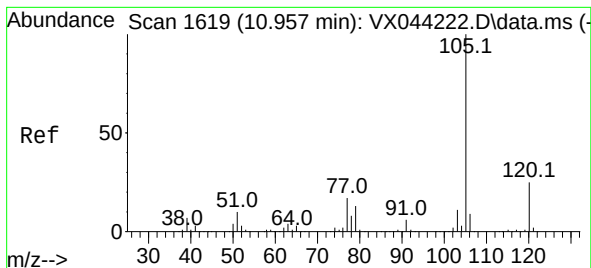
Tgt Ion:173 Resp: 169450
Ion Ratio Lower Upper
173 100
175 46.8 23.8 71.4
254 0.1 0.0 0.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:152 Resp: 90898
Ion Ratio Lower Upper
152 100
115 142.2 44.5 133.3#
150 208.8 0.0 353.8





#73

Isopropylbenzene

Concen: 146.832 ug/l

RT: 10.963 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

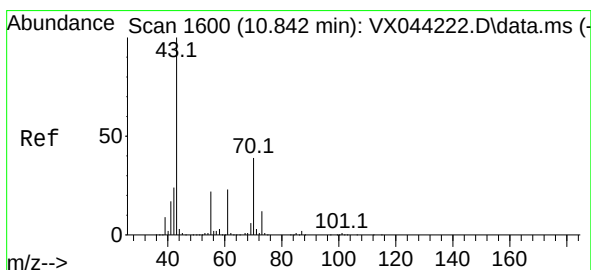
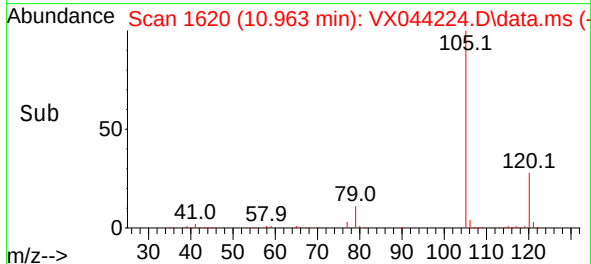
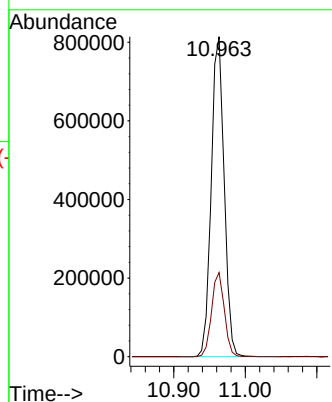
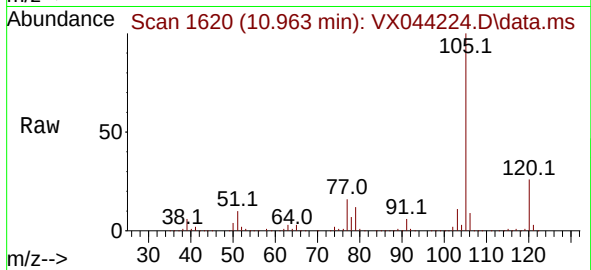
VSTDIC150

Tgt Ion:105 Resp: 1021749

Ion Ratio Lower Upper

105 100

120 25.9 13.1 39.3



#74

N-ethyl acetate

Concen: 166.823 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 536496

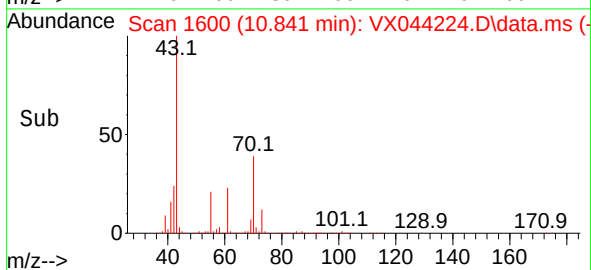
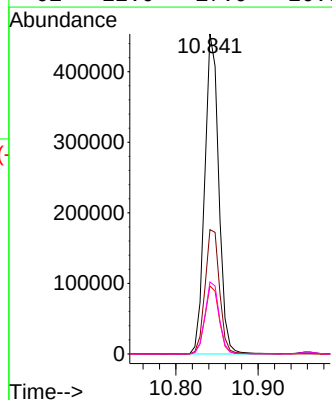
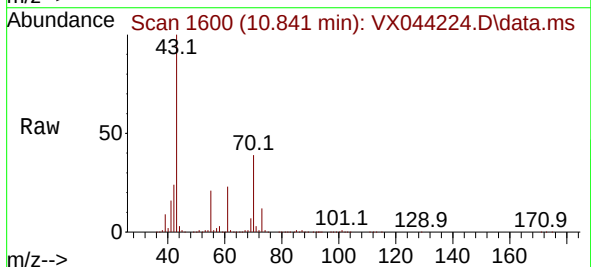
Ion Ratio Lower Upper

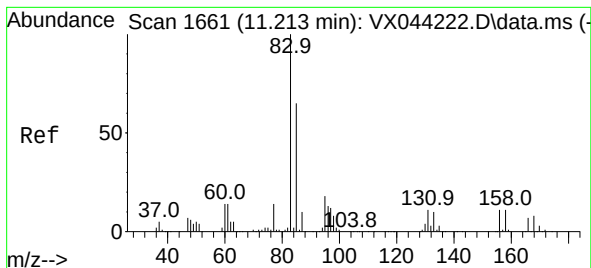
43 100

70 40.3 31.9 47.9

55 21.6 17.9 26.9

61 22.9 17.9 26.9

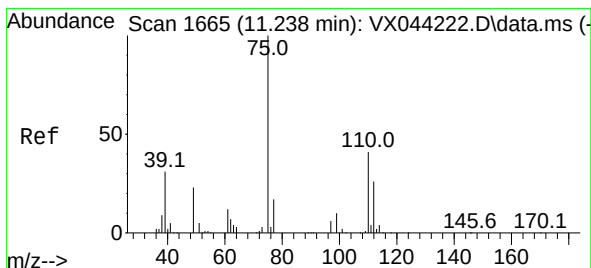
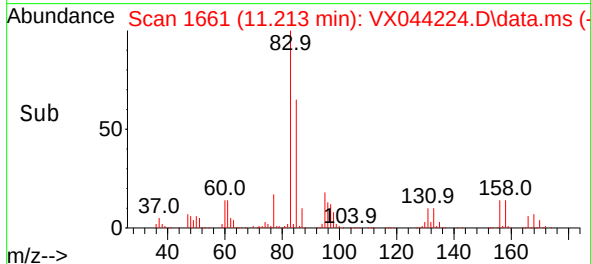
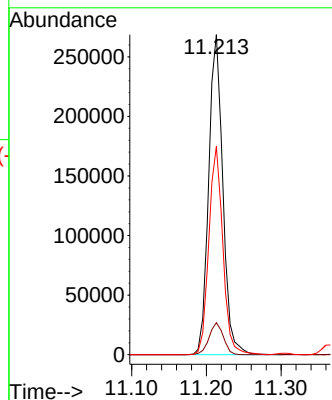
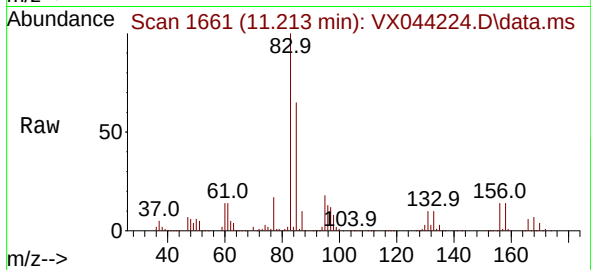




#75
1,1,2,2-Tetrachloroethane
Concen: 145.883 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

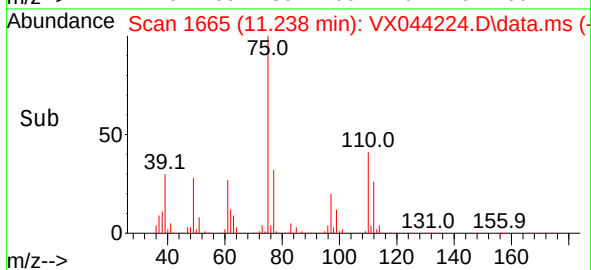
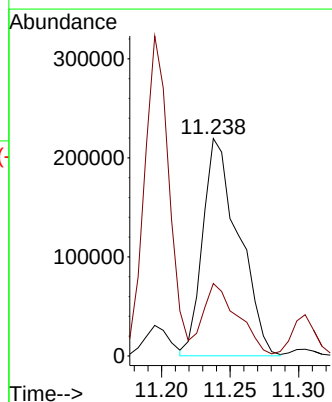
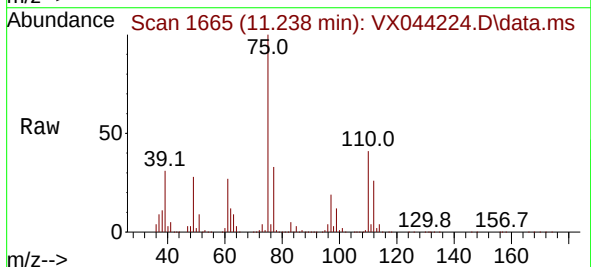
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

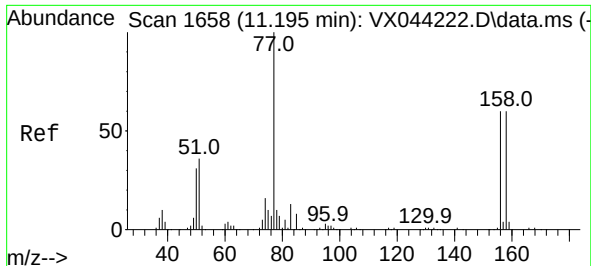
Tgt Ion: 83 Resp: 352591
Ion Ratio Lower Upper
83 100
131 10.1 5.1 15.4
85 64.4 32.5 97.4



#76
1,2,3-Trichloropropane
Concen: 194.277 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 75 Resp: 400724
Ion Ratio Lower Upper
75 100
77 32.4 20.9 62.7

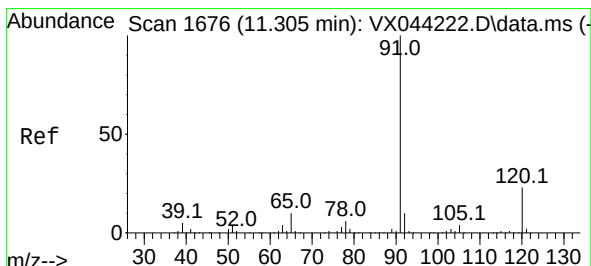
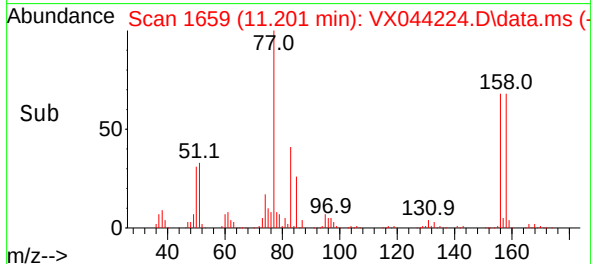
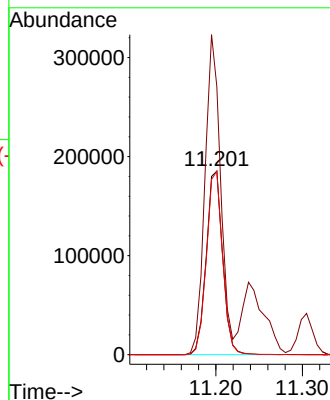
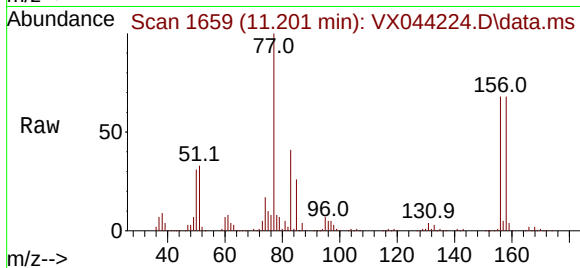




#77
Bromobenzene
Concen: 144.584 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

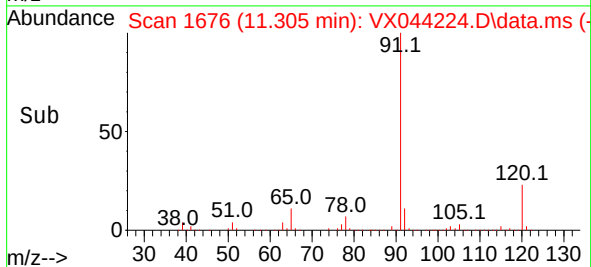
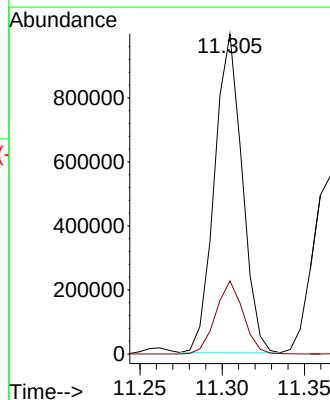
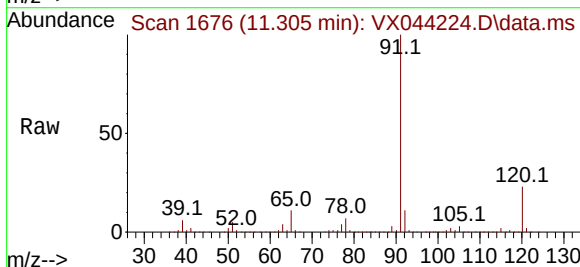
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

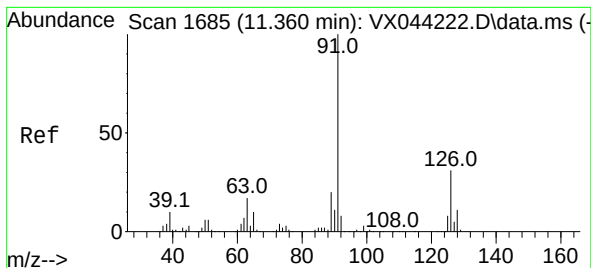
Tgt Ion:156 Resp: 243975
Ion Ratio Lower Upper
156 100
77 165.5 82.6 247.8
158 98.2 48.8 146.4



#78
n-propylbenzene
Concen: 151.637 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 91 Resp: 1166255
Ion Ratio Lower Upper
91 100
120 22.7 11.0 33.0





#79

2-Chlorotoluene

Concen: 140.866 ug/l

RT: 11.366 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

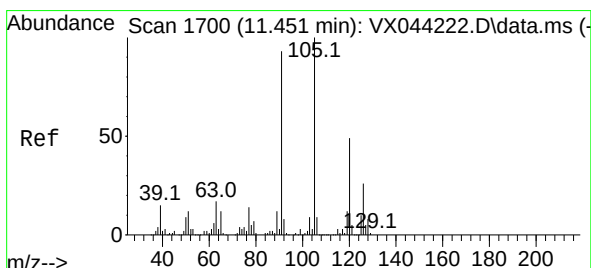
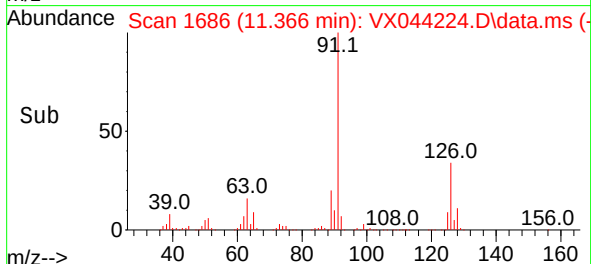
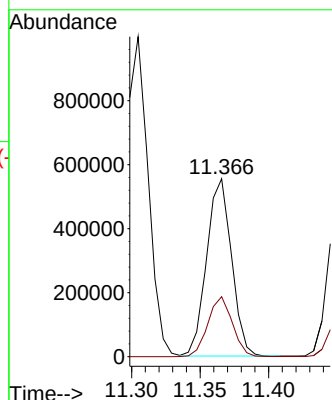
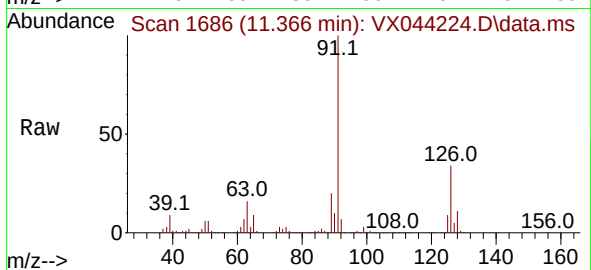
VSTDICC150

Tgt Ion: 91 Resp: 700673

Ion Ratio Lower Upper

91 100

126 33.2 16.4 49.1



#80

1,3,5-Trimethylbenzene

Concen: 147.824 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX044224.D

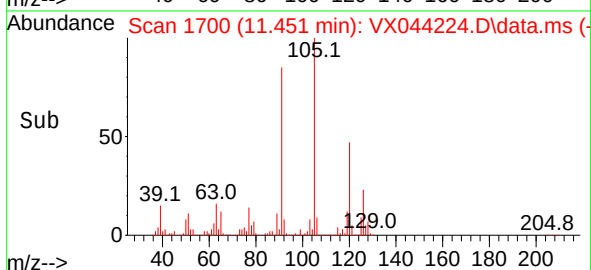
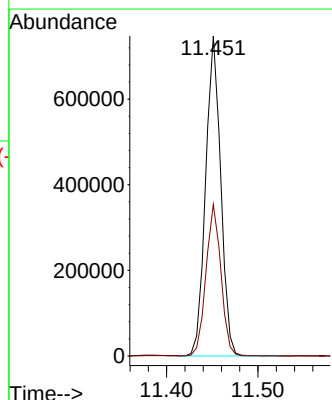
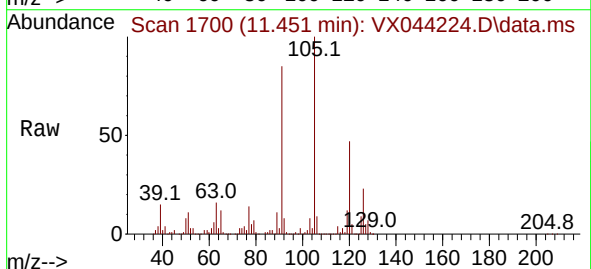
Acq: 11 Dec 2024 13:00

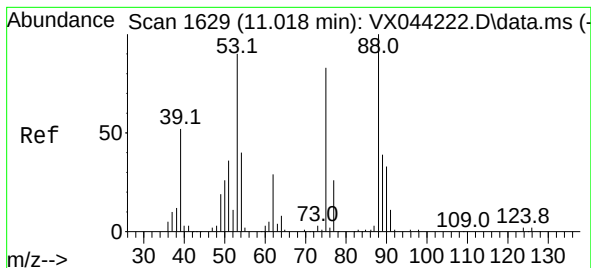
Tgt Ion:105 Resp: 853042

Ion Ratio Lower Upper

105 100

120 46.8 23.8 71.4

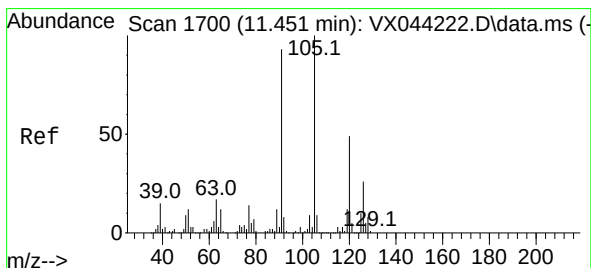
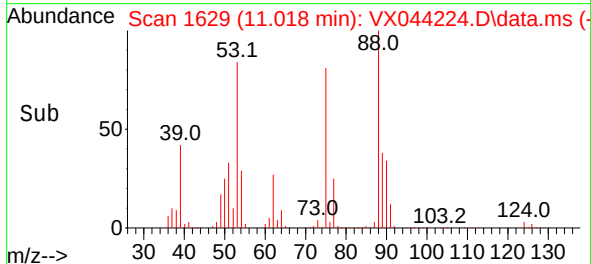
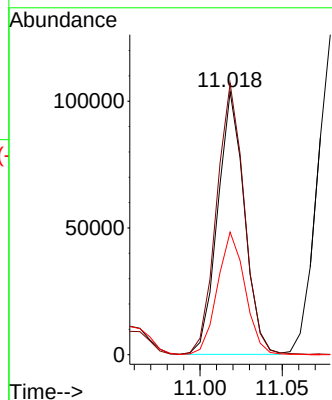
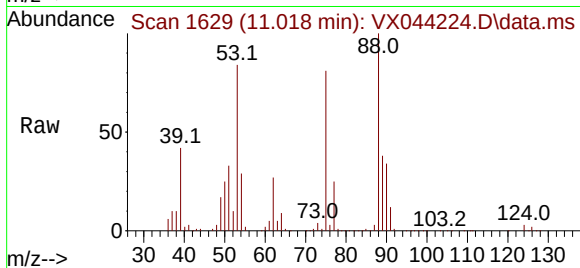




#81
trans-1,4-Dichloro-2-butene
Concen: 152.670 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

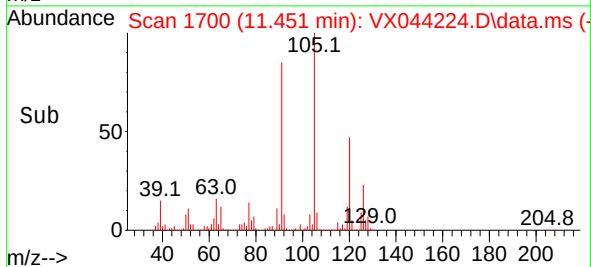
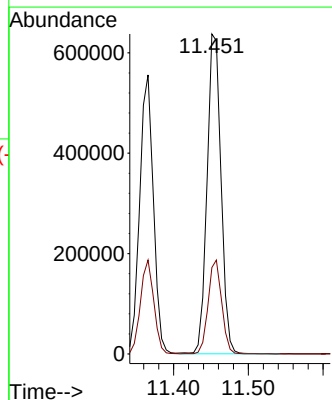
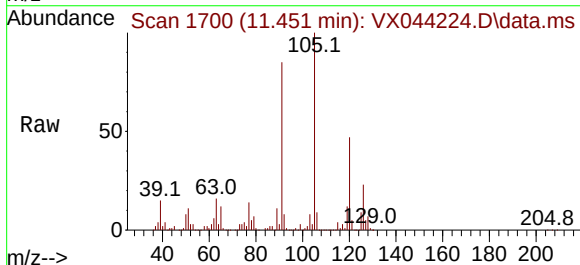
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

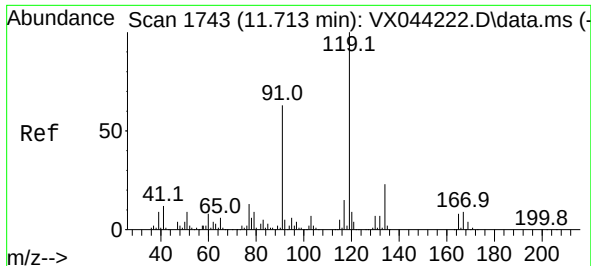
Tgt Ion: 75 Resp: 117263
Ion Ratio Lower Upper
75 100
53 107.3 93.6 140.4
89 48.2 37.3 55.9



#82
4-Chlorotoluene
Concen: 149.831 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 91 Resp: 825278
Ion Ratio Lower Upper
91 100
126 28.5 14.5 43.5

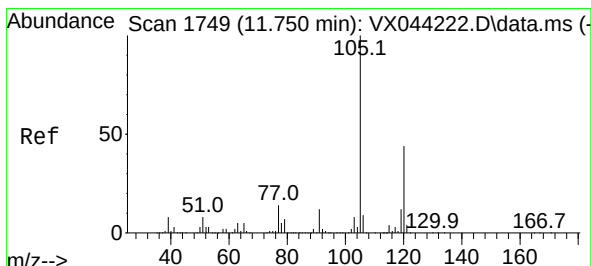
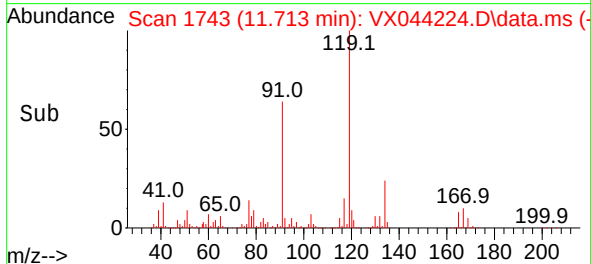
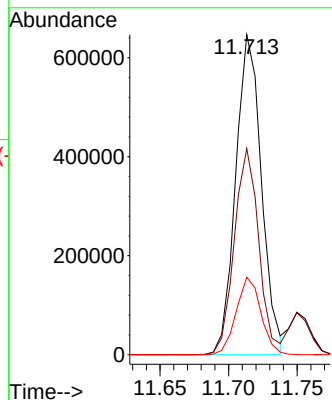
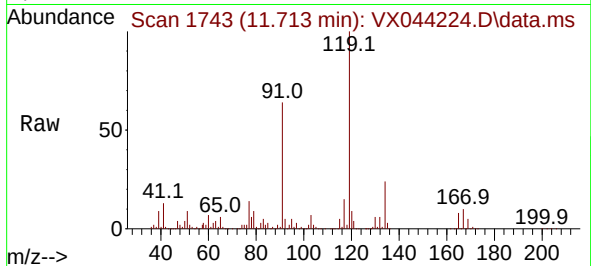




#83
tert-Butylbenzene
Concen: 148.495 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

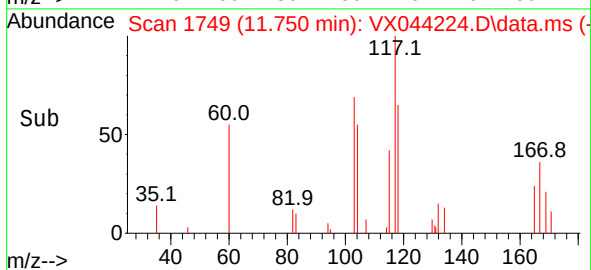
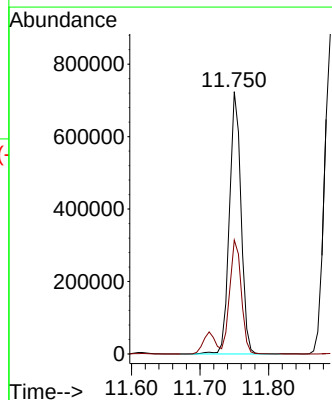
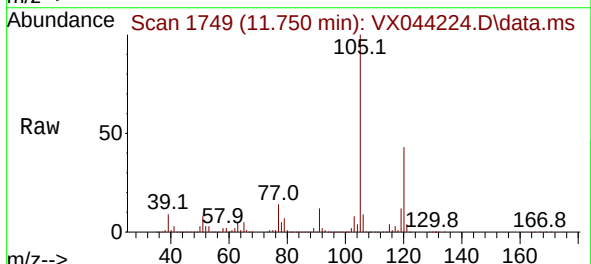
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

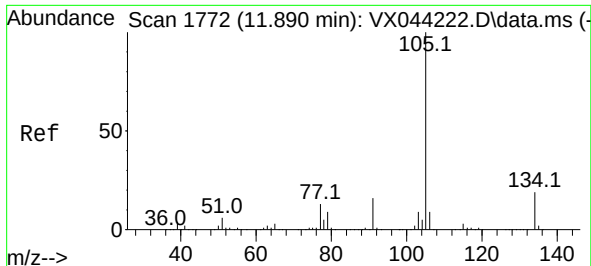
Tgt Ion:119 Resp: 846864
Ion Ratio Lower Upper
119 100
91 61.3 30.9 92.5
134 23.3 11.5 34.4



#84
1,2,4-Trimethylbenzene
Concen: 149.414 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:105 Resp: 846771
Ion Ratio Lower Upper
105 100
120 43.2 21.7 65.1





#85

sec-Butylbenzene

Concen: 149.409 ug/l

RT: 11.890 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

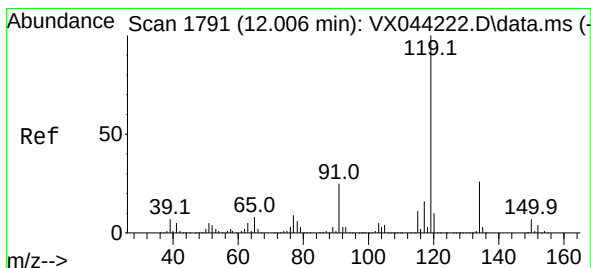
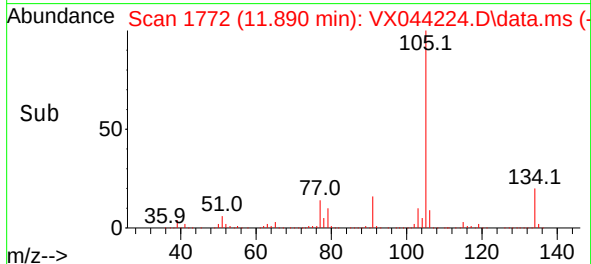
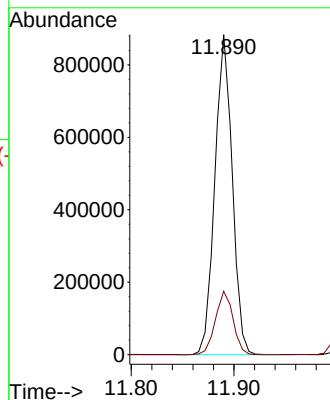
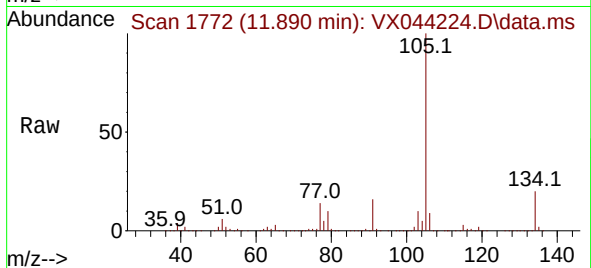
VSTDICC150

Tgt Ion:105 Resp: 1034419

Ion Ratio Lower Upper

105 100

134 20.1 9.8 29.4



#86

p-Isopropyltoluene

Concen: 151.944 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

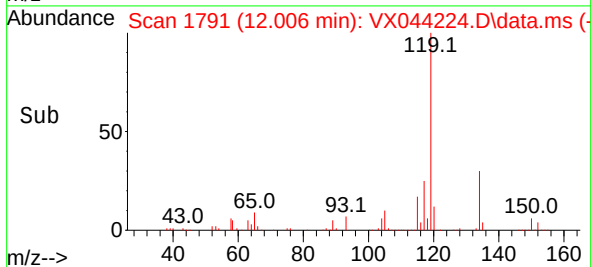
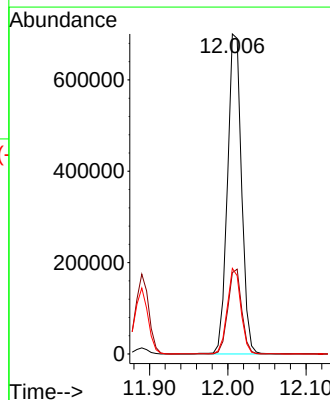
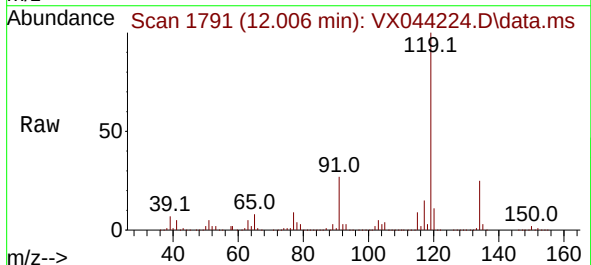
Tgt Ion:119 Resp: 875562

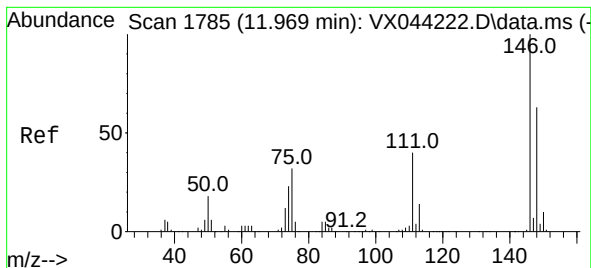
Ion Ratio Lower Upper

119 100

134 26.0 12.8 38.4

91 25.7 13.0 39.0

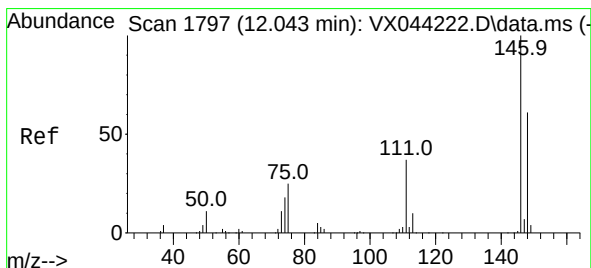
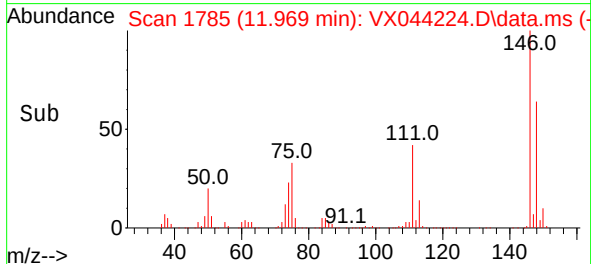
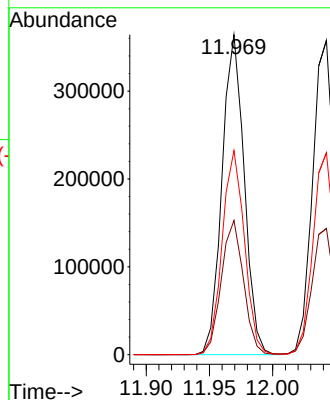
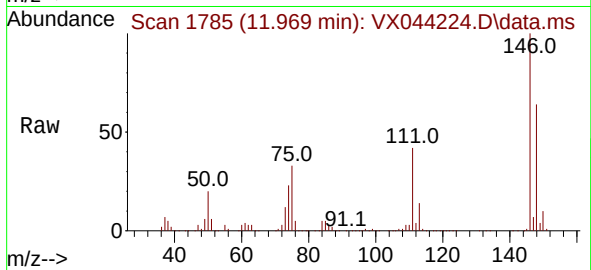




#87
1,3-Dichlorobenzene
Concen: 150.575 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

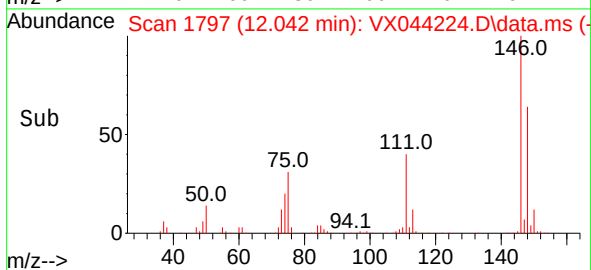
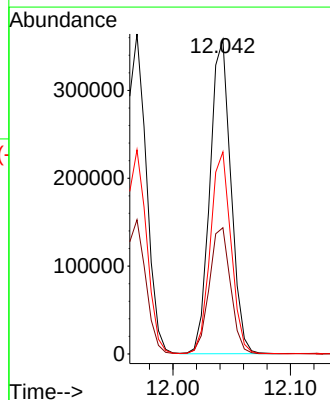
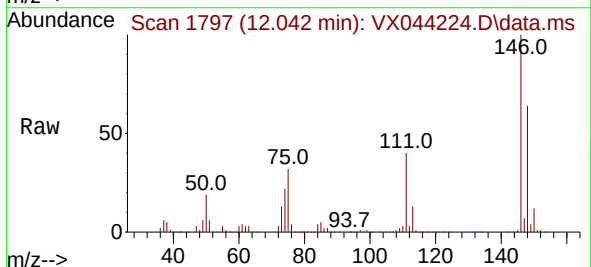
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

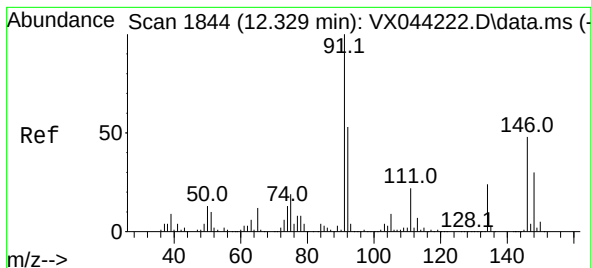
Tgt Ion:146 Resp: 443826
Ion Ratio Lower Upper
146 100
111 42.1 21.4 64.2
148 64.0 31.7 95.1



#88
1,4-Dichlorobenzene
Concen: 146.058 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:146 Resp: 442556
Ion Ratio Lower Upper
146 100
111 40.8 21.0 63.0
148 63.7 32.3 96.8

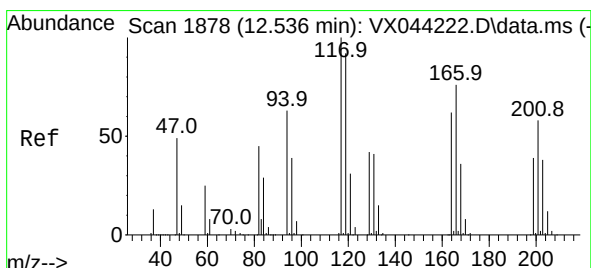
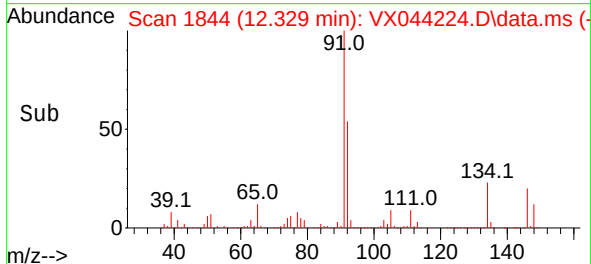
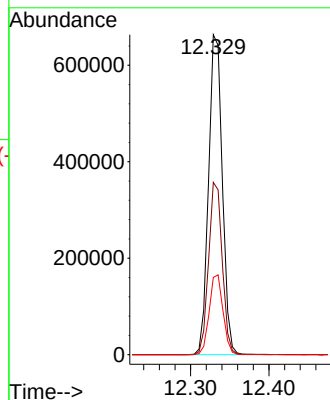
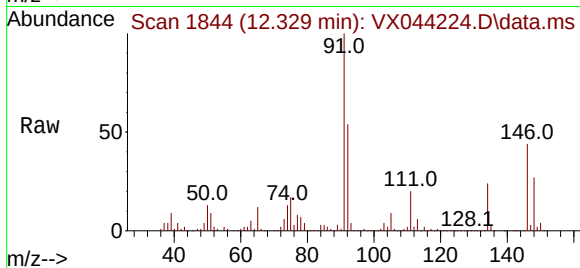




#89
n-Butylbenzene
Concen: 166.836 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

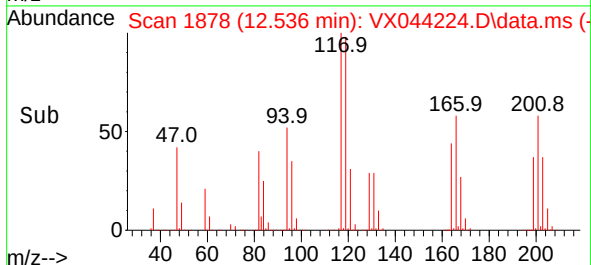
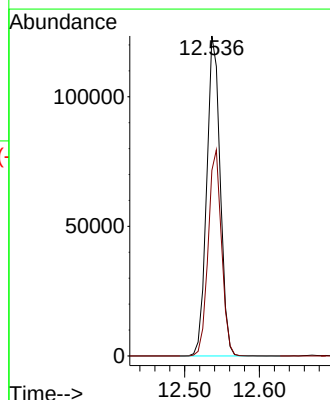
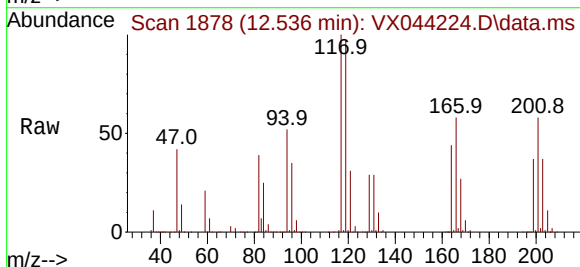
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

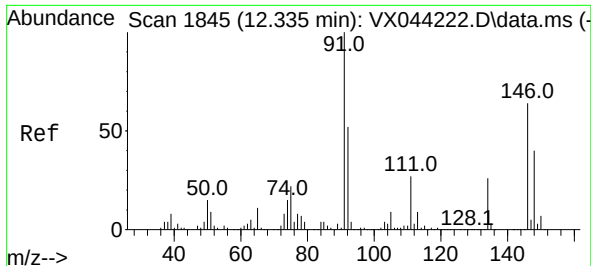
Tgt Ion: 91 Resp: 808399
Ion Ratio Lower Upper
91 100
92 53.3 26.6 79.7
134 25.0 12.6 37.8



#90
Hexachloroethane
Concen: 183.942 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 117 Resp: 154726
Ion Ratio Lower Upper
117 100
201 63.5 31.4 94.2

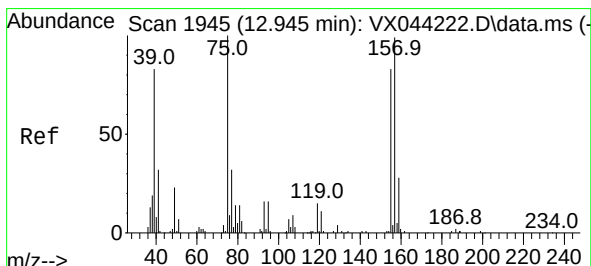
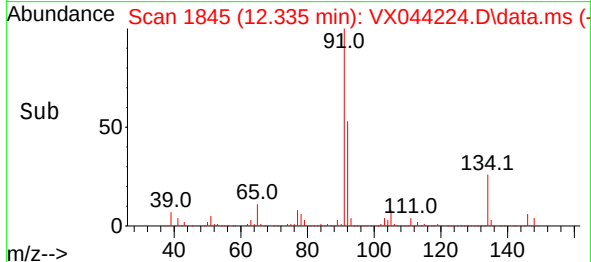
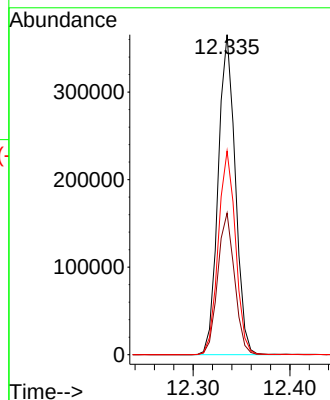
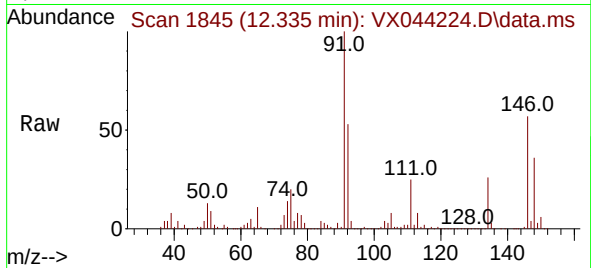




#91
1,2-Dichlorobenzene
Concen: 146.357 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

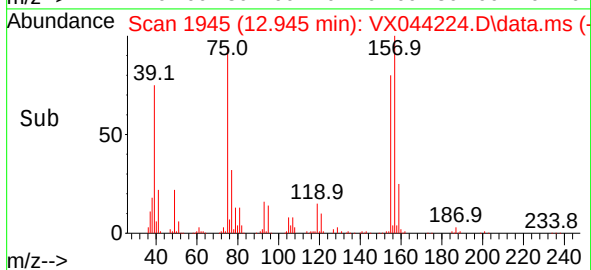
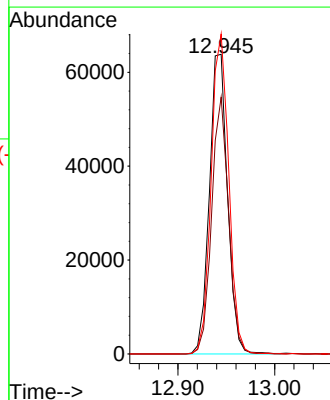
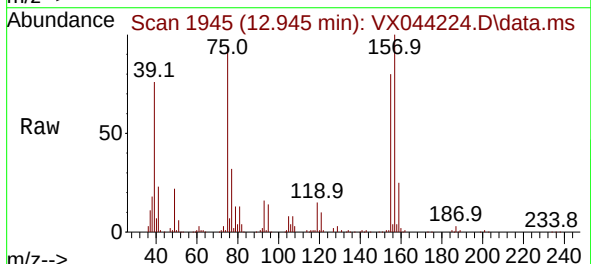
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MSVOA_X
ClientSampleId :
VSTDIC150

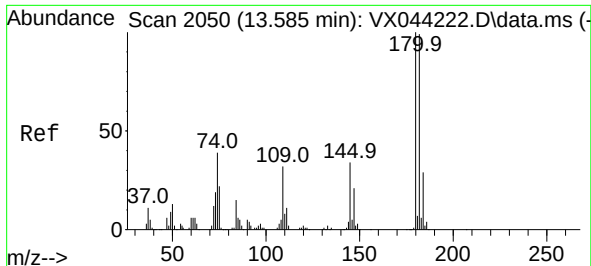
Tgt Ion:146 Resp: 447931
Ion Ratio Lower Upper
146 100
111 43.7 21.4 64.3
148 64.2 31.6 95.0



#92
1,2-Dibromo-3-Chloropropane
Concen: 178.106 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 75 Resp: 83565
Ion Ratio Lower Upper
75 100
155 79.8 38.1 114.3
157 103.3 47.2 141.6





#93

1,2,4-Trichlorobenzene

Concen: 171.952 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX044224.D

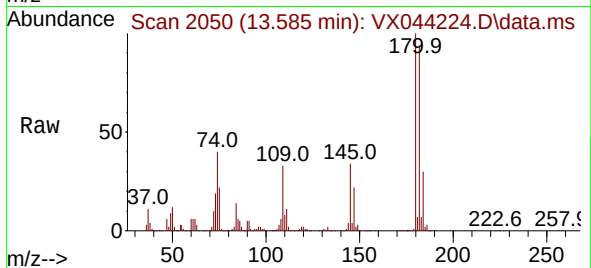
Acq: 11 Dec 2024 13:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150



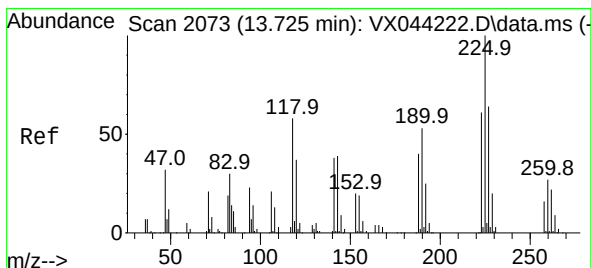
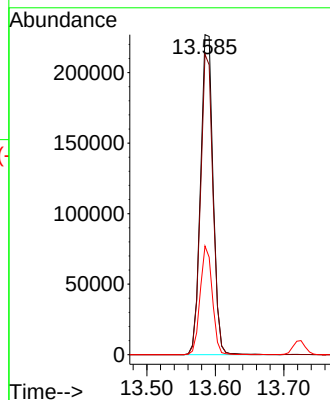
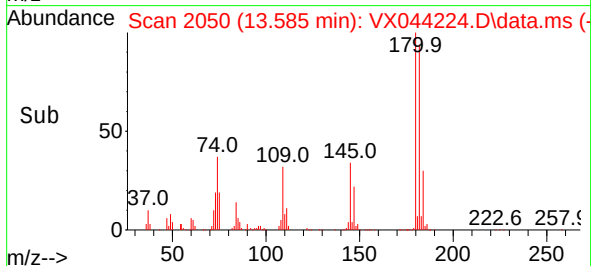
Tgt Ion:180 Resp: 288519

Ion Ratio Lower Upper

180 100

182 93.3 48.0 144.2

145 33.0 16.6 49.7



#94

Hexachlorobutadiene

Concen: 154.036 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. -0.000 min

Lab File: VX044224.D

Acq: 11 Dec 2024 13:00

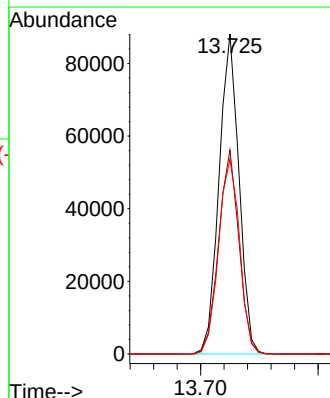
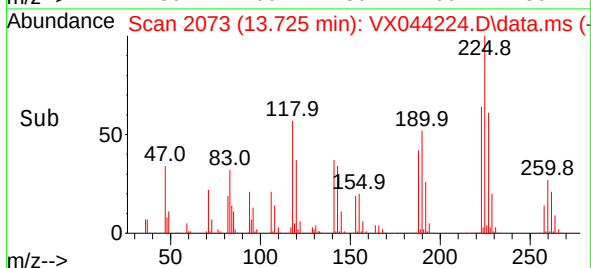
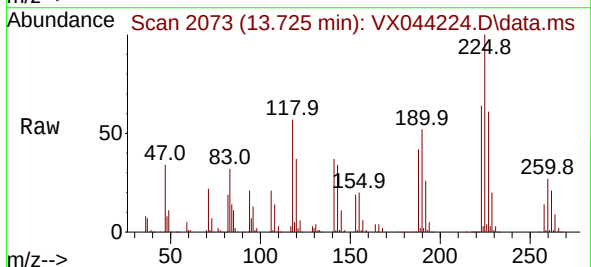
Tgt Ion:225 Resp: 103961

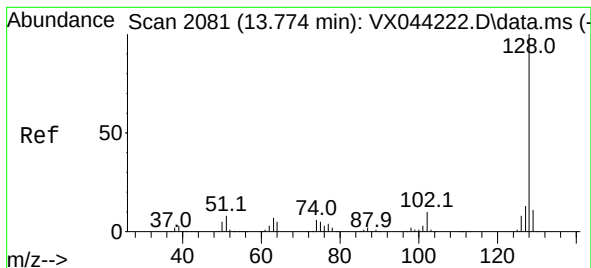
Ion Ratio Lower Upper

225 100

223 64.7 30.8 92.4

227 64.0 32.1 96.3

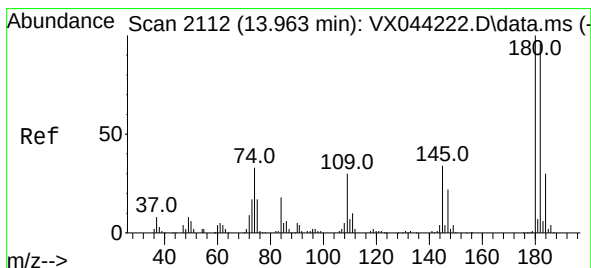
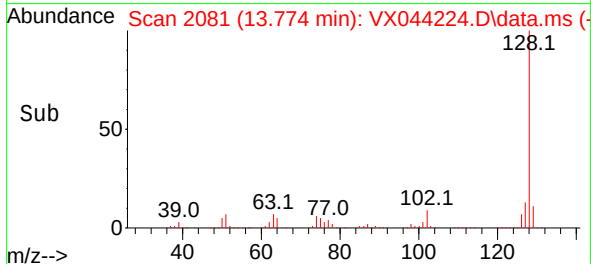
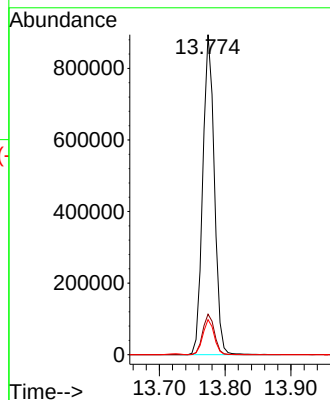
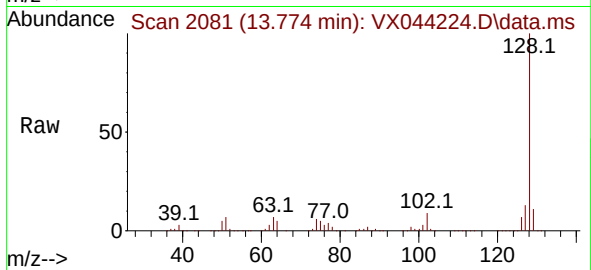




#95
Naphthalene
Concen: 167.187 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

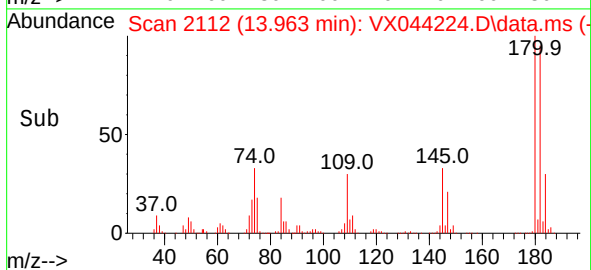
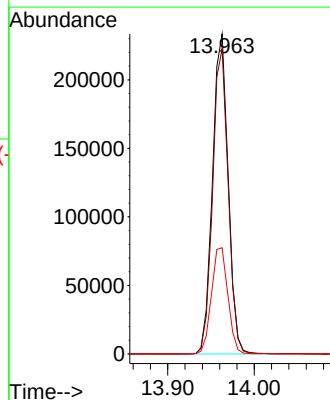
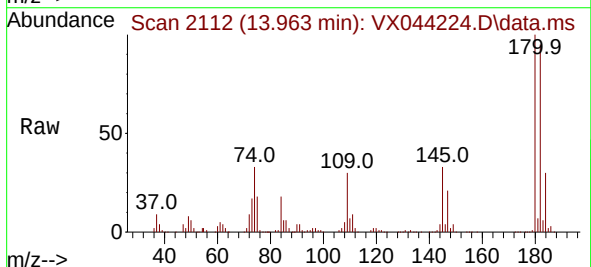
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:128 Resp: 1094997
Ion Ratio Lower Upper
128 100
127 12.8 10.5 15.7
129 10.8 9.0 13.4



#96
1,2,3-Trichlorobenzene
Concen: 165.064 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:180 Resp: 293760
Ion Ratio Lower Upper
180 100
182 94.5 48.0 144.0
145 34.9 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044226.D
 Acq On : 11 Dec 2024 13:51
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX121124

Quant Time: Dec 12 04:32:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:28:14 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	134203	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	237295	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	210572	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	99879	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	107407	45.646	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	91.300%
35) Dibromofluoromethane	5.379	113	77619	47.228	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.460%
50) Toluene-d8	8.647	98	271508	48.968	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.940%
62) 4-Bromofluorobenzene	11.079	95	97061	50.098	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	100.200%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.166	85	104566	50.390	ug/l 98
3) Chloromethane	1.294	50	92633	46.681	ug/l 98
4) Vinyl Chloride	1.374	62	97702	47.260	ug/l 97
5) Bromomethane	1.593	94	67357	45.926	ug/l 99
6) Chloroethane	1.666	64	62821	48.801	ug/l 100
7) Trichlorofluoromethane	1.867	101	203619	50.311	ug/l 99
8) Diethyl Ether	2.136	74	63075	45.658	ug/l 98
9) 1,1,2-Trichlorotrifluo...	2.312	101	82498	50.374	ug/l 99
10) Methyl Iodide	2.441	142	100043	46.349	ug/l 100
11) Tert butyl alcohol	3.001	59	77494	233.680	ug/l 100
12) 1,1-Dichloroethene	2.306	96	74177	49.311	ug/l 99
13) Acrolein	2.233	56	111927	233.162	ug/l 97
14) Allyl chloride	2.654	41	124635	49.744	ug/l 100
15) Acrylonitrile	3.068	53	221037	240.620	ug/l 100
16) Acetone	2.386	43	260267	271.312	ug/l 98
17) Carbon Disulfide	2.501	76	149824	52.397	ug/l 98
18) Methyl Acetate	2.709	43	115569	46.725	ug/l 93
19) Methyl tert-butyl Ether	3.117	73	281413	47.940	ug/l 99
20) Methylene Chloride	2.782	84	83188	46.170	ug/l 97
21) trans-1,2-Dichloroethene	3.081	96	77471	48.459	ug/l 98
22) Diisopropyl ether	3.763	45	264732	46.922	ug/l 98
23) Vinyl Acetate	3.721	43	1185779	258.510	ug/l 99
24) 1,1-Dichloroethane	3.605	63	151134	48.056	ug/l 98
25) 2-Butanone	4.562	43	346052	253.747	ug/l 100
26) 2,2-Dichloropropane	4.465	77	140196	54.872	ug/l 99
27) cis-1,2-Dichloroethene	4.483	96	94838	46.709	ug/l 99
28) Bromochloromethane	4.891	49	69139	44.832	ug/l 99
29) Tetrahydrofuran	5.007	42	208362	238.031	ug/l 98
30) Chloroform	5.092	83	163372	46.235	ug/l 94
31) Cyclohexane	5.458	56	125567	49.443	ug/l 100
32) 1,1,1-Trichloroethane	5.373	97	146348	49.895	ug/l 99
36) 1,1-Dichloropropene	5.684	75	106889	50.314	ug/l 98
37) Ethyl Acetate	4.721	43	137017	52.176	ug/l 99
38) Carbon Tetrachloride	5.672	117	118390	51.763	ug/l 97
39) Methylcyclohexane	7.373	83	139077	54.761	ug/l 99
40) Benzene	6.031	78	316391	49.052	ug/l 99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
 Data File : VX044226.D
 Acq On : 11 Dec 2024 13:51
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX121124

Quant Time: Dec 12 04:32:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:28:14 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	68251	48.945	ug/l	98
42) 1,2-Dichloroethane	6.086	62	132744	49.960	ug/l	100
43) Isopropyl Acetate	6.342	43	211889	51.624	ug/l	100
44) Trichloroethene	7.123	130	80008	49.741	ug/l	98
45) 1,2-Dichloropropane	7.427	63	78321	47.528	ug/l	98
46) Dibromomethane	7.574	93	65491	51.227	ug/l	99
47) Bromodichloromethane	7.818	83	116783	52.893	ug/l	99
48) Methyl methacrylate	7.690	41	101318	50.852	ug/l	98
49) 1,4-Dioxane	7.665	88	26140	791.313	ug/l #	71
51) 4-Methyl-2-Pentanone	8.574	43	673069	255.038	ug/l	99
52) Toluene	8.714	92	199281	49.199	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	120696	50.864	ug/l	95
54) cis-1,3-Dichloropropene	8.366	75	128875	53.607	ug/l	96
55) 1,1,2-Trichloroethane	9.153	97	81362	50.562	ug/l	96
56) Ethyl methacrylate	9.116	69	134357	52.890	ug/l	98
57) 1,3-Dichloropropane	9.305	76	137705	49.165	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	332599	259.586	ug/l	100
59) 2-Hexanone	9.433	43	519476	271.943	ug/l	99
60) Dibromochloromethane	9.518	129	83515	49.073	ug/l	99
61) 1,2-Dibromoethane	9.610	107	85024	51.909	ug/l	97
64) Tetrachloroethene	9.269	164	66669	47.702	ug/l	98
65) Chlorobenzene	10.079	112	217180	48.133	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	74531	51.396	ug/l	100
67) Ethyl Benzene	10.189	91	385605	49.461	ug/l	99
68) m/p-Xylenes	10.299	106	285774	99.896	ug/l	99
69) o-Xylene	10.640	106	144001	49.750	ug/l	98
70) Styrene	10.652	104	239508	51.617	ug/l	98
71) Bromoform	10.799	173	50972	50.269	ug/l #	99
73) Isopropylbenzene	10.963	105	374769	49.014	ug/l	99
74) N-amyl acetate	10.841	43	183763	52.003	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	126615	47.676	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	138398	62.060	ug/l	85
77) Bromobenzene	11.195	156	87767	47.335	ug/l	99
78) n-propylbenzene	11.305	91	429443	50.816	ug/l	99
79) 2-Chlorotoluene	11.366	91	259860	47.546	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	313435	49.431	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	37038	47.861	ug/l	97
82) 4-Chlorotoluene	11.451	91	297641	49.178	ug/l	100
83) tert-Butylbenzene	11.713	119	309463	49.384	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	313433	50.333	ug/l	100
85) sec-Butylbenzene	11.890	105	381109	50.097	ug/l	100
86) p-Isopropyltoluene	12.006	119	320882	50.678	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	159094	49.122	ug/l	98
88) 1,4-Dichlorobenzene	12.042	146	160742	48.280	ug/l	99
89) n-Butylbenzene	12.329	91	283284	53.207	ug/l	99
90) Hexachloroethane	12.536	117	48734	52.727	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	160039	47.589	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	26738	51.864	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	99449	53.940	ug/l	98
94) Hexachlorobutadiene	13.725	225	37651	50.770	ug/l	98
95) Naphthalene	13.774	128	365781	50.827	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	100209	51.244	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

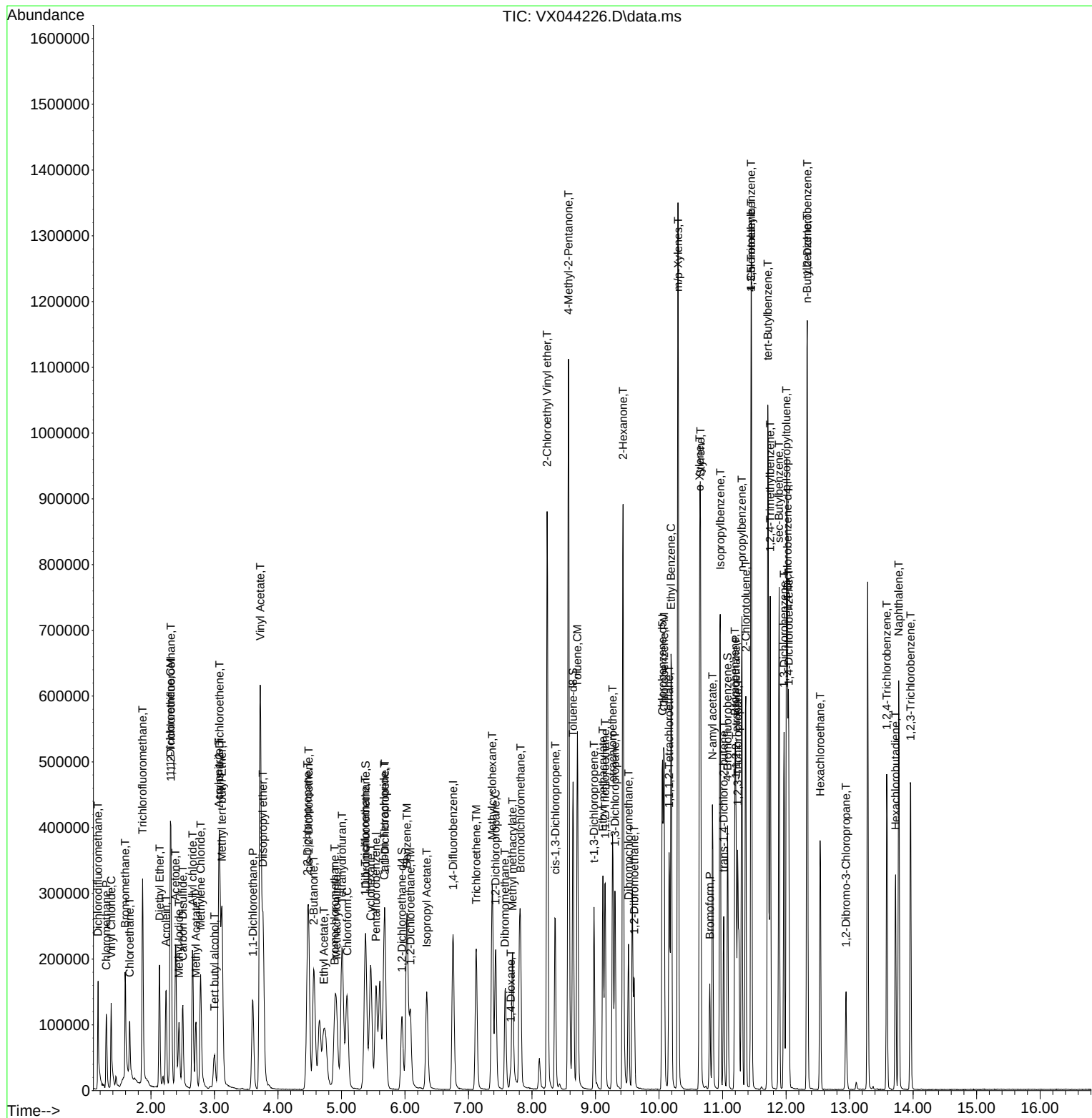
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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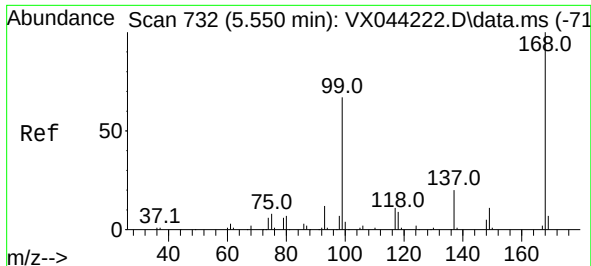
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\  
Data File : VX044226.D  
Acq On    : 11 Dec 2024   13:51  
Operator  : JC/MD  
Sample    : VSTDICV050  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 10   Sample Multiplier: 1
```

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSV0A_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

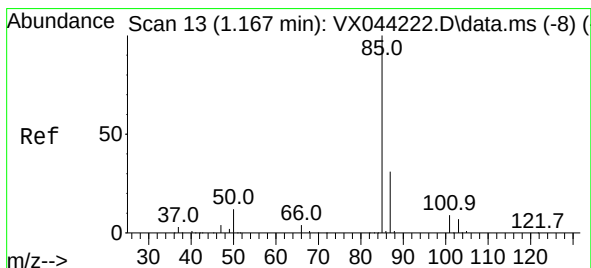
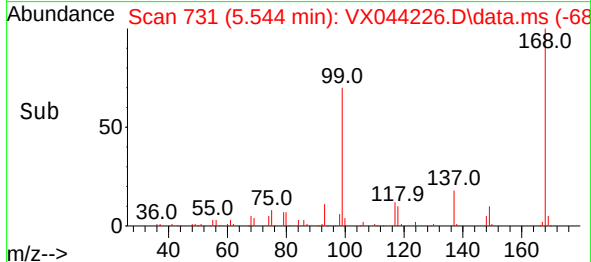
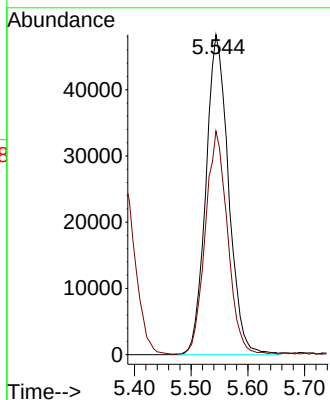
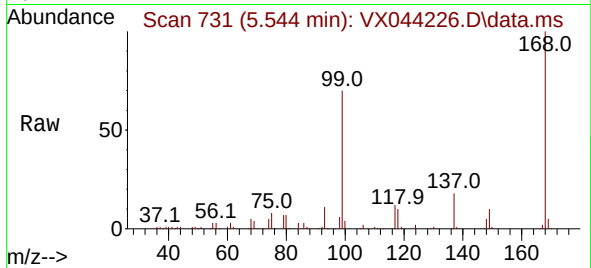




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

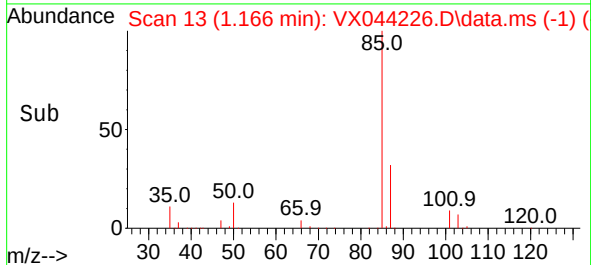
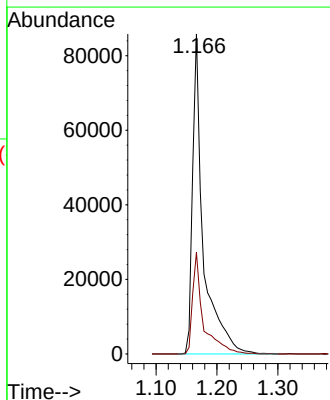
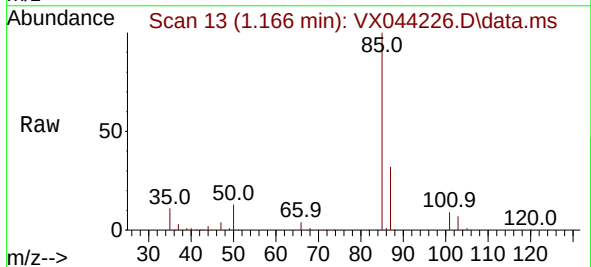
Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

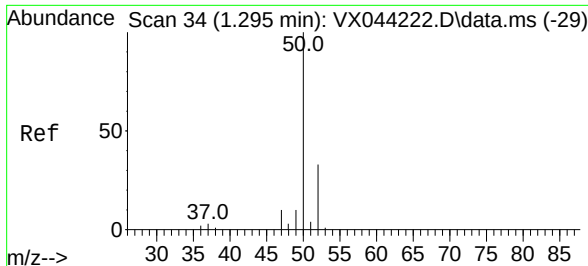
Tgt Ion:168 Resp: 134203
Ion Ratio Lower Upper
168 100
99 69.7 53.4 80.0



#2
Dichlorodifluoromethane
Concen: 50.390 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 85 Resp: 104566
Ion Ratio Lower Upper
85 100
87 31.7 15.4 46.4

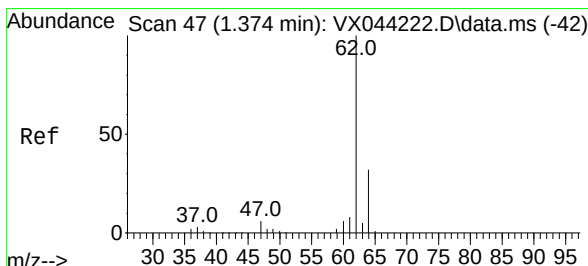
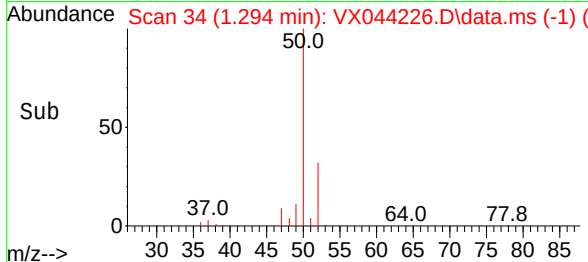
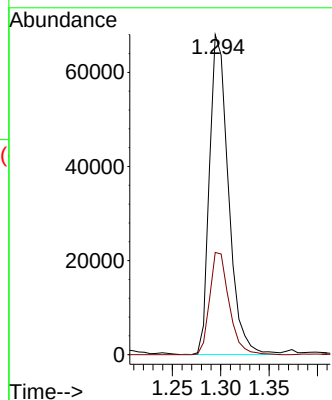
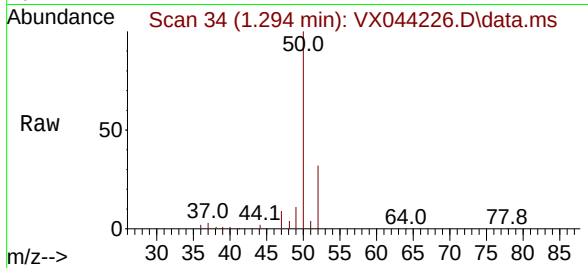




#3
Chloromethane
Concen: 46.681 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

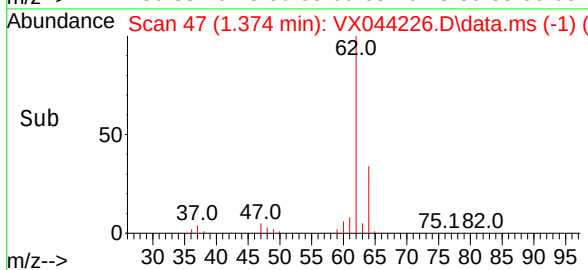
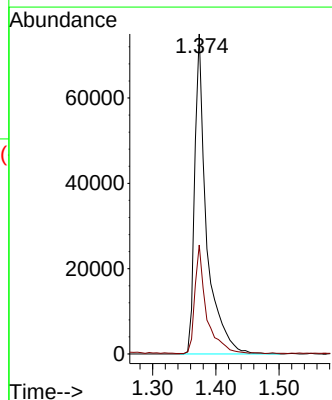
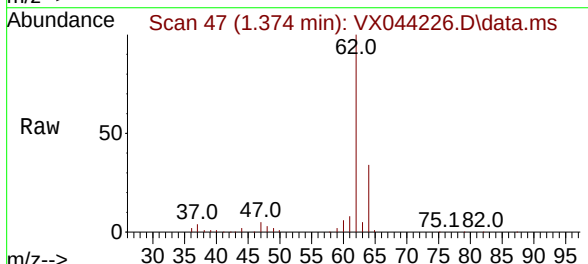
Instrument :
MSVOA_X
ClientSampleId :
ICVX121124

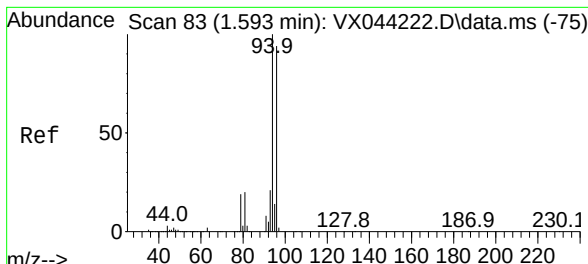
Tgt Ion: 50 Resp: 92633
Ion Ratio Lower Upper
50 100
52 32.0 26.5 39.7



#4
Vinyl Chloride
Concen: 47.260 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 62 Resp: 97702
Ion Ratio Lower Upper
62 100
64 33.9 25.7 38.5



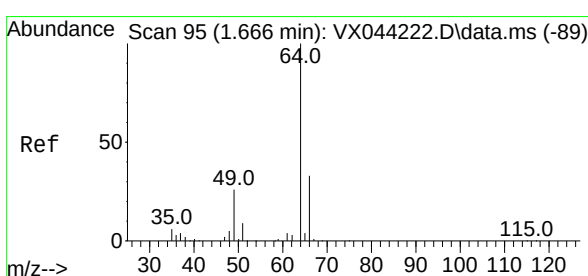
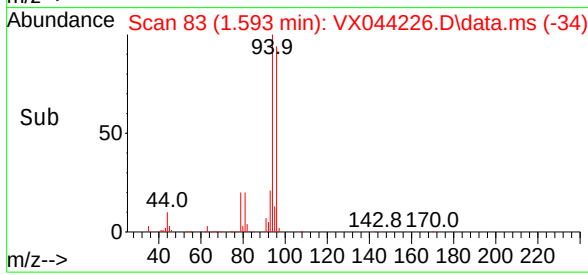
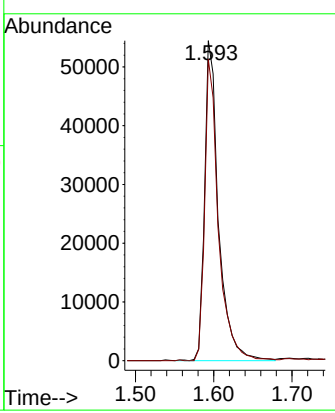
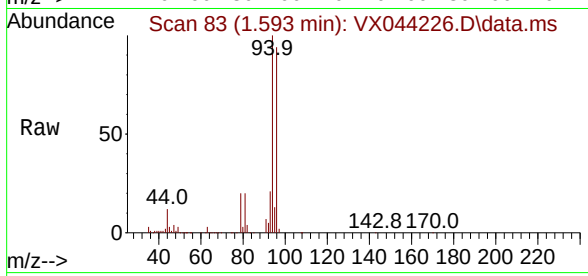


#5
 Bromomethane
 Concen: 45.926 ug/l
 RT: 1.593 min Scan# 83
 Delta R.T. -0.000 min
 Lab File: VX044226.D
 Acq: 11 Dec 2024 13:51

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX121124

Tgt Ion: 94 Resp: 67357

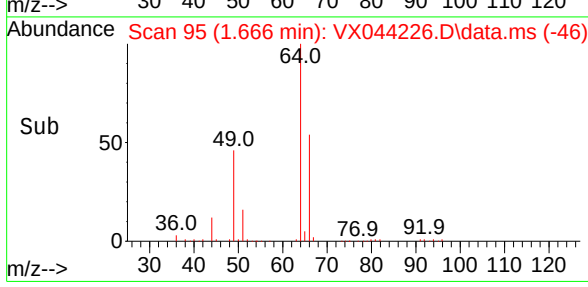
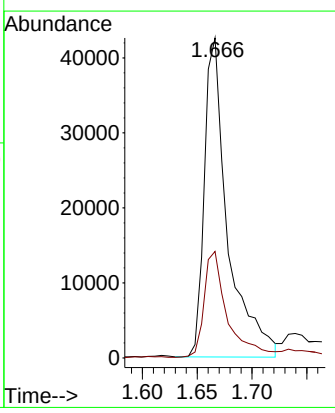
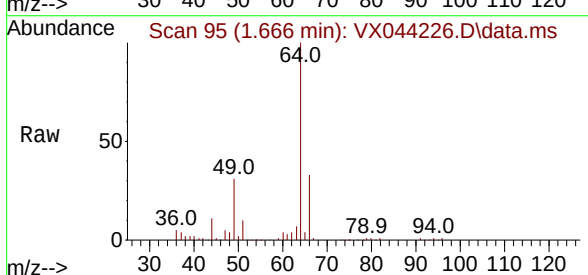
Ion	Ratio	Lower	Upper
94	100		
96	94.2	74.9	112.3

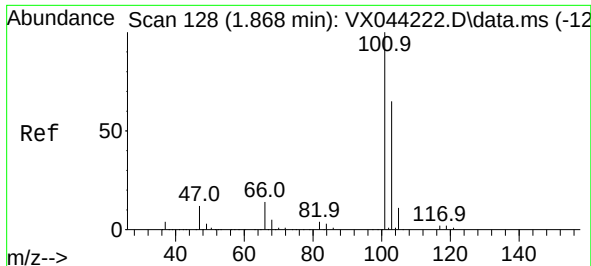


#6
 Chloroethane
 Concen: 48.801 ug/l
 RT: 1.666 min Scan# 95
 Delta R.T. -0.000 min
 Lab File: VX044226.D
 Acq: 11 Dec 2024 13:51

Tgt Ion: 64 Resp: 62821

Ion	Ratio	Lower	Upper
64	100		
66	33.2	26.6	39.8

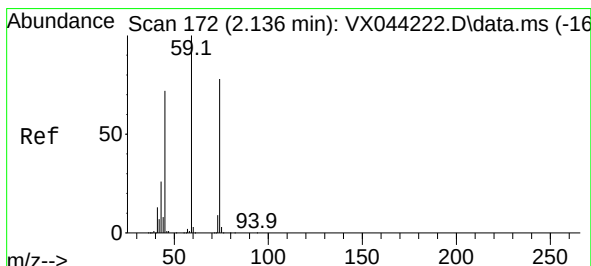
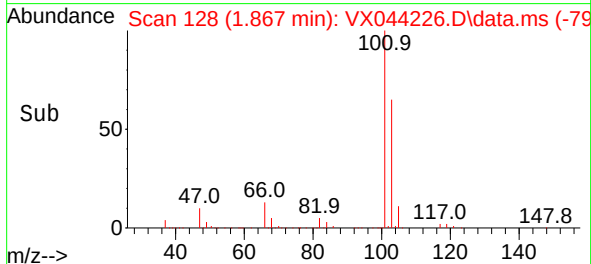
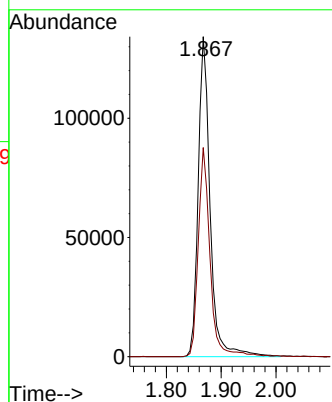
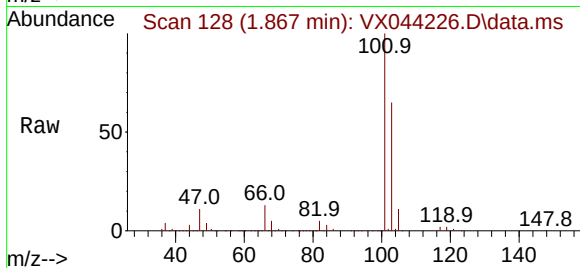




#7
 Trichlorofluoromethane
 Concen: 50.311 ug/l
 RT: 1.867 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX044226.D
 Acq: 11 Dec 2024 13:51

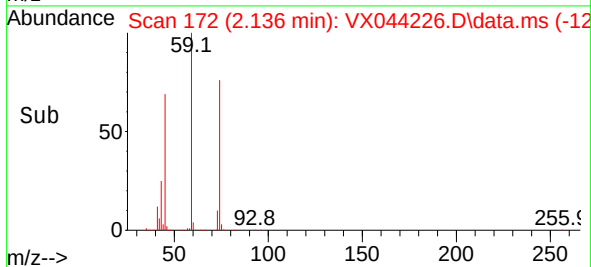
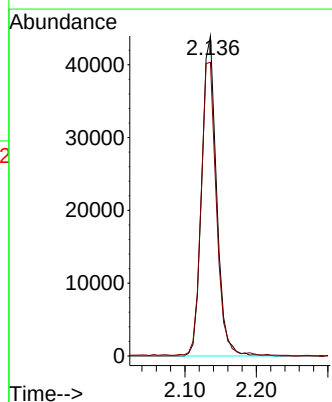
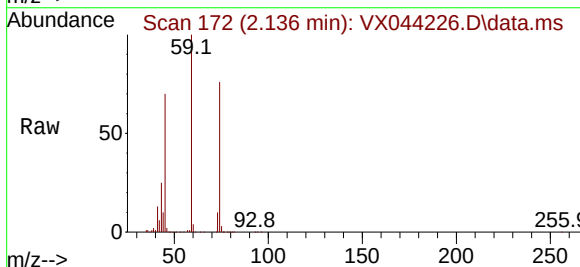
Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX121124

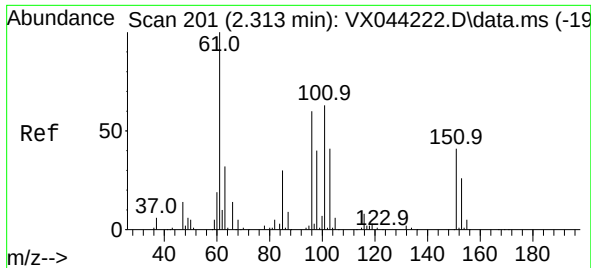
Tgt Ion:101 Resp: 203619
 Ion Ratio Lower Upper
 101 100
 103 65.3 51.8 77.8



#8
 Diethyl Ether
 Concen: 45.658 ug/l
 RT: 2.136 min Scan# 172
 Delta R.T. -0.000 min
 Lab File: VX044226.D
 Acq: 11 Dec 2024 13:51

Tgt Ion: 74 Resp: 63075
 Ion Ratio Lower Upper
 74 100
 45 94.4 48.4 145.0

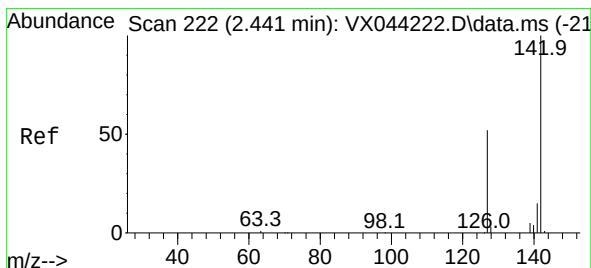
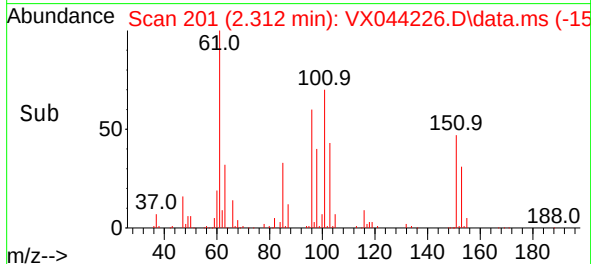
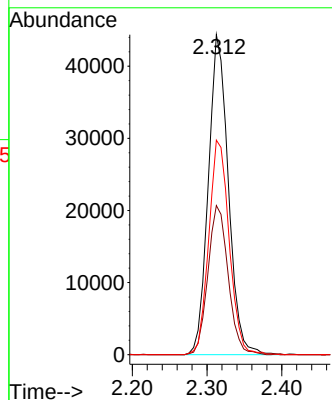
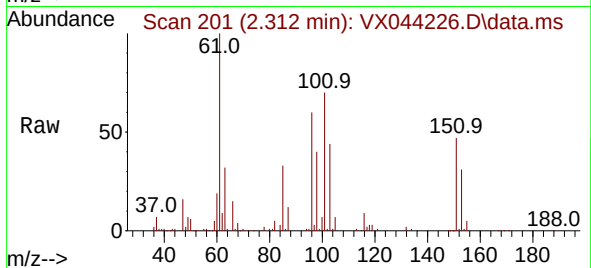




#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.374 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

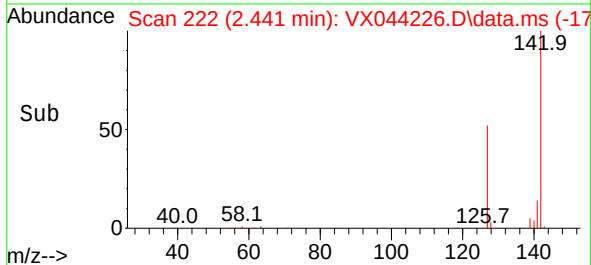
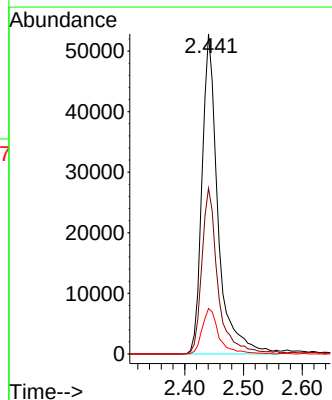
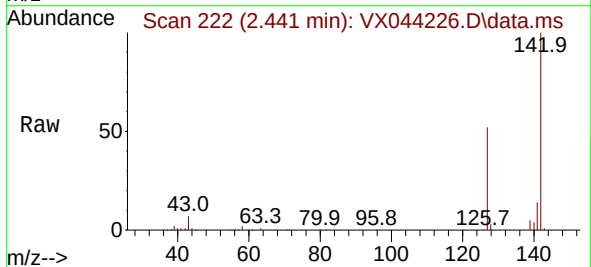
Instrument :
MSVOA_X
ClientSampleId :
ICVX121124

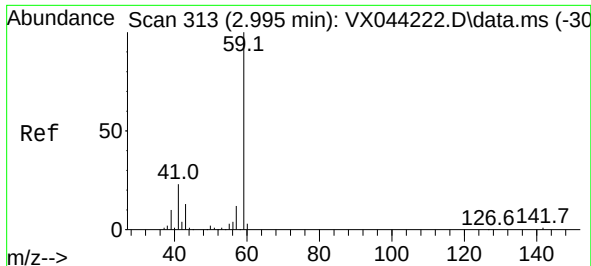
Tgt Ion:101 Resp: 82498
Ion Ratio Lower Upper
101 100
85 47.1 38.5 57.7
151 68.6 55.8 83.6



#10
Methyl Iodide
Concen: 46.349 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:142 Resp: 100043
Ion Ratio Lower Upper
142 100
127 52.3 41.8 62.8
141 14.8 11.5 17.3

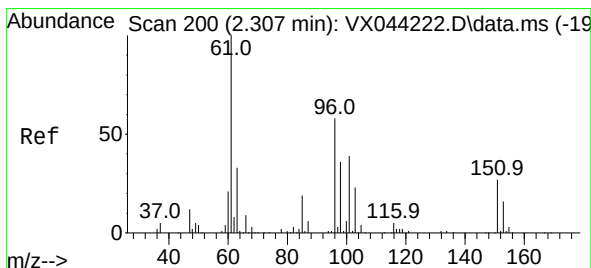
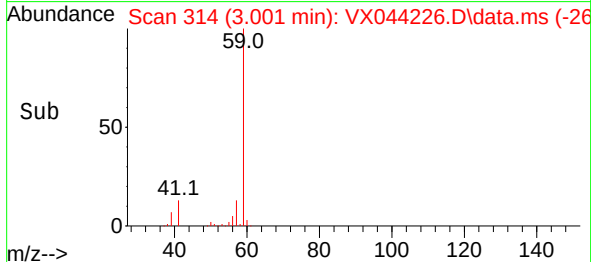
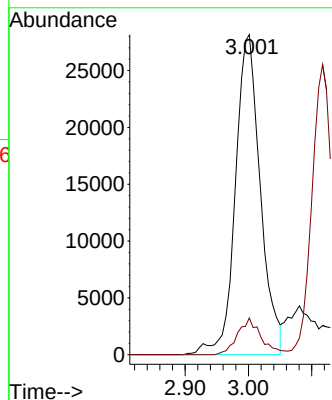
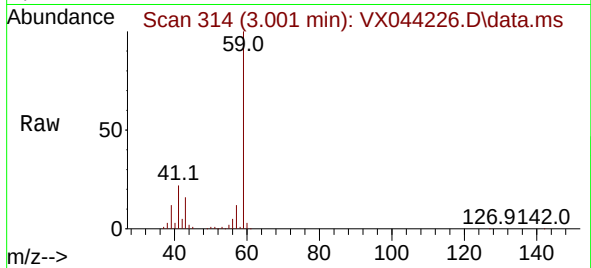




#11
Tert butyl alcohol
Concen: 233.680 ug/l
RT: 3.001 min Scan# 313
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

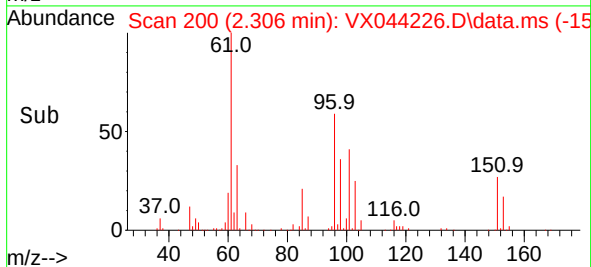
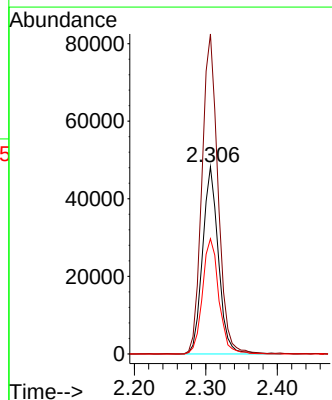
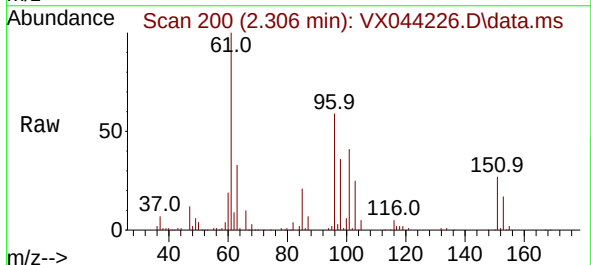
Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

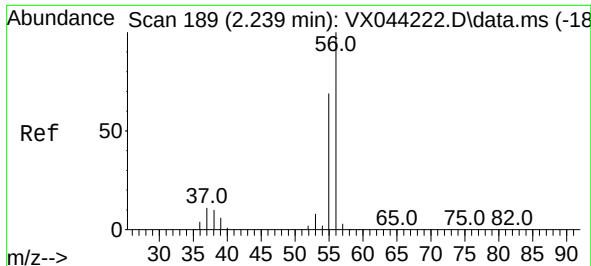
Tgt Ion: 59 Resp: 77494
Ion Ratio Lower Upper
59 100
57 10.9 8.8 13.2



#12
1,1-Dichloroethene
Concen: 49.311 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 96 Resp: 74177
Ion Ratio Lower Upper
96 100
61 170.9 138.0 207.0
98 61.6 50.0 75.0

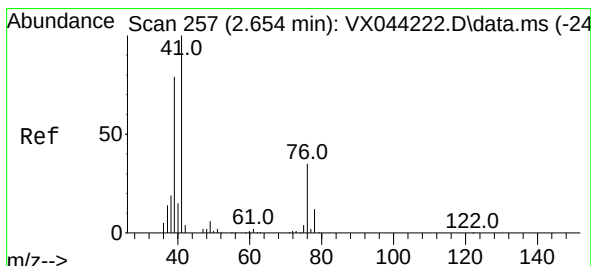
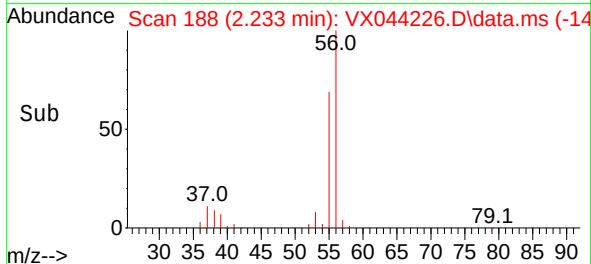
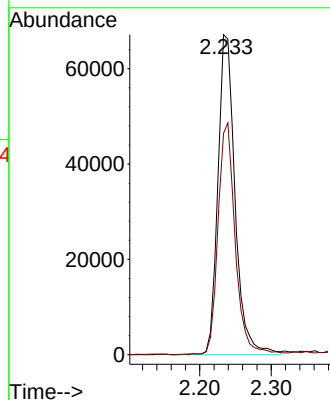
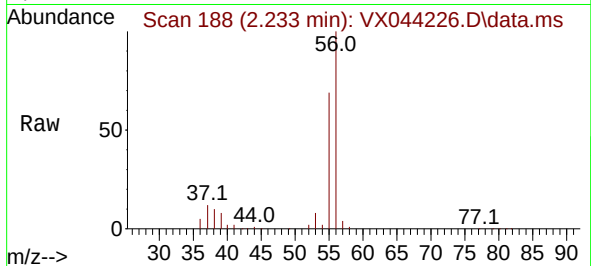




#13
Acrolein
Concen: 233.162 ug/l
RT: 2.233 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

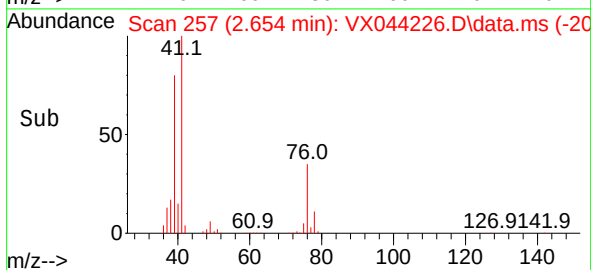
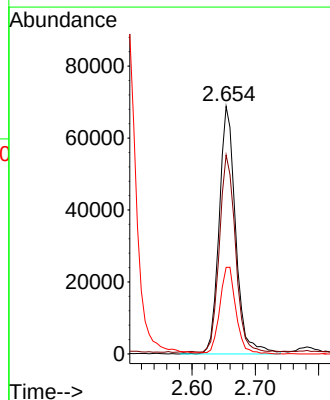
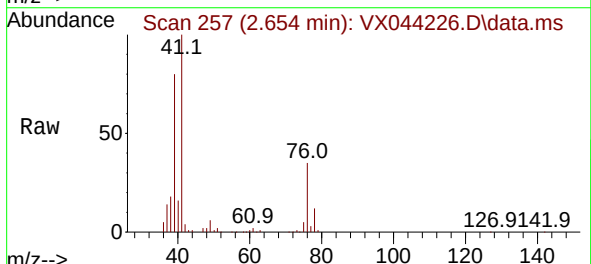
Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

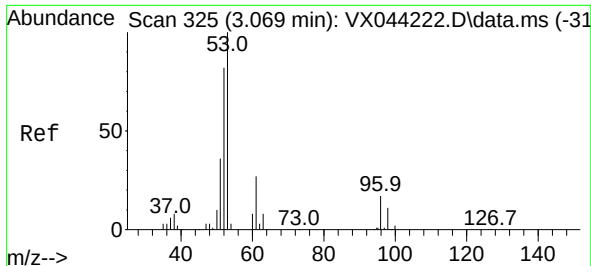
Tgt Ion: 56 Resp: 111927
Ion Ratio Lower Upper
56 100
55 72.8 56.6 84.8



#14
Allyl chloride
Concen: 49.744 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 41 Resp: 124635
Ion Ratio Lower Upper
41 100
39 77.3 61.9 92.9
76 34.4 27.4 41.2





#15

Acrylonitrile

Concen: 240.620 ug/l

RT: 3.068 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

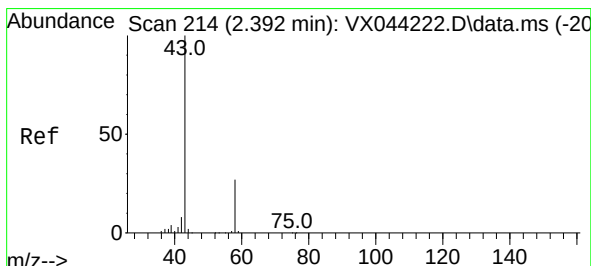
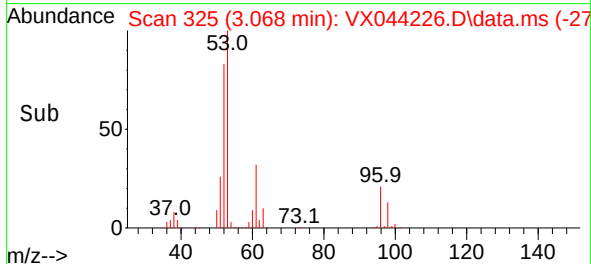
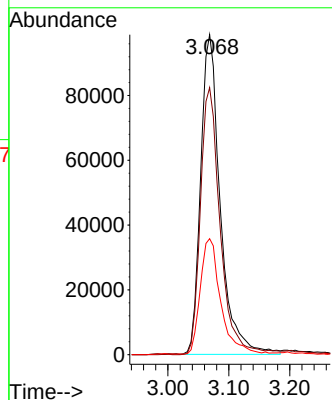
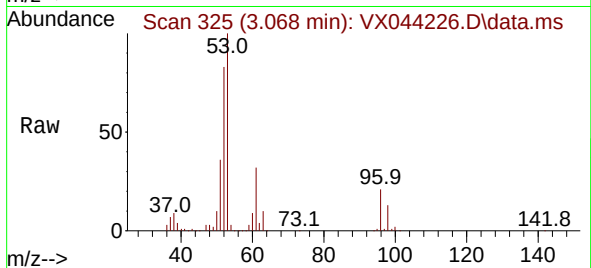
Tgt Ion: 53 Resp: 221037

Ion Ratio Lower Upper

53 100

52 84.3 67.4 101.0

51 37.6 30.3 45.5



#16

Acetone

Concen: 271.312 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.006 min

Lab File: VX044226.D

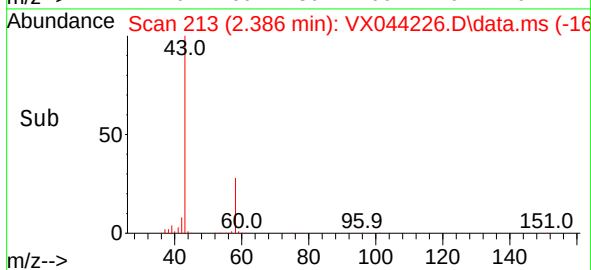
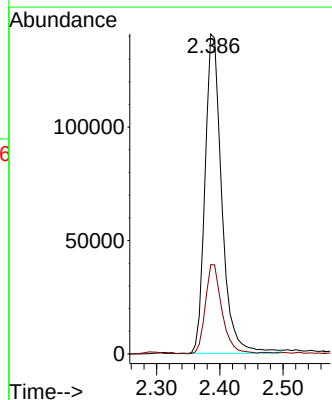
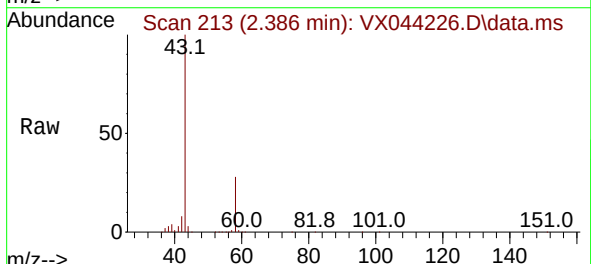
Acq: 11 Dec 2024 13:51

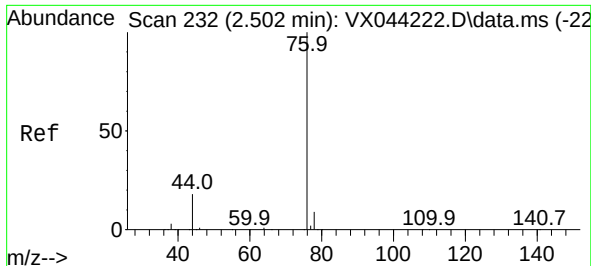
Tgt Ion: 43 Resp: 260267

Ion Ratio Lower Upper

43 100

58 27.8 21.6 32.4

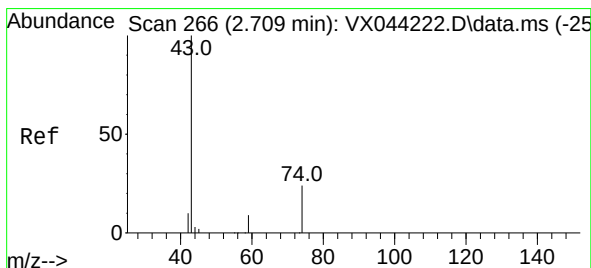
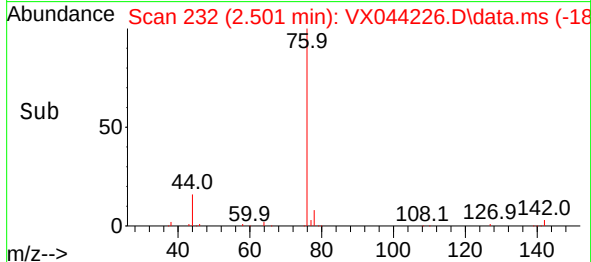
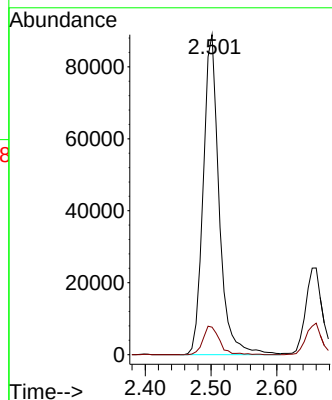
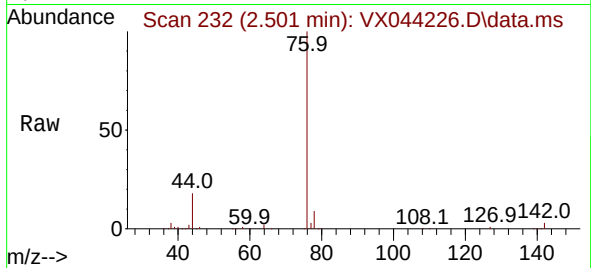




#17
Carbon Disulfide
Concen: 52.397 ug/l
RT: 2.501 min Scan# 241
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

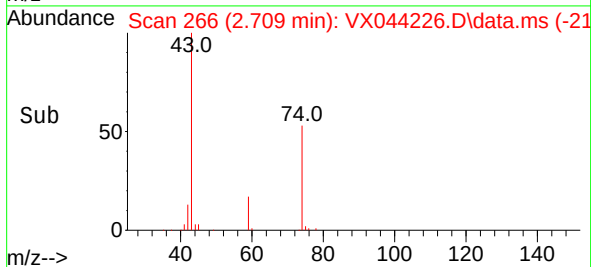
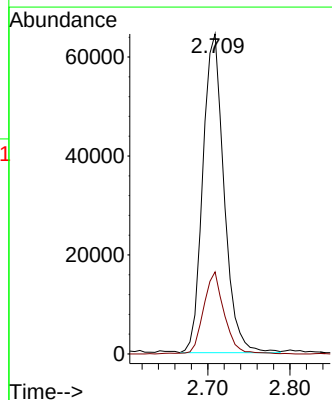
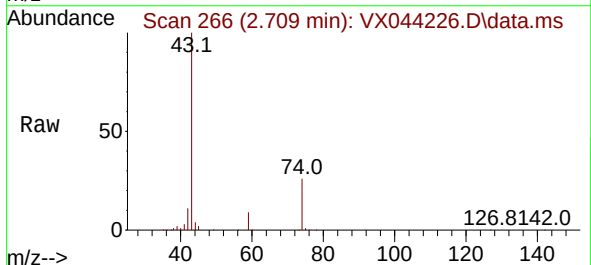
Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

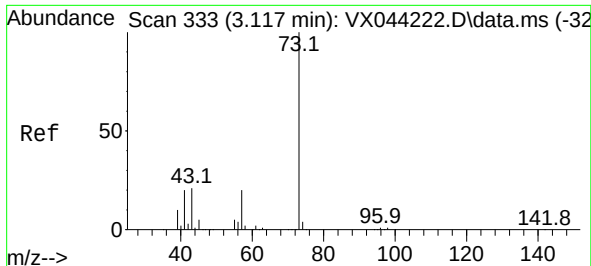
Tgt Ion: 76 Resp: 149824
Ion Ratio Lower Upper
76 100
78 8.6 7.4 11.0



#18
Methyl Acetate
Concen: 46.725 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 115569
Ion Ratio Lower Upper
43 100
74 25.3 17.7 26.5





#19

Methyl tert-butyl Ether

Concen: 47.940 ug/l

RT: 3.117 min Scan# 333

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

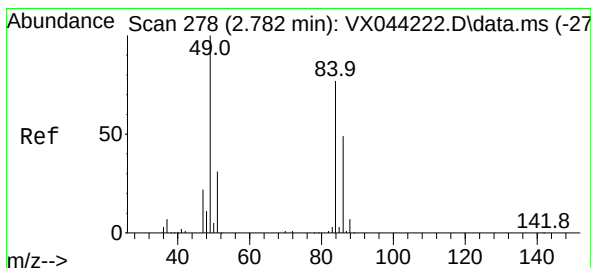
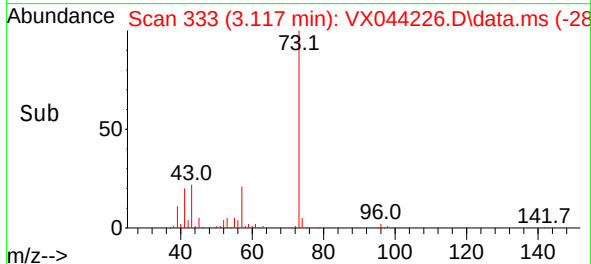
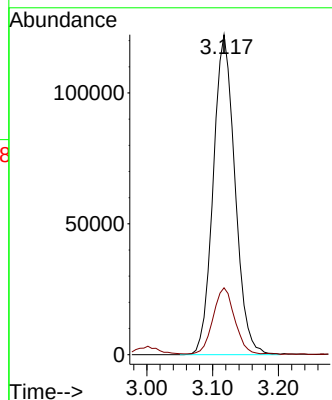
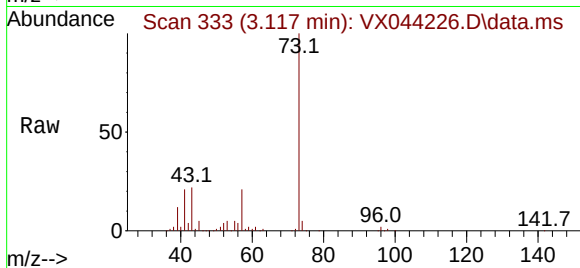
ICVVX121124

Tgt Ion: 73 Resp: 281413

Ion Ratio Lower Upper

73 100

57 20.8 16.2 24.4



#20

Methylene Chloride

Concen: 46.170 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Tgt Ion: 84 Resp: 83188

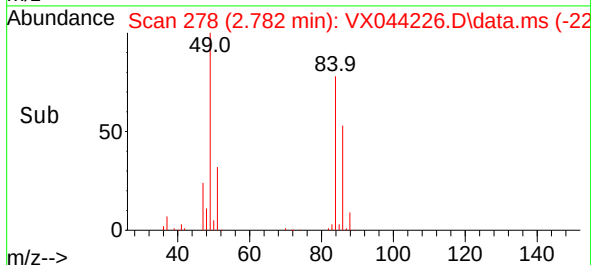
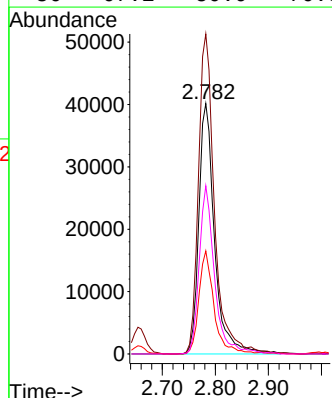
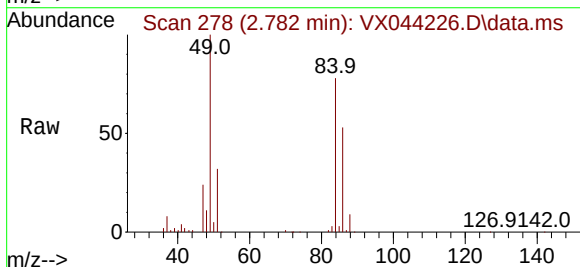
Ion Ratio Lower Upper

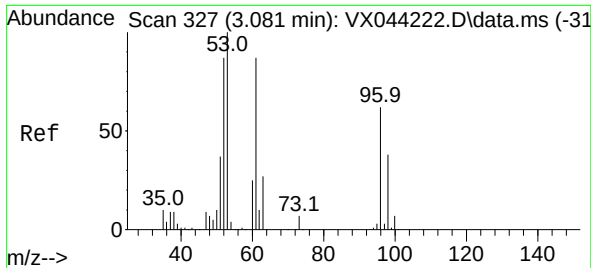
84 100

49 127.6 104.2 156.4

51 41.1 32.2 48.4

86 67.2 50.9 76.3

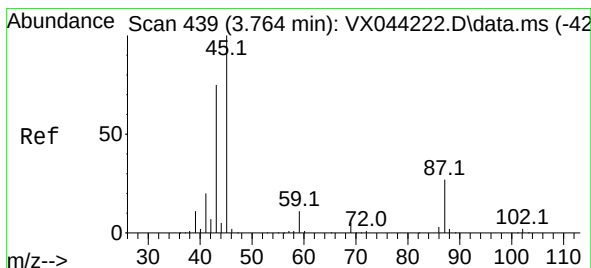
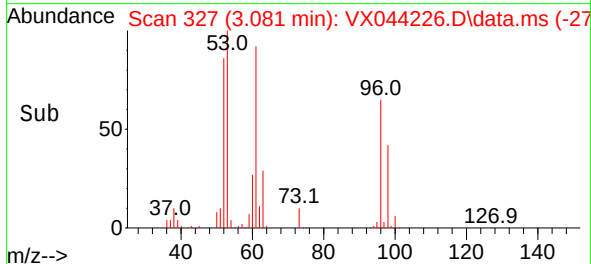
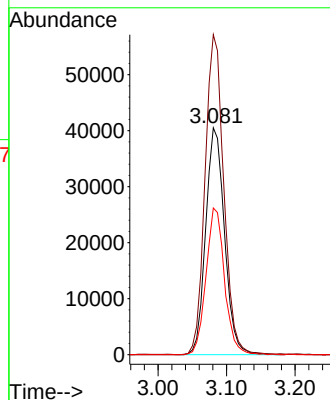
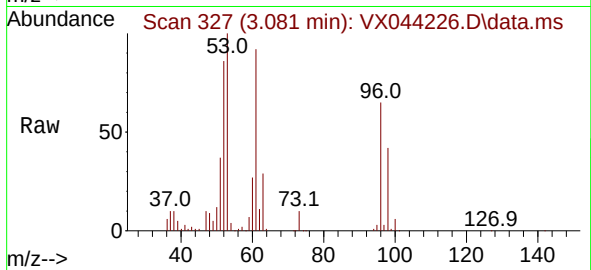




#21
trans-1,2-Dichloroethene
Concen: 48.459 ug/l
RT: 3.081 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

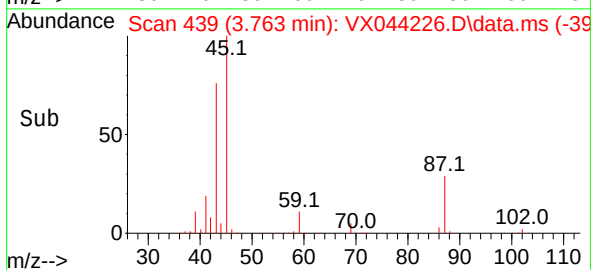
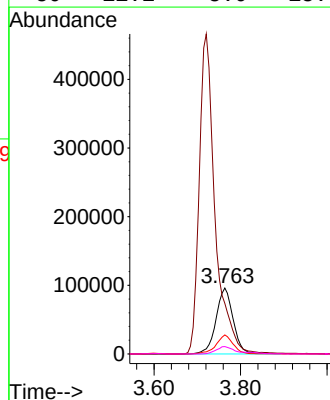
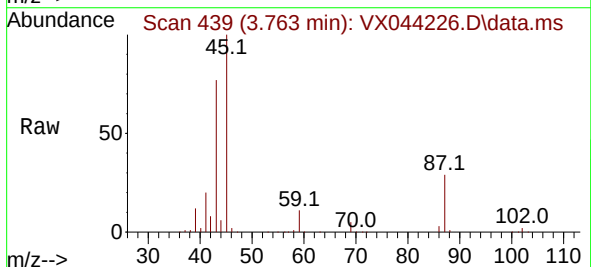
Instrument :
MSVOA_X
ClientSampleId :
ICVX121124

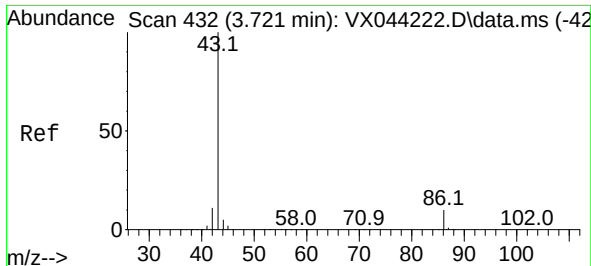
Tgt Ion: 96 Resp: 77471
Ion Ratio Lower Upper
96 100
61 141.0 112.0 168.0
98 64.7 48.8 73.2



#22
Diisopropyl ether
Concen: 46.922 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 45 Resp: 264732
Ion Ratio Lower Upper
45 100
43 76.6 60.2 90.2
87 28.8 21.2 31.8
59 11.1 8.9 13.3

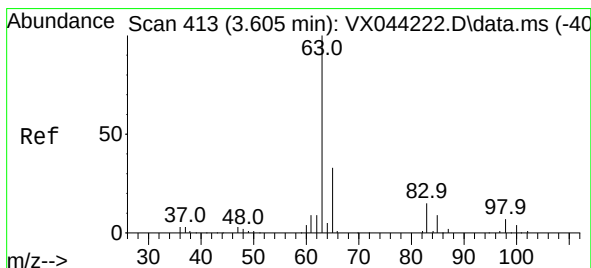
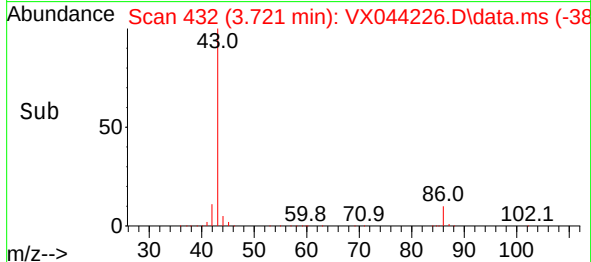
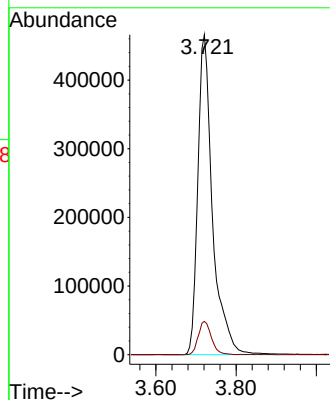
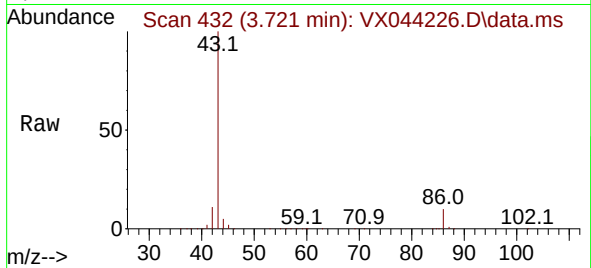




#23
 Vinyl Acetate
 Concen: 258.510 ug/l
 RT: 3.721 min Scan# 413
 Delta R.T. -0.000 min
 Lab File: VX044226.D
 Acq: 11 Dec 2024 13:51

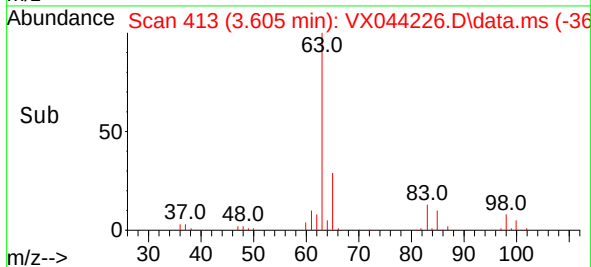
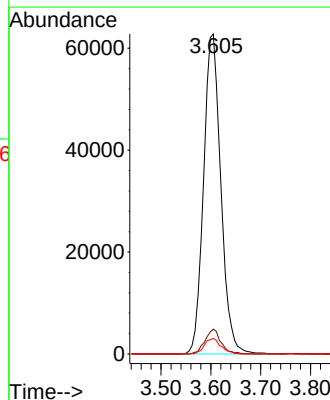
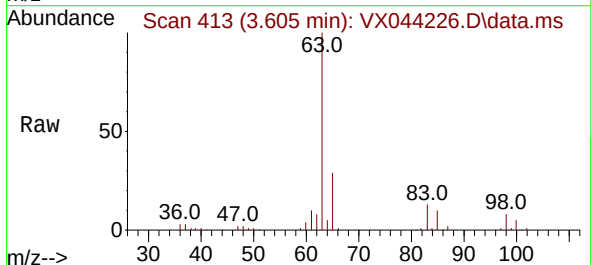
Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX121124

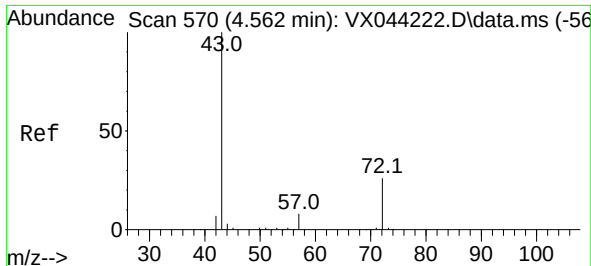
Tgt Ion: 43 Resp: 1185779
 Ion Ratio Lower Upper
 43 100
 86 10.4 8.2 12.2



#24
 1,1-Dichloroethane
 Concen: 48.056 ug/l
 RT: 3.605 min Scan# 413
 Delta R.T. -0.000 min
 Lab File: VX044226.D
 Acq: 11 Dec 2024 13:51

Tgt Ion: 63 Resp: 151134
 Ion Ratio Lower Upper
 63 100
 98 7.8 3.6 10.8
 100 4.8 2.1 6.3

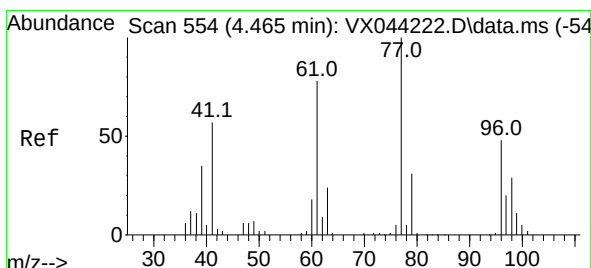
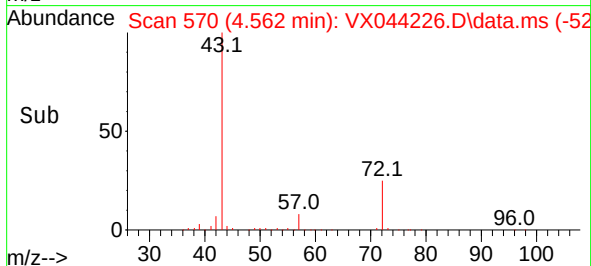
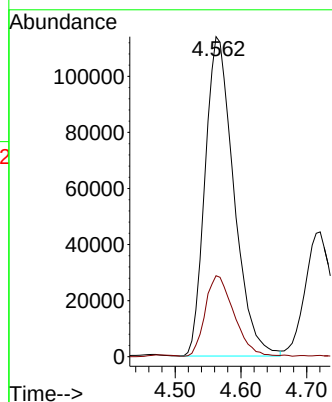
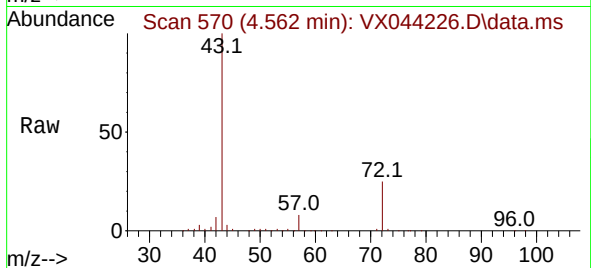




#25
2-Butanone
Concen: 253.747 ug/l
RT: 4.562 min Scan# 51
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

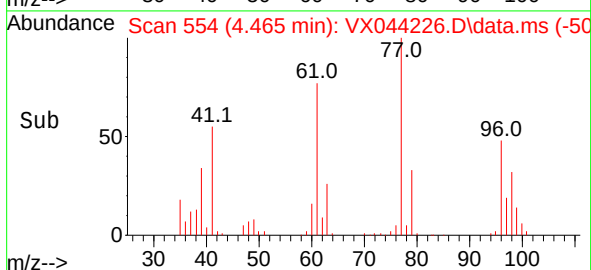
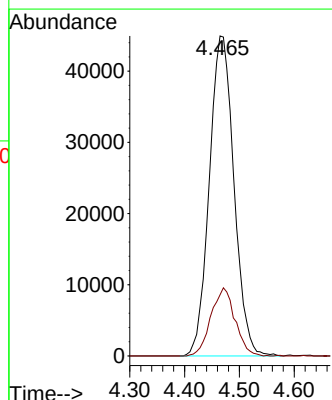
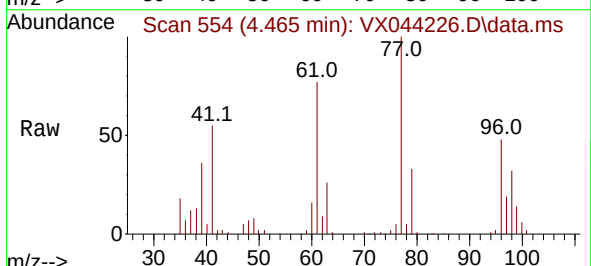
Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

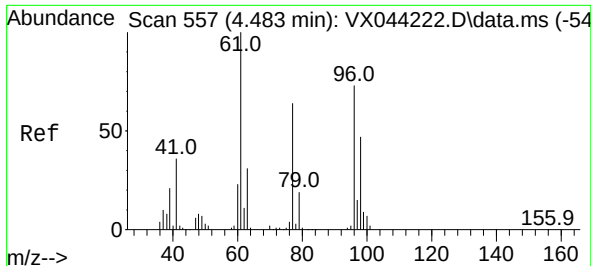
Tgt Ion: 43 Resp: 346052
Ion Ratio Lower Upper
43 100
72 25.2 20.2 30.4



#26
2,2-Dichloropropane
Concen: 54.872 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 77 Resp: 140196
Ion Ratio Lower Upper
77 100
97 20.8 10.7 32.1

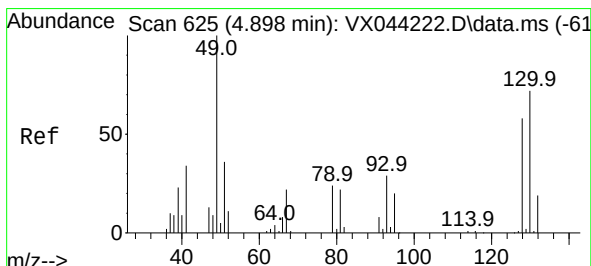
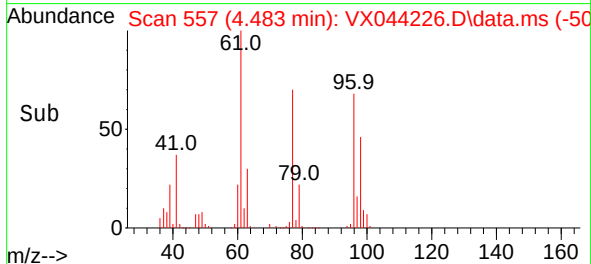
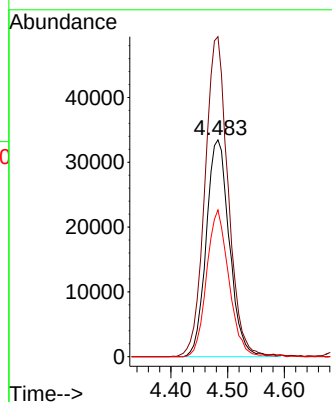
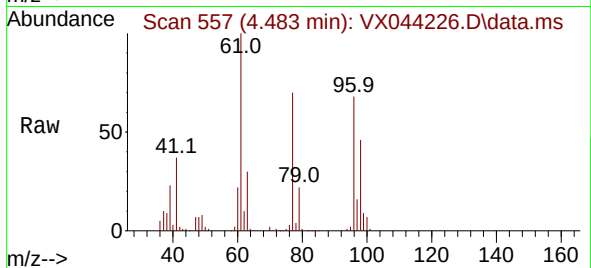




#27
cis-1,2-Dichloroethene
Concen: 46.709 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

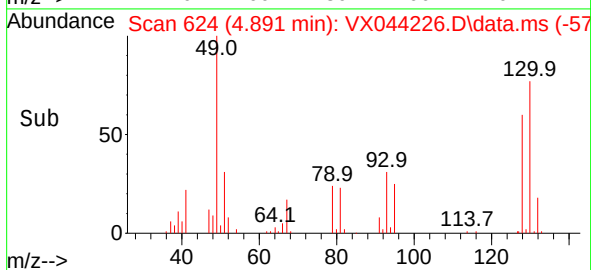
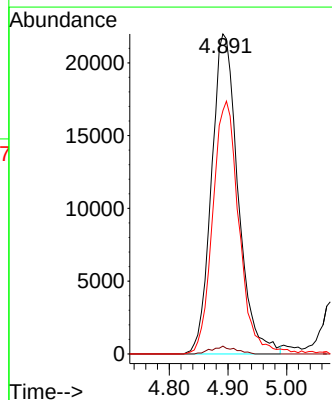
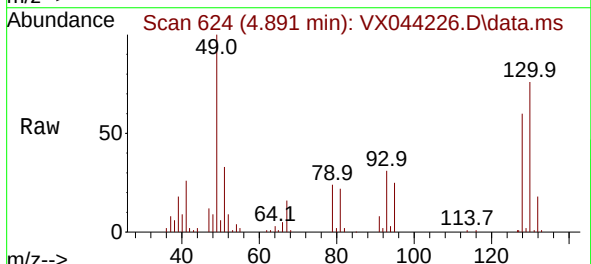
Instrument :
MSVOA_X
ClientSampleId :
ICVX121124

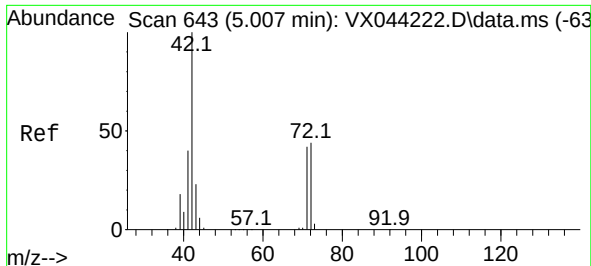
Tgt Ion: 96 Resp: 94838
Ion Ratio Lower Upper
96 100
61 147.7 0.0 299.0
98 64.9 0.0 129.0



#28
Bromochloromethane
Concen: 44.832 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 49 Resp: 69139
Ion Ratio Lower Upper
49 100
129 2.2 0.0 4.2
130 78.1 62.1 93.1

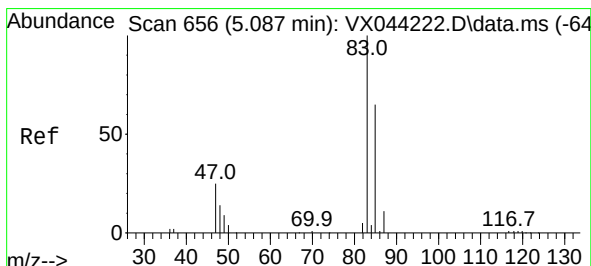
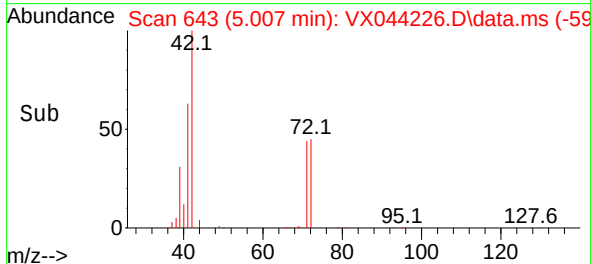
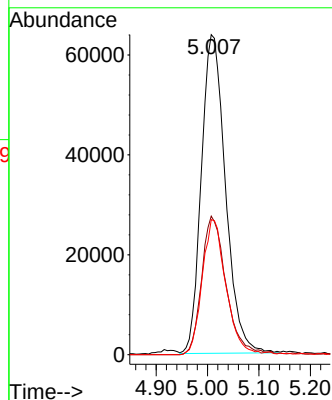
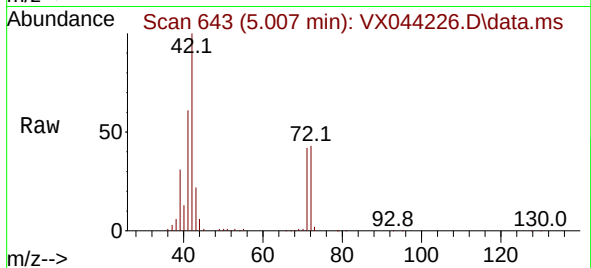




#29
Tetrahydrofuran
Concen: 238.031 ug/l
RT: 5.007 min Scan# 643
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

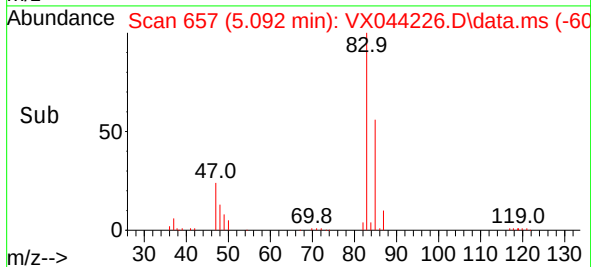
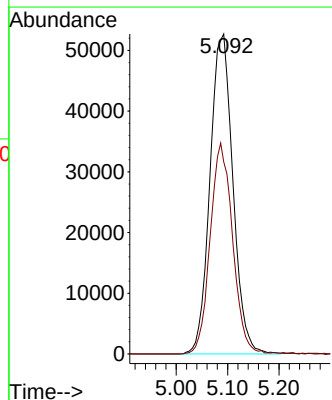
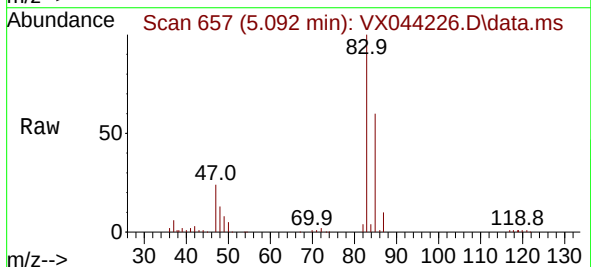
Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

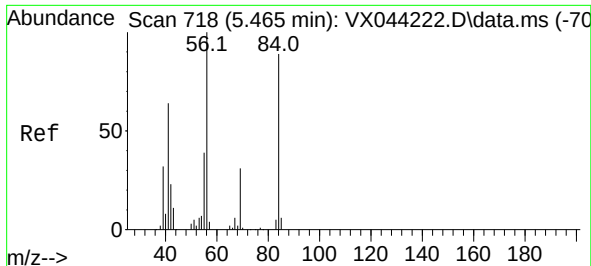
Tgt Ion: 42 Resp: 208362
Ion Ratio Lower Upper
42 100
72 44.2 37.0 55.6
71 41.5 33.6 50.4



#30
Chloroform
Concen: 46.235 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 83 Resp: 163372
Ion Ratio Lower Upper
83 100
85 60.0 51.6 77.4

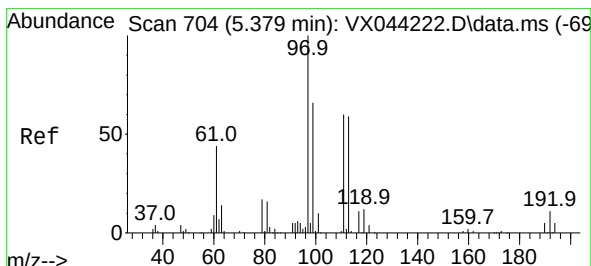
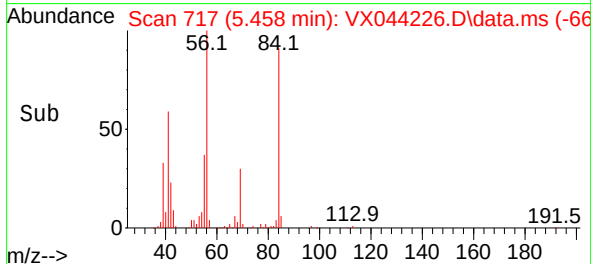
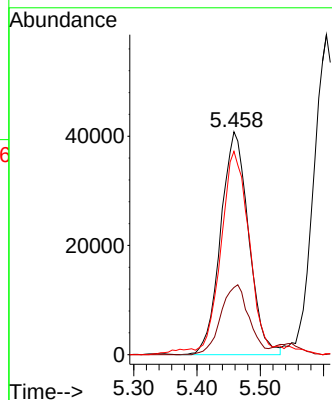
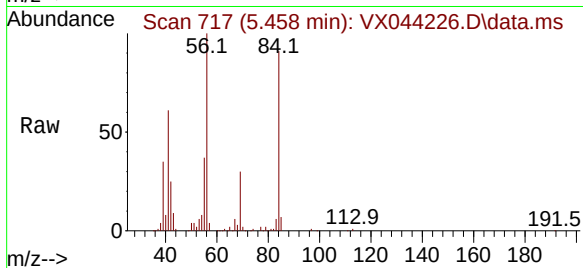




#31
Cyclohexane
Concen: 49.443 ug/l
RT: 5.458 min Scan# 718
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

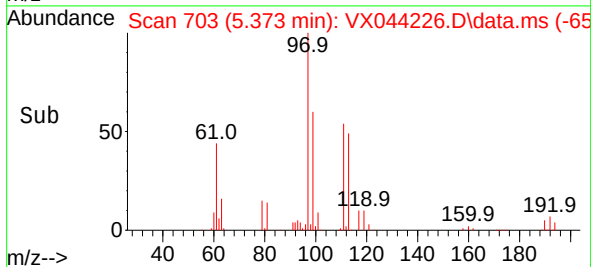
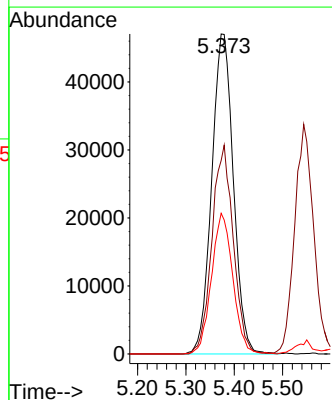
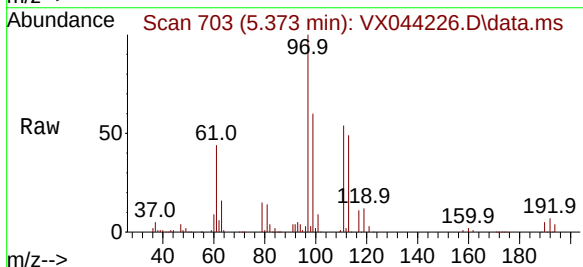
Instrument :
MSVOA_X
ClientSampleId :
ICVX121124

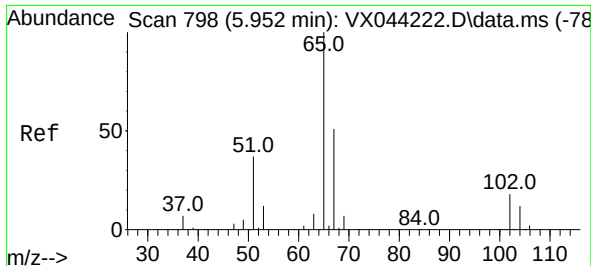
Tgt Ion: 56 Resp: 125567
Ion Ratio Lower Upper
56 100
69 30.2 24.7 37.1
84 88.8 71.0 106.6



#32
1,1,1-Trichloroethane
Concen: 49.895 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 97 Resp: 146348
Ion Ratio Lower Upper
97 100
99 64.2 50.8 76.2
61 43.3 35.2 52.8

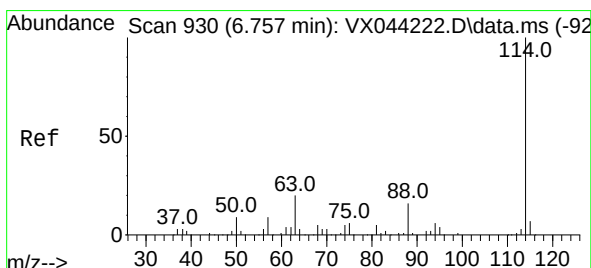
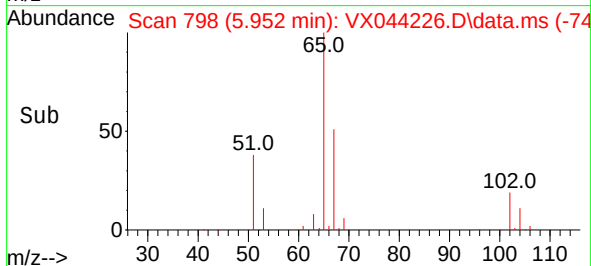
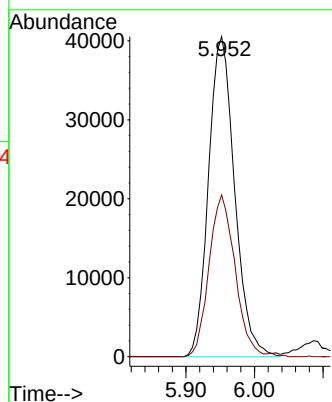
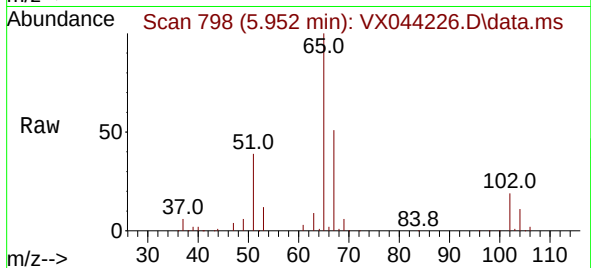




#33
1,2-Dichloroethane-d4
Concen: 45.646 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

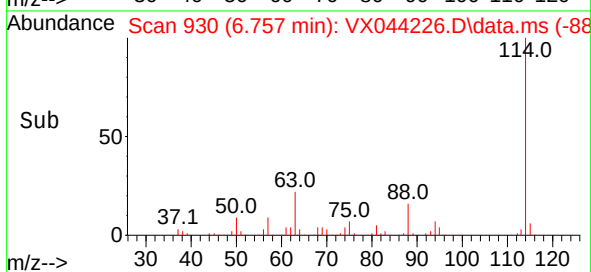
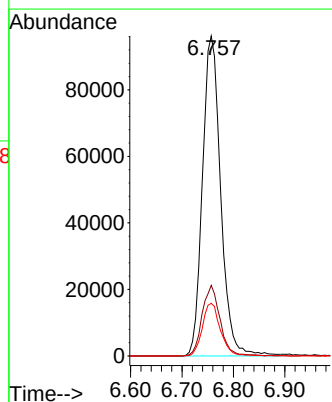
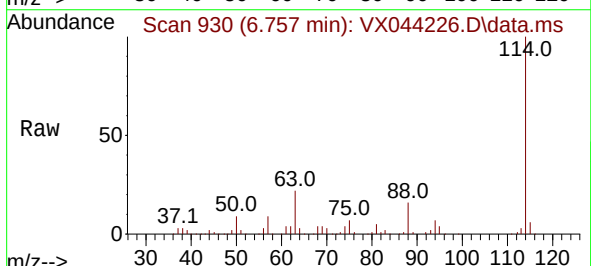
Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

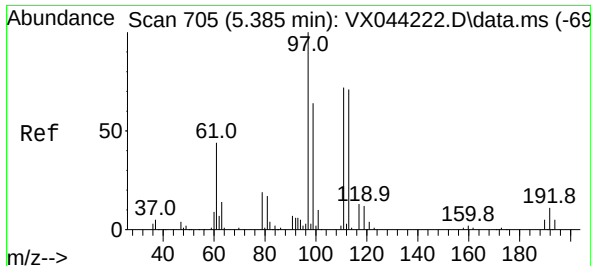
Tgt Ion: 65 Resp: 107407
Ion Ratio Lower Upper
65 100
67 50.5 0.0 101.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 114 Resp: 237295
Ion Ratio Lower Upper
114 100
63 22.0 0.0 40.6
88 16.4 0.0 31.8





#35

Dibromofluoromethane

Concen: 47.228 ug/l

RT: 5.379 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

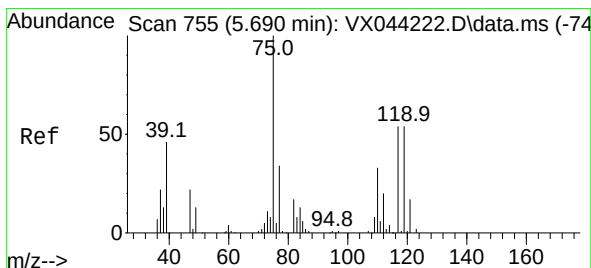
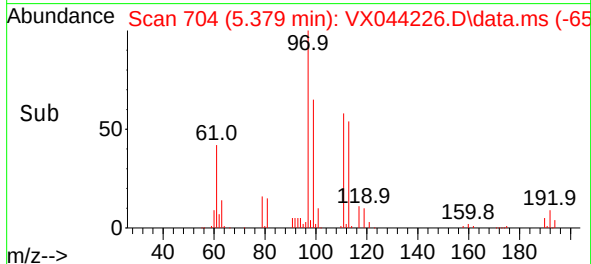
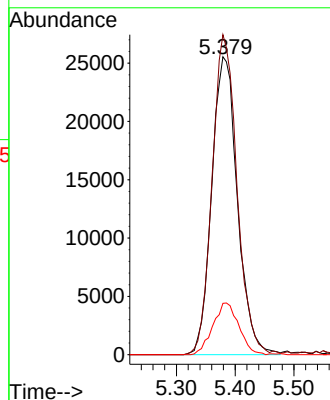
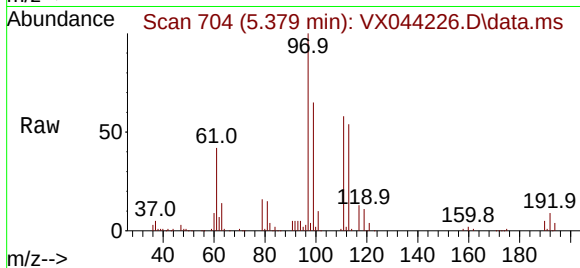
Tgt Ion:113 Resp: 77619

Ion Ratio Lower Upper

113 100

111 103.8 80.4 120.6

192 17.5 13.3 19.9



#36

1,1-Dichloropropene

Concen: 50.314 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

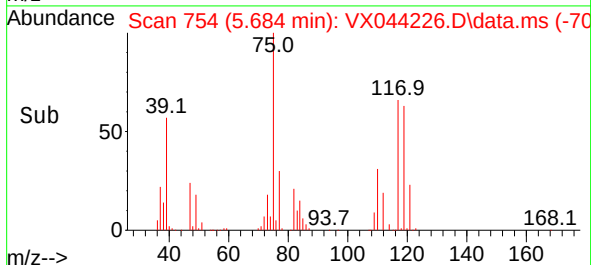
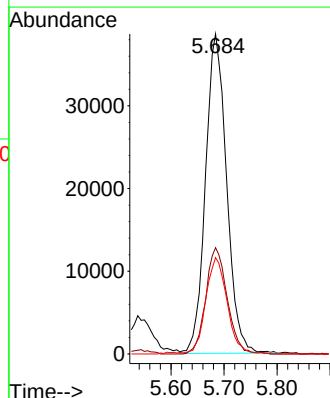
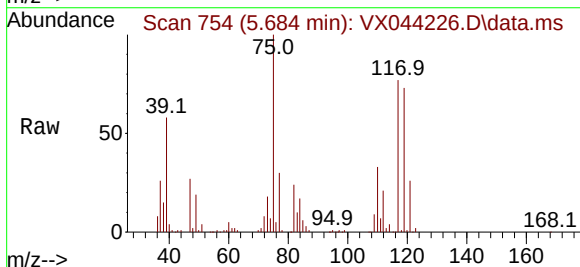
Tgt Ion: 75 Resp: 106889

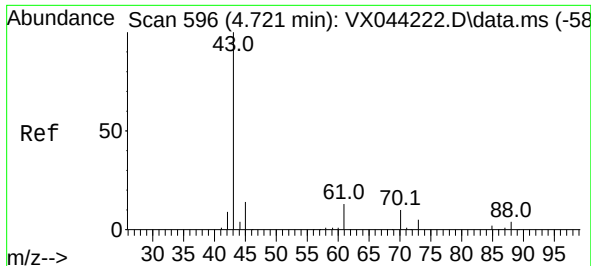
Ion Ratio Lower Upper

75 100

110 33.8 17.3 51.7

77 30.5 25.4 38.0





#37

Ethyl Acetate

Concen: 52.176 ug/l

RT: 4.721 min Scan# 596

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

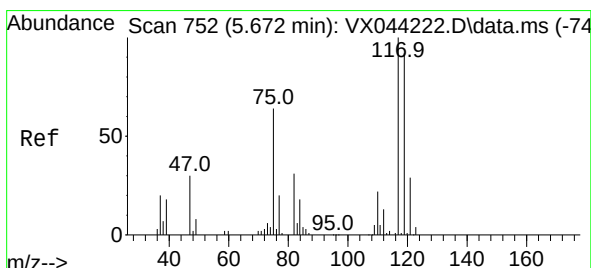
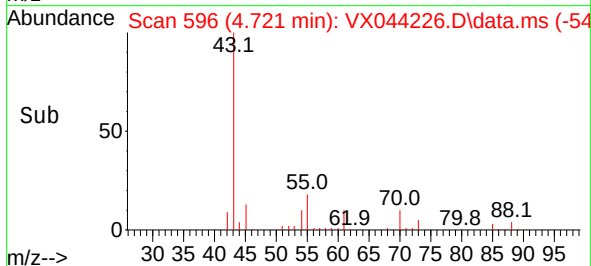
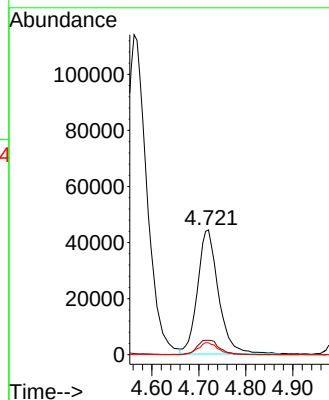
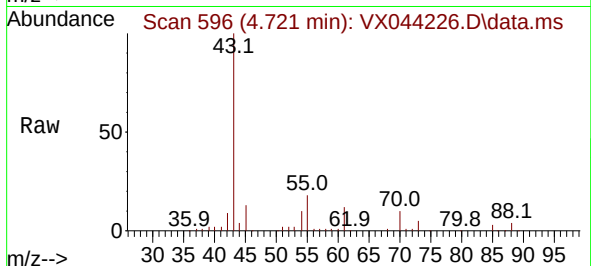
Tgt Ion: 43 Resp: 137017

Ion Ratio Lower Upper

43 100

61 12.0 9.8 14.8

70 9.4 7.7 11.5



#38

Carbon Tetrachloride

Concen: 51.763 ug/l

RT: 5.672 min Scan# 752

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

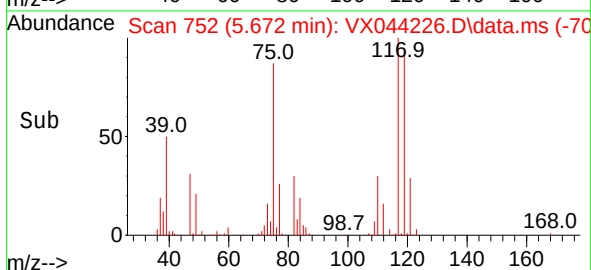
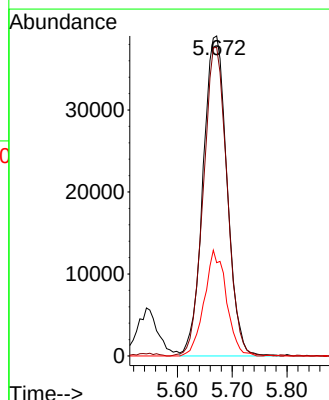
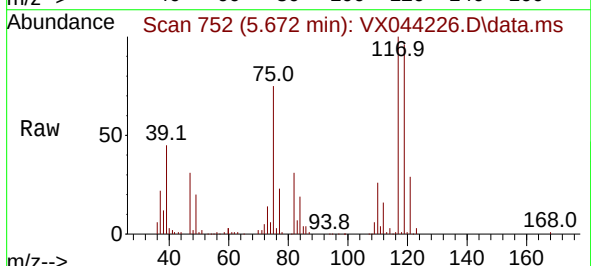
Tgt Ion: 117 Resp: 118390

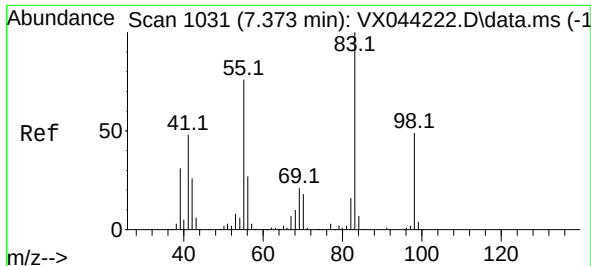
Ion Ratio Lower Upper

117 100

119 96.0 74.2 111.4

121 29.1 23.0 34.6





#39

Methylcyclohexane

Concen: 54.761 ug/l

RT: 7.373 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

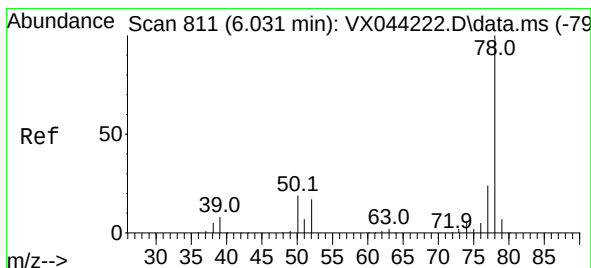
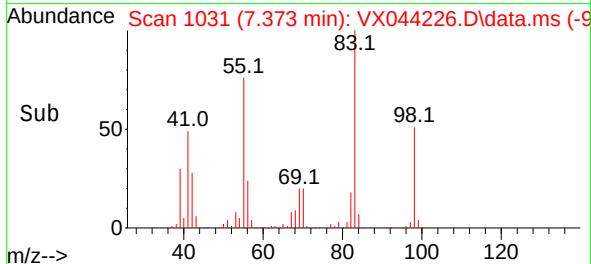
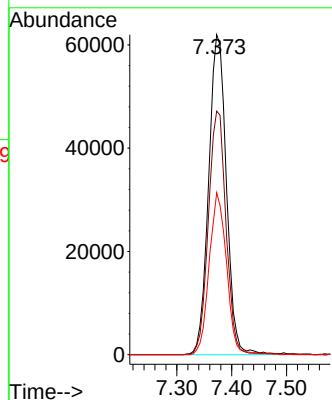
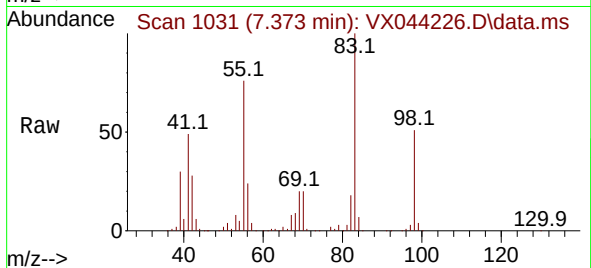
Tgt Ion: 83 Resp: 139077

Ion Ratio Lower Upper

83 100

55 76.1 60.7 91.1

98 50.6 38.9 58.3



#40

Benzene

Concen: 49.052 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX044226.D

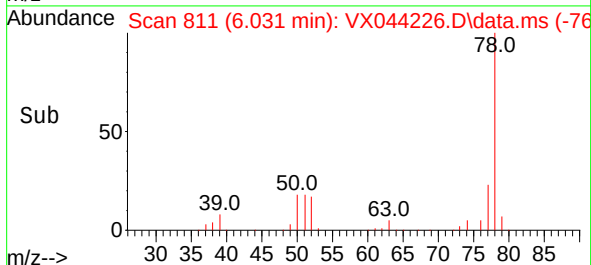
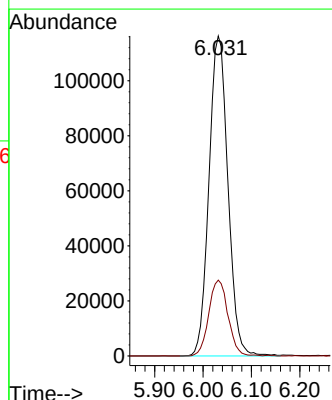
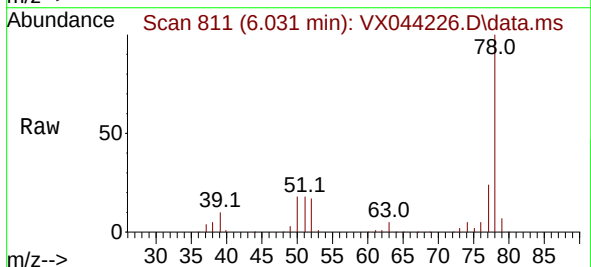
Acq: 11 Dec 2024 13:51

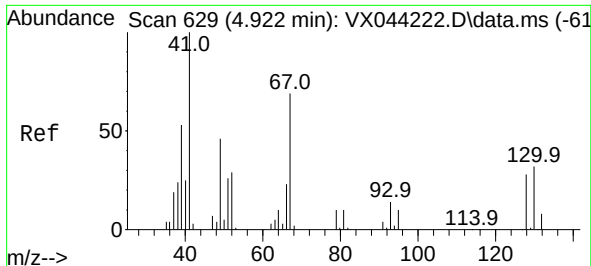
Tgt Ion: 78 Resp: 316391

Ion Ratio Lower Upper

78 100

77 23.7 19.3 28.9

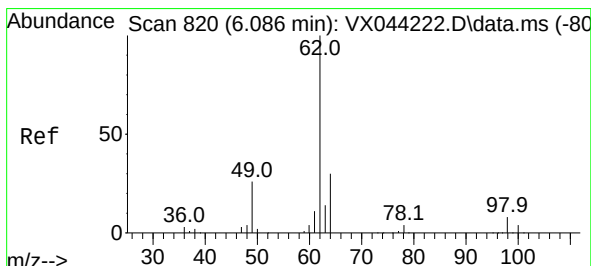
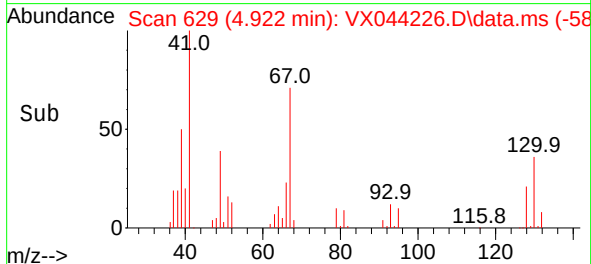
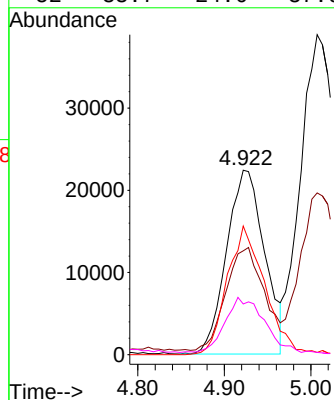
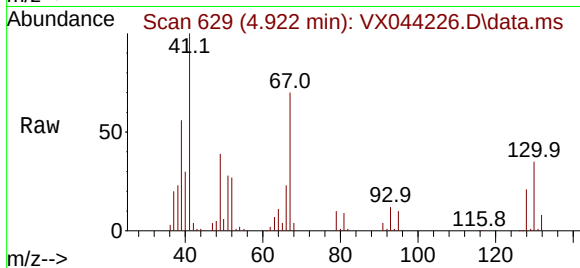




#41
Methacrylonitrile
Concen: 48.945 ug/l
RT: 4.922 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

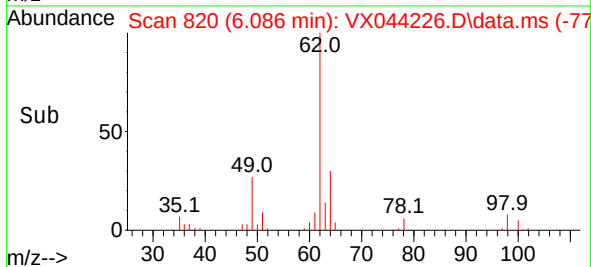
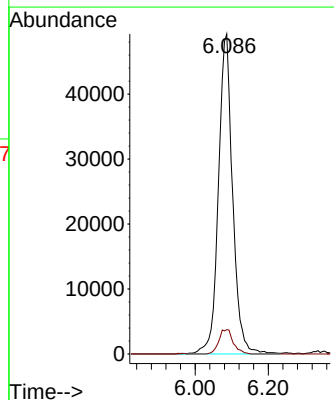
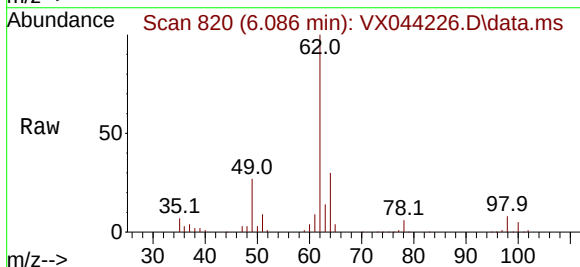
Instrument :
MSVOA_X
ClientSampleId :
ICVX121124

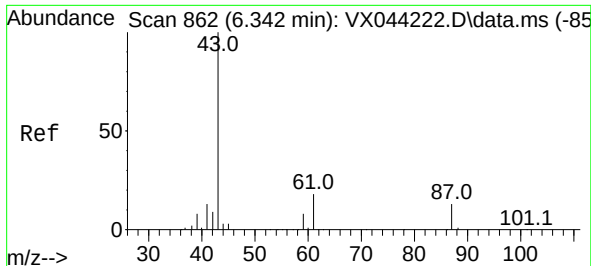
Tgt Ion:	41	Resp:	68251
Ion	Ratio	Lower	Upper
41	100		
39	56.3	44.2	66.4
67	69.8	57.2	85.8
52	33.7	24.6	37.0



#42
1,2-Dichloroethane
Concen: 49.960 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:	62	Resp:	132744
Ion	Ratio	Lower	Upper
62	100		
98	7.7	0.0	15.8

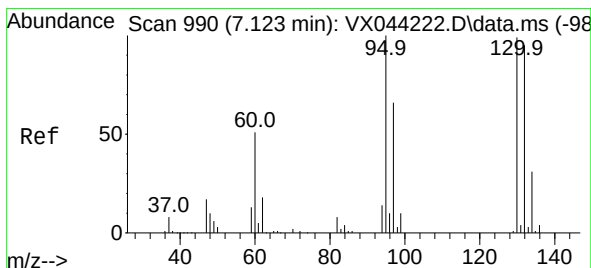
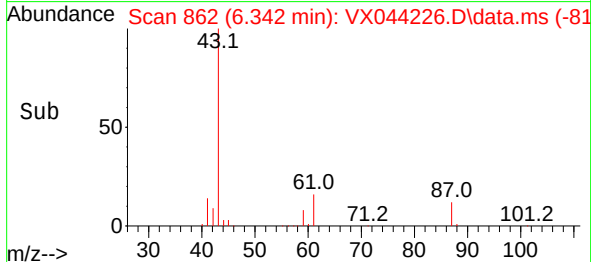
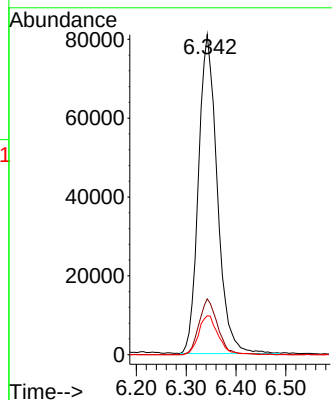
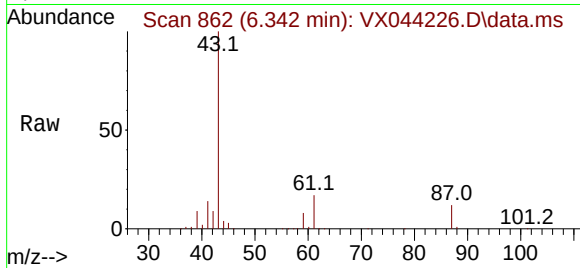




#43
Isopropyl Acetate
Concen: 51.624 ug/l
RT: 6.342 min Scan# 862
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

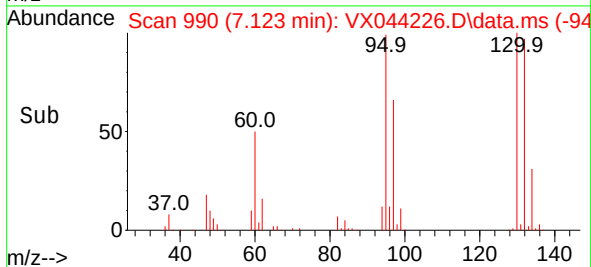
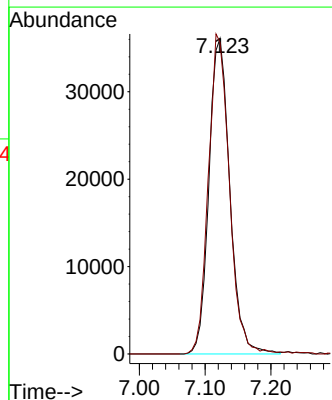
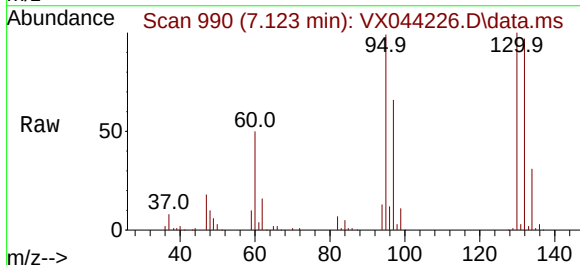
Instrument :
MSVOA_X
ClientSampleId :
ICVX121124

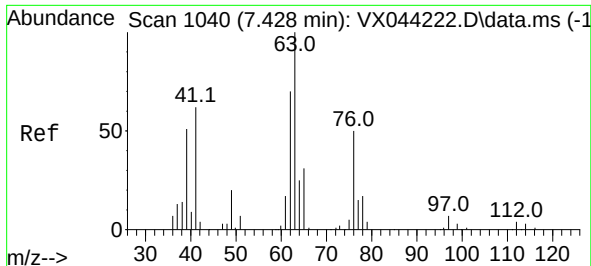
Tgt Ion: 43 Resp: 211889
Ion Ratio Lower Upper
43 100
61 17.4 14.2 21.2
87 12.7 10.2 15.2



#44
Trichloroethene
Concen: 49.741 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:130 Resp: 80008
Ion Ratio Lower Upper
130 100
95 98.8 0.0 201.4





#45

1,2-Dichloropropane

Concen: 47.528 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

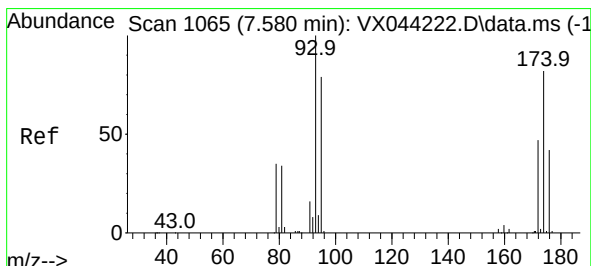
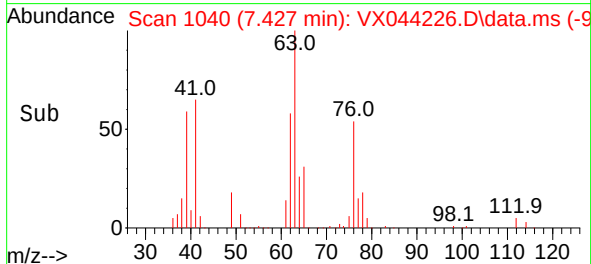
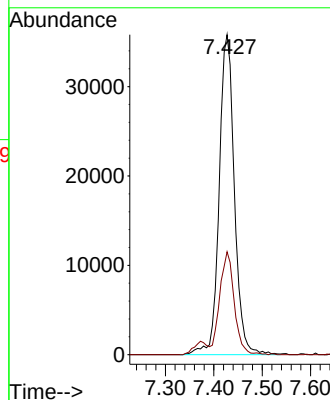
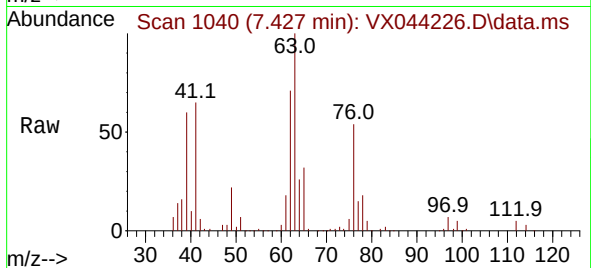
ICVX121124

Tgt Ion: 63 Resp: 78321

Ion Ratio Lower Upper

63 100

65 32.1 24.6 37.0



#46

Dibromomethane

Concen: 51.227 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. -0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

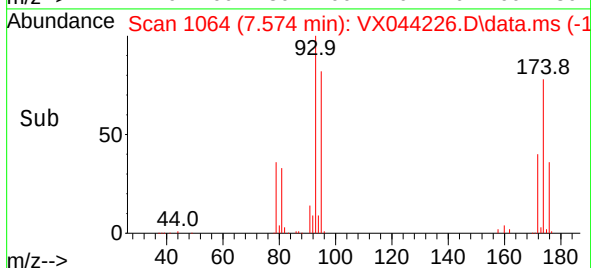
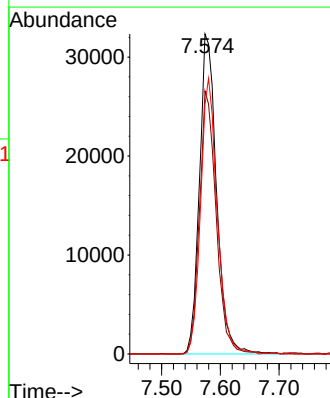
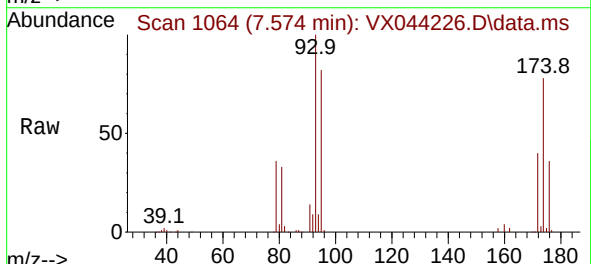
Tgt Ion: 93 Resp: 65491

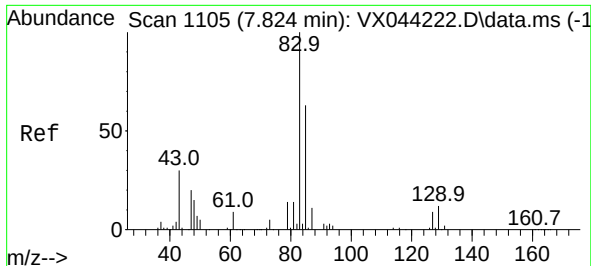
Ion Ratio Lower Upper

93 100

95 80.5 65.4 98.2

174 84.0 67.9 101.9

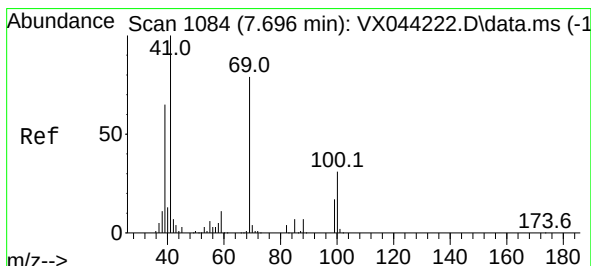
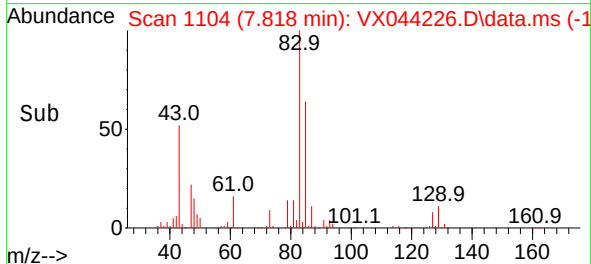
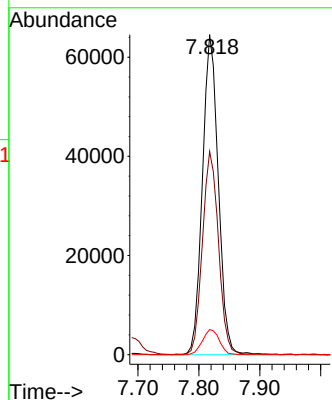
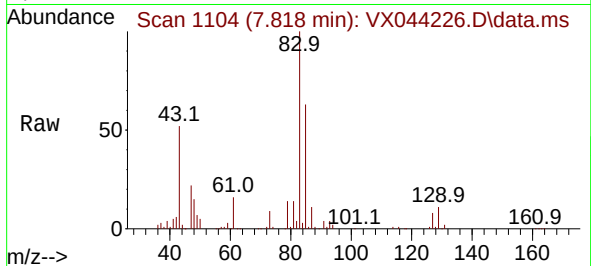




#47
Bromodichloromethane
Concen: 52.893 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

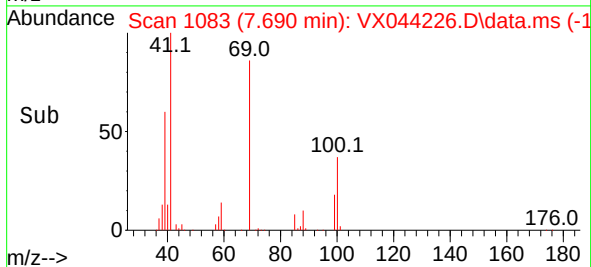
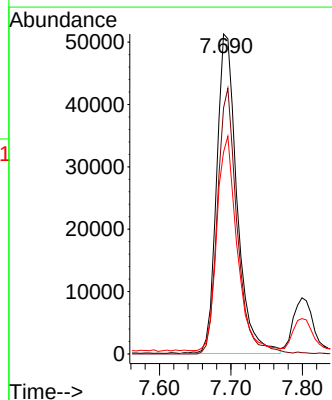
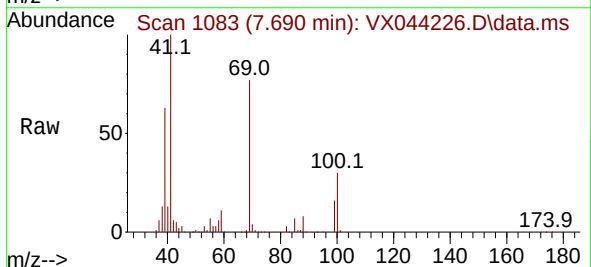
Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

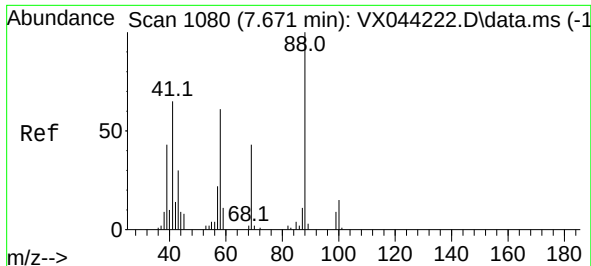
Tgt Ion: 83 Resp: 116783
Ion Ratio Lower Upper
83 100
85 63.5 50.6 75.8
127 7.9 7.3 10.9



#48
Methyl methacrylate
Concen: 50.852 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 41 Resp: 101318
Ion Ratio Lower Upper
41 100
69 79.9 62.4 93.6
39 66.0 53.3 79.9





#49

1,4-Dioxane

Concen: 791.313 ug/l

RT: 7.665 min Scan# 1080

Delta R.T. -0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVVX121124

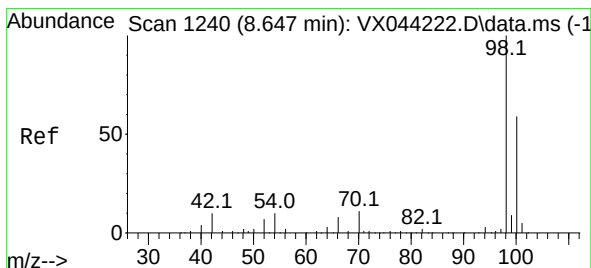
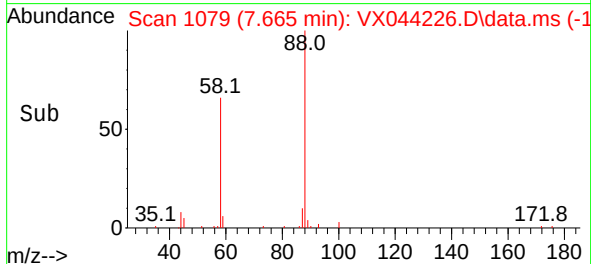
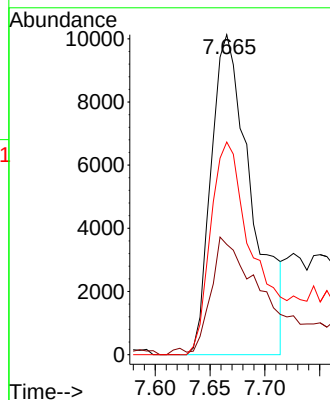
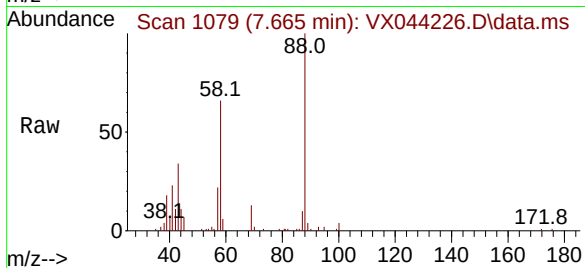
Tgt Ion: 88 Resp: 26140

Ion Ratio Lower Upper

88 100

43 51.8 27.1 40.7#

58 70.7 41.0 61.4#



#50

Toluene-d8

Concen: 48.968 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX044226.D

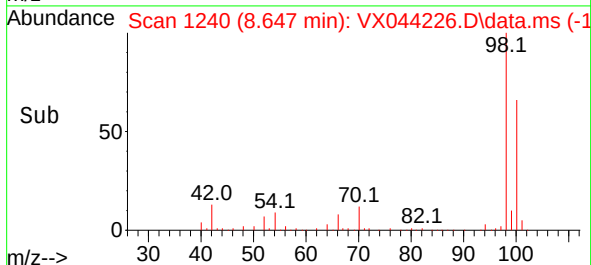
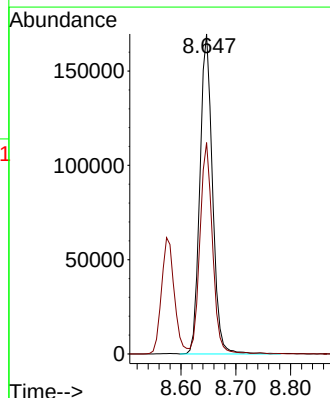
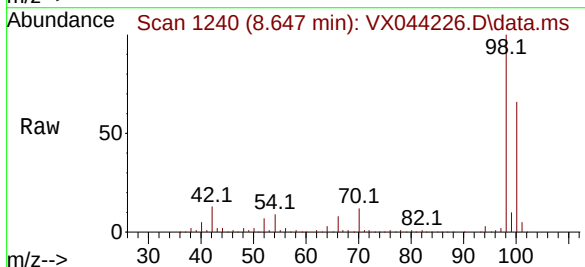
Acq: 11 Dec 2024 13:51

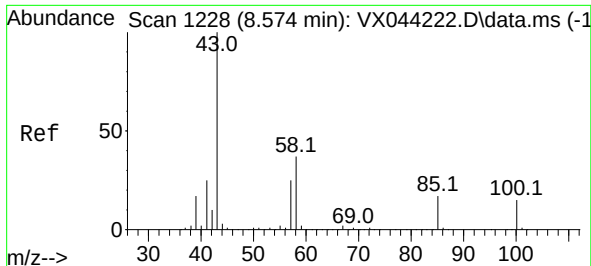
Tgt Ion: 98 Resp: 271508

Ion Ratio Lower Upper

98 100

100 64.8 51.5 77.3

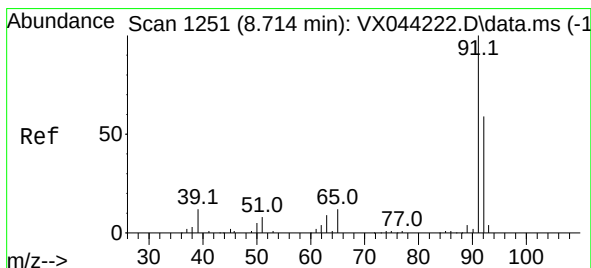
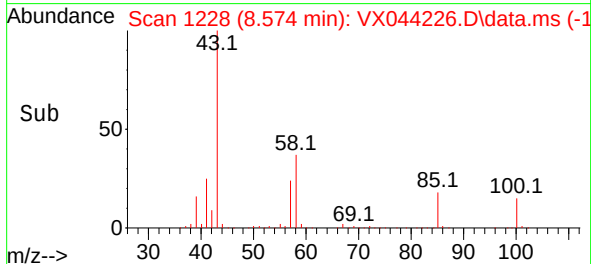
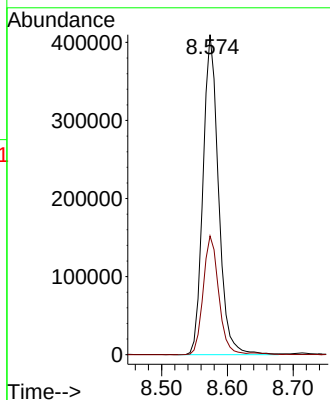
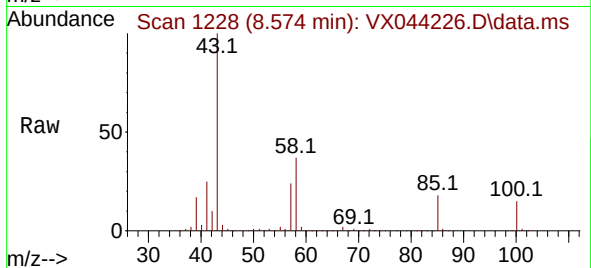




#51
4-Methyl-2-Pentanone
Concen: 255.038 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

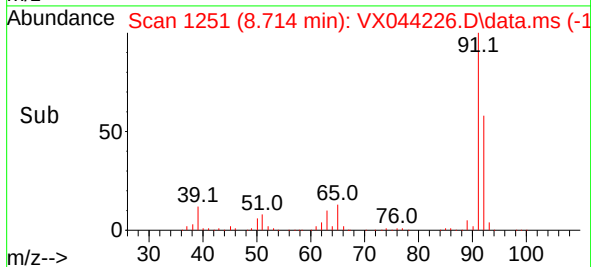
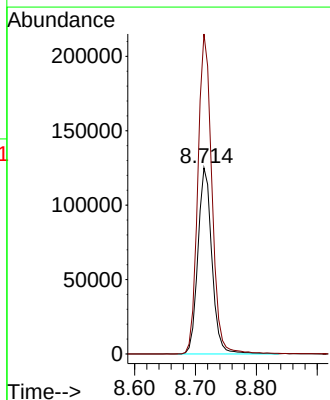
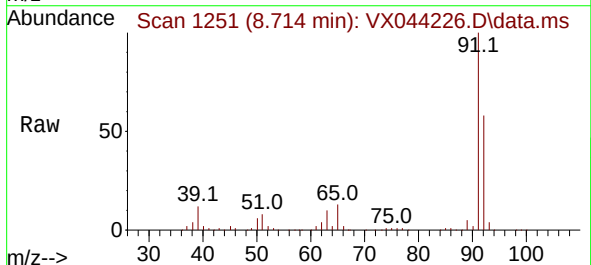
Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

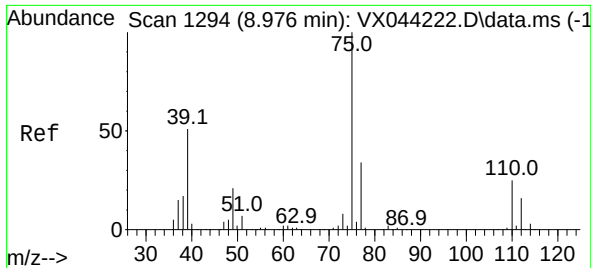
Tgt Ion: 43 Resp: 673069
Ion Ratio Lower Upper
43 100
58 37.0 29.4 44.0



#52
Toluene
Concen: 49.199 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 92 Resp: 199281
Ion Ratio Lower Upper
92 100
91 173.2 137.0 205.6

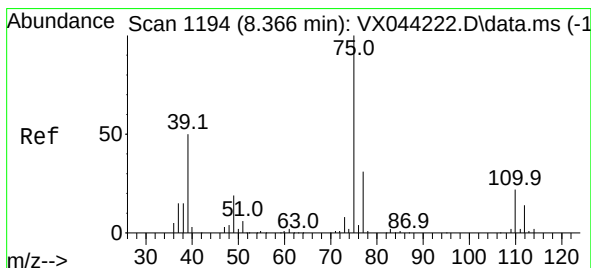
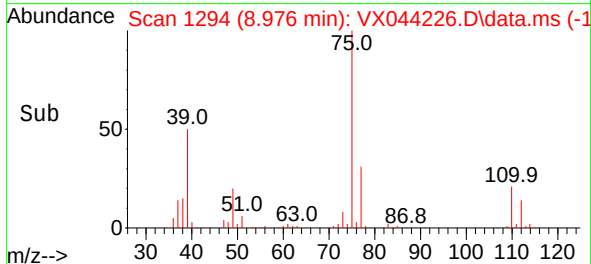
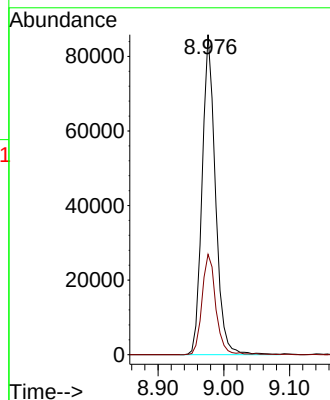
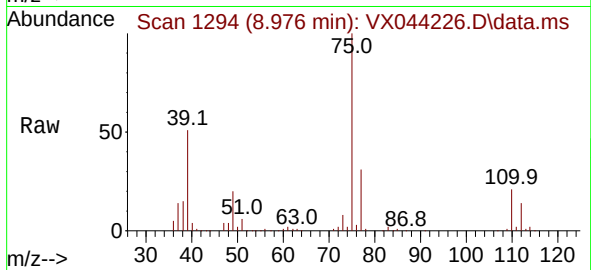




#53
t-1,3-Dichloropropene
Concen: 50.864 ug/l
RT: 8.976 min Scan# 1294
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

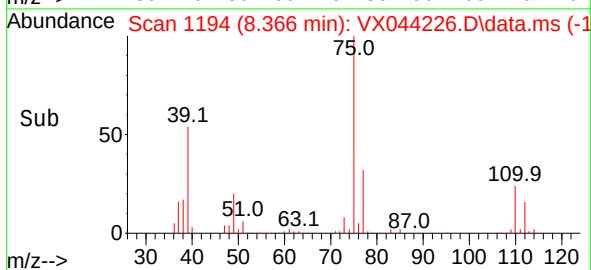
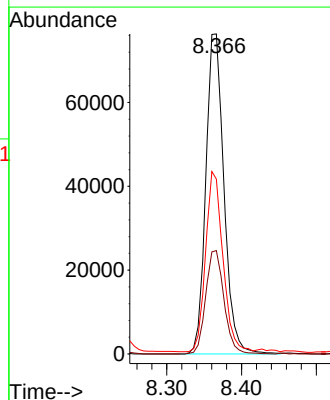
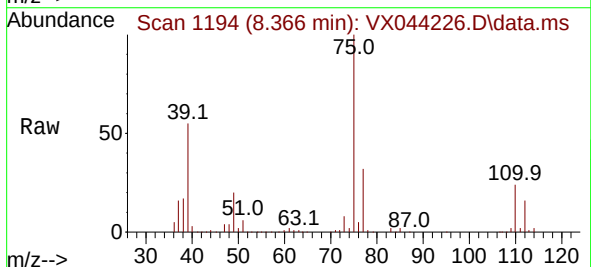
Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

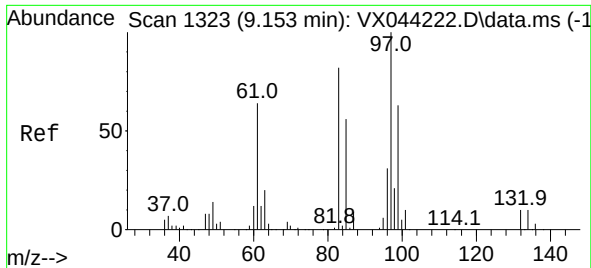
Tgt Ion: 75 Resp: 120696
Ion Ratio Lower Upper
75 100
77 31.4 27.2 40.8



#54
cis-1,3-Dichloropropene
Concen: 53.607 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 128875
Ion Ratio Lower Upper
75 100
77 32.3 24.7 37.1
39 53.9 40.3 60.5

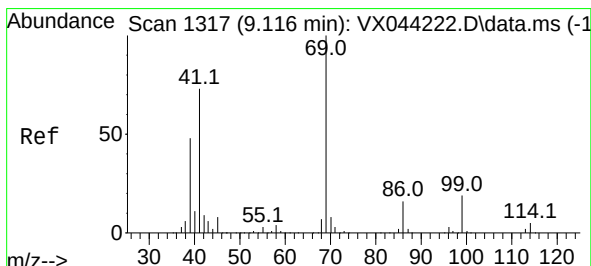
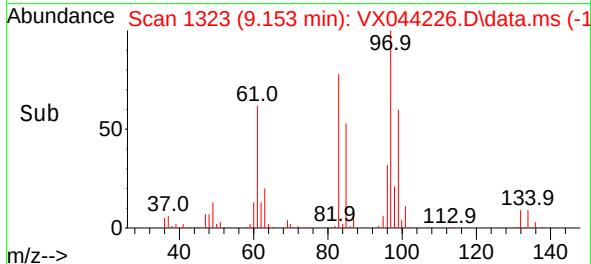
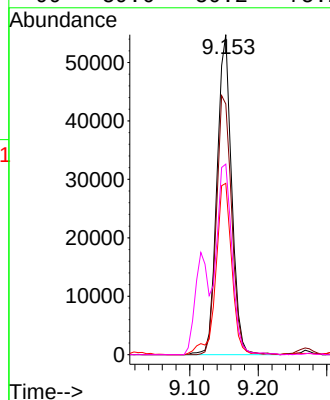
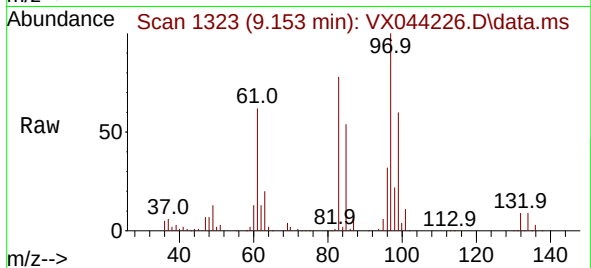




#55
1,1,2-Trichloroethane
Concen: 50.562 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

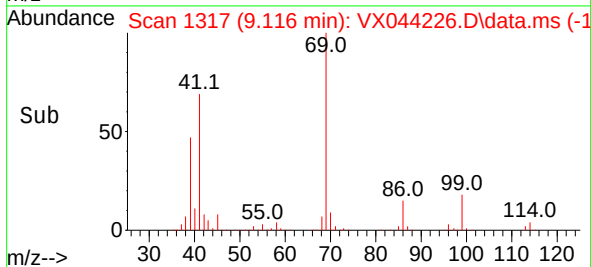
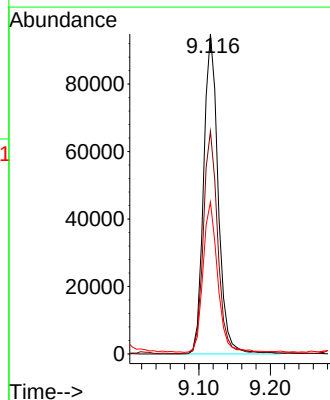
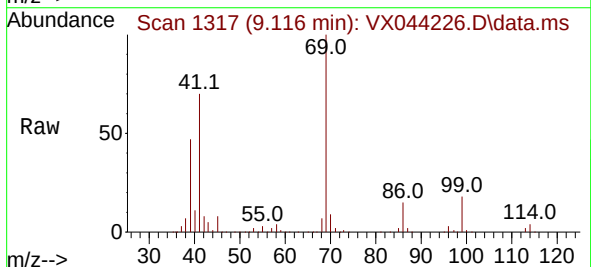
Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

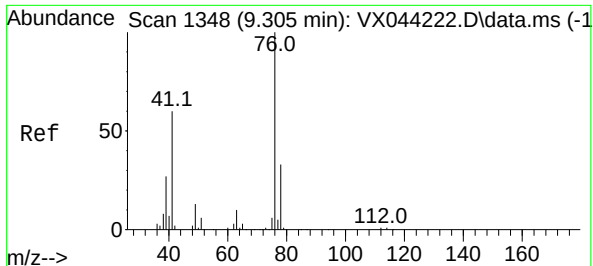
Tgt Ion:	97	Resp:	81362
Ion	Ratio	Lower	Upper
97	100		
83	78.3	65.3	97.9
85	53.6	44.6	67.0
99	59.6	50.2	75.2



#56
Ethyl methacrylate
Concen: 52.890 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:	69	Resp:	134357
Ion	Ratio	Lower	Upper
69	100		
41	68.6	56.6	85.0
39	47.2	37.4	56.0

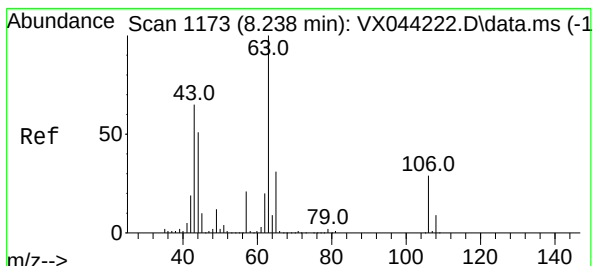
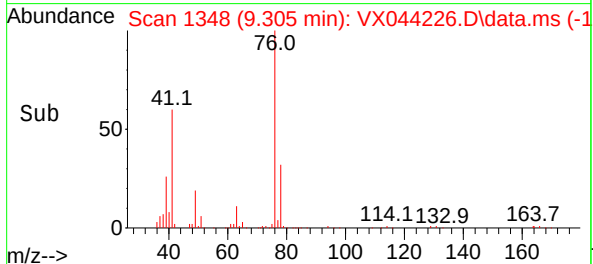
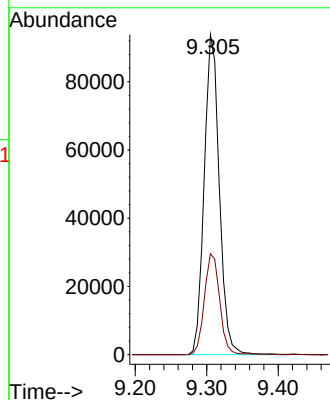
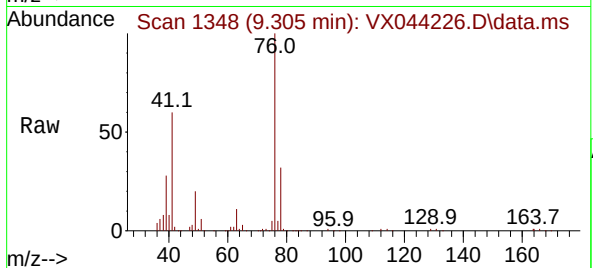




#57
1,3-Dichloropropane
Concen: 49.165 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

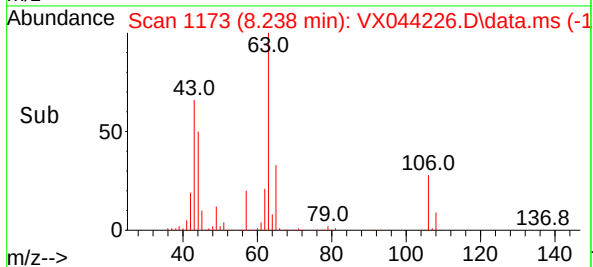
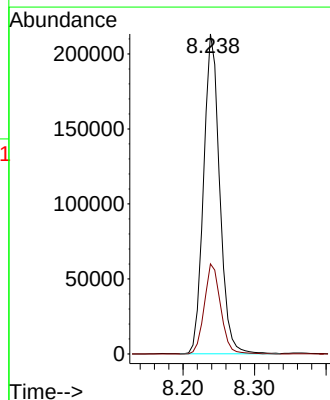
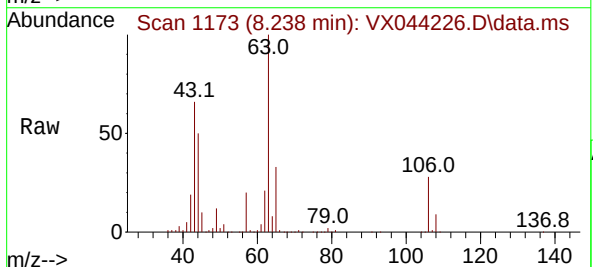
Instrument :
MSVOA_X
ClientSampleId :
ICVX121124

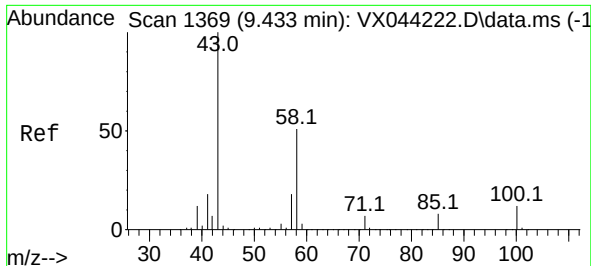
Tgt Ion: 76 Resp: 137705
Ion Ratio Lower Upper
76 100
78 32.1 26.5 39.7



#58
2-Chloroethyl Vinyl ether
Concen: 259.586 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 63 Resp: 332599
Ion Ratio Lower Upper
63 100
106 28.6 22.8 34.2

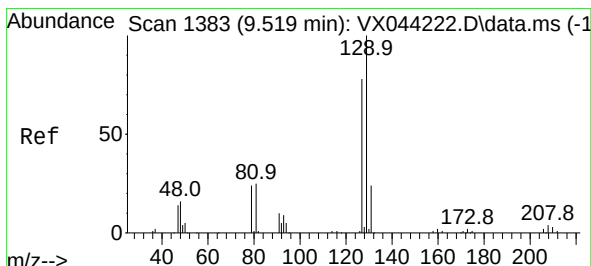
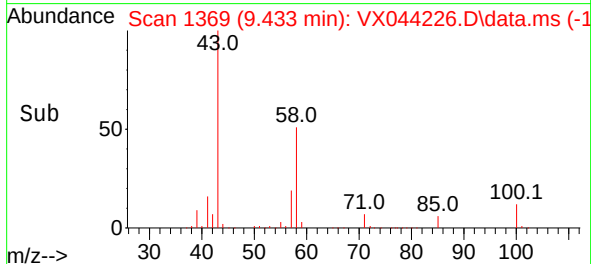
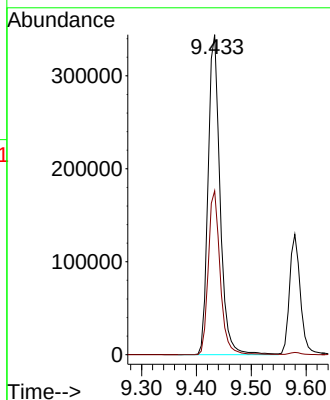
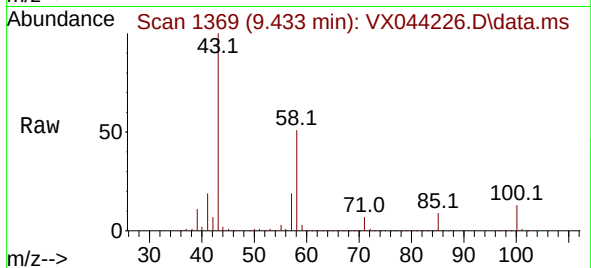




#59
2-Hexanone
Concen: 271.943 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

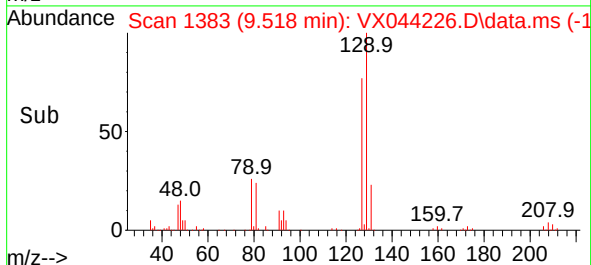
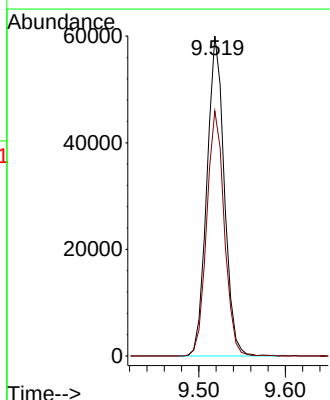
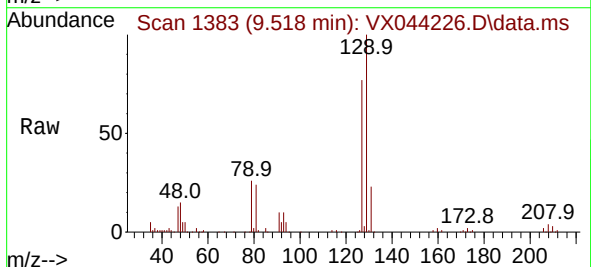
Instrument : MSVOA_X
ClientSampleId : ICVVX121124

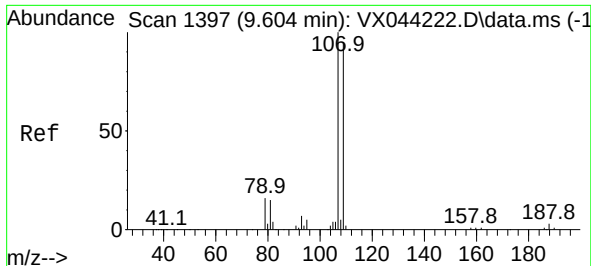
Tgt Ion: 43 Resp: 519476
Ion Ratio Lower Upper
43 100
58 50.7 25.7 77.0



#60
Dibromochloromethane
Concen: 49.073 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 129 Resp: 83515
Ion Ratio Lower Upper
129 100
127 77.5 38.5 115.3





#61

1,2-Dibromoethane

Concen: 51.909 ug/l

RT: 9.610 min Scan# 1397

Delta R.T. 0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

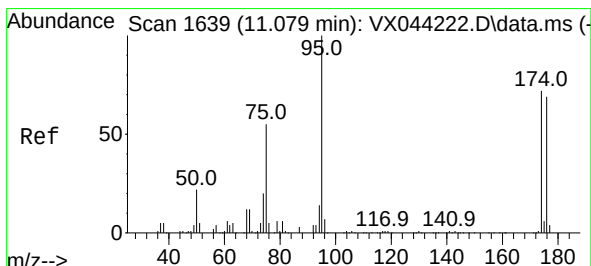
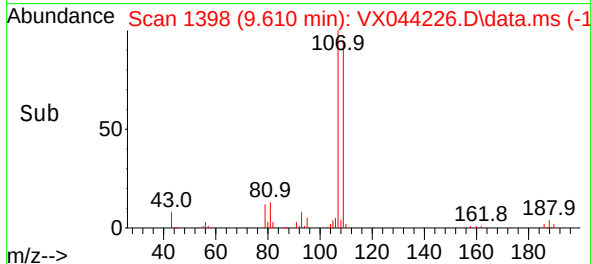
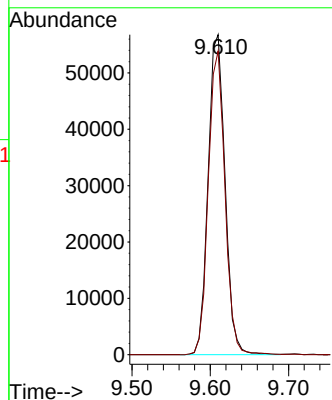
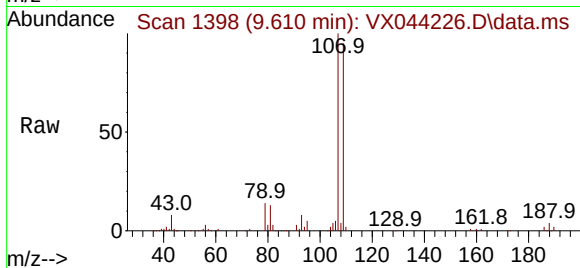
ICVX121124

Tgt Ion:107 Resp: 85024

Ion Ratio Lower Upper

107 100

109 93.7 77.0 115.4



#62

4-Bromofluorobenzene

Concen: 50.098 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

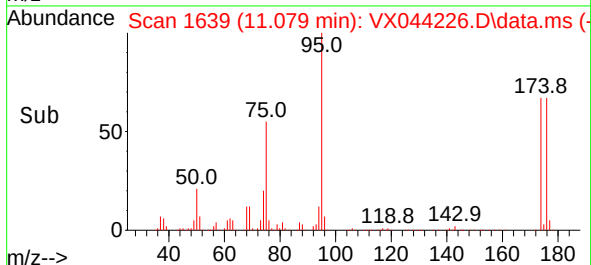
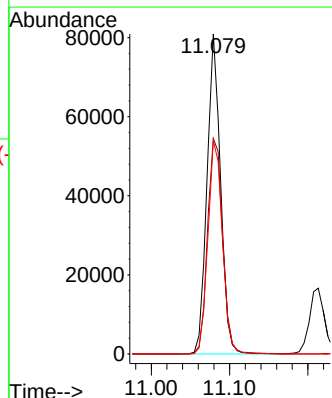
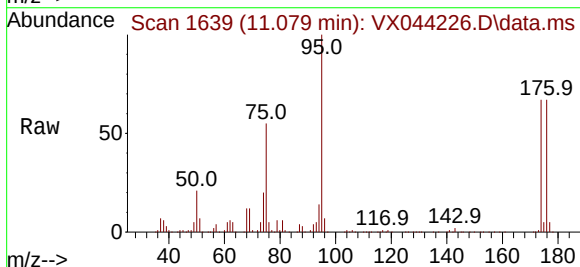
Tgt Ion: 95 Resp: 97061

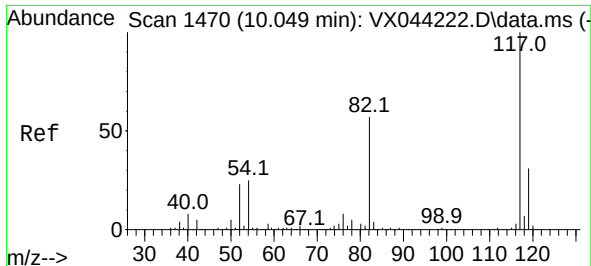
Ion Ratio Lower Upper

95 100

174 74.3 0.0 145.8

176 71.4 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVVX121124

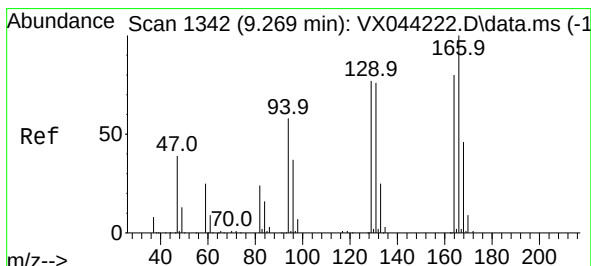
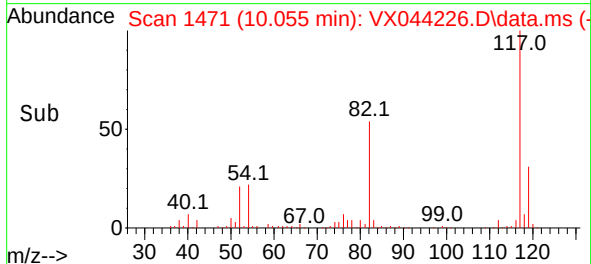
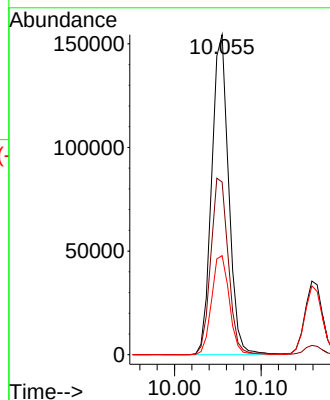
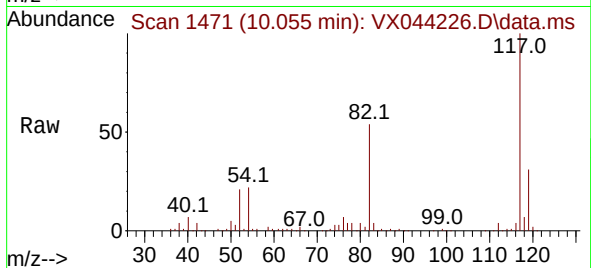
Tgt Ion:117 Resp: 210572

Ion Ratio Lower Upper

117 100

82 54.0 45.8 68.8

119 31.0 25.0 37.4



#64

Tetrachloroethene

Concen: 47.702 ug/l

RT: 9.269 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Tgt Ion:164 Resp: 66669

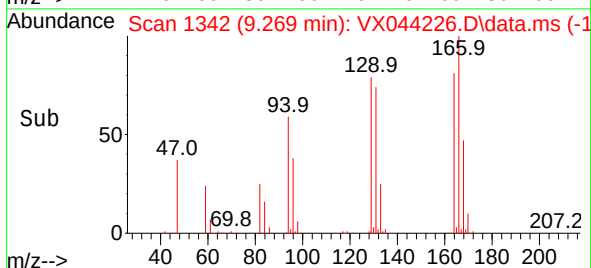
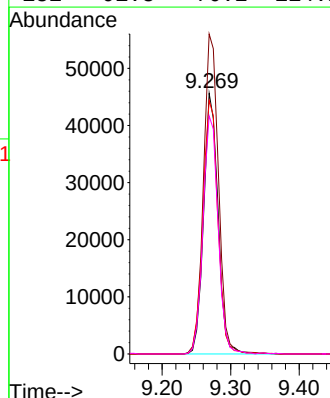
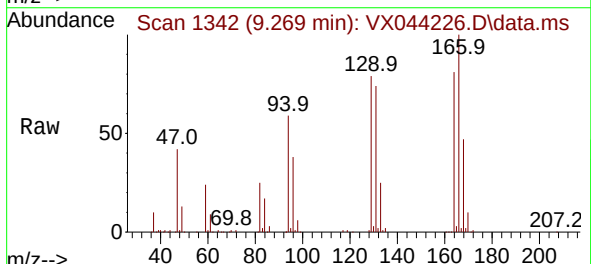
Ion Ratio Lower Upper

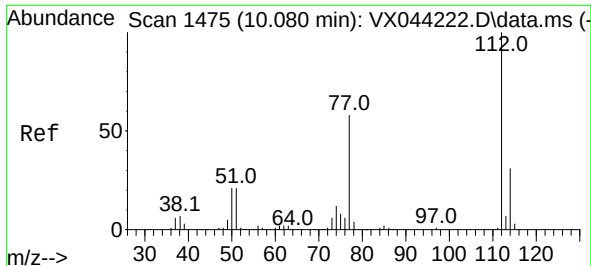
164 100

166 122.8 100.4 150.6

129 97.2 77.2 115.8

131 91.3 76.2 114.2





#65

Chlorobenzene

Concen: 48.133 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

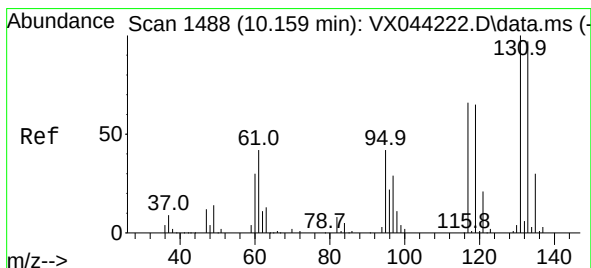
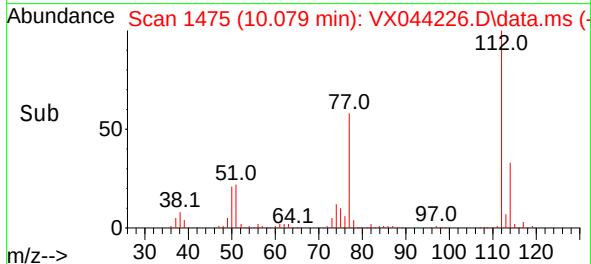
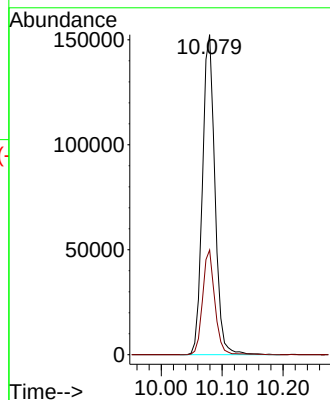
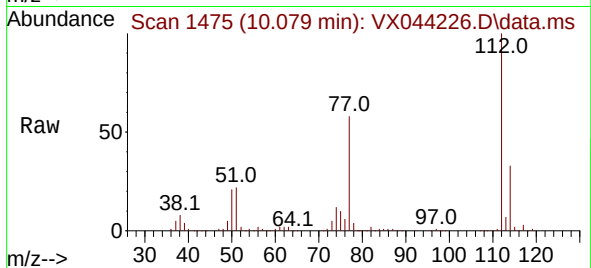
ICVVX121124

Tgt Ion:112 Resp: 217180

Ion Ratio Lower Upper

112 100

114 32.7 25.0 37.6



#66

1,1,1,2-Tetrachloroethane

Concen: 51.396 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

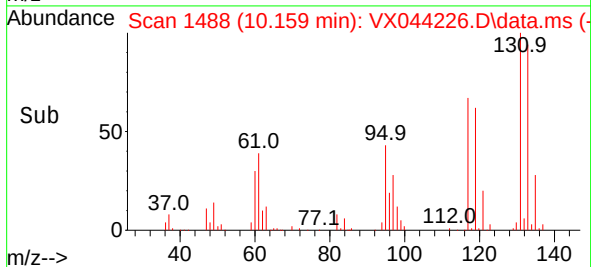
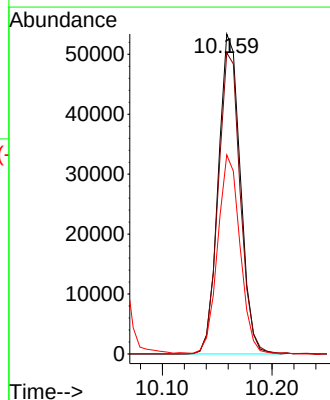
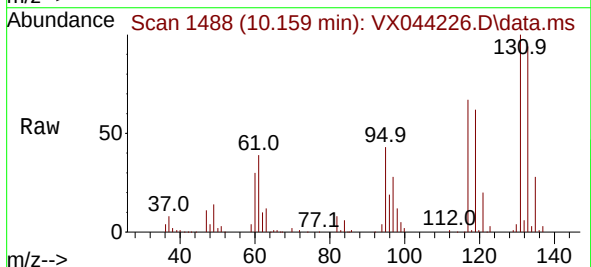
Tgt Ion:131 Resp: 74531

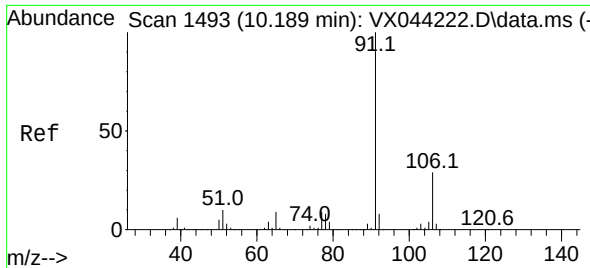
Ion Ratio Lower Upper

131 100

133 94.6 47.3 141.8

119 63.3 31.6 95.0





#67

Ethyl Benzene

Concen: 49.461 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

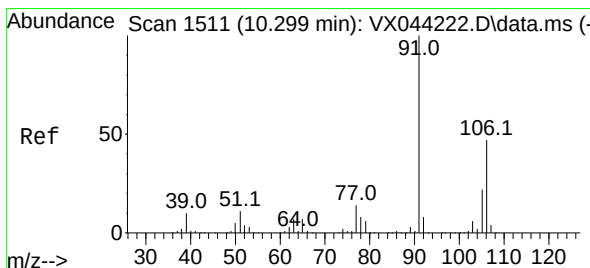
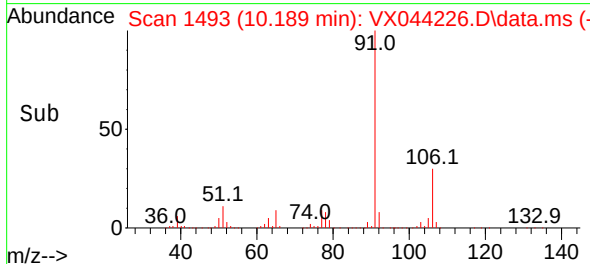
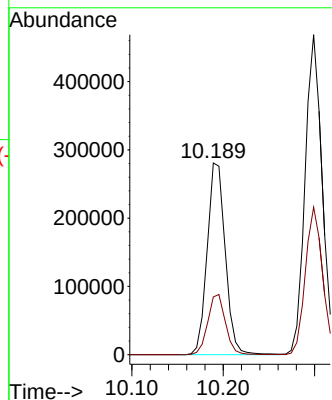
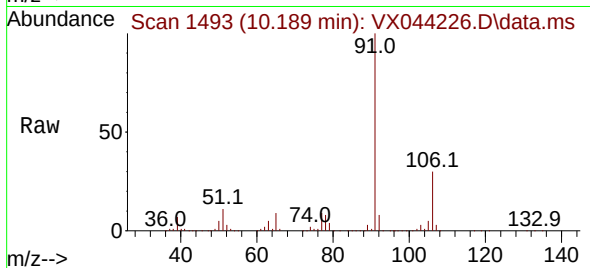
ICVVX121124

Tgt Ion: 91 Resp: 385605

Ion Ratio Lower Upper

91 100

106 30.1 23.5 35.3



#68

m/p-Xylenes

Concen: 99.896 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX044226.D

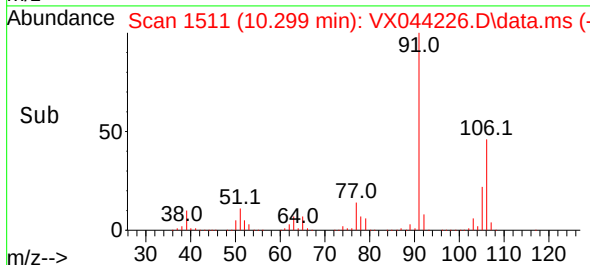
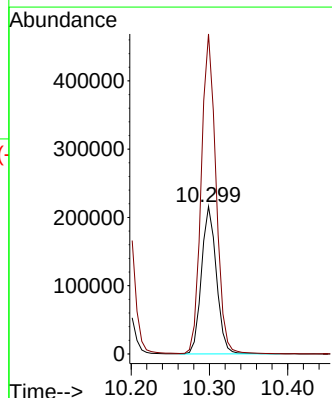
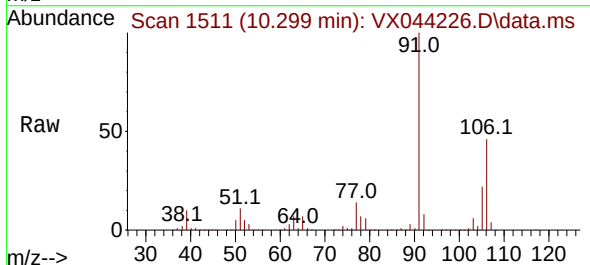
Acq: 11 Dec 2024 13:51

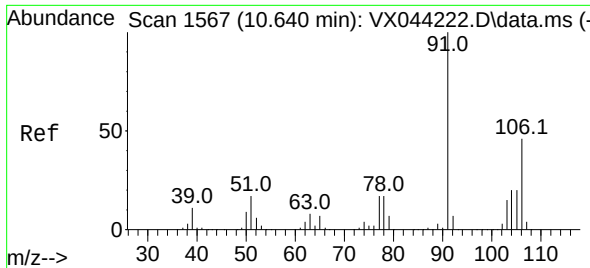
Tgt Ion:106 Resp: 285774

Ion Ratio Lower Upper

106 100

91 214.6 170.2 255.2

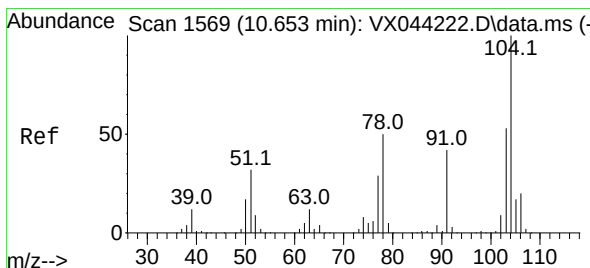
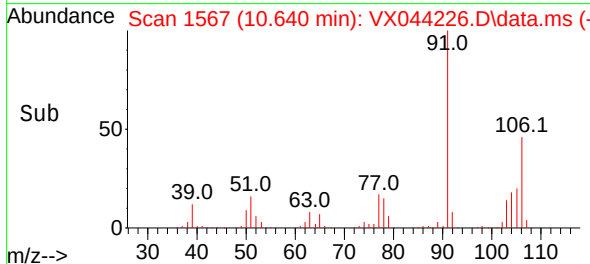
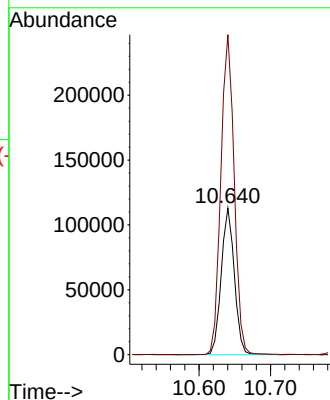
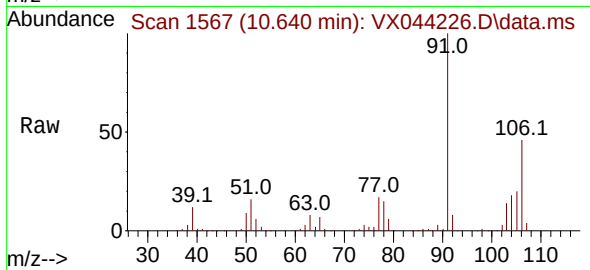




#69
o-Xylene
Concen: 49.750 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

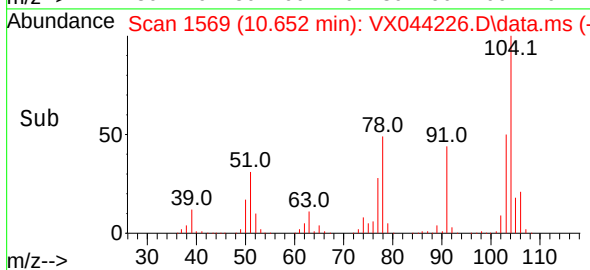
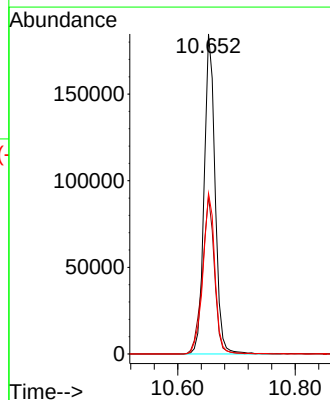
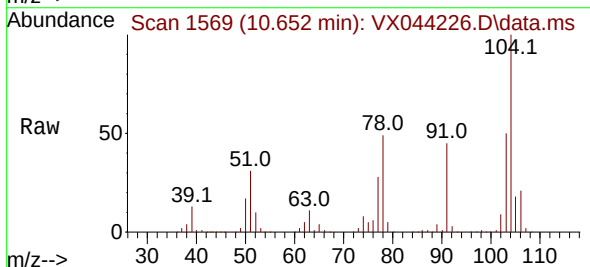
Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

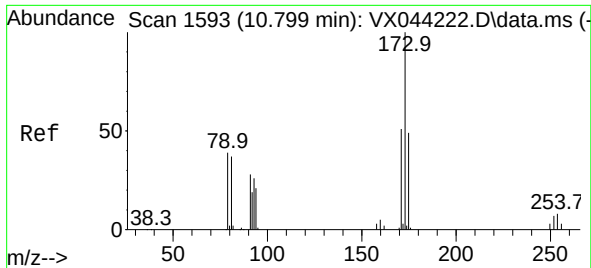
Tgt Ion:106 Resp: 144001
Ion Ratio Lower Upper
106 100
91 221.9 112.3 337.0



#70
Styrene
Concen: 51.617 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:104 Resp: 239508
Ion Ratio Lower Upper
104 100
78 54.5 44.6 67.0
103 54.9 45.4 68.0

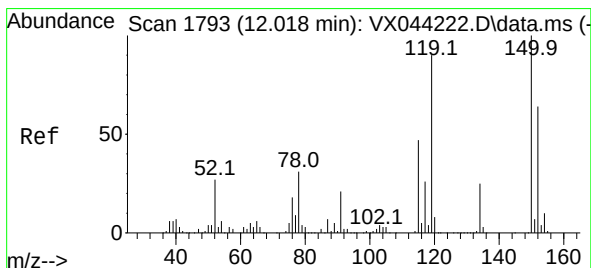
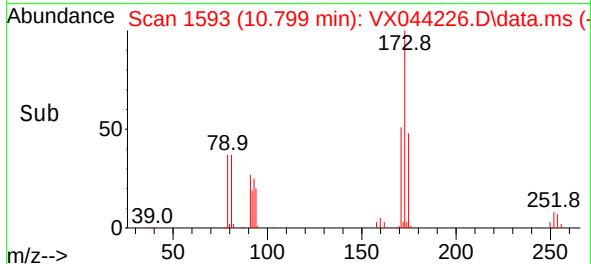
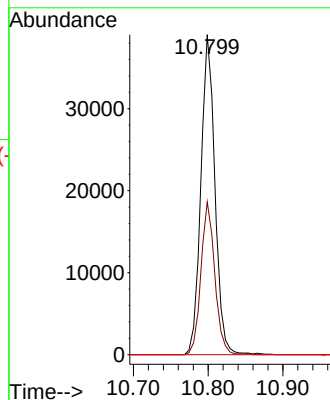
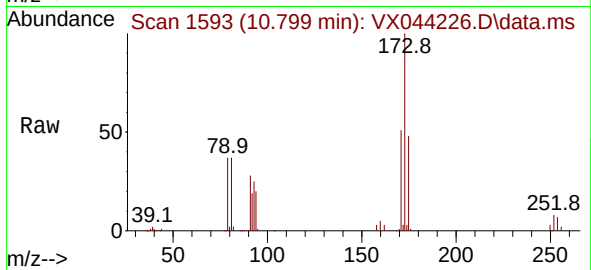




#71
Bromoform
Concen: 50.269 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

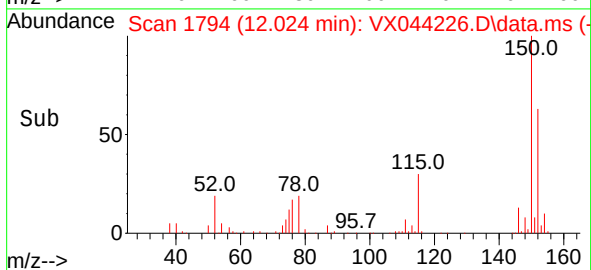
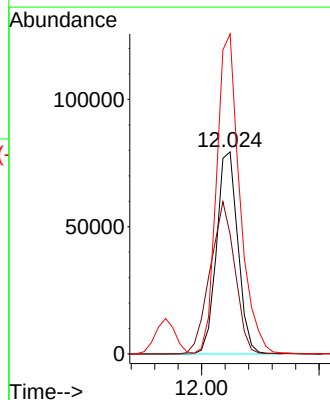
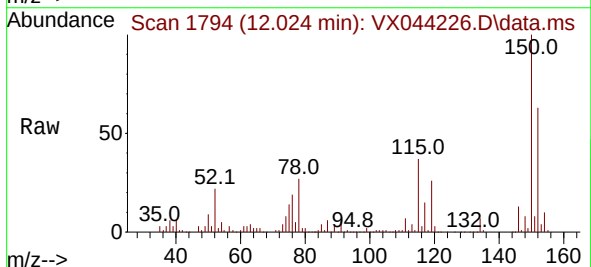
Instrument :
MSVOA_X
ClientSampleId :
ICVX121124

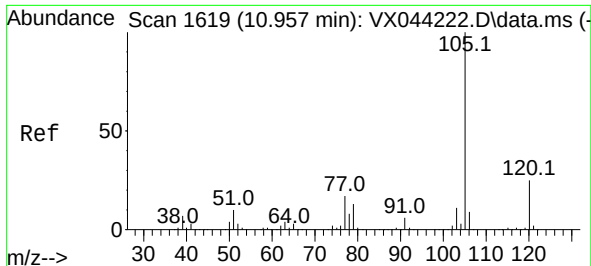
Tgt Ion:173 Resp: 50972
Ion Ratio Lower Upper
173 100
175 47.1 23.8 71.4
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:152 Resp: 99879
Ion Ratio Lower Upper
152 100
115 87.8 44.5 133.3
150 172.2 0.0 353.8

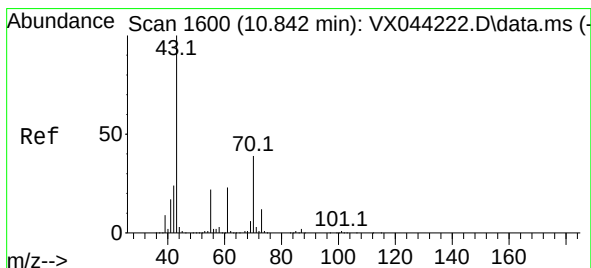
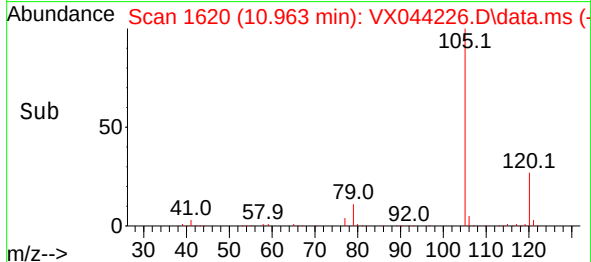
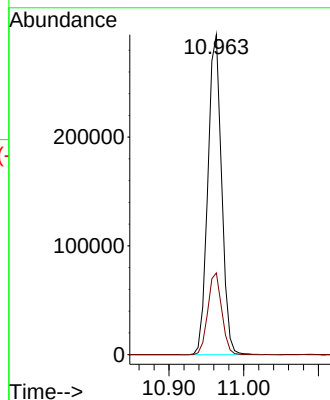
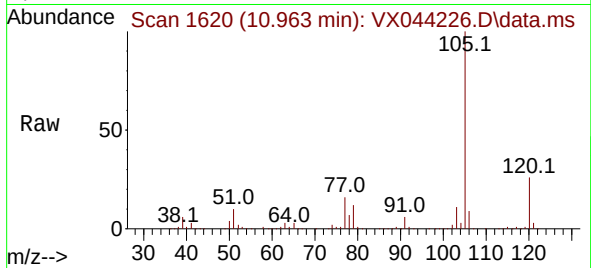




#73
Isopropylbenzene
Concen: 49.014 ug/l
RT: 10.963 min Scan# 1619
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

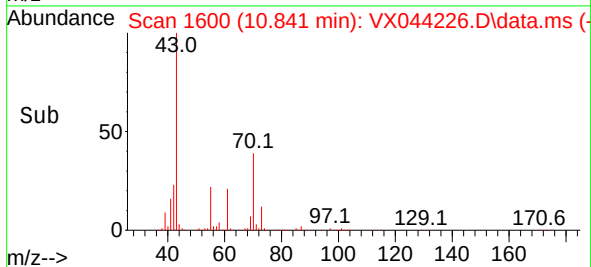
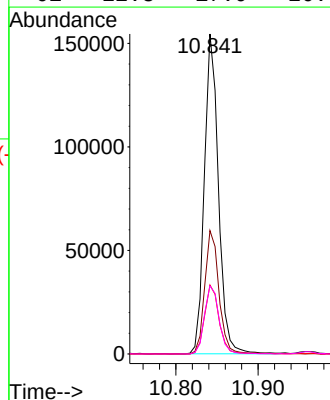
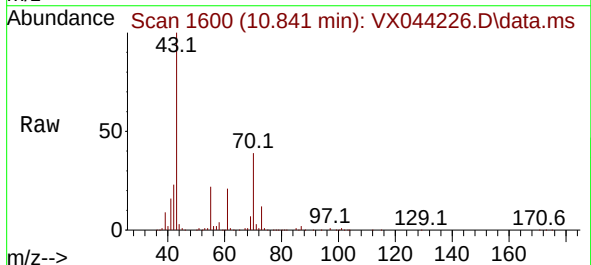
Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

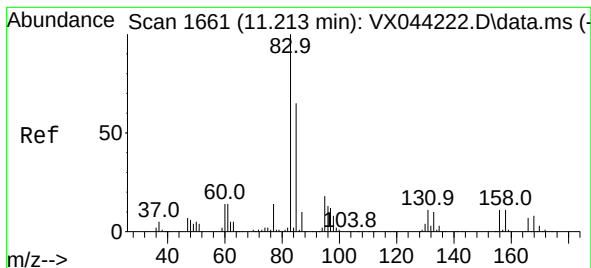
Tgt Ion:105 Resp: 374769
Ion Ratio Lower Upper
105 100
120 25.9 13.1 39.3



#74
N-ethyl acetate
Concen: 52.003 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 183763
Ion Ratio Lower Upper
43 100
70 39.0 31.9 47.9
55 22.4 17.9 26.9
61 22.3 17.9 26.9

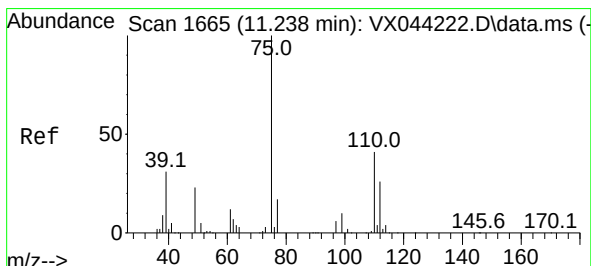
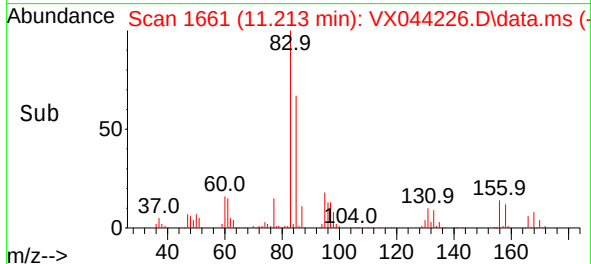
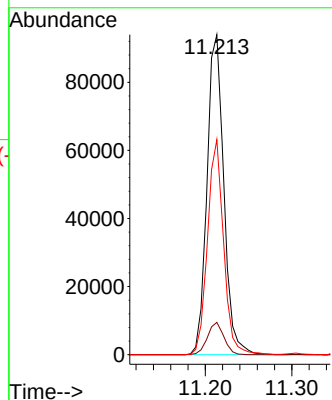
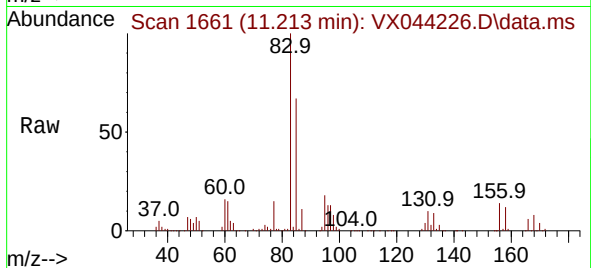




#75
1,1,2,2-Tetrachloroethane
Concen: 47.676 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

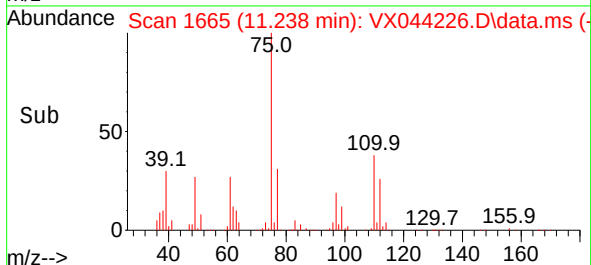
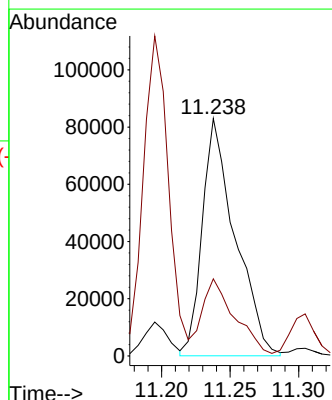
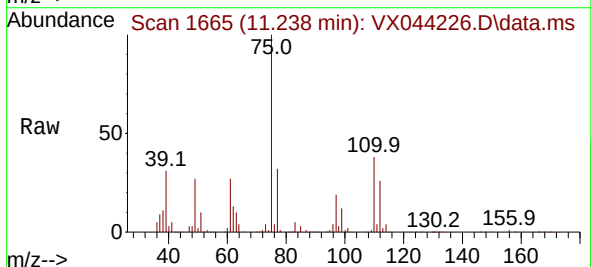
Instrument :
MSVOA_X
ClientSampleId :
ICVX121124

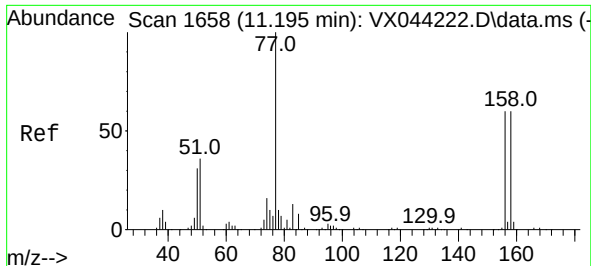
Tgt Ion: 83 Resp: 126615
Ion Ratio Lower Upper
83 100
131 9.9 5.1 15.4
85 64.4 32.5 97.4



#76
1,2,3-Trichloropropane
Concen: 62.060 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 138398
Ion Ratio Lower Upper
75 100
77 32.5 20.9 62.7

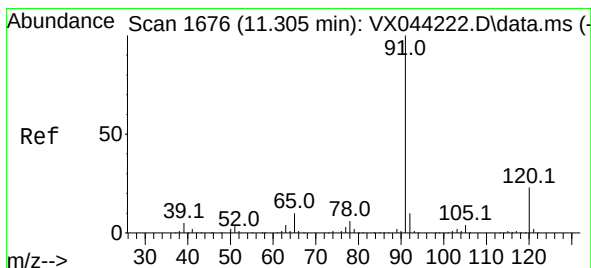
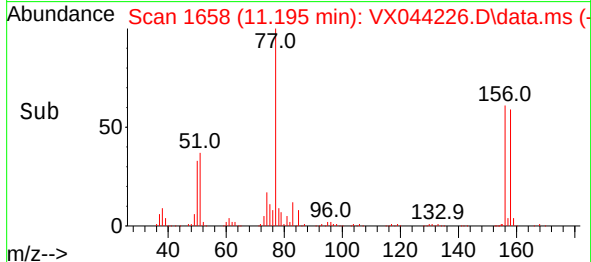
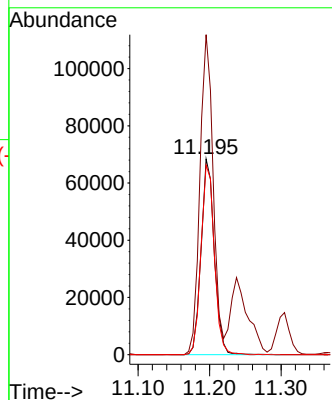
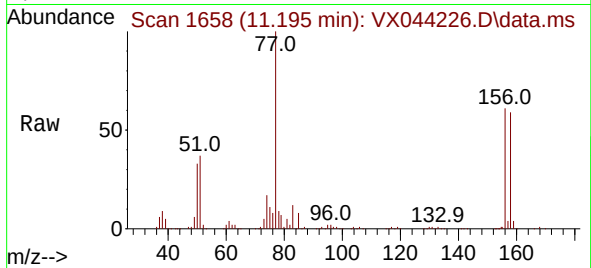




#77
Bromobenzene
Concen: 47.335 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

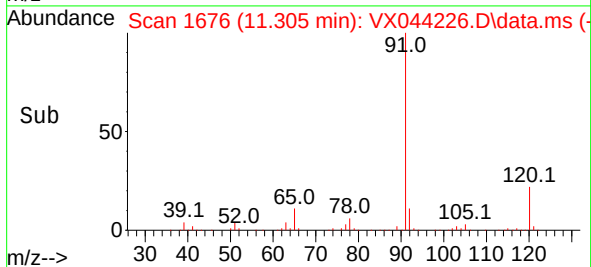
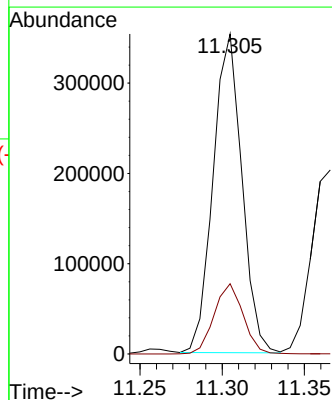
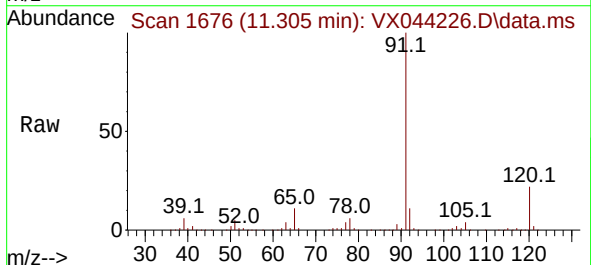
Instrument :
MSVOA_X
ClientSampleId :
ICVX121124

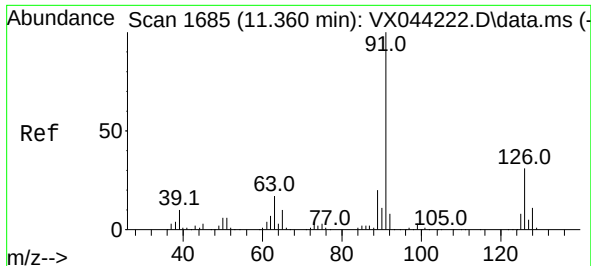
Tgt Ion:156 Resp: 87767
Ion Ratio Lower Upper
156 100
77 163.4 82.6 247.8
158 98.0 48.8 146.4



#78
n-propylbenzene
Concen: 50.816 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 91 Resp: 429443
Ion Ratio Lower Upper
91 100
120 22.3 11.0 33.0





#79

2-Chlorotoluene

Concen: 47.546 ug/l

RT: 11.366 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

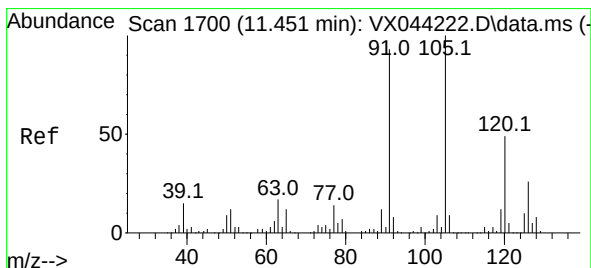
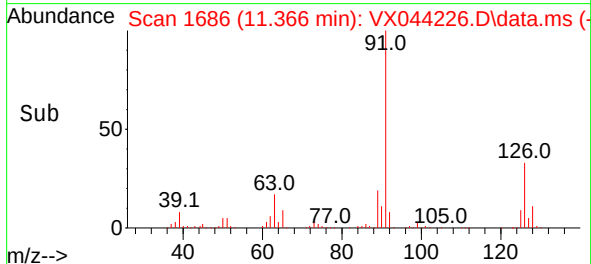
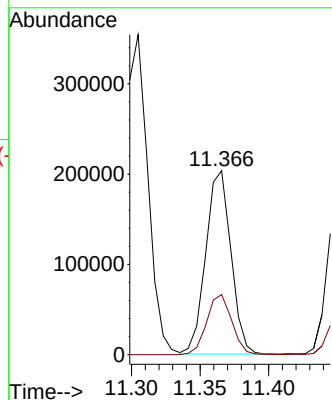
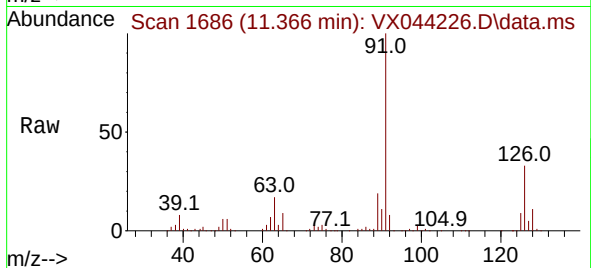
ICVVX121124

Tgt Ion: 91 Resp: 259860

Ion Ratio Lower Upper

91 100

126 32.7 16.4 49.1



#80

1,3,5-Trimethylbenzene

Concen: 49.431 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX044226.D

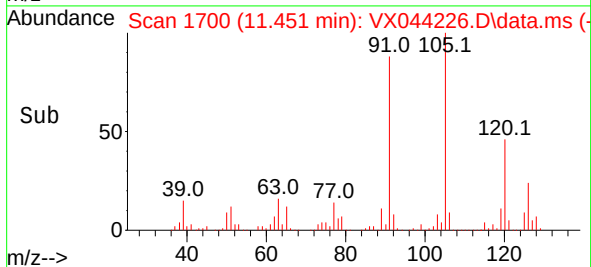
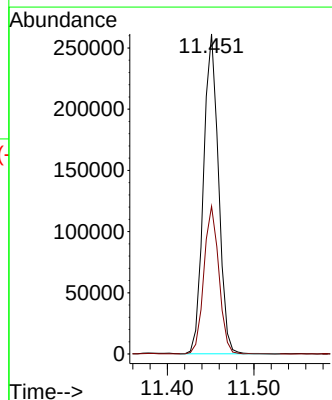
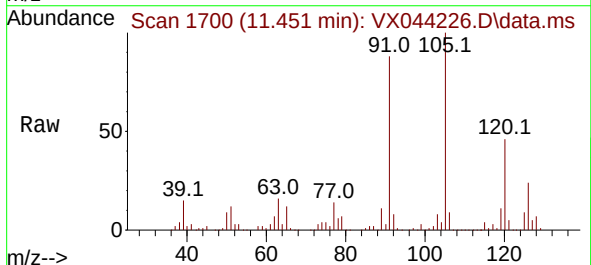
Acq: 11 Dec 2024 13:51

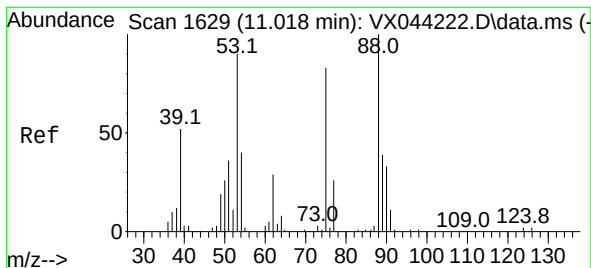
Tgt Ion:105 Resp: 313435

Ion Ratio Lower Upper

105 100

120 46.2 23.8 71.4

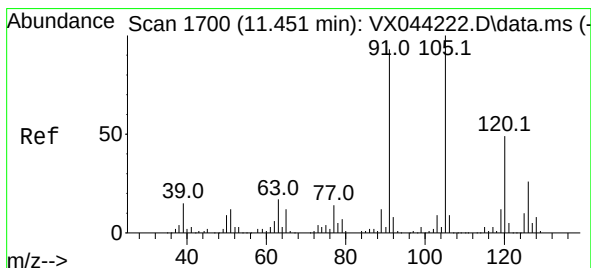
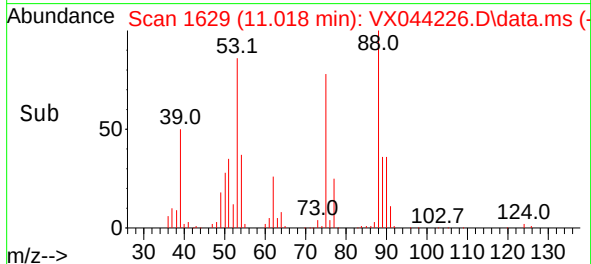
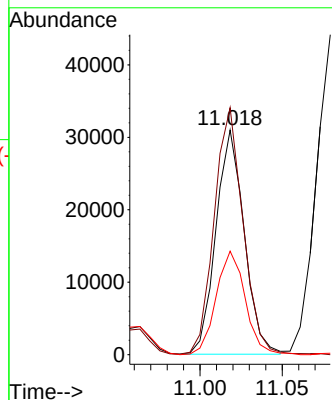
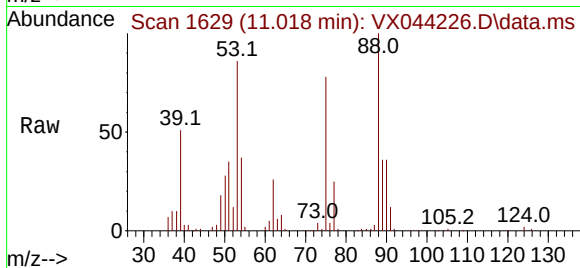




#81
trans-1,4-Dichloro-2-butene
Concen: 47.861 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

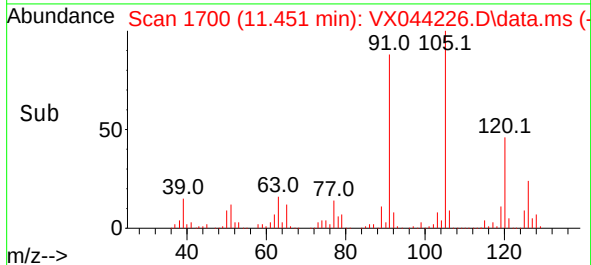
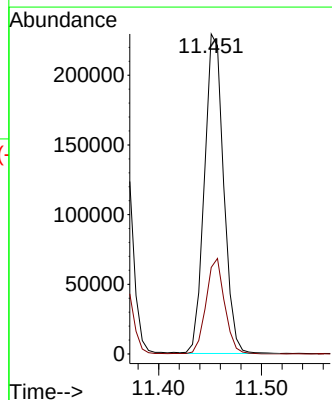
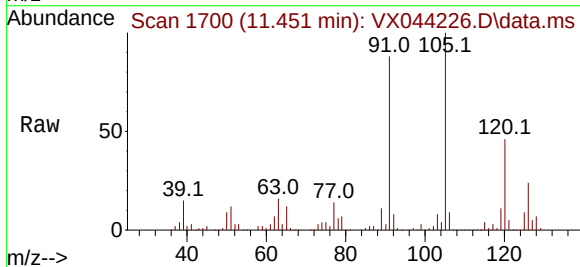
Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

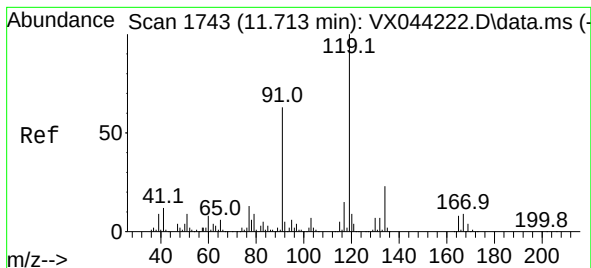
Tgt Ion:	75	Resp:	37038
Ion	Ratio	Lower	Upper
75	100		
53	112.6	93.6	140.4
89	47.5	37.3	55.9



#82
4-Chlorotoluene
Concen: 49.178 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:	91	Resp:	297641
Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.5	43.5





#83

tert-Butylbenzene

Concen: 49.384 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

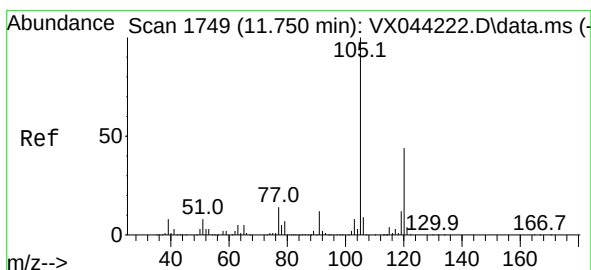
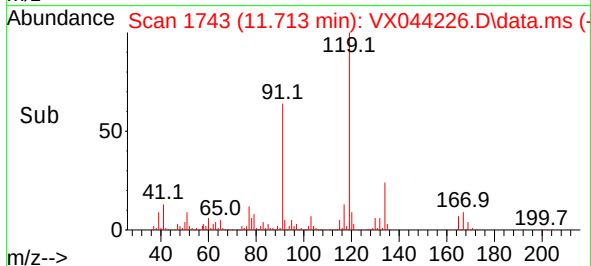
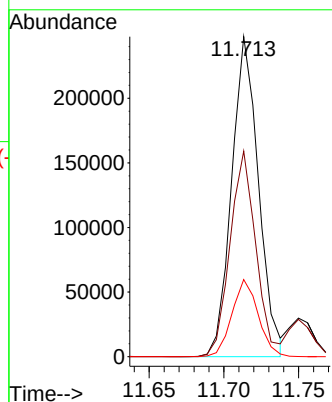
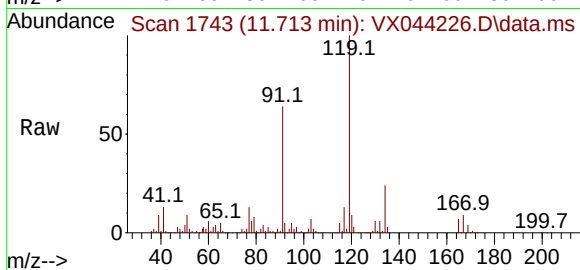
Tgt Ion:119 Resp: 309463

Ion Ratio Lower Upper

119 100

91 62.1 30.9 92.5

134 23.6 11.5 34.4



#84

1,2,4-Trimethylbenzene

Concen: 50.333 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX044226.D

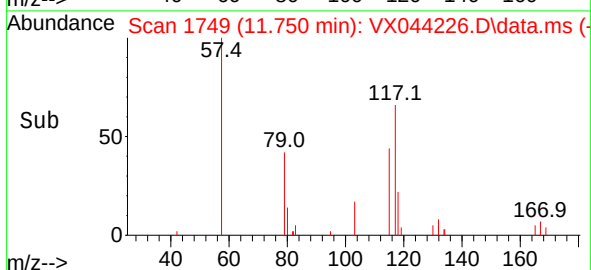
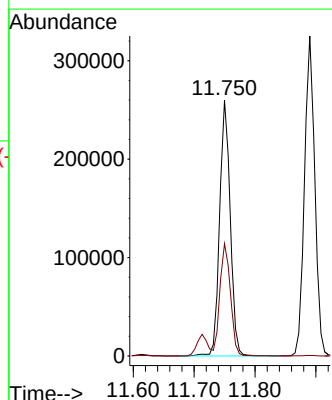
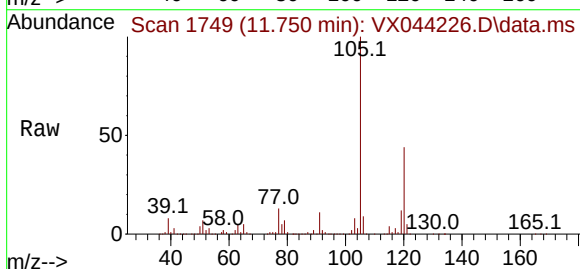
Acq: 11 Dec 2024 13:51

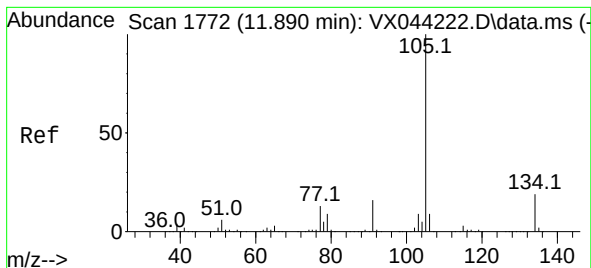
Tgt Ion:105 Resp: 313433

Ion Ratio Lower Upper

105 100

120 43.3 21.7 65.1

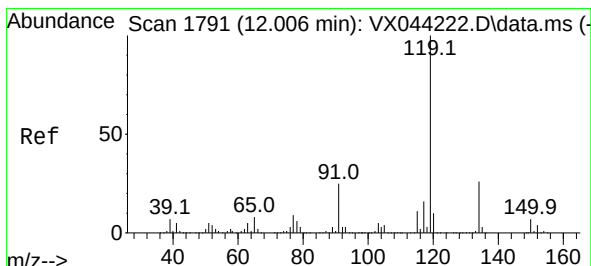
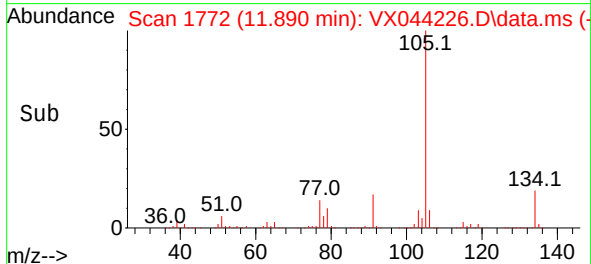
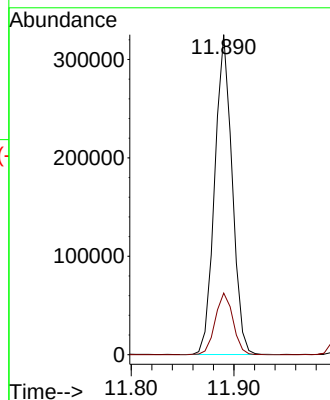
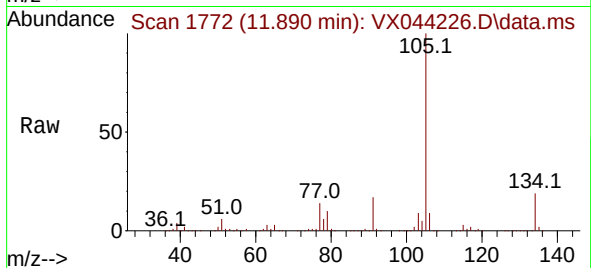




#85
sec-Butylbenzene
Concen: 50.097 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

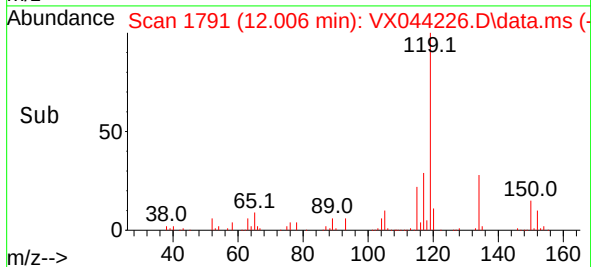
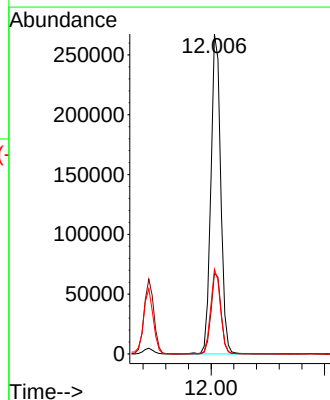
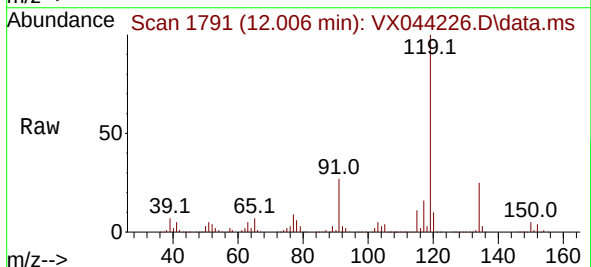
Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

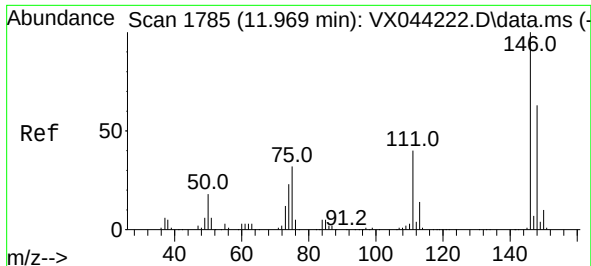
Tgt Ion:105 Resp: 381109
Ion Ratio Lower Upper
105 100
134 19.8 9.8 29.4



#86
p-Isopropyltoluene
Concen: 50.678 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:119 Resp: 320882
Ion Ratio Lower Upper
119 100
134 25.7 12.8 38.4
91 26.3 13.0 39.0





#87

1,3-Dichlorobenzene

Concen: 49.122 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

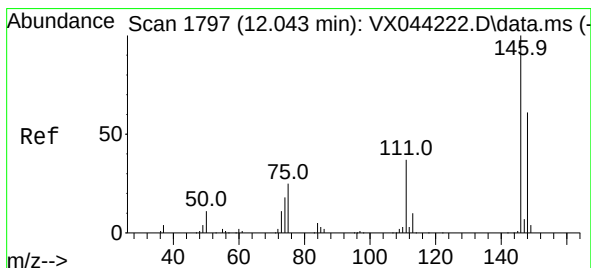
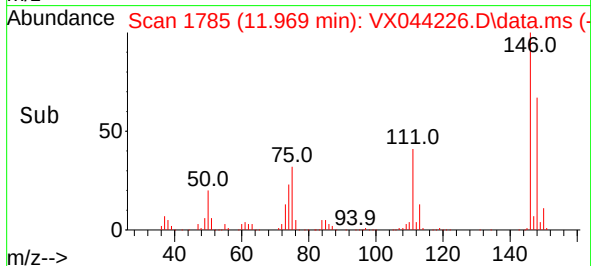
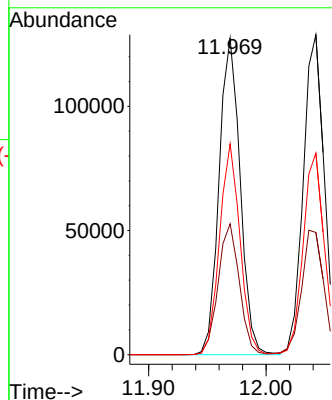
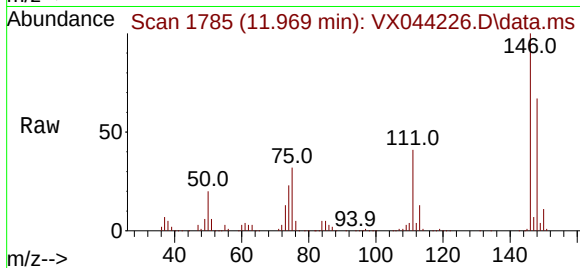
Tgt Ion:146 Resp: 159094

Ion Ratio Lower Upper

146 100

111 41.6 21.4 64.2

148 64.7 31.7 95.1



#88

1,4-Dichlorobenzene

Concen: 48.280 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

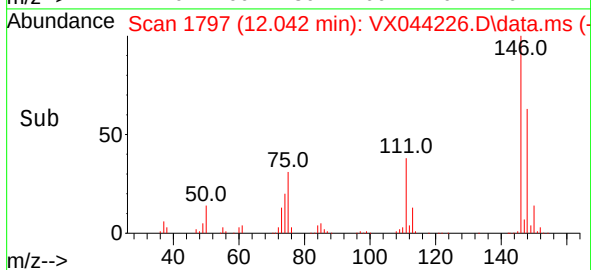
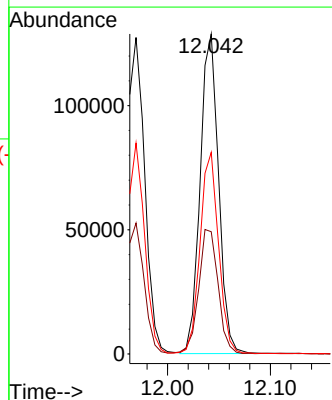
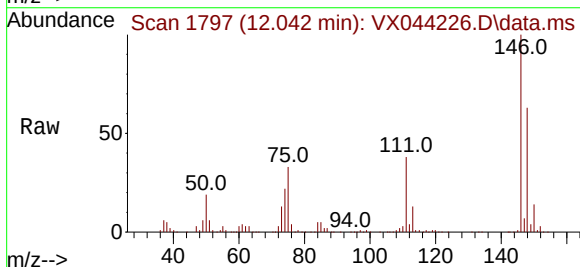
Tgt Ion:146 Resp: 160742

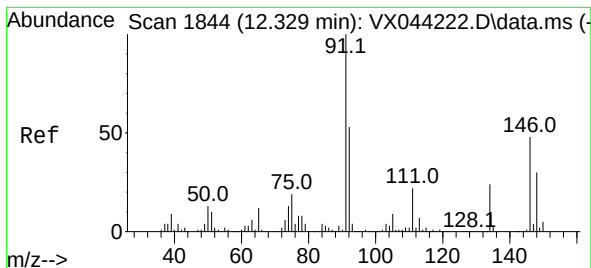
Ion Ratio Lower Upper

146 100

111 41.1 21.0 63.0

148 63.6 32.3 96.8





#89

n-Butylbenzene

Concen: 53.207 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

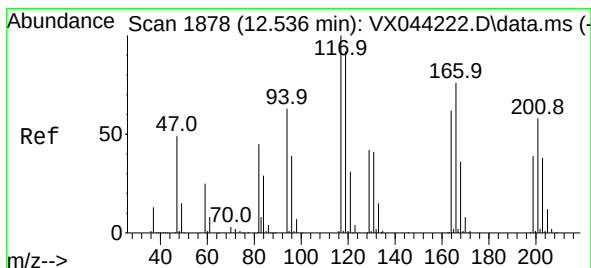
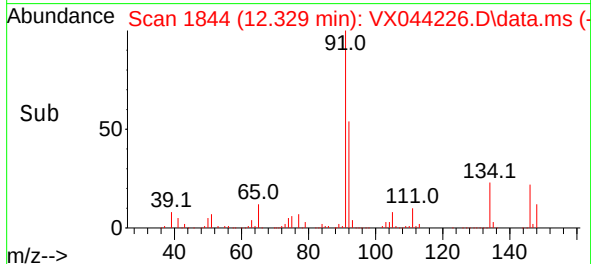
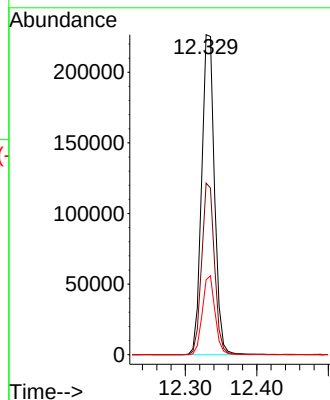
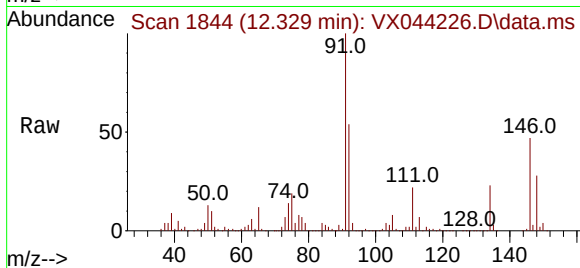
Tgt Ion: 91 Resp: 283284

Ion Ratio Lower Upper

91 100

92 53.6 26.6 79.7

134 24.3 12.6 37.8



#90

Hexachloroethane

Concen: 52.727 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX044226.D

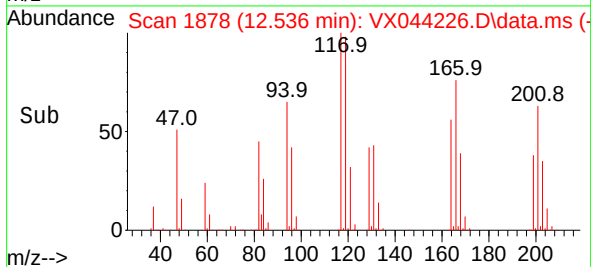
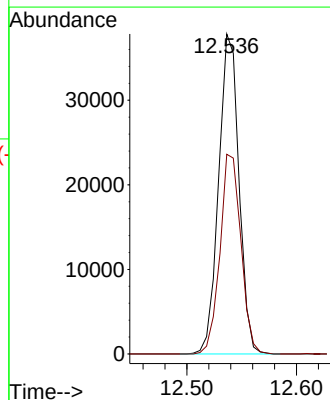
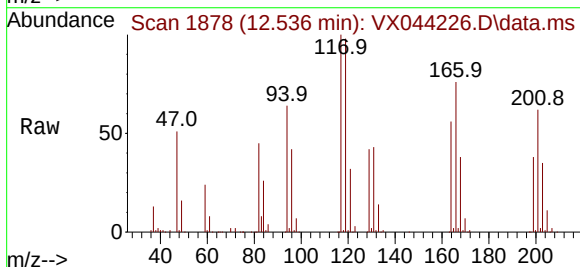
Acq: 11 Dec 2024 13:51

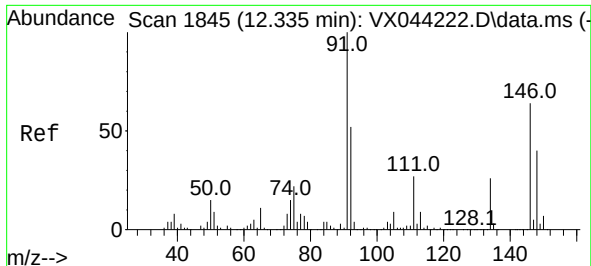
Tgt Ion: 117 Resp: 48734

Ion Ratio Lower Upper

117 100

201 64.3 31.4 94.2

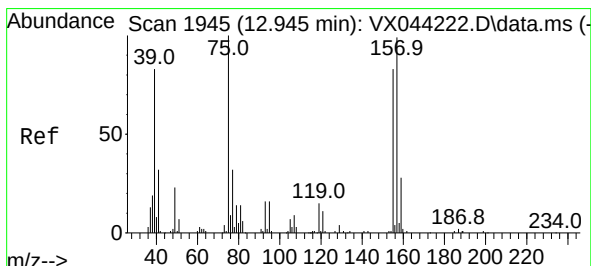
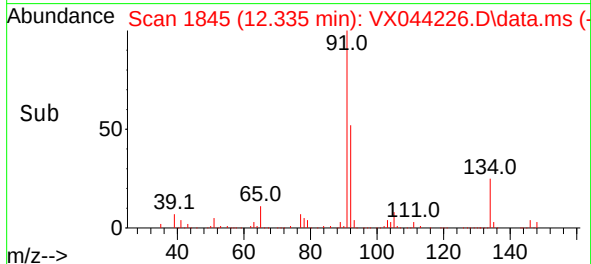
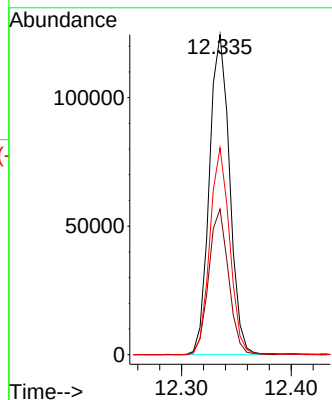
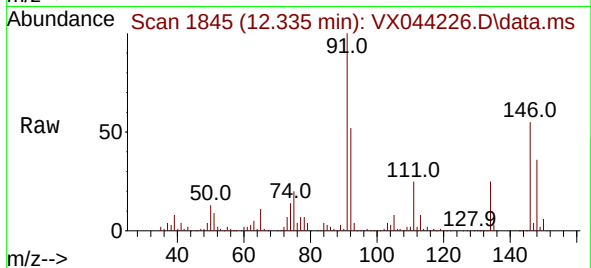




#91
1,2-Dichlorobenzene
Concen: 47.589 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

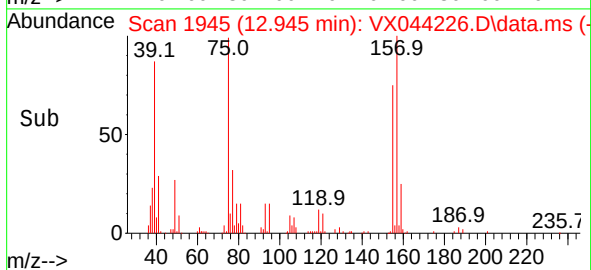
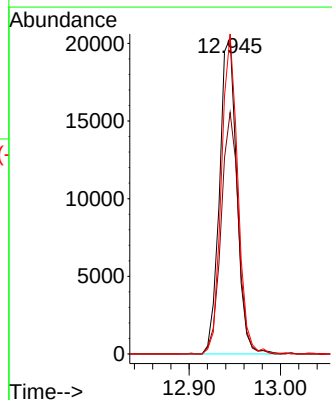
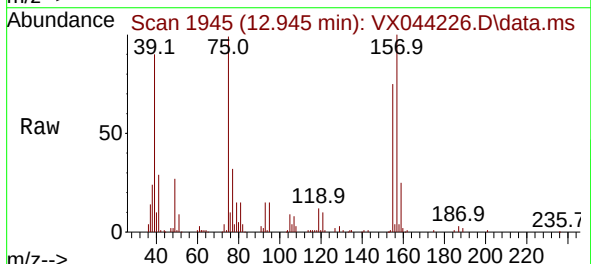
Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

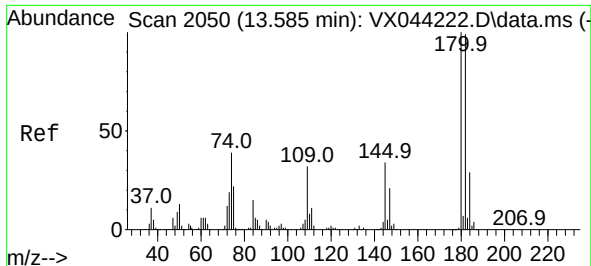
Tgt Ion:146 Resp: 160039
Ion Ratio Lower Upper
146 100
111 44.4 21.4 64.3
148 63.4 31.6 95.0



#92
1,2-Dibromo-3-Chloropropane
Concen: 51.864 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 26738
Ion Ratio Lower Upper
75 100
155 76.5 38.1 114.3
157 96.3 47.2 141.6





#93

1,2,4-Trichlorobenzene

Concen: 53.940 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

Instrument :

MSVOA_X

ClientSampleId :

ICVX121124

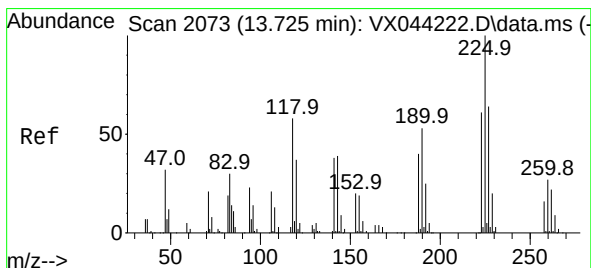
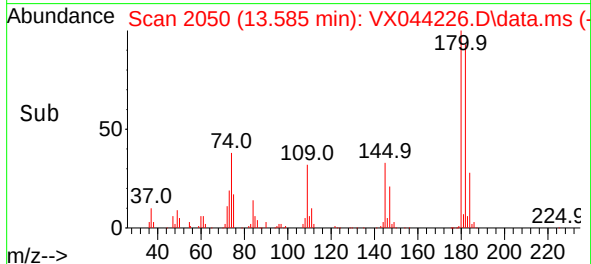
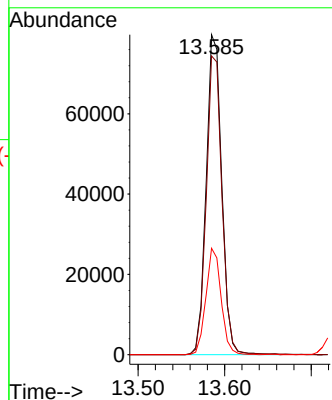
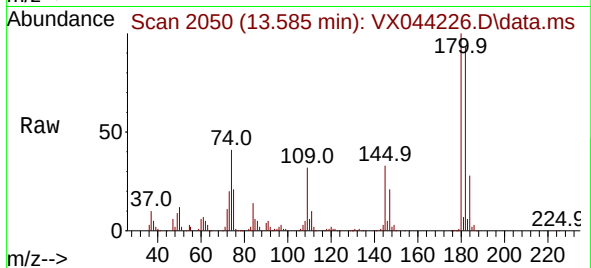
Tgt Ion:180 Resp: 99449

Ion Ratio Lower Upper

180 100

182 94.3 48.0 144.2

145 32.6 16.6 49.7



#94

Hexachlorobutadiene

Concen: 50.770 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. -0.000 min

Lab File: VX044226.D

Acq: 11 Dec 2024 13:51

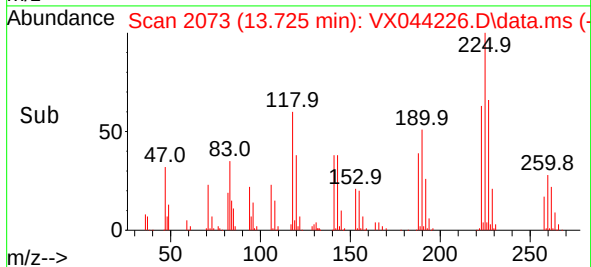
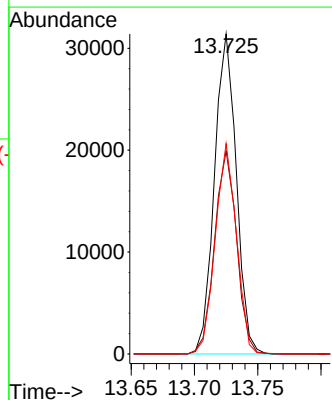
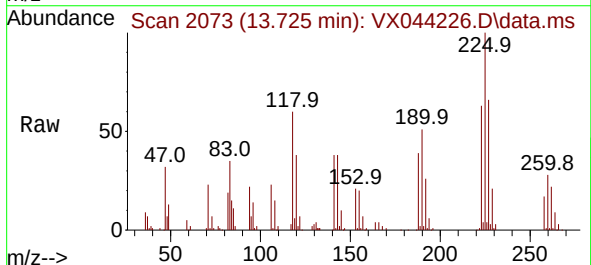
Tgt Ion:225 Resp: 37651

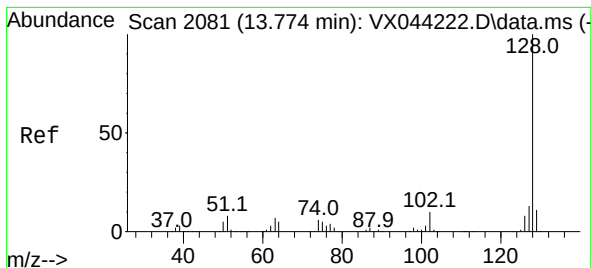
Ion Ratio Lower Upper

225 100

223 63.9 30.8 92.4

227 63.7 32.1 96.3

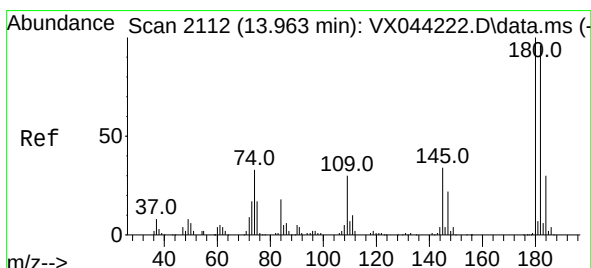
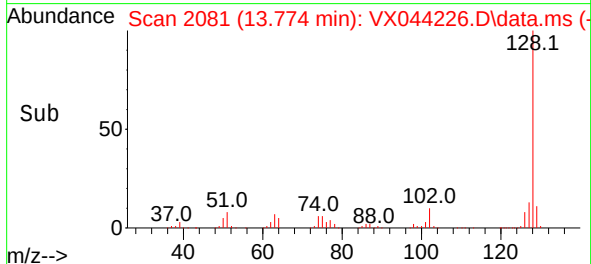
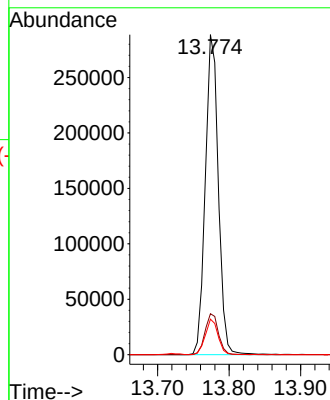
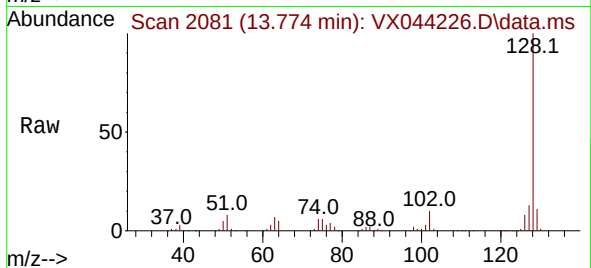




#95
Naphthalene
Concen: 50.827 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

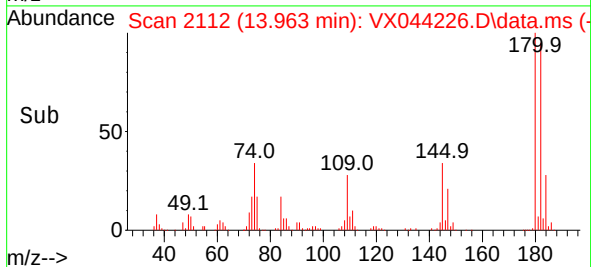
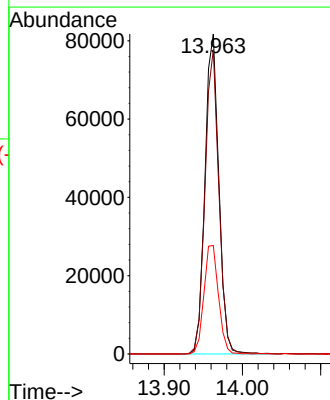
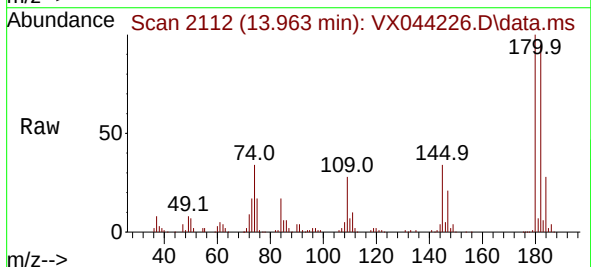
Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:128	Resp: 365781
Ion Ratio	Lower Upper
128	100
127	13.2 10.5 15.7
129	10.9 9.0 13.4



#96
1,2,3-Trichlorobenzene
Concen: 51.244 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:180	Resp: 100209
Ion Ratio	Lower Upper
180	100
182	95.2 48.0 144.0
145	35.7 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
 Data File : VX044438.D
 Acq On : 20 Dec 2024 09:16
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:28:14 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	136445	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	226018	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	197543	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	95339	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	114063	47.679	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 95.360%			
35) Dibromofluoromethane	5.379	113	88578	56.586	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 113.180%			
50) Toluene-d8	8.647	98	297779	56.385	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 112.780%			
62) 4-Bromofluorobenzene	11.079	95	102676	55.640	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 111.280%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	116500	55.219	ug/l	95
3) Chloromethane	1.294	50	106640	52.856	ug/l	99
4) Vinyl Chloride	1.374	62	108930	51.825	ug/l	96
5) Bromomethane	1.593	94	72530	48.640	ug/l	100
6) Chloroethane	1.666	64	64589	49.350	ug/l	100
7) Trichlorofluoromethane	1.867	101	202222	49.144	ug/l	98
8) Diethyl Ether	2.136	74	65414	46.573	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	92304	55.436	ug/l	97
10) Methyl Iodide	2.441	142	117927	53.737	ug/l	96
11) Tert butyl alcohol	2.995	59	69873	207.237	ug/l	99
12) 1,1-Dichloroethene	2.306	96	85110	55.650	ug/l	93
13) Acrolein	2.239	56	105437	216.034	ug/l	99
14) Allyl chloride	2.654	41	131432	51.595	ug/l	96
15) Acrylonitrile	3.069	53	228880	245.064	ug/l	99
16) Acetone	2.386	43	198245	203.262	ug/l	97
17) Carbon Disulfide	2.502	76	150886	51.902	ug/l	100
18) Methyl Acetate	2.703	43	122242	48.611	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	285547	47.845	ug/l	98
20) Methylene Chloride	2.782	84	94061	51.347	ug/l	96
21) trans-1,2-Dichloroethene	3.081	96	85292	52.474	ug/l	96
22) Diisopropyl ether	3.764	45	281255	49.031	ug/l	95
23) Vinyl Acetate	3.721	43	1209209	259.287	ug/l	99
24) 1,1-Dichloroethane	3.605	63	164103	51.322	ug/l	98
25) 2-Butanone	4.562	43	312065	225.066	ug/l	97
26) 2,2-Dichloropropane	4.471	77	135023	51.979	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	103072	49.931	ug/l	97
28) Bromochloromethane	4.891	49	75463	48.128	ug/l	100
29) Tetrahydrofuran	5.001	42	202559	227.599	ug/l	99
30) Chloroform	5.086	83	172568	48.035	ug/l	98
31) Cyclohexane	5.458	56	136432	52.839	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	149993	50.298	ug/l	99
36) 1,1-Dichloropropene	5.684	75	111706	55.205	ug/l	98
37) Ethyl Acetate	4.715	43	125607	50.217	ug/l	99
38) Carbon Tetrachloride	5.672	117	120478	55.304	ug/l	96
39) Methylcyclohexane	7.373	83	146379	60.512	ug/l	97
40) Benzene	6.031	78	345635	56.259	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
 Data File : VX044438.D
 Acq On : 20 Dec 2024 09:16
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:28:14 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	66821	50.310	ug/l	96
42) 1,2-Dichloroethane	6.080	62	132516	52.362	ug/l	97
43) Isopropyl Acetate	6.342	43	199677	51.076	ug/l	98
44) Trichloroethene	7.117	130	87763	57.285	ug/l	98
45) 1,2-Dichloropropane	7.427	63	83393	53.131	ug/l	98
46) Dibromomethane	7.580	93	67796	55.676	ug/l	95
47) Bromodichloromethane	7.818	83	118614	56.402	ug/l	100
48) Methyl methacrylate	7.690	41	94040	49.554	ug/l	95
49) 1,4-Dioxane	7.665	88	28510	906.120	ug/l #	82
51) 4-Methyl-2-Pentanone	8.574	43	647258	257.494	ug/l	99
52) Toluene	8.714	92	208798	54.120	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	116841	51.640	ug/l	95
54) cis-1,3-Dichloropropene	8.360	75	130320	56.913	ug/l	97
55) 1,1,2-Trichloroethane	9.147	97	84487	55.124	ug/l	98
56) Ethyl methacrylate	9.116	69	130175	53.800	ug/l	98
57) 1,3-Dichloropropane	9.305	76	143590	53.824	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	307620	252.070	ug/l	99
59) 2-Hexanone	9.427	43	467347	256.860	ug/l	97
60) Dibromochloromethane	9.519	129	86207	52.901	ug/l	99
61) 1,2-Dibromoethane	9.604	107	86930	55.721	ug/l	99
64) Tetrachloroethene	9.269	164	74735	57.001	ug/l	96
65) Chlorobenzene	10.079	112	234513	55.402	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	77487	56.959	ug/l	98
67) Ethyl Benzene	10.189	91	401792	54.936	ug/l	99
68) m/p-Xylenes	10.299	106	308013	114.771	ug/l	94
69) o-Xylene	10.640	106	147688	54.389	ug/l	98
70) Styrene	10.653	104	251875	57.862	ug/l	96
71) Bromoform	10.799	173	52602	54.671	ug/l #	98
73) Isopropylbenzene	10.957	105	390438	53.495	ug/l	100
74) N-amyl acetate	10.842	43	171638	50.885	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	132190	52.145	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	139014	65.305	ug/l	84
77) Bromobenzene	11.195	156	95489	53.953	ug/l	95
78) n-propylbenzene	11.299	91	441589	54.741	ug/l	98
79) 2-Chlorotoluene	11.360	91	267690	51.311	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	322510	53.284	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	35051	47.498	ug/l	98
82) 4-Chlorotoluene	11.451	91	305777	52.929	ug/l	99
83) tert-Butylbenzene	11.713	119	320615	53.600	ug/l	97
84) 1,2,4-Trimethylbenzene	11.750	105	327657	55.123	ug/l	98
85) sec-Butylbenzene	11.890	105	399310	54.989	ug/l	99
86) p-Isopropyltoluene	12.006	119	336593	55.691	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	172628	55.839	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	169778	53.422	ug/l	98
89) n-Butylbenzene	12.329	91	292244	57.503	ug/l	99
90) Hexachloroethane	12.536	117	50629	57.385	ug/l	94
91) 1,2-Dichlorobenzene	12.335	146	173478	54.042	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	24124	49.022	ug/l	90
93) 1,2,4-Trichlorobenzene	13.585	180	104720	59.504	ug/l	100
94) Hexachlorobutadiene	13.725	225	43140	60.942	ug/l	97
95) Naphthalene	13.774	128	369385	53.772	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	108667	58.216	ug/l	99

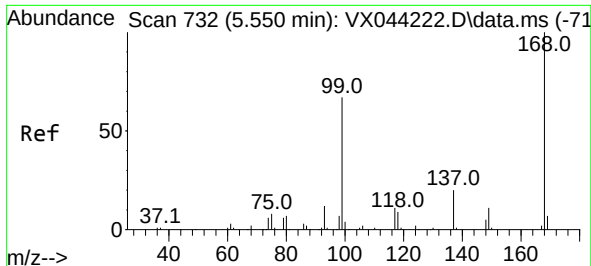
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Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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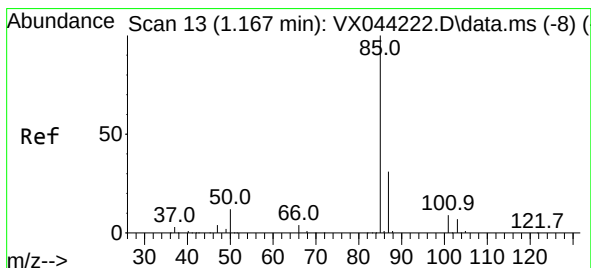
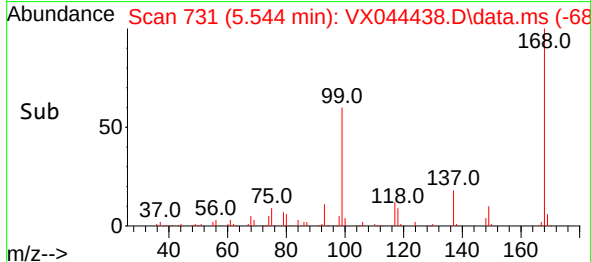
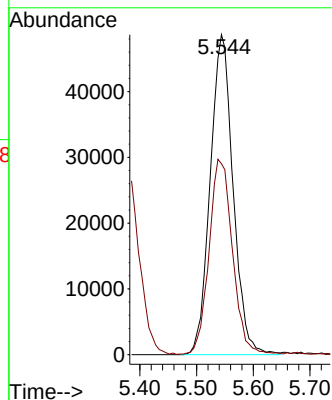
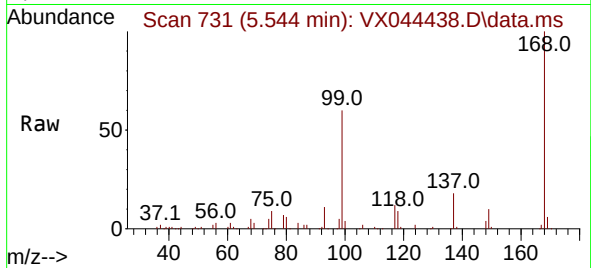
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

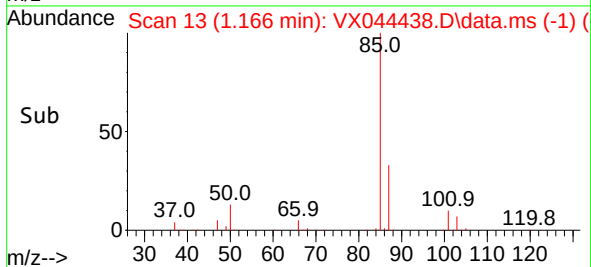
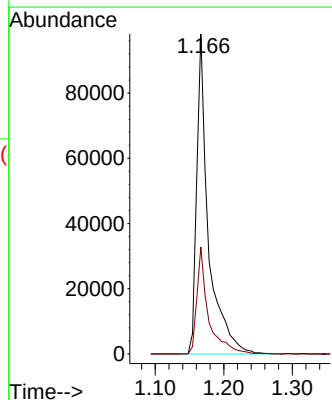
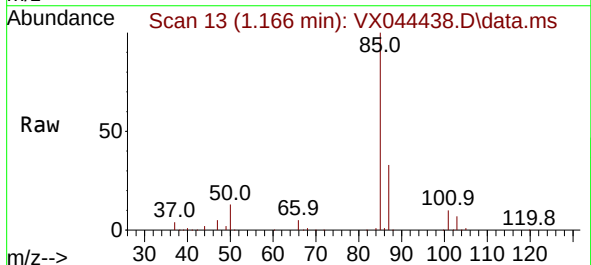
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

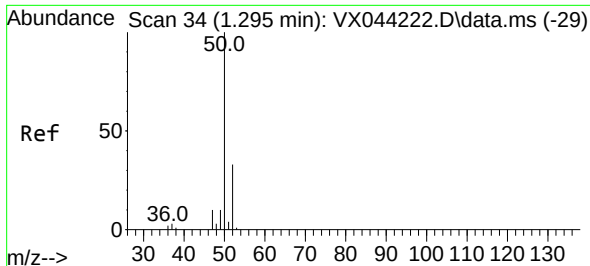
Tgt Ion:168 Resp: 136445
Ion Ratio Lower Upper
168 100
99 59.5 53.4 80.0



#2
Dichlorodifluoromethane
Concen: 55.219 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 85 Resp: 116500
Ion Ratio Lower Upper
85 100
87 33.4 15.4 46.4

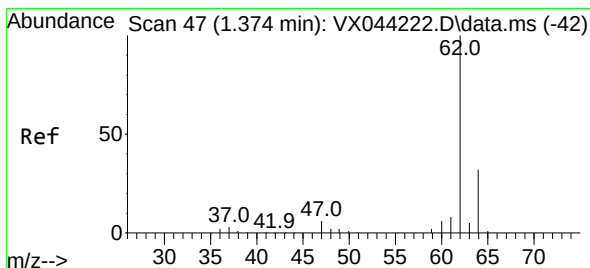
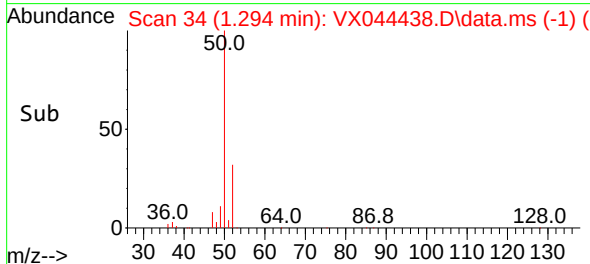
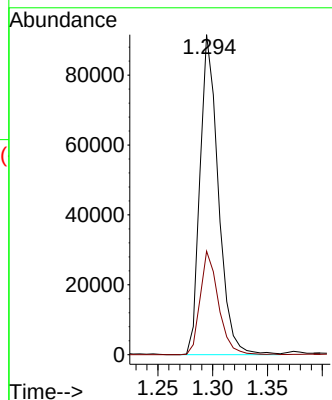
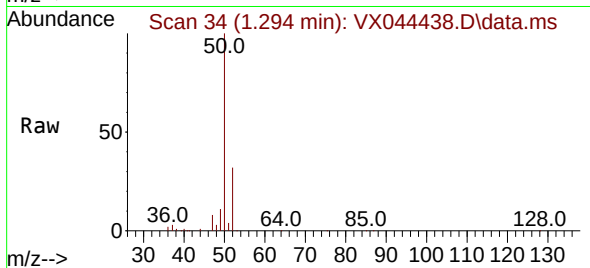




#3
Chloromethane
Concen: 52.856 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

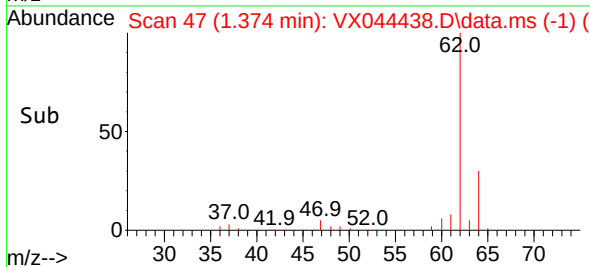
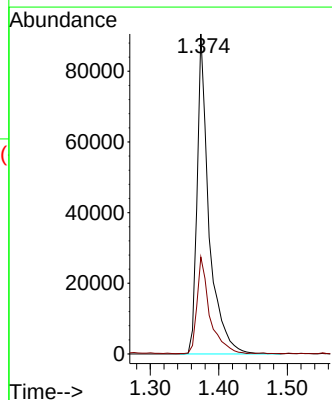
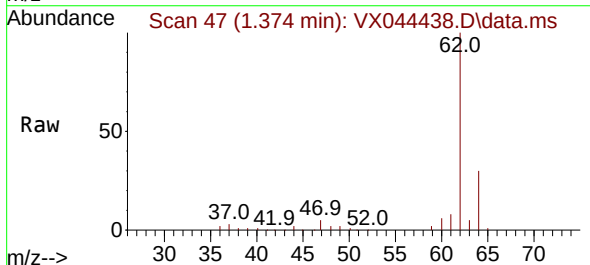
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

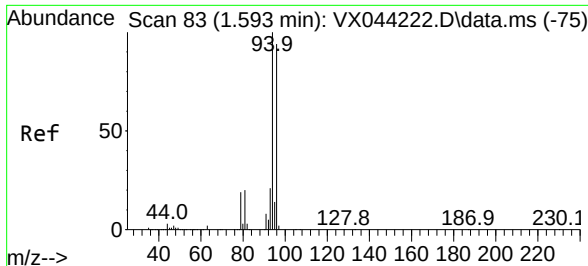
Tgt Ion: 50 Resp: 106640
Ion Ratio Lower Upper
50 100
52 32.3 26.5 39.7



#4
Vinyl Chloride
Concen: 51.825 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 62 Resp: 108930
Ion Ratio Lower Upper
62 100
64 30.1 25.7 38.5

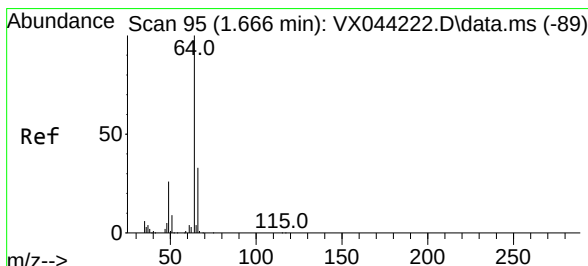
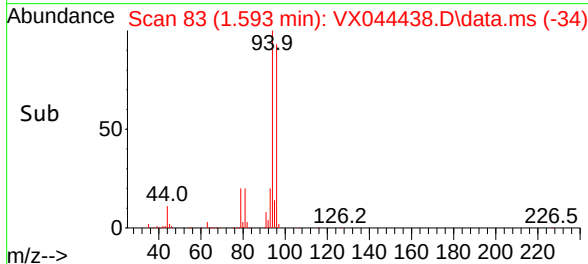
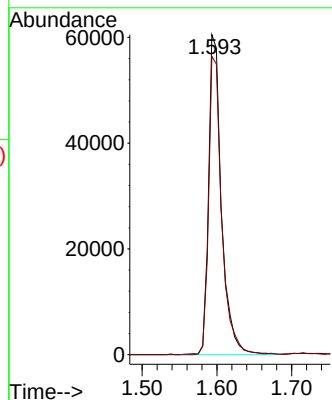
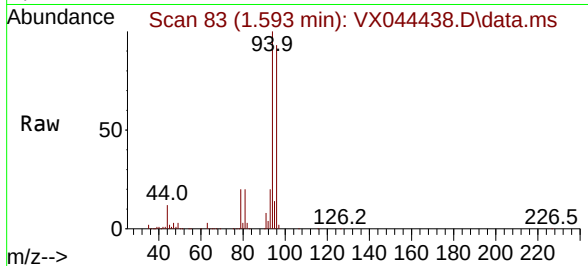




#5
Bromomethane
Concen: 48.640 ug/l
RT: 1.593 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

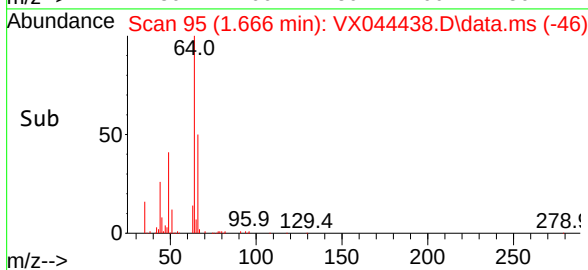
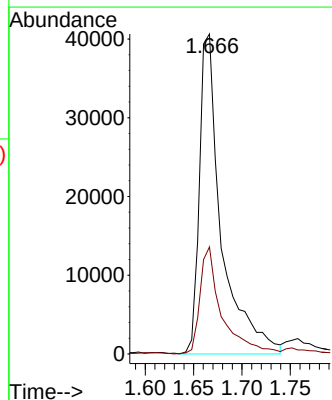
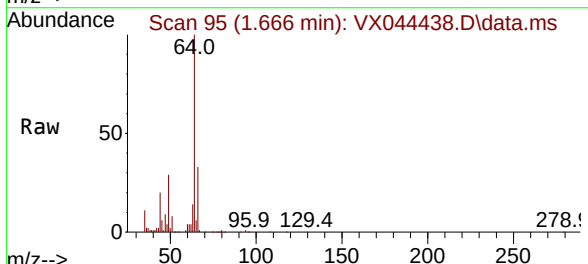
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

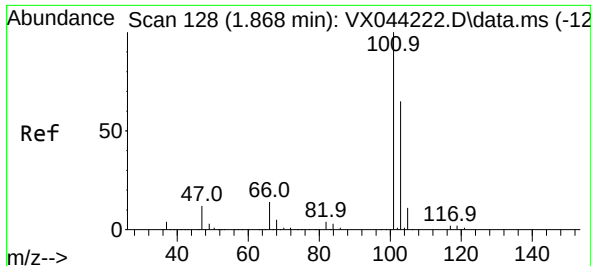
Tgt Ion: 94 Resp: 72530
Ion Ratio Lower Upper
94 100
96 93.2 74.9 112.3



#6
Chloroethane
Concen: 49.350 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 64 Resp: 64589
Ion Ratio Lower Upper
64 100
66 33.3 26.6 39.8

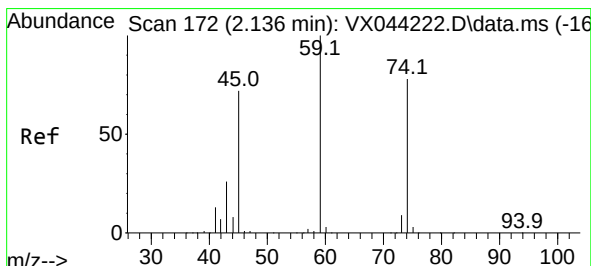
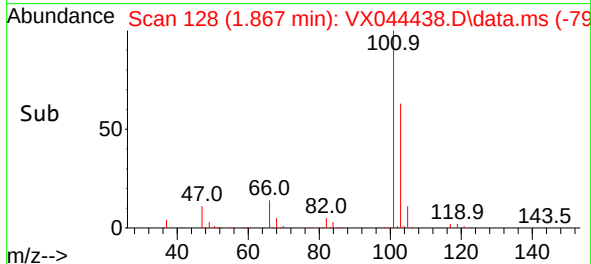
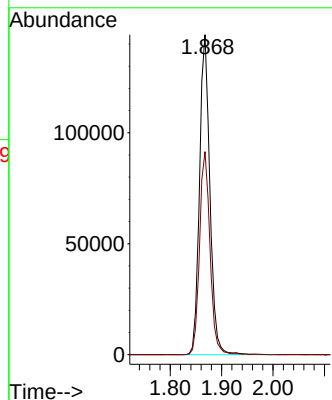
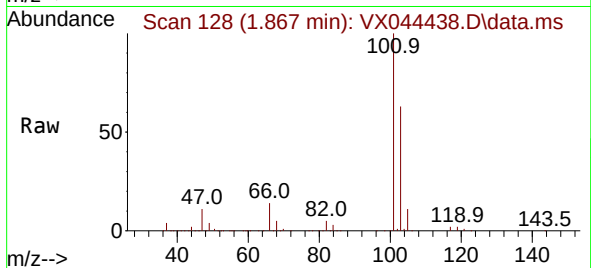




#7
 Trichlorofluoromethane
 Concen: 49.144 ug/l
 RT: 1.867 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX044438.D
 Acq: 20 Dec 2024 09:16

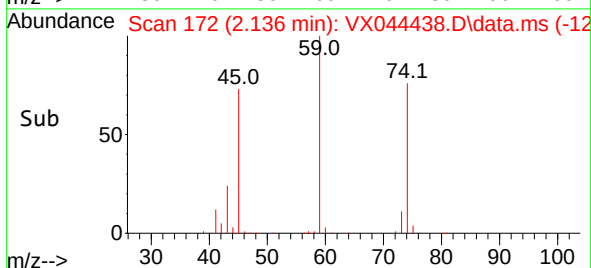
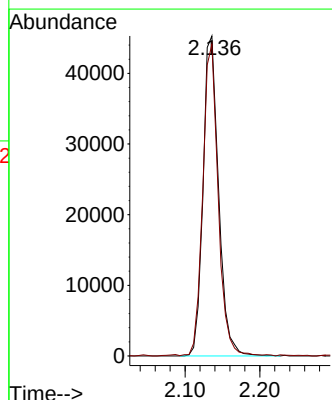
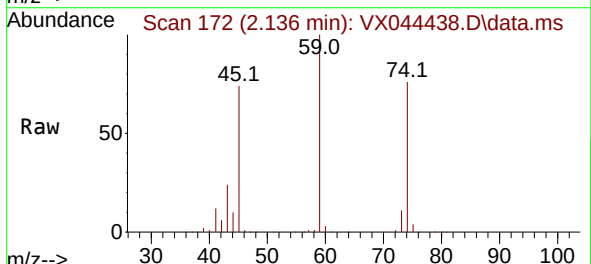
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

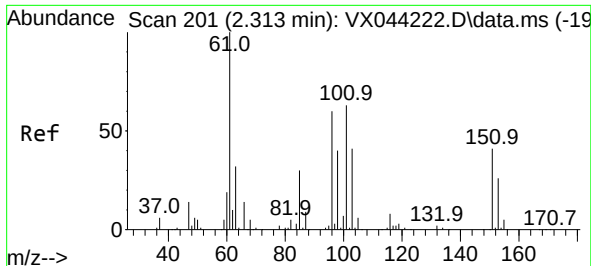
Tgt Ion:101 Resp: 202222
 Ion Ratio Lower Upper
 101 100
 103 63.5 51.8 77.8



#8
 Diethyl Ether
 Concen: 46.573 ug/l
 RT: 2.136 min Scan# 172
 Delta R.T. -0.000 min
 Lab File: VX044438.D
 Acq: 20 Dec 2024 09:16

Tgt Ion: 74 Resp: 65414
 Ion Ratio Lower Upper
 74 100
 45 96.6 48.4 145.0

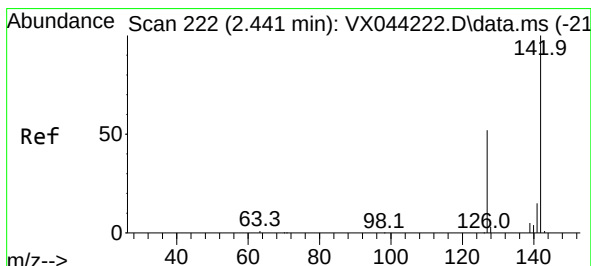
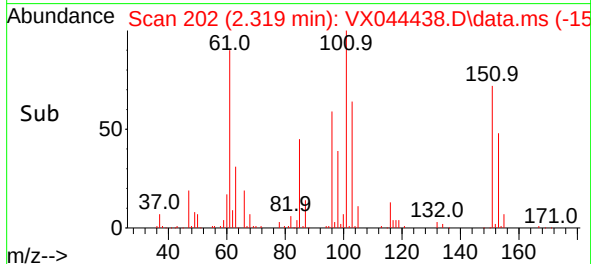
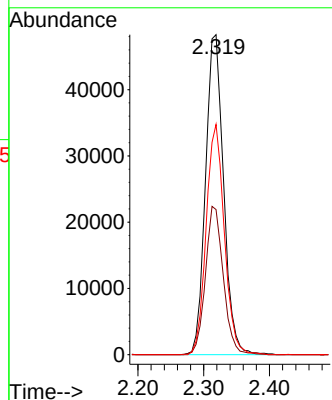
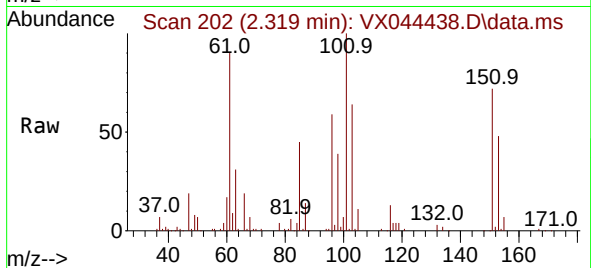




#9
1,1,2-Trichlorotrifluoroethane
Concen: 55.436 ug/l
RT: 2.319 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

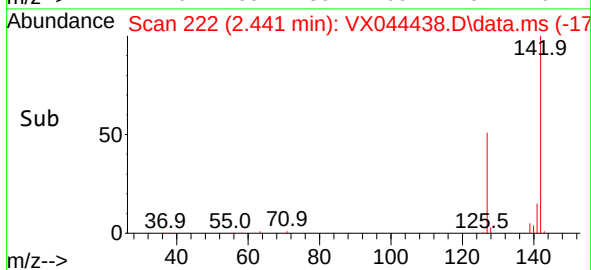
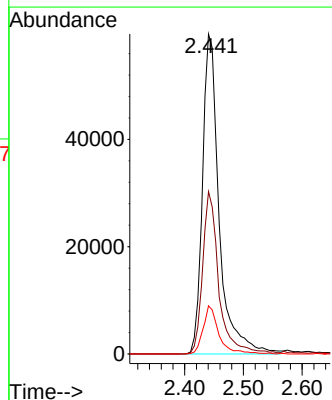
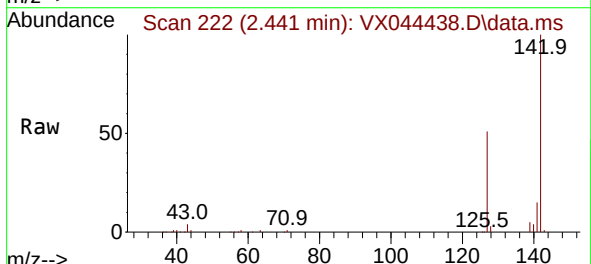
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

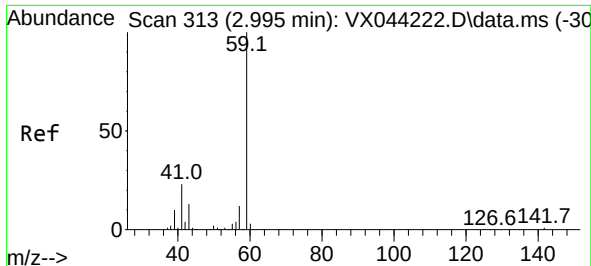
Tgt Ion:101 Resp: 92304
Ion Ratio Lower Upper
101 100
85 46.0 38.5 57.7
151 72.5 55.8 83.6



#10
Methyl Iodide
Concen: 53.737 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:142 Resp: 117927
Ion Ratio Lower Upper
142 100
127 49.2 41.8 62.8
141 14.2 11.5 17.3

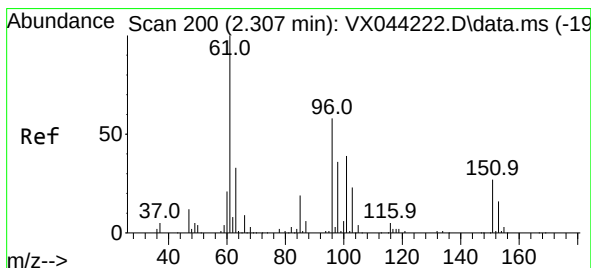
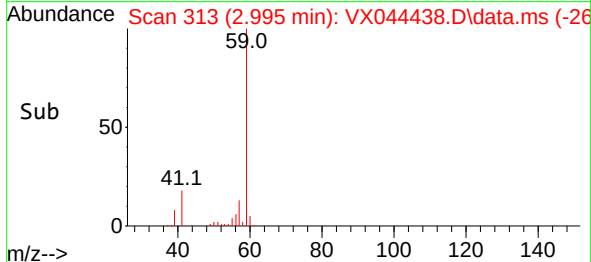
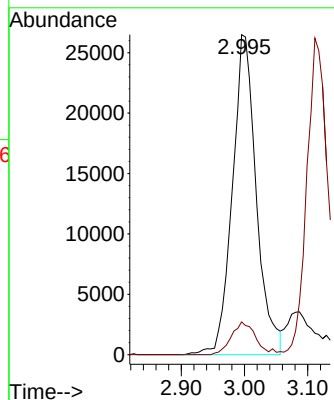
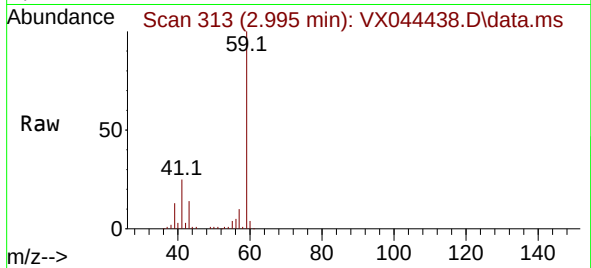




#11
Tert butyl alcohol
Concen: 207.237 ug/l
RT: 2.995 min Scan# 313
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

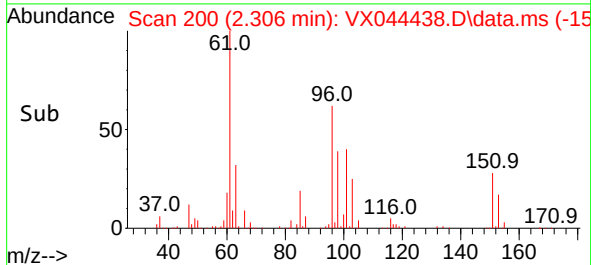
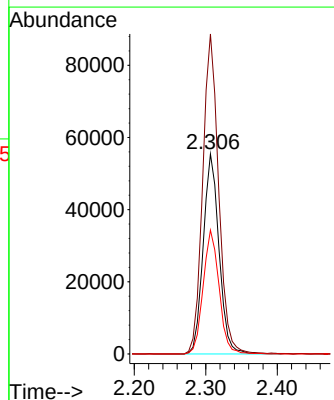
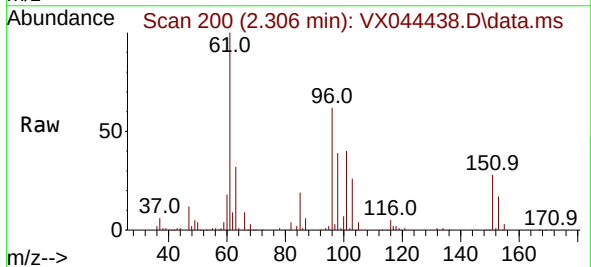
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

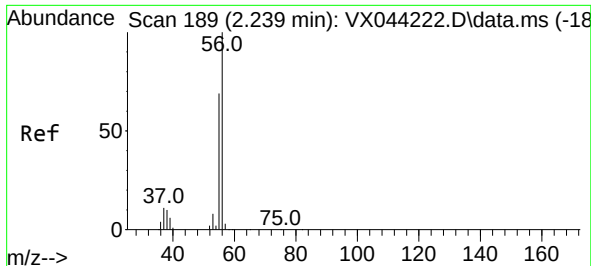
Tgt Ion: 59 Resp: 69873
Ion Ratio Lower Upper
59 100
57 10.6 8.8 13.2



#12
1,1-Dichloroethene
Concen: 55.650 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 96 Resp: 85110
Ion Ratio Lower Upper
96 100
61 160.0 138.0 207.0
98 62.0 50.0 75.0

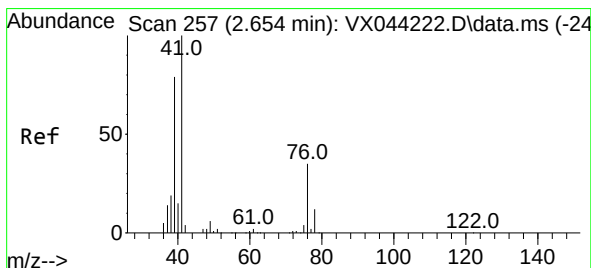
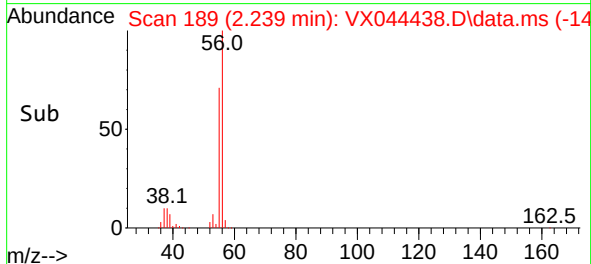
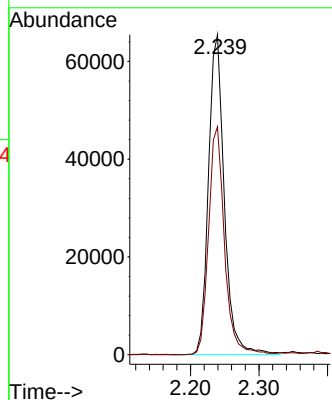
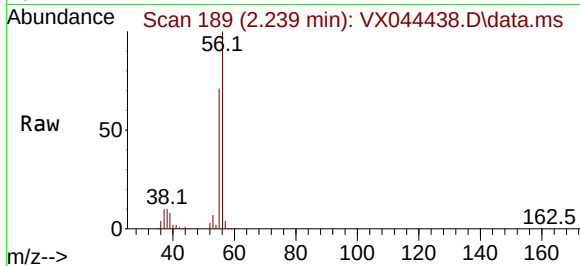




#13
Acrolein
Concen: 216.034 ug/l
RT: 2.239 min Scan# 189
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

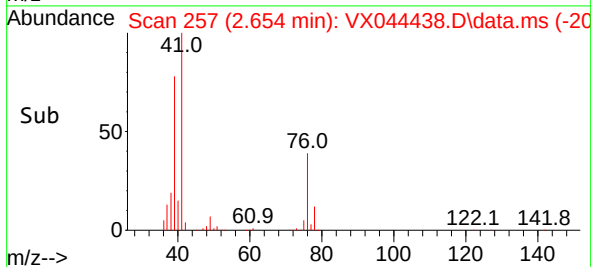
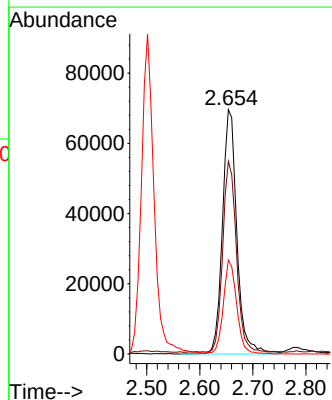
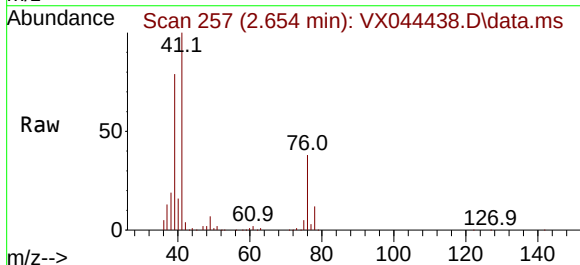
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

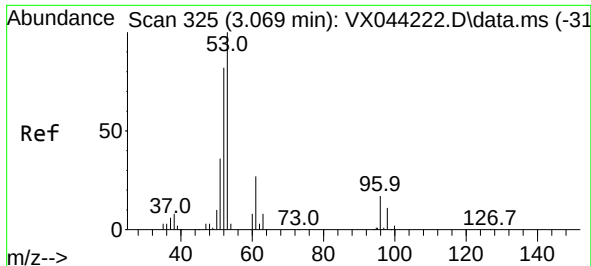
Tgt Ion: 56 Resp: 105437
Ion Ratio Lower Upper
56 100
55 71.6 56.6 84.8



#14
Allyl chloride
Concen: 51.595 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 41 Resp: 131432
Ion Ratio Lower Upper
41 100
39 73.8 61.9 92.9
76 35.5 27.4 41.2

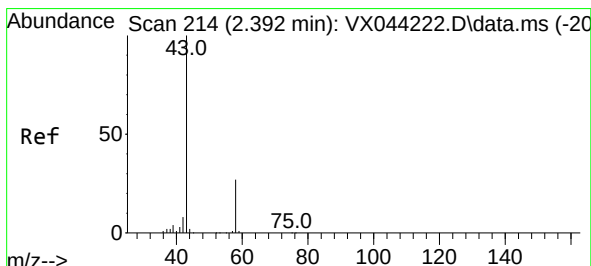
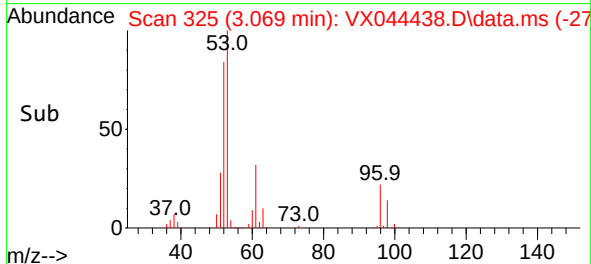
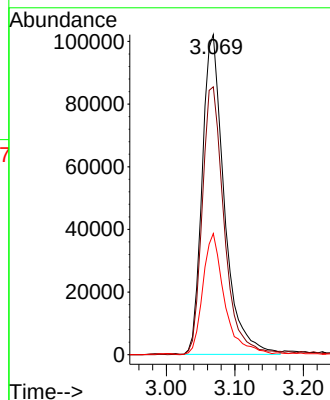
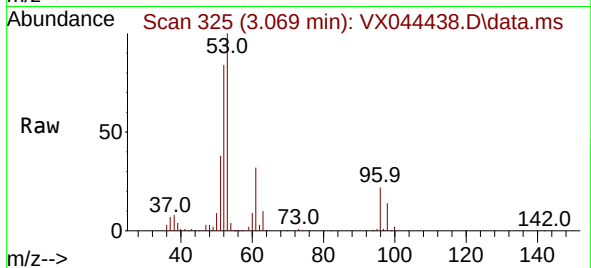




#15
Acrylonitrile
Concen: 245.064 ug/l
RT: 3.069 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

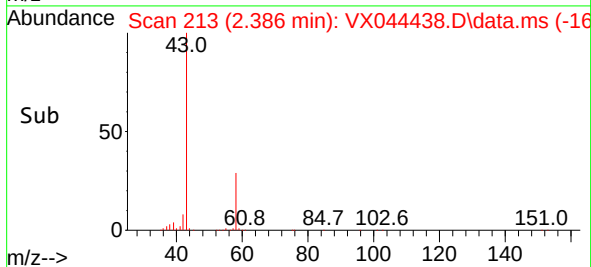
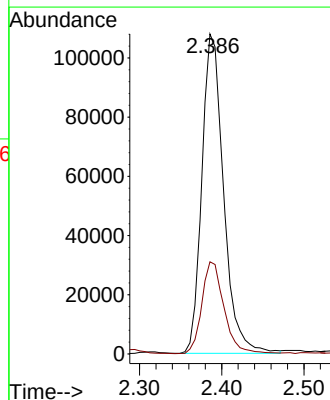
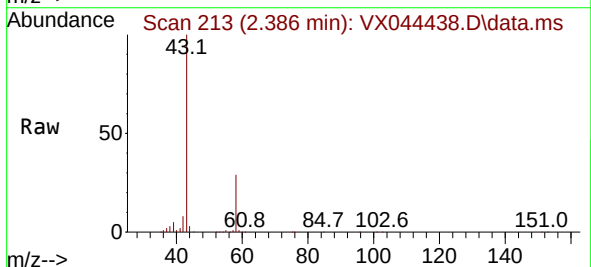
Instrument :
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ClientSampleId :
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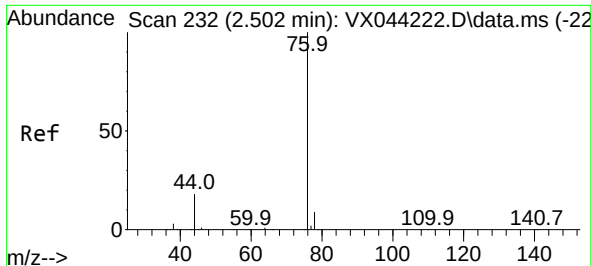
Tgt Ion: 53 Resp: 228880
Ion Ratio Lower Upper
53 100
52 83.6 67.4 101.0
51 37.1 30.3 45.5



#16
Acetone
Concen: 203.262 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 198245
Ion Ratio Lower Upper
43 100
58 28.7 21.6 32.4

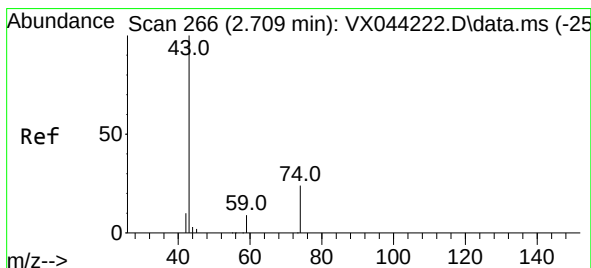
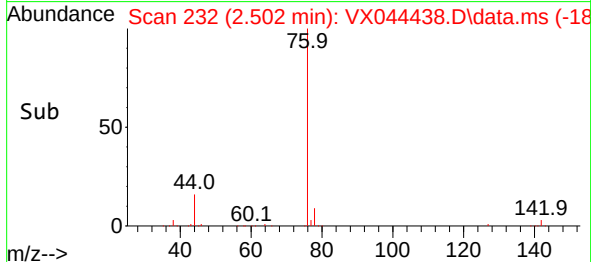
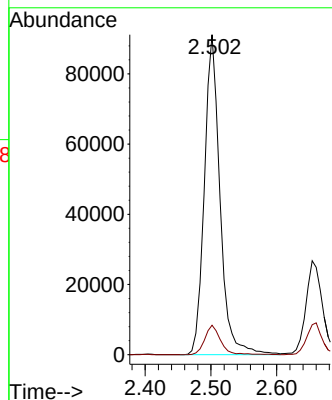
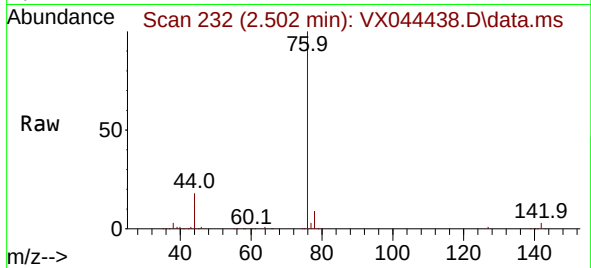




#17
Carbon Disulfide
Concen: 51.902 ug/l
RT: 2.502 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

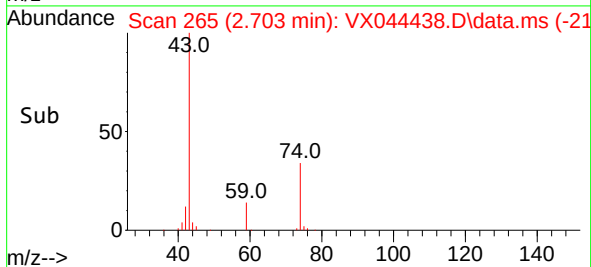
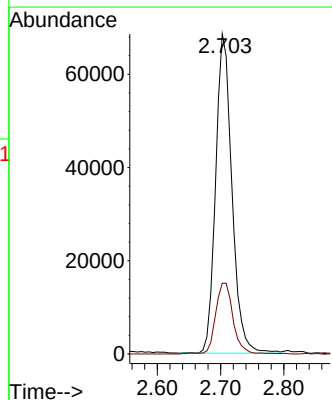
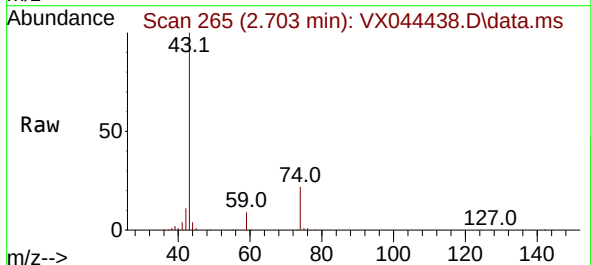
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

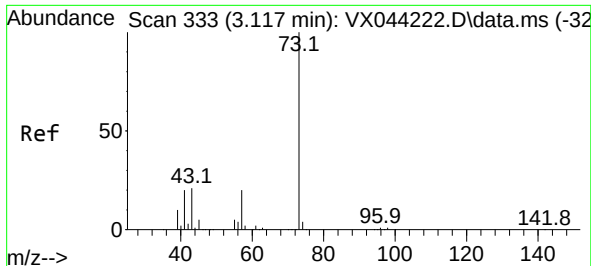
Tgt Ion: 76 Resp: 150886
Ion Ratio Lower Upper
76 100
78 9.2 7.4 11.0



#18
Methyl Acetate
Concen: 48.611 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 122242
Ion Ratio Lower Upper
43 100
74 23.7 17.7 26.5

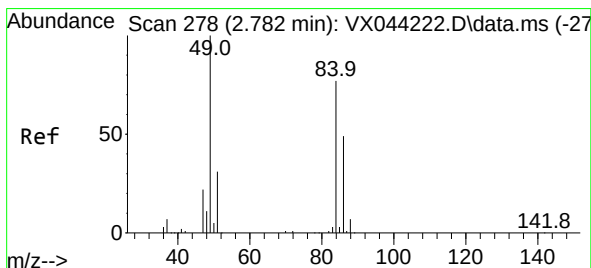
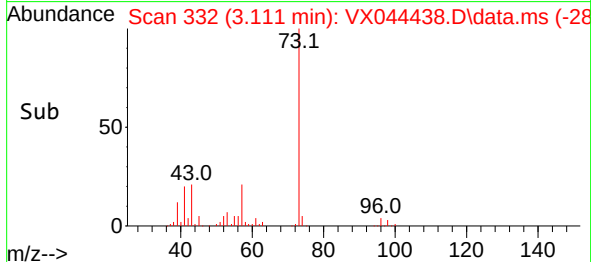
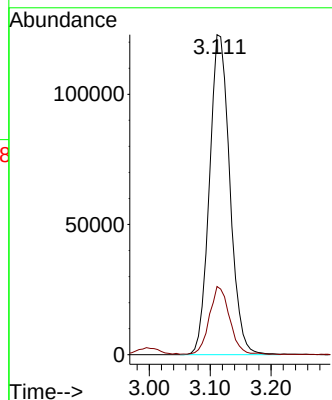
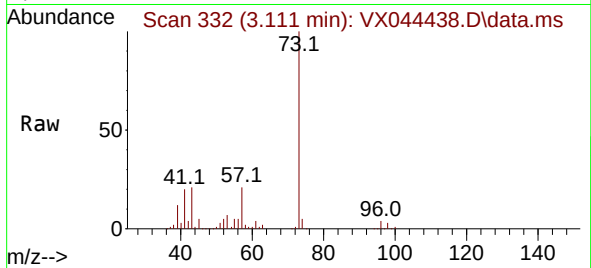




#19
Methyl tert-butyl Ether
Concen: 47.845 ug/l
RT: 3.111 min Scan# 311
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

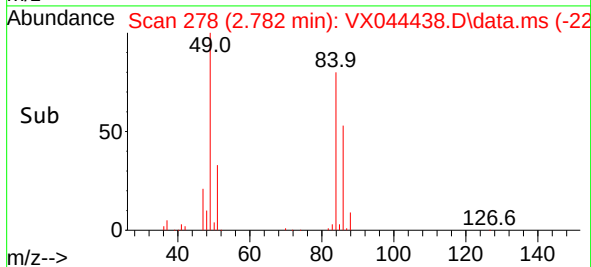
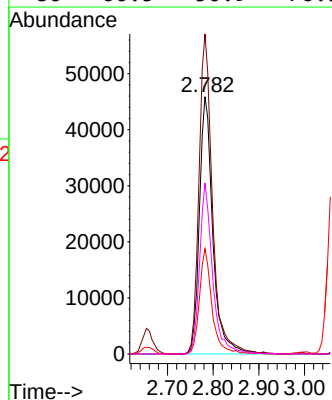
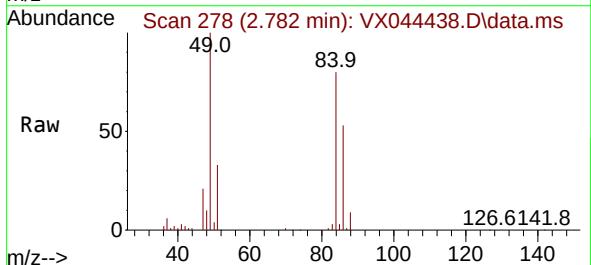
Instrument :
MSVOA_X
ClientSampleId :
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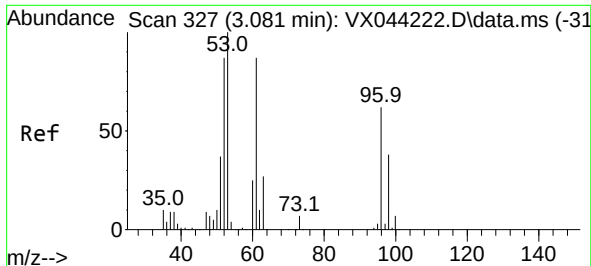
Tgt Ion: 73 Resp: 285547
Ion Ratio Lower Upper
73 100
57 21.2 16.2 24.4



#20
Methylene Chloride
Concen: 51.347 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 84 Resp: 94061
Ion Ratio Lower Upper
84 100
49 124.4 104.2 156.4
51 40.9 32.2 48.4
86 66.5 50.9 76.3

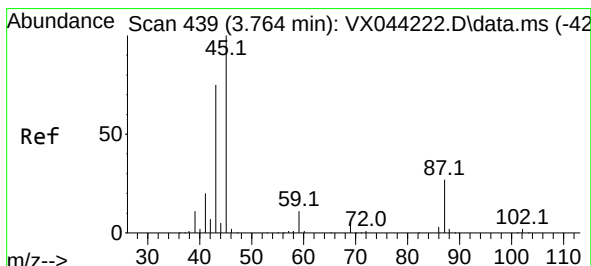
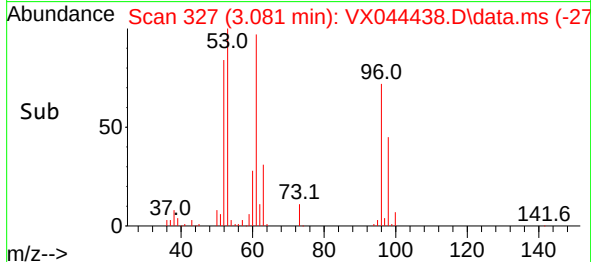
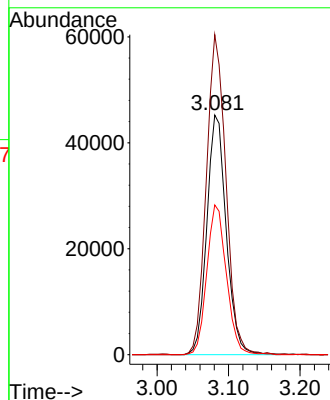
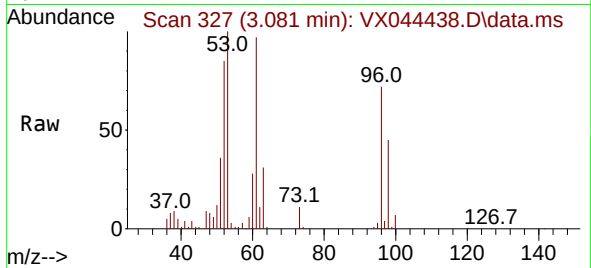




#21
trans-1,2-Dichloroethene
Concen: 52.474 ug/l
RT: 3.081 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

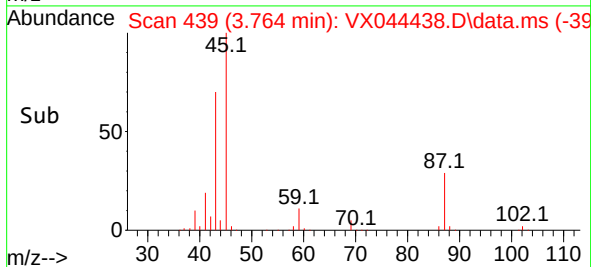
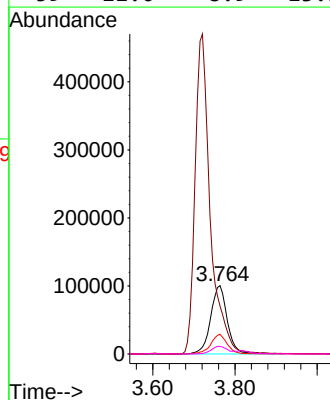
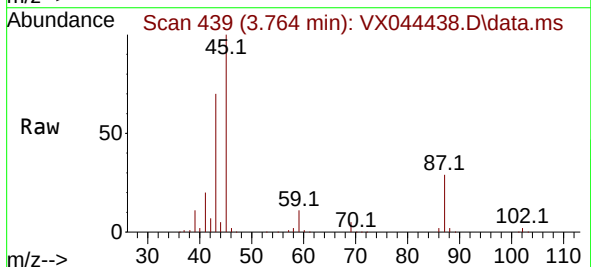
Instrument :
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ClientSampleId :
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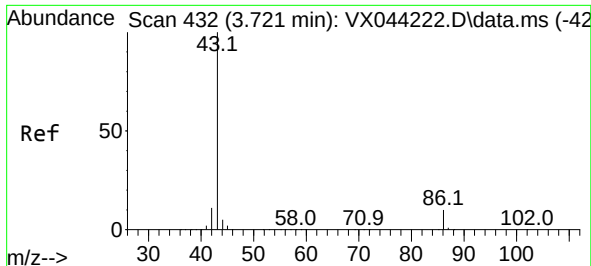
Tgt Ion: 96 Resp: 85292
Ion Ratio Lower Upper
96 100
61 133.6 112.0 168.0
98 62.5 48.8 73.2



#22
Diisopropyl ether
Concen: 49.031 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 45 Resp: 281255
Ion Ratio Lower Upper
45 100
43 69.9 60.2 90.2
87 28.8 21.2 31.8
59 11.0 8.9 13.3

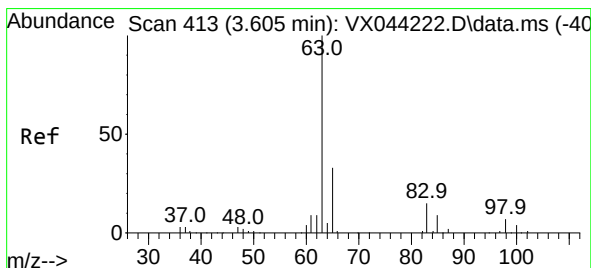
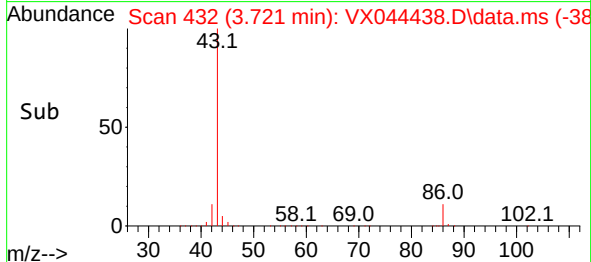
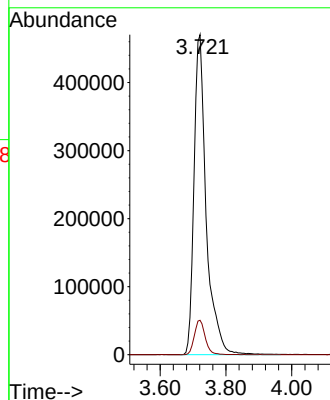
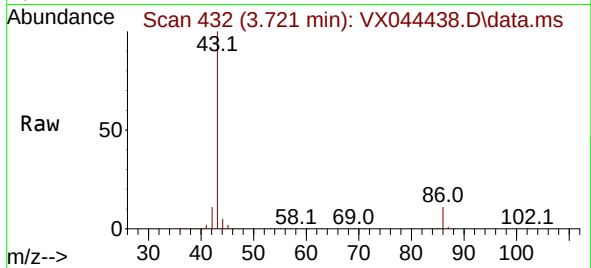




#23
 Vinyl Acetate
 Concen: 259.287 ug/l
 RT: 3.721 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VX044438.D
 Acq: 20 Dec 2024 09:16

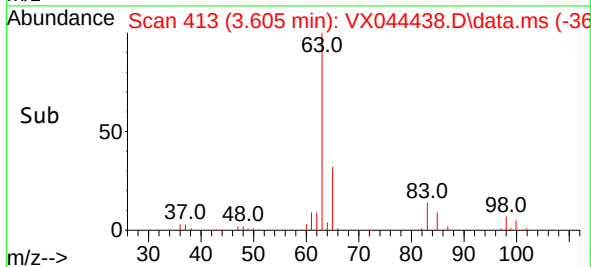
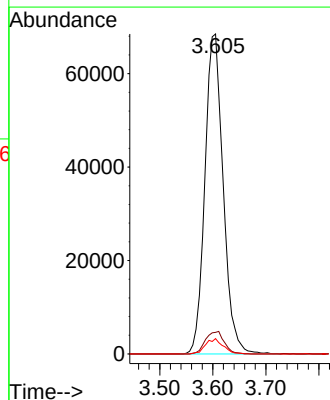
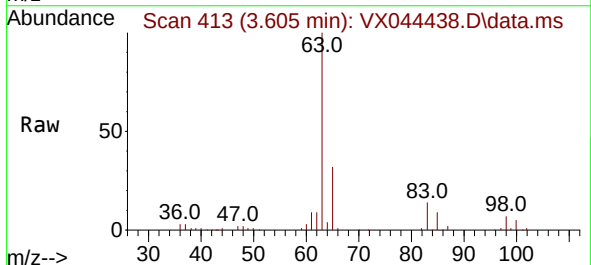
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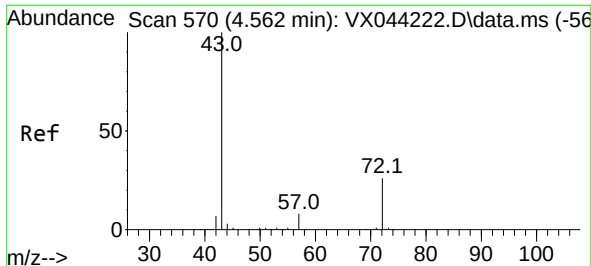
Tgt Ion: 43 Resp: 1209209
 Ion Ratio Lower Upper
 43 100
 86 10.8 8.2 12.2



#24
 1,1-Dichloroethane
 Concen: 51.322 ug/l
 RT: 3.605 min Scan# 413
 Delta R.T. -0.000 min
 Lab File: VX044438.D
 Acq: 20 Dec 2024 09:16

Tgt Ion: 63 Resp: 164103
 Ion Ratio Lower Upper
 63 100
 98 6.7 3.6 10.8
 100 4.8 2.1 6.3

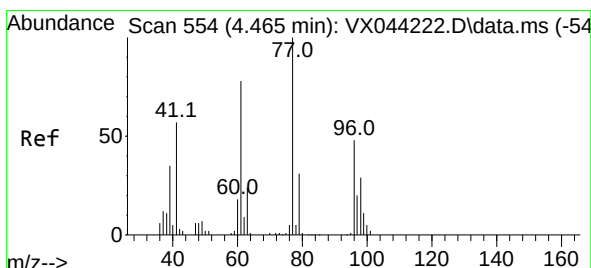
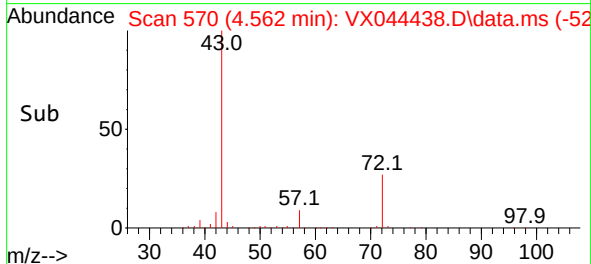
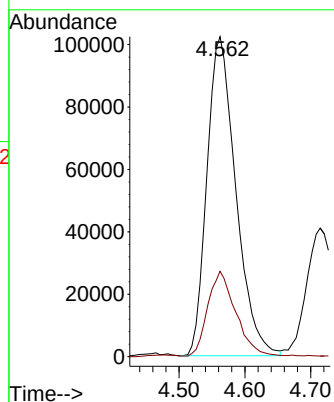
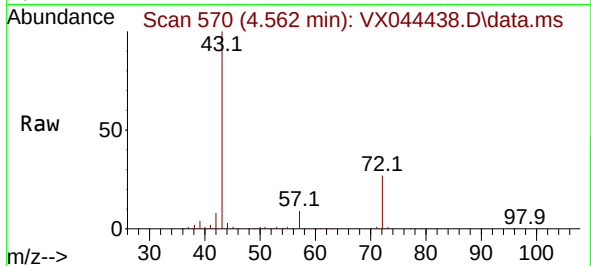




#25
2-Butanone
Concen: 225.066 ug/l
RT: 4.562 min Scan# 51
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

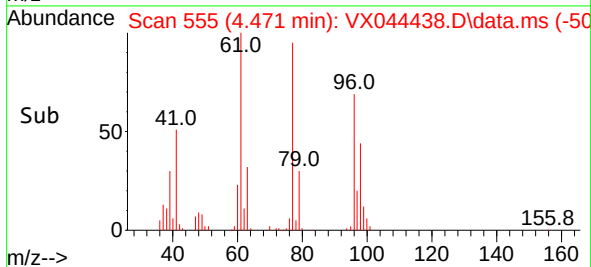
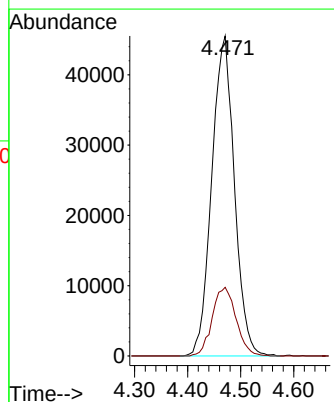
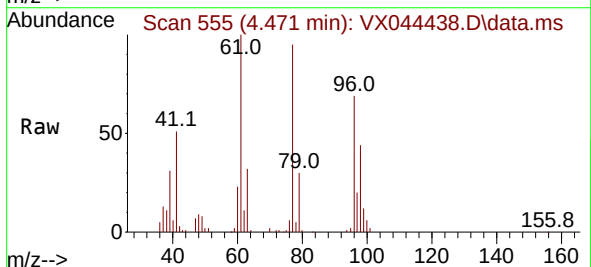
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

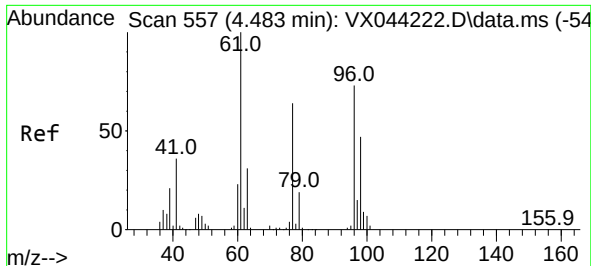
Tgt Ion: 43 Resp: 312065
Ion Ratio Lower Upper
43 100
72 26.6 20.2 30.4



#26
2,2-Dichloropropane
Concen: 51.979 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 77 Resp: 135023
Ion Ratio Lower Upper
77 100
97 22.6 10.7 32.1



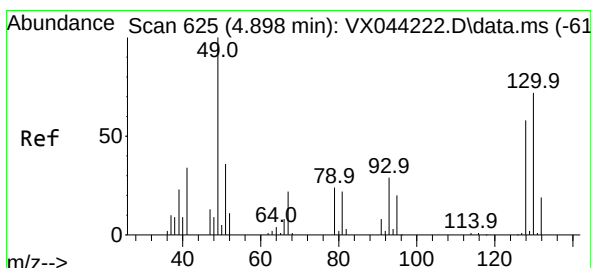
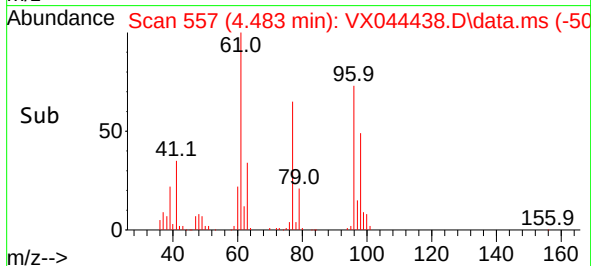
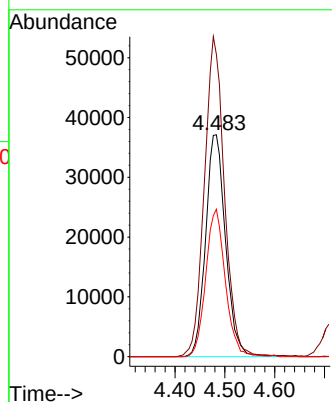
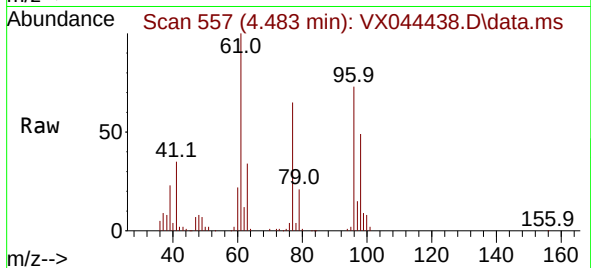


#27
 cis-1,2-Dichloroethene
 Concen: 49.931 ug/l
 RT: 4.483 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VX044438.D
 Acq: 20 Dec 2024 09:16

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 96 Resp: 103072

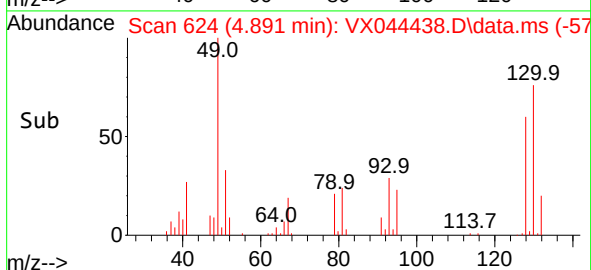
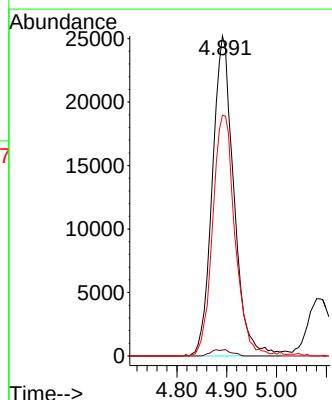
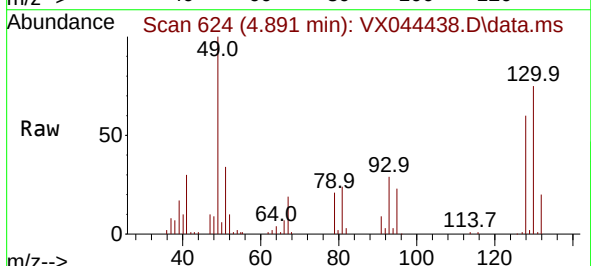
Ion	Ratio	Lower	Upper
96	100		
61	144.7	0.0	299.0
98	65.2	0.0	129.0

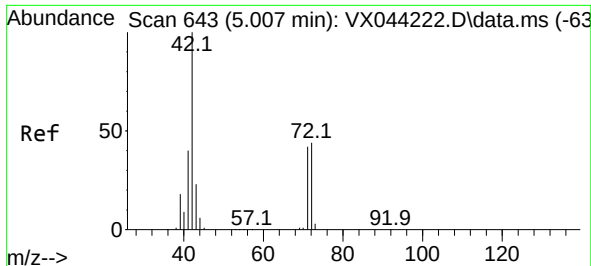


#28
 Bromochloromethane
 Concen: 48.128 ug/l
 RT: 4.891 min Scan# 624
 Delta R.T. -0.006 min
 Lab File: VX044438.D
 Acq: 20 Dec 2024 09:16

Tgt Ion: 49 Resp: 75463

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.2
130	78.0	62.1	93.1





#29

Tetrahydrofuran

Concen: 227.599 ug/l

RT: 5.001 min Scan# 643

Delta R.T. -0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

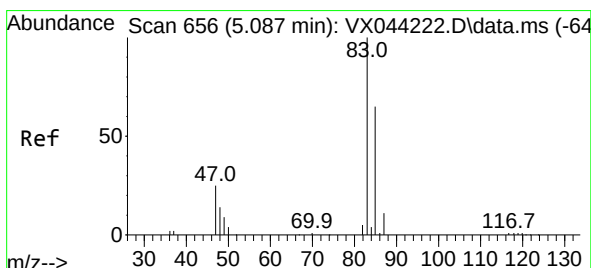
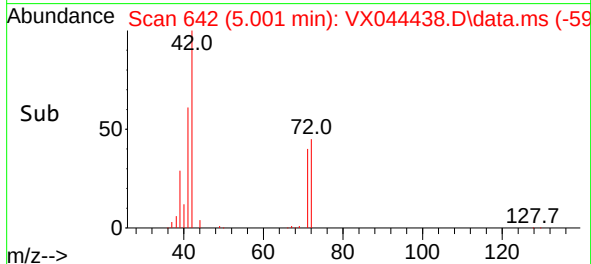
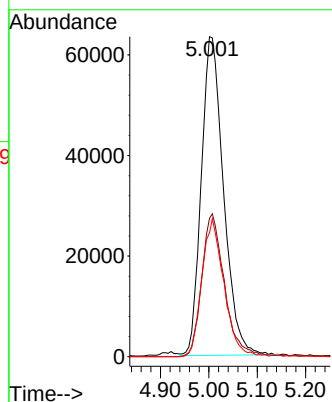
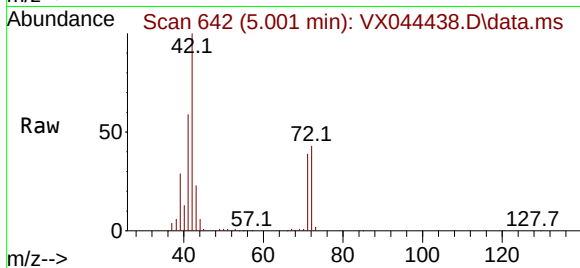
Tgt Ion: 42 Resp: 202559

Ion Ratio Lower Upper

42 100

72 45.7 37.0 55.6

71 42.9 33.6 50.4



#30

Chloroform

Concen: 48.035 ug/l

RT: 5.086 min Scan# 656

Delta R.T. -0.000 min

Lab File: VX044438.D

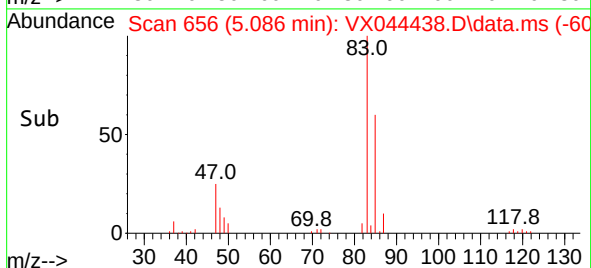
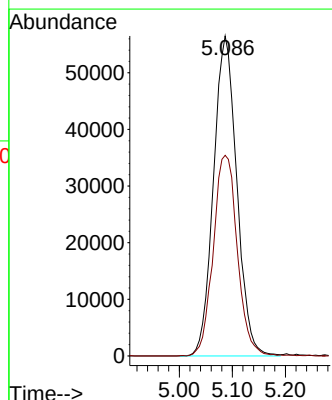
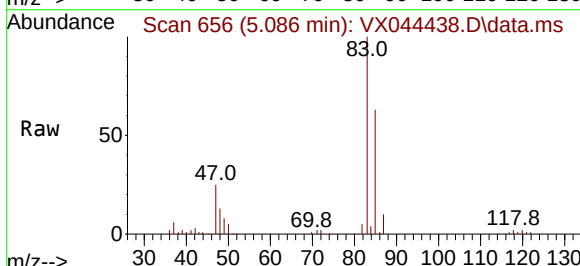
Acq: 20 Dec 2024 09:16

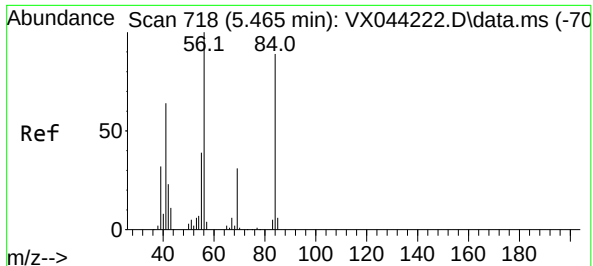
Tgt Ion: 83 Resp: 172568

Ion Ratio Lower Upper

83 100

85 62.6 51.6 77.4

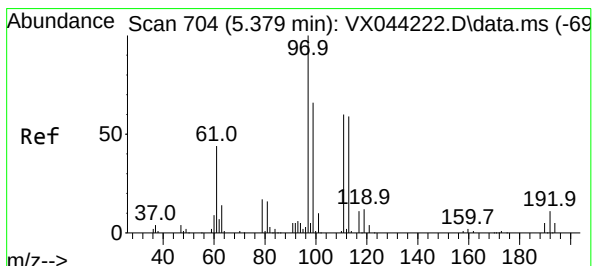
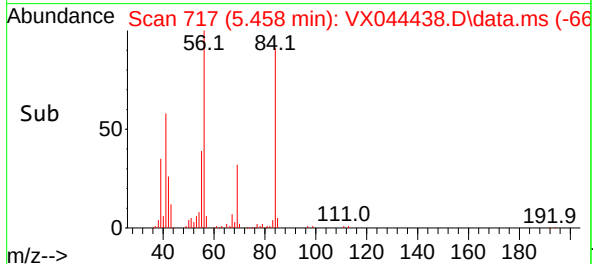
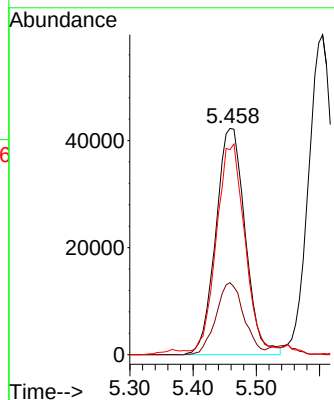
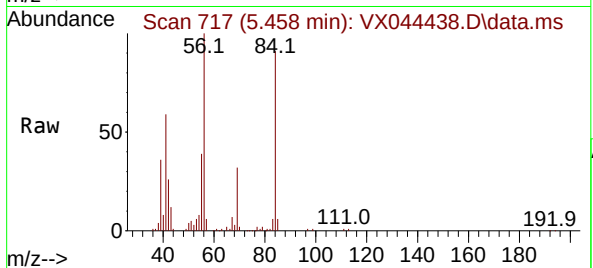




#31
Cyclohexane
Concen: 52.839 ug/l
RT: 5.458 min Scan# 718
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

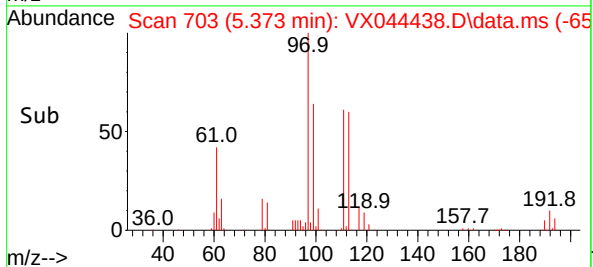
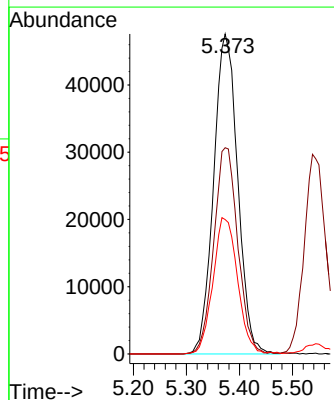
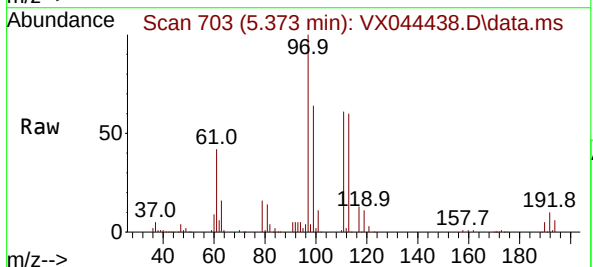
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

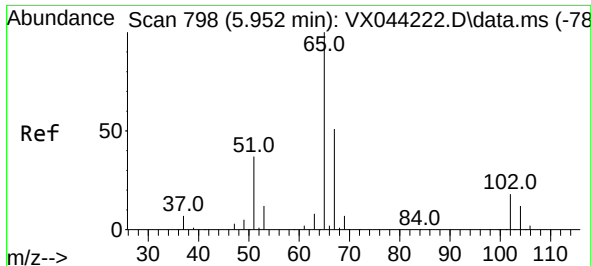
Tgt Ion: 56 Resp: 136432
Ion Ratio Lower Upper
56 100
69 31.9 24.7 37.1
84 89.0 71.0 106.6



#32
1,1,1-Trichloroethane
Concen: 50.298 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 97 Resp: 149993
Ion Ratio Lower Upper
97 100
99 64.4 50.8 76.2
61 43.5 35.2 52.8





#33

1,2-Dichloroethane-d4

Concen: 47.679 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

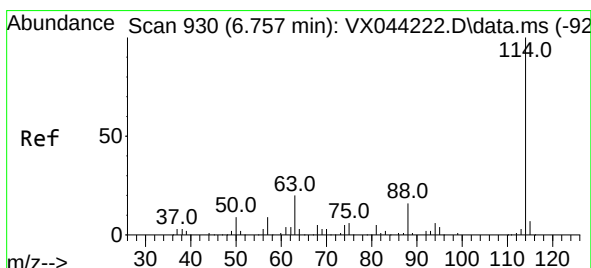
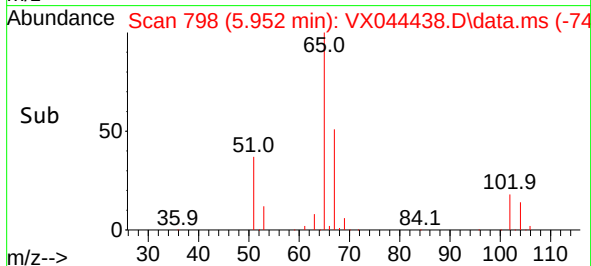
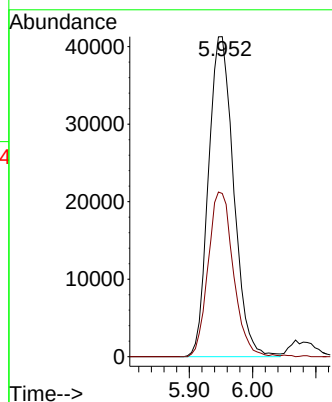
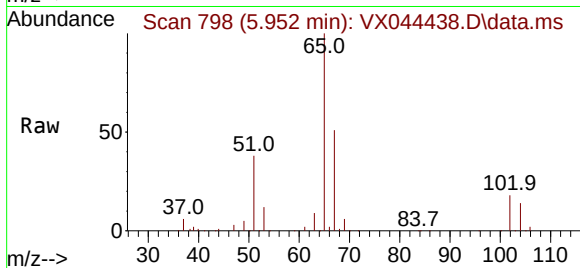
VSTDCCC050

Tgt Ion: 65 Resp: 114063

Ion Ratio Lower Upper

65 100

67 51.5 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

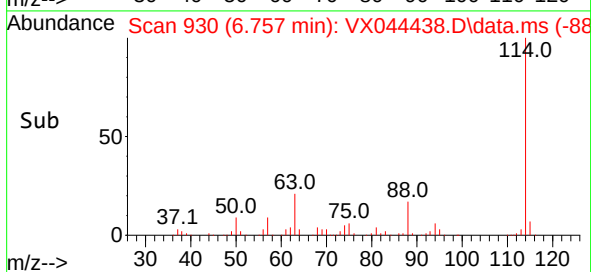
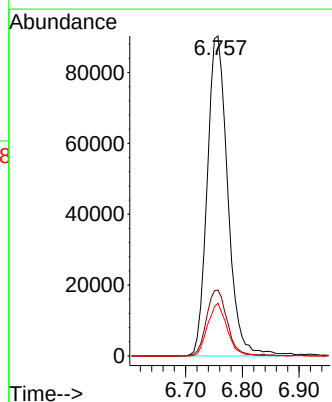
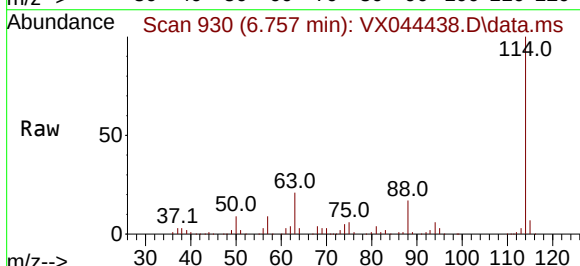
Tgt Ion: 114 Resp: 226018

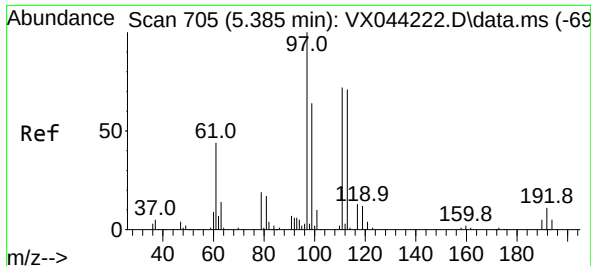
Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.6

88 16.5 0.0 31.8

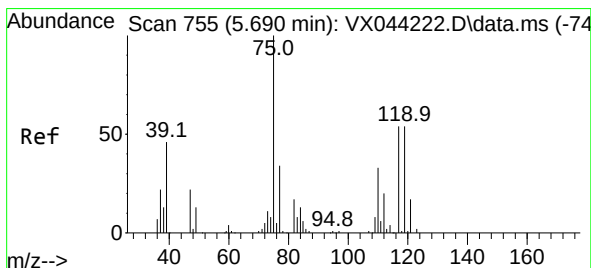
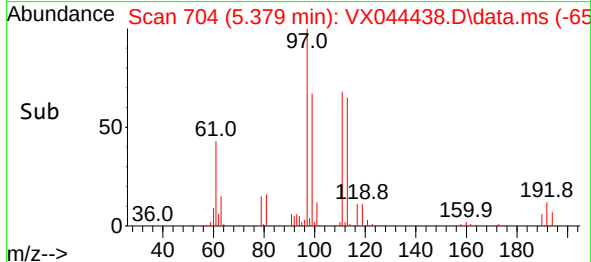
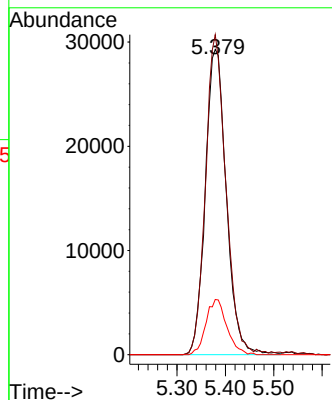
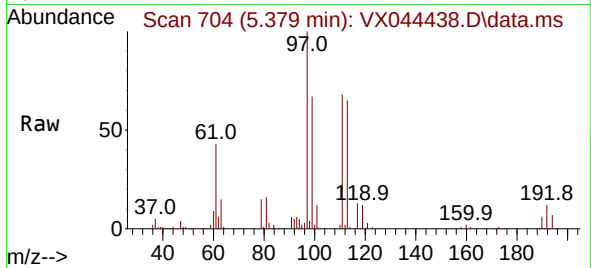




#35
Dibromofluoromethane
Concen: 56.586 ug/l
RT: 5.379 min Scan# 705
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

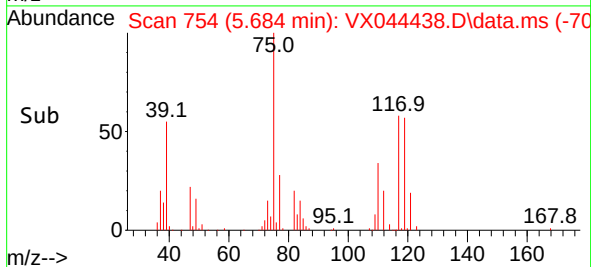
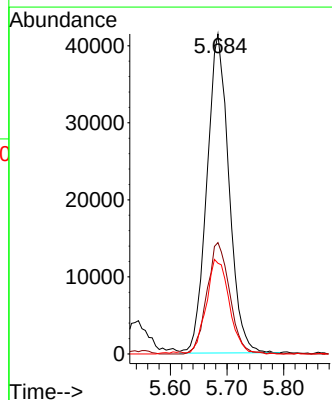
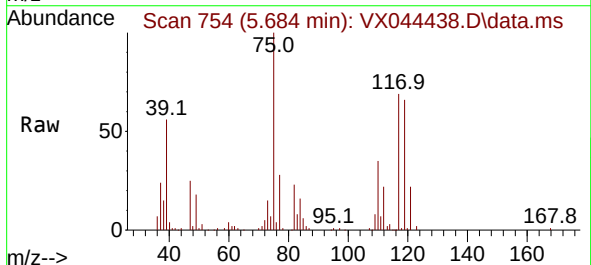
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

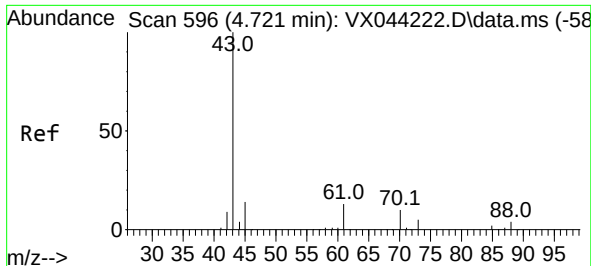
Tgt Ion:113 Resp: 88578
Ion Ratio Lower Upper
113 100
111 101.0 80.4 120.6
192 18.0 13.3 19.9



#36
1,1-Dichloropropene
Concen: 55.205 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 111706
Ion Ratio Lower Upper
75 100
110 36.3 17.3 51.7
77 31.1 25.4 38.0





#37

Ethyl Acetate

Concen: 50.217 ug/l

RT: 4.715 min Scan# 595

Delta R.T. -0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

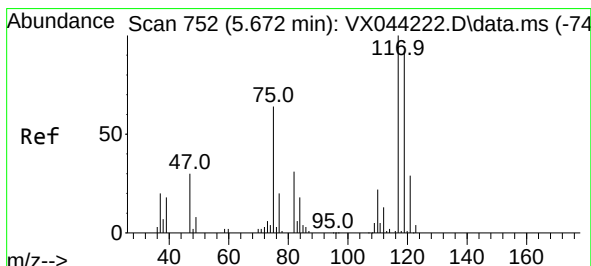
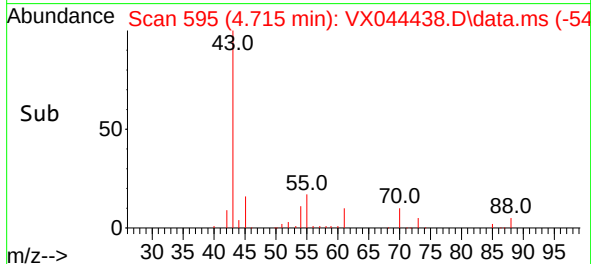
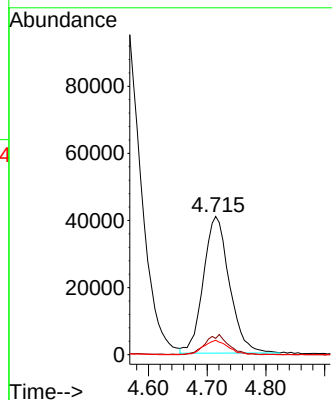
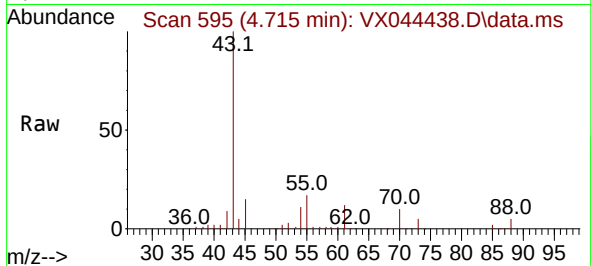
Tgt Ion: 43 Resp: 125607

Ion Ratio Lower Upper

43 100

61 12.7 9.8 14.8

70 10.0 7.7 11.5



#38

Carbon Tetrachloride

Concen: 55.304 ug/l

RT: 5.672 min Scan# 752

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

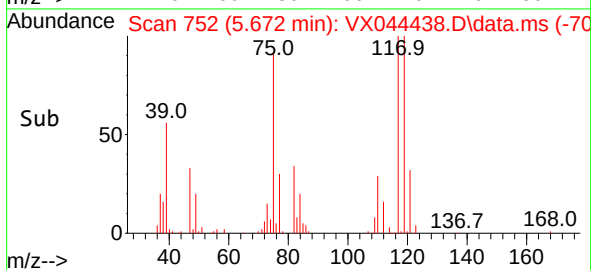
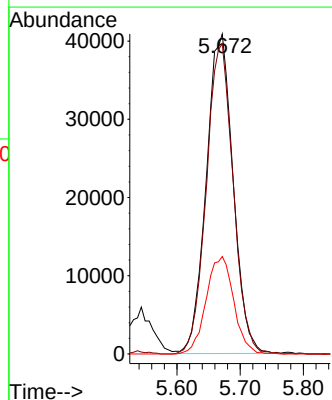
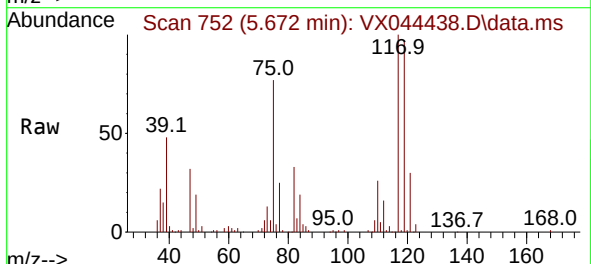
Tgt Ion: 117 Resp: 120478

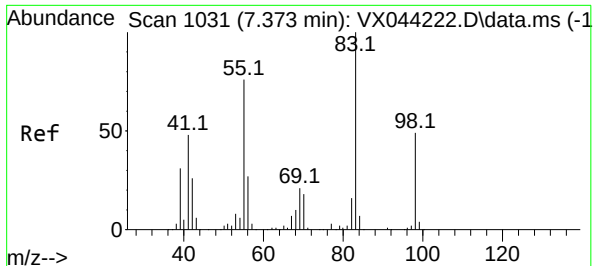
Ion Ratio Lower Upper

117 100

119 96.8 74.2 111.4

121 30.5 23.0 34.6





#39

Methylcyclohexane

Concen: 60.512 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

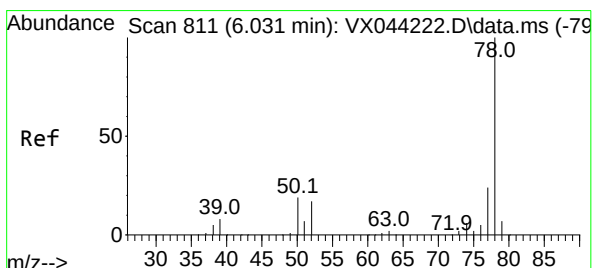
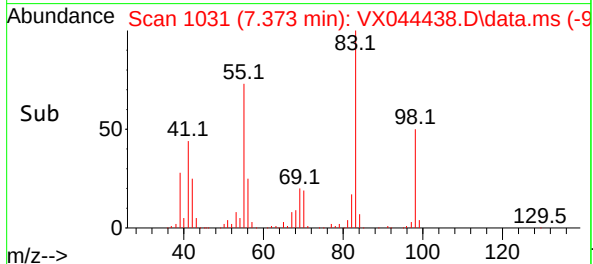
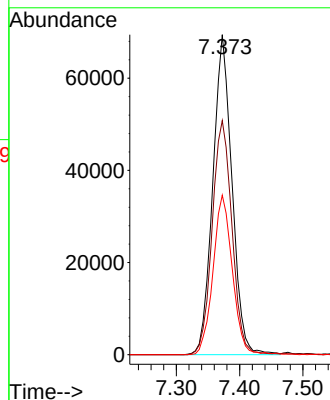
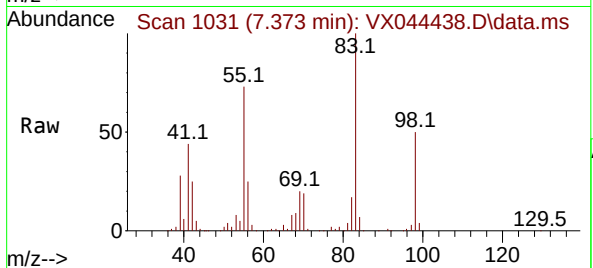
Tgt Ion: 83 Resp: 146379

Ion Ratio Lower Upper

83 100

55 73.1 60.7 91.1

98 49.8 38.9 58.3



#40

Benzene

Concen: 56.259 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX044438.D

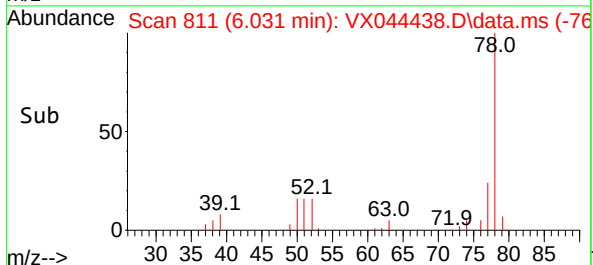
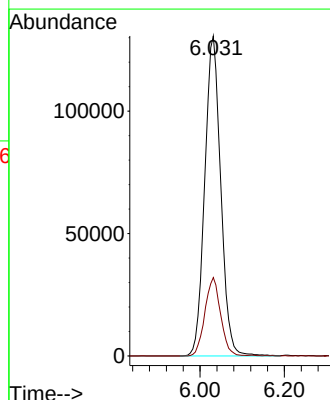
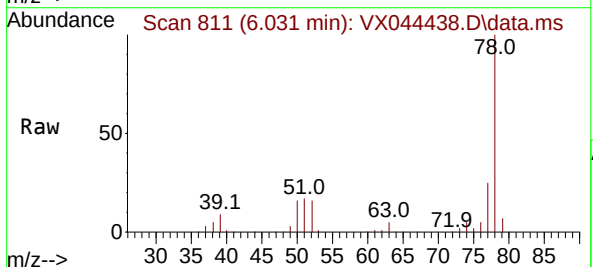
Acq: 20 Dec 2024 09:16

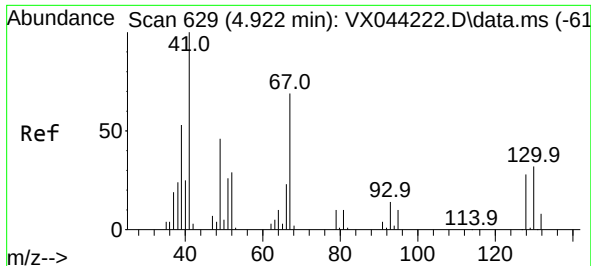
Tgt Ion: 78 Resp: 345635

Ion Ratio Lower Upper

78 100

77 24.5 19.3 28.9

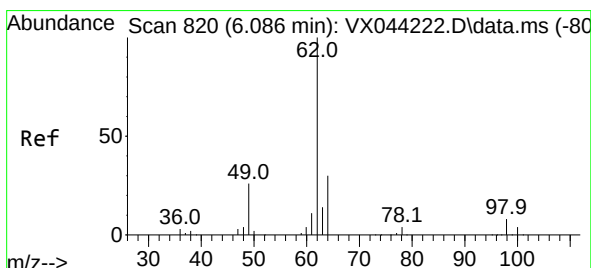
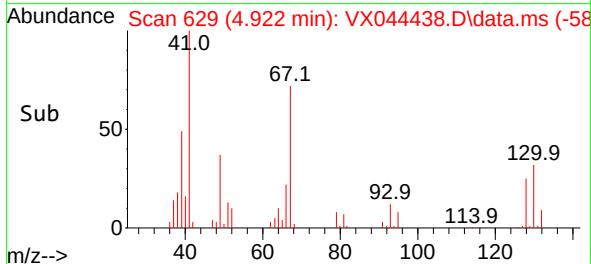
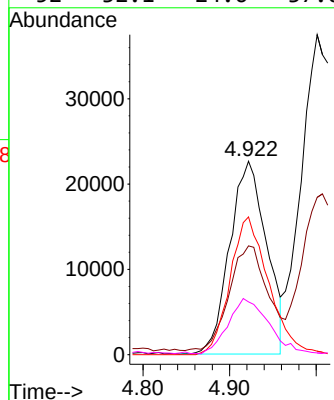
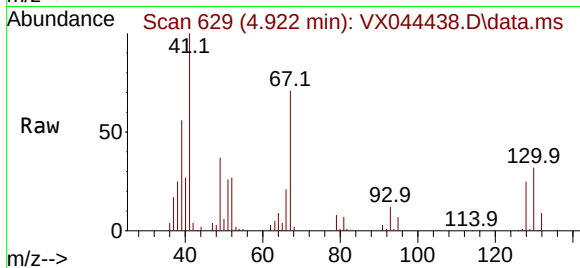




#41
Methacrylonitrile
Concen: 50.310 ug/l
RT: 4.922 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

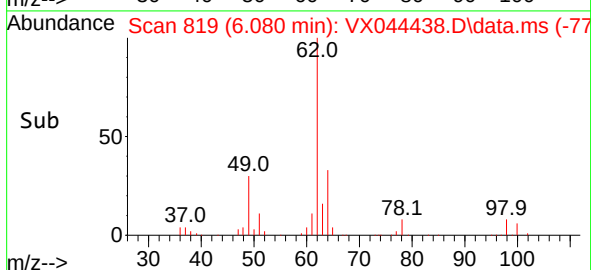
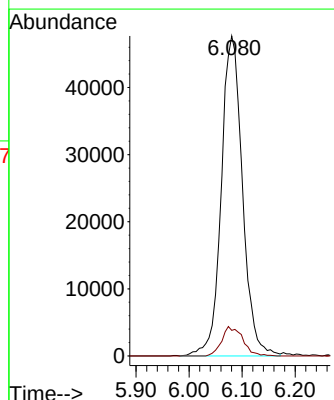
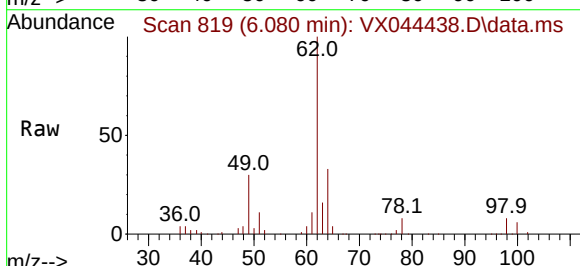
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

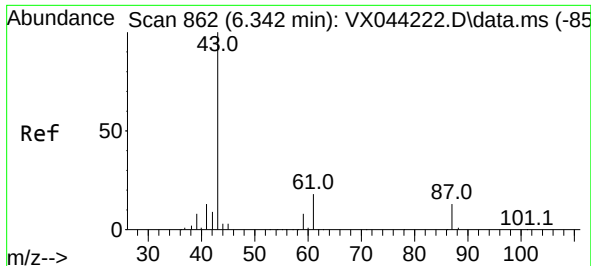
Tgt Ion:	41	Resp:	66821
Ion	Ratio	Lower	Upper
41	100		
39	58.0	44.2	66.4
67	74.9	57.2	85.8
52	32.1	24.6	37.0



#42
1,2-Dichloroethane
Concen: 52.362 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:	62	Resp:	132516
Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	15.8

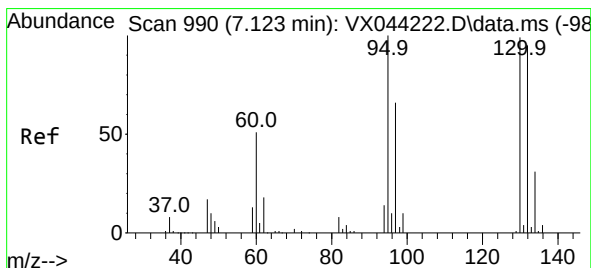
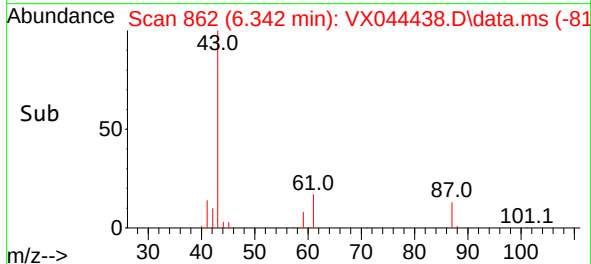
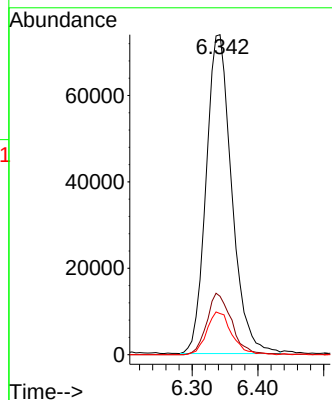
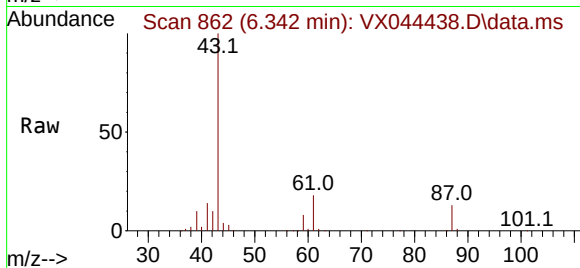




#43
Isopropyl Acetate
Concen: 51.076 ug/l
RT: 6.342 min Scan# 80
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

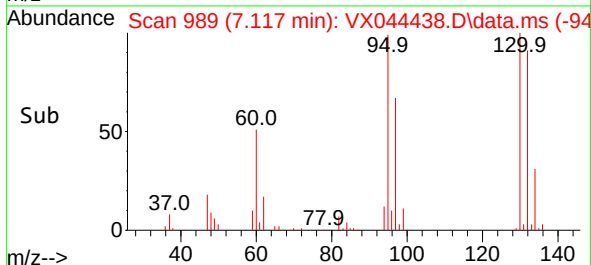
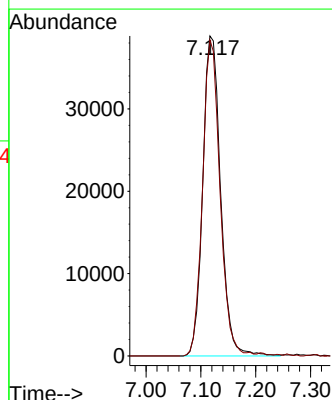
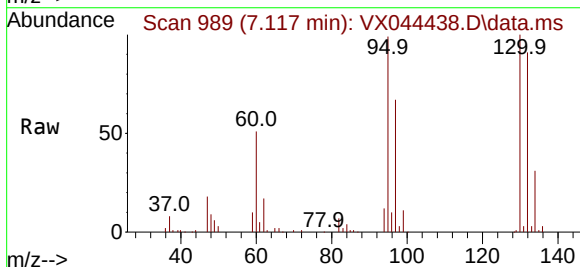
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

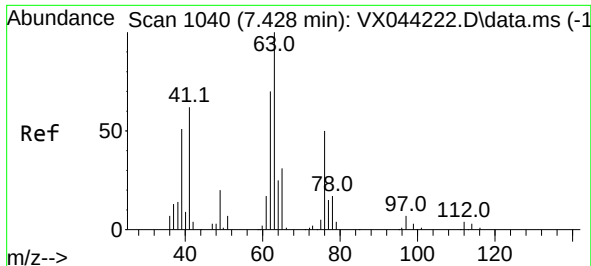
Tgt Ion: 43 Resp: 199677
Ion Ratio Lower Upper
43 100
61 18.8 14.2 21.2
87 13.1 10.2 15.2



#44
Trichloroethene
Concen: 57.285 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:130 Resp: 87763
Ion Ratio Lower Upper
130 100
95 98.7 0.0 201.4





#45

1,2-Dichloropropane

Concen: 53.131 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

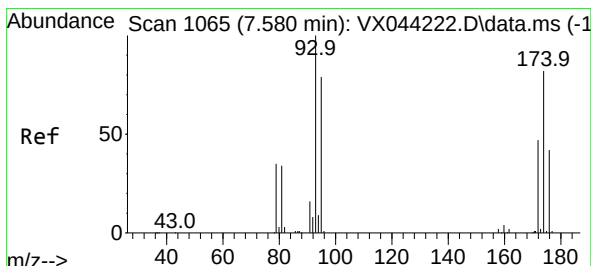
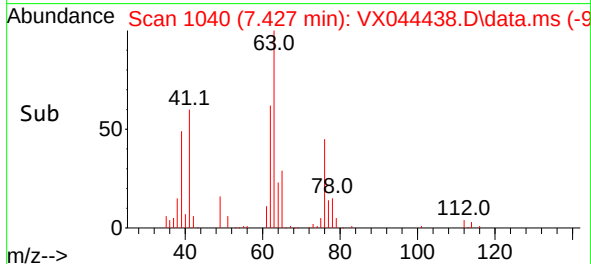
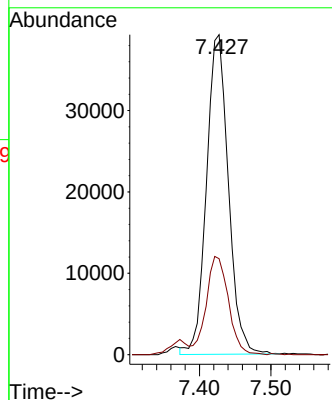
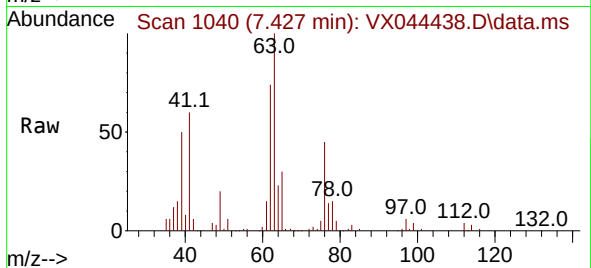
VSTDCCC050

Tgt Ion: 63 Resp: 83393

Ion Ratio Lower Upper

63 100

65 29.9 24.6 37.0



#46

Dibromomethane

Concen: 55.676 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

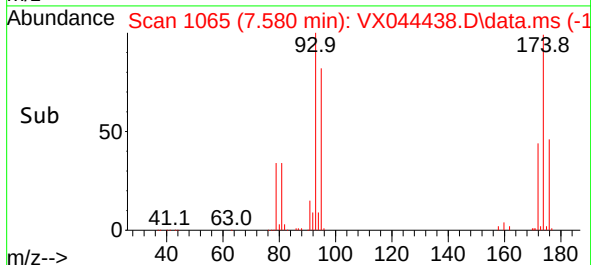
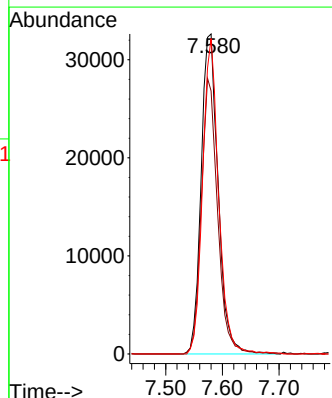
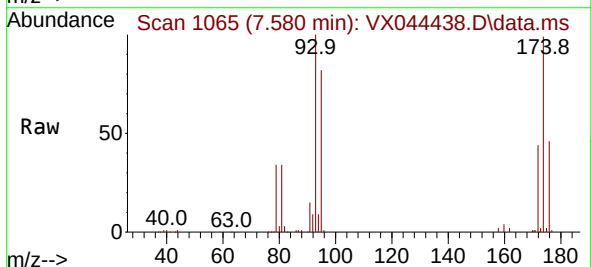
Tgt Ion: 93 Resp: 67796

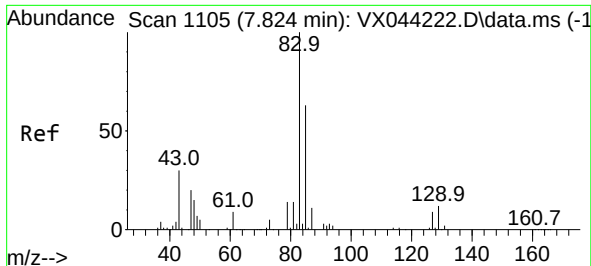
Ion Ratio Lower Upper

93 100

95 82.3 65.4 98.2

174 93.2 67.9 101.9

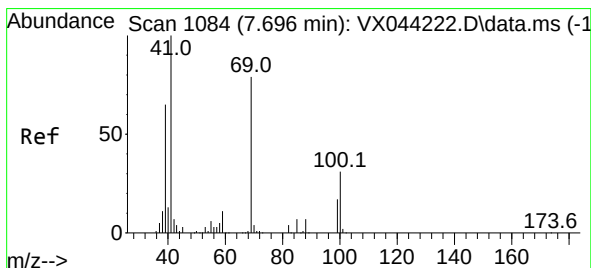
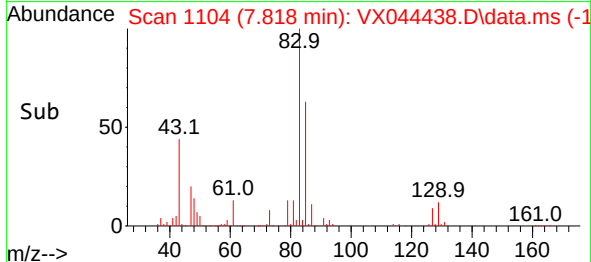
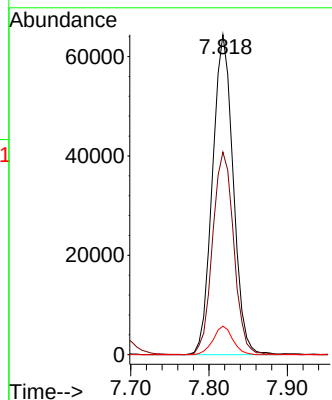
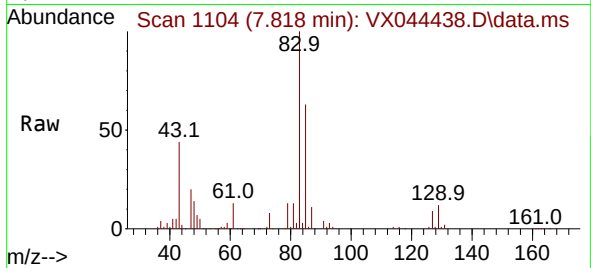




#47
Bromodichloromethane
Concen: 56.402 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

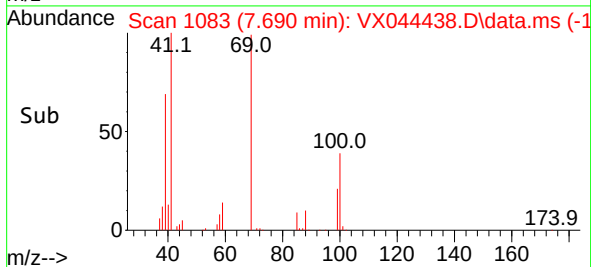
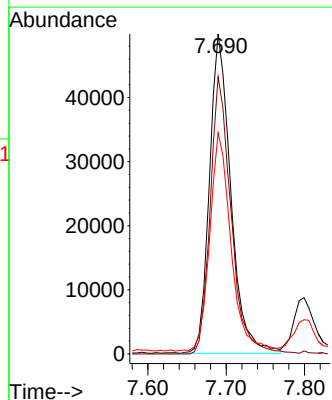
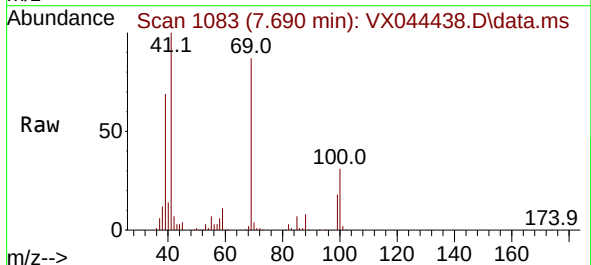
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

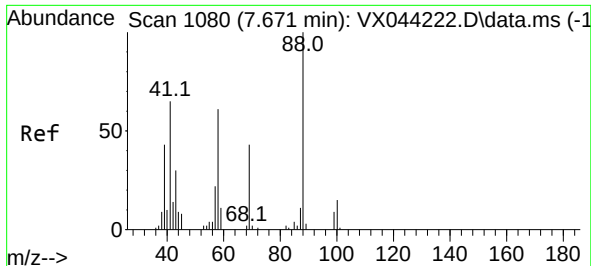
Tgt Ion: 83 Resp: 118614
Ion Ratio Lower Upper
83 100
85 63.2 50.6 75.8
127 8.9 7.3 10.9



#48
Methyl methacrylate
Concen: 49.554 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 41 Resp: 94040
Ion Ratio Lower Upper
41 100
69 85.0 62.4 93.6
39 67.5 53.3 79.9





#49

1,4-Dioxane

Concen: 906.120 ug/l

RT: 7.665 min Scan# 1080

Delta R.T. -0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

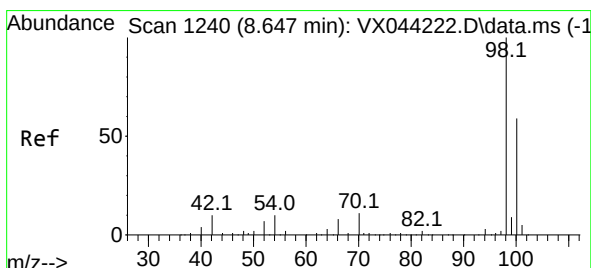
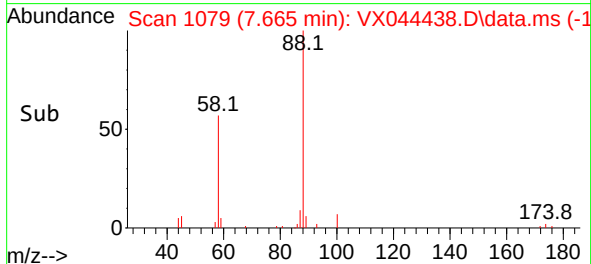
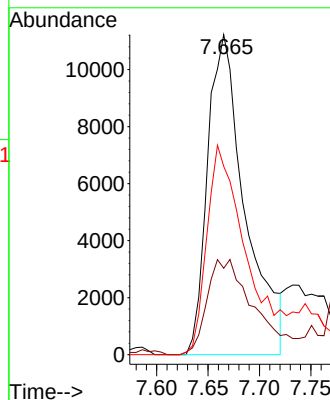
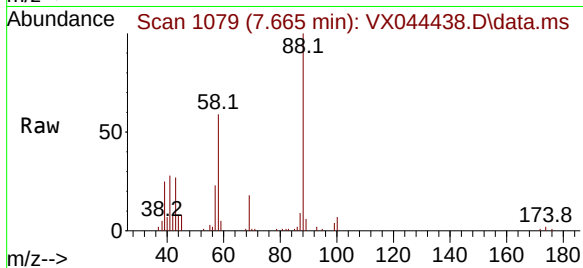
Tgt Ion: 88 Resp: 28510

Ion Ratio Lower Upper

88 100

43 37.0 27.1 40.7

58 69.1 41.0 61.4#



#50

Toluene-d8

Concen: 56.385 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX044438.D

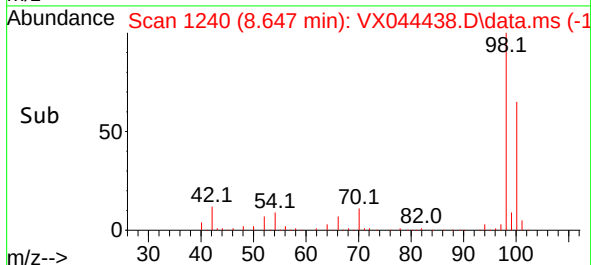
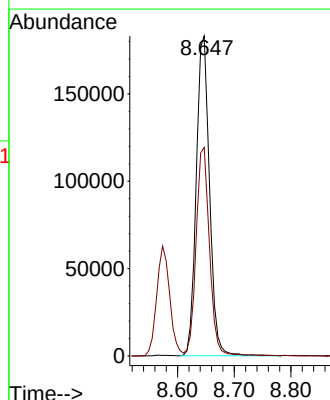
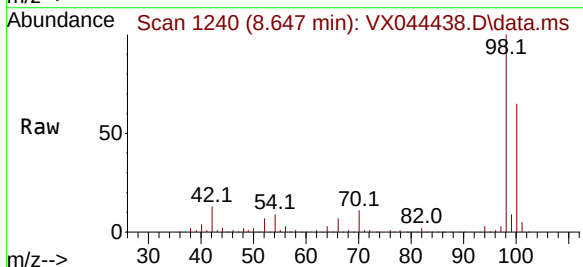
Acq: 20 Dec 2024 09:16

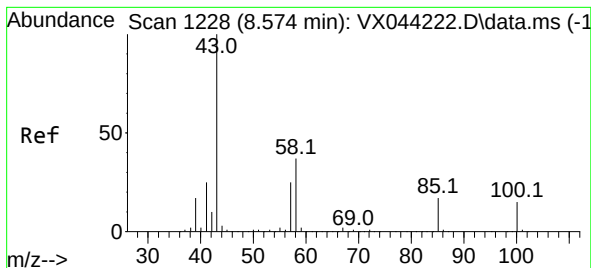
Tgt Ion: 98 Resp: 297779

Ion Ratio Lower Upper

98 100

100 65.4 51.5 77.3

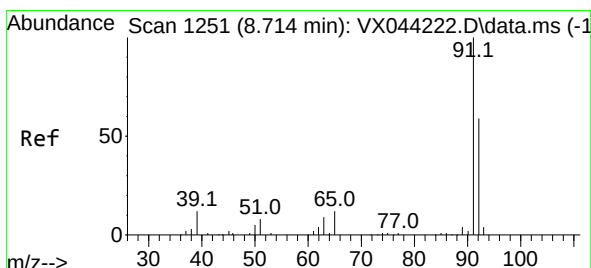
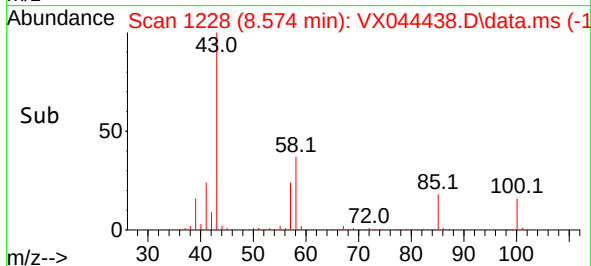
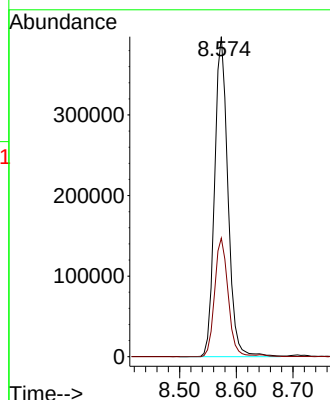
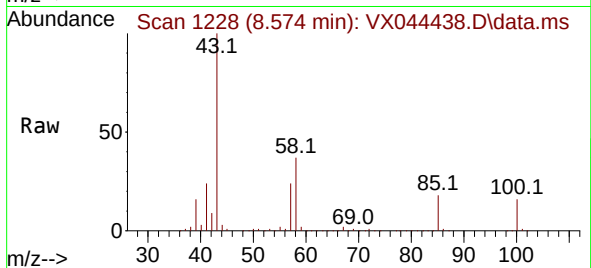




#51
4-Methyl-2-Pentanone
Concen: 257.494 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

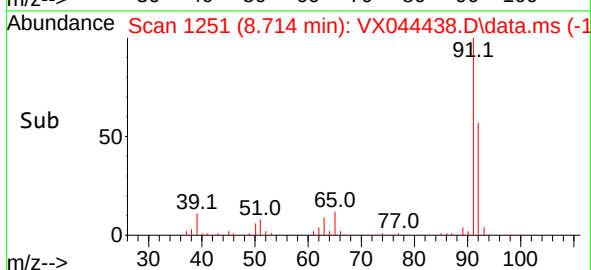
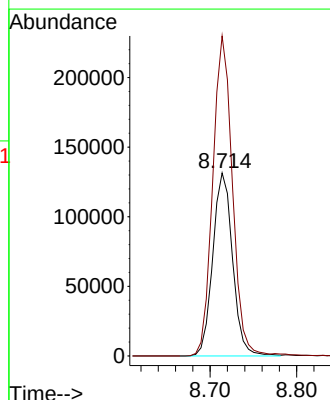
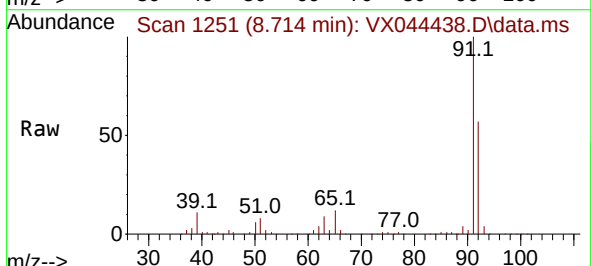
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

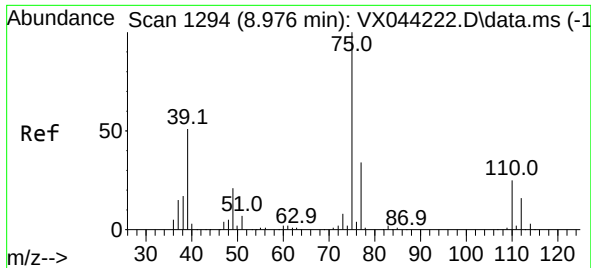
Tgt Ion: 43 Resp: 647258
Ion Ratio Lower Upper
43 100
58 37.4 29.4 44.0



#52
Toluene
Concen: 54.120 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 92 Resp: 208798
Ion Ratio Lower Upper
92 100
91 174.6 137.0 205.6





#53

t-1,3-Dichloropropene

Concen: 51.640 ug/l

RT: 8.976 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

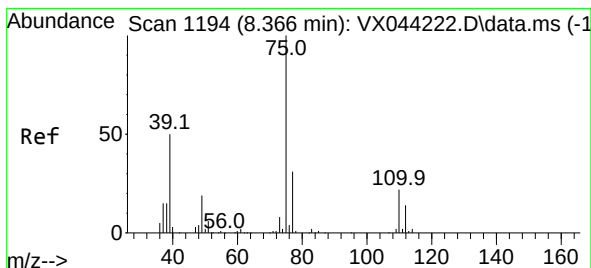
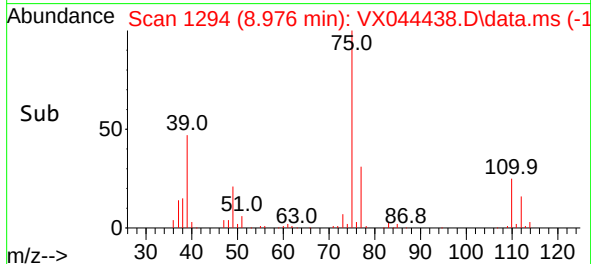
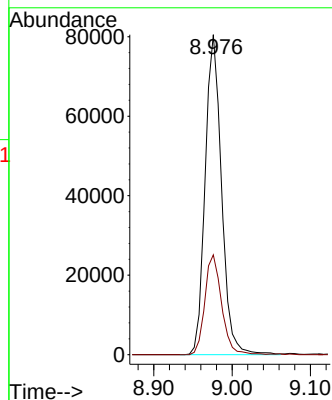
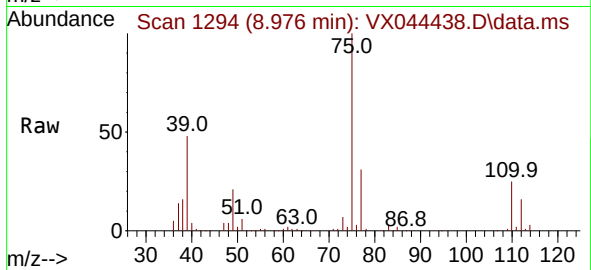
VSTDCCC050

Tgt Ion: 75 Resp: 116841

Ion Ratio Lower Upper

75 100

77 31.2 27.2 40.8



#54

cis-1,3-Dichloropropene

Concen: 56.913 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. -0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

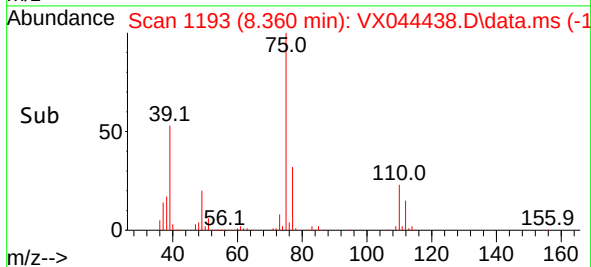
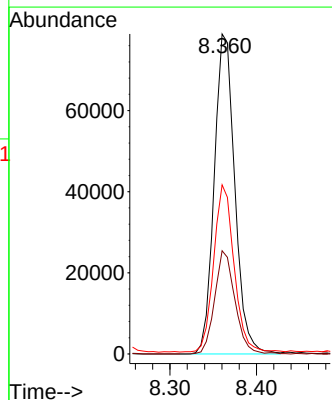
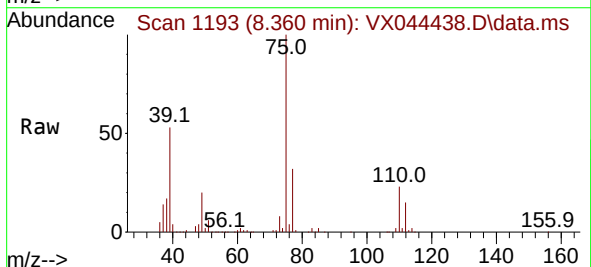
Tgt Ion: 75 Resp: 130320

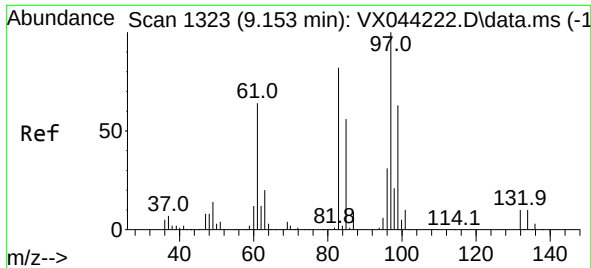
Ion Ratio Lower Upper

75 100

77 32.2 24.7 37.1

39 52.3 40.3 60.5

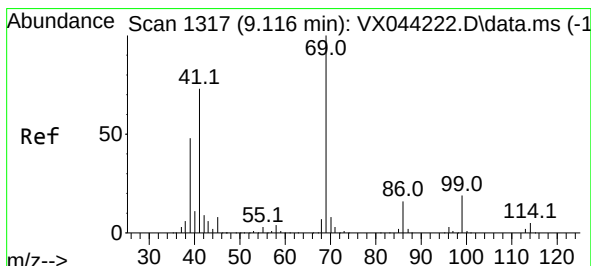
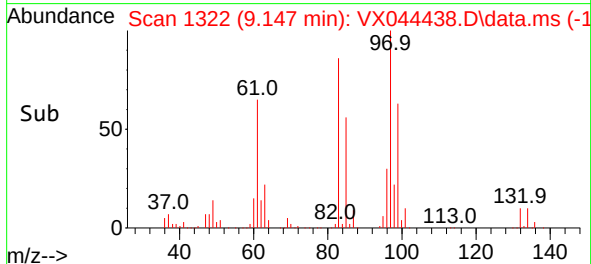
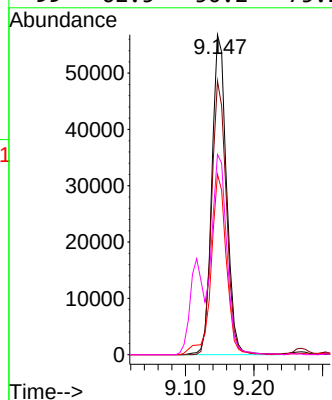
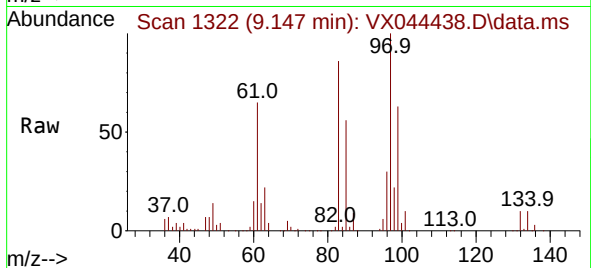




#55
1,1,2-Trichloroethane
Concen: 55.124 ug/l
RT: 9.147 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

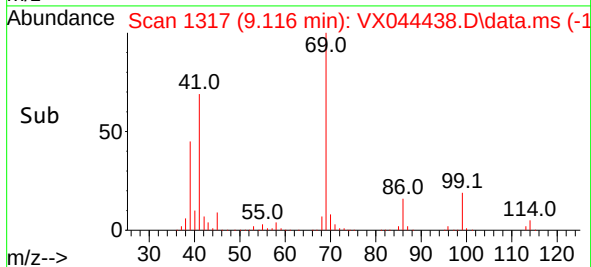
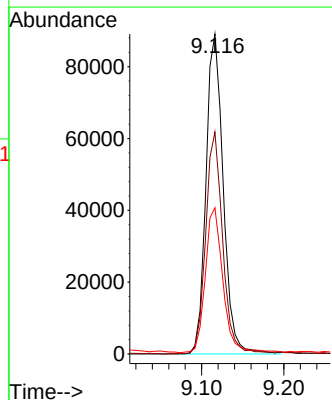
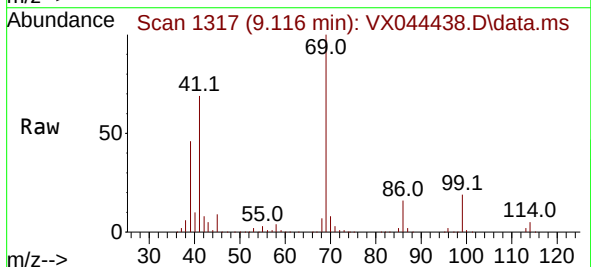
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

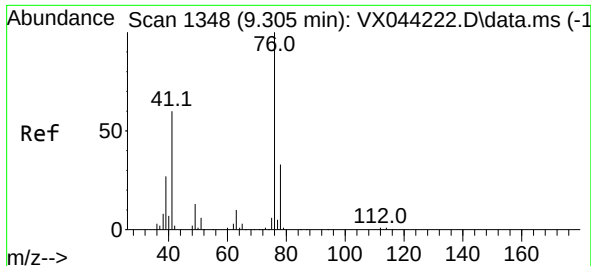
Tgt Ion: 97	Resp: 84487
Ion Ratio	Lower Upper
97 100	
83 85.6	65.3 97.9
85 56.4	44.6 67.0
99 62.5	50.2 75.2



#56
Ethyl methacrylate
Concen: 53.800 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 69	Resp: 130175
Ion Ratio	Lower Upper
69 100	
41 68.3	56.6 85.0
39 46.2	37.4 56.0





#57

1,3-Dichloropropane

Concen: 53.824 ug/l

RT: 9.305 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

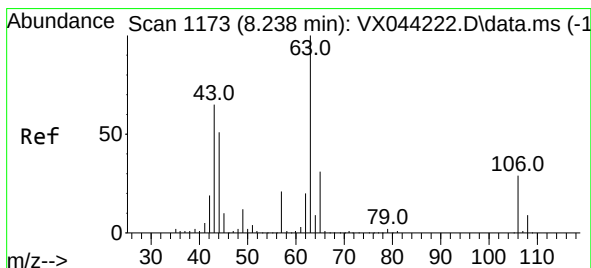
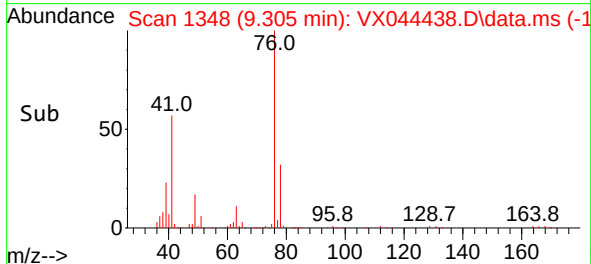
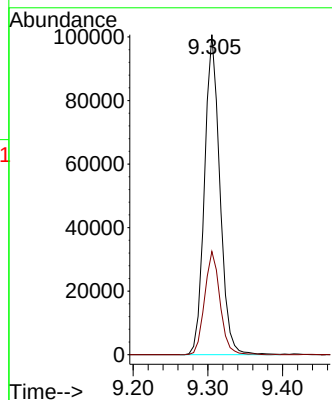
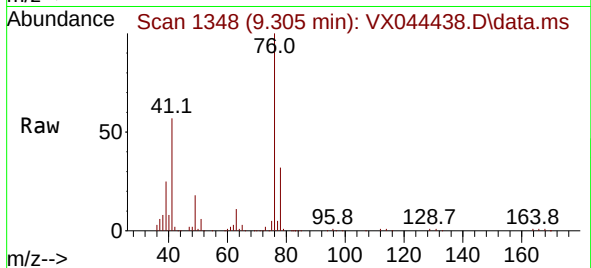
VSTDCCC050

Tgt Ion: 76 Resp: 143590

Ion Ratio Lower Upper

76 100

78 32.4 26.5 39.7



#58

2-Chloroethyl Vinyl ether

Concen: 252.070 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX044438.D

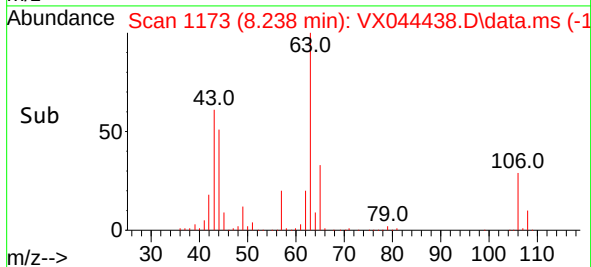
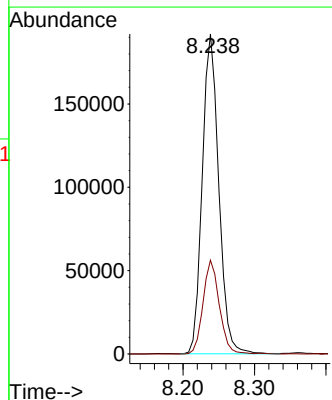
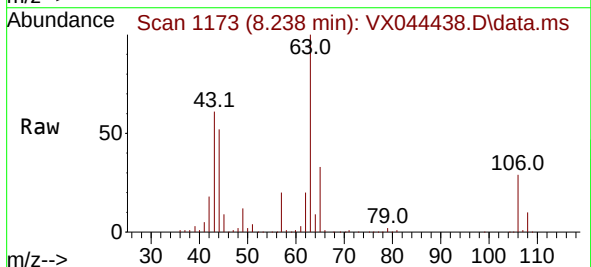
Acq: 20 Dec 2024 09:16

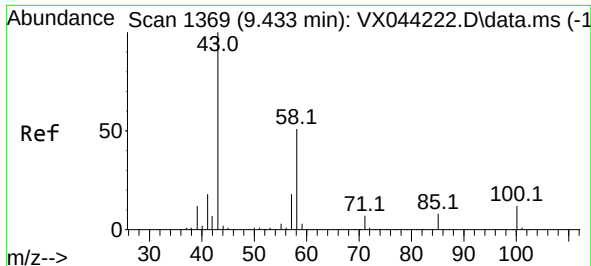
Tgt Ion: 63 Resp: 307620

Ion Ratio Lower Upper

63 100

106 29.0 22.8 34.2





#59

2-Hexanone

Concen: 256.860 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

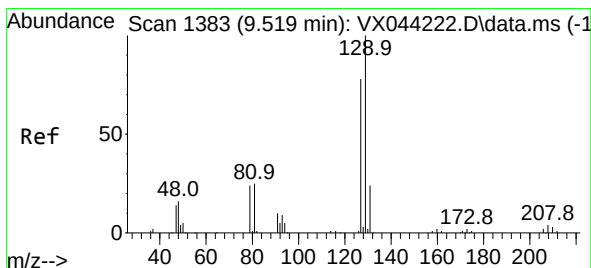
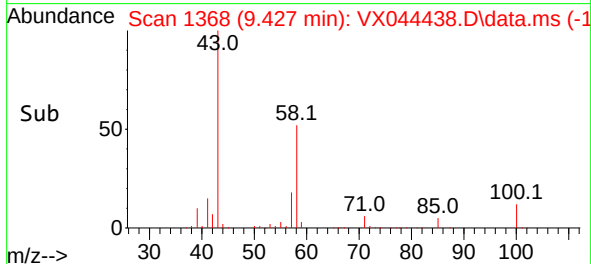
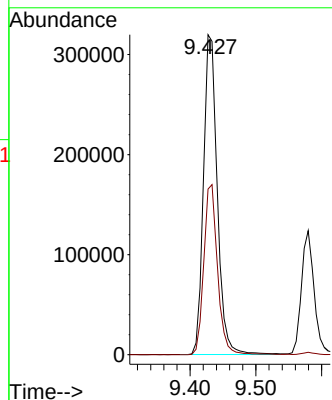
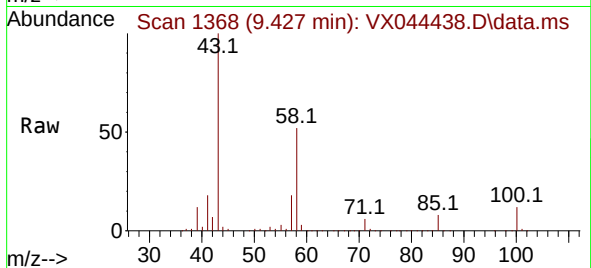
VSTDCCC050

Tgt Ion: 43 Resp: 467347

Ion Ratio Lower Upper

43 100

58 53.0 25.7 77.0



#60

Dibromochloromethane

Concen: 52.901 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX044438.D

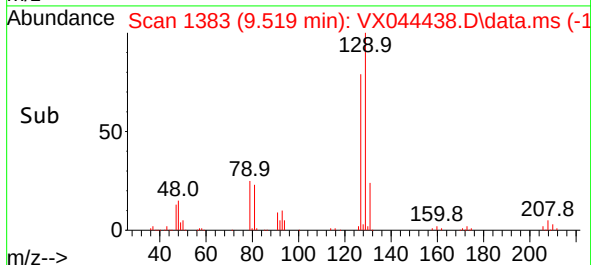
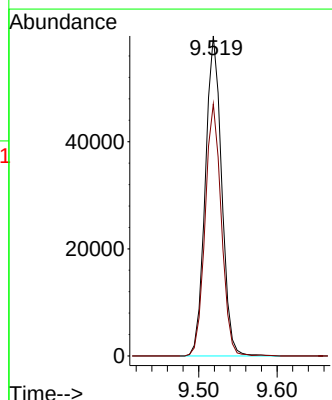
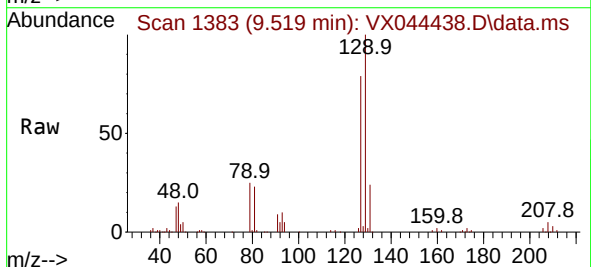
Acq: 20 Dec 2024 09:16

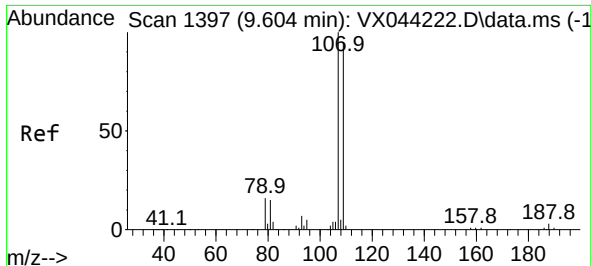
Tgt Ion: 129 Resp: 86207

Ion Ratio Lower Upper

129 100

127 78.0 38.5 115.3

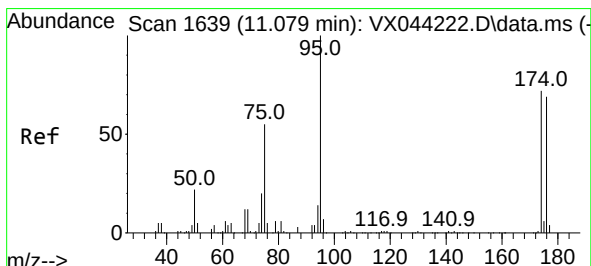
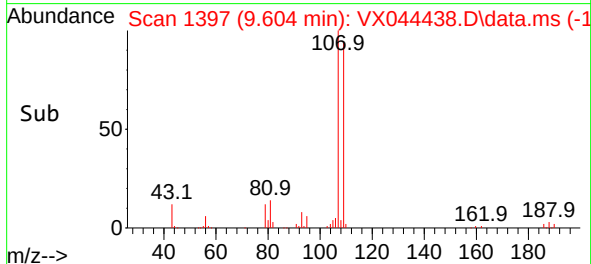
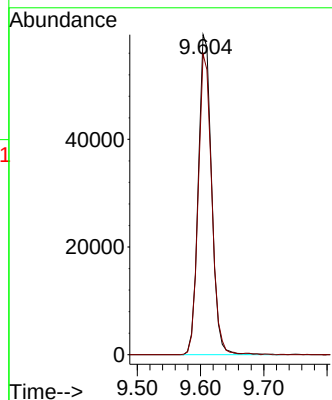
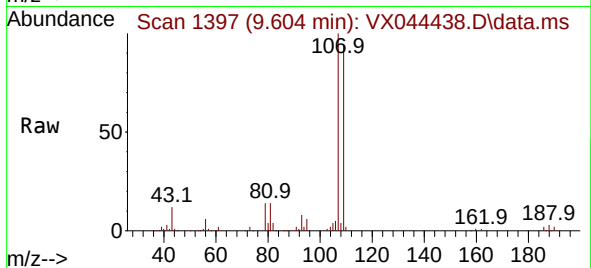




#61
1,2-Dibromoethane
Concen: 55.721 ug/l
RT: 9.604 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

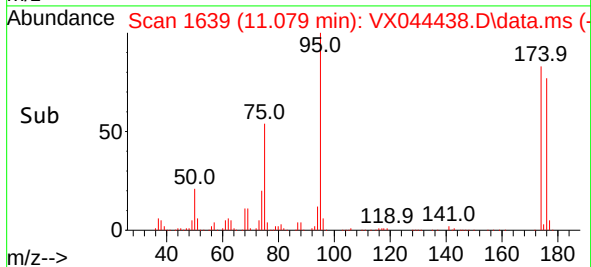
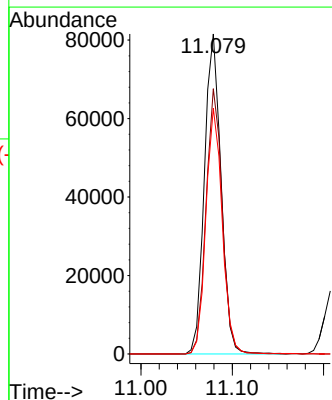
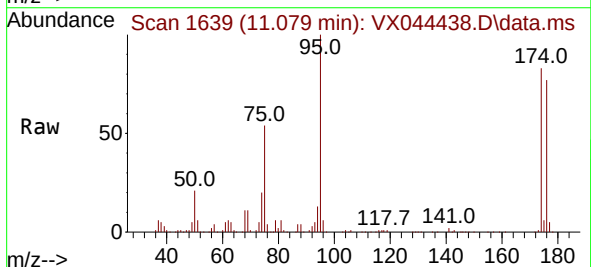
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

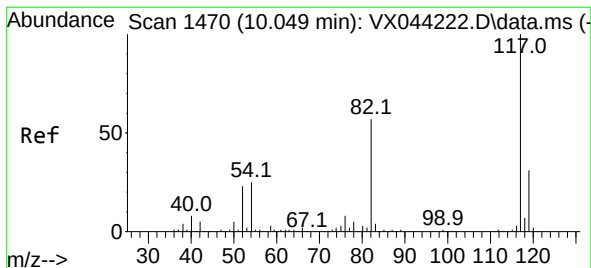
Tgt Ion:107 Resp: 86930
Ion Ratio Lower Upper
107 100
109 95.3 77.0 115.4



#62
4-Bromofluorobenzene
Concen: 55.640 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 95 Resp: 102676
Ion Ratio Lower Upper
95 100
174 81.4 0.0 145.8
176 75.6 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

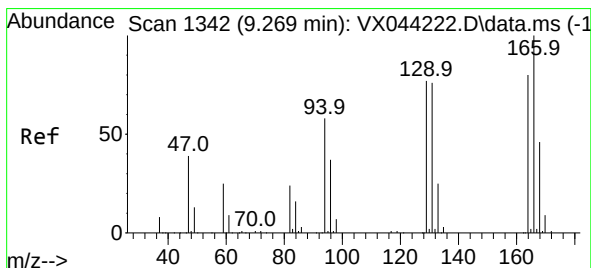
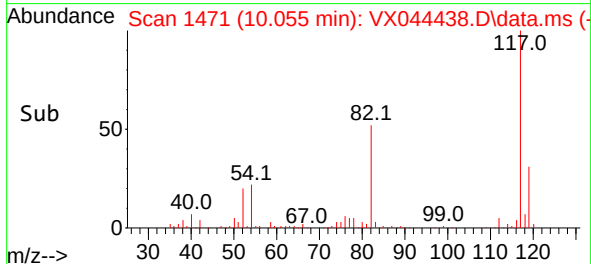
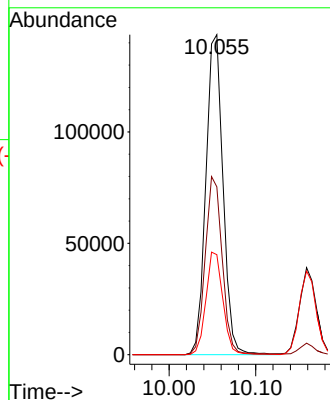
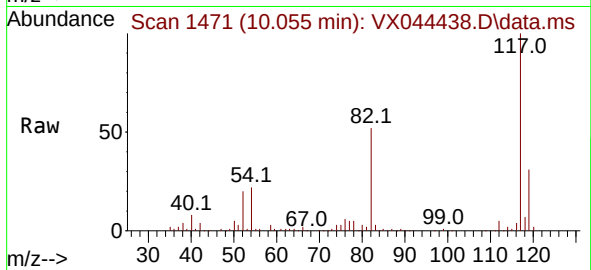
Tgt Ion:117 Resp: 197543

Ion Ratio Lower Upper

117 100

82 52.5 45.8 68.8

119 31.3 25.0 37.4



#64

Tetrachloroethene

Concen: 57.001 ug/l

RT: 9.269 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Tgt Ion:164 Resp: 74735

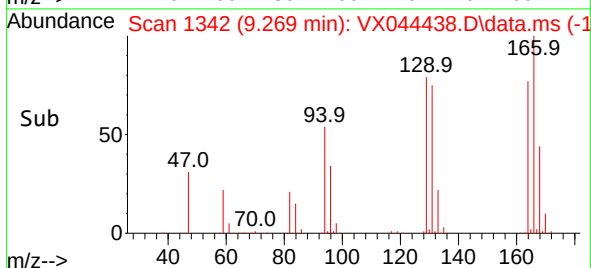
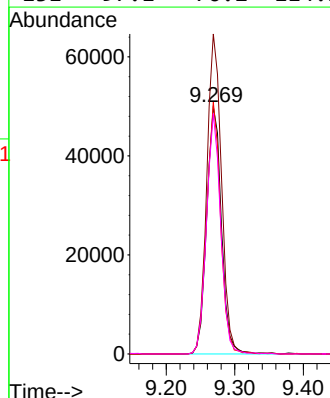
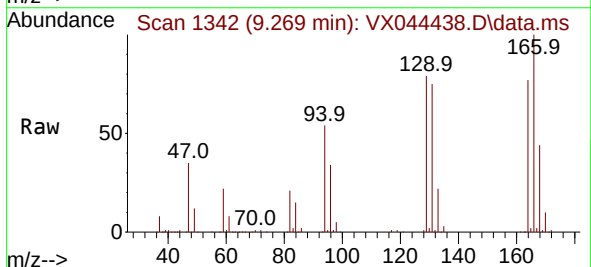
Ion Ratio Lower Upper

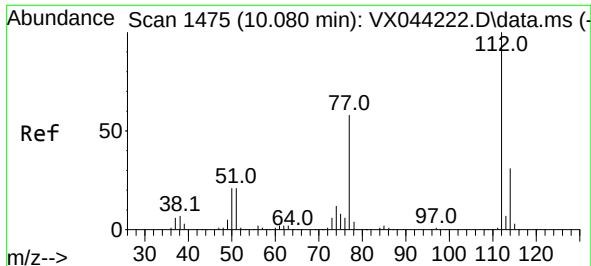
164 100

166 129.3 100.4 150.6

129 101.8 77.2 115.8

131 97.1 76.2 114.2





#65

Chlorobenzene

Concen: 55.402 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

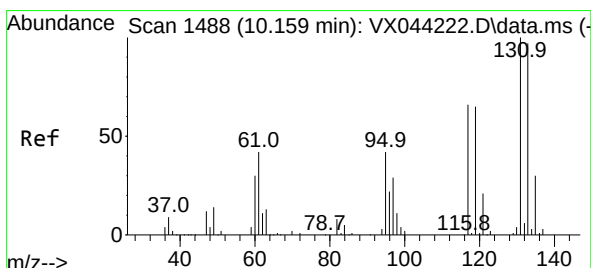
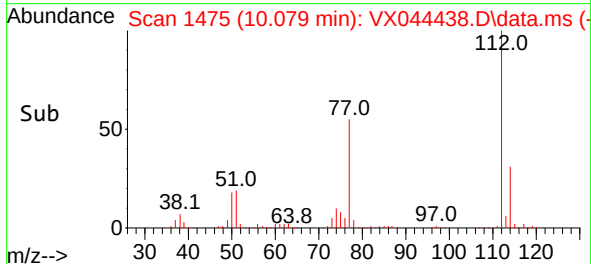
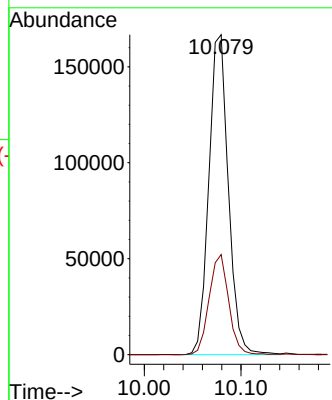
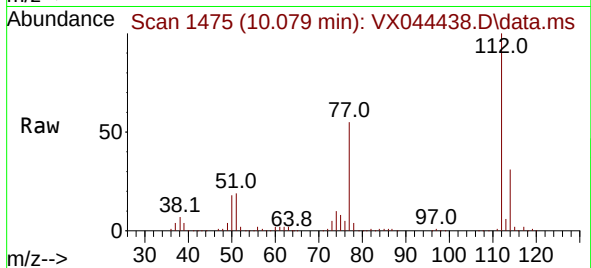
VSTDCCC050

Tgt Ion:112 Resp: 234513

Ion Ratio Lower Upper

112 100

114 31.3 25.0 37.6



#66

1,1,1,2-Tetrachloroethane

Concen: 56.959 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

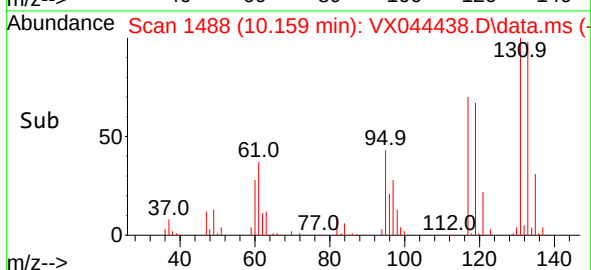
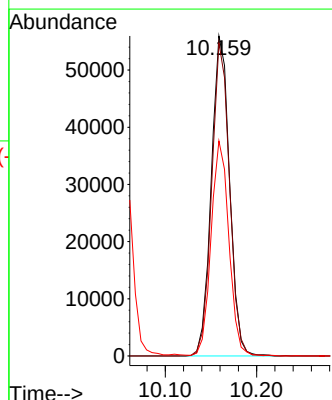
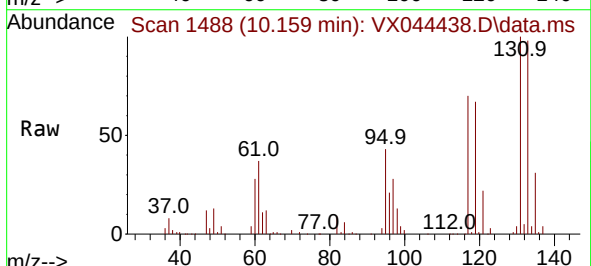
Tgt Ion:131 Resp: 77487

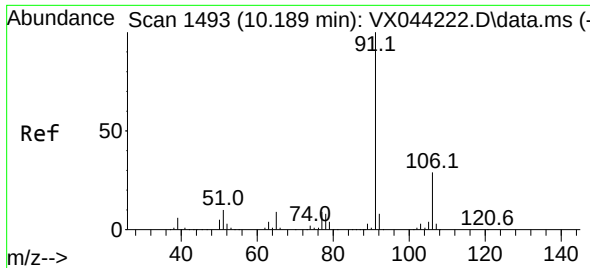
Ion Ratio Lower Upper

131 100

133 95.5 47.3 141.8

119 65.6 31.6 95.0

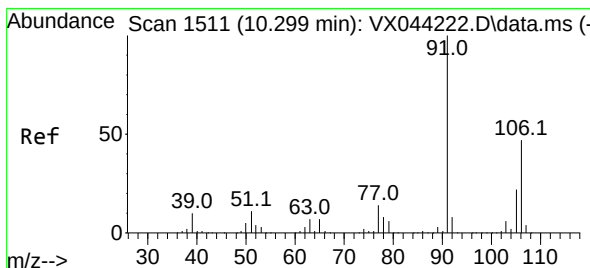
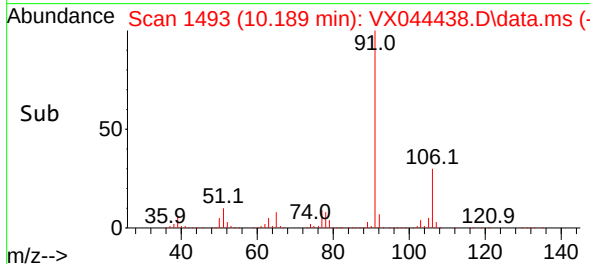
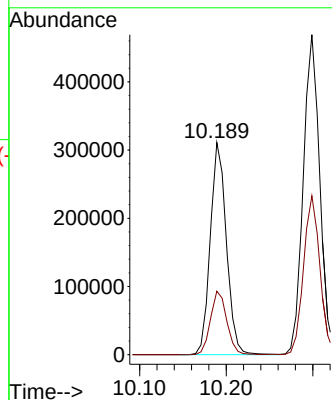
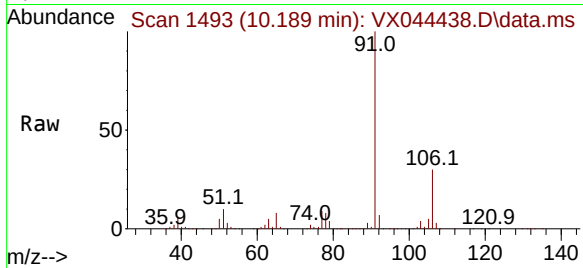




#67
Ethyl Benzene
Concen: 54.936 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

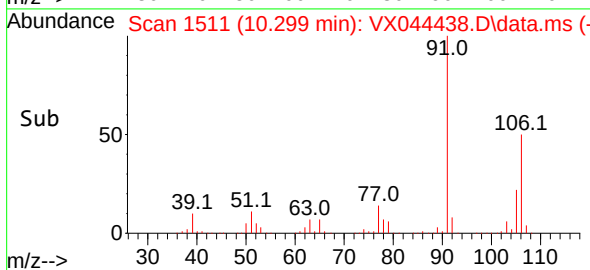
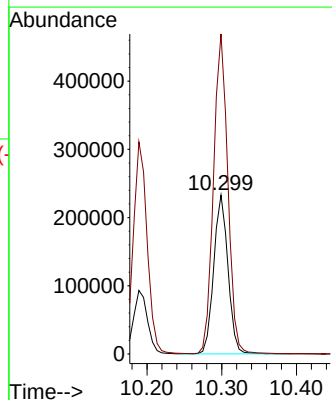
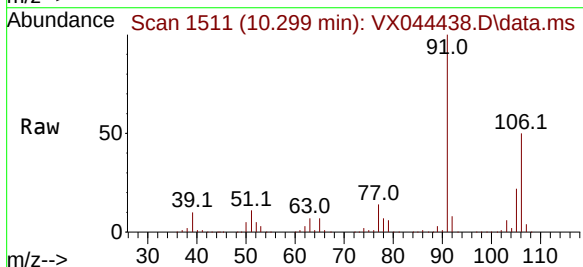
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

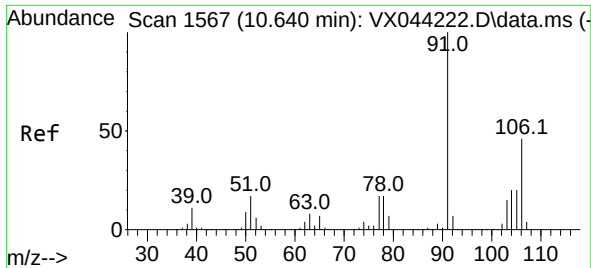
Tgt Ion: 91 Resp: 401792
Ion Ratio Lower Upper
91 100
106 29.9 23.5 35.3



#68
m/p-Xylenes
Concen: 114.771 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 106 Resp: 308013
Ion Ratio Lower Upper
106 100
91 202.5 170.2 255.2

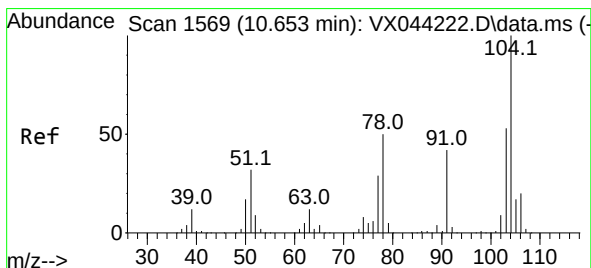
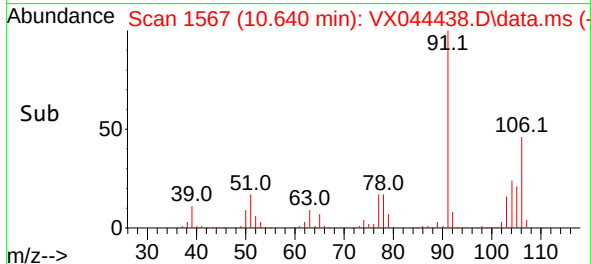
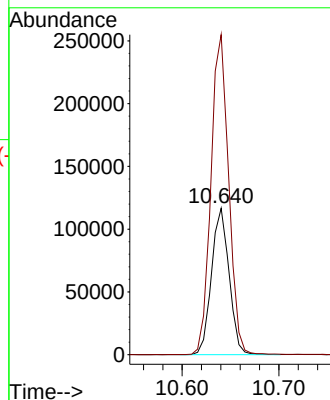
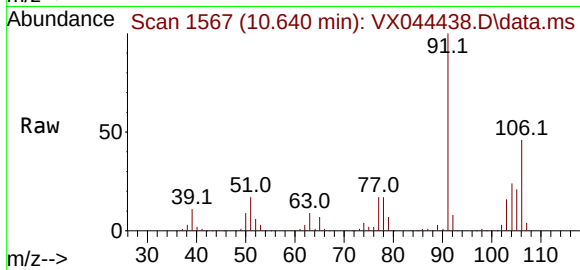




#69
o-Xylene
Concen: 54.389 ug/l
RT: 10.640 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

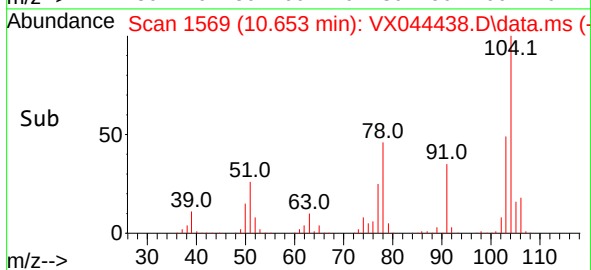
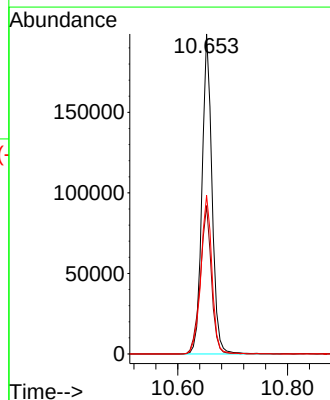
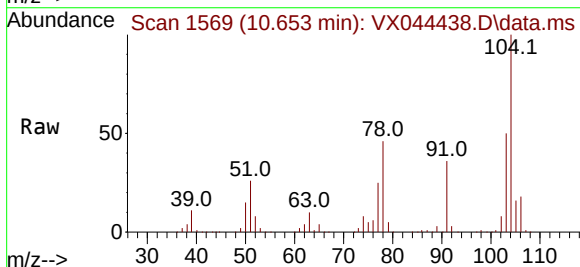
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

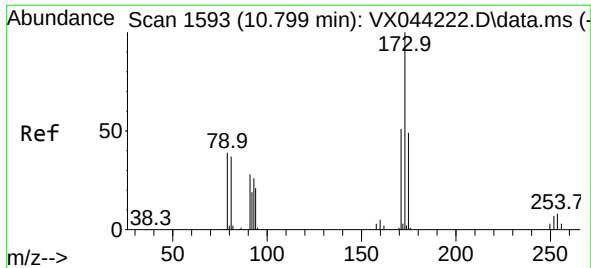
Tgt Ion:106 Resp: 147688
Ion Ratio Lower Upper
106 100
91 220.8 112.3 337.0



#70
Styrene
Concen: 57.862 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:104 Resp: 251875
Ion Ratio Lower Upper
104 100
78 51.5 44.6 67.0
103 54.8 45.4 68.0

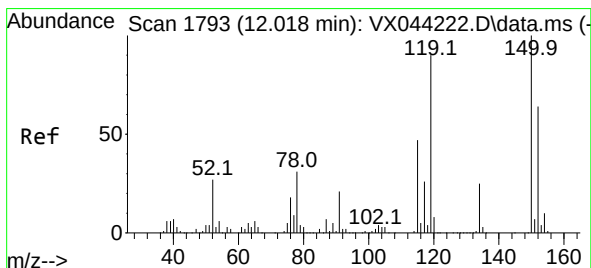
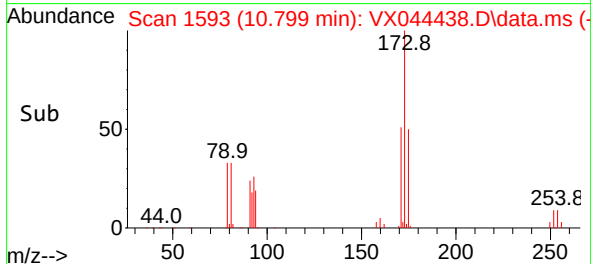
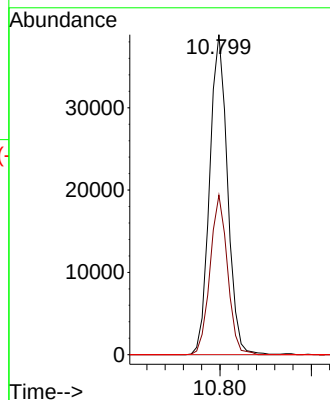
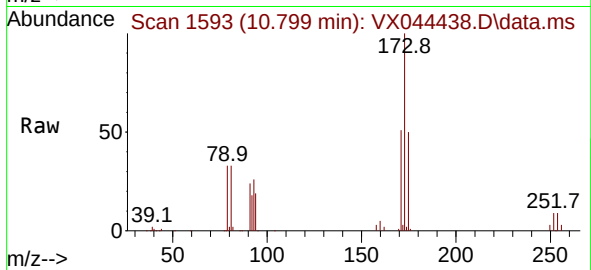




#71
Bromoform
Concen: 54.671 ug/l
RT: 10.799 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

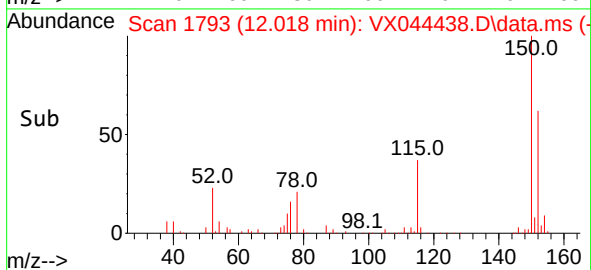
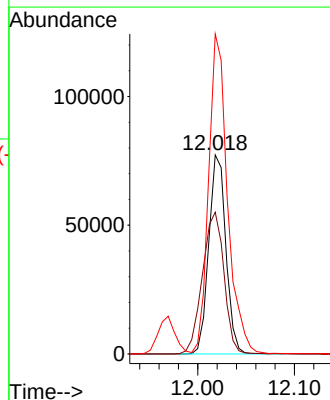
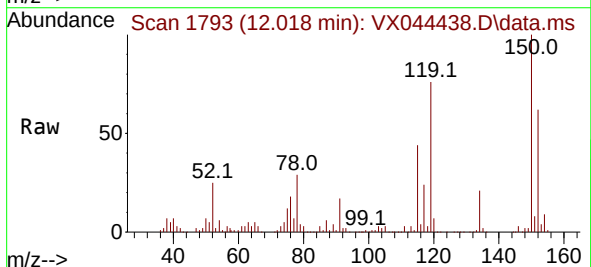
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

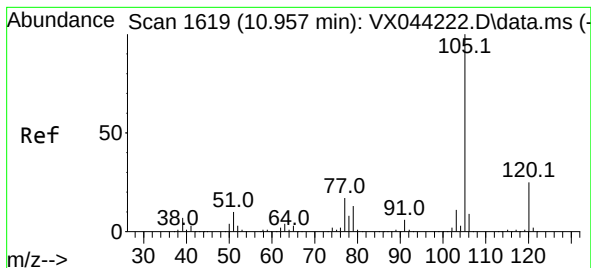
Tgt Ion:173 Resp: 52602
Ion Ratio Lower Upper
173 100
175 48.7 23.8 71.4
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:152 Resp: 95339
Ion Ratio Lower Upper
152 100
115 89.6 44.5 133.3
150 177.4 0.0 353.8





#73

Isopropylbenzene

Concen: 53.495 ug/l

RT: 10.957 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

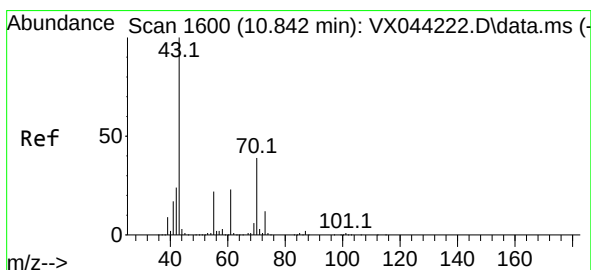
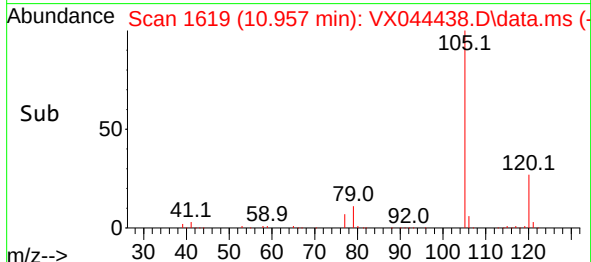
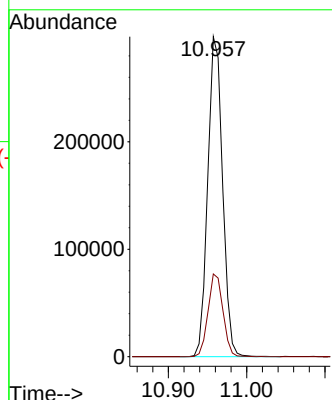
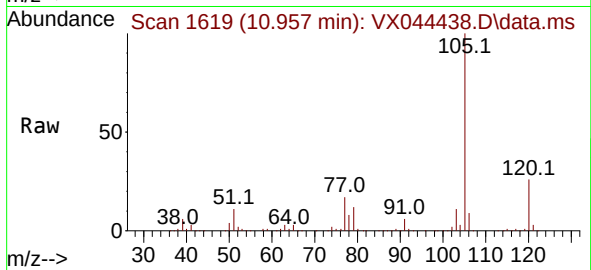
VSTDCCC050

Tgt Ion:105 Resp: 390438

Ion Ratio Lower Upper

105 100

120 26.0 13.1 39.3



#74

N-ethyl acetate

Concen: 50.885 ug/l

RT: 10.842 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 171638

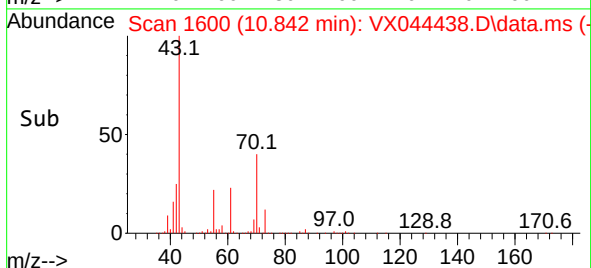
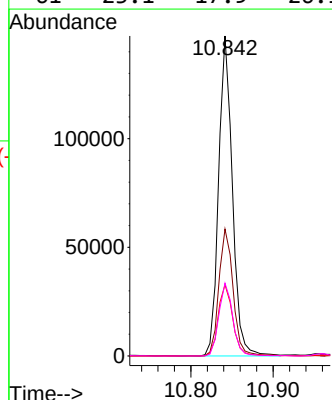
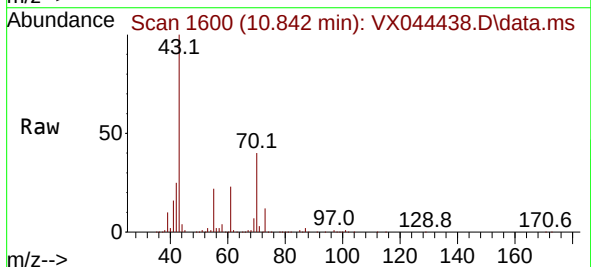
Ion Ratio Lower Upper

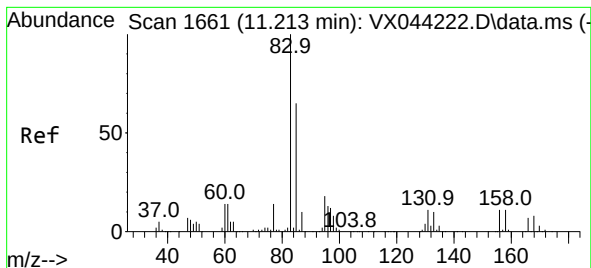
43 100

70 41.1 31.9 47.9

55 23.7 17.9 26.9

61 23.1 17.9 26.9





#75

1,1,2,2-Tetrachloroethane

Concen: 52.145 ug/l

RT: 11.213 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

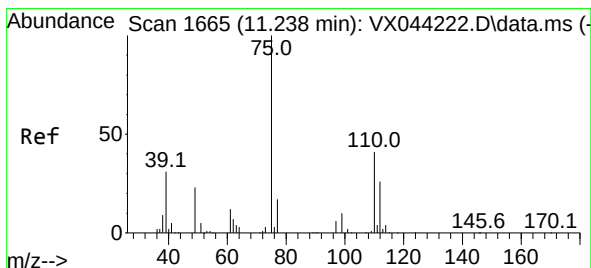
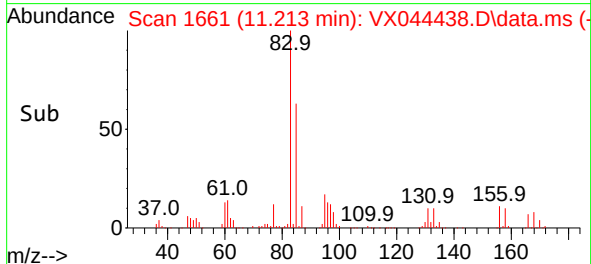
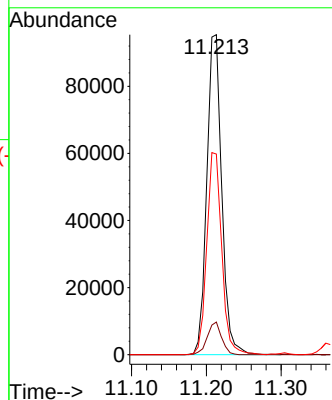
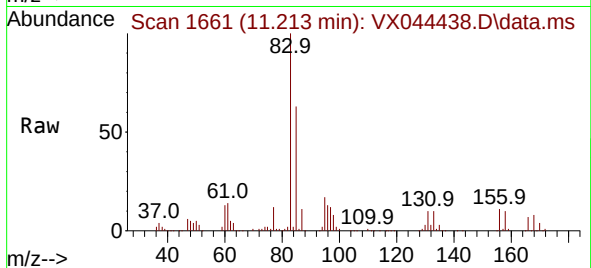
Tgt Ion: 83 Resp: 132190

Ion Ratio Lower Upper

83 100

131 9.8 5.1 15.4

85 63.4 32.5 97.4



#76

1,2,3-Trichloropropane

Concen: 65.305 ug/l

RT: 11.238 min Scan# 1665

Delta R.T. -0.000 min

Lab File: VX044438.D

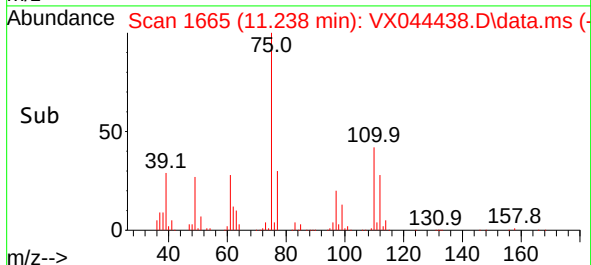
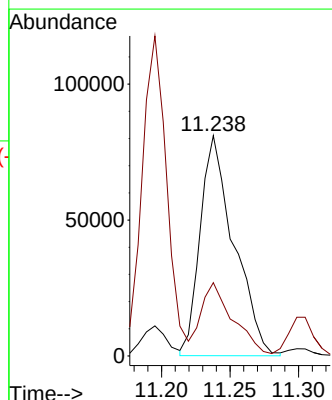
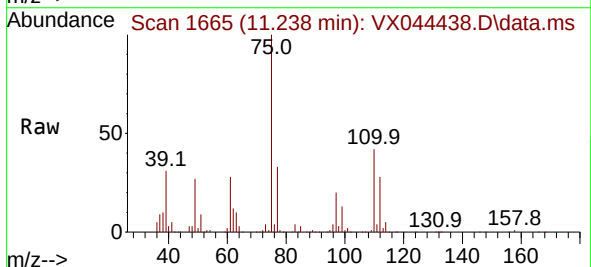
Acq: 20 Dec 2024 09:16

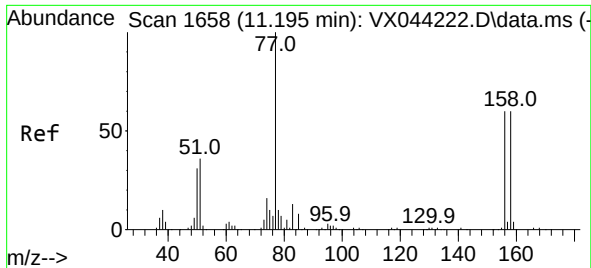
Tgt Ion: 75 Resp: 139014

Ion Ratio Lower Upper

75 100

77 31.7 20.9 62.7

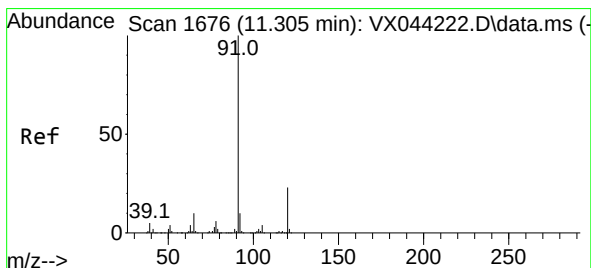
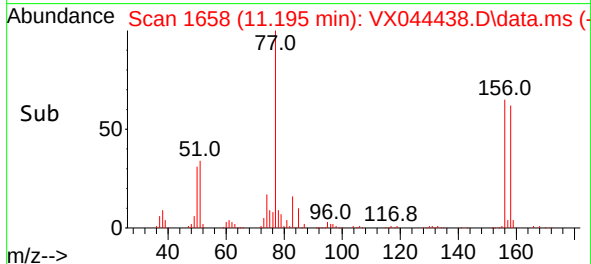
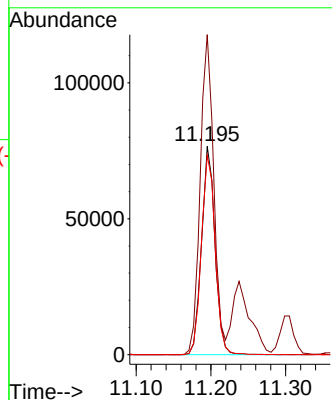
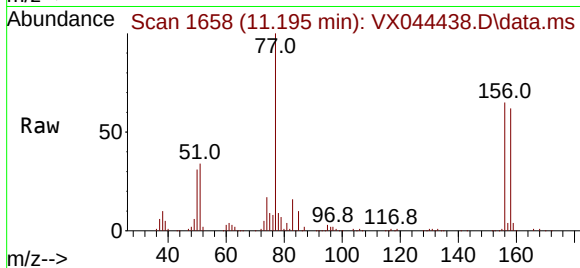




#77
Bromobenzene
Concen: 53.953 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

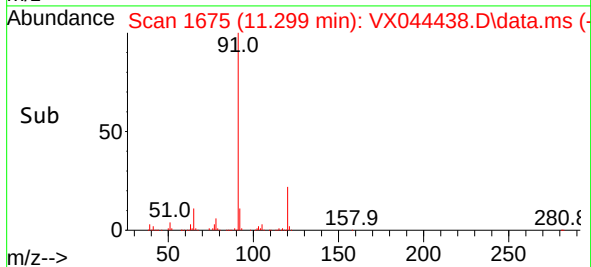
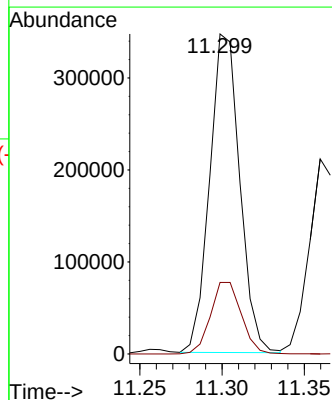
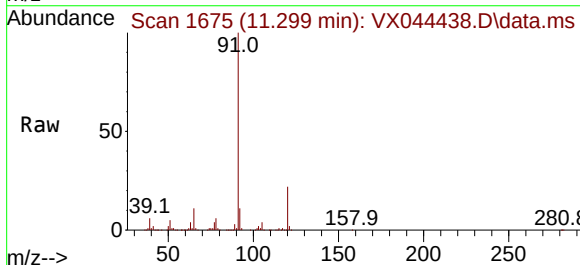
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

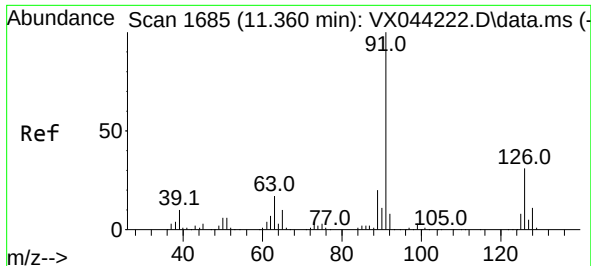
Tgt Ion:156 Resp: 95489
Ion Ratio Lower Upper
156 100
77 155.1 82.6 247.8
158 98.5 48.8 146.4



#78
n-propylbenzene
Concen: 54.741 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 91 Resp: 441589
Ion Ratio Lower Upper
91 100
120 23.1 11.0 33.0

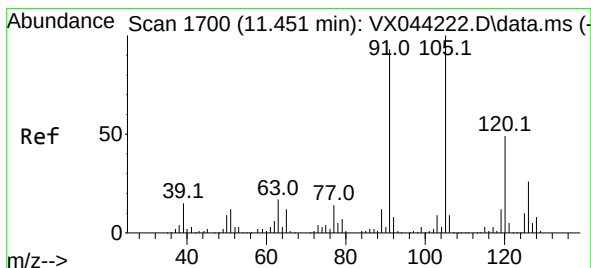
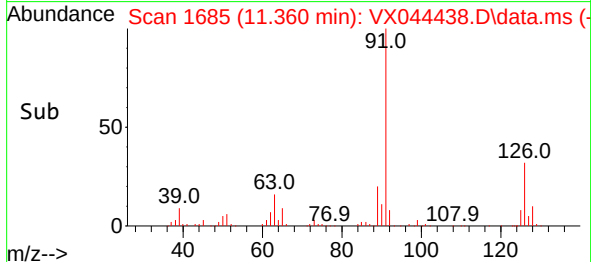
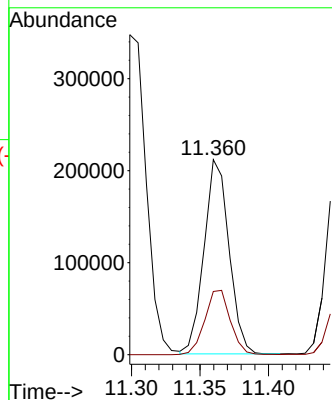
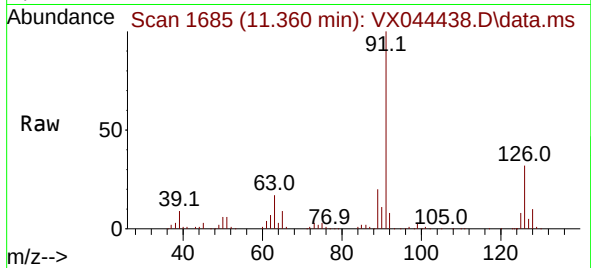




#79
2-Chlorotoluene
Concen: 51.311 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

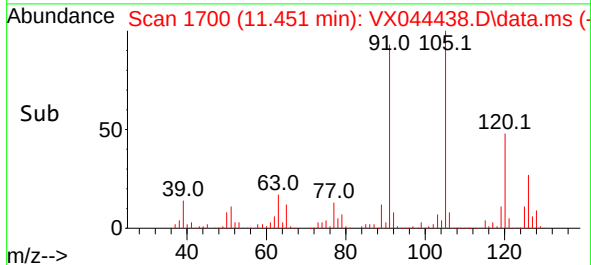
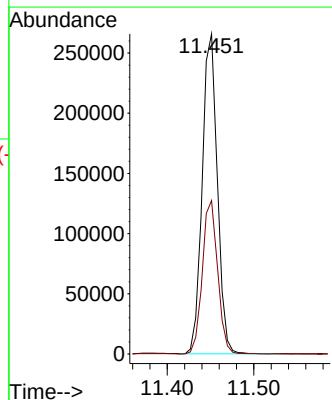
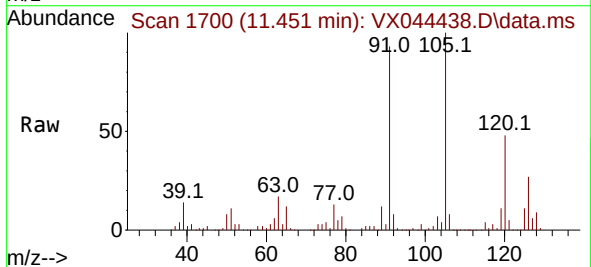
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

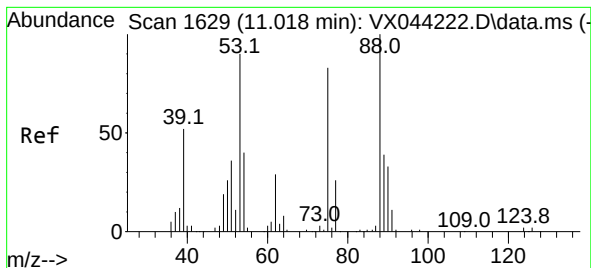
Tgt Ion: 91 Resp: 267690
Ion Ratio Lower Upper
91 100
126 33.9 16.4 49.1



#80
1,3,5-Trimethylbenzene
Concen: 53.284 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 105 Resp: 322510
Ion Ratio Lower Upper
105 100
120 48.5 23.8 71.4

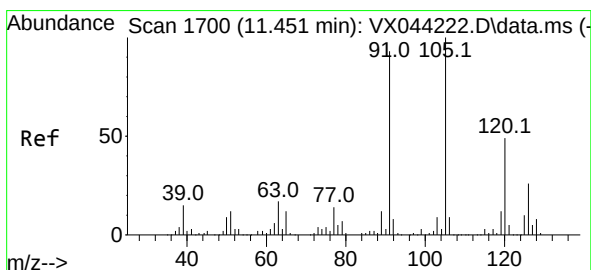
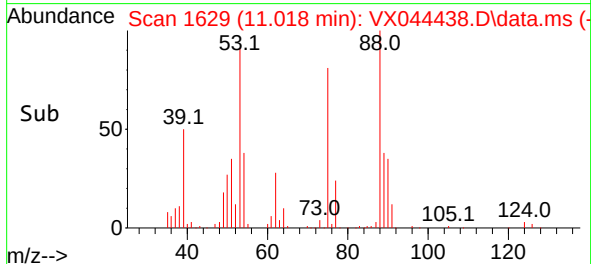
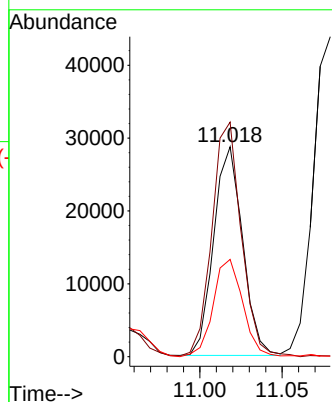
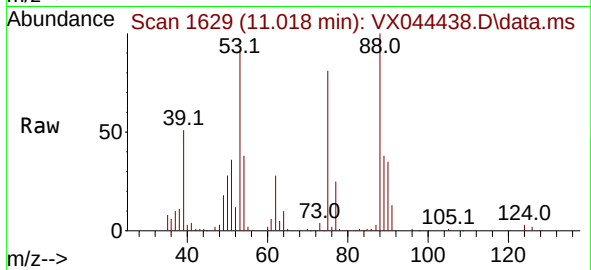




#81
trans-1,4-Dichloro-2-butene
Concen: 47.498 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

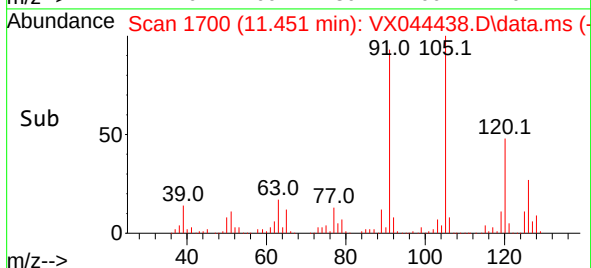
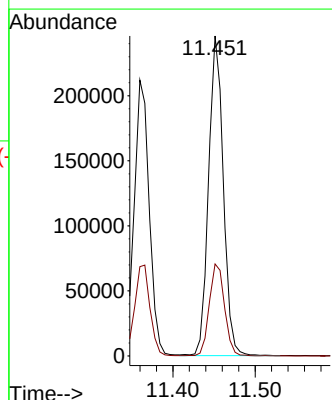
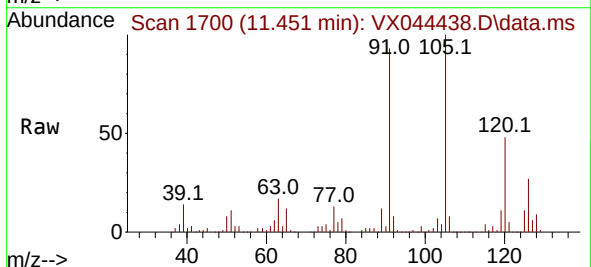
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

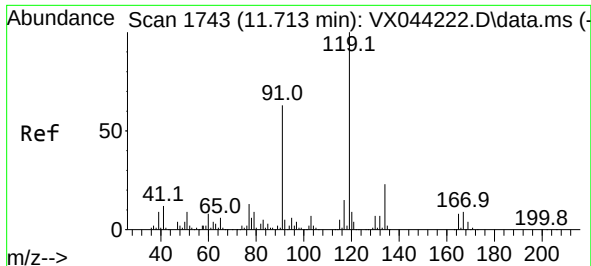
Tgt Ion:	75	Resp:	35051
Ion	Ratio	Lower	Upper
75	100		
53	114.3	93.6	140.4
89	47.8	37.3	55.9



#82
4-Chlorotoluene
Concen: 52.929 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:	91	Resp:	305777
Ion	Ratio	Lower	Upper
91	100		
126	29.7	14.5	43.5

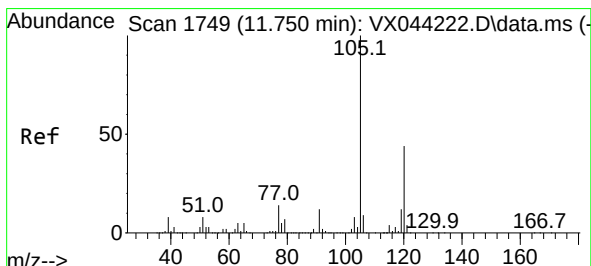
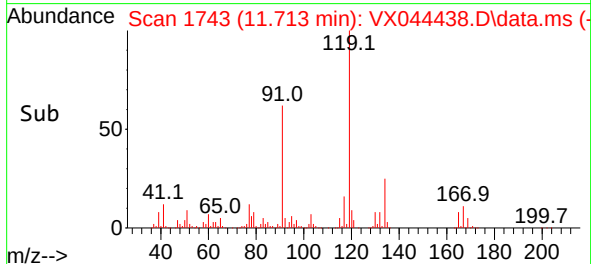
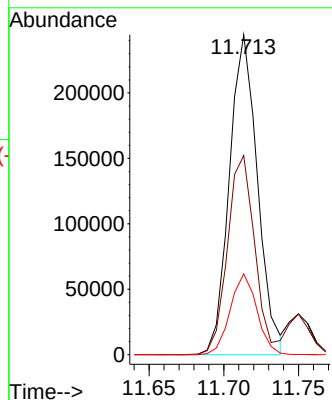
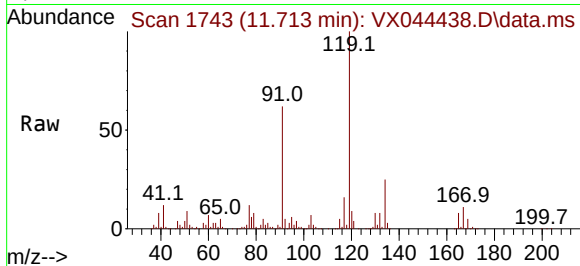




#83
tert-Butylbenzene
Concen: 53.600 ug/l
RT: 11.713 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

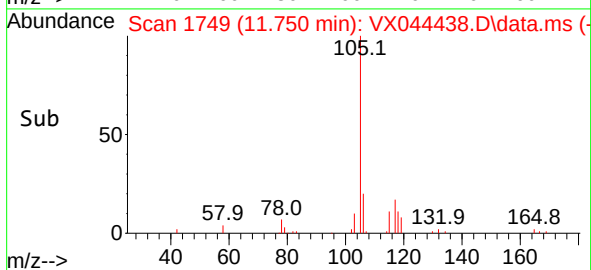
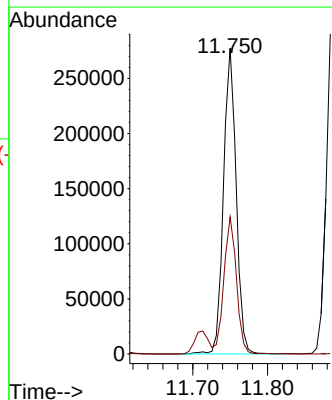
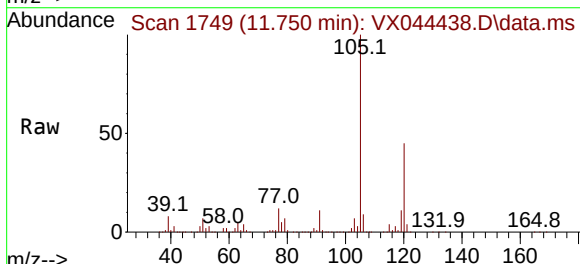
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

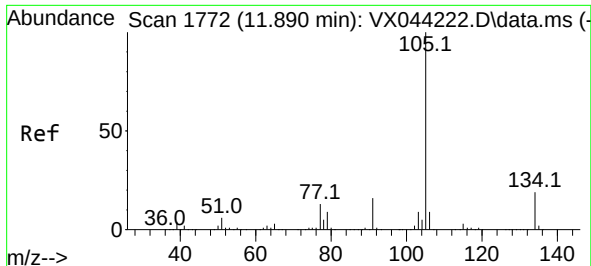
Tgt Ion:119 Resp: 320615
Ion Ratio Lower Upper
119 100
91 59.4 30.9 92.5
134 24.0 11.5 34.4



#84
1,2,4-Trimethylbenzene
Concen: 55.123 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:105 Resp: 327657
Ion Ratio Lower Upper
105 100
120 44.6 21.7 65.1

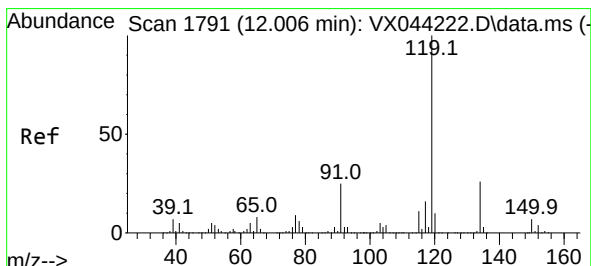
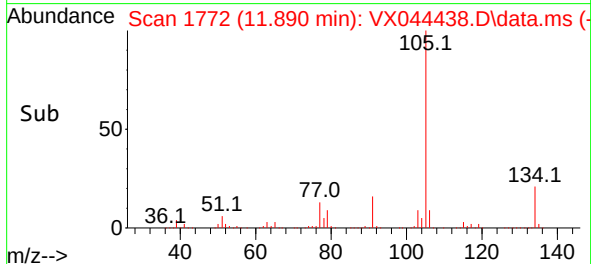
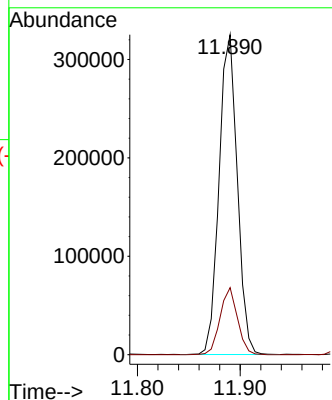
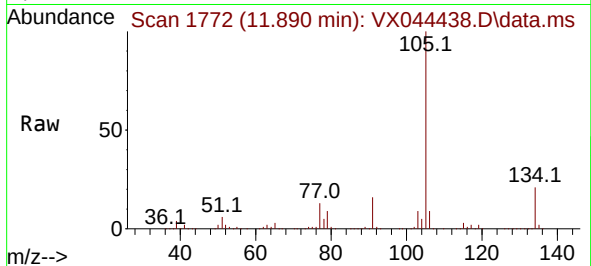




#85
sec-Butylbenzene
Concen: 54.989 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

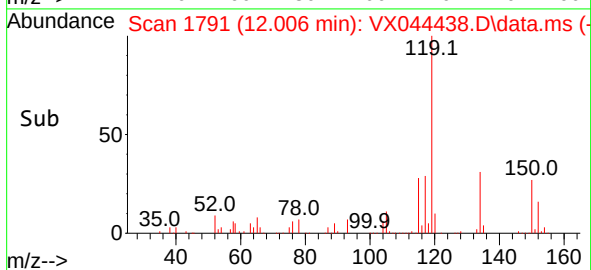
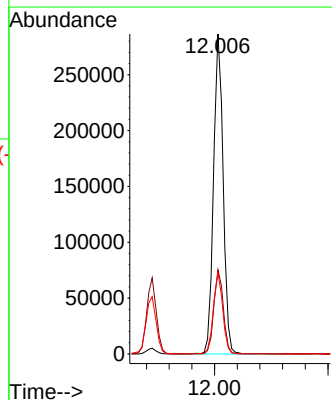
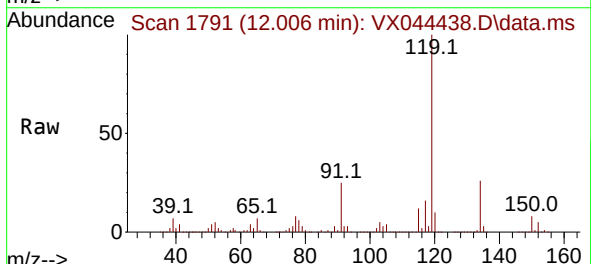
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

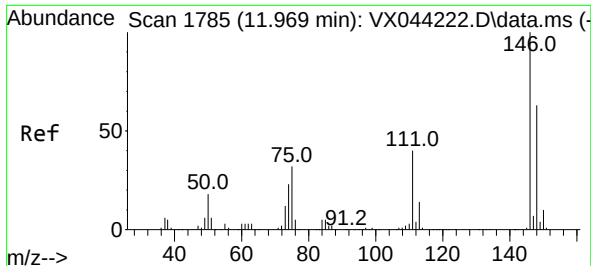
Tgt Ion:105 Resp: 399310
Ion Ratio Lower Upper
105 100
134 20.1 9.8 29.4



#86
p-Isopropyltoluene
Concen: 55.691 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:119 Resp: 336593
Ion Ratio Lower Upper
119 100
134 26.0 12.8 38.4
91 24.8 13.0 39.0





#87

1,3-Dichlorobenzene

Concen: 55.839 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

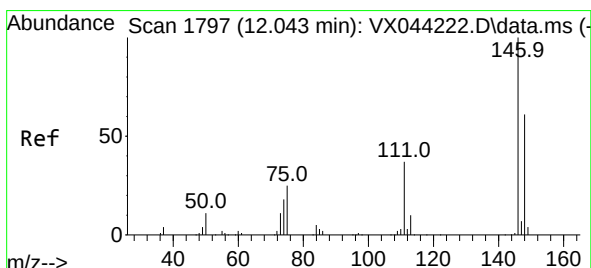
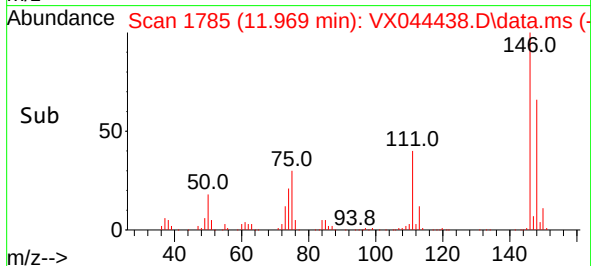
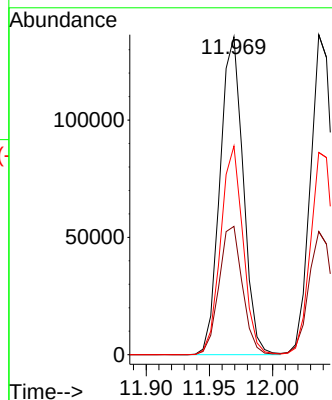
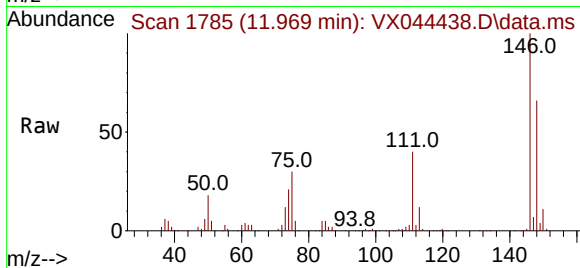
Tgt Ion:146 Resp: 172628

Ion Ratio Lower Upper

146 100

111 40.7 21.4 64.2

148 63.2 31.7 95.1



#88

1,4-Dichlorobenzene

Concen: 53.422 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. -0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

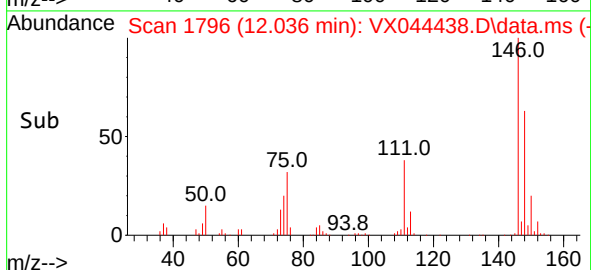
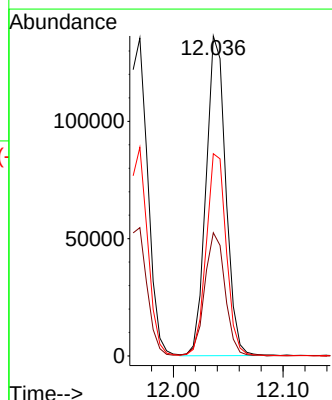
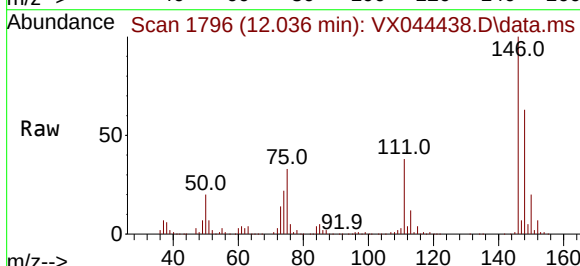
Tgt Ion:146 Resp: 169778

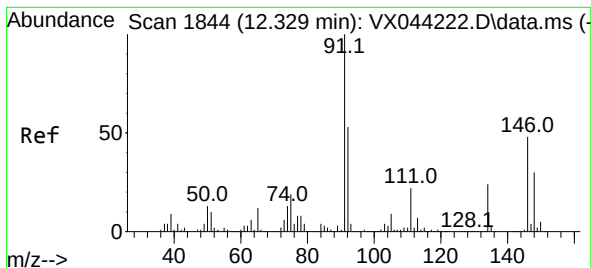
Ion Ratio Lower Upper

146 100

111 39.9 21.0 63.0

148 65.0 32.3 96.8





#89

n-Butylbenzene

Concen: 57.503 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

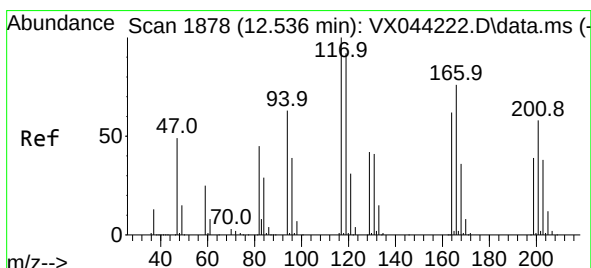
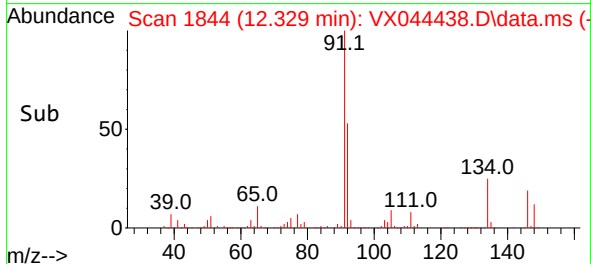
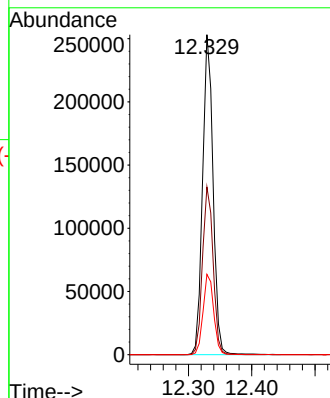
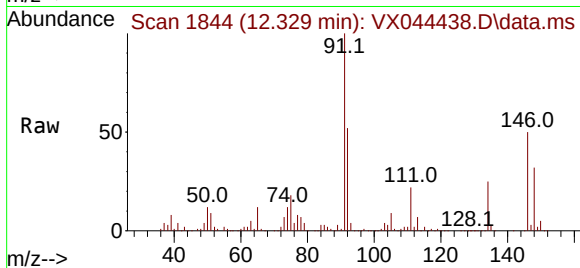
Tgt Ion: 91 Resp: 292244

Ion Ratio Lower Upper

91 100

92 53.4 26.6 79.7

134 25.5 12.6 37.8



#90

Hexachloroethane

Concen: 57.385 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX044438.D

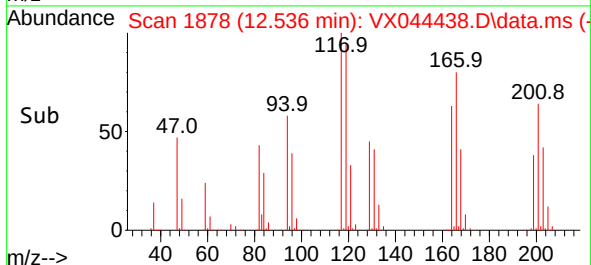
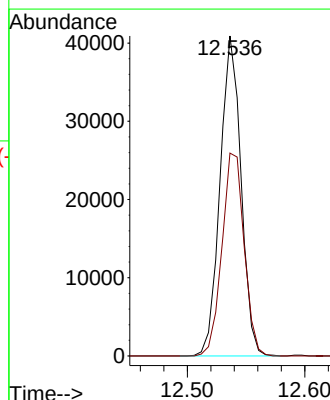
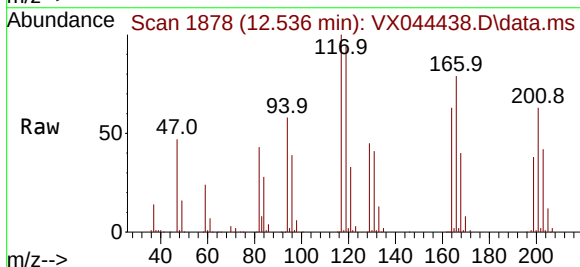
Acq: 20 Dec 2024 09:16

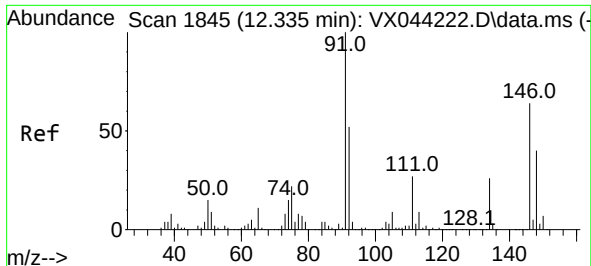
Tgt Ion: 117 Resp: 50629

Ion Ratio Lower Upper

117 100

201 67.2 31.4 94.2

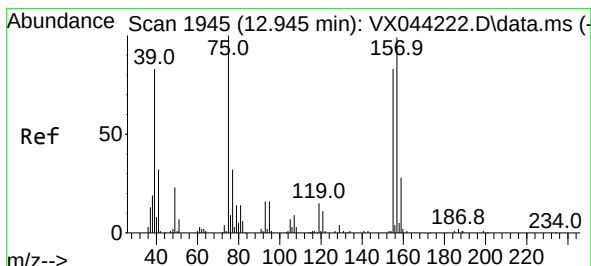
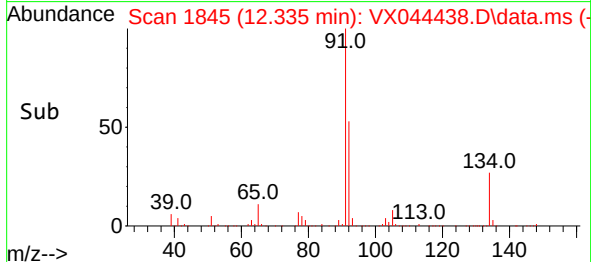
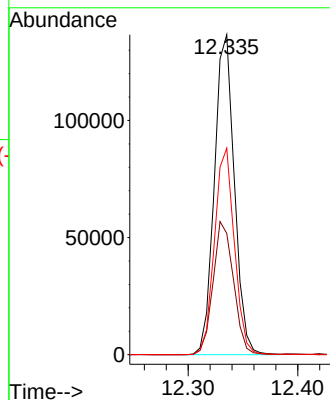
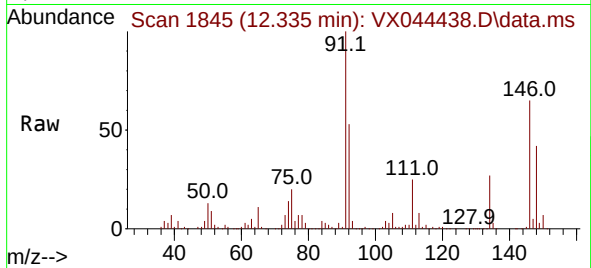




#91
1,2-Dichlorobenzene
Concen: 54.042 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

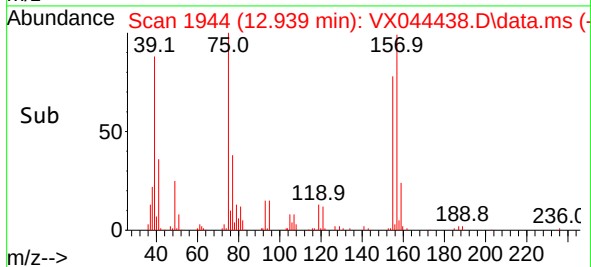
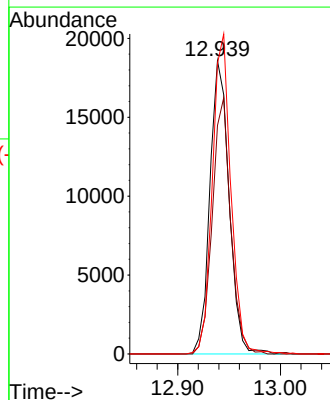
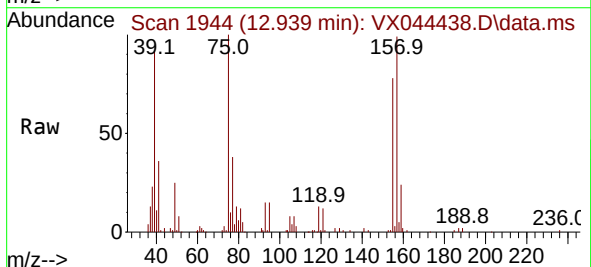
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

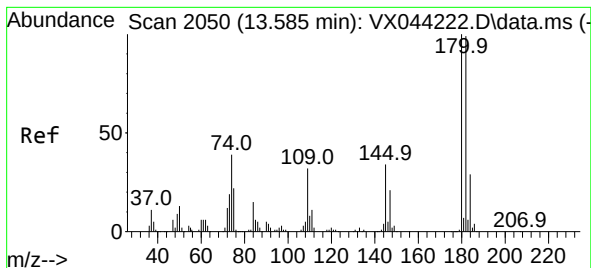
Tgt Ion:146 Resp: 173478
Ion Ratio Lower Upper
146 100
111 42.5 21.4 64.3
148 64.2 31.6 95.0



#92
1,2-Dibromo-3-Chloropropane
Concen: 49.022 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 24124
Ion Ratio Lower Upper
75 100
155 83.8 38.1 114.3
157 105.4 47.2 141.6

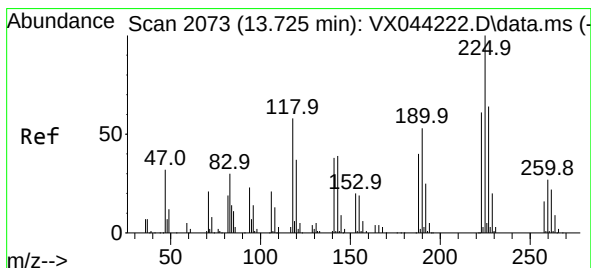
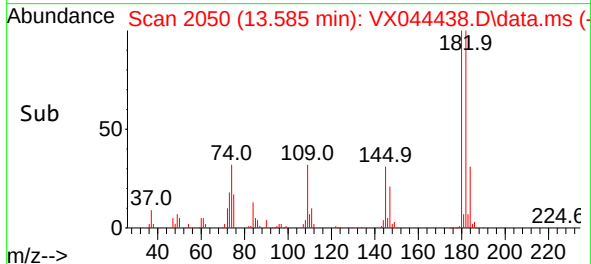
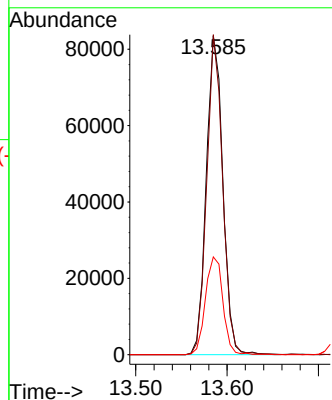
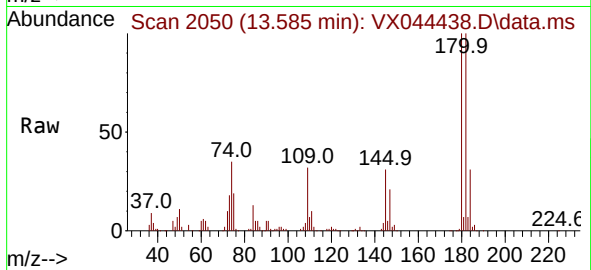




#93
1,2,4-Trichlorobenzene
Concen: 59.504 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

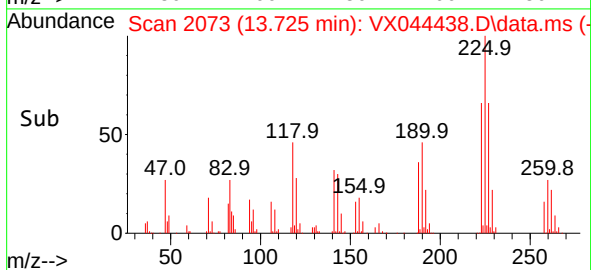
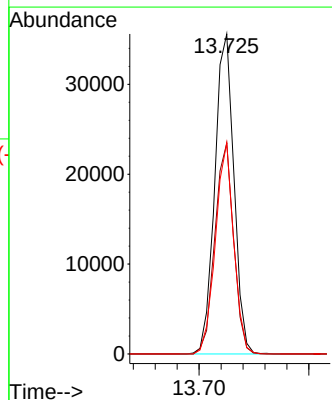
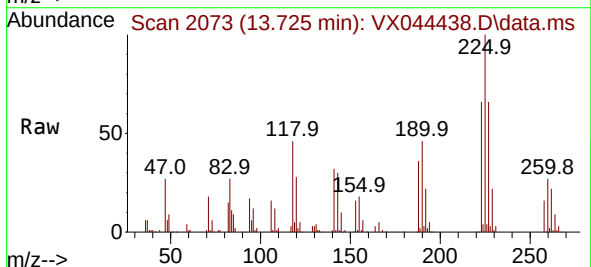
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

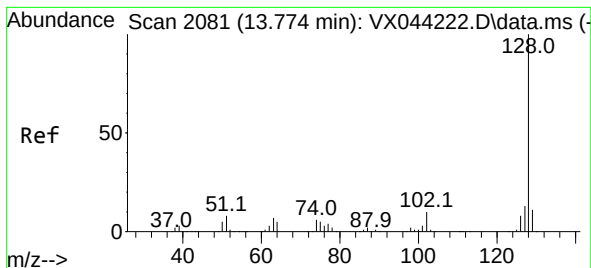
Tgt Ion:180 Resp: 104720
Ion Ratio Lower Upper
180 100
182 96.1 48.0 144.2
145 32.4 16.6 49.7



#94
Hexachlorobutadiene
Concen: 60.942 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:225 Resp: 43140
Ion Ratio Lower Upper
225 100
223 64.7 30.8 92.4
227 63.1 32.1 96.3





#95

Naphthalene

Concen: 53.772 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

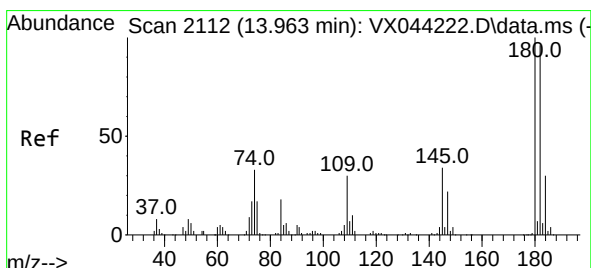
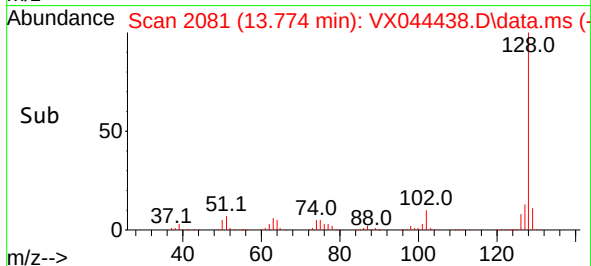
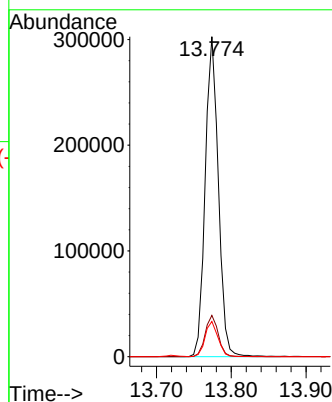
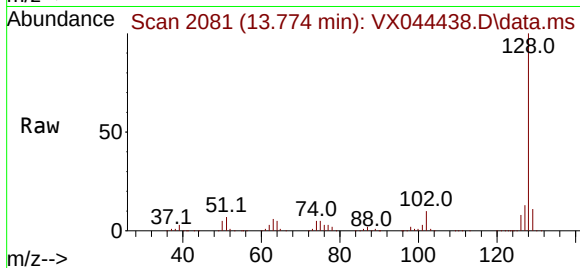
Tgt Ion:128 Resp: 369385

Ion Ratio Lower Upper

128 100

127 12.8 10.5 15.7

129 10.9 9.0 13.4



#96

1,2,3-Trichlorobenzene

Concen: 58.216 ug/l

RT: 13.957 min Scan# 2111

Delta R.T. -0.006 min

Lab File: VX044438.D

Acq: 20 Dec 2024 09:16

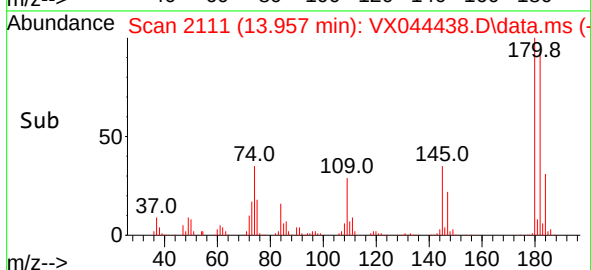
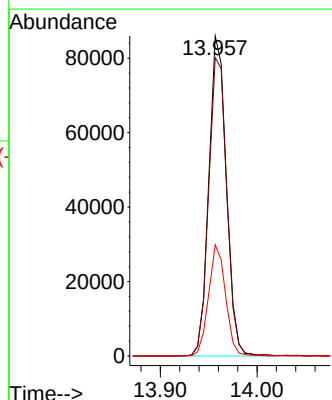
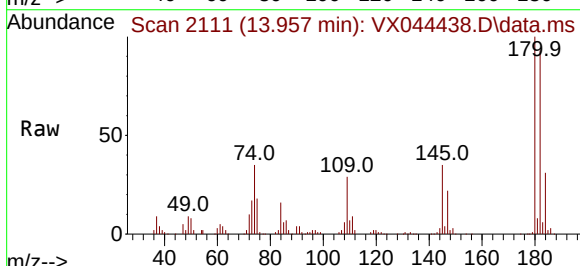
Tgt Ion:180 Resp: 108667

Ion Ratio Lower Upper

180 100

182 96.0 48.0 144.0

145 33.6 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
 Data File : VX044441.D
 Acq On : 20 Dec 2024 10:46
 Operator : JC/MD
 Sample : VX1220WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1220WBS01

Quant Time: Dec 20 22:21:15 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:28:14 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	146515	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	249173	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	212384	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	96885	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	109691	42.700	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	85.400%
35) Dibromofluoromethane	5.379	113	83769	48.541	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.080%
50) Toluene-d8	8.647	98	283358	48.669	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.340%
62) 4-Bromofluorobenzene	11.079	95	94485	46.443	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	92.880%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	41893	18.492	ug/l	95
3) Chloromethane	1.294	50	40546	18.715	ug/l	99
4) Vinyl Chloride	1.374	62	40370	17.887	ug/l	97
5) Bromomethane	1.599	94	30109	18.804	ug/l	96
6) Chloroethane	1.666	64	27776	19.764	ug/l	99
7) Trichlorofluoromethane	1.874	101	67604	15.300	ug/l	99
8) Diethyl Ether	2.136	74	26079	17.291	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	33030	18.474	ug/l	94
10) Methyl Iodide	2.447	142	45795	19.434	ug/l	96
11) Tert butyl alcohol	2.989	59	33237	91.803	ug/l	96
12) 1,1-Dichloroethene	2.312	96	30995	18.873	ug/l	96
13) Acrolein	2.239	56	44044	84.041	ug/l	96
14) Allyl chloride	2.660	41	49108	17.953	ug/l	96
15) Acrylonitrile	3.068	53	90872	90.610	ug/l	99
16) Acetone	2.386	43	79327	75.745	ug/l	91
17) Carbon Disulfide	2.501	76	51100	16.369	ug/l	100
18) Methyl Acetate	2.703	43	47831	17.713	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	112975	17.629	ug/l	97
20) Methylene Chloride	2.782	84	37654	19.142	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	32618	18.688	ug/l	96
22) Diisopropyl ether	3.763	45	110674	17.968	ug/l	97
23) Vinyl Acetate	3.721	43	456052	91.069	ug/l	99
24) 1,1-Dichloroethane	3.605	63	64973	18.923	ug/l	98
25) 2-Butanone	4.562	43	124008	83.289	ug/l	98
26) 2,2-Dichloropropane	4.471	77	51269	18.380	ug/l	98
27) cis-1,2-Dichloroethene	4.489	96	39842	17.974	ug/l	97
28) Bromochloromethane	4.891	49	26535	15.760	ug/l	97
29) Tetrahydrofuran	5.007	42	81181	84.947	ug/l	99
30) Chloroform	5.092	83	68227	17.686	ug/l	99
31) Cyclohexane	5.470	56	48875	17.628	ug/l	93
32) 1,1,1-Trichloroethane	5.373	97	55907	17.459	ug/l	98
36) 1,1-Dichloropropene	5.690	75	41416	18.566	ug/l	97
37) Ethyl Acetate	4.721	43	48014	17.412	ug/l	96
38) Carbon Tetrachloride	5.672	117	45386	18.898	ug/l	93
39) Methylcyclohexane	7.373	83	51554	19.332	ug/l	98
40) Benzene	6.031	78	137885	20.358	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
 Data File : VX044441.D
 Acq On : 20 Dec 2024 10:46
 Operator : JC/MD
 Sample : VX1220WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1220WBS01

Quant Time: Dec 20 22:21:15 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:28:14 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	26859	18.343	ug/l	98
42) 1,2-Dichloroethane	6.086	62	53588	19.207	ug/l	97
43) Isopropyl Acetate	6.342	43	79207	18.378	ug/l	99
44) Trichloroethene	7.123	130	33615	19.902	ug/l	88
45) 1,2-Dichloropropane	7.427	63	33011	19.077	ug/l	97
46) Dibromomethane	7.580	93	26495	19.737	ug/l	95
47) Bromodichloromethane	7.818	83	44357	19.132	ug/l	98
48) Methyl methacrylate	7.690	41	36154	17.281	ug/l	94
49) 1,4-Dioxane	7.671	88	10158	292.846	ug/l #	79
51) 4-Methyl-2-Pentanone	8.574	43	255984	92.373	ug/l	99
52) Toluene	8.714	92	82957	19.504	ug/l	97
53) t-1,3-Dichloropropene	8.976	75	41417	17.860	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	48359	19.157	ug/l	99
55) 1,1,2-Trichloroethane	9.147	97	35148	20.801	ug/l	96
56) Ethyl methacrylate	9.116	69	48642	18.235	ug/l	100
57) 1,3-Dichloropropane	9.305	76	56644	19.260	ug/l	97
58) 2-Chloroethyl Vinyl ether	8.238	63	109022	81.033	ug/l	99
59) 2-Hexanone	9.433	43	181241	90.356	ug/l	99
60) Dibromochloromethane	9.518	129	31411	18.848	ug/l	99
61) 1,2-Dibromoethane	9.610	107	34801	20.234	ug/l	100
64) Tetrachloroethene	9.269	164	29267	20.762	ug/l	96
65) Chlorobenzene	10.079	112	90589	19.906	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	30193	20.643	ug/l	99
67) Ethyl Benzene	10.189	91	151105	19.217	ug/l	100
68) m/p-Xylenes	10.299	106	114910	39.825	ug/l	97
69) o-Xylene	10.640	106	57794	19.797	ug/l	95
70) Styrene	10.652	104	92784	19.825	ug/l	96
71) Bromoform	10.799	173	17659	19.275	ug/l #	97
73) Isopropylbenzene	10.963	105	147393	19.872	ug/l	99
74) N-amyl acetate	10.841	43	61829	18.038	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.213	83	50416	19.570	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	49769	23.007	ug/l	88
77) Bromobenzene	11.195	156	36233	20.145	ug/l	95
78) n-propylbenzene	11.299	91	162028	19.765	ug/l	98
79) 2-Chlorotoluene	11.360	91	102209	19.279	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	121225	19.709	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	11072	18.609	ug/l	91
82) 4-Chlorotoluene	11.451	91	112263	19.122	ug/l	97
83) tert-Butylbenzene	11.713	119	120518	19.827	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	121322	20.085	ug/l	98
85) sec-Butylbenzene	11.890	105	143732	19.477	ug/l	100
86) p-Isopropyltoluene	12.006	119	120356	19.596	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	63016	20.058	ug/l	98
88) 1,4-Dichlorobenzene	12.042	146	64444	19.954	ug/l	98
89) n-Butylbenzene	12.329	91	94402	18.279	ug/l	97
90) Hexachloroethane	12.536	117	16712	18.640	ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	64584	19.798	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8263	16.523	ug/l	90
93) 1,2,4-Trichlorobenzene	13.585	180	34820	19.470	ug/l	97
94) Hexachlorobutadiene	13.725	225	15232	21.174	ug/l	99
95) Naphthalene	13.774	128	124472	17.830	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	36757	19.378	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044441.D
Acq On : 20 Dec 2024 10:46
Operator : JC/MD
Sample : VX1220WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

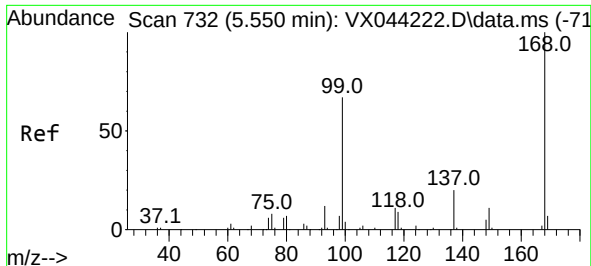
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MSVOA_X
ClientSampleId :
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Quant Time: Dec 20 22:21:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

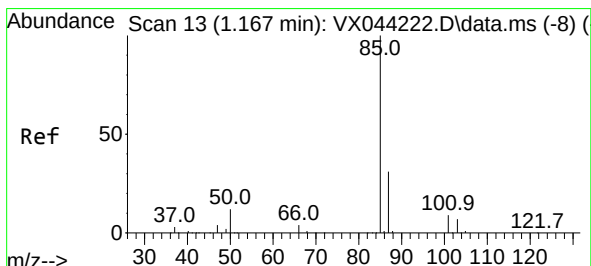
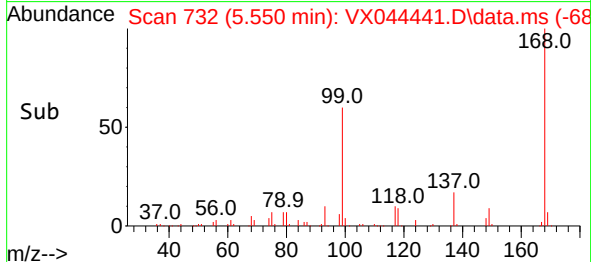
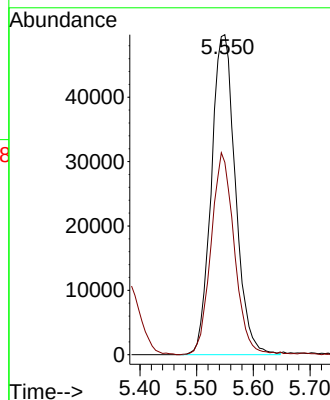
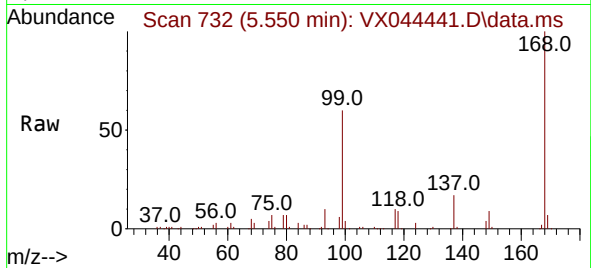
- 1
- 2
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- 4
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- 8
- 9
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- 11
- 12
- 13
- 14
- 15
- 16
- 17



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

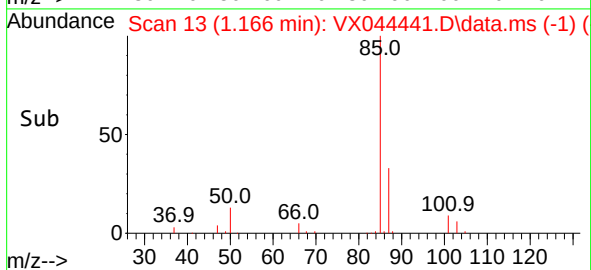
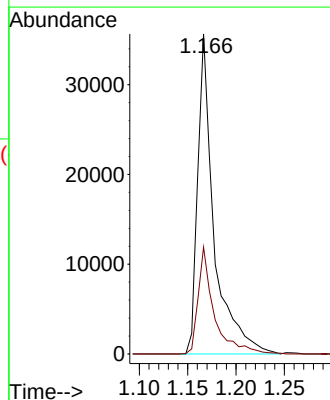
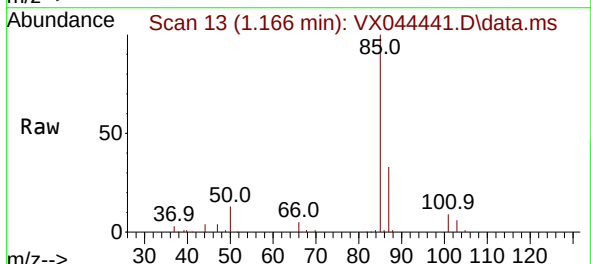
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

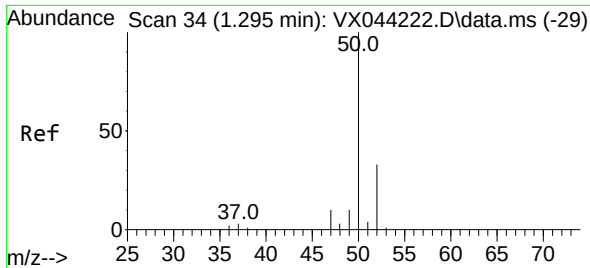
Tgt Ion:168 Resp: 146515
Ion Ratio Lower Upper
168 100
99 60.1 53.4 80.0



#2
Dichlorodifluoromethane
Concen: 18.492 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 85 Resp: 41893
Ion Ratio Lower Upper
85 100
87 33.4 15.4 46.4

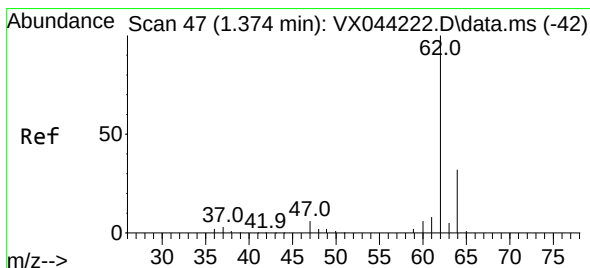
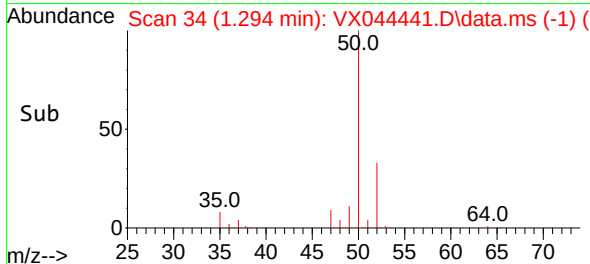
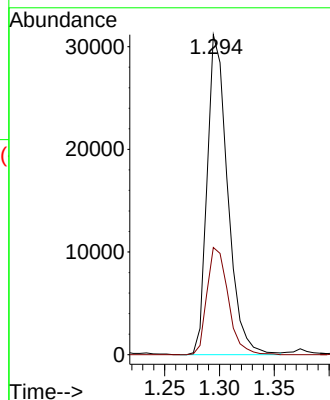
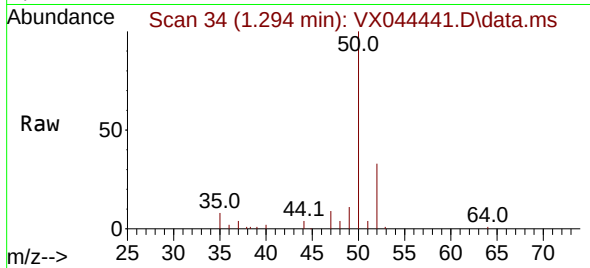




#3
Chloromethane
Concen: 18.715 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

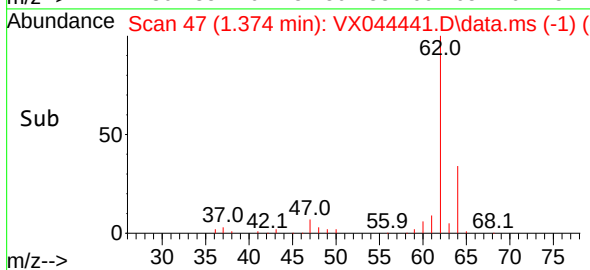
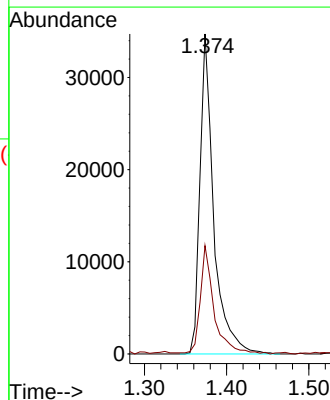
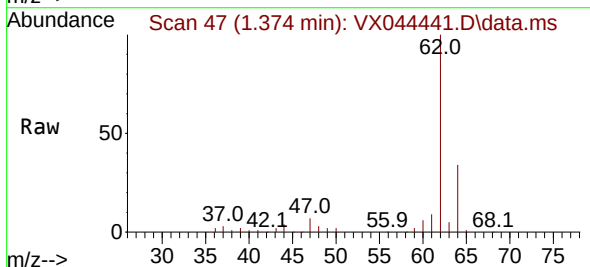
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

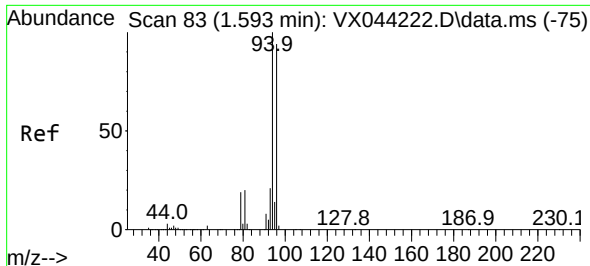
Tgt Ion: 50 Resp: 40546
Ion Ratio Lower Upper
50 100
52 33.5 26.5 39.7



#4
Vinyl Chloride
Concen: 17.887 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 62 Resp: 40370
Ion Ratio Lower Upper
62 100
64 33.5 25.7 38.5

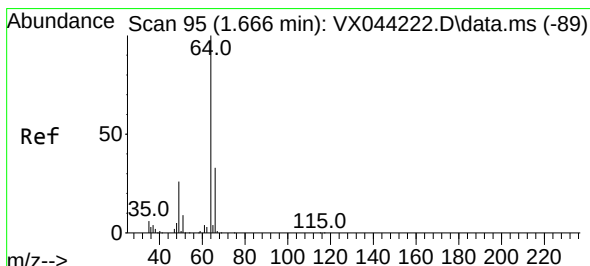
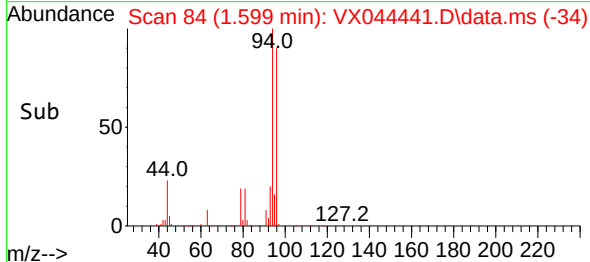
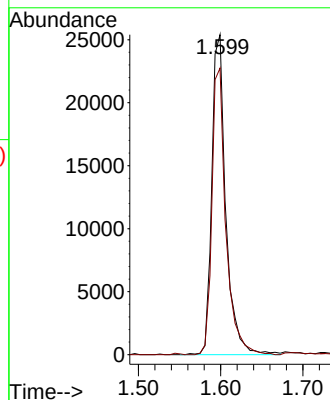
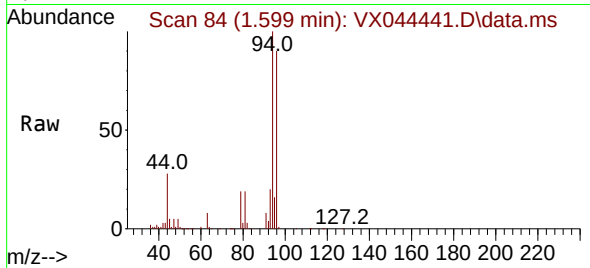




#5
Bromomethane
Concen: 18.804 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

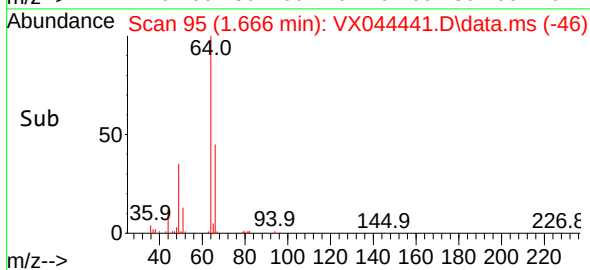
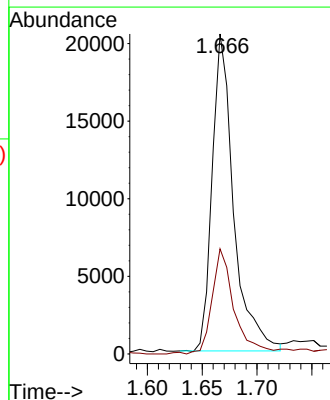
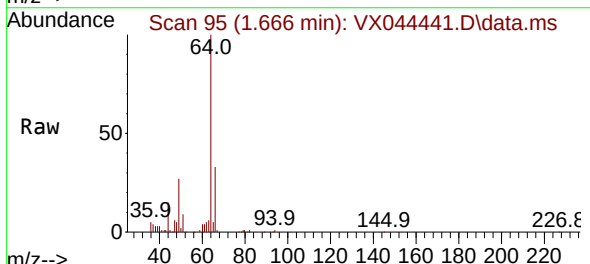
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

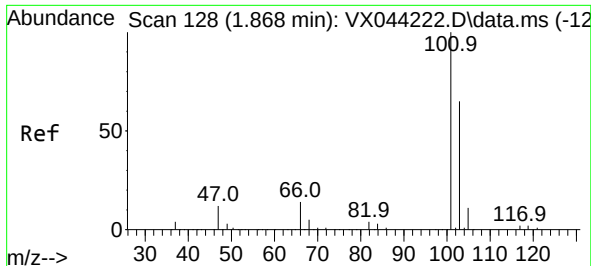
Tgt Ion: 94 Resp: 30109
Ion Ratio Lower Upper
94 100
96 89.5 74.9 112.3



#6
Chloroethane
Concen: 19.764 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 64 Resp: 27776
Ion Ratio Lower Upper
64 100
66 32.7 26.6 39.8

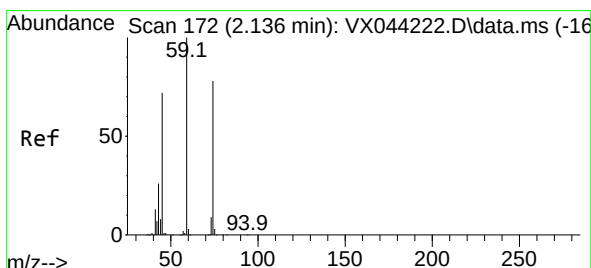
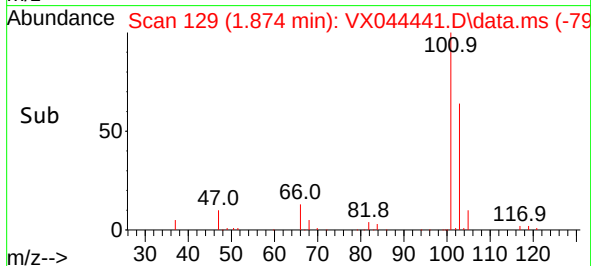
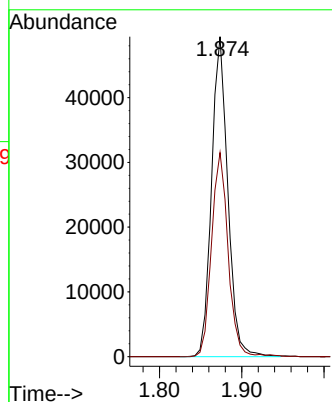
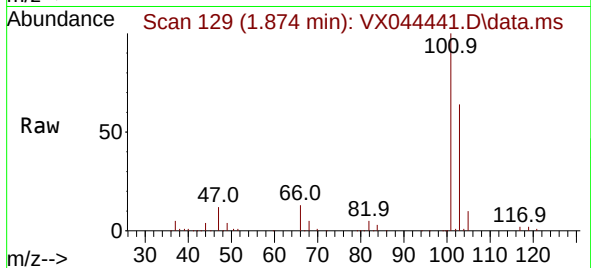




#7
 Trichlorofluoromethane
 Concen: 15.300 ug/l
 RT: 1.874 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VX044441.D
 Acq: 20 Dec 2024 10:46

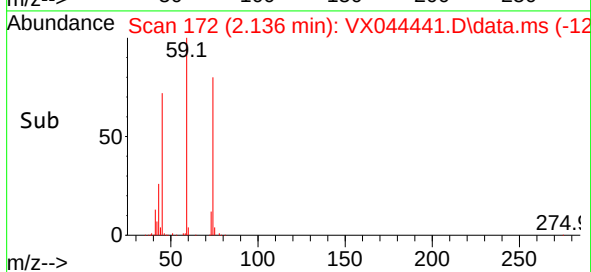
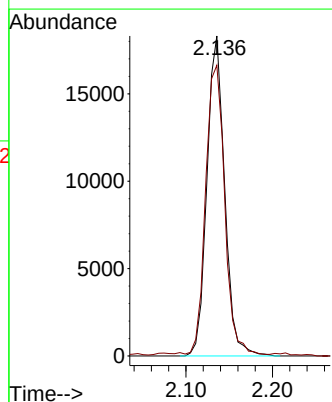
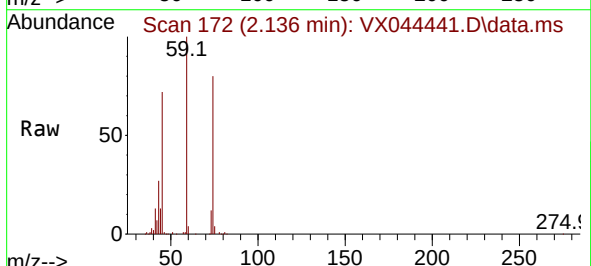
Instrument :
 MSVOA_X
 ClientSampleId :
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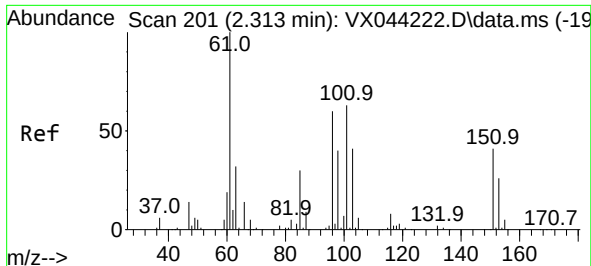
Tgt Ion:101 Resp: 67604
 Ion Ratio Lower Upper
 101 100
 103 63.8 51.8 77.8



#8
 Diethyl Ether
 Concen: 17.291 ug/l
 RT: 2.136 min Scan# 172
 Delta R.T. -0.000 min
 Lab File: VX044441.D
 Acq: 20 Dec 2024 10:46

Tgt Ion: 74 Resp: 26079
 Ion Ratio Lower Upper
 74 100
 45 96.3 48.4 145.0

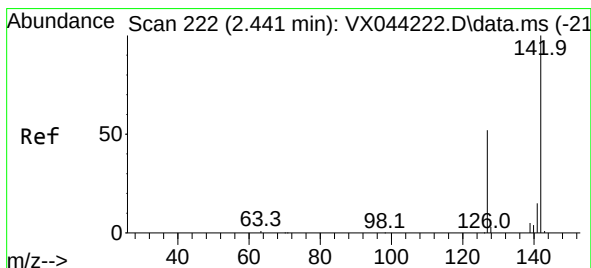
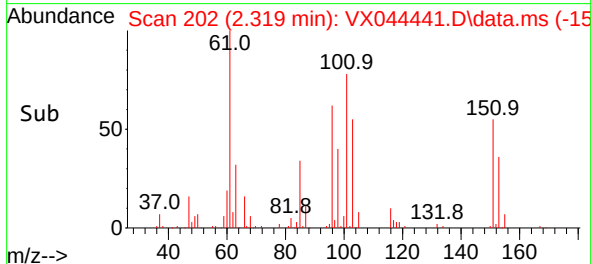
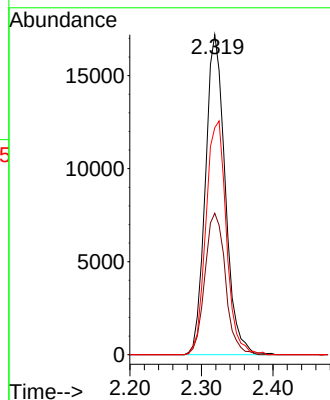
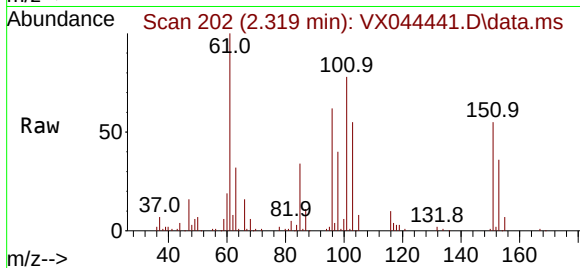




#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.474 ug/l
RT: 2.319 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

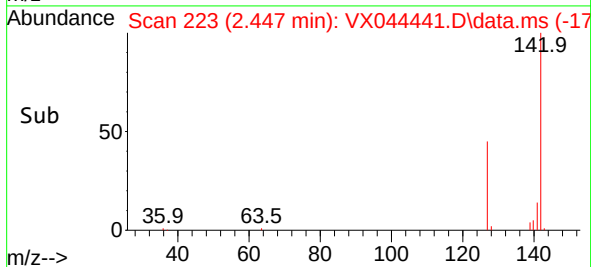
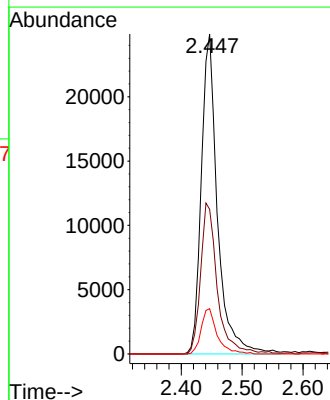
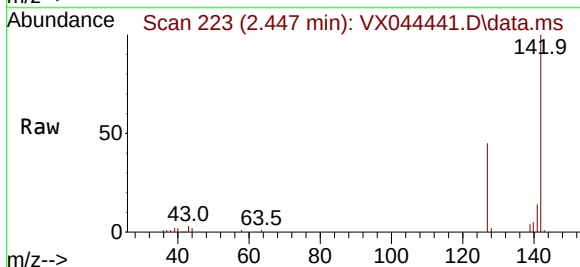
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

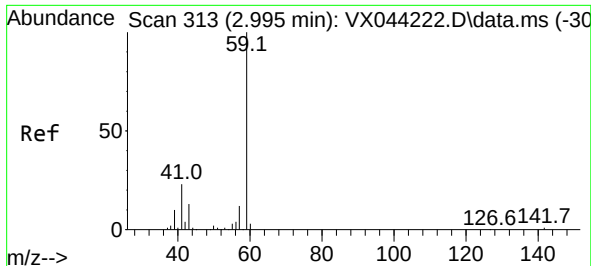
Tgt Ion:101 Resp: 33030
Ion Ratio Lower Upper
101 100
85 45.8 38.5 57.7
151 75.4 55.8 83.6



#10
Methyl Iodide
Concen: 19.434 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:142 Resp: 45795
Ion Ratio Lower Upper
142 100
127 48.9 41.8 62.8
141 14.0 11.5 17.3

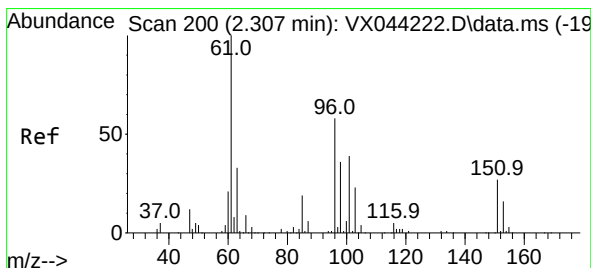
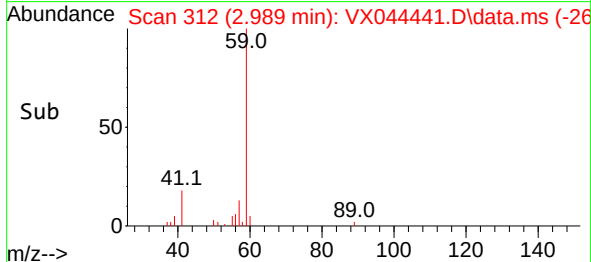
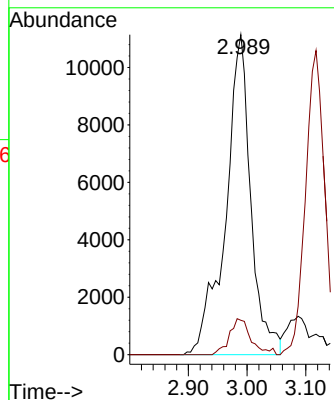
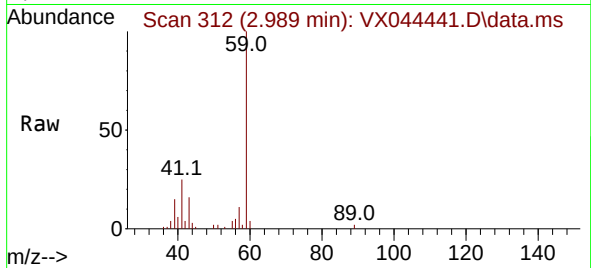




#11
Tert butyl alcohol
Concen: 91.803 ug/l
RT: 2.989 min Scan# 311
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

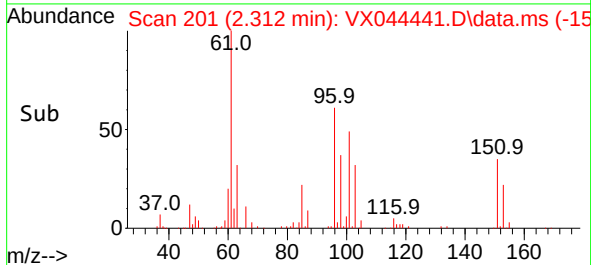
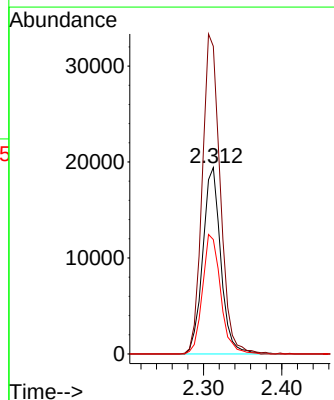
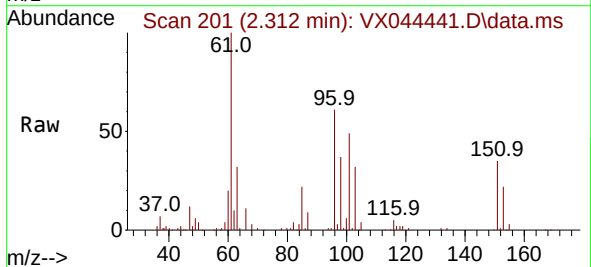
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

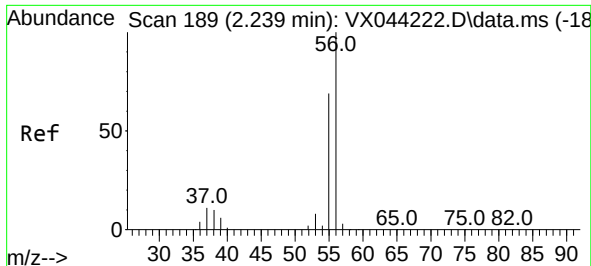
Tgt Ion: 59 Resp: 33237
Ion Ratio Lower Upper
59 100
57 9.6 8.8 13.2



#12
1,1-Dichloroethene
Concen: 18.873 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 96 Resp: 30995
Ion Ratio Lower Upper
96 100
61 165.0 138.0 207.0
98 61.4 50.0 75.0

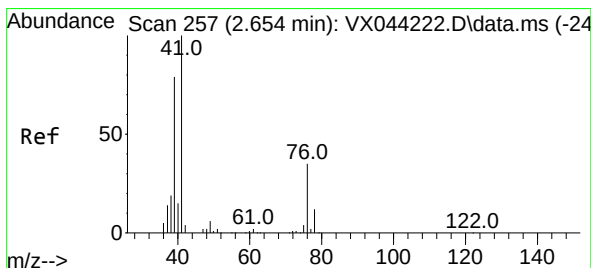
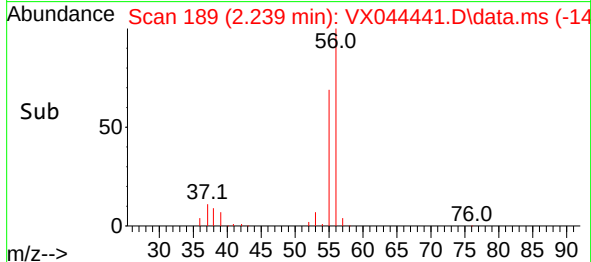
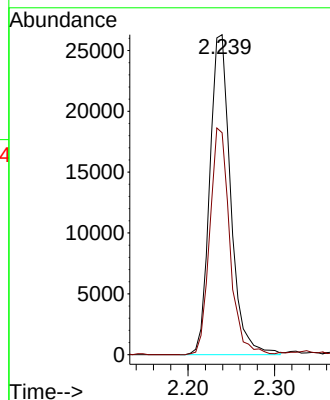
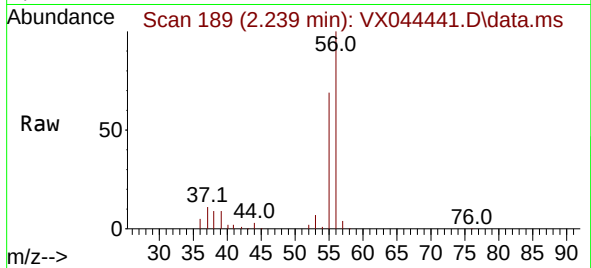




#13
Acrolein
Concen: 84.041 ug/l
RT: 2.239 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

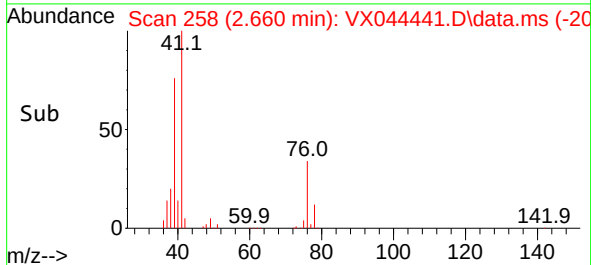
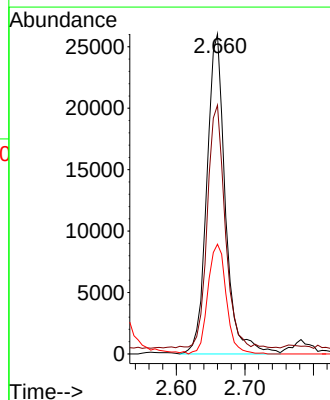
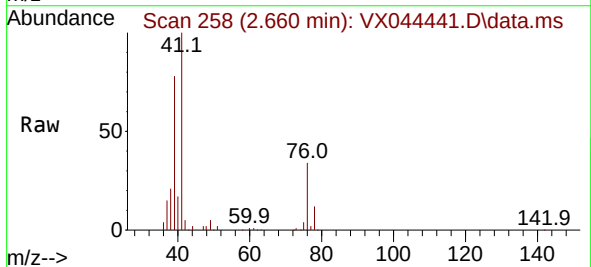
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

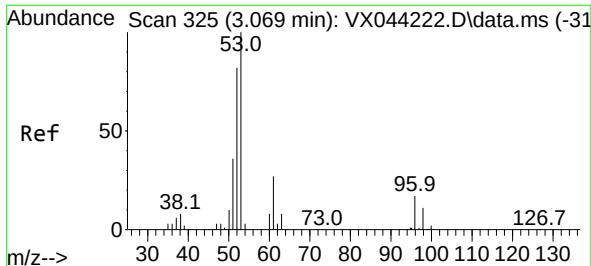
Tgt Ion: 56 Resp: 44044
Ion Ratio Lower Upper
56 100
55 67.7 56.6 84.8



#14
Allyl chloride
Concen: 17.953 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 41 Resp: 49108
Ion Ratio Lower Upper
41 100
39 73.3 61.9 92.9
76 33.9 27.4 41.2

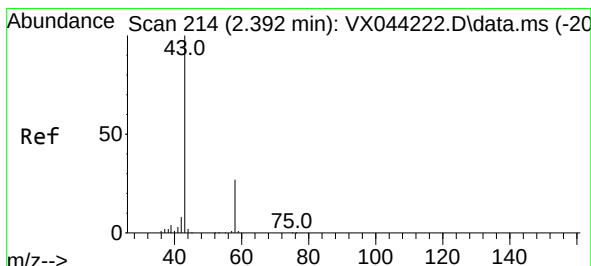
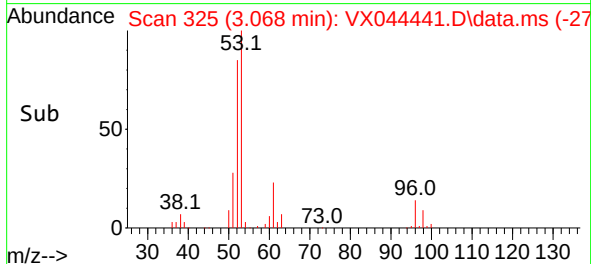
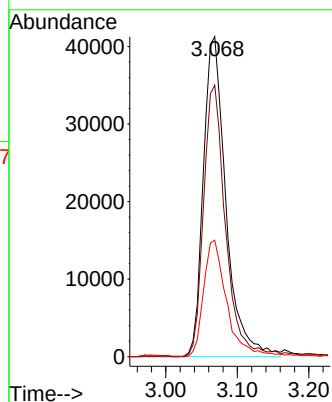
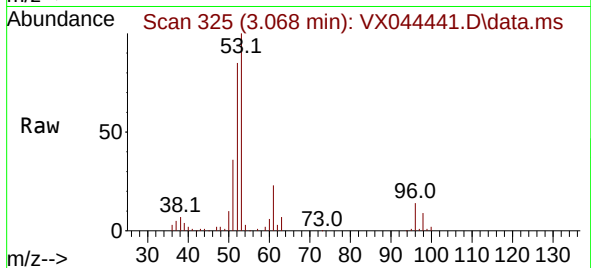




#15
Acrylonitrile
Concen: 90.610 ug/l
RT: 3.068 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

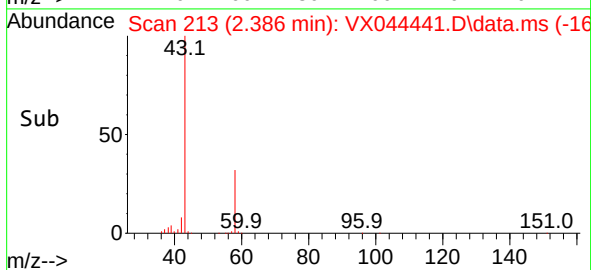
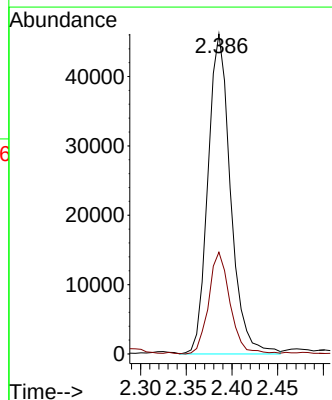
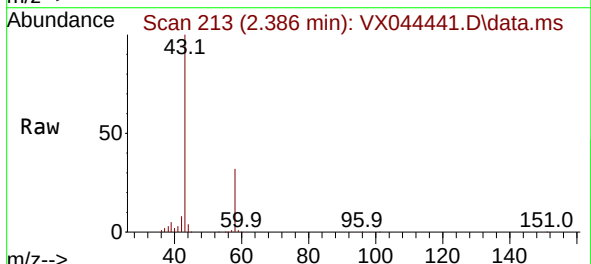
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

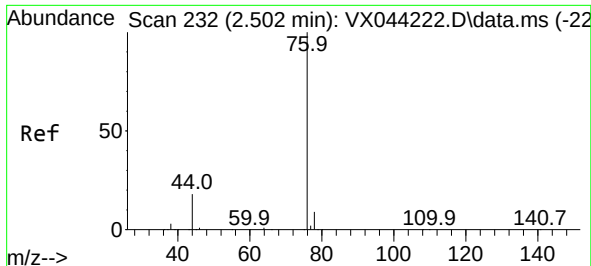
Tgt Ion: 53 Resp: 90872
Ion Ratio Lower Upper
53 100
52 82.8 67.4 101.0
51 37.6 30.3 45.5



#16
Acetone
Concen: 75.745 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 79327
Ion Ratio Lower Upper
43 100
58 31.7 21.6 32.4

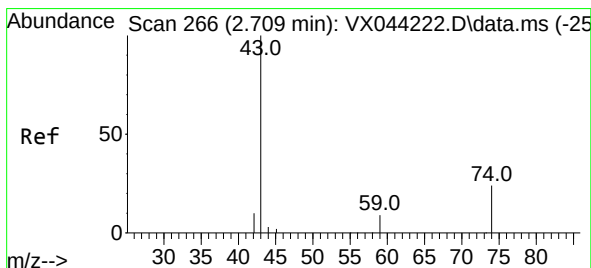
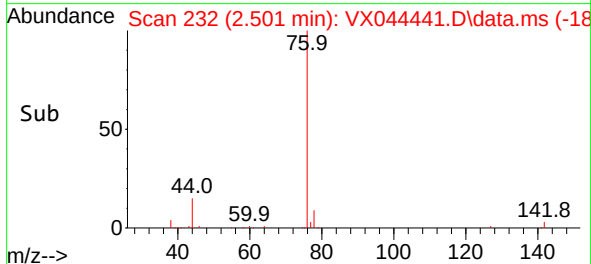
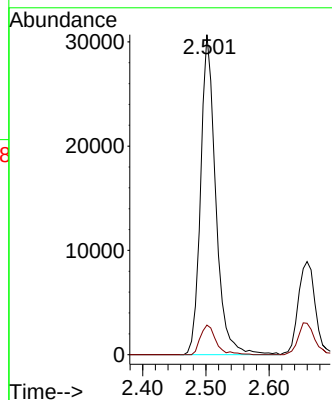
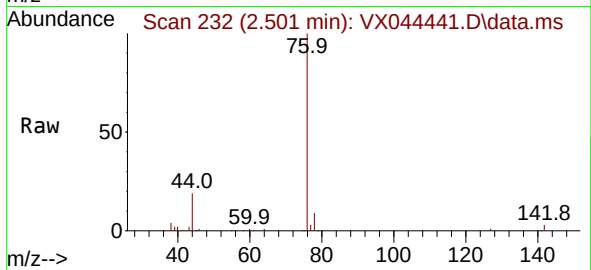




#17
Carbon Disulfide
Concen: 16.369 ug/l
RT: 2.501 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

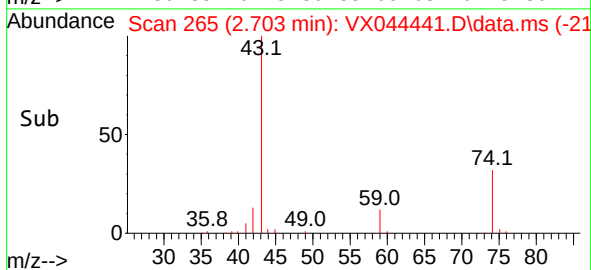
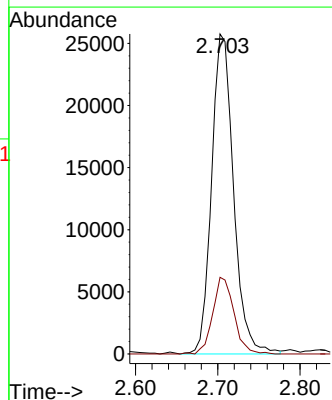
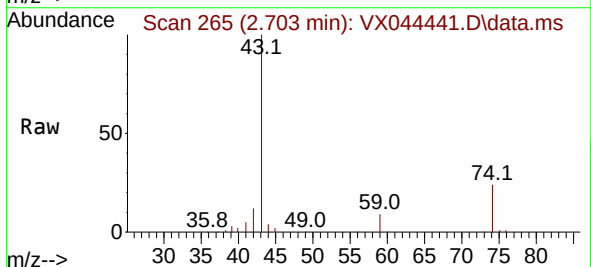
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

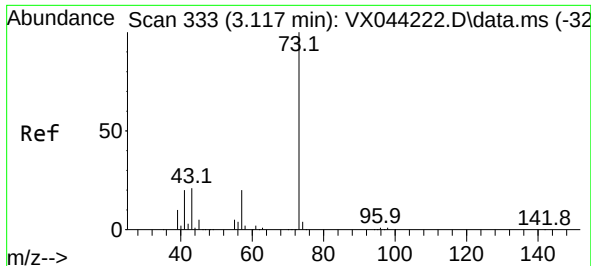
Tgt Ion: 76 Resp: 51100
Ion Ratio Lower Upper
76 100
78 9.2 7.4 11.0



#18
Methyl Acetate
Concen: 17.713 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 47831
Ion Ratio Lower Upper
43 100
74 23.1 17.7 26.5

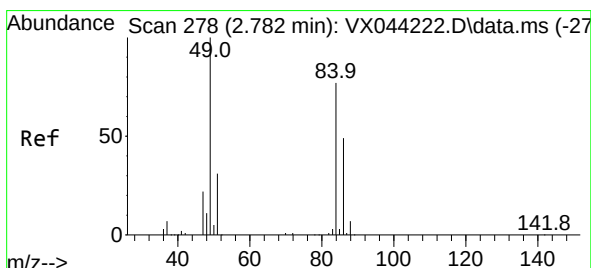
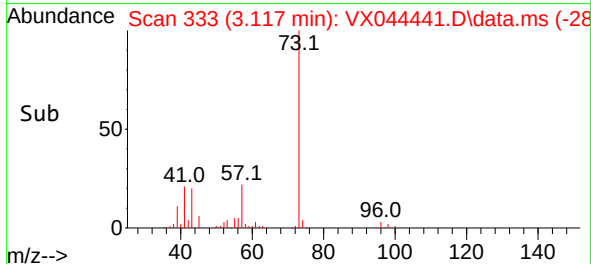
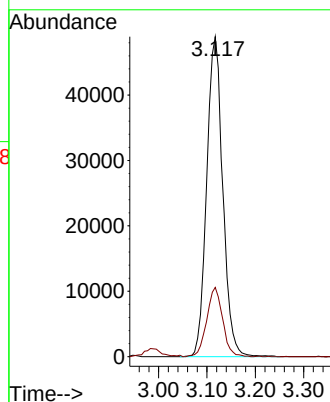
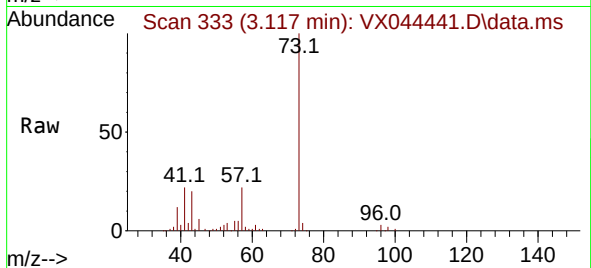




#19
Methyl tert-butyl Ether
Concen: 17.629 ug/l
RT: 3.117 min Scan# 311
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

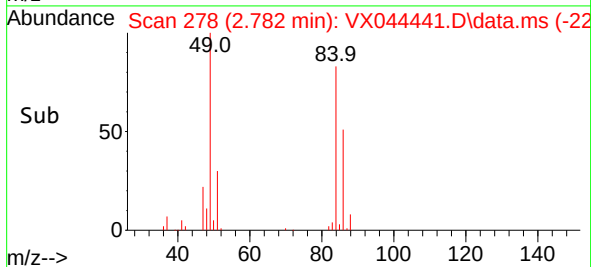
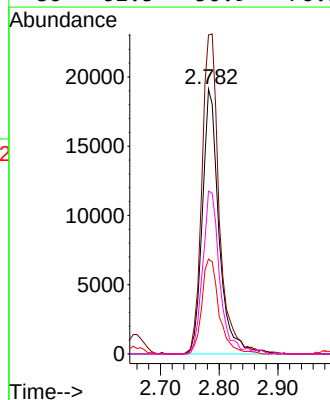
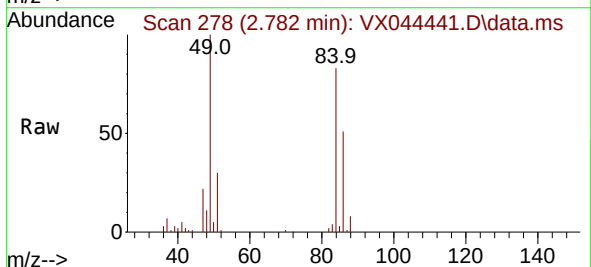
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

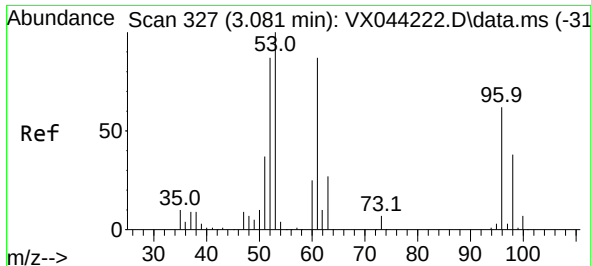
Tgt Ion: 73 Resp: 112975
Ion Ratio Lower Upper
73 100
57 21.6 16.2 24.4



#20
Methylene Chloride
Concen: 19.142 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 84 Resp: 37654
Ion Ratio Lower Upper
84 100
49 120.5 104.2 156.4
51 35.8 32.2 48.4
86 61.5 50.9 76.3

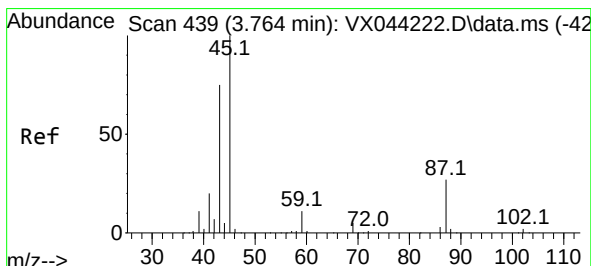
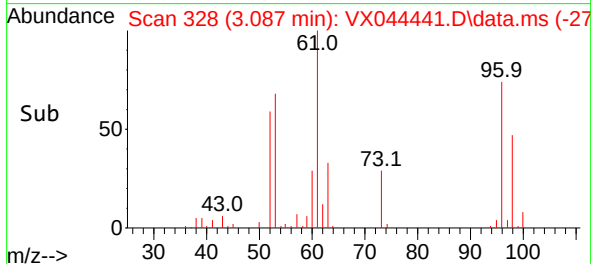
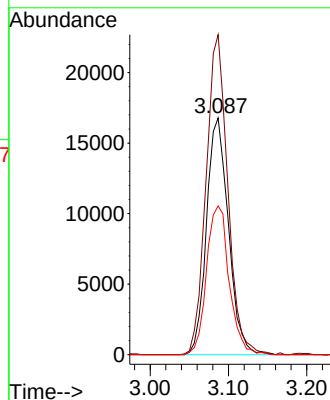
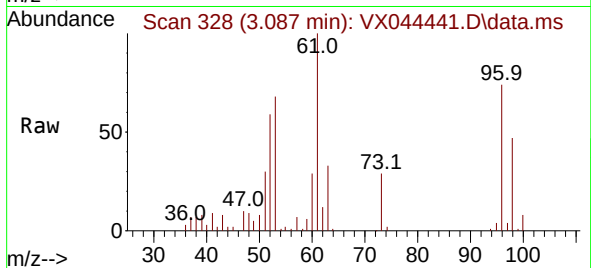




#21
trans-1,2-Dichloroethene
Concen: 18.688 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

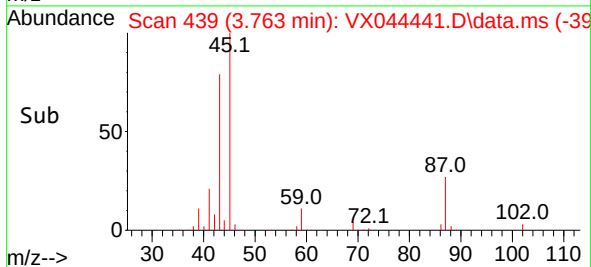
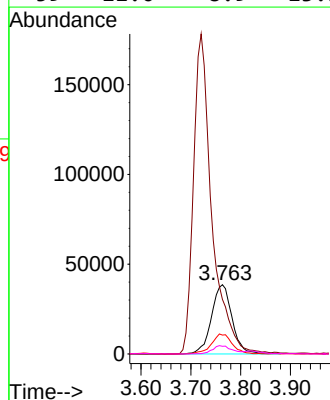
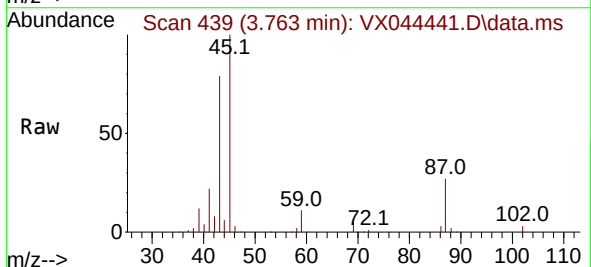
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

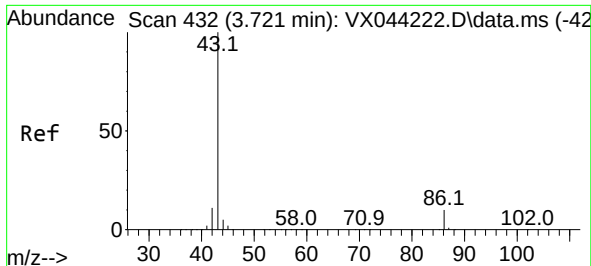
Tgt Ion: 96 Resp: 32618
Ion Ratio Lower Upper
96 100
61 135.2 112.0 168.0
98 62.9 48.8 73.2



#22
Diisopropyl ether
Concen: 17.968 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 45 Resp: 110674
Ion Ratio Lower Upper
45 100
43 77.9 60.2 90.2
87 27.4 21.2 31.8
59 11.0 8.9 13.3

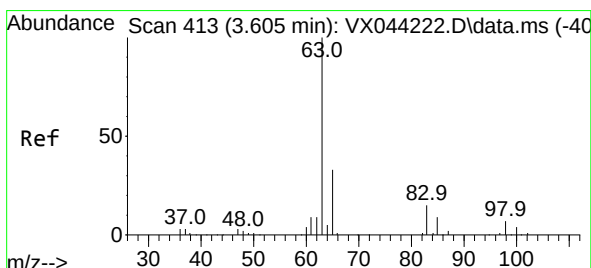
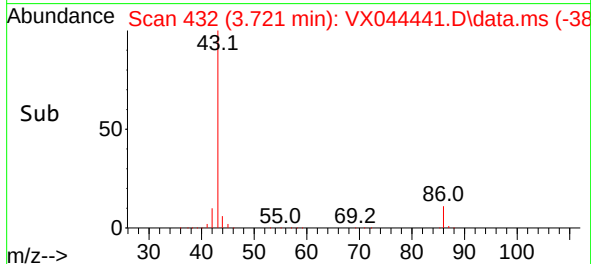
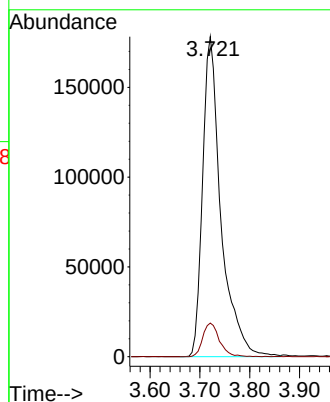
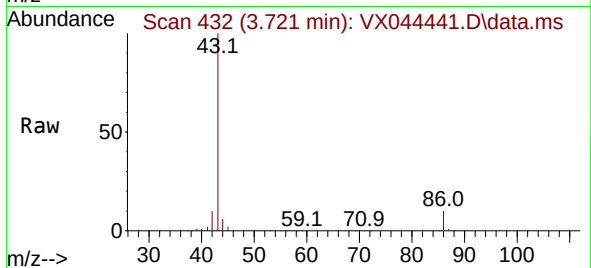




#23
 Vinyl Acetate
 Concen: 91.069 ug/l
 RT: 3.721 min Scan# 413
 Delta R.T. -0.000 min
 Lab File: VX044441.D
 Acq: 20 Dec 2024 10:46

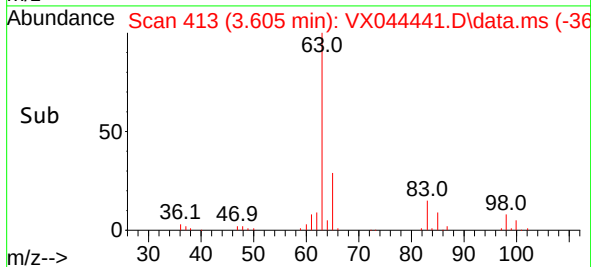
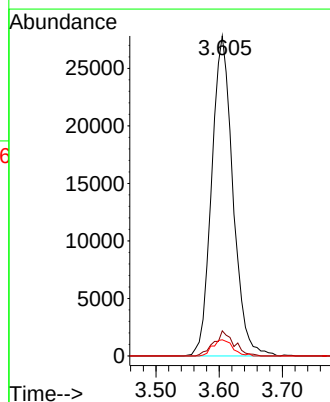
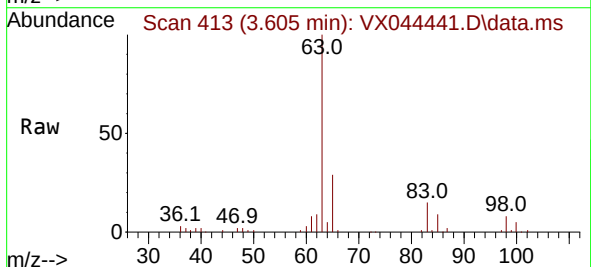
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1220WBS01

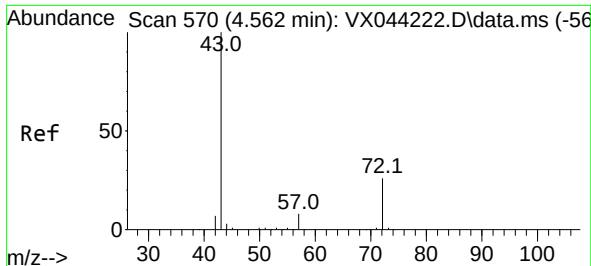
Tgt Ion: 43 Resp: 456052
 Ion Ratio Lower Upper
 43 100
 86 10.5 8.2 12.2



#24
 1,1-Dichloroethane
 Concen: 18.923 ug/l
 RT: 3.605 min Scan# 413
 Delta R.T. -0.000 min
 Lab File: VX044441.D
 Acq: 20 Dec 2024 10:46

Tgt Ion: 63 Resp: 64973
 Ion Ratio Lower Upper
 63 100
 98 7.9 3.6 10.8
 100 5.0 2.1 6.3

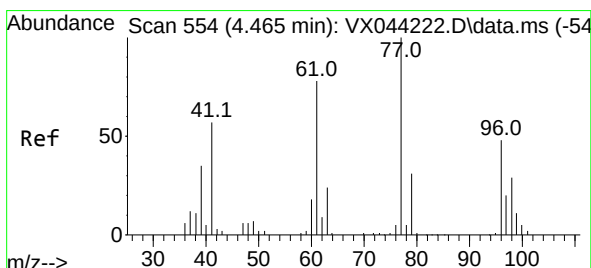
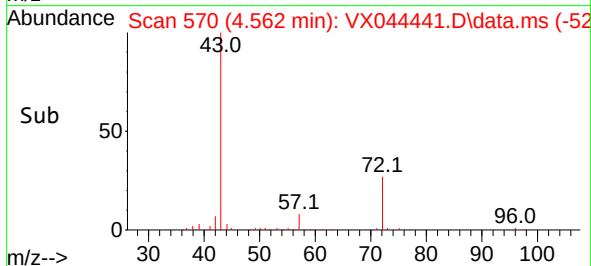
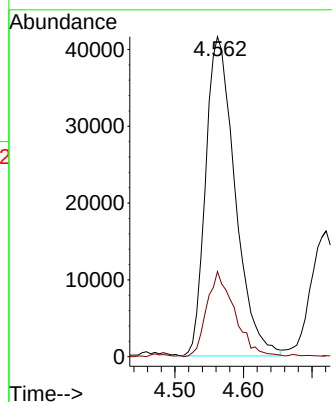
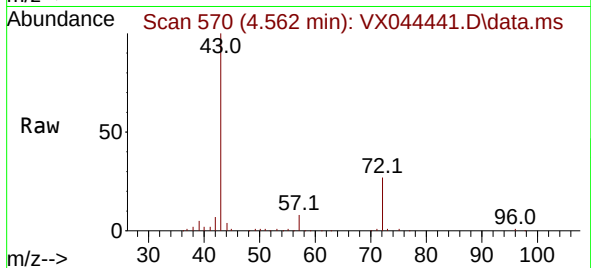




#25
2-Butanone
Concen: 83.289 ug/l
RT: 4.562 min Scan# 51
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

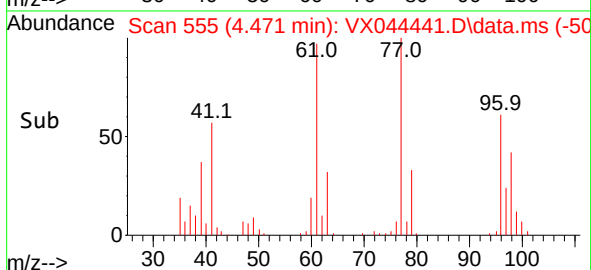
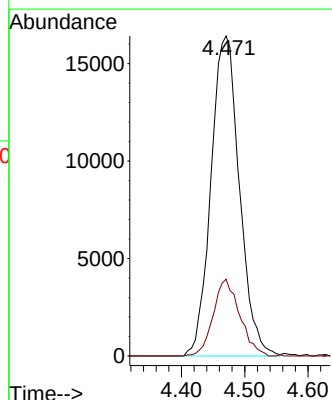
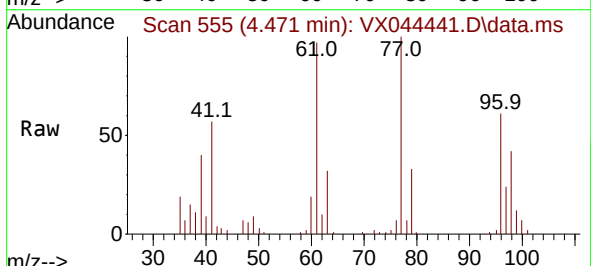
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

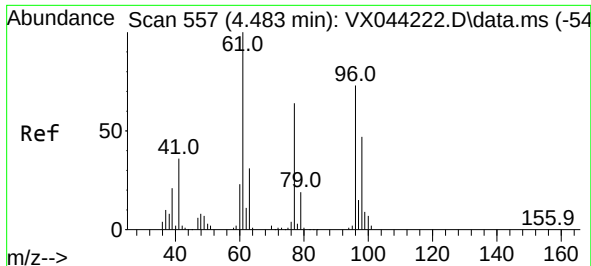
Tgt Ion: 43 Resp: 124008
Ion Ratio Lower Upper
43 100
72 26.3 20.2 30.4



#26
2,2-Dichloropropane
Concen: 18.380 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 77 Resp: 51269
Ion Ratio Lower Upper
77 100
97 22.3 10.7 32.1

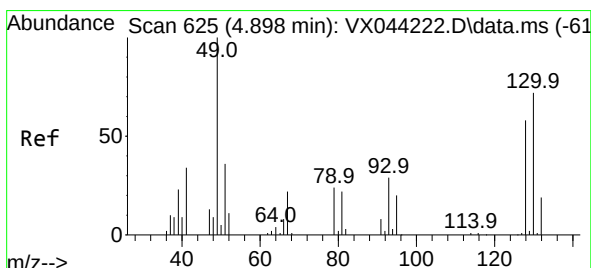
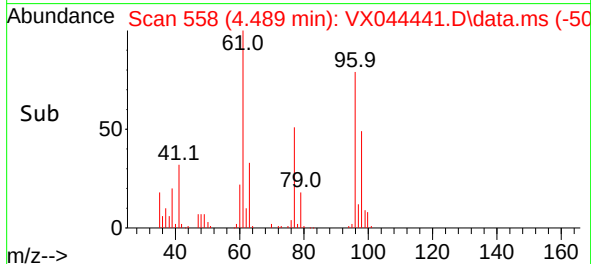
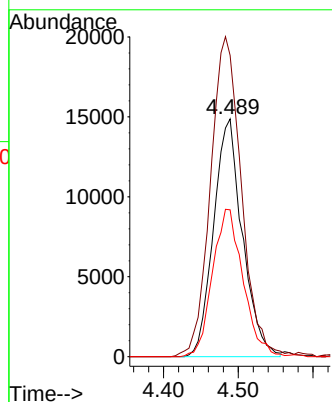
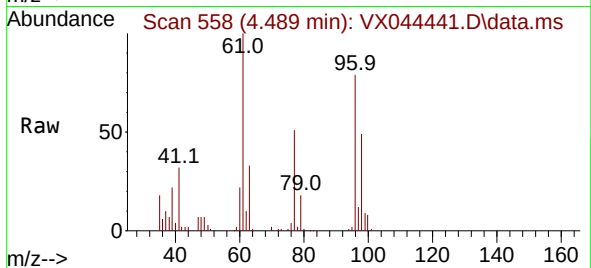




#27
cis-1,2-Dichloroethene
Concen: 17.974 ug/l
RT: 4.489 min Scan# 511
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

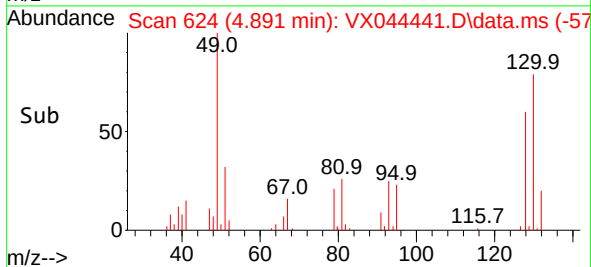
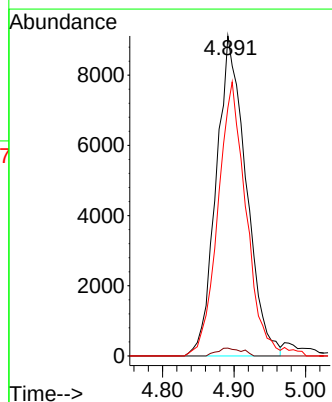
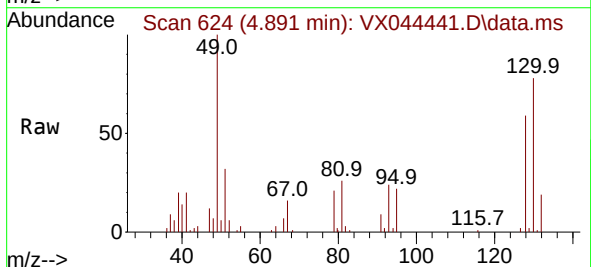
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

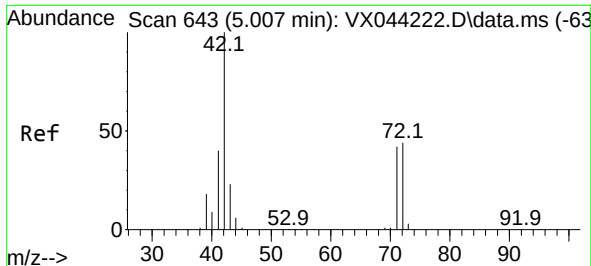
Tgt Ion: 96 Resp: 39842
Ion Ratio Lower Upper
96 100
61 144.2 0.0 299.0
98 65.7 0.0 129.0



#28
Bromochloromethane
Concen: 15.760 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 49 Resp: 26535
Ion Ratio Lower Upper
49 100
129 2.0 0.0 4.2
130 80.3 62.1 93.1





#29

Tetrahydrofuran

Concen: 84.947 ug/l

RT: 5.007 min Scan# 643

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

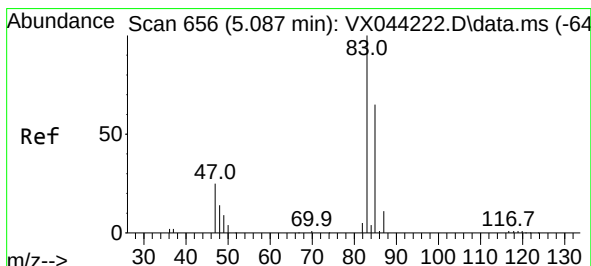
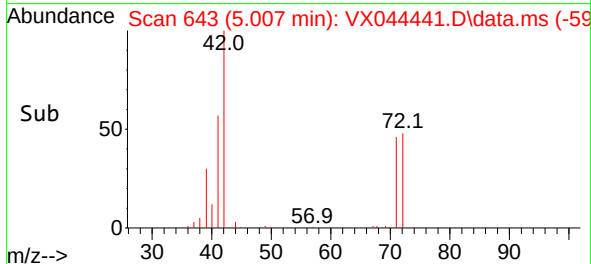
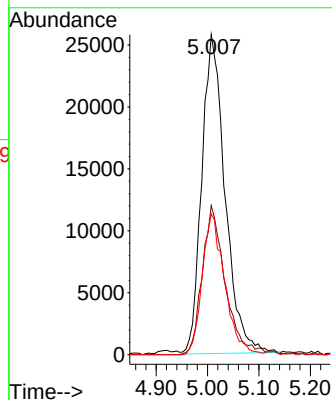
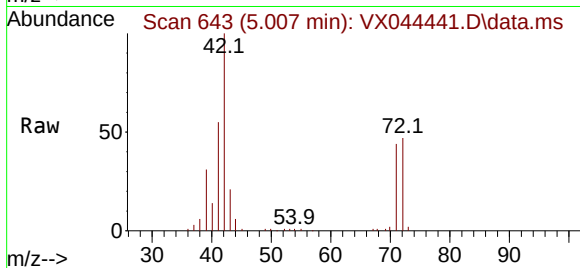
Tgt Ion: 42 Resp: 81181

Ion Ratio Lower Upper

42 100

72 45.9 37.0 55.6

71 42.5 33.6 50.4



#30

Chloroform

Concen: 17.686 ug/l

RT: 5.092 min Scan# 657

Delta R.T. 0.006 min

Lab File: VX044441.D

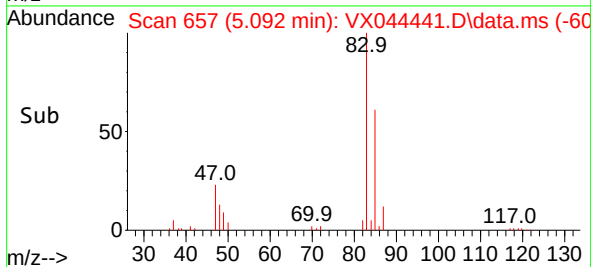
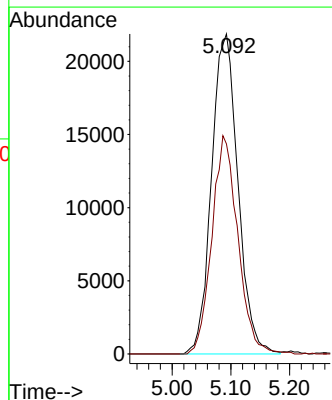
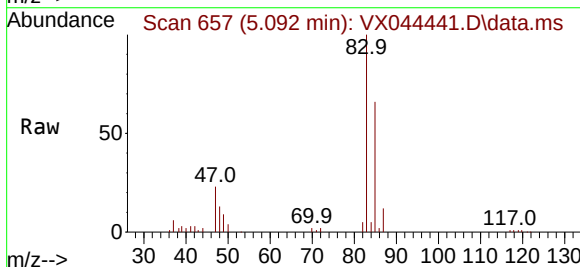
Acq: 20 Dec 2024 10:46

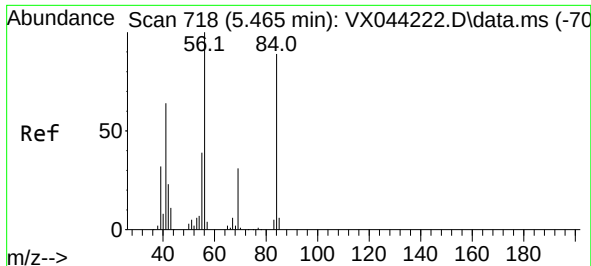
Tgt Ion: 83 Resp: 68227

Ion Ratio Lower Upper

83 100

85 65.6 51.6 77.4

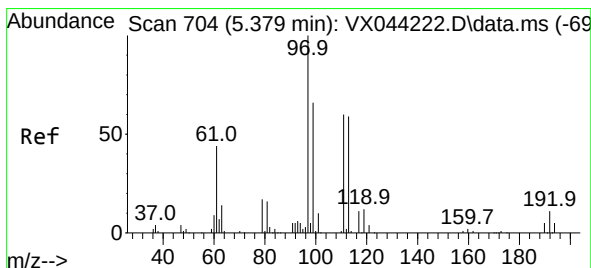
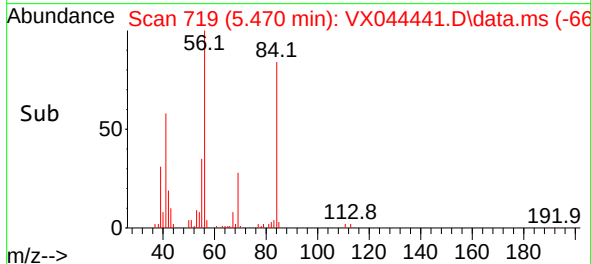
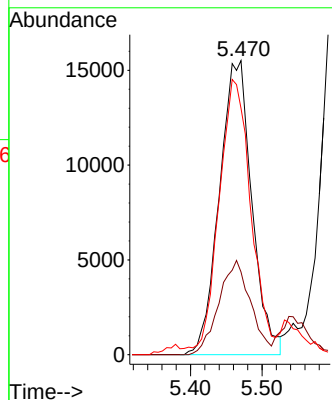
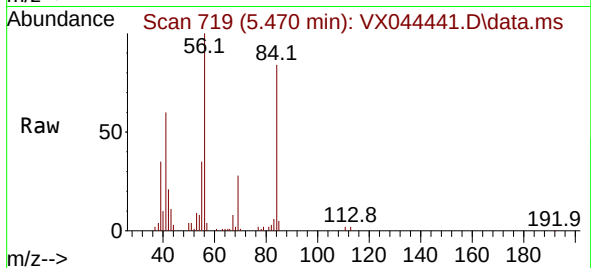




#31
Cyclohexane
Concen: 17.628 ug/l
RT: 5.470 min Scan# 719
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

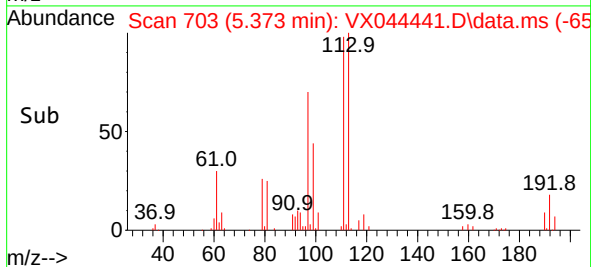
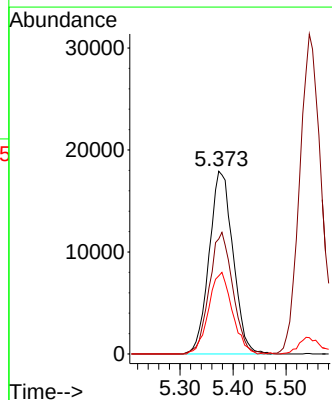
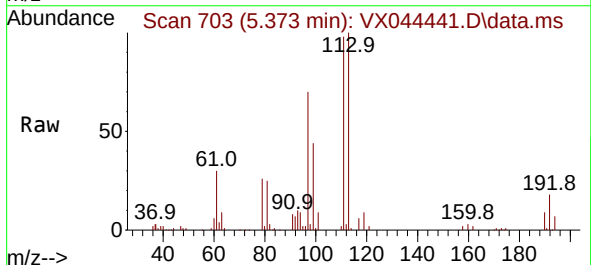
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

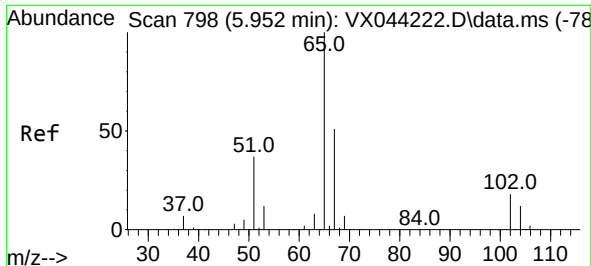
Tgt Ion: 56 Resp: 48875
Ion Ratio Lower Upper
56 100
69 28.1 24.7 37.1
84 81.7 71.0 106.6



#32
1,1,1-Trichloroethane
Concen: 17.459 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 97 Resp: 55907
Ion Ratio Lower Upper
97 100
99 65.6 50.8 76.2
61 44.3 35.2 52.8





#33

1,2-Dichloroethane-d4

Concen: 42.700 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

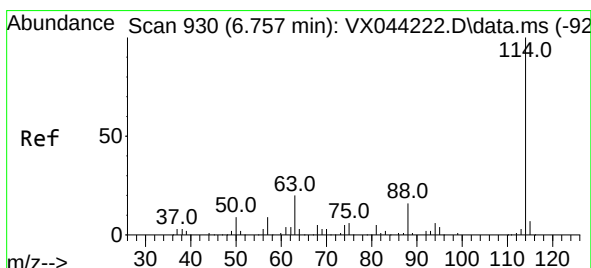
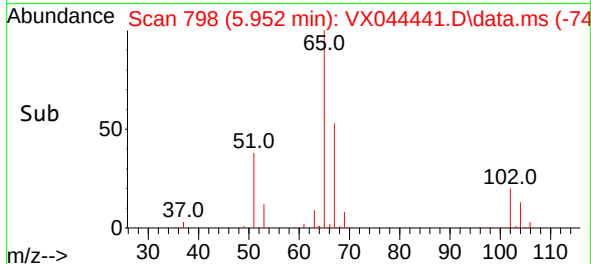
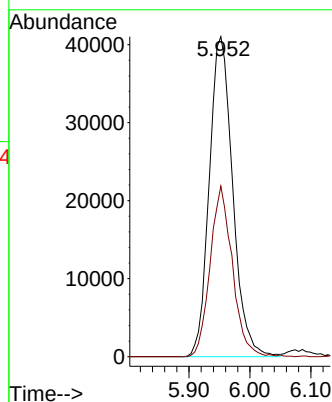
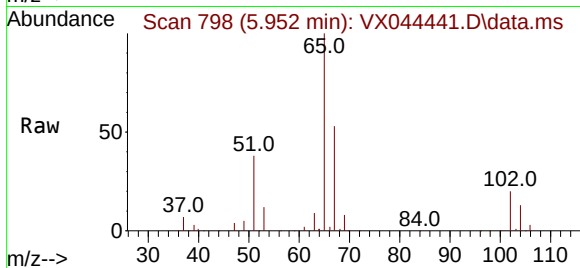
VX1220WBS01

Tgt Ion: 65 Resp: 109691

Ion Ratio Lower Upper

65 100

67 50.7 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

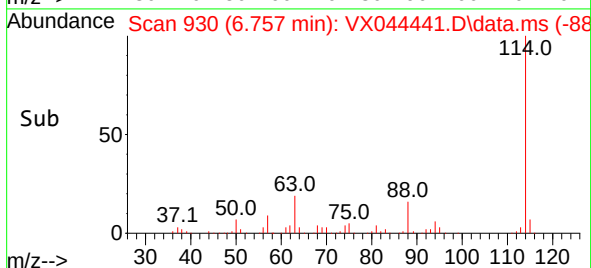
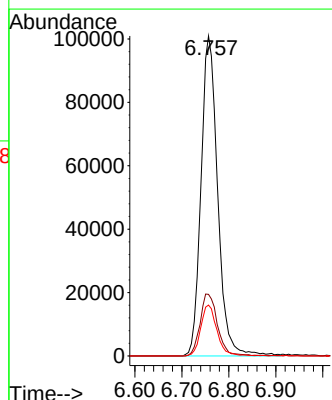
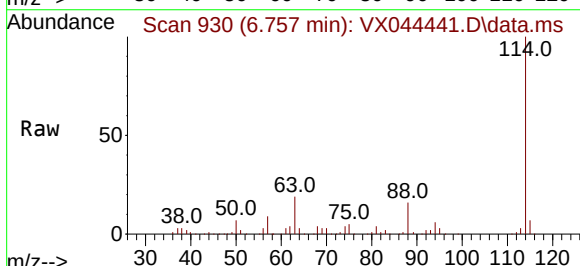
Tgt Ion: 114 Resp: 249173

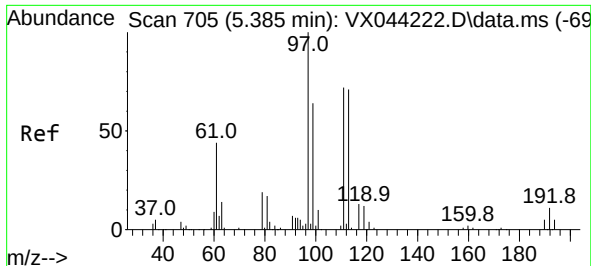
Ion Ratio Lower Upper

114 100

63 19.2 0.0 40.6

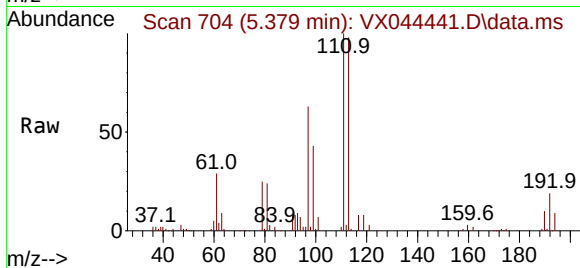
88 15.9 0.0 31.8



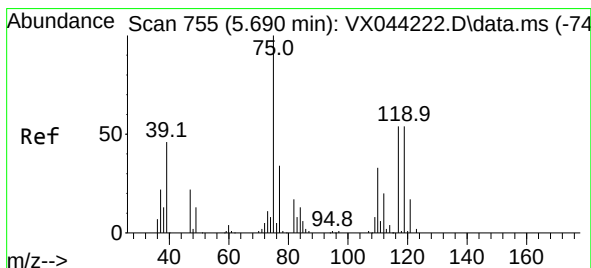
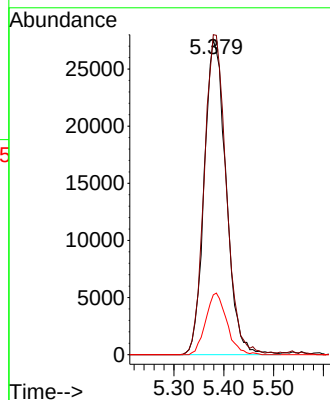
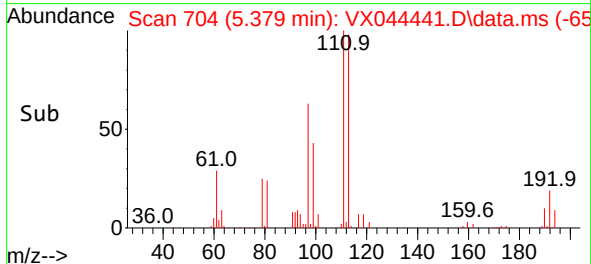


#35
Dibromofluoromethane
Concen: 48.541 ug/l
RT: 5.379 min Scan# 705
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

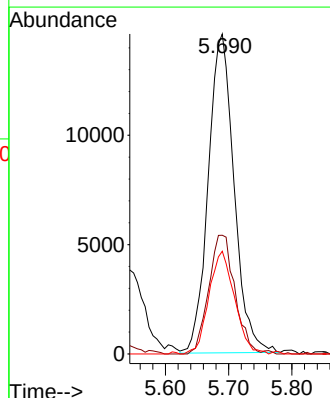
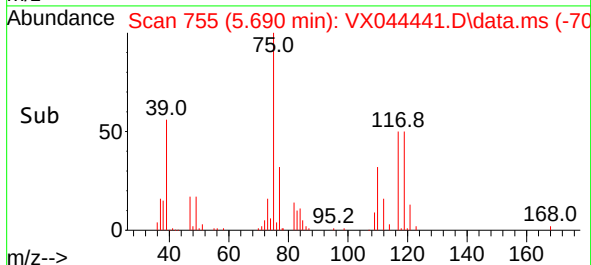
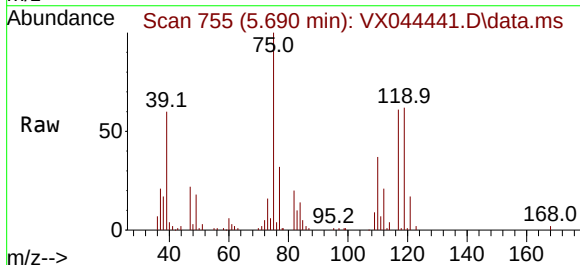


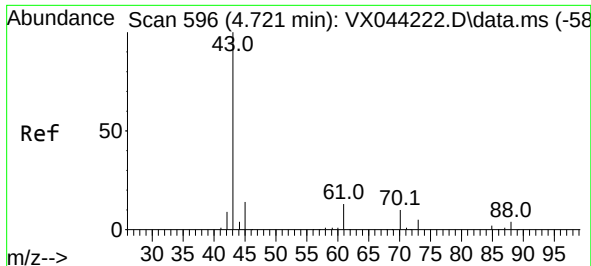
Tgt Ion:113 Resp: 83769
Ion Ratio Lower Upper
113 100
111 102.4 80.4 120.6
192 18.9 13.3 19.9



#36
1,1-Dichloropropene
Concen: 18.566 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 41416
Ion Ratio Lower Upper
75 100
110 37.6 17.3 51.7
77 31.9 25.4 38.0





#37

Ethyl Acetate

Concen: 17.412 ug/l

RT: 4.721 min Scan# 596

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

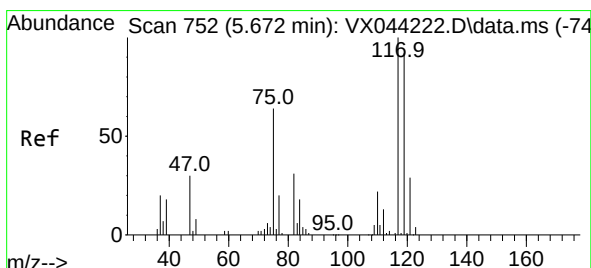
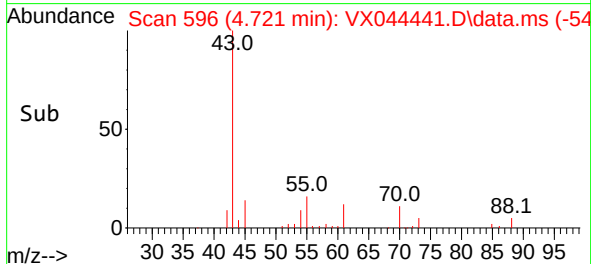
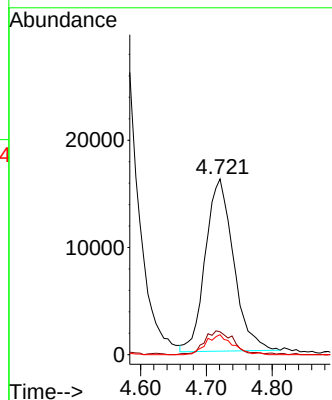
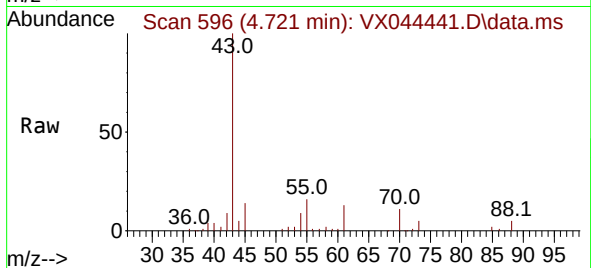
Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

Tgt Ion:	43	Resp:	48014
Ion	Ratio	Lower	Upper
43	100		
61	14.3	9.8	14.8
70	11.0	7.7	11.5



#38

Carbon Tetrachloride

Concen: 18.898 ug/l

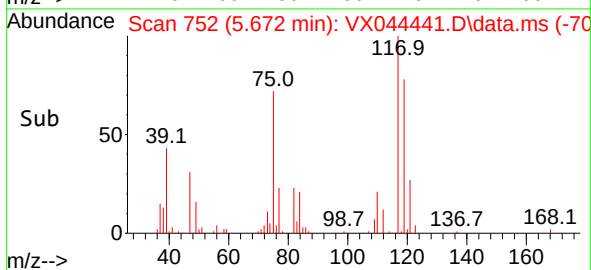
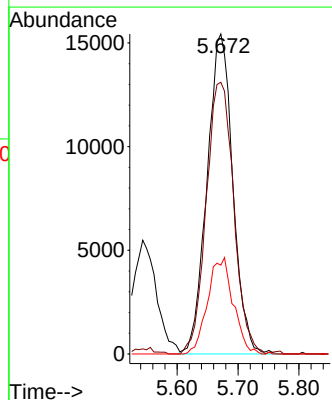
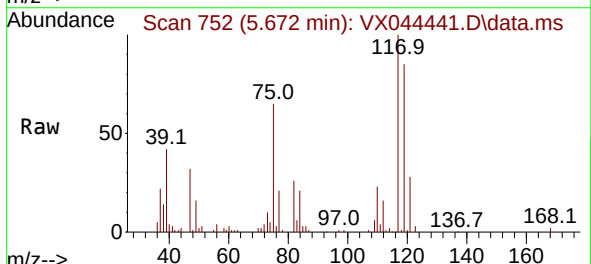
RT: 5.672 min Scan# 752

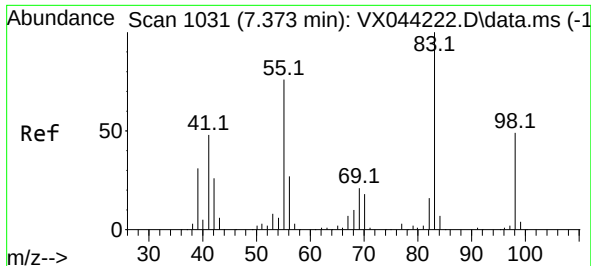
Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt Ion:	117	Resp:	45386
Ion	Ratio	Lower	Upper
117	100		
119	84.9	74.2	111.4
121	27.7	23.0	34.6





#39

Methylcyclohexane

Concen: 19.332 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

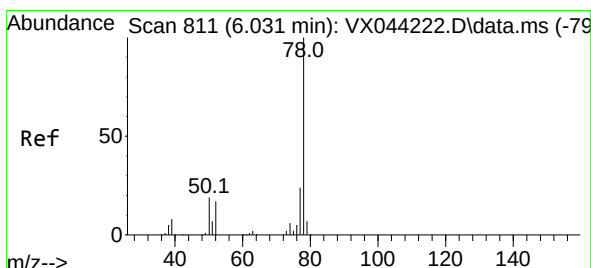
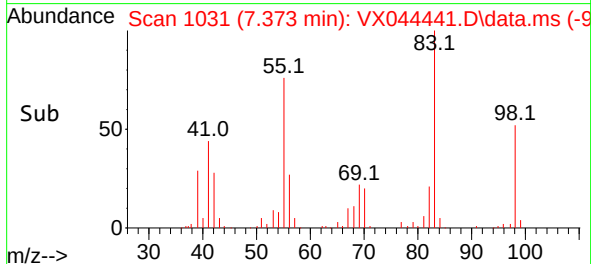
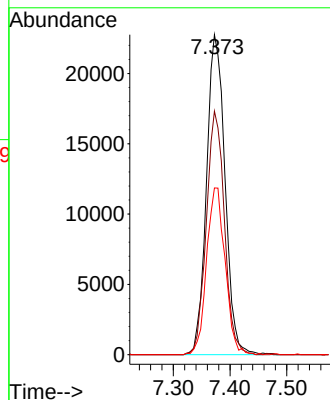
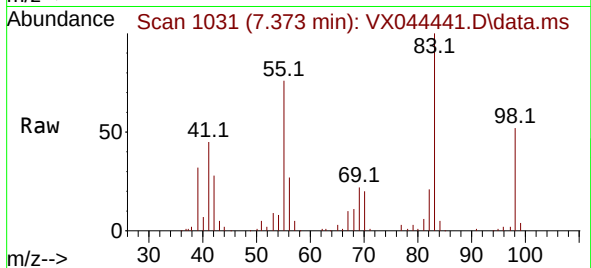
Tgt Ion: 83 Resp: 51554

Ion Ratio Lower Upper

83 100

55 76.1 60.7 91.1

98 52.1 38.9 58.3



#40

Benzene

Concen: 20.358 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX044441.D

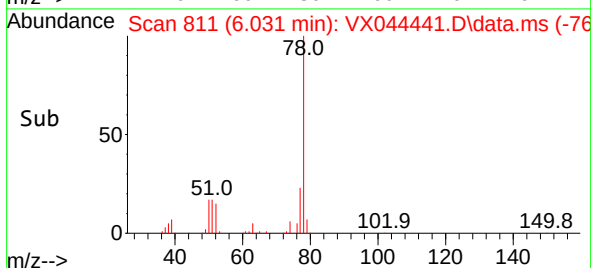
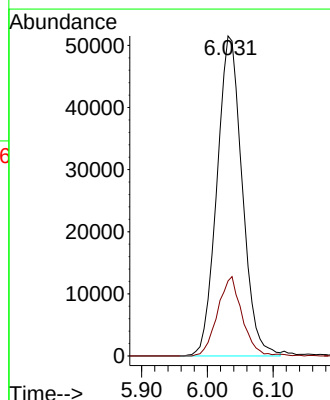
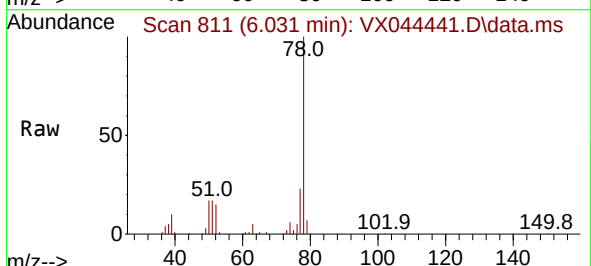
Acq: 20 Dec 2024 10:46

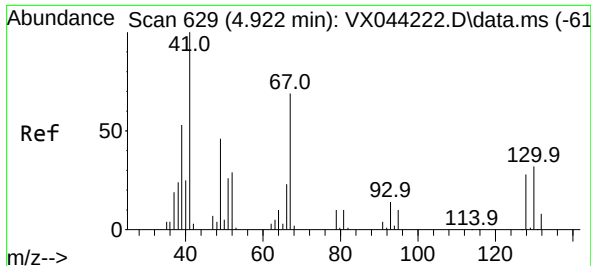
Tgt Ion: 78 Resp: 137885

Ion Ratio Lower Upper

78 100

77 23.5 19.3 28.9

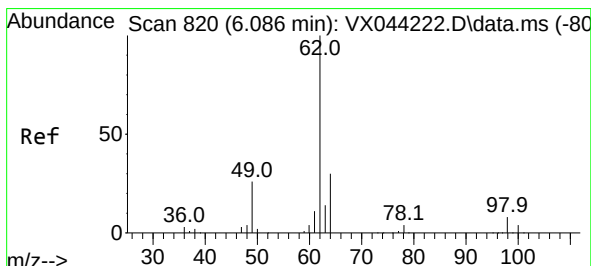
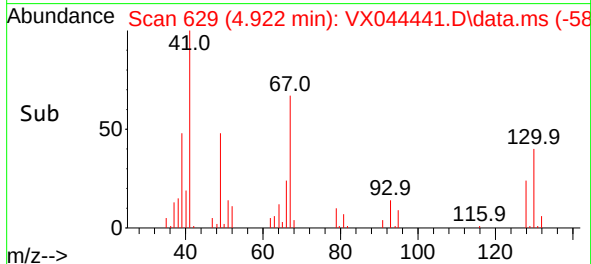
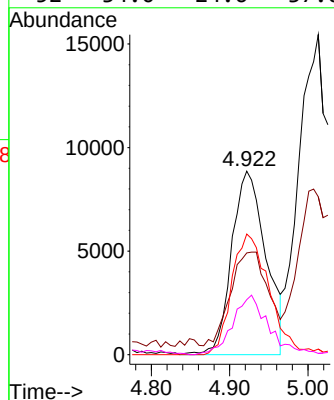
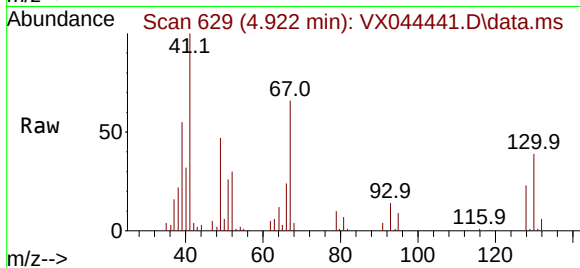




#41
Methacrylonitrile
Concen: 18.343 ug/l
RT: 4.922 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

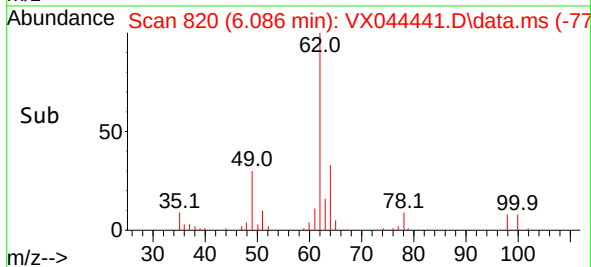
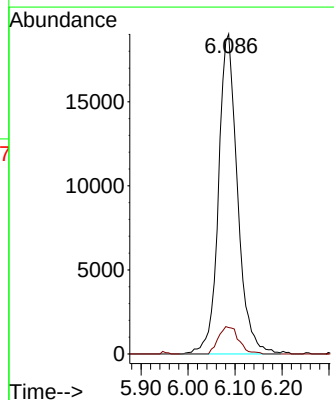
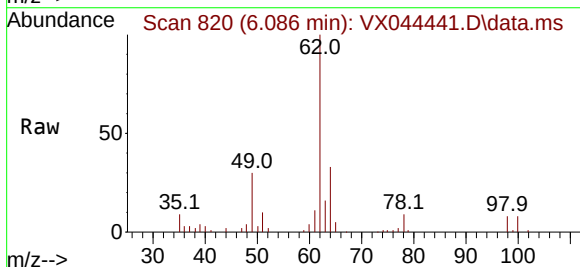
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

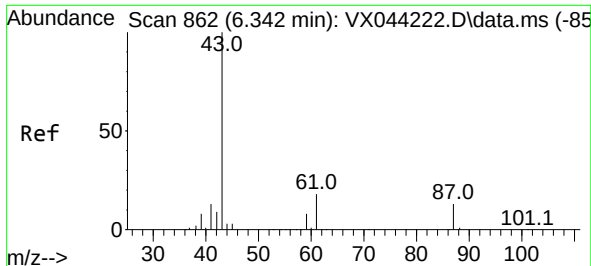
Tgt Ion:	41	Resp:	26859
Ion	Ratio	Lower	Upper
41	100		
39	56.0	44.2	66.4
67	72.8	57.2	85.8
52	34.0	24.6	37.0



#42
1,2-Dichloroethane
Concen: 19.207 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:	62	Resp:	53588
Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	15.8

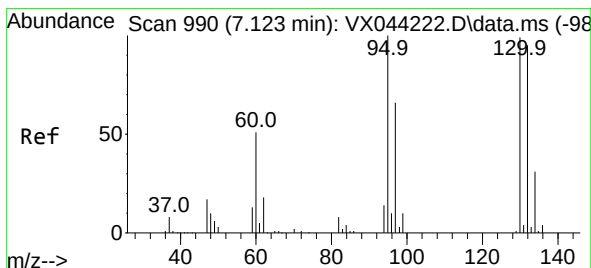
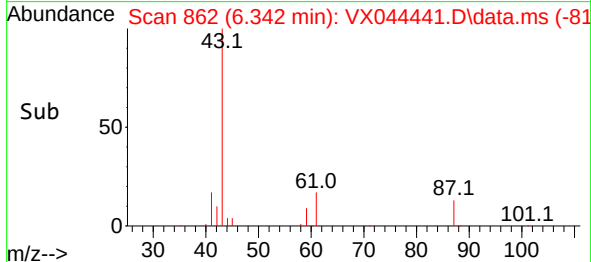
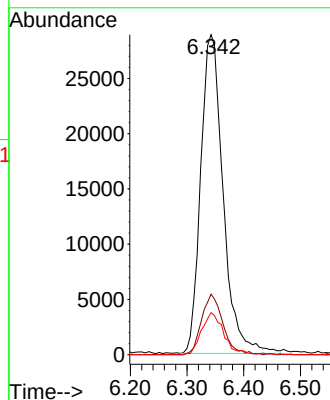
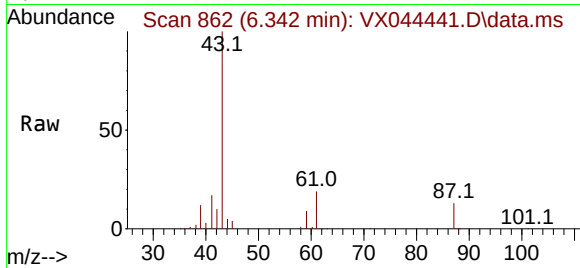




#43
Isopropyl Acetate
Concen: 18.378 ug/l
RT: 6.342 min Scan# 862
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

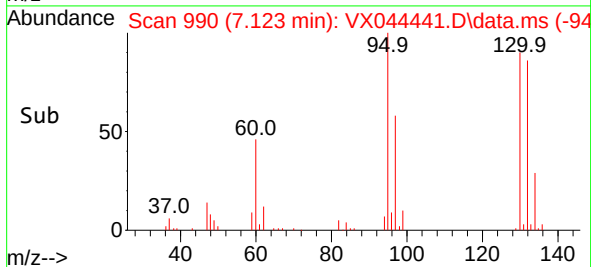
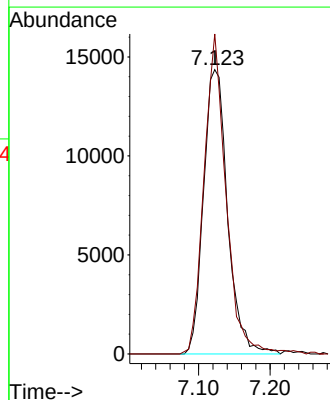
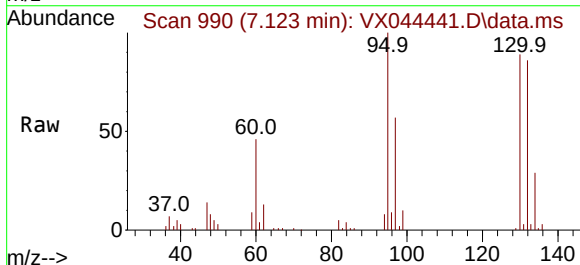
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

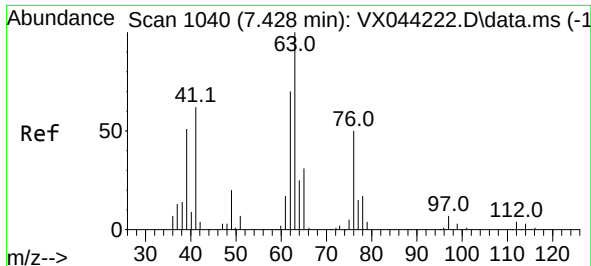
Tgt Ion: 43 Resp: 79207
Ion Ratio Lower Upper
43 100
61 18.0 14.2 21.2
87 12.9 10.2 15.2



#44
Trichloroethene
Concen: 19.902 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:130 Resp: 33615
Ion Ratio Lower Upper
130 100
95 112.5 0.0 201.4





#45

1,2-Dichloropropane

Concen: 19.077 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

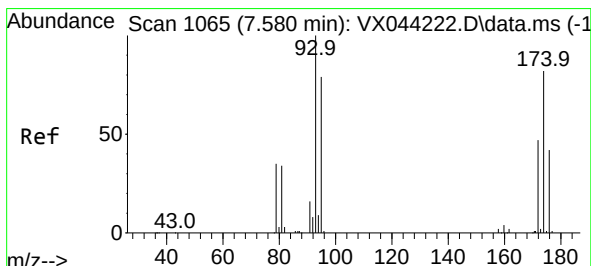
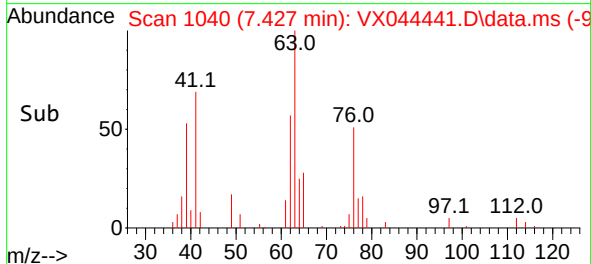
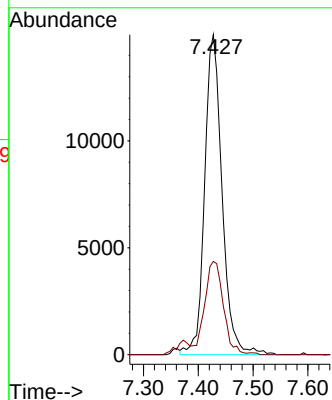
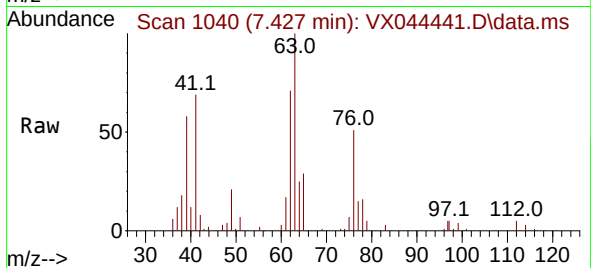
VX1220WBS01

Tgt Ion: 63 Resp: 33011

Ion Ratio Lower Upper

63 100

65 29.1 24.6 37.0



#46

Dibromomethane

Concen: 19.737 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

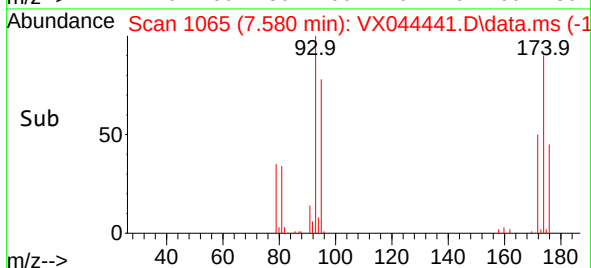
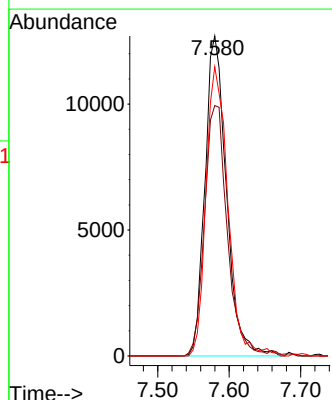
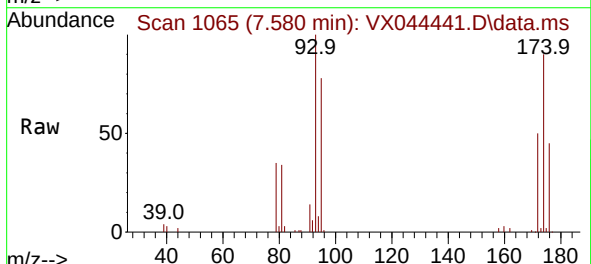
Tgt Ion: 93 Resp: 26495

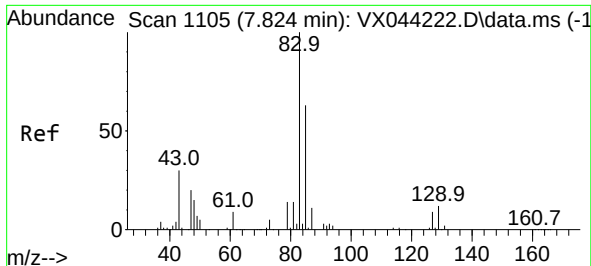
Ion Ratio Lower Upper

93 100

95 82.5 65.4 98.2

174 92.4 67.9 101.9

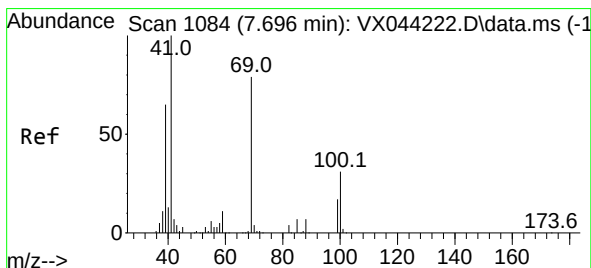
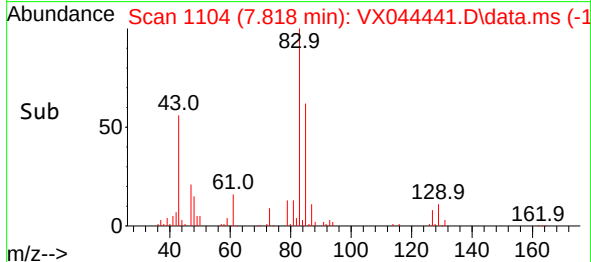
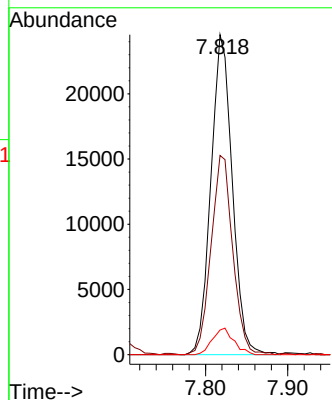
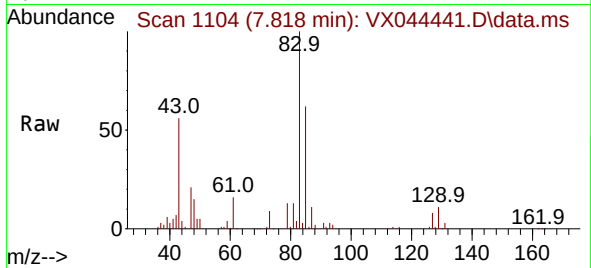




#47
Bromodichloromethane
Concen: 19.132 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

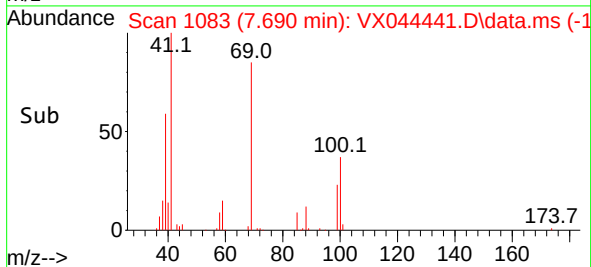
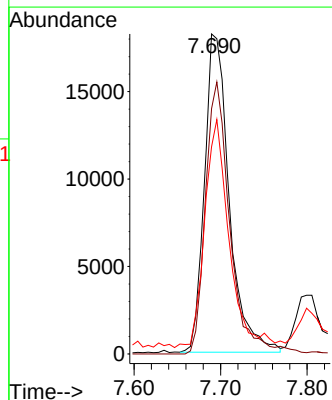
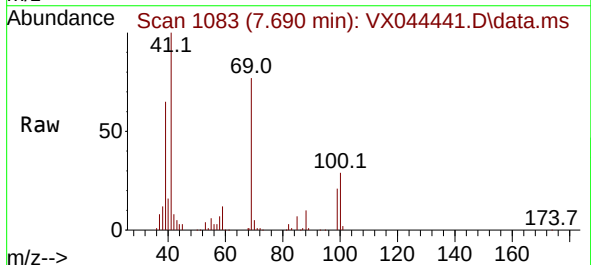
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

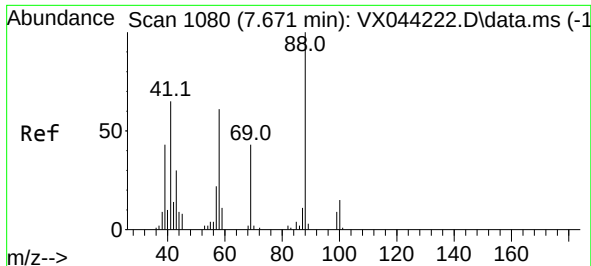
Tgt Ion: 83 Resp: 44357
Ion Ratio Lower Upper
83 100
85 62.2 50.6 75.8
127 7.7 7.3 10.9



#48
Methyl methacrylate
Concen: 17.281 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 41 Resp: 36154
Ion Ratio Lower Upper
41 100
69 84.8 62.4 93.6
39 70.2 53.3 79.9





#49

1,4-Dioxane

Concen: 292.846 ug/l

RT: 7.671 min Scan# 1080

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

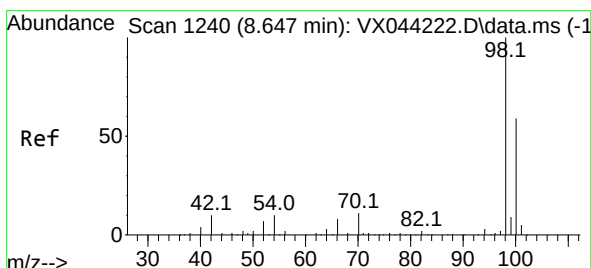
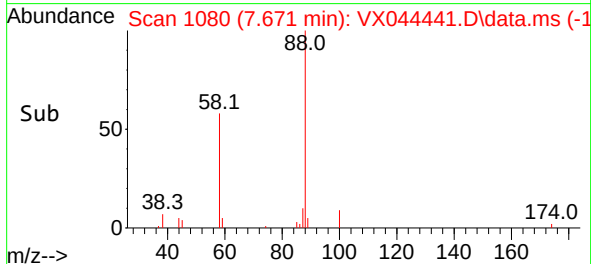
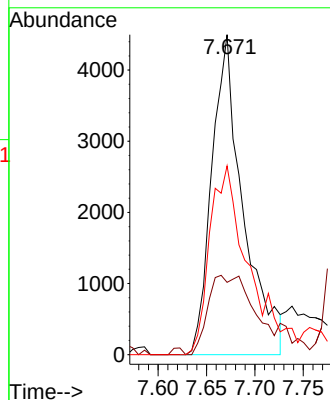
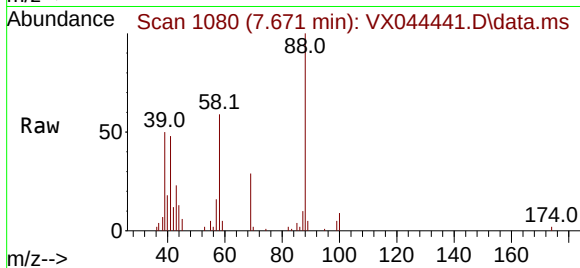
Tgt Ion: 88 Resp: 10158

Ion Ratio Lower Upper

88 100

43 36.0 27.1 40.7

58 73.5 41.0 61.4#



#50

Toluene-d8

Concen: 48.669 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX044441.D

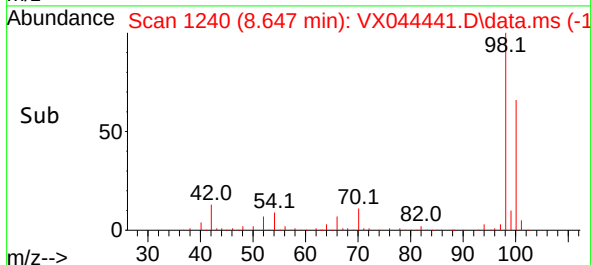
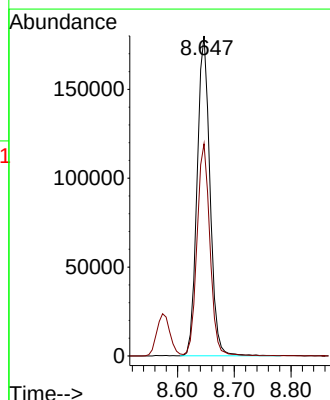
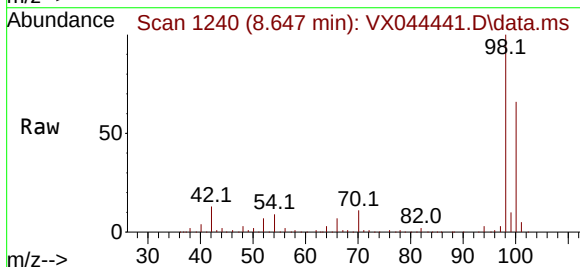
Acq: 20 Dec 2024 10:46

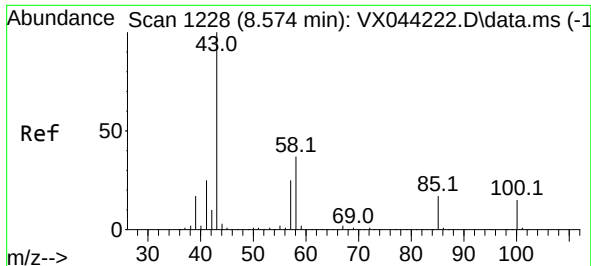
Tgt Ion: 98 Resp: 283358

Ion Ratio Lower Upper

98 100

100 66.4 51.5 77.3

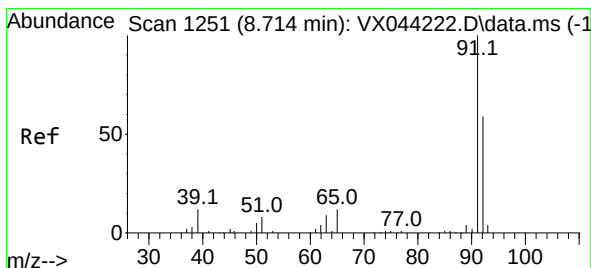
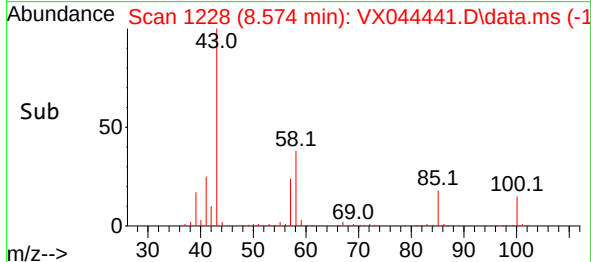
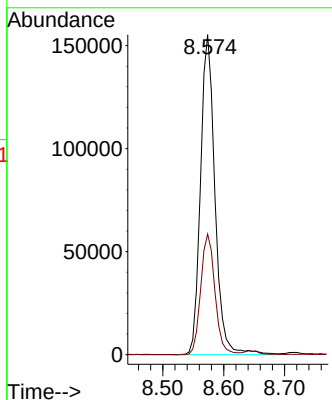
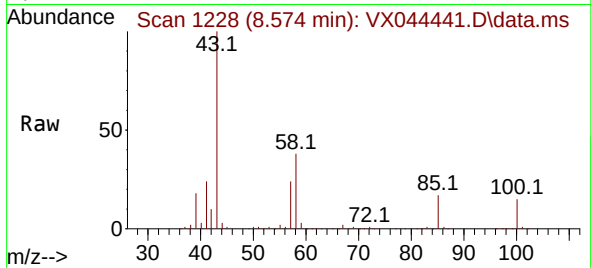




#51
4-Methyl-2-Pentanone
Concen: 92.373 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

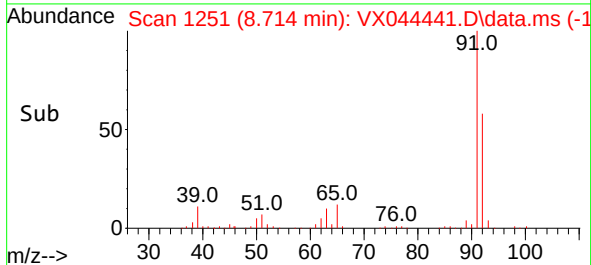
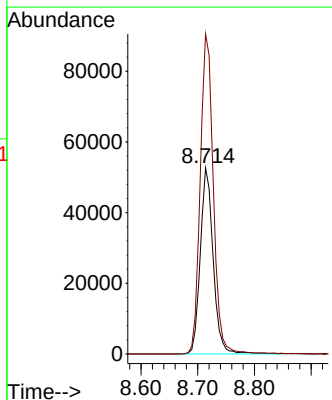
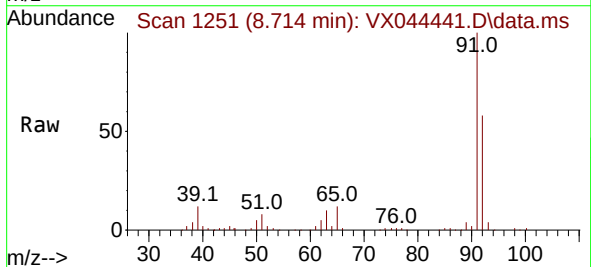
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

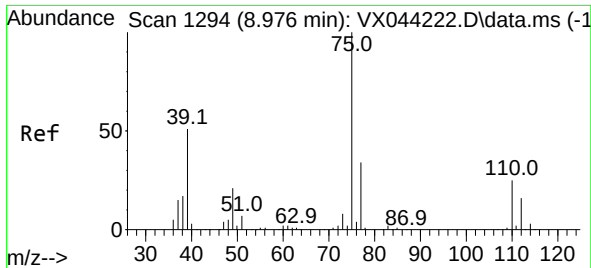
Tgt Ion: 43 Resp: 255984
Ion Ratio Lower Upper
43 100
58 37.2 29.4 44.0



#52
Toluene
Concen: 19.504 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 92 Resp: 82957
Ion Ratio Lower Upper
92 100
91 175.4 137.0 205.6

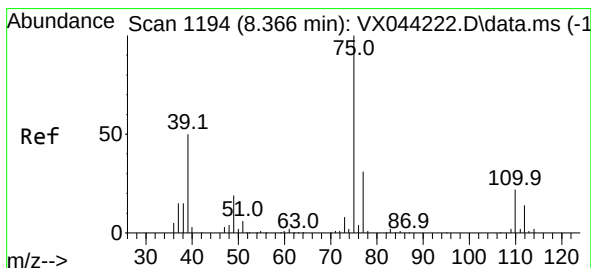
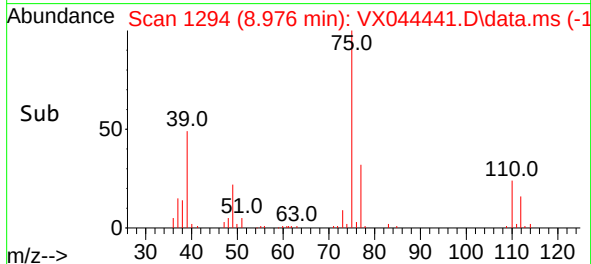
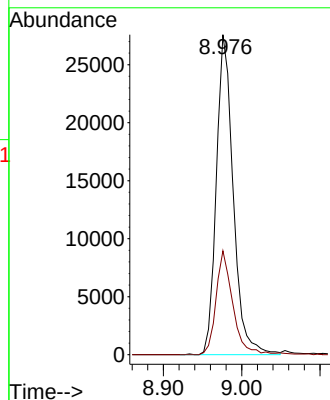
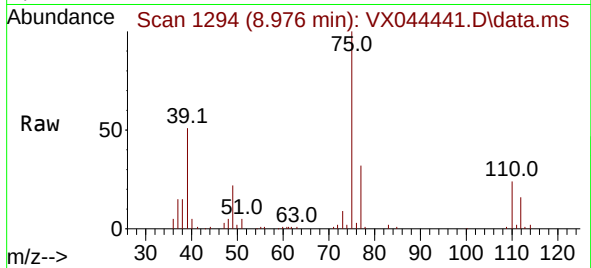




#53
 t-1,3-Dichloropropene
 Concen: 17.860 ug/l
 RT: 8.976 min Scan# 1194
 Delta R.T. -0.000 min
 Lab File: VX044441.D
 Acq: 20 Dec 2024 10:46

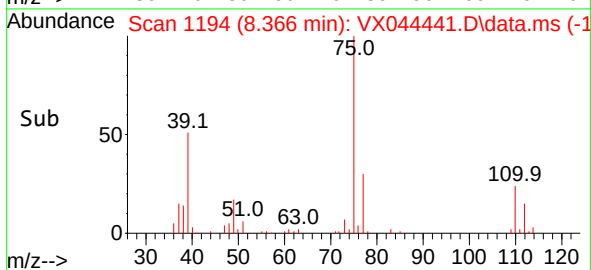
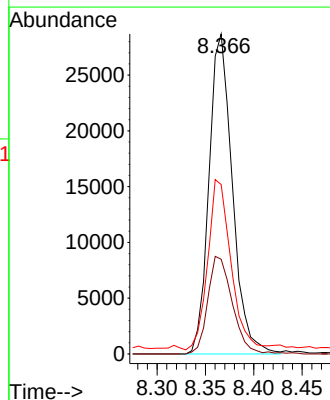
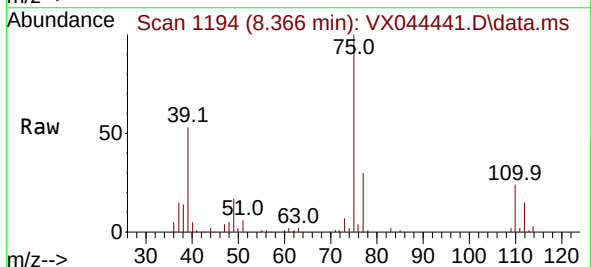
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1220WBS01

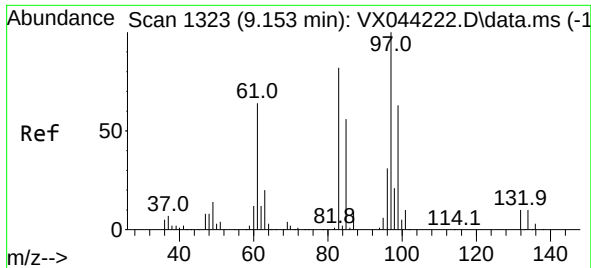
Tgt Ion: 75 Resp: 41417
 Ion Ratio Lower Upper
 75 100
 77 32.4 27.2 40.8



#54
 cis-1,3-Dichloropropene
 Concen: 19.157 ug/l
 RT: 8.366 min Scan# 1194
 Delta R.T. -0.000 min
 Lab File: VX044441.D
 Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 48359
 Ion Ratio Lower Upper
 75 100
 77 29.6 24.7 37.1
 39 51.1 40.3 60.5

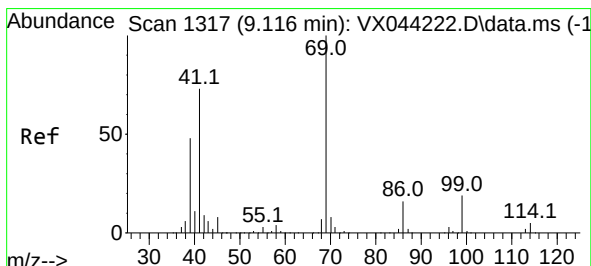
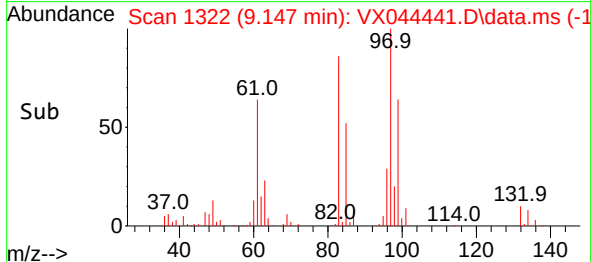
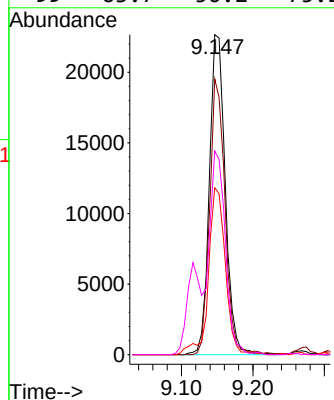
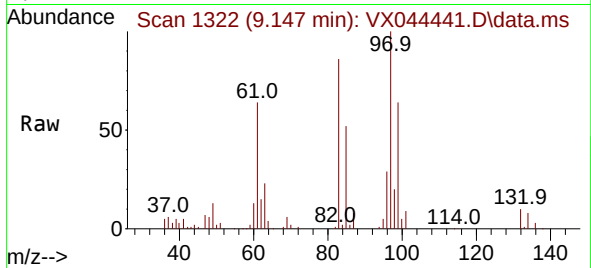




#55
1,1,2-Trichloroethane
Concen: 20.801 ug/l
RT: 9.147 min Scan# 1322
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

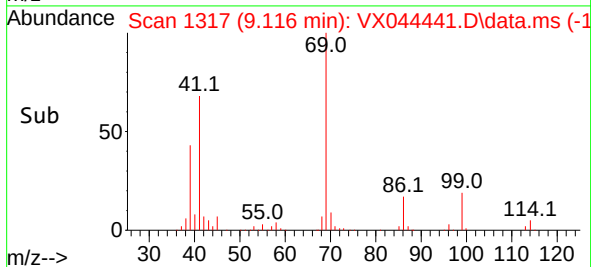
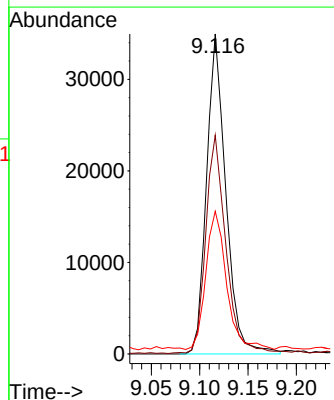
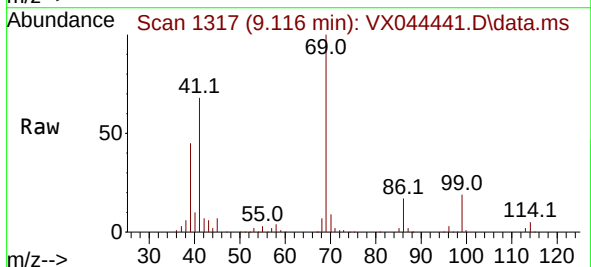
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

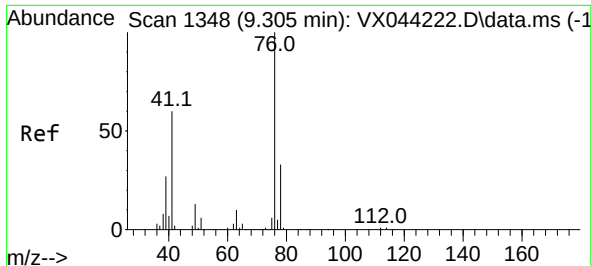
Tgt Ion:	97	Resp:	35148
Ion	Ratio	Lower	Upper
97	100		
83	86.1	65.3	97.9
85	51.7	44.6	67.0
99	63.7	50.2	75.2



#56
Ethyl methacrylate
Concen: 18.235 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:	69	Resp:	48642
Ion	Ratio	Lower	Upper
69	100		
41	71.0	56.6	85.0
39	46.3	37.4	56.0

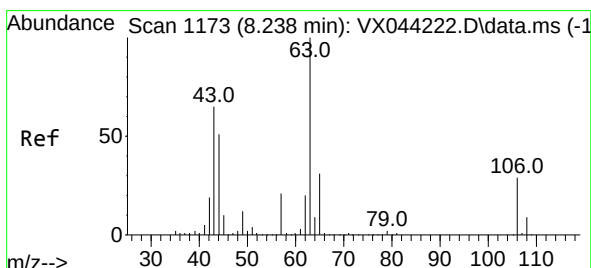
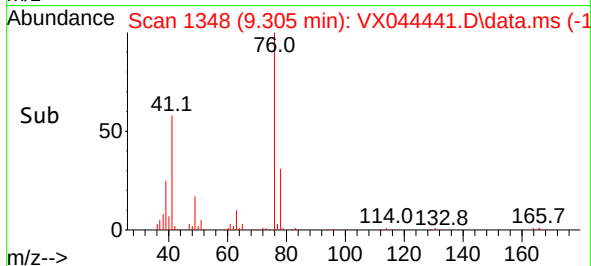
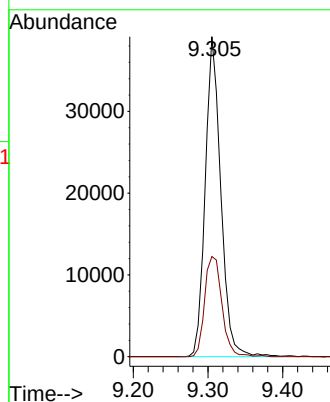
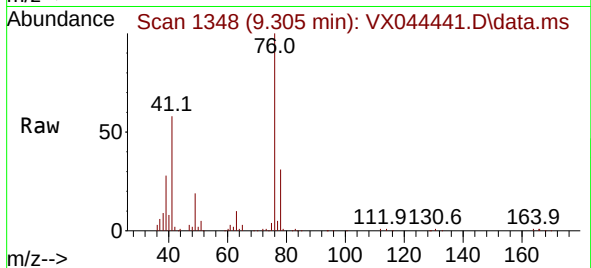




#57
1,3-Dichloropropane
Concen: 19.260 ug/l
RT: 9.305 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

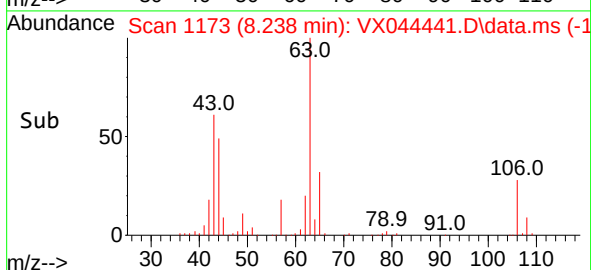
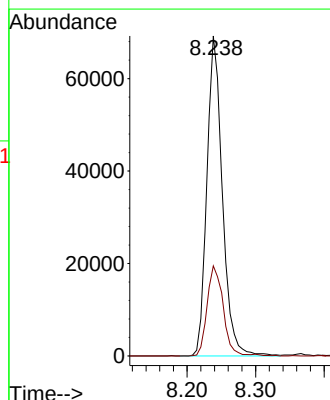
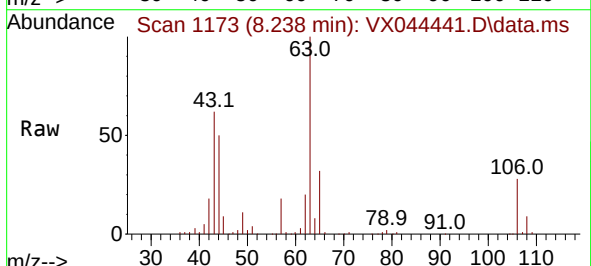
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

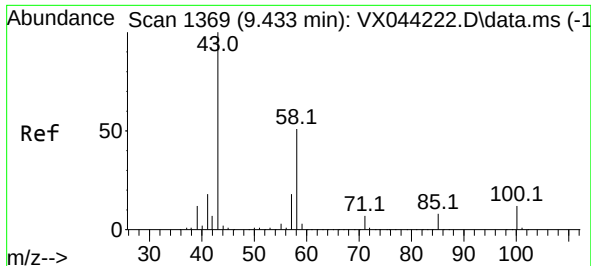
Tgt Ion: 76 Resp: 56644
Ion Ratio Lower Upper
76 100
78 34.8 26.5 39.7



#58
2-Chloroethyl Vinyl ether
Concen: 81.033 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 63 Resp: 109022
Ion Ratio Lower Upper
63 100
106 29.3 22.8 34.2

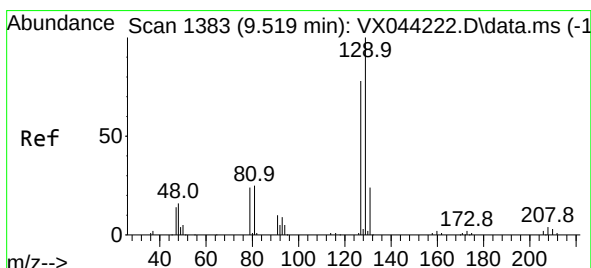
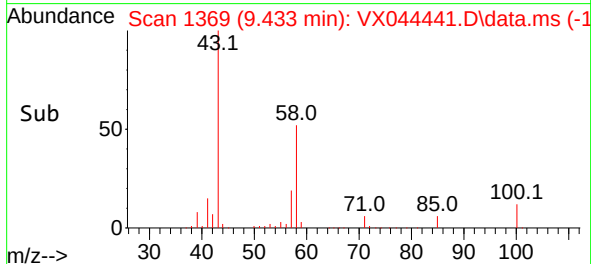
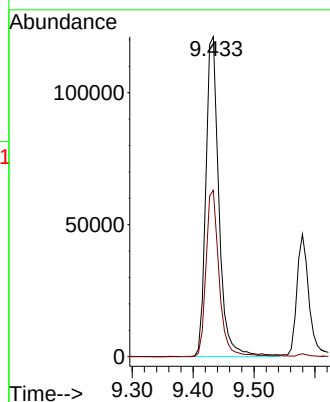
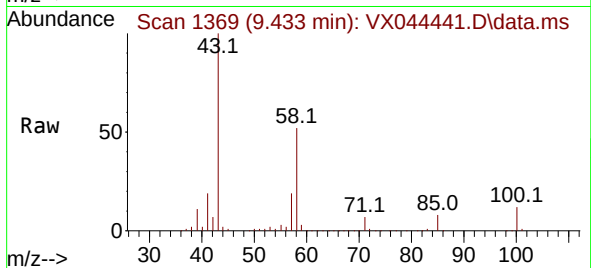




#59
2-Hexanone
Concen: 90.356 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

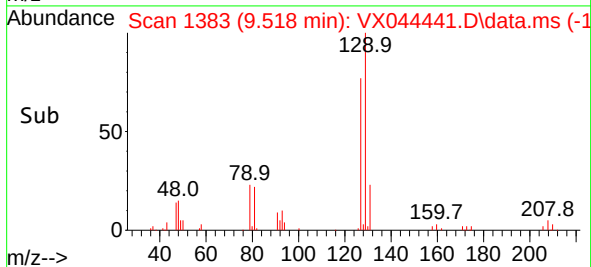
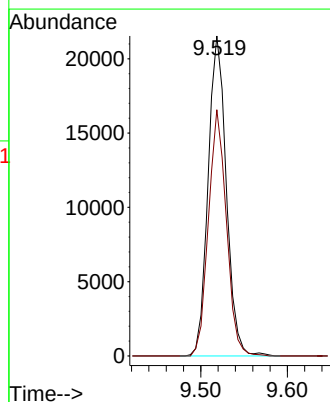
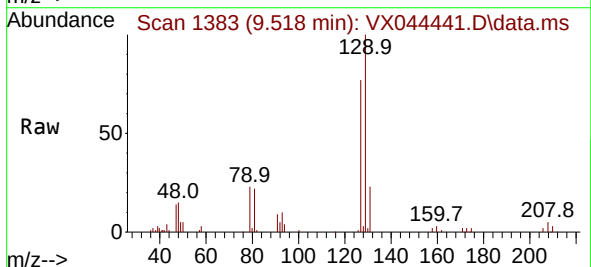
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

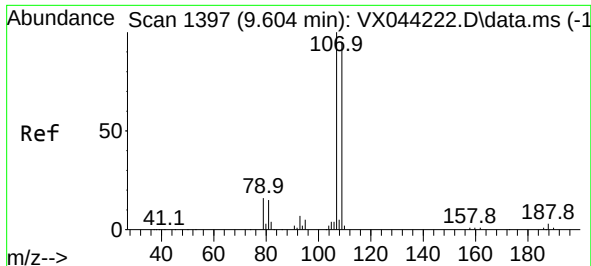
Tgt Ion: 43 Resp: 181241
Ion Ratio Lower Upper
43 100
58 52.2 25.7 77.0



#60
Dibromochloromethane
Concen: 18.848 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 129 Resp: 31411
Ion Ratio Lower Upper
129 100
127 75.9 38.5 115.3

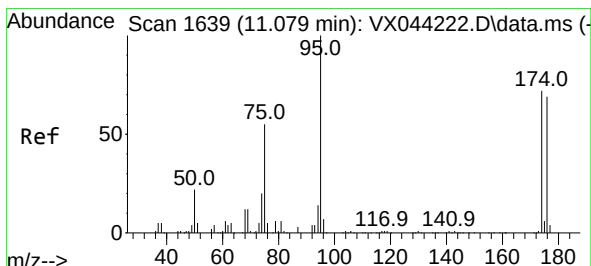
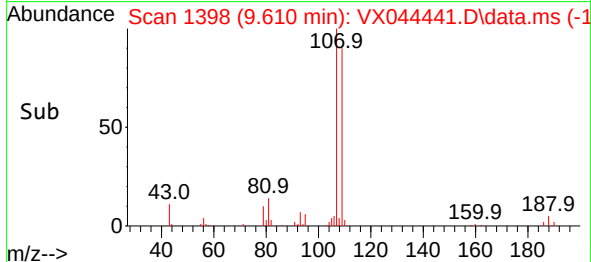
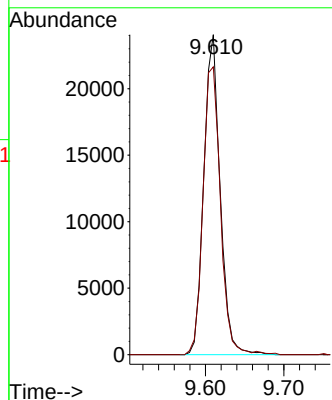
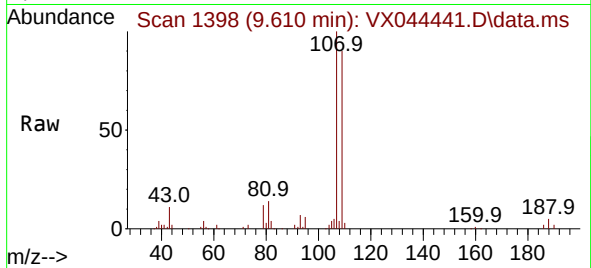




#61
1,2-Dibromoethane
Concen: 20.234 ug/l
RT: 9.610 min Scan# 1397
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

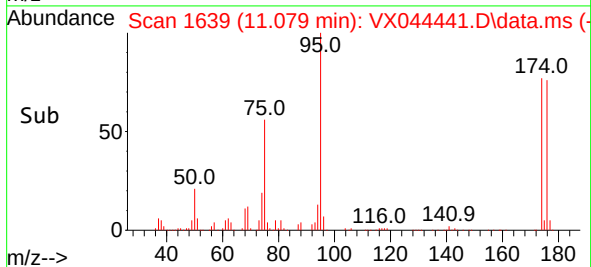
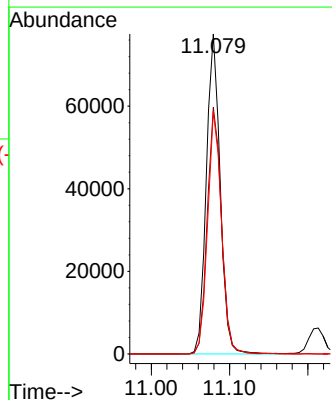
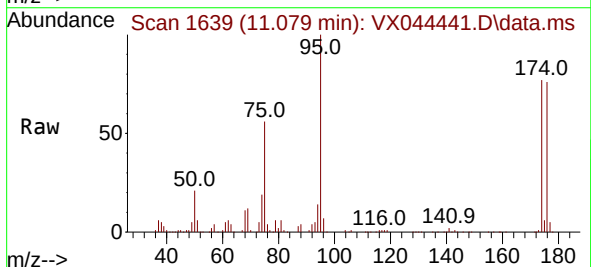
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

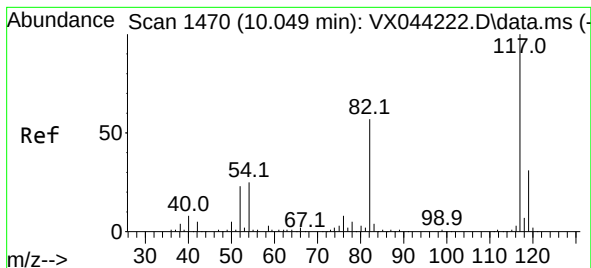
Tgt Ion:107 Resp: 34801
Ion Ratio Lower Upper
107 100
109 96.1 77.0 115.4



#62
4-Bromofluorobenzene
Concen: 46.443 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 95 Resp: 94485
Ion Ratio Lower Upper
95 100
174 79.5 0.0 145.8
176 76.2 0.0 137.8

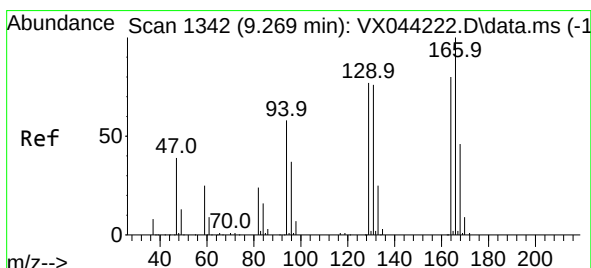
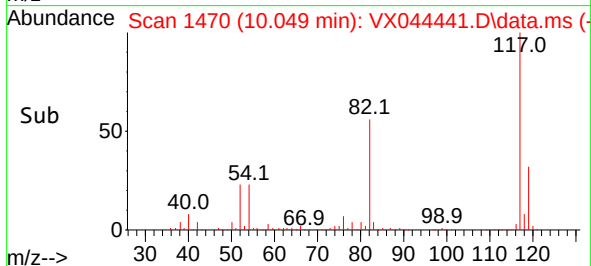
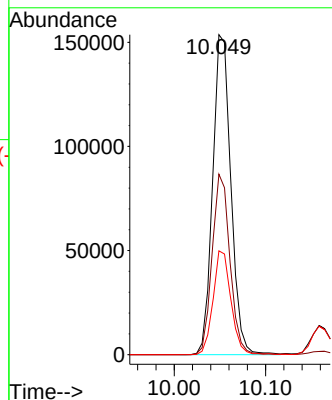
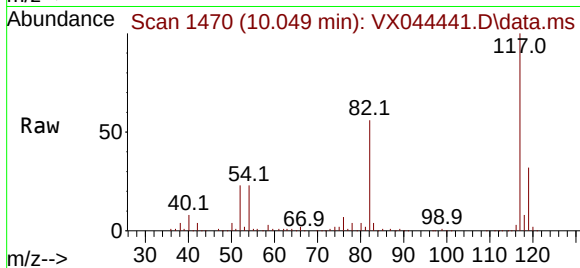




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

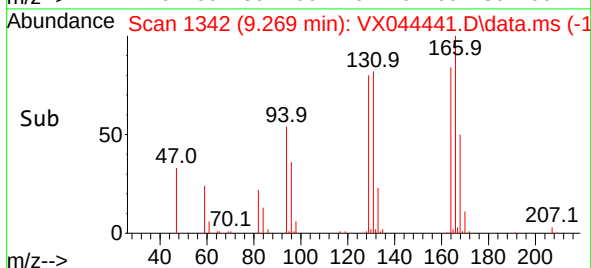
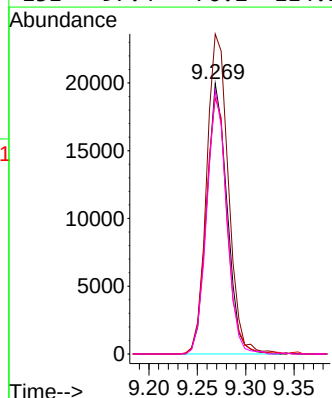
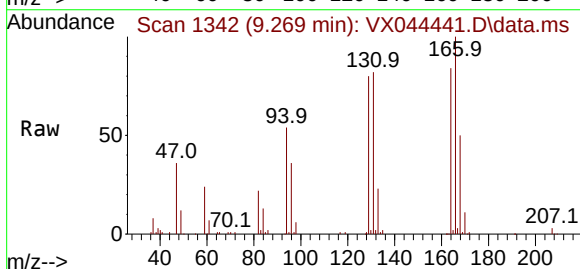
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

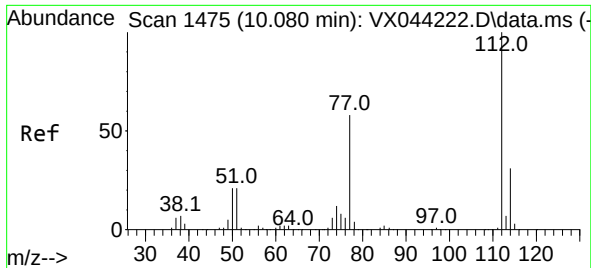
Tgt Ion:117	Resp:	212384	
Ion	Ratio	Lower	Upper
117	100		
82	56.4	45.8	68.8
119	32.5	25.0	37.4



#64
Tetrachloroethene
Concen: 20.762 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt	Ion:164	Resp:	29267
Ion	Ratio	Lower	Upper
164	100		
166	118.4	100.4	150.6
129	94.7	77.2	115.8
131	97.4	76.2	114.2

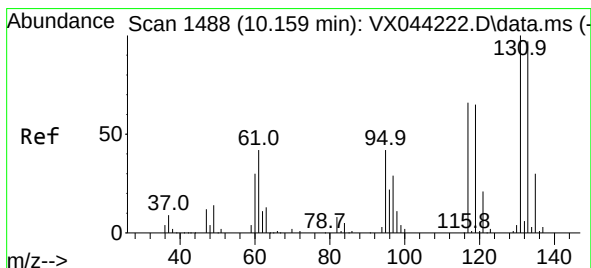
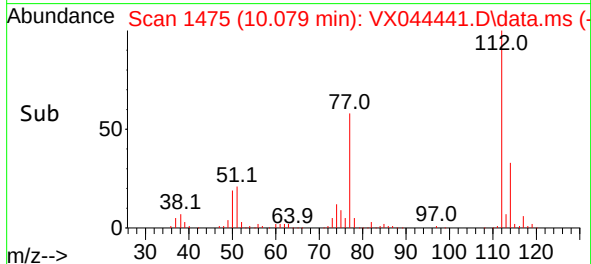
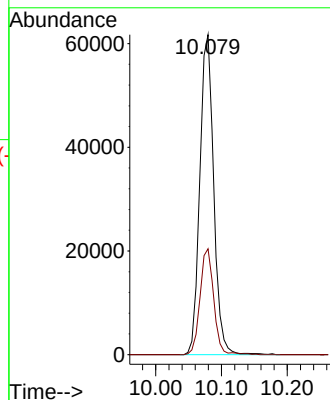
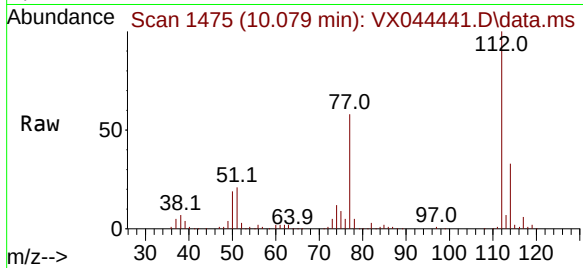




#65
Chlorobenzene
Concen: 19.906 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

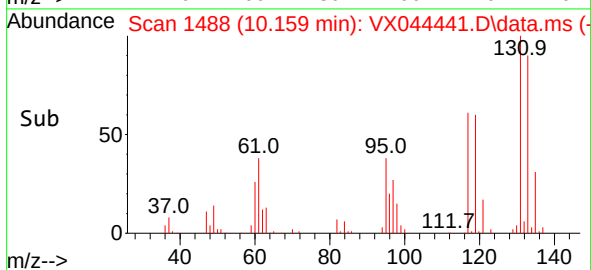
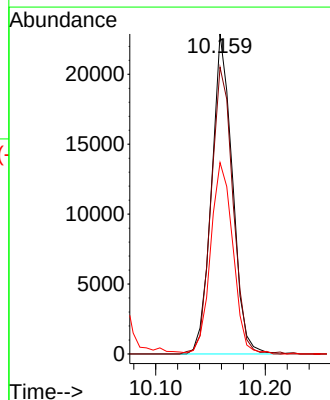
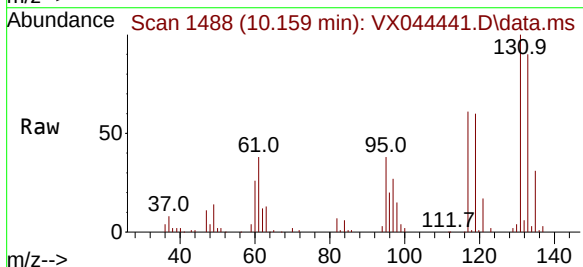
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

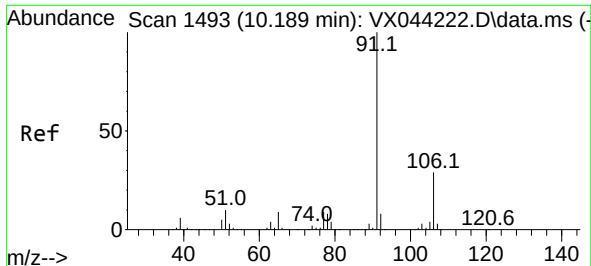
Tgt Ion:112 Resp: 90589
Ion Ratio Lower Upper
112 100
114 33.1 25.0 37.6



#66
1,1,1,2-Tetrachloroethane
Concen: 20.643 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:131 Resp: 30193
Ion Ratio Lower Upper
131 100
133 93.9 47.3 141.8
119 63.9 31.6 95.0





#67

Ethyl Benzene

Concen: 19.217 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

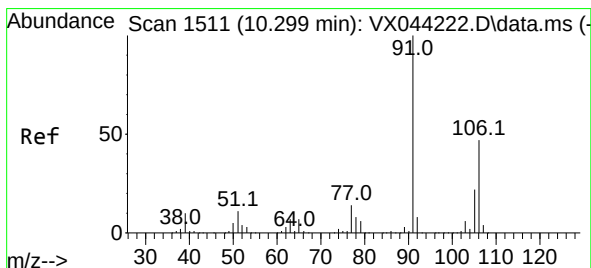
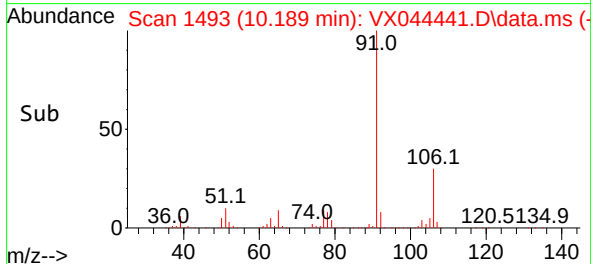
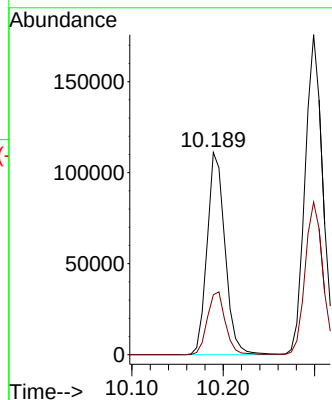
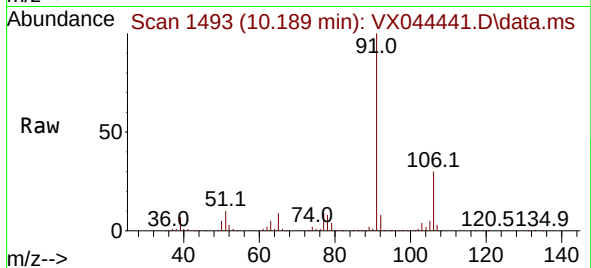
VX1220WBS01

Tgt Ion: 91 Resp: 151105

Ion Ratio Lower Upper

91 100

106 29.6 23.5 35.3



#68

m/p-Xylenes

Concen: 39.825 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX044441.D

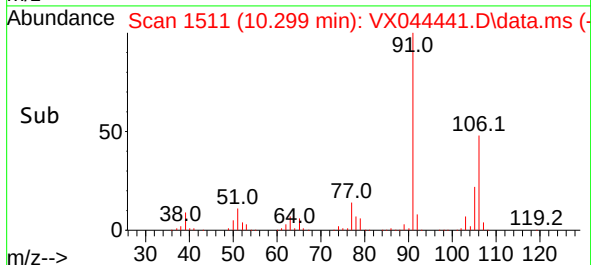
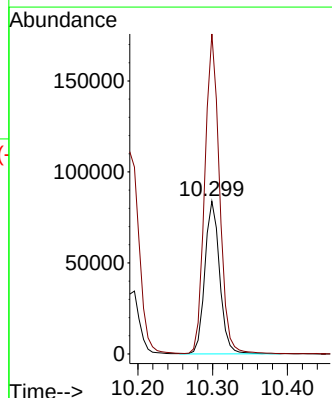
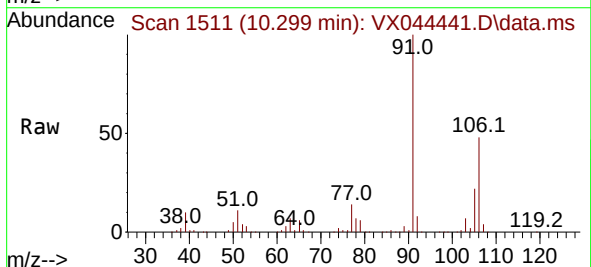
Acq: 20 Dec 2024 10:46

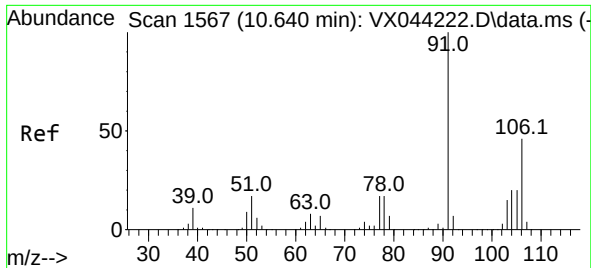
Tgt Ion: 106 Resp: 114910

Ion Ratio Lower Upper

106 100

91 208.6 170.2 255.2

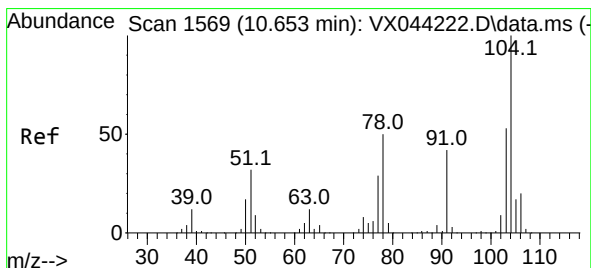
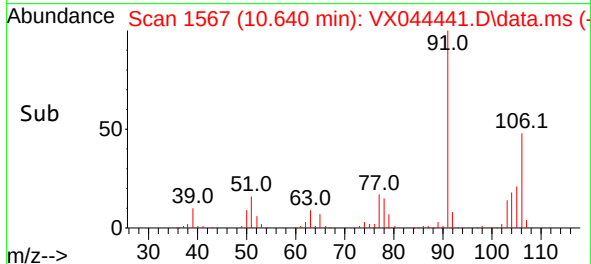
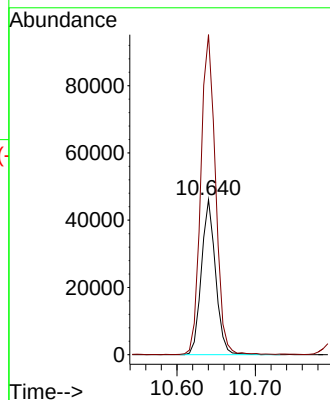
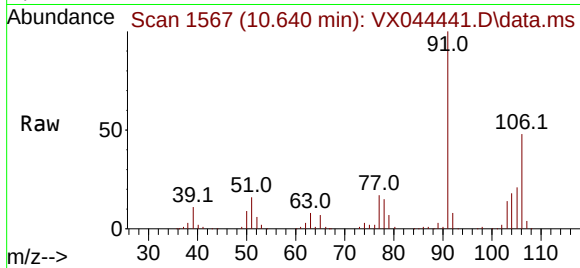




#69
o-Xylene
Concen: 19.797 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

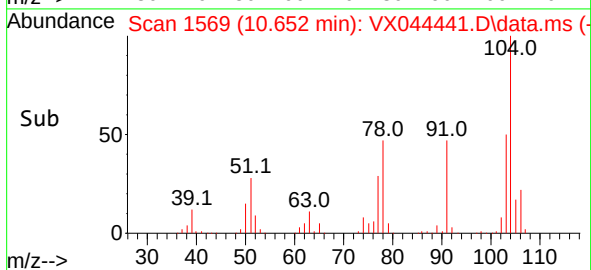
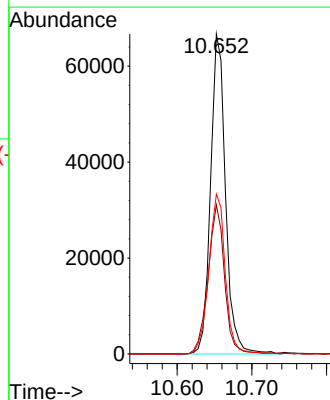
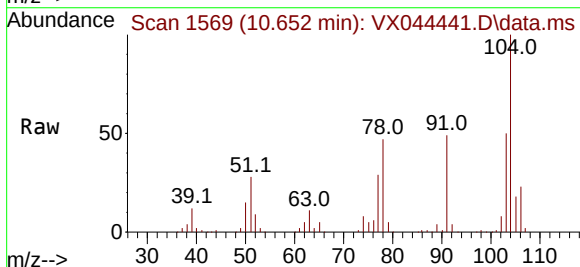
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

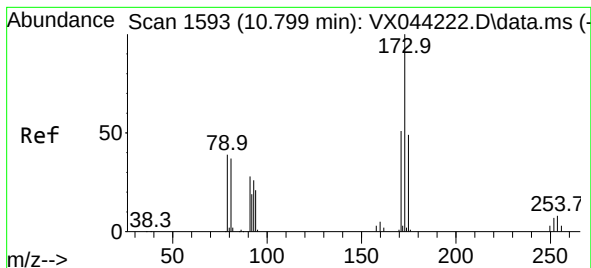
Tgt Ion:106 Resp: 57794
Ion Ratio Lower Upper
106 100
91 216.0 112.3 337.0



#70
Styrene
Concen: 19.825 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:104 Resp: 92784
Ion Ratio Lower Upper
104 100
78 51.2 44.6 67.0
103 55.0 45.4 68.0





#71

Bromoform

Concen: 19.275 ug/l

RT: 10.799 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

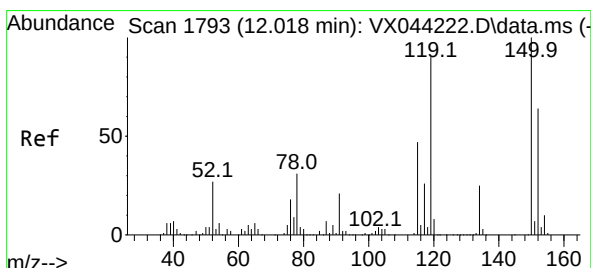
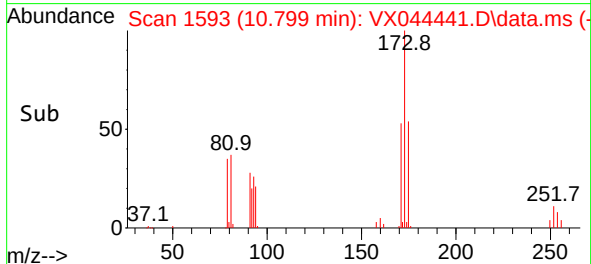
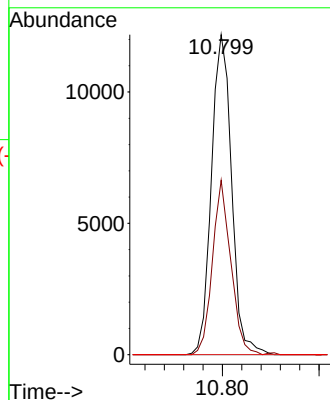
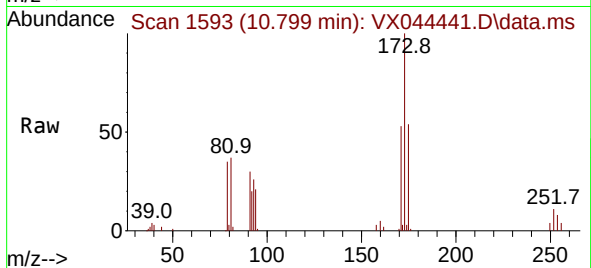
Tgt Ion:173 Resp: 17659

Ion Ratio Lower Upper

173 100

175 49.7 23.8 71.4

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

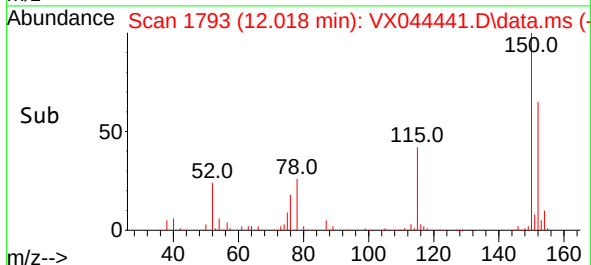
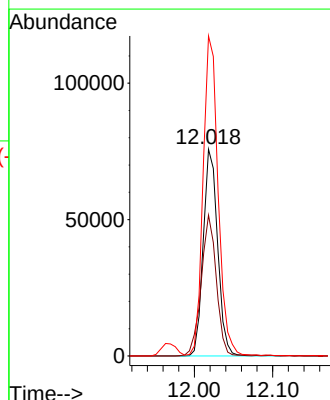
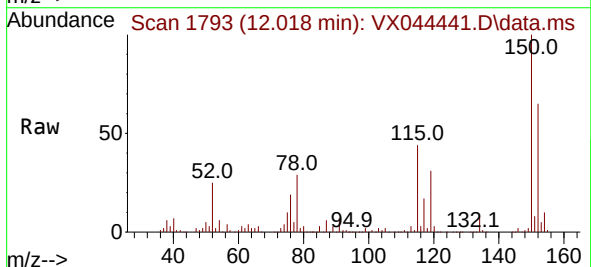
Tgt Ion:152 Resp: 96885

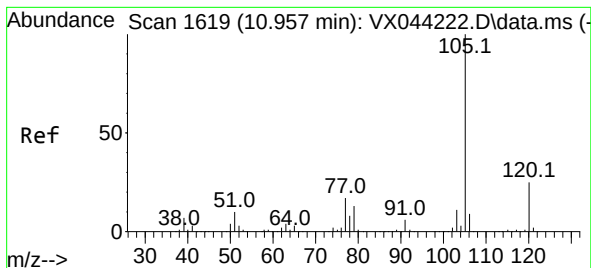
Ion Ratio Lower Upper

152 100

115 71.2 44.5 133.3

150 160.7 0.0 353.8





#73

Isopropylbenzene

Concen: 19.872 ug/l

RT: 10.963 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

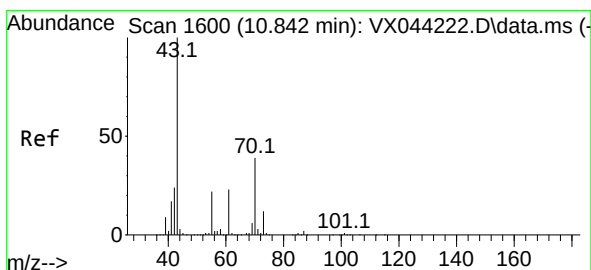
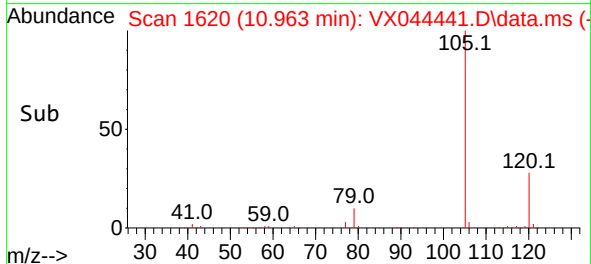
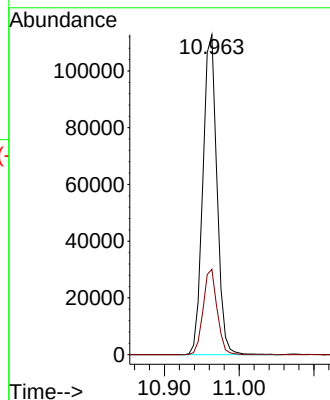
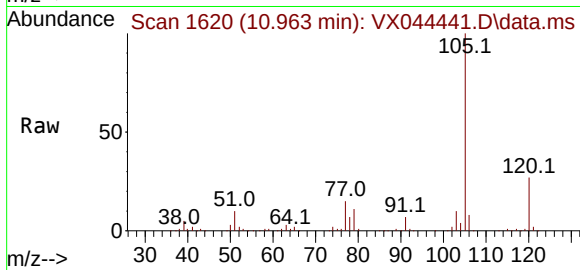
VX1220WBS01

Tgt Ion:105 Resp: 147393

Ion Ratio Lower Upper

105 100

120 26.5 13.1 39.3



#74

N-ethyl acetate

Concen: 18.038 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 61829

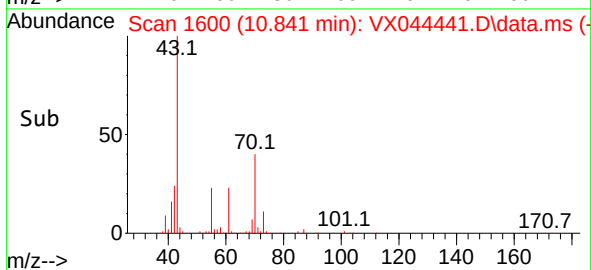
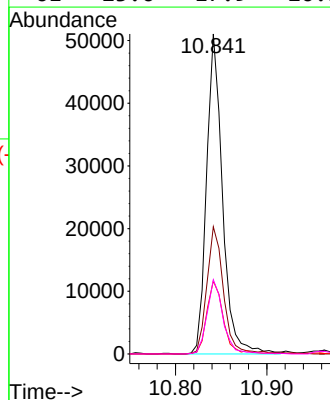
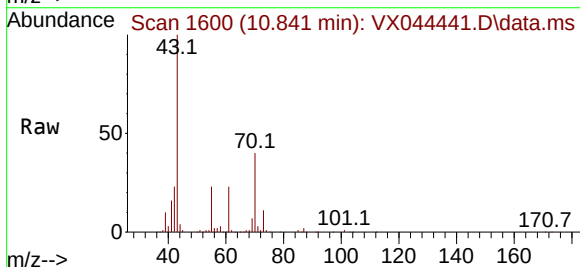
Ion Ratio Lower Upper

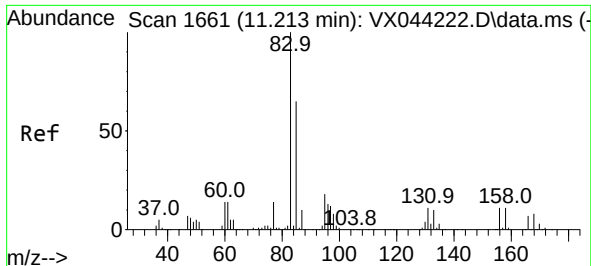
43 100

70 41.5 31.9 47.9

55 23.7 17.9 26.9

61 23.6 17.9 26.9

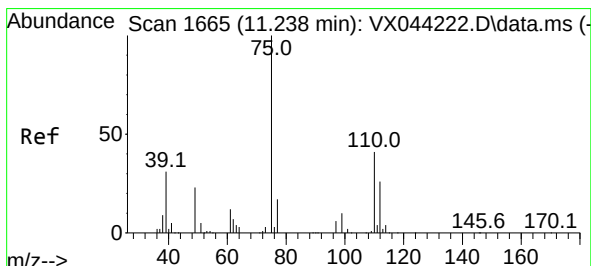
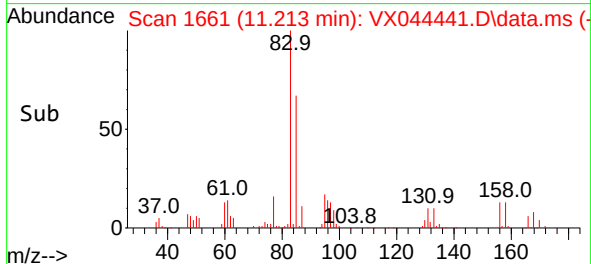
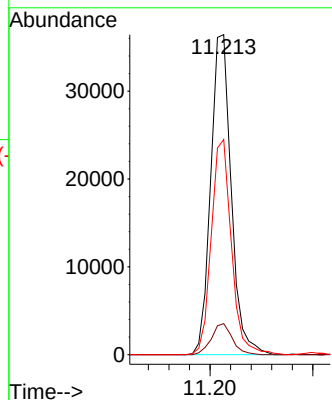
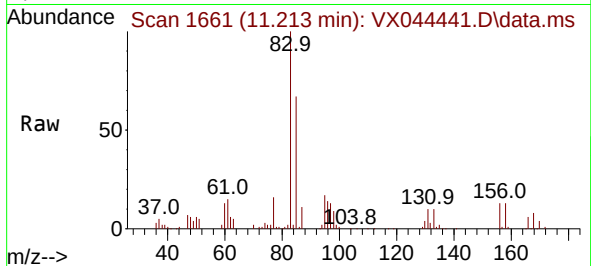




#75
 1,1,2,2-Tetrachloroethane
 Concen: 19.570 ug/l
 RT: 11.213 min Scan# 1661
 Delta R.T. -0.000 min
 Lab File: VX044441.D
 Acq: 20 Dec 2024 10:46

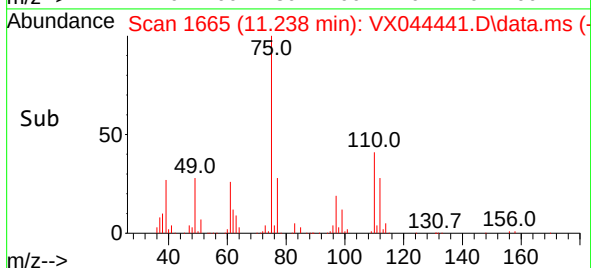
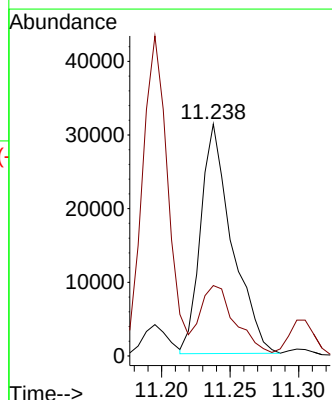
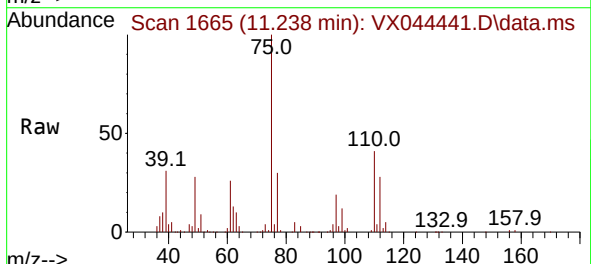
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1220WBS01

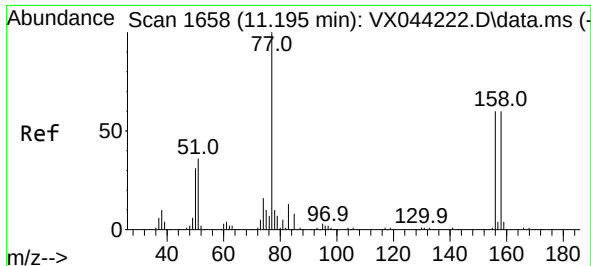
Tgt Ion: 83 Resp: 50416
 Ion Ratio Lower Upper
 83 100
 131 9.9 5.1 15.4
 85 65.9 32.5 97.4



#76
 1,2,3-Trichloropropane
 Concen: 23.007 ug/l
 RT: 11.238 min Scan# 1665
 Delta R.T. -0.000 min
 Lab File: VX044441.D
 Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 49769
 Ion Ratio Lower Upper
 75 100
 77 34.3 20.9 62.7

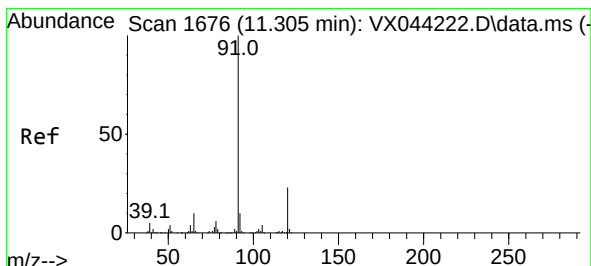
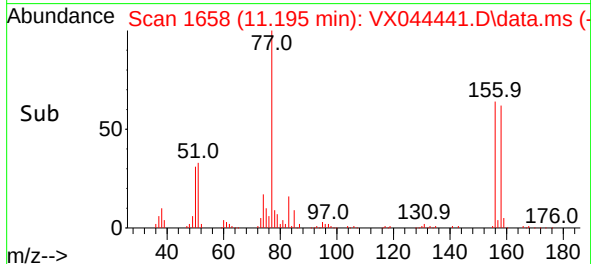
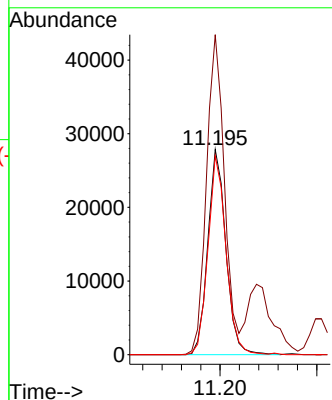
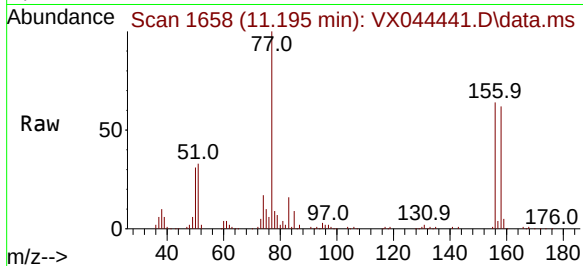




#77
Bromobenzene
Concen: 20.145 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

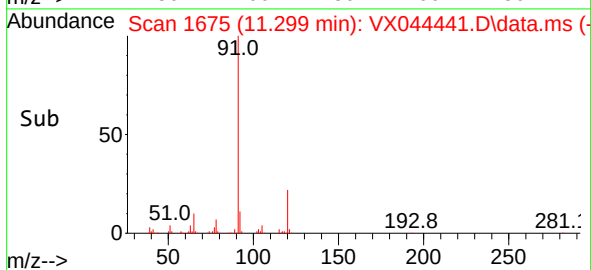
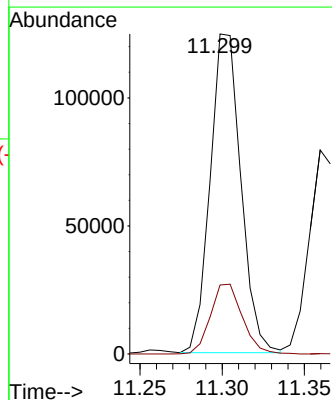
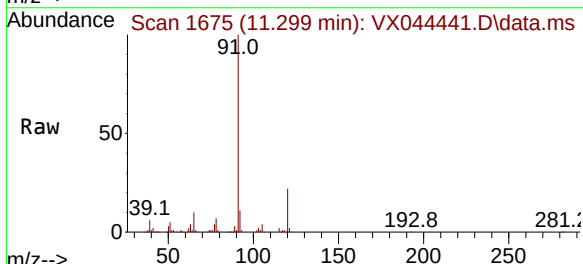
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

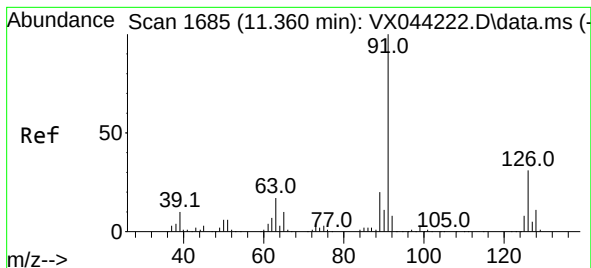
Tgt Ion:156 Resp: 36233
Ion Ratio Lower Upper
156 100
77 155.2 82.6 247.8
158 96.9 48.8 146.4



#78
n-propylbenzene
Concen: 19.765 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 91 Resp: 162028
Ion Ratio Lower Upper
91 100
120 22.8 11.0 33.0

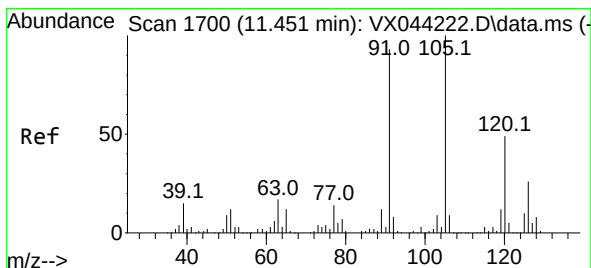
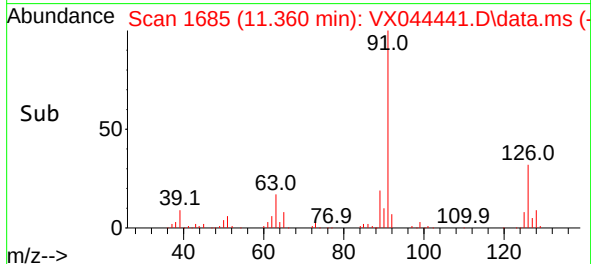
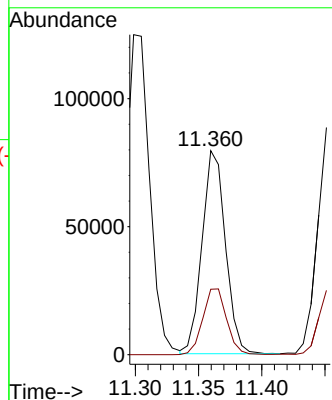
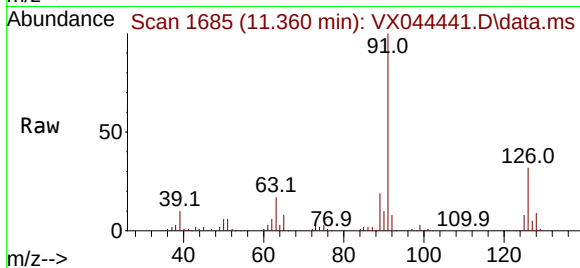




#79
2-Chlorotoluene
Concen: 19.279 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

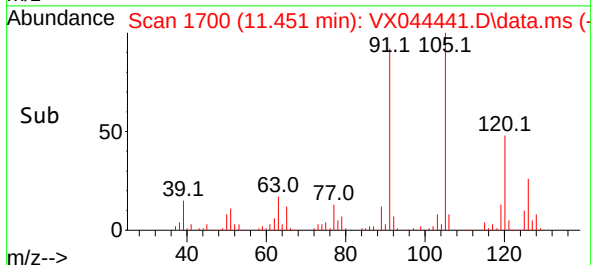
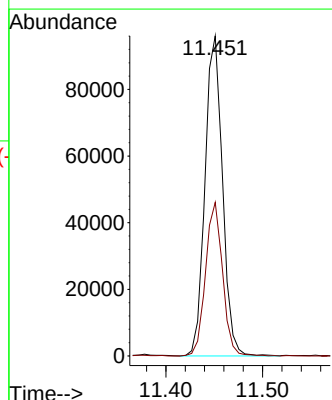
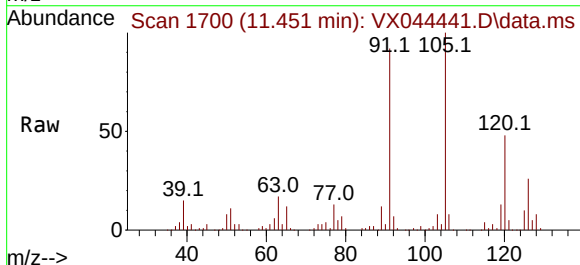
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

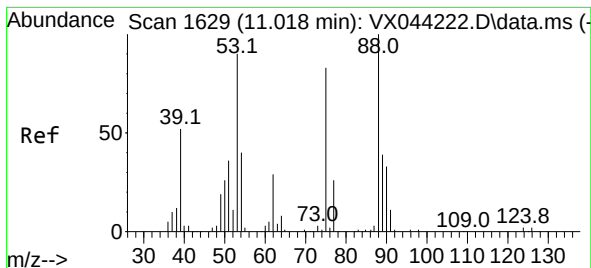
Tgt Ion: 91 Resp: 102209
Ion Ratio Lower Upper
91 100
126 33.0 16.4 49.1



#80
1,3,5-Trimethylbenzene
Concen: 19.709 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 105 Resp: 121225
Ion Ratio Lower Upper
105 100
120 46.7 23.8 71.4

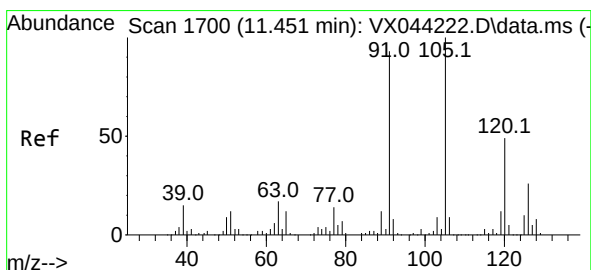
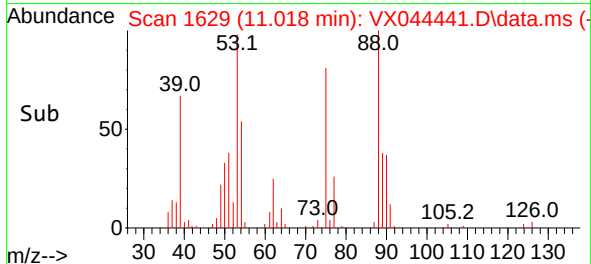
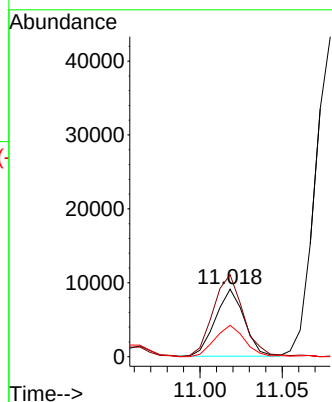
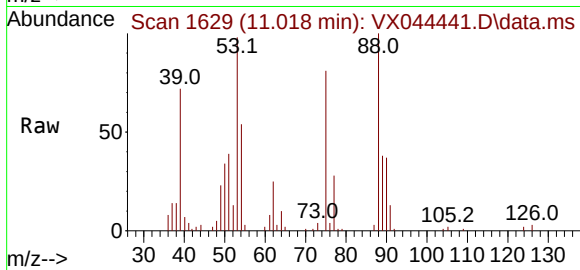




#81
trans-1,4-Dichloro-2-butene
Concen: 18.609 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

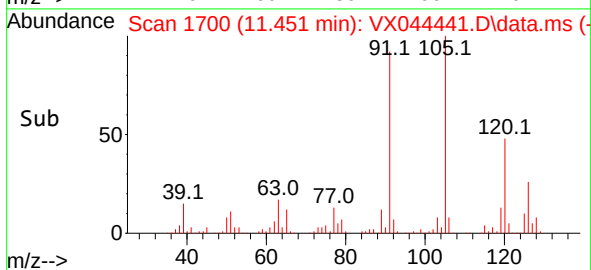
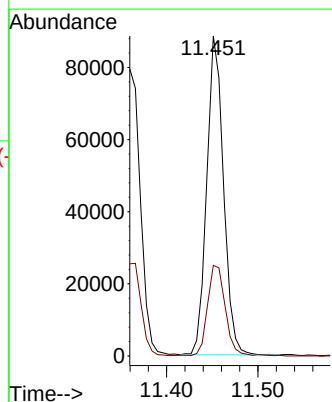
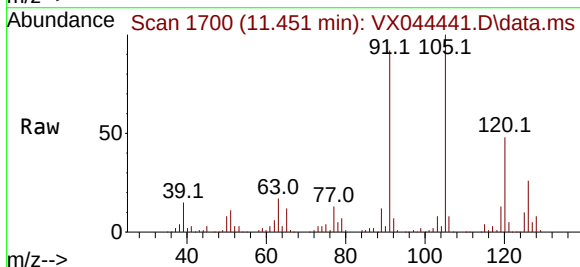
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

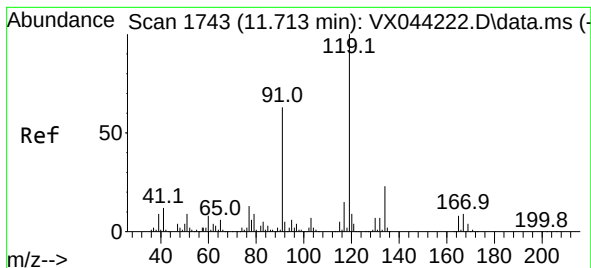
Tgt Ion: 75 Resp: 11072
Ion Ratio Lower Upper
75 100
53 129.5 93.6 140.4
89 48.5 37.3 55.9



#82
4-Chlorotoluene
Concen: 19.122 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 91 Resp: 112263
Ion Ratio Lower Upper
91 100
126 30.4 14.5 43.5

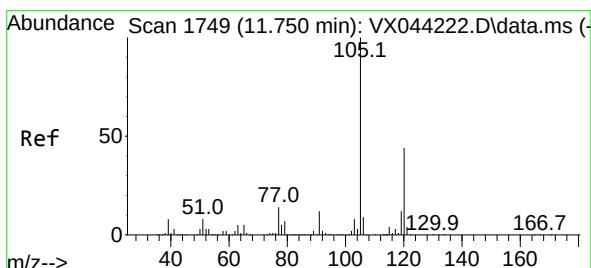
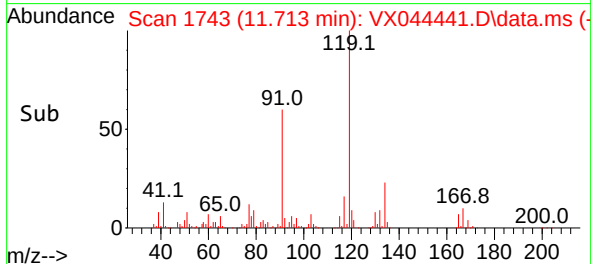
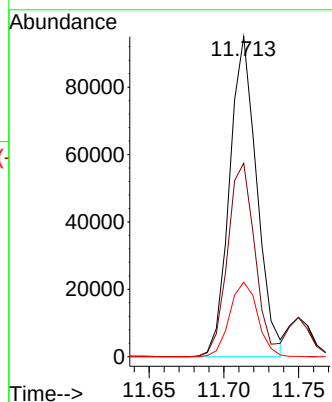
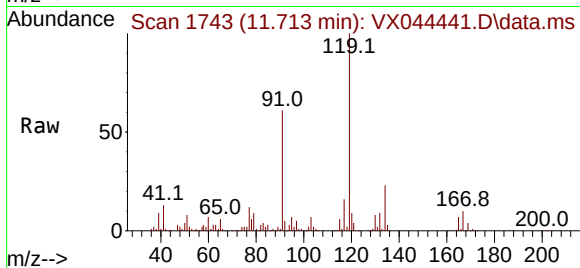




#83
tert-Butylbenzene
Concen: 19.827 ug/l
RT: 11.713 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

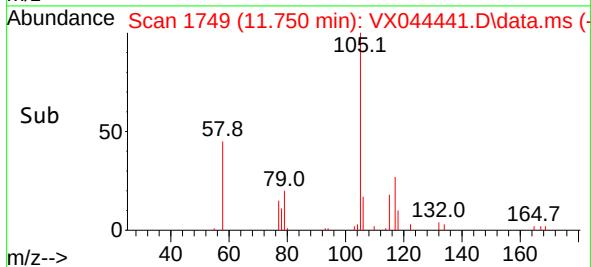
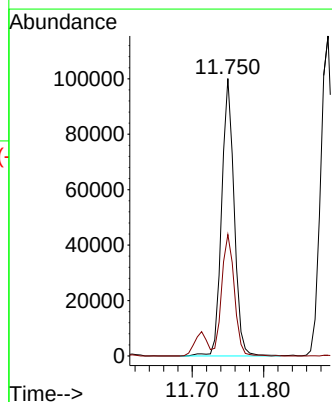
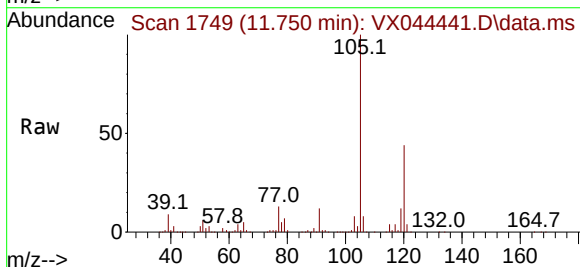
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

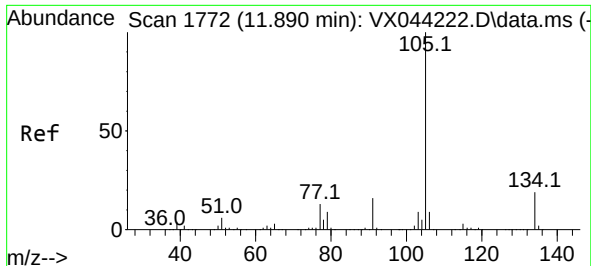
Tgt Ion:119 Resp: 120518
Ion Ratio Lower Upper
119 100
91 61.1 30.9 92.5
134 23.9 11.5 34.4



#84
1,2,4-Trimethylbenzene
Concen: 20.085 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:105 Resp: 121322
Ion Ratio Lower Upper
105 100
120 44.6 21.7 65.1

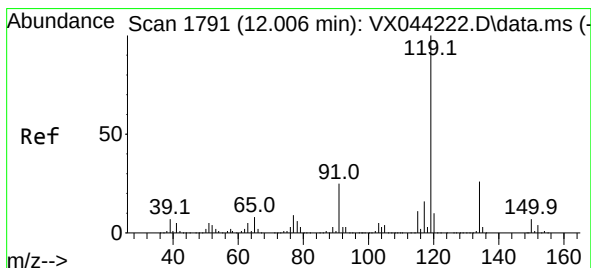
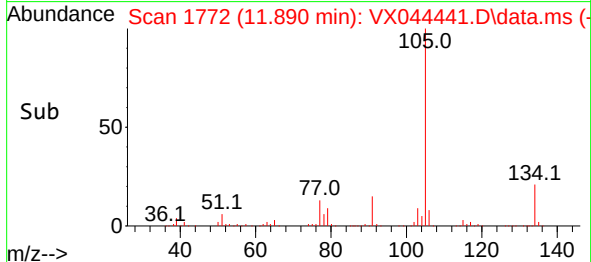
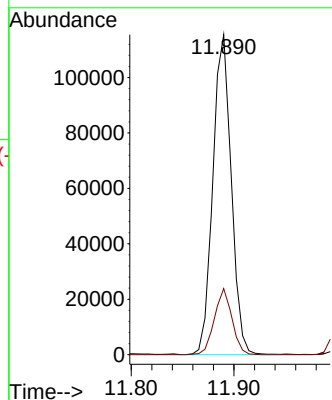
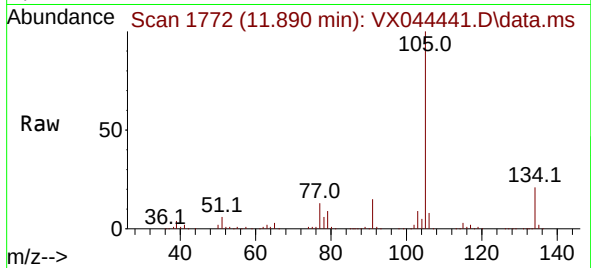




#85
sec-Butylbenzene
Concen: 19.477 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

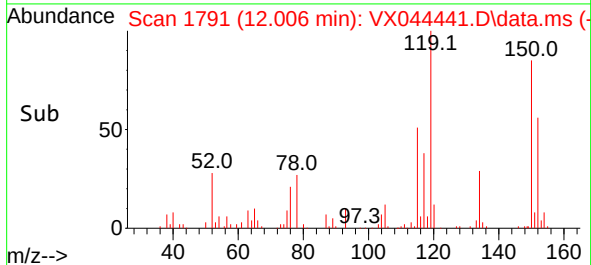
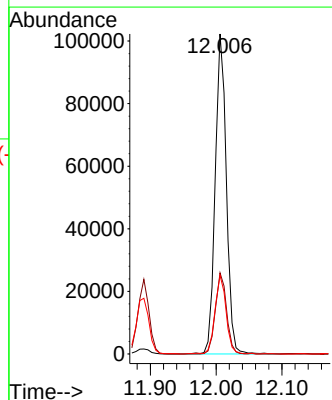
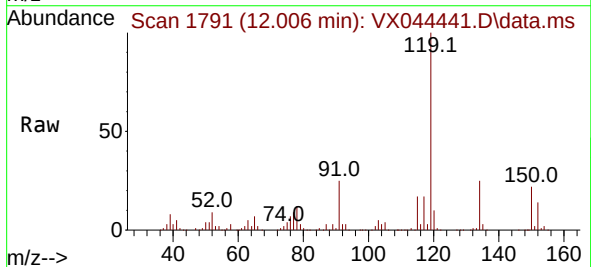
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

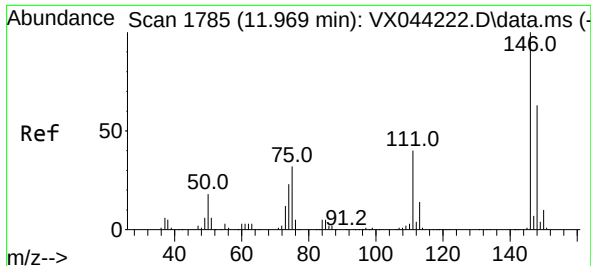
Tgt Ion:105 Resp: 143732
Ion Ratio Lower Upper
105 100
134 19.7 9.8 29.4



#86
p-Isopropyltoluene
Concen: 19.596 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:119 Resp: 120356
Ion Ratio Lower Upper
119 100
134 25.5 12.8 38.4
91 24.7 13.0 39.0





#87

1,3-Dichlorobenzene

Concen: 20.058 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

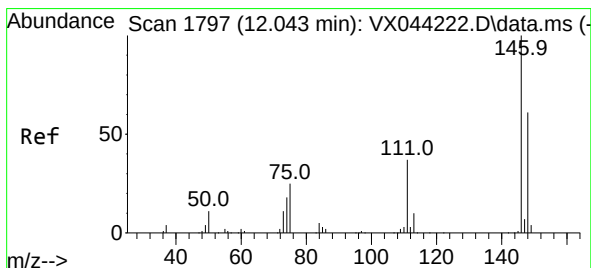
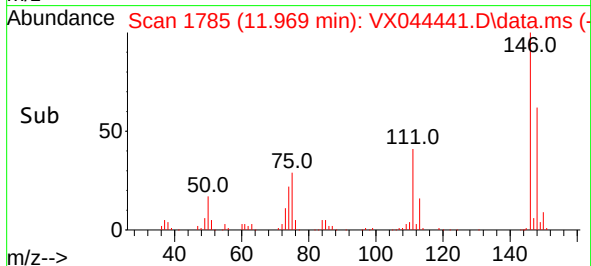
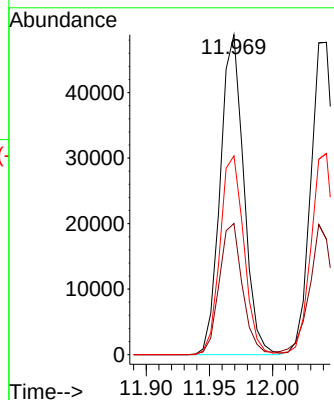
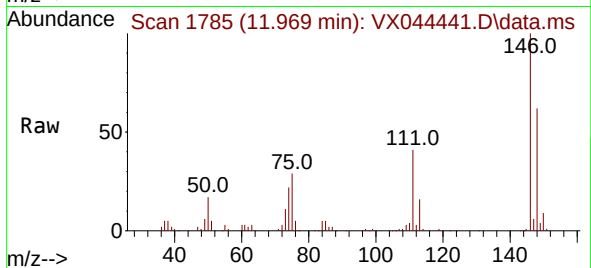
Tgt Ion:146 Resp: 63016

Ion Ratio Lower Upper

146 100

111 40.6 21.4 64.2

148 63.0 31.7 95.1



#88

1,4-Dichlorobenzene

Concen: 19.954 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

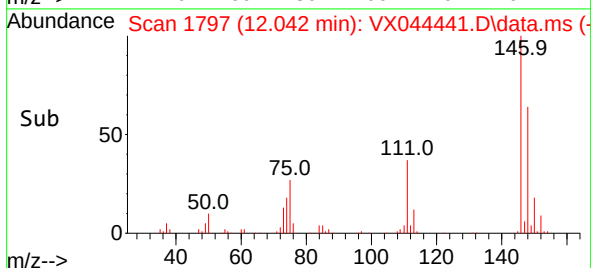
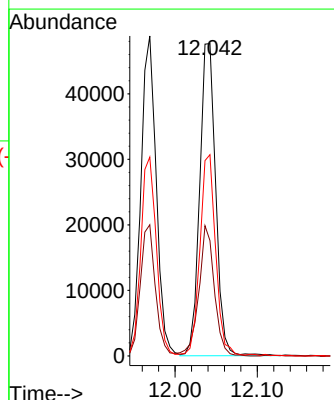
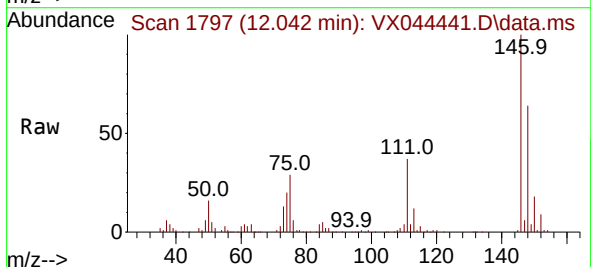
Tgt Ion:146 Resp: 64444

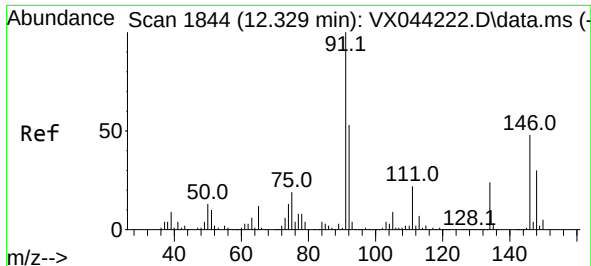
Ion Ratio Lower Upper

146 100

111 40.5 21.0 63.0

148 63.0 32.3 96.8





#89

n-Butylbenzene

Concen: 18.279 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX044441.D

Acq: 20 Dec 2024 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBS01

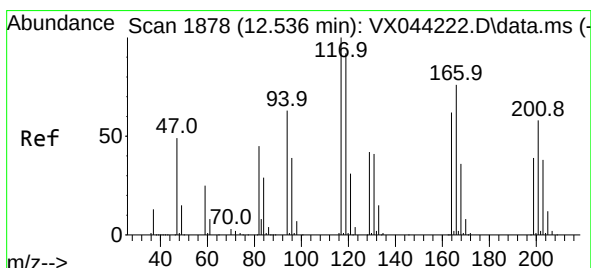
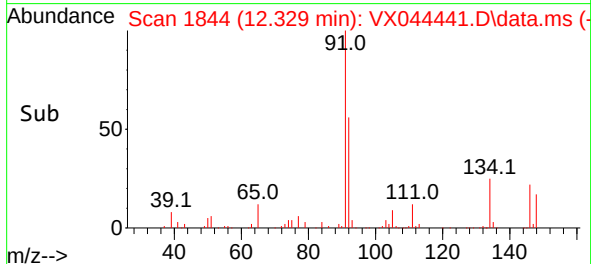
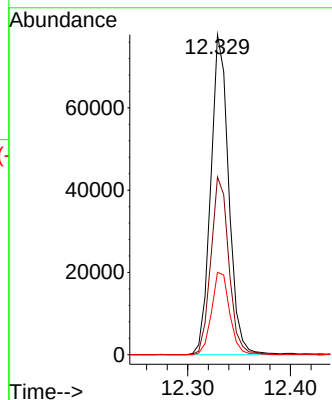
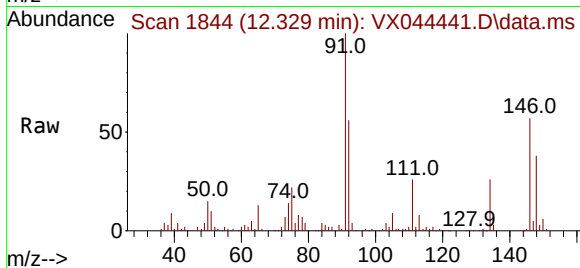
Tgt Ion: 91 Resp: 94402

Ion Ratio Lower Upper

91 100

92 55.5 26.6 79.7

134 25.9 12.6 37.8



#90

Hexachloroethane

Concen: 18.640 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX044441.D

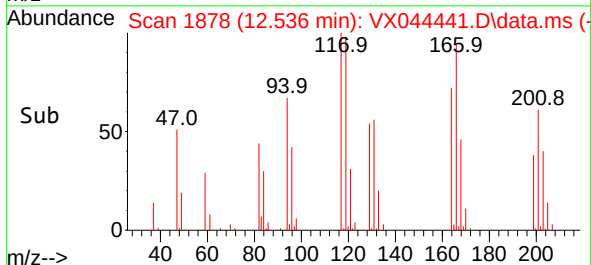
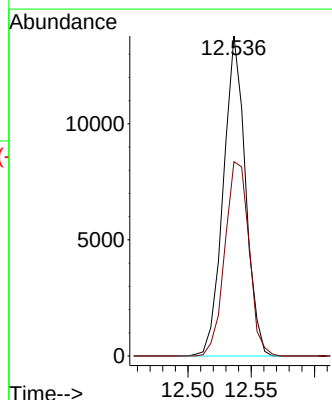
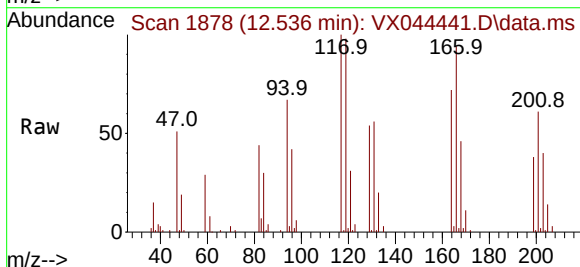
Acq: 20 Dec 2024 10:46

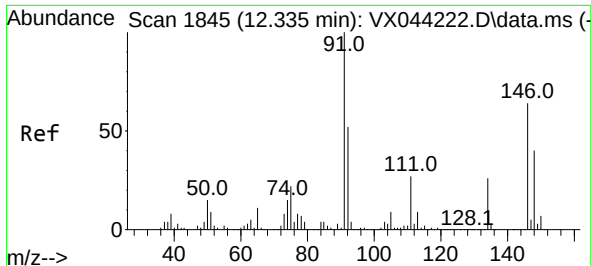
Tgt Ion: 117 Resp: 16712

Ion Ratio Lower Upper

117 100

201 66.5 31.4 94.2

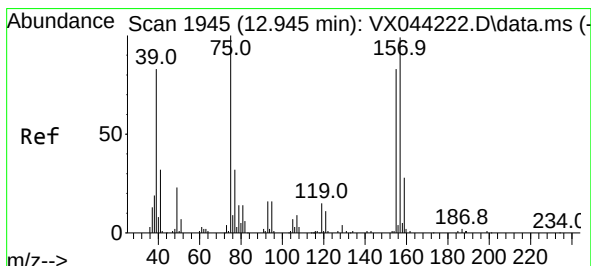
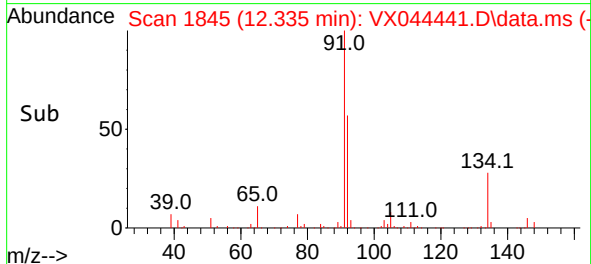
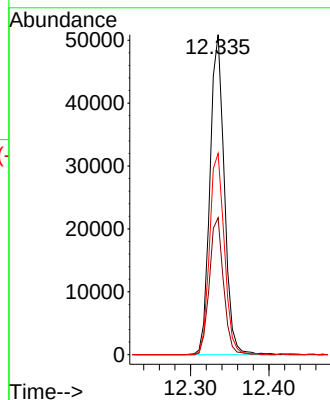
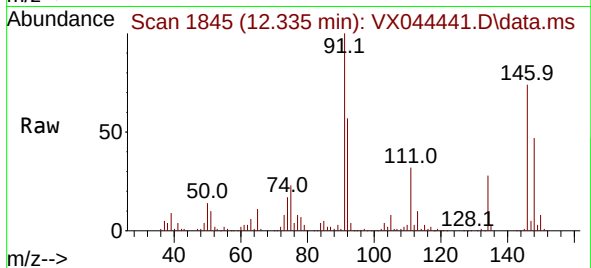




#91
1,2-Dichlorobenzene
Concen: 19.798 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

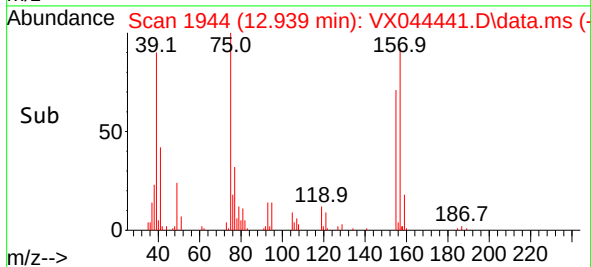
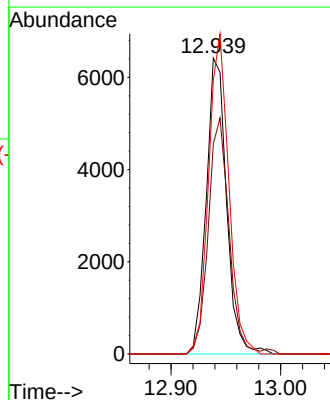
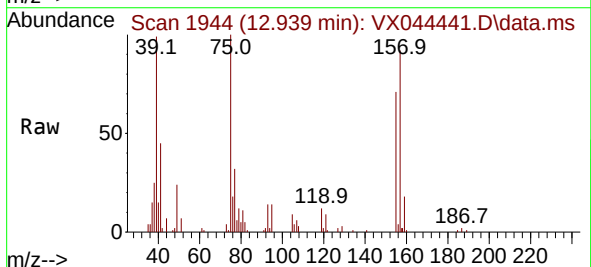
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

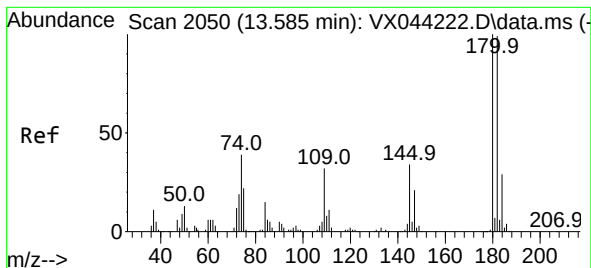
Tgt Ion:146 Resp: 64584
Ion Ratio Lower Upper
146 100
111 42.2 21.4 64.3
148 64.8 31.6 95.0



#92
1,2-Dibromo-3-Chloropropane
Concen: 16.523 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 8263
Ion Ratio Lower Upper
75 100
155 81.6 38.1 114.3
157 107.5 47.2 141.6

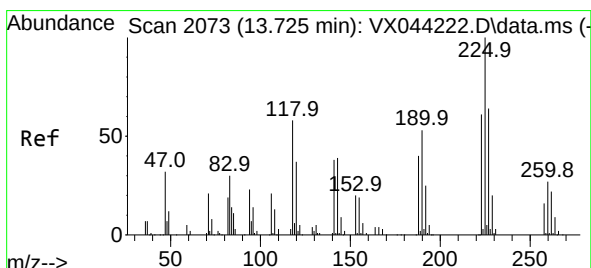
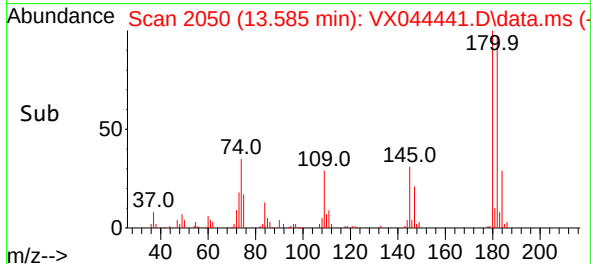
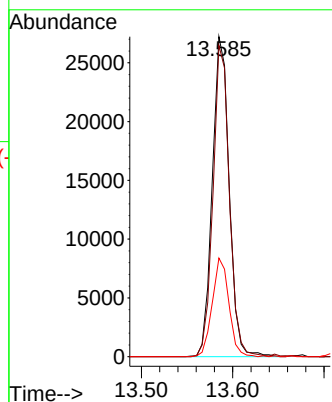
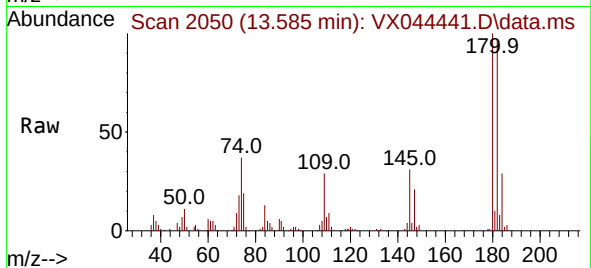




#93
1,2,4-Trichlorobenzene
Concen: 19.470 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

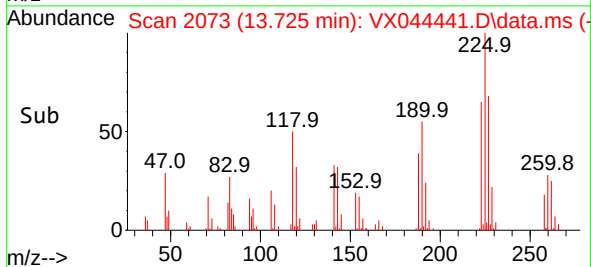
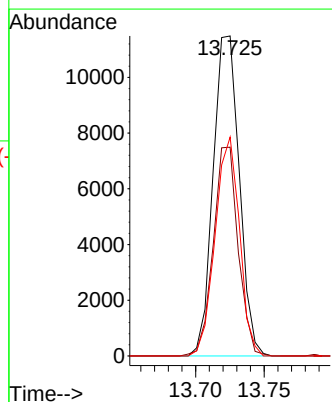
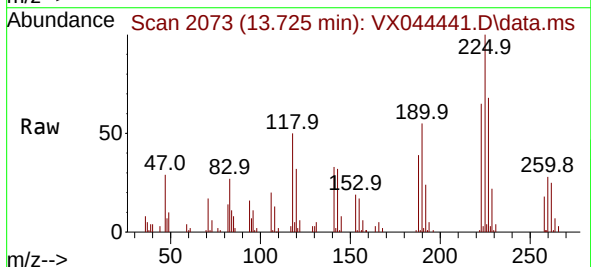
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

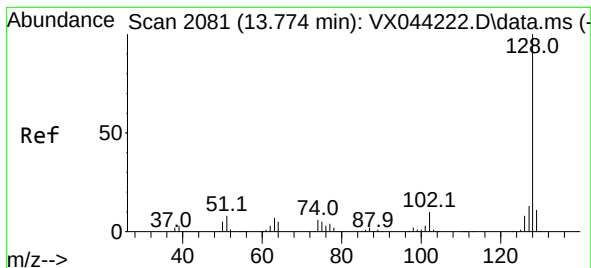
Tgt Ion:180 Resp: 34820
Ion Ratio Lower Upper
180 100
182 94.3 48.0 144.2
145 30.4 16.6 49.7



#94
Hexachlorobutadiene
Concen: 21.174 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:225 Resp: 15232
Ion Ratio Lower Upper
225 100
223 62.0 30.8 92.4
227 63.6 32.1 96.3

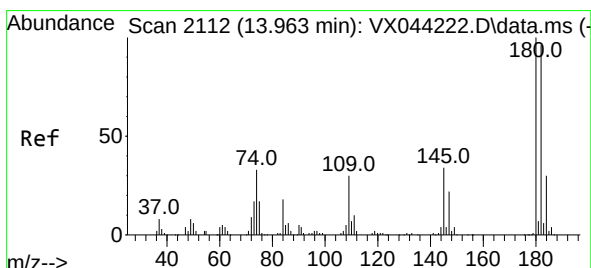
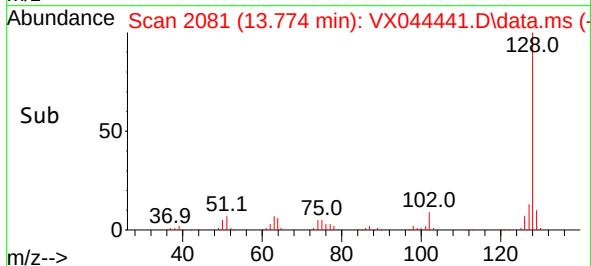
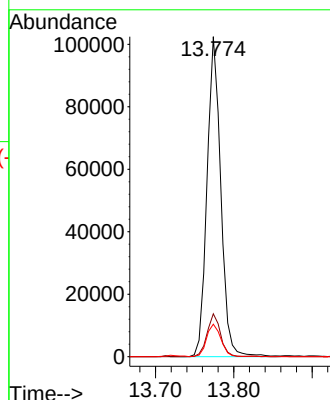
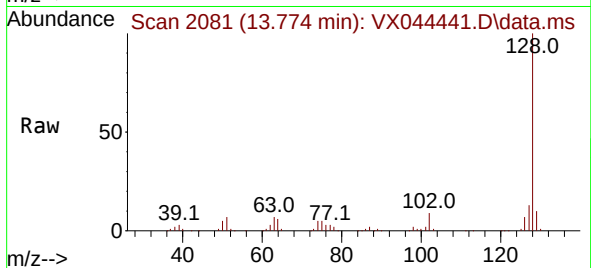




#95
Naphthalene
Concen: 17.830 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

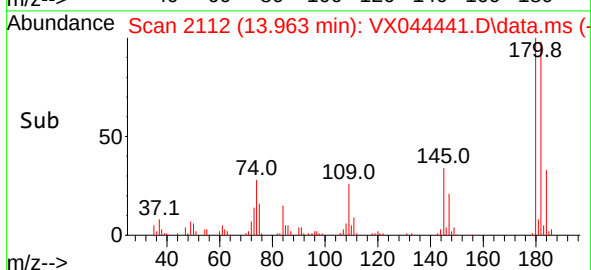
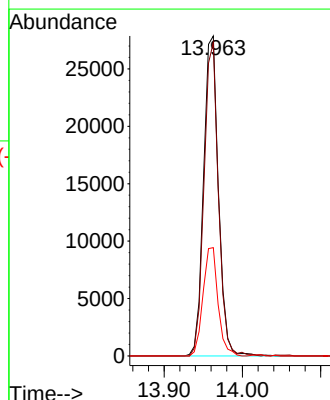
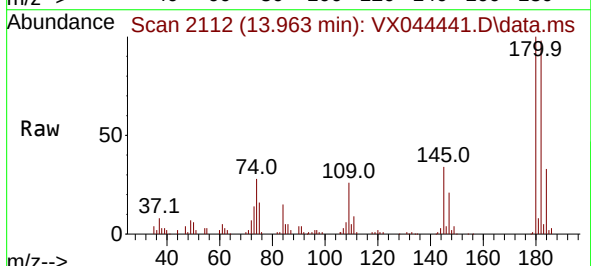
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:128 Resp: 124472
Ion Ratio Lower Upper
128 100
127 13.0 10.5 15.7
129 10.7 9.0 13.4



#96
1,2,3-Trichlorobenzene
Concen: 19.378 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:180 Resp: 36757
Ion Ratio Lower Upper
180 100
182 94.5 48.0 144.0
145 34.2 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
 Data File : VX044442.D
 Acq On : 20 Dec 2024 11:16
 Operator : JC/MD
 Sample : VX1220WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1220WBSD01

Quant Time: Dec 20 22:22:35 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:28:14 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	138719	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.757	114	231232	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	202087	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	96082	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	106058	43.606	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	87.220%
35) Dibromofluoromethane	5.385	113	78890	49.260	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.520%
50) Toluene-d8	8.647	98	269677	49.913	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.820%
62) 4-Bromofluorobenzene	11.079	95	91791	48.620	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	97.240%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	39072	18.216	ug/l	98
3) Chloromethane	1.294	50	38429	18.735	ug/l	99
4) Vinyl Chloride	1.374	62	38657	18.090	ug/l	99
5) Bromomethane	1.593	94	27434	18.096	ug/l	95
6) Chloroethane	1.666	64	26989	20.283	ug/l	98
7) Trichlorofluoromethane	1.867	101	66329	15.855	ug/l	97
8) Diethyl Ether	2.130	74	24733	17.320	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	31056	18.346	ug/l	94
10) Methyl Iodide	2.441	142	42456	19.029	ug/l	96
11) Tert butyl alcohol	2.989	59	28417	82.901	ug/l	96
12) 1,1-Dichloroethene	2.306	96	28901	18.587	ug/l	95
13) Acrolein	2.239	56	42729	86.114	ug/l	95
14) Allyl chloride	2.654	41	46350	17.897	ug/l	97
15) Acrylonitrile	3.062	53	90796	95.622	ug/l	97
16) Acetone	2.386	43	78457	79.124	ug/l	96
17) Carbon Disulfide	2.501	76	49587	16.777	ug/l	99
18) Methyl Acetate	2.703	43	46799	18.305	ug/l	96
19) Methyl tert-butyl Ether	3.117	73	109105	17.981	ug/l	98
20) Methylene Chloride	2.782	84	35395	19.005	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	29631	17.931	ug/l	93
22) Diisopropyl ether	3.757	45	106036	18.182	ug/l	87
23) Vinyl Acetate	3.715	43	452921	95.526	ug/l	100
24) 1,1-Dichloroethane	3.599	63	59870	18.417	ug/l	100
25) 2-Butanone	4.562	43	124774	88.514	ug/l	99
26) 2,2-Dichloropropane	4.471	77	47237	17.886	ug/l	96
27) cis-1,2-Dichloroethene	4.483	96	38668	18.425	ug/l	96
28) Bromochloromethane	4.891	49	25309	15.877	ug/l	98
29) Tetrahydrofuran	5.007	42	79911	88.318	ug/l	98
30) Chloroform	5.086	83	66814	18.293	ug/l	94
31) Cyclohexane	5.452	56	46401	17.676	ug/l	90
32) 1,1,1-Trichloroethane	5.379	97	52904	17.450	ug/l	98
36) 1,1-Dichloropropene	5.684	75	39588	19.123	ug/l	98
37) Ethyl Acetate	4.715	43	50767	19.839	ug/l	99
38) Carbon Tetrachloride	5.666	117	42171	18.922	ug/l	98
39) Methylcyclohexane	7.373	83	48538	19.613	ug/l	97
40) Benzene	6.031	78	130546	20.770	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
 Data File : VX044442.D
 Acq On : 20 Dec 2024 11:16
 Operator : JC/MD
 Sample : VX1220WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1220WBSD01

Quant Time: Dec 20 22:22:35 2024
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 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:28:14 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	27115	19.955	ug/l	97
42) 1,2-Dichloroethane	6.080	62	51173	19.765	ug/l	97
43) Isopropyl Acetate	6.336	43	76752	19.190	ug/l	98
44) Trichloroethene	7.117	130	31887	20.344	ug/l	89
45) 1,2-Dichloropropane	7.427	63	32584	20.292	ug/l	97
46) Dibromomethane	7.574	93	25878	20.773	ug/l	94
47) Bromodichloromethane	7.818	83	42288	19.655	ug/l	98
48) Methyl methacrylate	7.690	41	36464	18.781	ug/l	98
49) 1,4-Dioxane	7.665	88	9497	295.032	ug/l #	68
51) 4-Methyl-2-Pentanone	8.574	43	254570	98.990	ug/l	100
52) Toluene	8.714	92	78578	19.908	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	41297	19.092	ug/l	95
54) cis-1,3-Dichloropropene	8.366	75	47240	20.165	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	33879	21.606	ug/l	97
56) Ethyl methacrylate	9.116	69	49755	20.100	ug/l	97
57) 1,3-Dichloropropane	9.305	76	57969	21.239	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	114719	91.883	ug/l	99
59) 2-Hexanone	9.427	43	180865	97.164	ug/l	98
60) Dibromochloromethane	9.519	129	29976	19.339	ug/l	99
61) 1,2-Dibromoethane	9.604	107	34036	21.325	ug/l	98
64) Tetrachloroethene	9.269	164	27454	20.468	ug/l	96
65) Chlorobenzene	10.073	112	87347	20.171	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	29694	21.337	ug/l	98
67) Ethyl Benzene	10.189	91	146051	19.520	ug/l	98
68) m/p-Xylenes	10.299	106	113167	41.220	ug/l	93
69) o-Xylene	10.640	106	56176	20.223	ug/l	94
70) Styrene	10.652	104	91004	20.436	ug/l	96
71) Bromoform	10.799	173	17644	20.140	ug/l #	98
73) Isopropylbenzene	10.963	105	138041	18.767	ug/l	99
74) N-amyl acetate	10.841	43	60849	17.900	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.213	83	50373	19.717	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	50904	23.728	ug/l	87
77) Bromobenzene	11.195	156	35713	20.022	ug/l	95
78) n-propylbenzene	11.305	91	155505	19.128	ug/l	98
79) 2-Chlorotoluene	11.360	91	98404	18.716	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	118602	19.444	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	11391	19.096	ug/l	91
82) 4-Chlorotoluene	11.451	91	110656	19.006	ug/l	99
83) tert-Butylbenzene	11.713	119	114519	18.997	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	118782	19.828	ug/l	98
85) sec-Butylbenzene	11.890	105	139575	19.072	ug/l	99
86) p-Isopropyltoluene	12.006	119	118332	19.427	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	62799	20.156	ug/l	98
88) 1,4-Dichlorobenzene	12.042	146	63145	19.716	ug/l	99
89) n-Butylbenzene	12.329	91	94807	18.510	ug/l	98
90) Hexachloroethane	12.536	117	16094	18.101	ug/l	96
91) 1,2-Dichlorobenzene	12.335	146	64853	20.047	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7805	15.738	ug/l	84
93) 1,2,4-Trichlorobenzene	13.585	180	35185	19.838	ug/l	99
94) Hexachlorobutadiene	13.725	225	14480	20.297	ug/l	96
95) Naphthalene	13.774	128	130346	18.828	ug/l	98
96) 1,2,3-Trichlorobenzene	13.963	180	36727	19.524	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044442.D
Acq On : 20 Dec 2024 11:16
Operator : JC/MD
Sample : VX1220WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

Quant Time: Dec 20 22:22:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

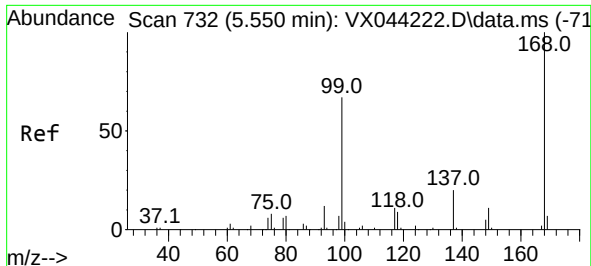
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
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- 14
- 15
- 16
- 17

- 1
- 2
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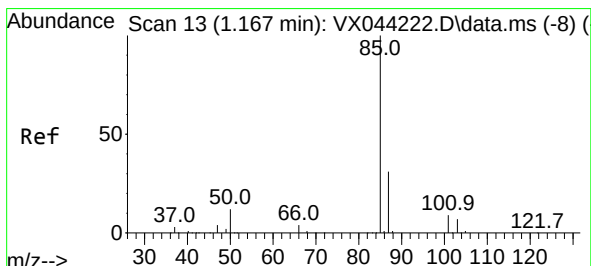
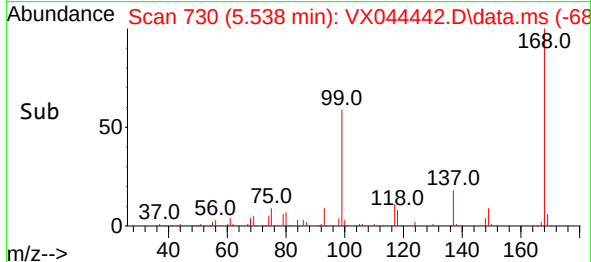
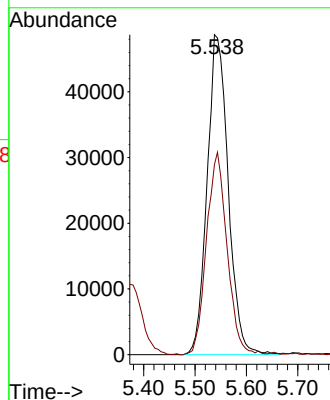
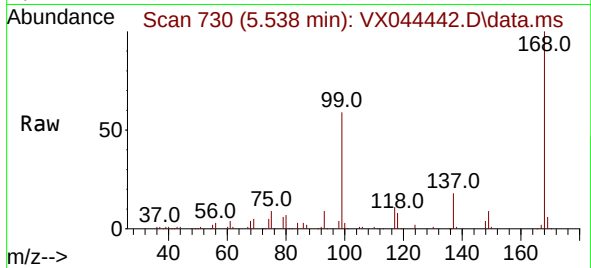




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

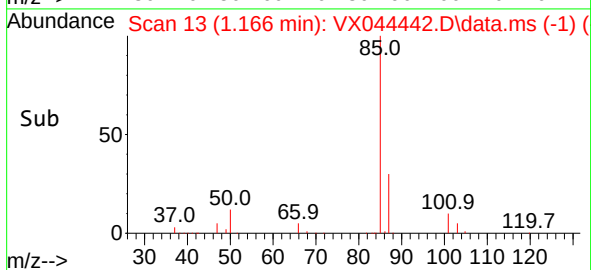
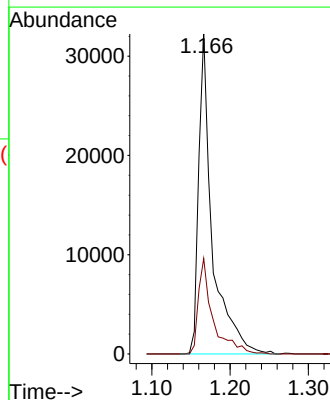
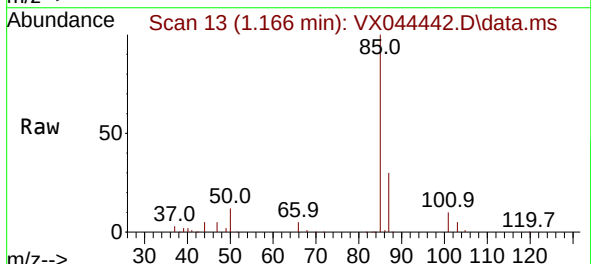
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

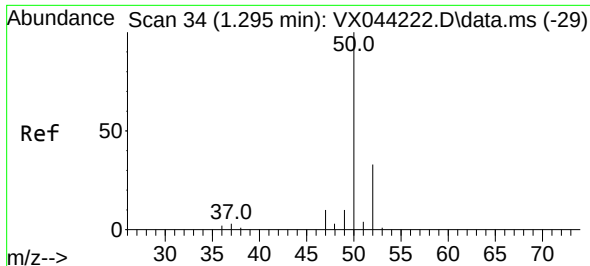
Tgt Ion:168 Resp: 138719
Ion Ratio Lower Upper
168 100
99 59.4 53.4 80.0



#2
Dichlorodifluoromethane
Concen: 18.216 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 85 Resp: 39072
Ion Ratio Lower Upper
85 100
87 29.9 15.4 46.4

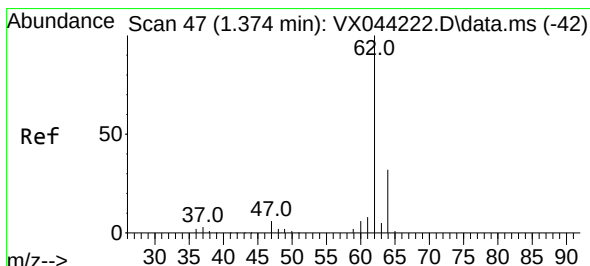
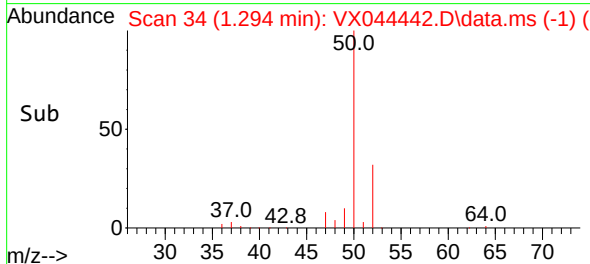
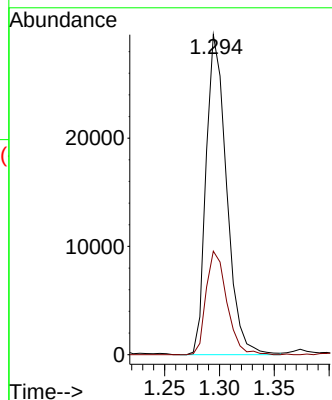
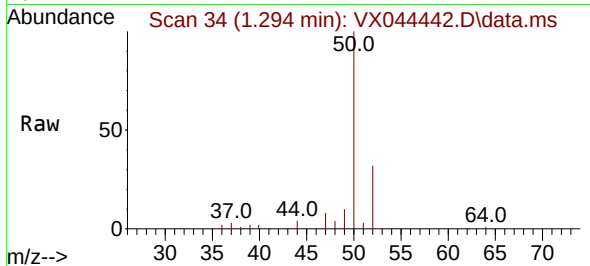




#3
Chloromethane
Concen: 18.735 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

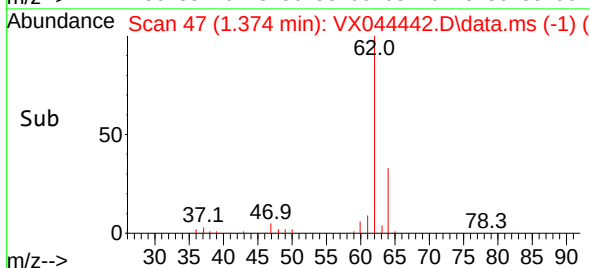
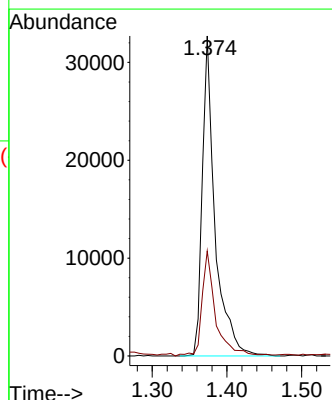
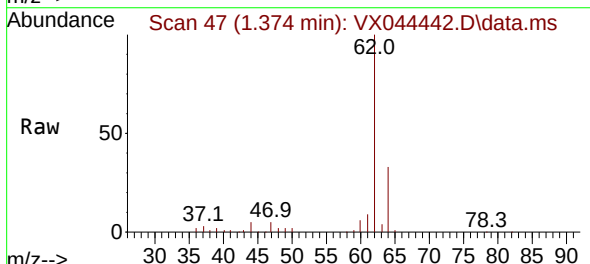
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ClientSampleId :
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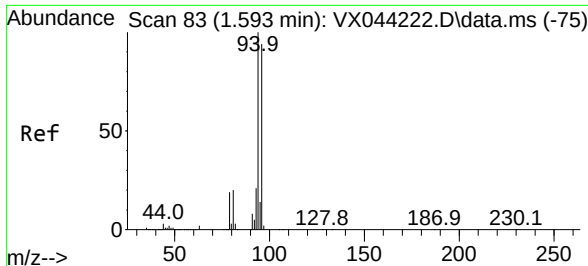
Tgt Ion: 50 Resp: 38429
Ion Ratio Lower Upper
50 100
52 32.3 26.5 39.7



#4
Vinyl Chloride
Concen: 18.090 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 62 Resp: 38657
Ion Ratio Lower Upper
62 100
64 32.4 25.7 38.5

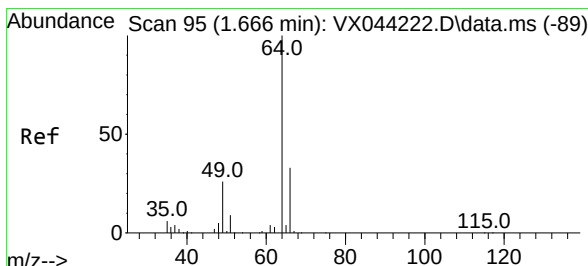
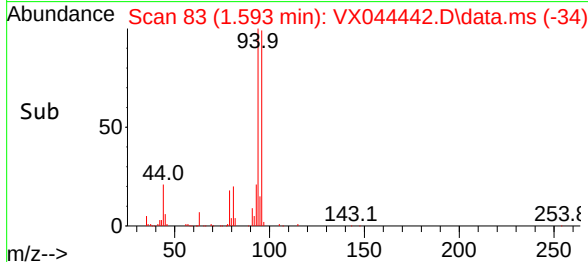
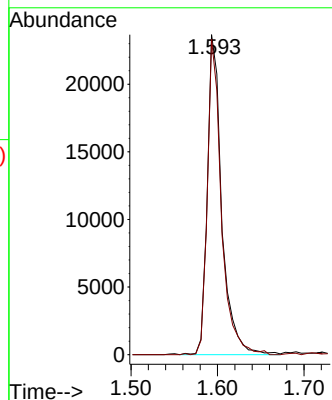
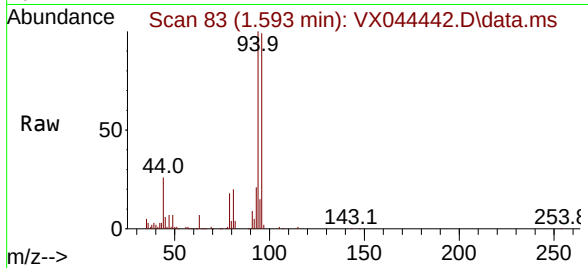




#5
Bromomethane
Concen: 18.096 ug/l
RT: 1.593 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

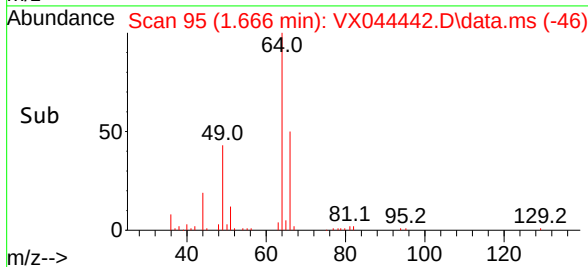
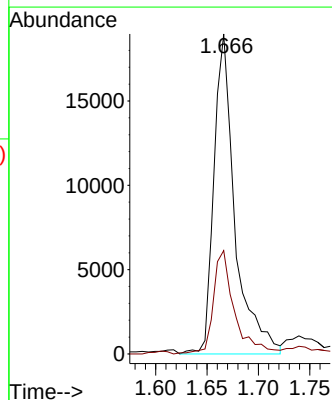
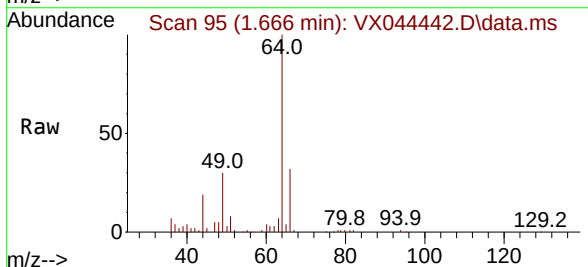
Instrument :
MSVOA_X
ClientSampleId :
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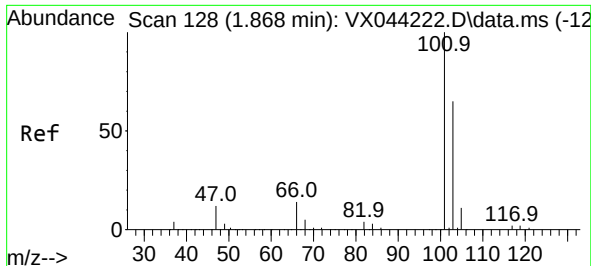
Tgt Ion: 94 Resp: 27434
Ion Ratio Lower Upper
94 100
96 98.6 74.9 112.3



#6
Chloroethane
Concen: 20.283 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 64 Resp: 26989
Ion Ratio Lower Upper
64 100
66 31.9 26.6 39.8

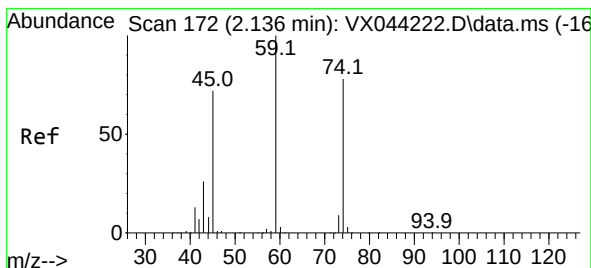
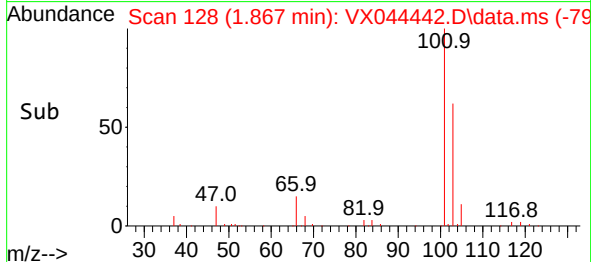
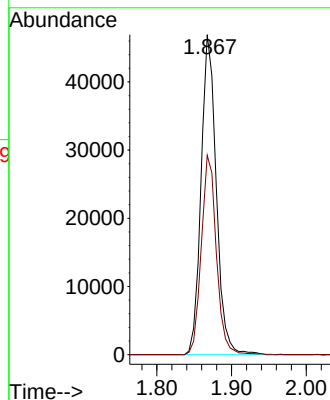
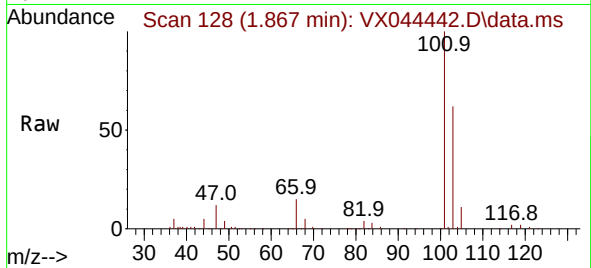




#7
Trichlorofluoromethane
Concen: 15.855 ug/l
RT: 1.867 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

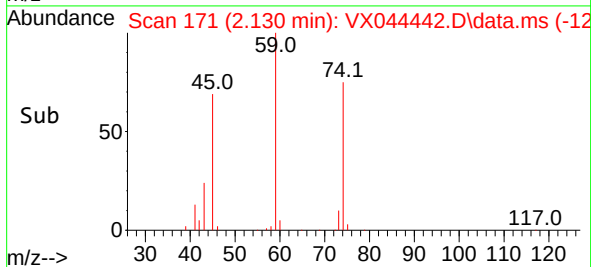
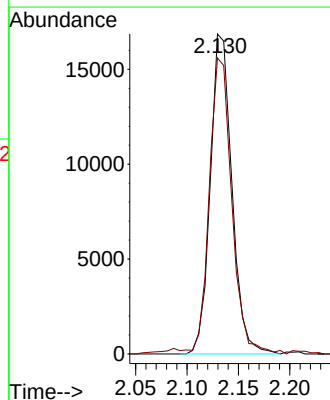
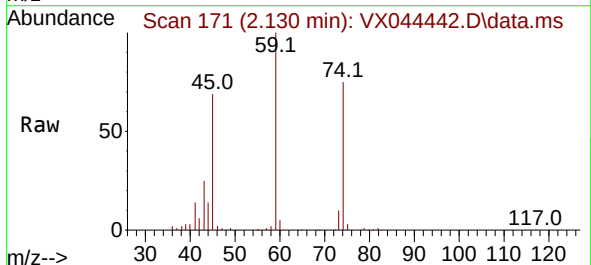
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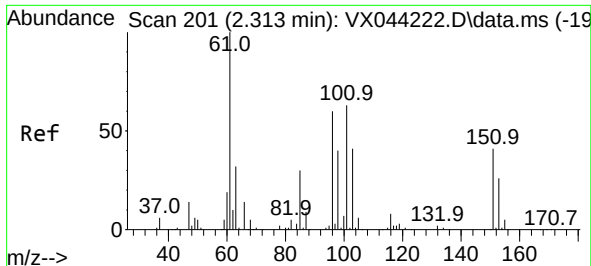
Tgt Ion:101 Resp: 66329
Ion Ratio Lower Upper
101 100
103 62.4 51.8 77.8



#8
Diethyl Ether
Concen: 17.320 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 74 Resp: 24733
Ion Ratio Lower Upper
74 100
45 96.1 48.4 145.0

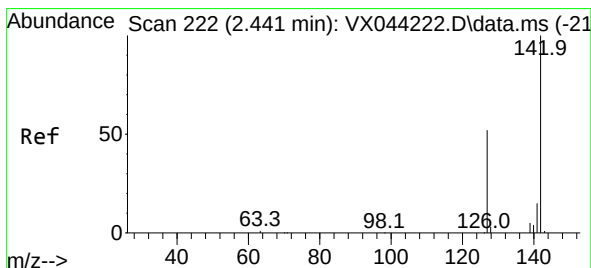
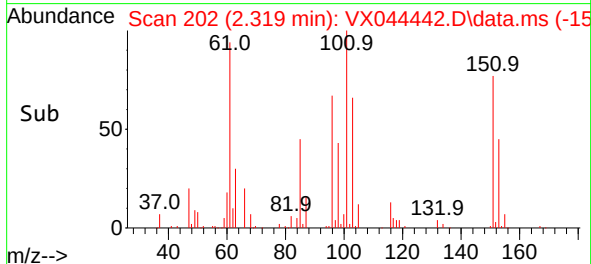
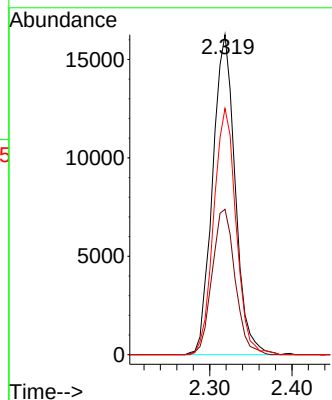
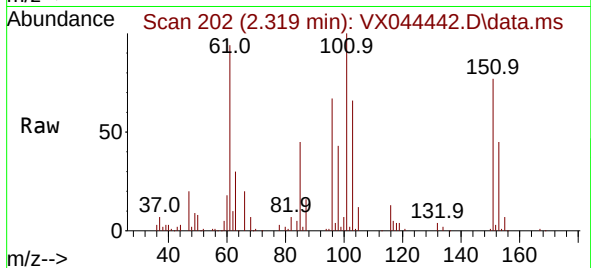




#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.346 ug/l
RT: 2.319 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

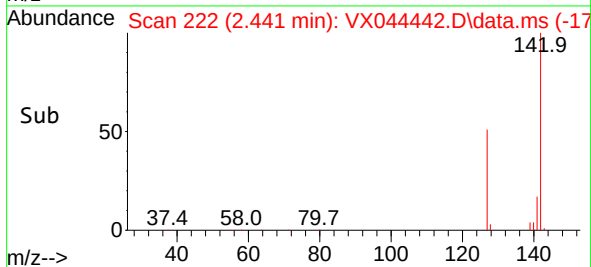
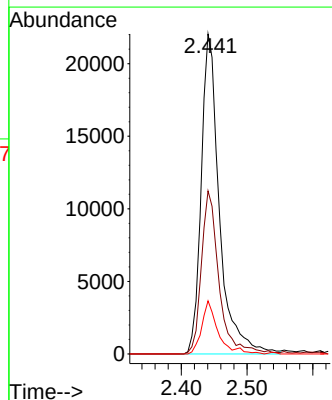
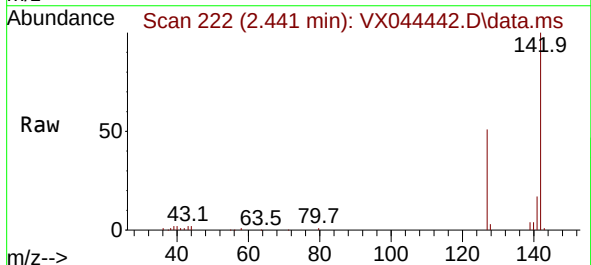
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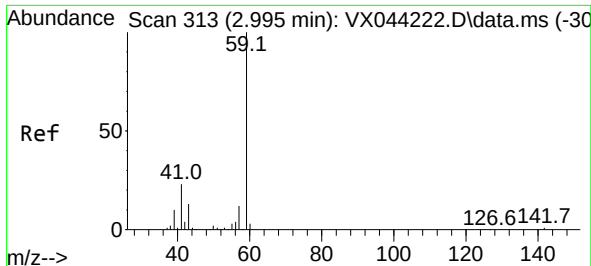
Tgt Ion:101 Resp: 31056
Ion Ratio Lower Upper
101 100
85 46.3 38.5 57.7
151 76.3 55.8 83.6



#10
Methyl Iodide
Concen: 19.029 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion:142 Resp: 42456
Ion Ratio Lower Upper
142 100
127 49.2 41.8 62.8
141 14.8 11.5 17.3

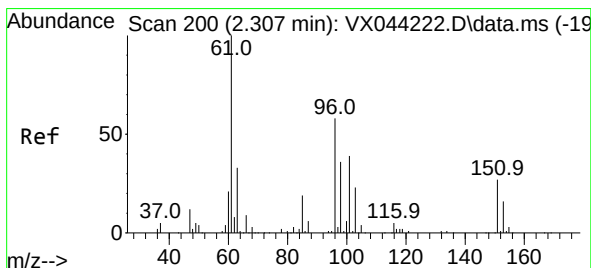
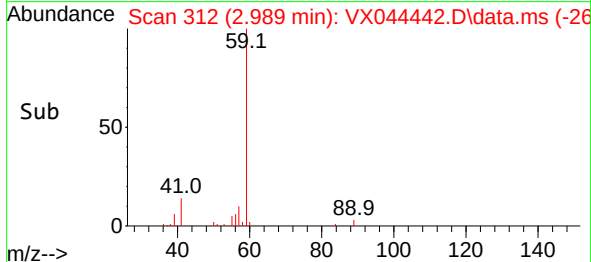
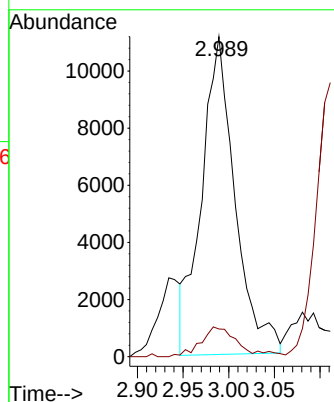
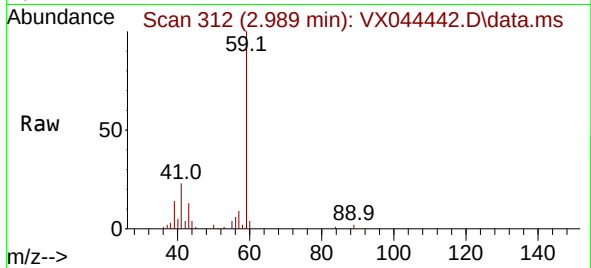




#11
Tert butyl alcohol
Concen: 82.901 ug/l
RT: 2.989 min Scan# 313
Delta R.T. -0.006 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

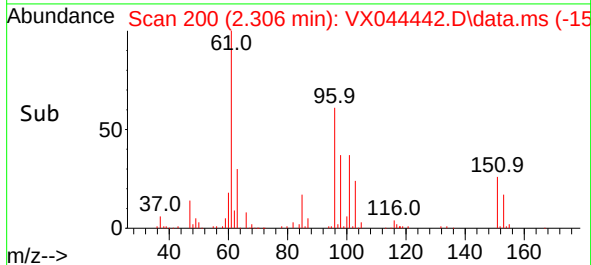
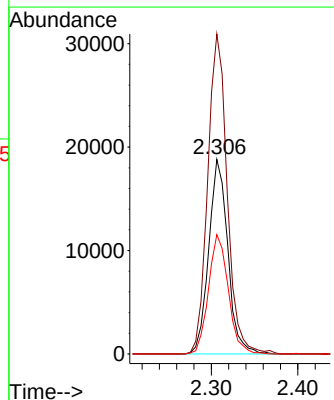
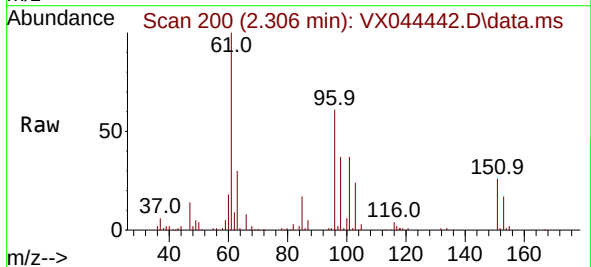
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

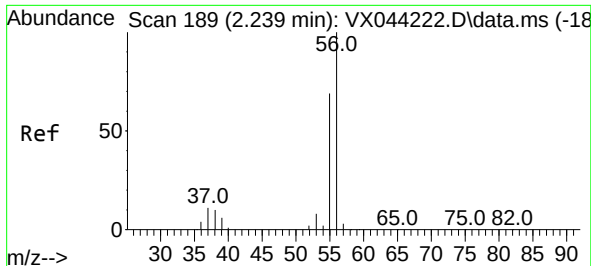
Tgt Ion: 59 Resp: 28417
Ion Ratio Lower Upper
59 100
57 9.4 8.8 13.2



#12
1,1-Dichloroethene
Concen: 18.587 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 96 Resp: 28901
Ion Ratio Lower Upper
96 100
61 164.5 138.0 207.0
98 61.3 50.0 75.0

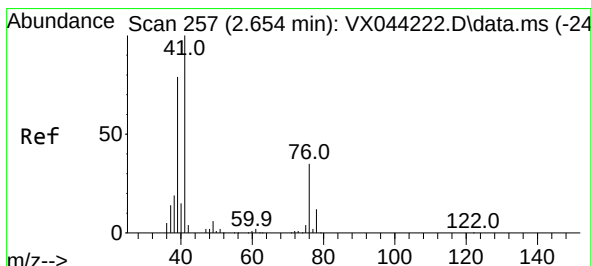
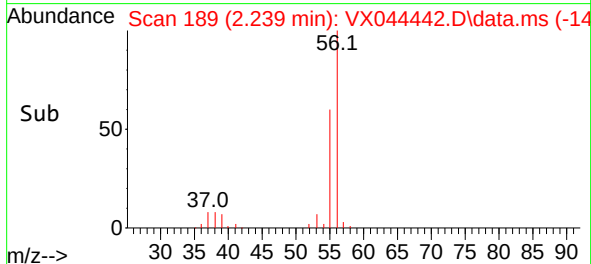
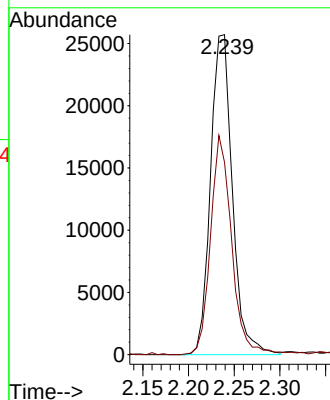
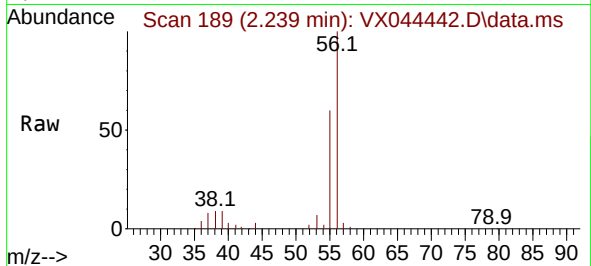




#13
Acrolein
Concen: 86.114 ug/l
RT: 2.239 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

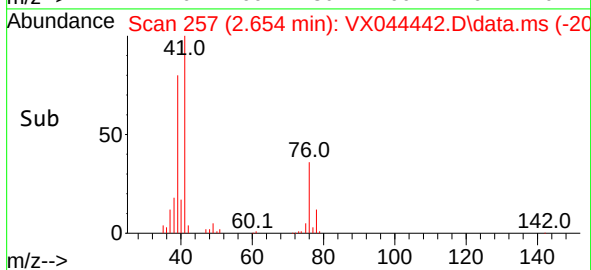
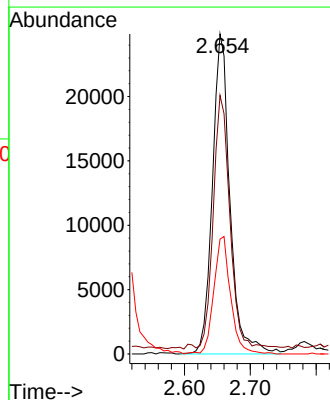
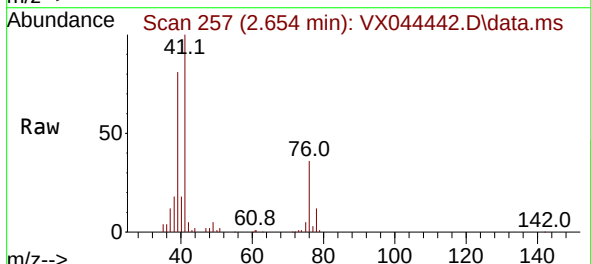
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

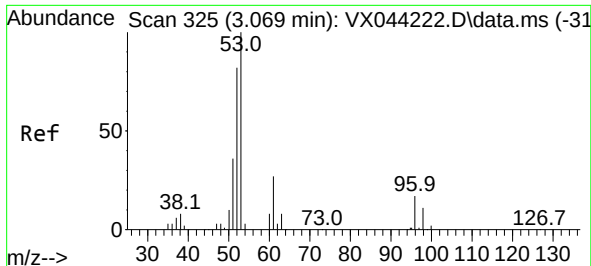
Tgt Ion: 56 Resp: 42729
Ion Ratio Lower Upper
56 100
55 66.6 56.6 84.8



#14
Allyl chloride
Concen: 17.897 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 41 Resp: 46350
Ion Ratio Lower Upper
41 100
39 74.0 61.9 92.9
76 35.2 27.4 41.2

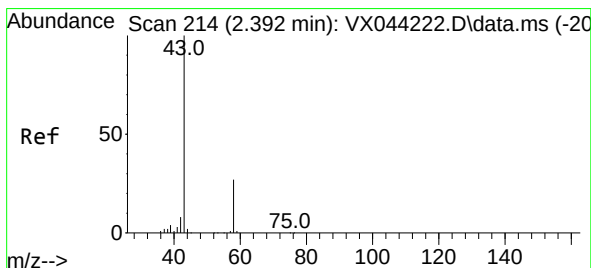
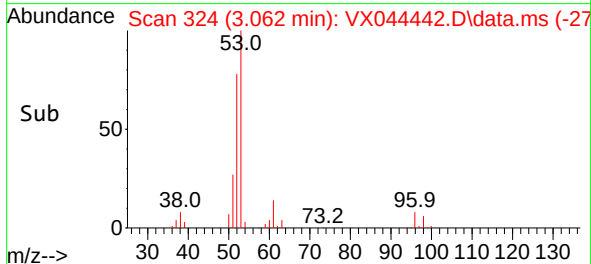
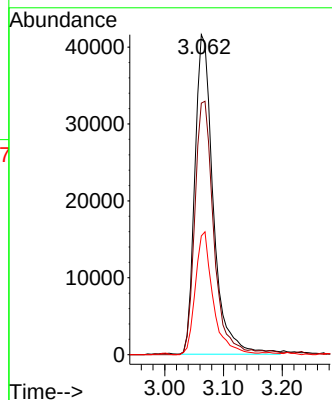
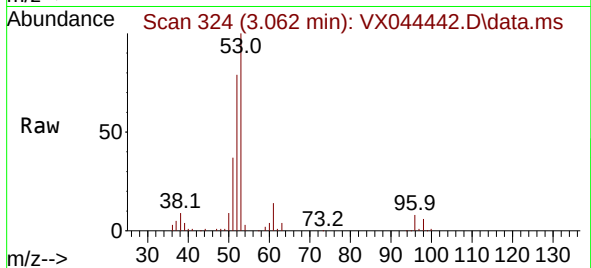




#15
Acrylonitrile
Concen: 95.622 ug/l
RT: 3.062 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

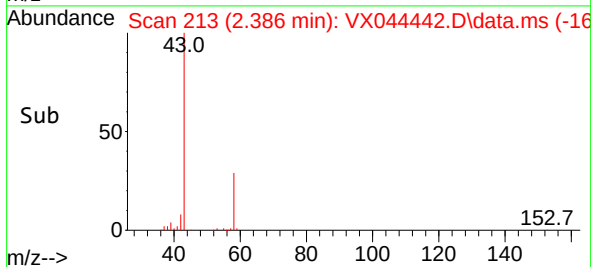
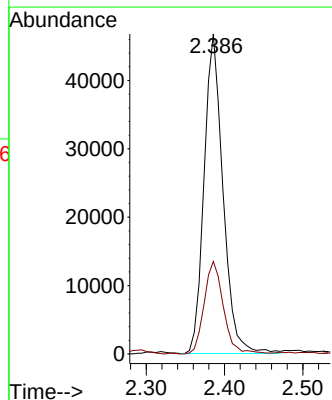
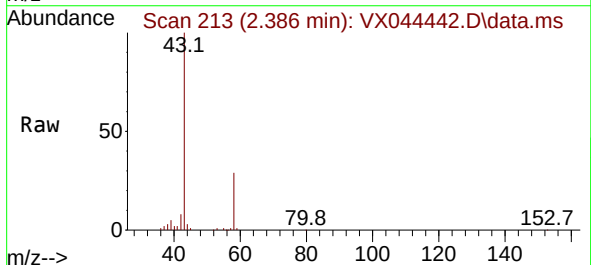
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

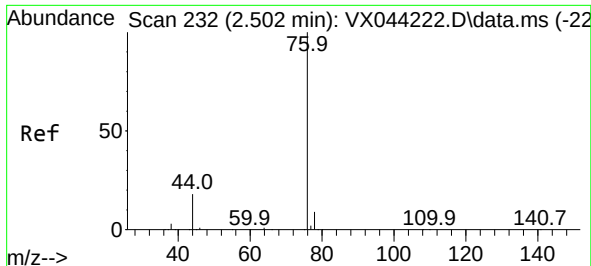
Tgt Ion: 53 Resp: 90796
Ion Ratio Lower Upper
53 100
52 80.9 67.4 101.0
51 37.2 30.3 45.5



#16
Acetone
Concen: 79.124 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 43 Resp: 78457
Ion Ratio Lower Upper
43 100
58 29.0 21.6 32.4

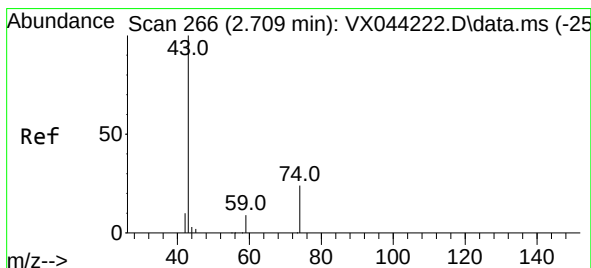
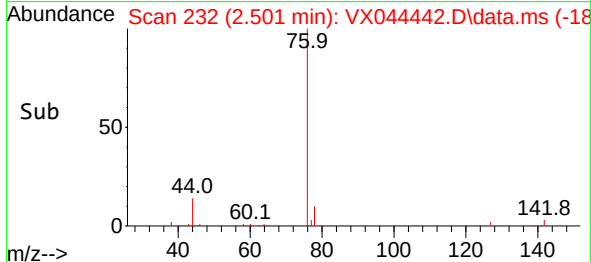
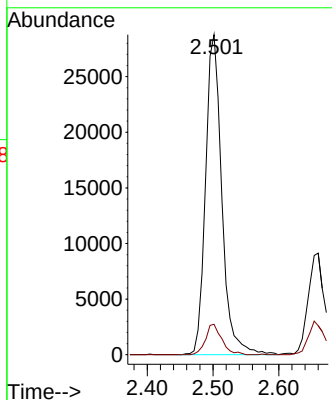
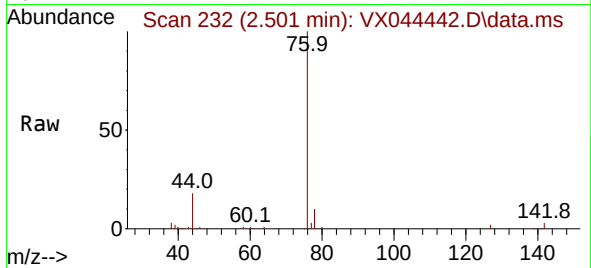




#17
Carbon Disulfide
Concen: 16.777 ug/l
RT: 2.501 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

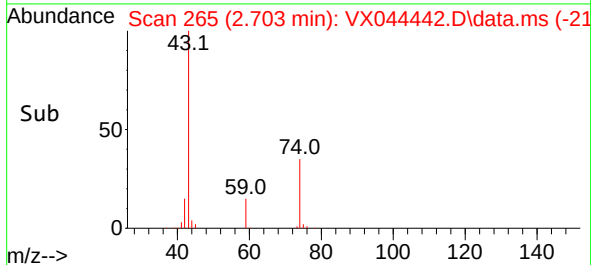
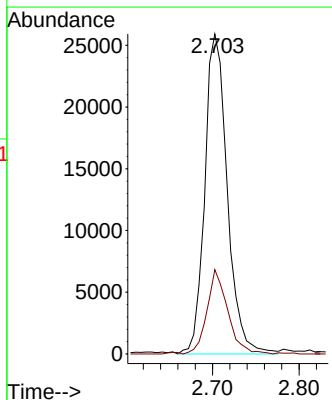
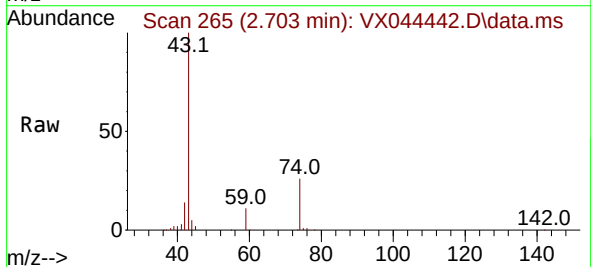
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

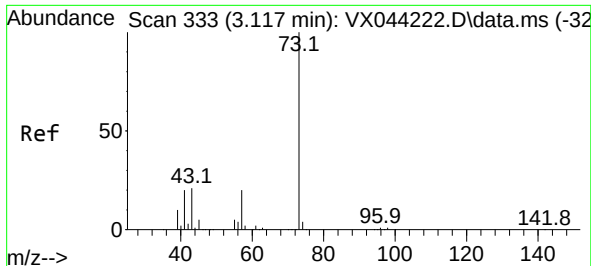
Tgt Ion: 76 Resp: 49587
Ion Ratio Lower Upper
76 100
78 9.5 7.4 11.0



#18
Methyl Acetate
Concen: 18.305 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 43 Resp: 46799
Ion Ratio Lower Upper
43 100
74 24.2 17.7 26.5





#19

Methyl tert-butyl Ether

Concen: 17.981 ug/l

RT: 3.117 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

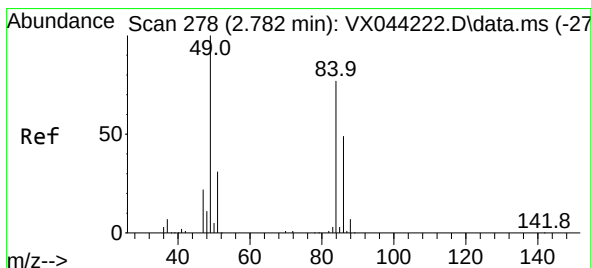
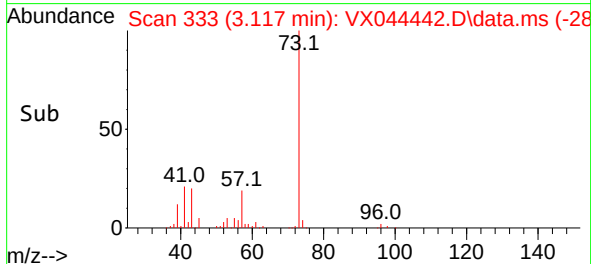
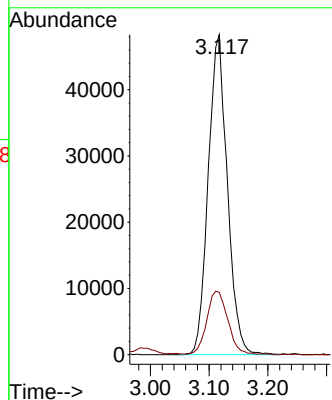
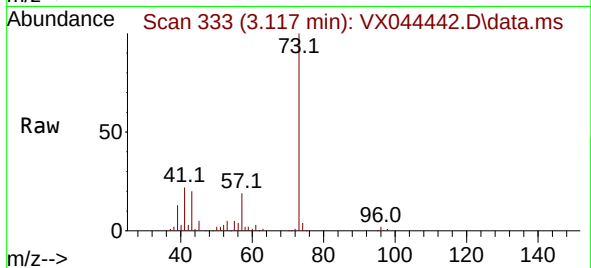
VX1220WBSD01

Tgt Ion: 73 Resp: 109105

Ion Ratio Lower Upper

73 100

57 19.5 16.2 24.4



#20

Methylene Chloride

Concen: 19.005 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Tgt Ion: 84 Resp: 35395

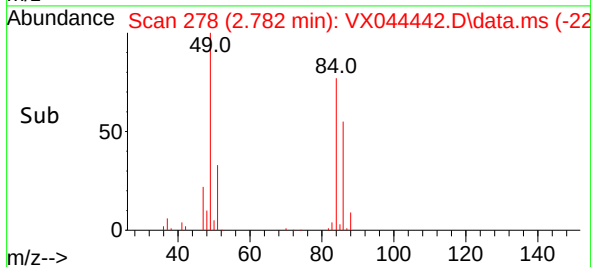
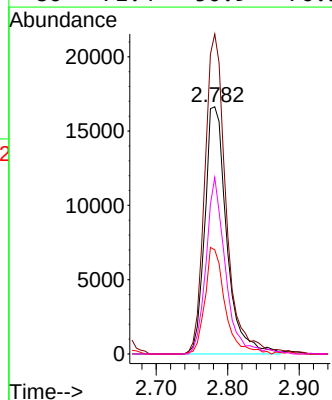
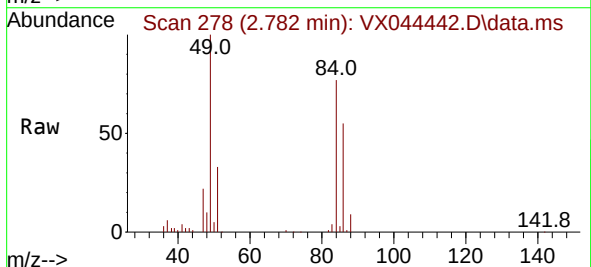
Ion Ratio Lower Upper

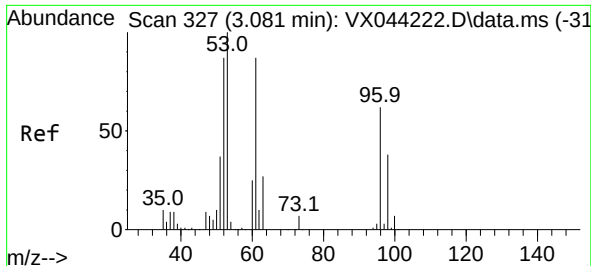
84 100

49 129.4 104.2 156.4

51 42.1 32.2 48.4

86 71.4 50.9 76.3

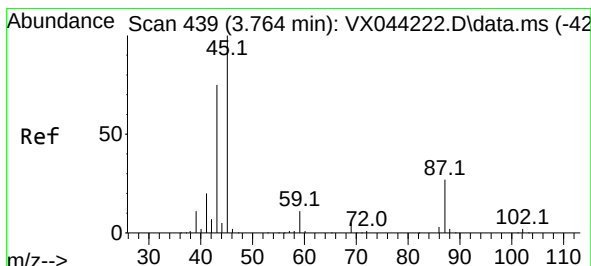
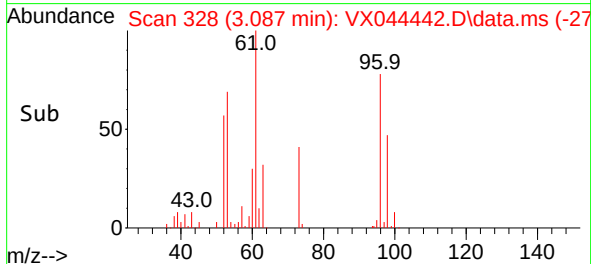
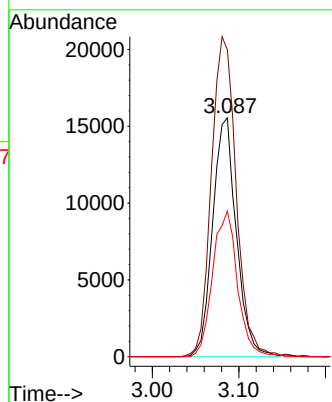
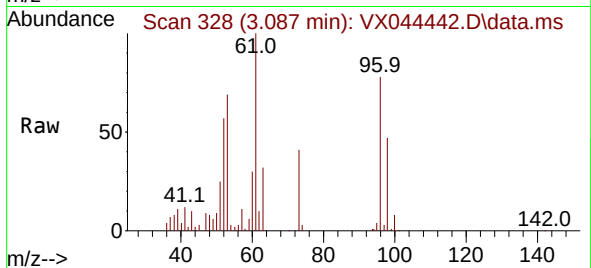




#21
trans-1,2-Dichloroethene
Concen: 17.931 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

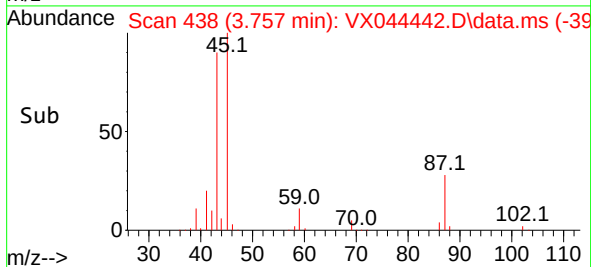
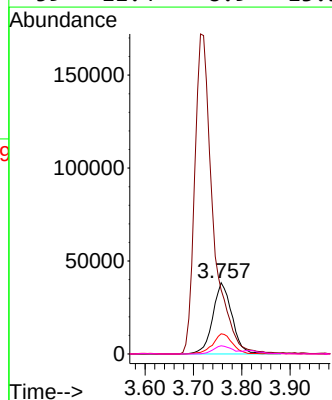
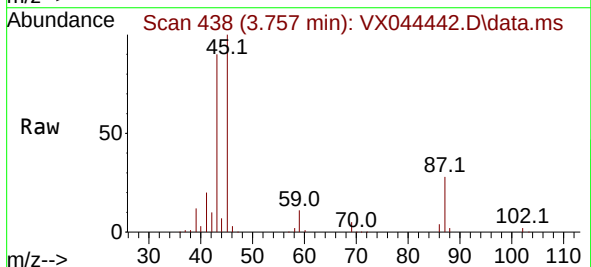
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

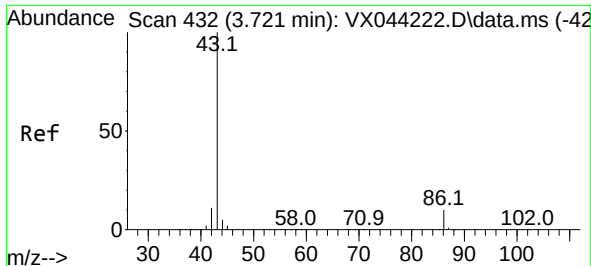
Tgt Ion: 96 Resp: 29631
Ion Ratio Lower Upper
96 100
61 128.4 112.0 168.0
98 60.9 48.8 73.2



#22
Diisopropyl ether
Concen: 18.182 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 45 Resp: 106036
Ion Ratio Lower Upper
45 100
43 90.1 60.2 90.2
87 28.4 21.2 31.8
59 11.4 8.9 13.3

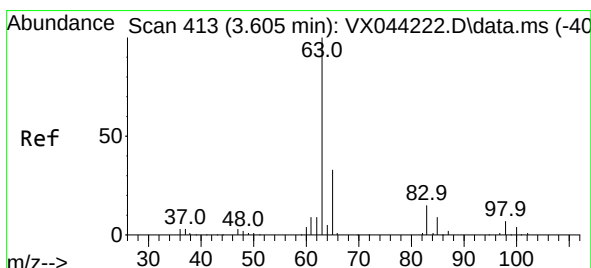
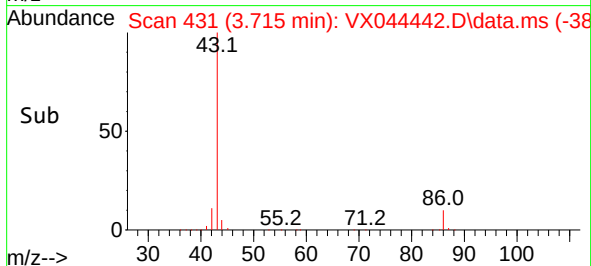
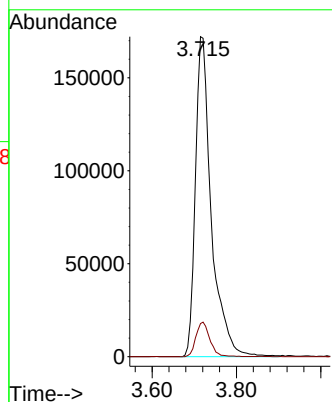
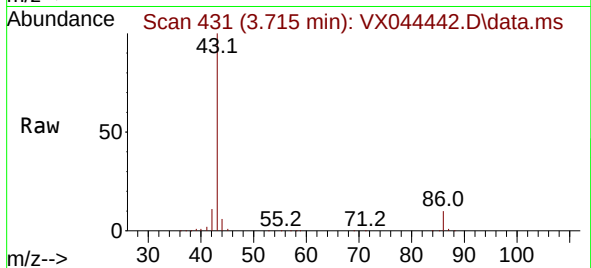




#23
 Vinyl Acetate
 Concen: 95.526 ug/l
 RT: 3.715 min Scan# 411
 Delta R.T. -0.006 min
 Lab File: VX044442.D
 Acq: 20 Dec 2024 11:16

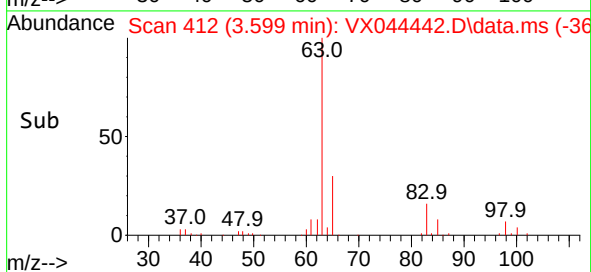
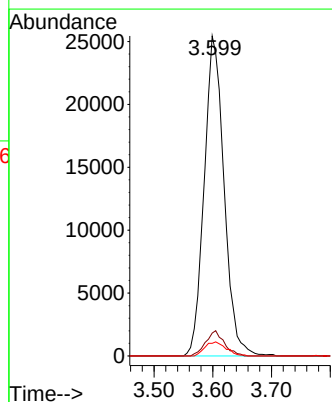
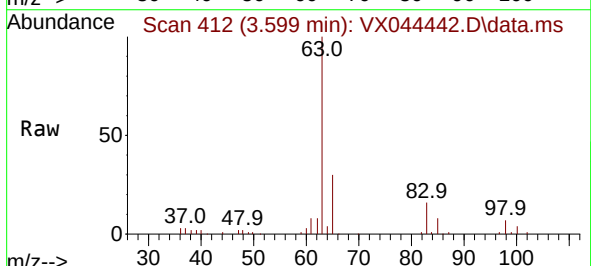
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1220WBSD01

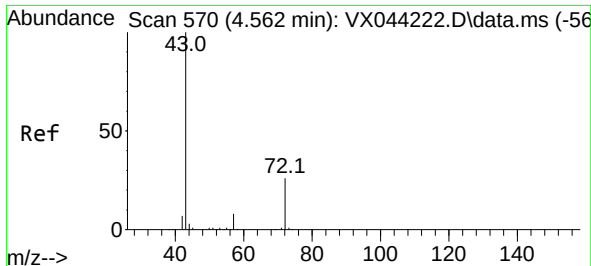
Tgt Ion: 43 Resp: 452921
 Ion Ratio Lower Upper
 43 100
 86 10.4 8.2 12.2



#24
 1,1-Dichloroethane
 Concen: 18.417 ug/l
 RT: 3.599 min Scan# 412
 Delta R.T. -0.006 min
 Lab File: VX044442.D
 Acq: 20 Dec 2024 11:16

Tgt Ion: 63 Resp: 59870
 Ion Ratio Lower Upper
 63 100
 98 7.1 3.6 10.8
 100 4.0 2.1 6.3

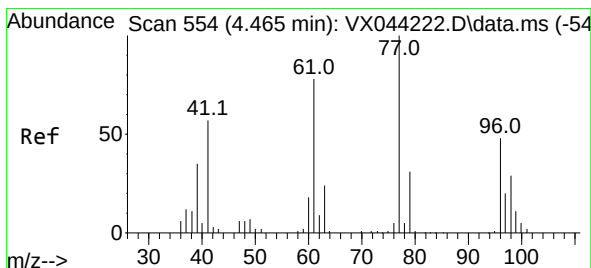
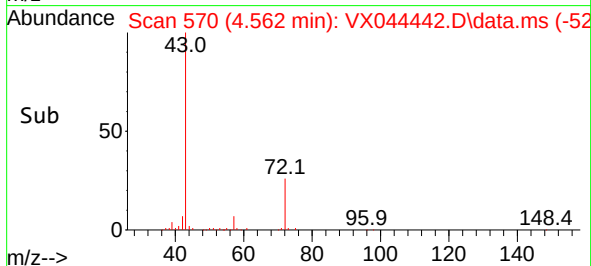
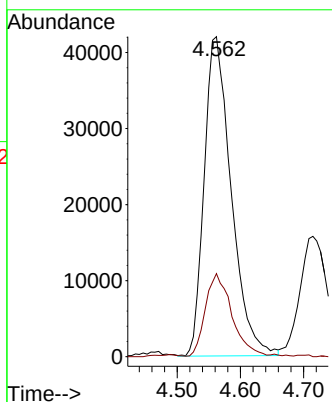
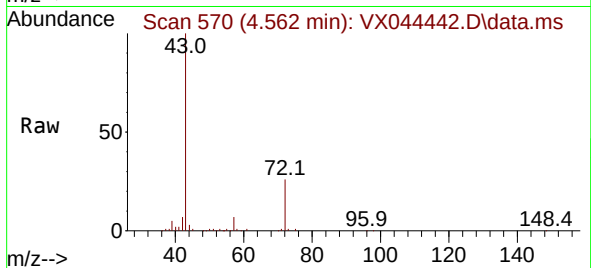




#25
2-Butanone
Concen: 88.514 ug/l
RT: 4.562 min Scan# 51
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

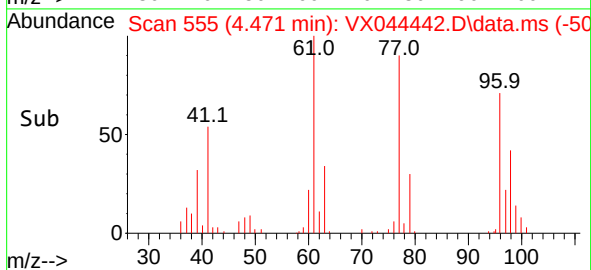
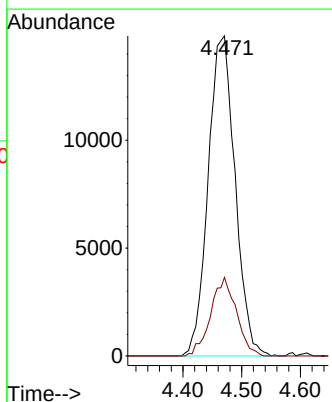
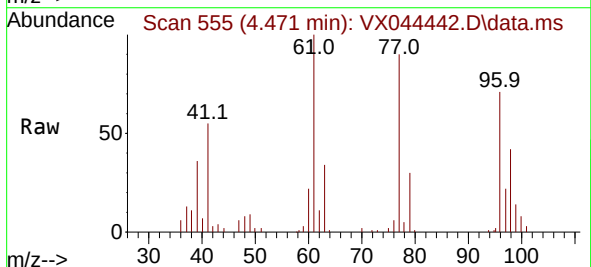
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

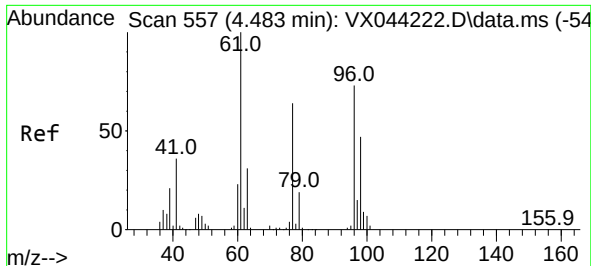
Tgt Ion: 43 Resp: 124774
Ion Ratio Lower Upper
43 100
72 25.8 20.2 30.4



#26
2,2-Dichloropropane
Concen: 17.886 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 77 Resp: 47237
Ion Ratio Lower Upper
77 100
97 23.5 10.7 32.1

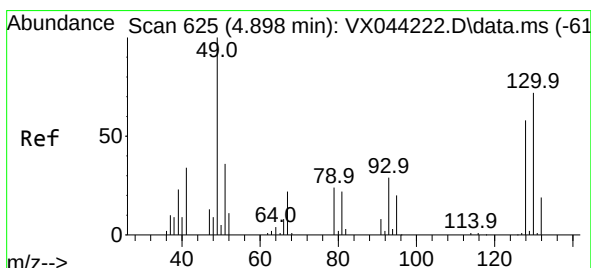
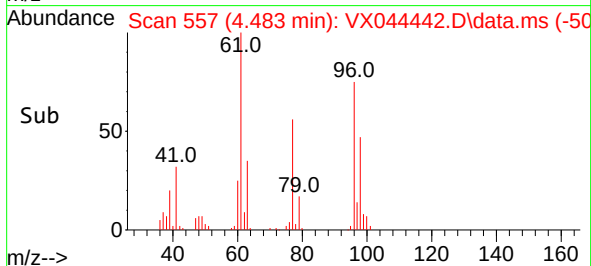
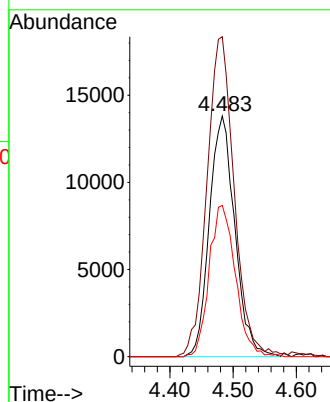
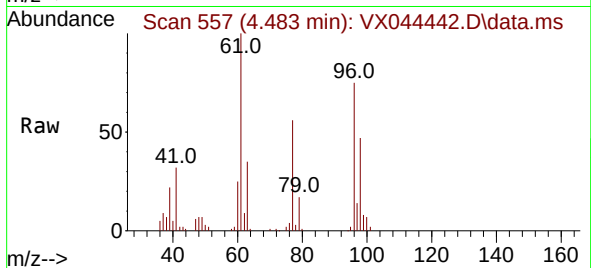




#27
 cis-1,2-Dichloroethene
 Concen: 18.425 ug/l
 RT: 4.483 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VX044442.D
 Acq: 20 Dec 2024 11:16

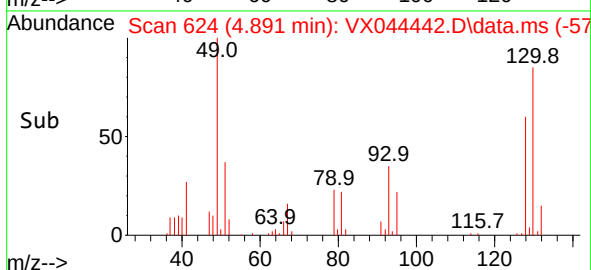
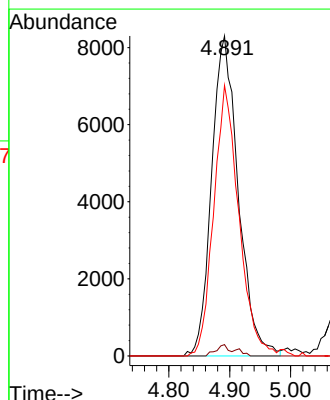
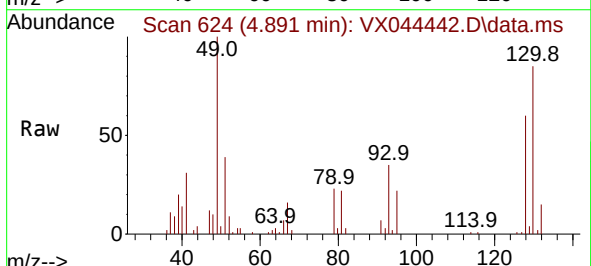
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1220WBSD01

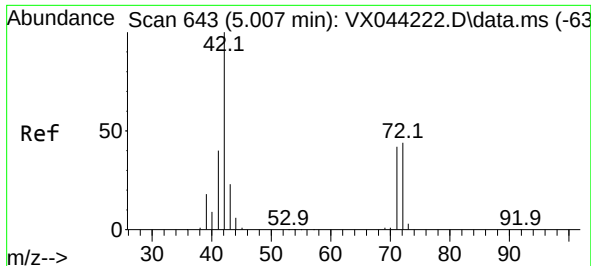
Tgt Ion: 96	Resp: 38668
Ion Ratio	Lower Upper
96 100	
61 141.7	0.0 299.0
98 64.5	0.0 129.0



#28
 Bromochloromethane
 Concen: 15.877 ug/l
 RT: 4.891 min Scan# 624
 Delta R.T. -0.006 min
 Lab File: VX044442.D
 Acq: 20 Dec 2024 11:16

Tgt Ion: 49	Resp: 25309
Ion Ratio	Lower Upper
49 100	
129 1.7	0.0 4.2
130 79.3	62.1 93.1





#29

Tetrahydrofuran

Concen: 88.318 ug/l

RT: 5.007 min Scan# 643

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

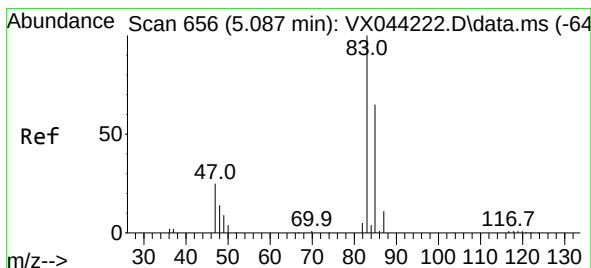
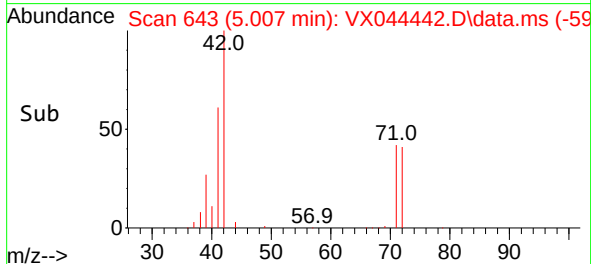
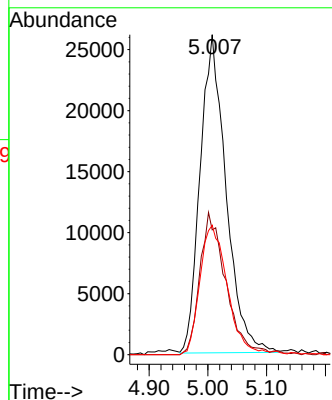
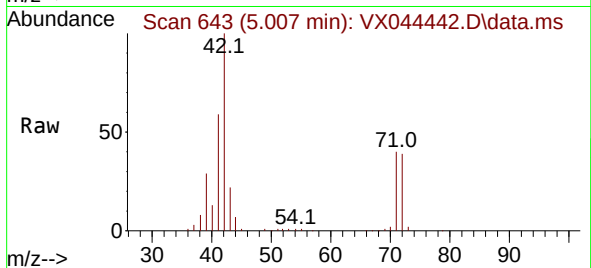
Tgt Ion: 42 Resp: 79911

Ion Ratio Lower Upper

42 100

72 44.6 37.0 55.6

71 43.3 33.6 50.4



#30

Chloroform

Concen: 18.293 ug/l

RT: 5.086 min Scan# 656

Delta R.T. -0.000 min

Lab File: VX044442.D

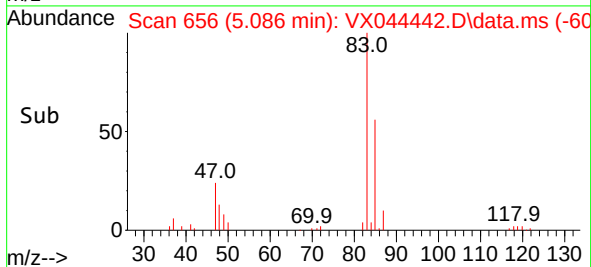
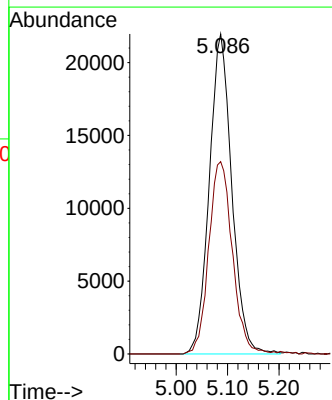
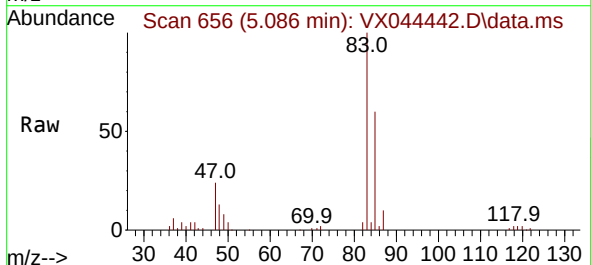
Acq: 20 Dec 2024 11:16

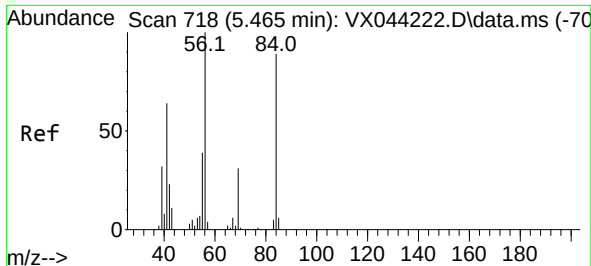
Tgt Ion: 83 Resp: 66814

Ion Ratio Lower Upper

83 100

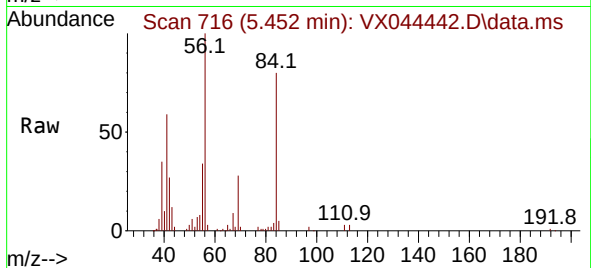
85 60.1 51.6 77.4



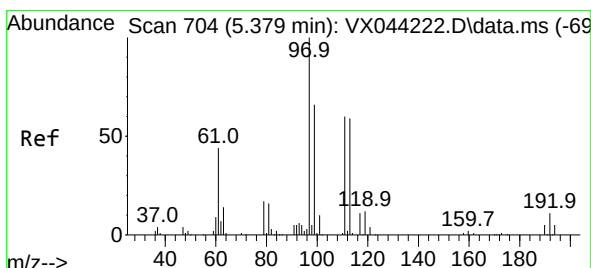
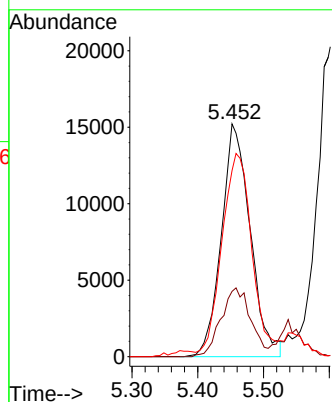
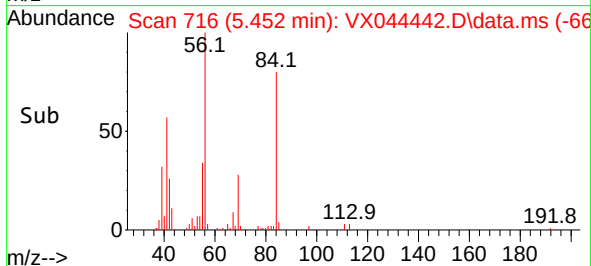


#31
Cyclohexane
Concen: 17.676 ug/l
RT: 5.452 min Scan# 716
Delta R.T. -0.012 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

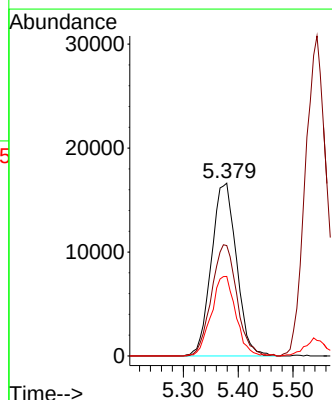
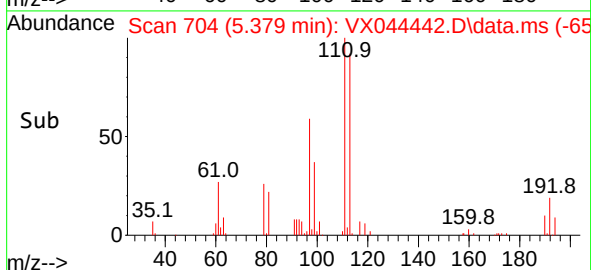
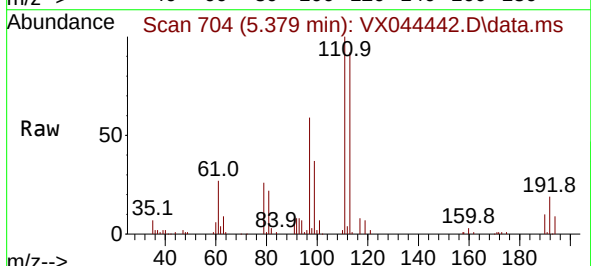


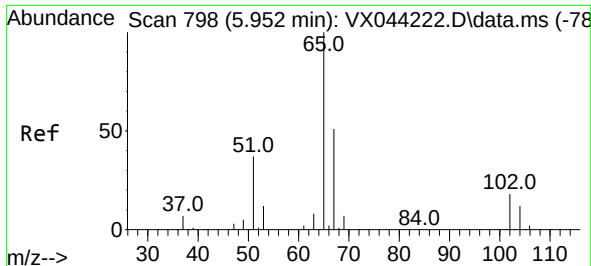
Tgt Ion: 56 Resp: 46401
Ion Ratio Lower Upper
56 100
69 28.0 24.7 37.1
84 77.3 71.0 106.6



#32
1,1,1-Trichloroethane
Concen: 17.450 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 97 Resp: 52904
Ion Ratio Lower Upper
97 100
99 64.8 50.8 76.2
61 44.9 35.2 52.8





#33

1,2-Dichloroethane-d4

Concen: 43.606 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

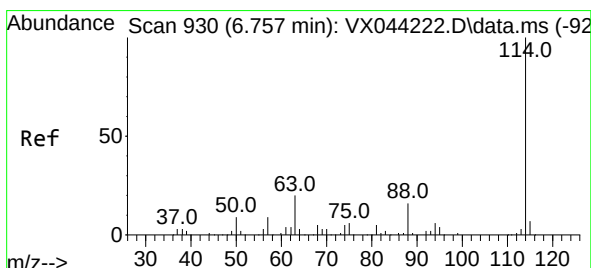
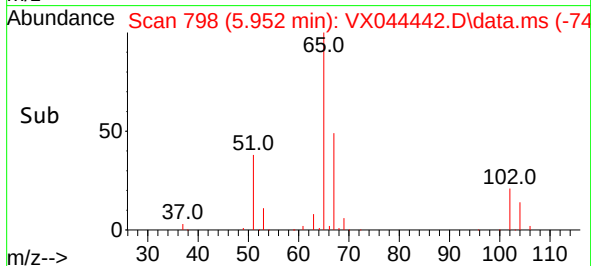
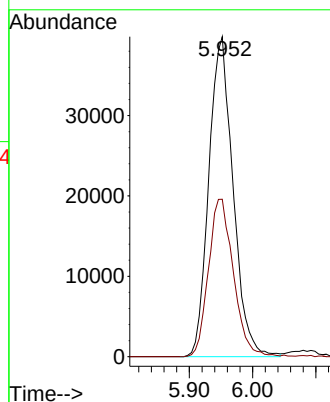
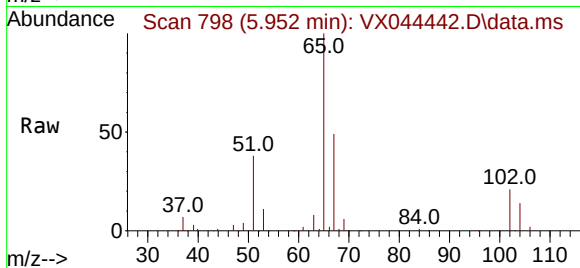
VX1220WBSD01

Tgt Ion: 65 Resp: 106058

Ion Ratio Lower Upper

65 100

67 50.8 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

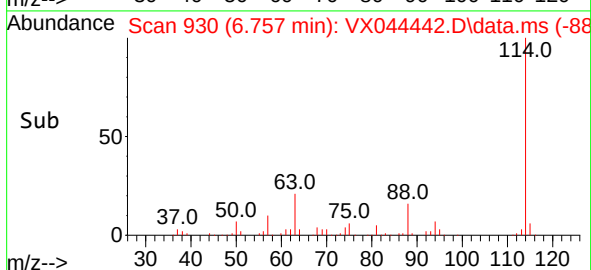
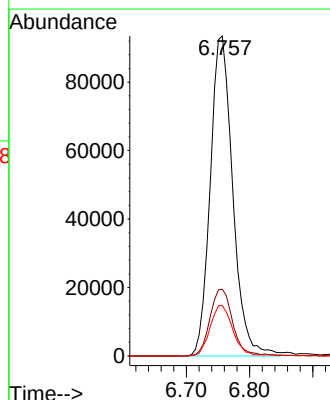
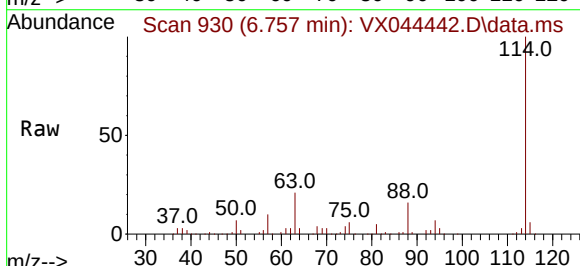
Tgt Ion: 114 Resp: 231232

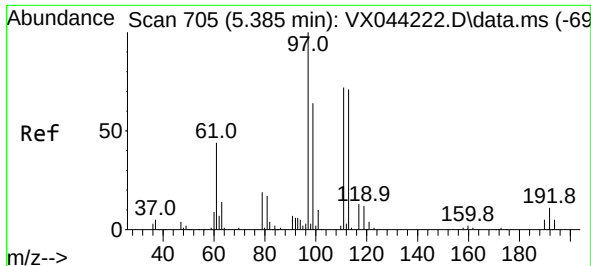
Ion Ratio Lower Upper

114 100

63 20.8 0.0 40.6

88 15.7 0.0 31.8





#35

Dibromofluoromethane

Concen: 49.260 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX044442.D

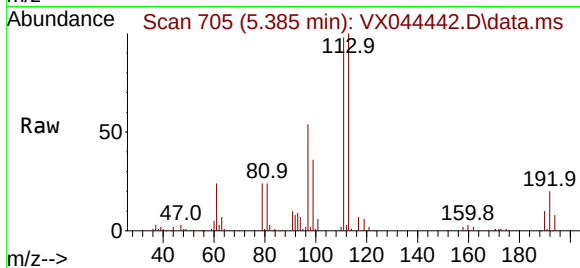
Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01



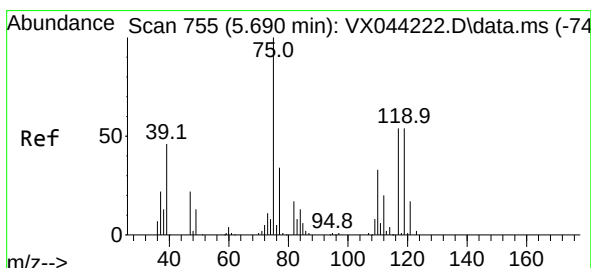
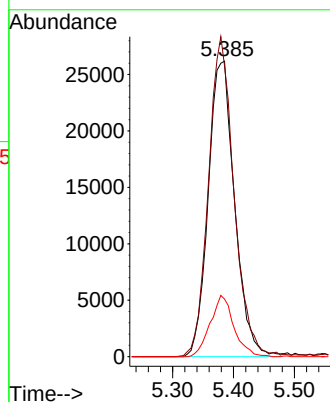
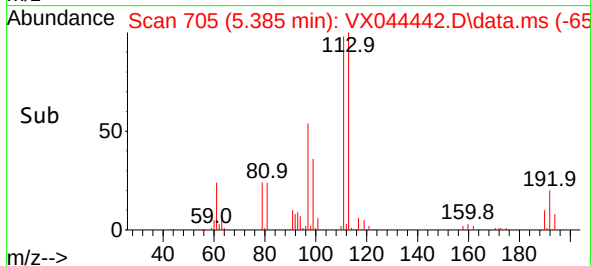
Tgt Ion:113 Resp: 78890

Ion Ratio Lower Upper

113 100

111 104.6 80.4 120.6

192 18.6 13.3 19.9



#36

1,1-Dichloropropene

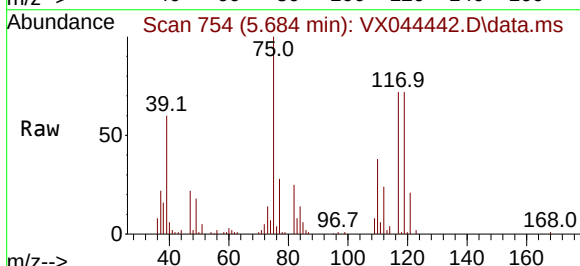
Concen: 19.123 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16



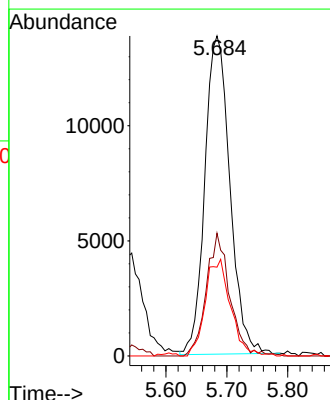
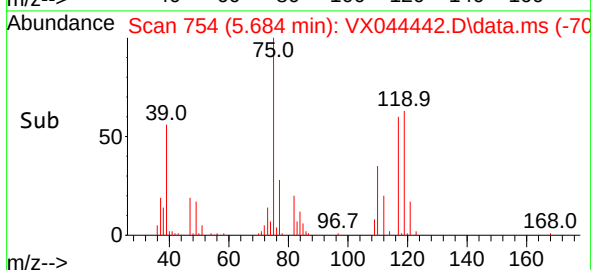
Tgt Ion: 75 Resp: 39588

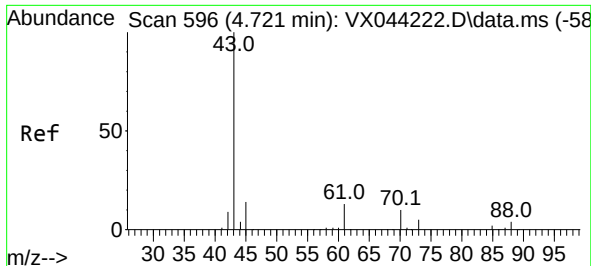
Ion Ratio Lower Upper

75 100

110 36.2 17.3 51.7

77 30.7 25.4 38.0





#37

Ethyl Acetate

Concen: 19.839 ug/l

RT: 4.715 min Scan# 595

Delta R.T. -0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

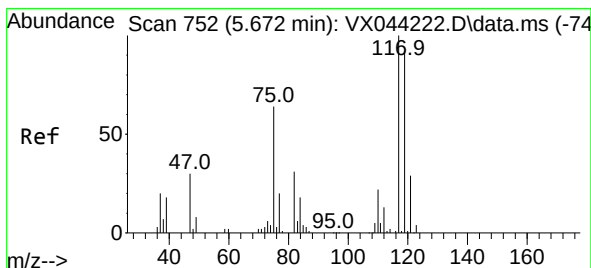
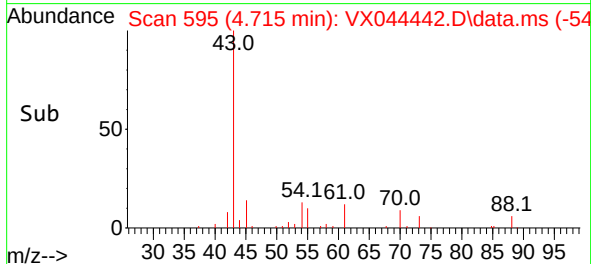
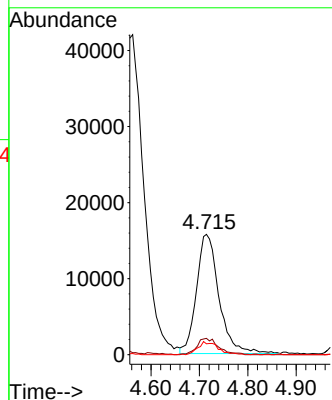
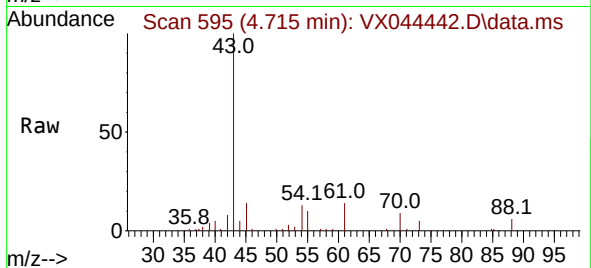
Tgt Ion: 43 Resp: 50767

Ion Ratio Lower Upper

43 100

61 13.0 9.8 14.8

70 9.7 7.7 11.5



#38

Carbon Tetrachloride

Concen: 18.922 ug/l

RT: 5.666 min Scan# 751

Delta R.T. -0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

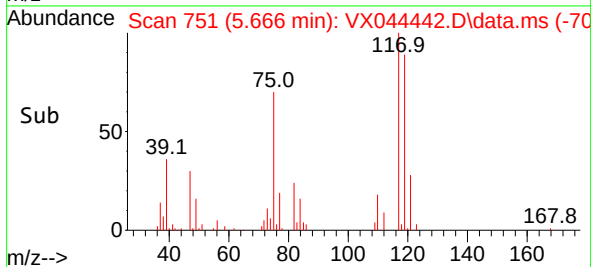
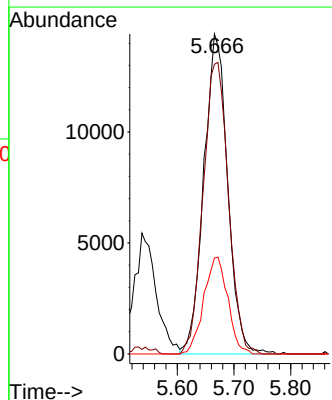
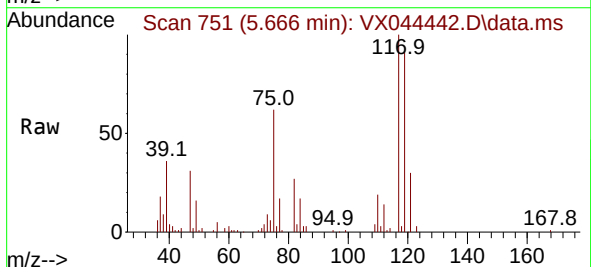
Tgt Ion: 117 Resp: 42171

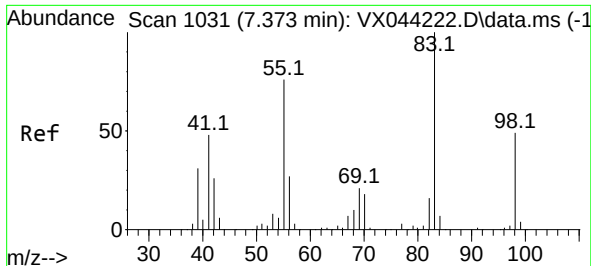
Ion Ratio Lower Upper

117 100

119 90.6 74.2 111.4

121 30.0 23.0 34.6





#39

Methylcyclohexane

Concen: 19.613 ug/l

RT: 7.373 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

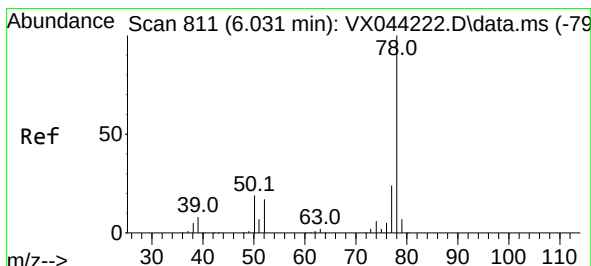
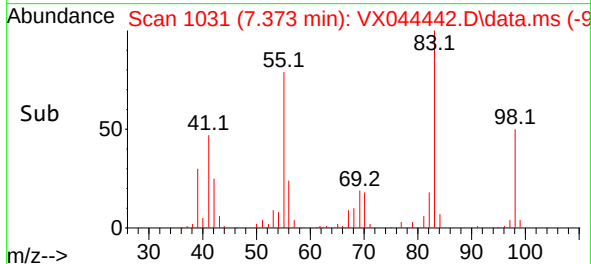
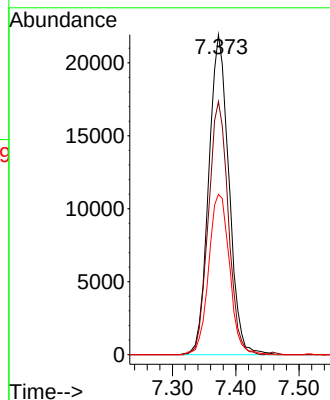
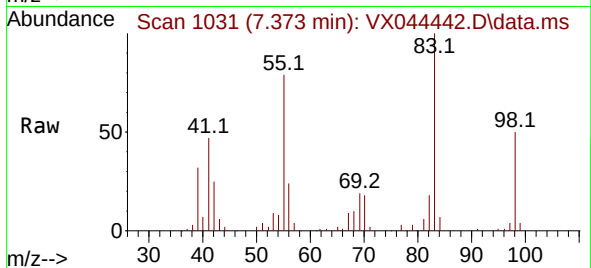
Tgt Ion: 83 Resp: 48538

Ion Ratio Lower Upper

83 100

55 79.1 60.7 91.1

98 50.1 38.9 58.3



#40

Benzene

Concen: 20.770 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX044442.D

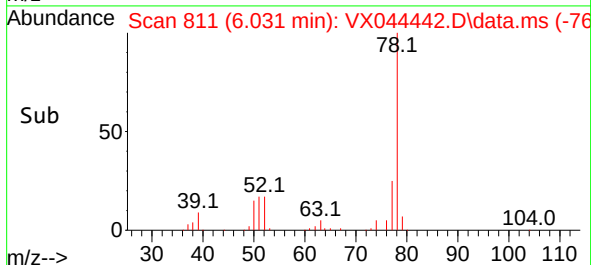
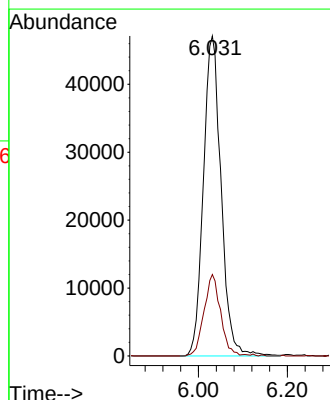
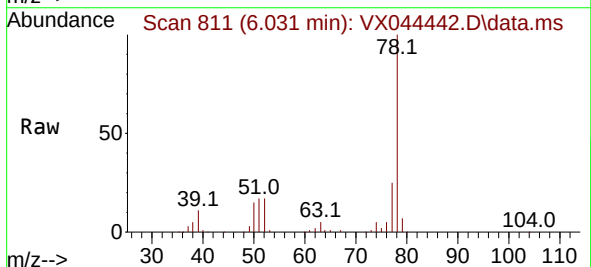
Acq: 20 Dec 2024 11:16

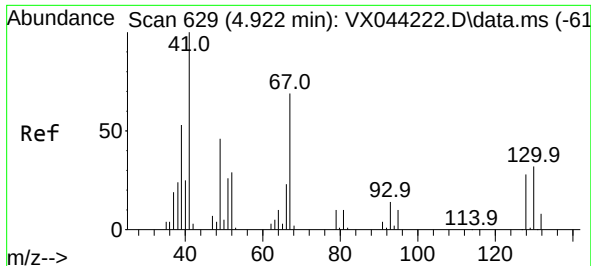
Tgt Ion: 78 Resp: 130546

Ion Ratio Lower Upper

78 100

77 25.5 19.3 28.9

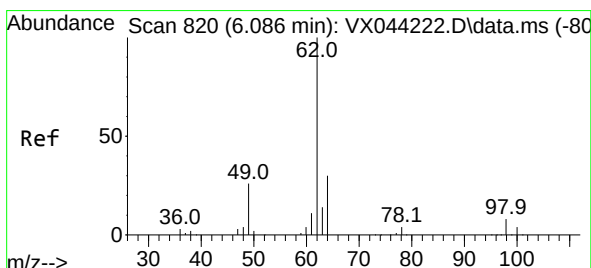
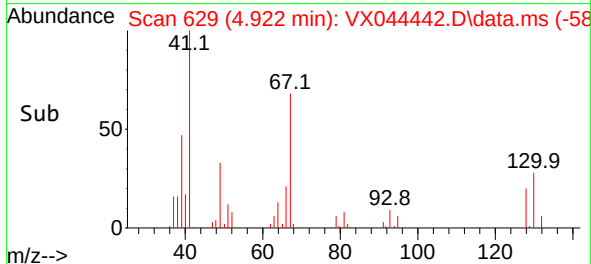
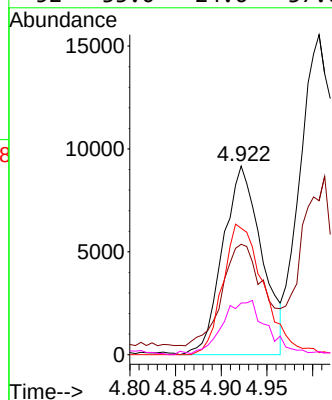
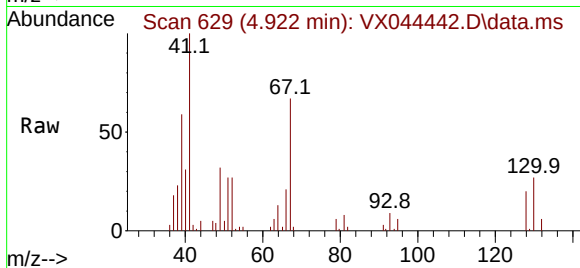




#41
Methacrylonitrile
Concen: 19.955 ug/l
RT: 4.922 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

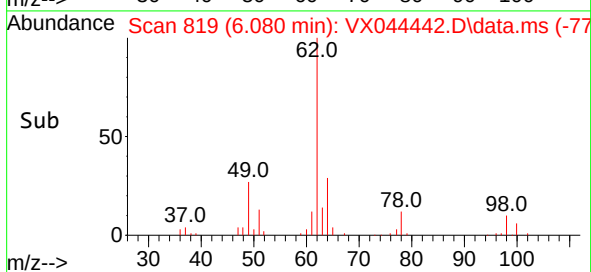
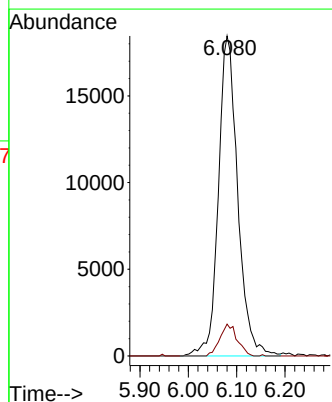
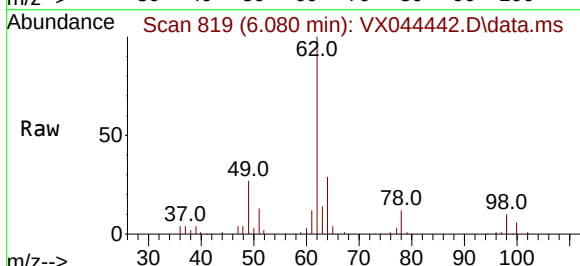
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

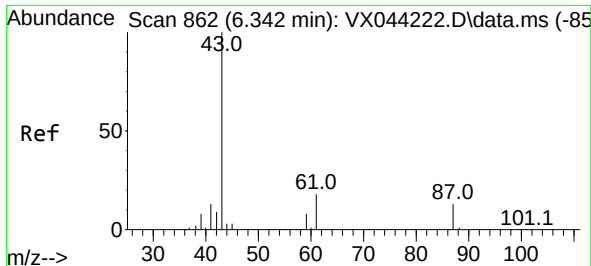
Tgt Ion: 41	Resp: 27115
Ion Ratio	Lower Upper
41 100	
39 57.3	44.2 66.4
67 73.3	57.2 85.8
52 33.0	24.6 37.0



#42
1,2-Dichloroethane
Concen: 19.765 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 62	Resp: 51173
Ion Ratio	Lower Upper
62 100	
98 8.9	0.0 15.8

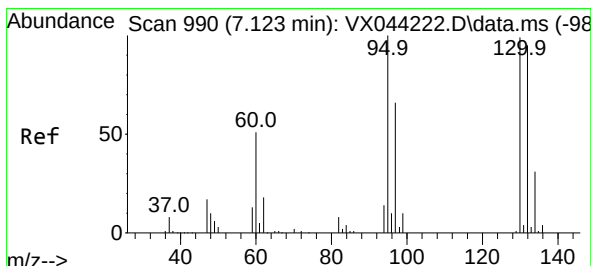
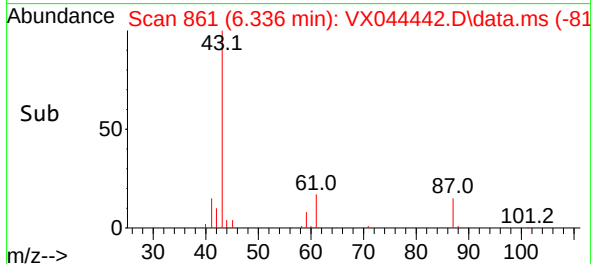
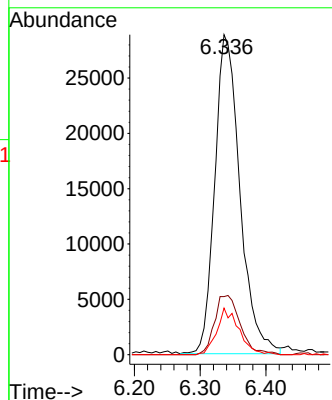
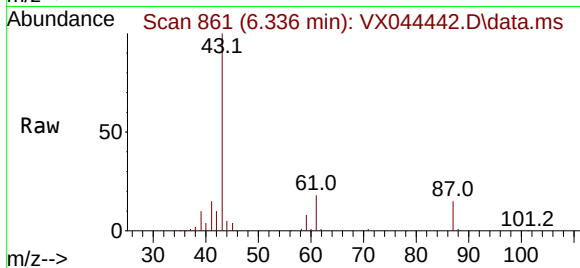




#43
Isopropyl Acetate
Concen: 19.190 ug/l
RT: 6.336 min Scan# 80
Delta R.T. -0.006 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

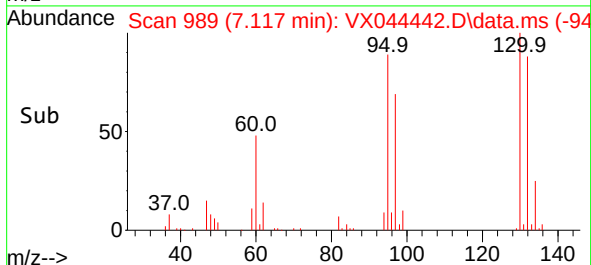
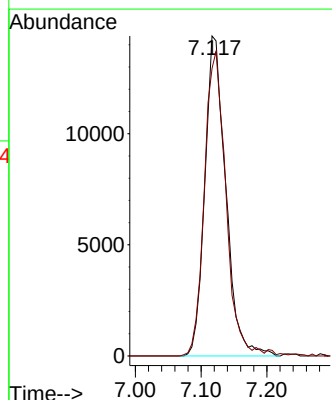
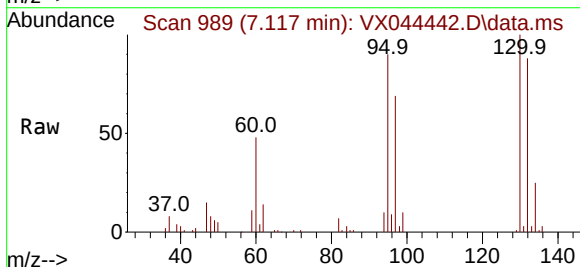
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

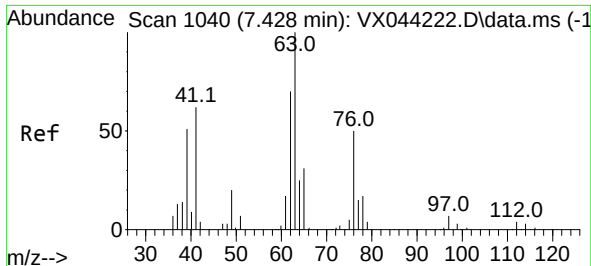
Tgt Ion: 43 Resp: 76752
Ion Ratio Lower Upper
43 100
61 19.0 14.2 21.2
87 12.9 10.2 15.2



#44
Trichloroethene
Concen: 20.344 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion:130 Resp: 31887
Ion Ratio Lower Upper
130 100
95 89.8 0.0 201.4





#45

1,2-Dichloropropane

Concen: 20.292 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

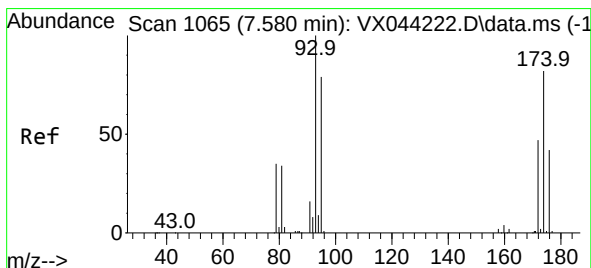
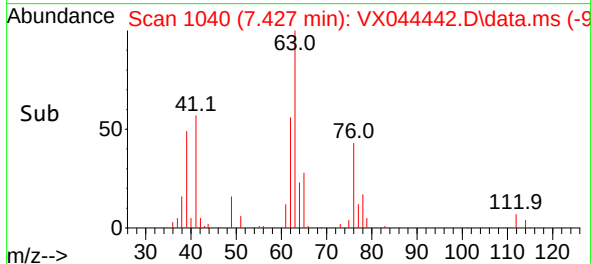
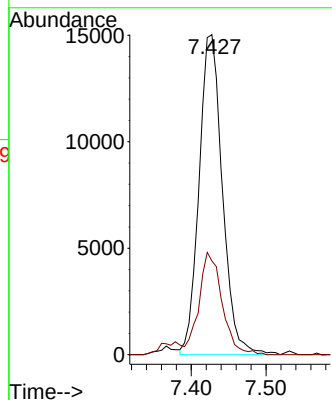
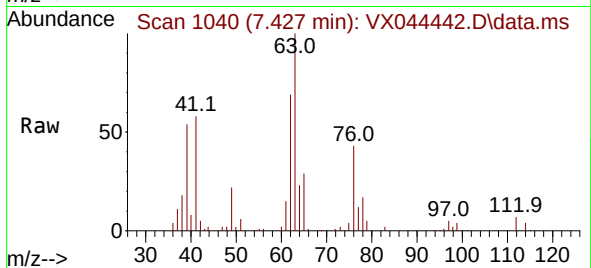
VX1220WBSD01

Tgt Ion: 63 Resp: 32584

Ion Ratio Lower Upper

63 100

65 29.3 24.6 37.0



#46

Dibromomethane

Concen: 20.773 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. -0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

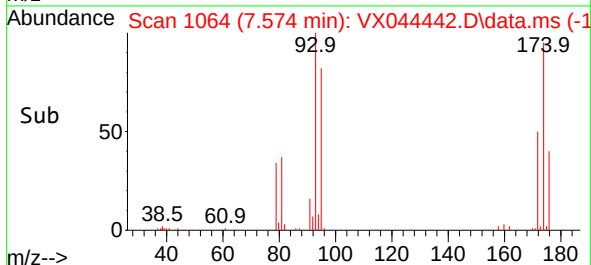
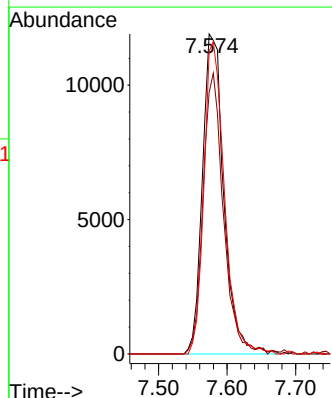
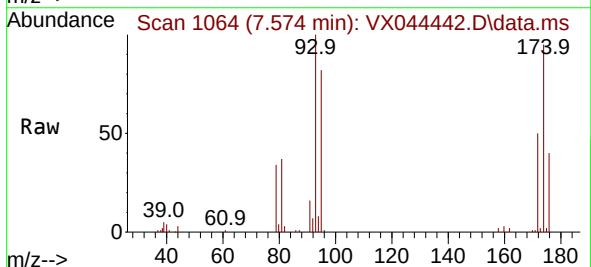
Tgt Ion: 93 Resp: 25878

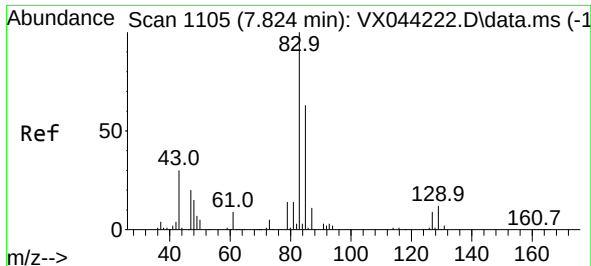
Ion Ratio Lower Upper

93 100

95 83.6 65.4 98.2

174 93.6 67.9 101.9

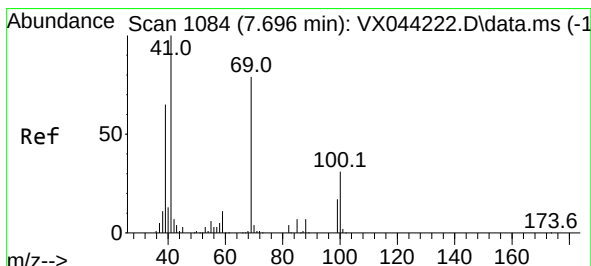
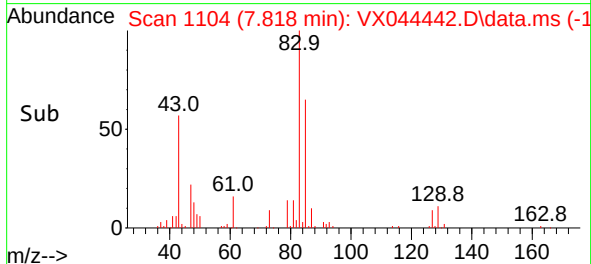
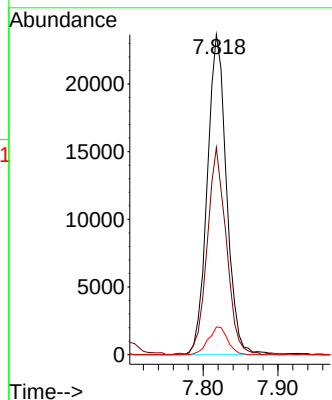
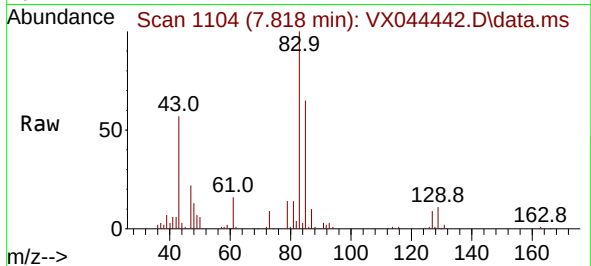




#47
Bromodichloromethane
Concen: 19.655 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. -0.006 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

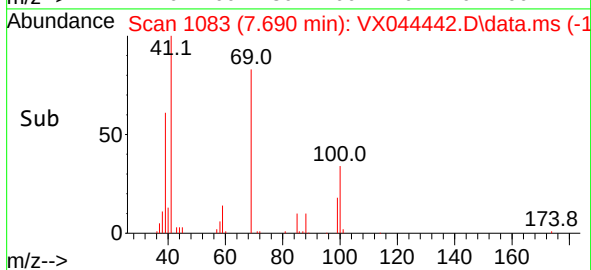
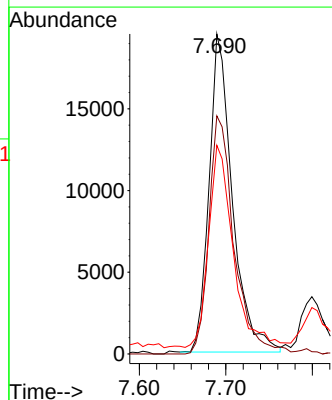
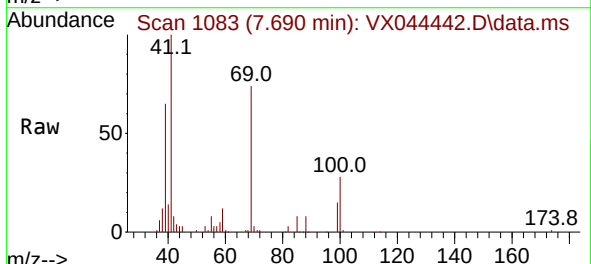
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

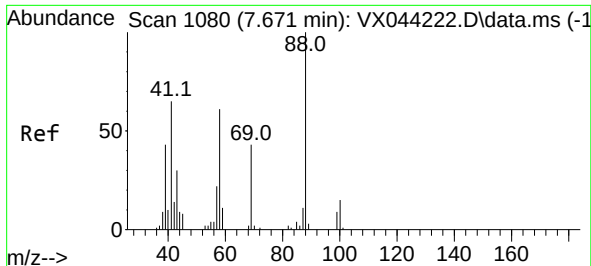
Tgt Ion: 83 Resp: 42288
Ion Ratio Lower Upper
83 100
85 64.4 50.6 75.8
127 8.7 7.3 10.9



#48
Methyl methacrylate
Concen: 18.781 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 41 Resp: 36464
Ion Ratio Lower Upper
41 100
69 80.9 62.4 93.6
39 67.4 53.3 79.9





#49

1,4-Dioxane

Concen: 295.032 ug/l

RT: 7.665 min Scan# 1080

Delta R.T. -0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

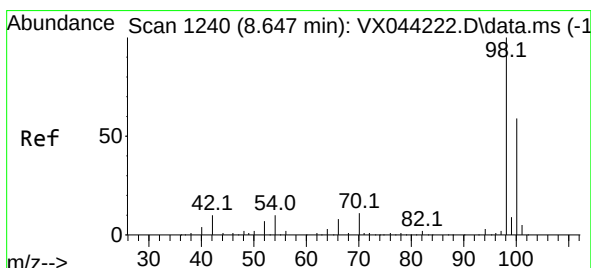
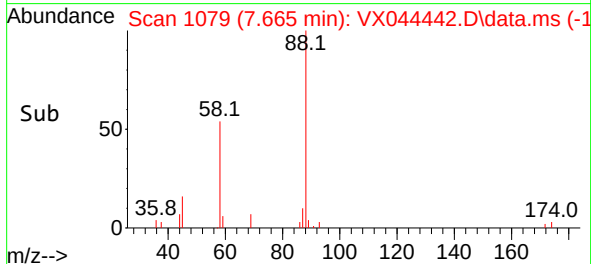
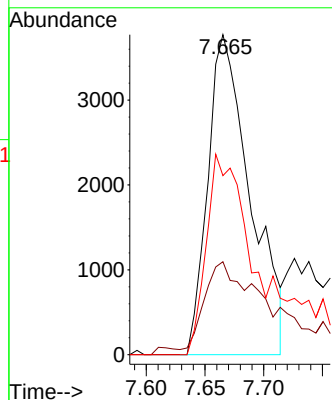
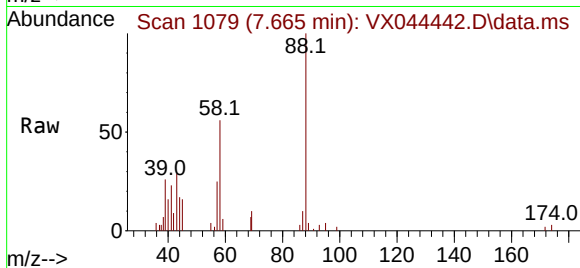
Tgt Ion: 88 Resp: 9497

Ion Ratio Lower Upper

88 100

43 39.3 27.1 40.7

58 84.4 41.0 61.4#



#50

Toluene-d8

Concen: 49.913 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX044442.D

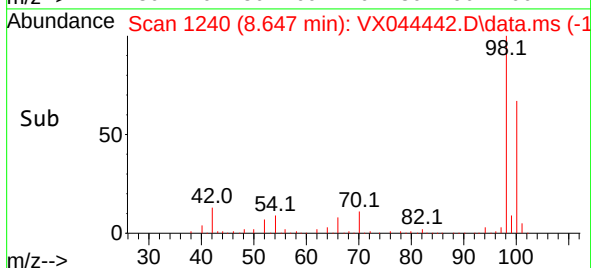
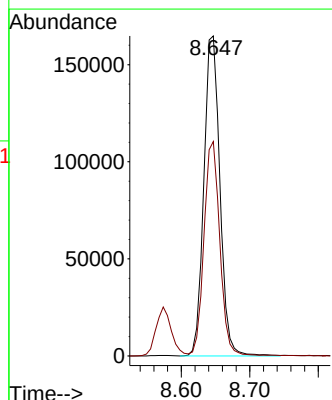
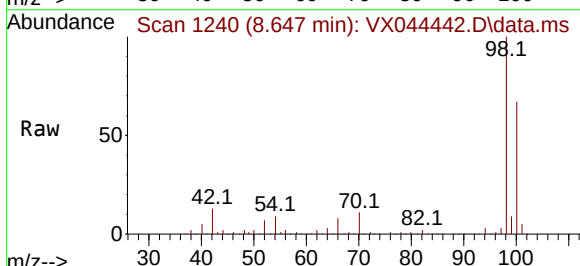
Acq: 20 Dec 2024 11:16

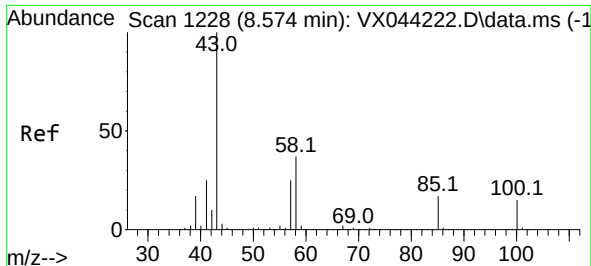
Tgt Ion: 98 Resp: 269677

Ion Ratio Lower Upper

98 100

100 66.0 51.5 77.3

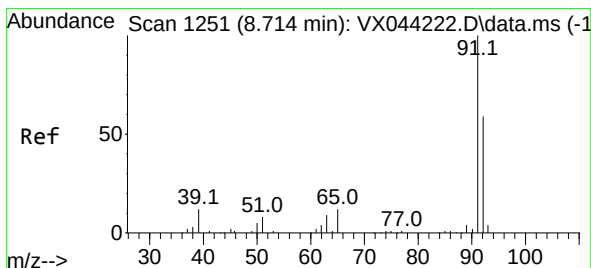
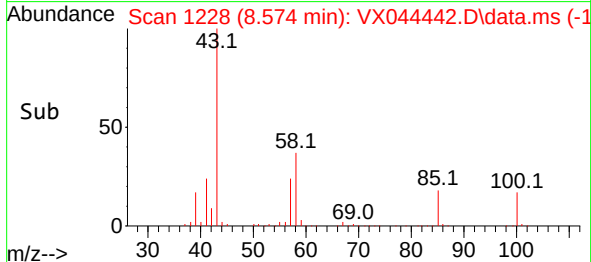
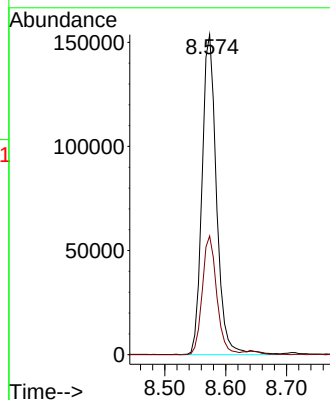
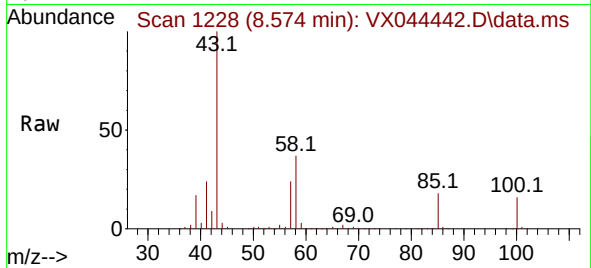




#51
4-Methyl-2-Pentanone
Concen: 98.990 ug/l
RT: 8.574 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

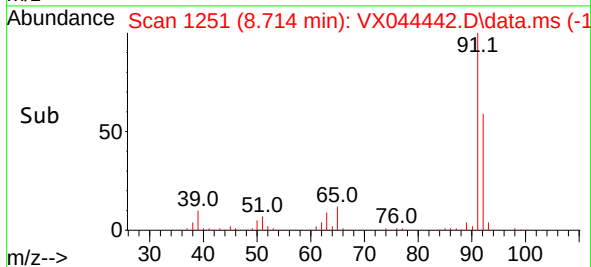
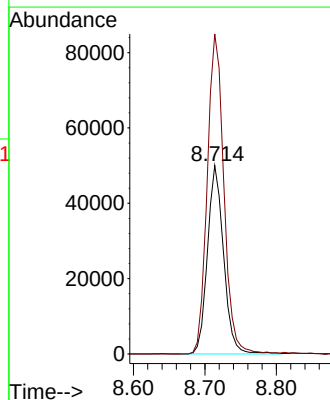
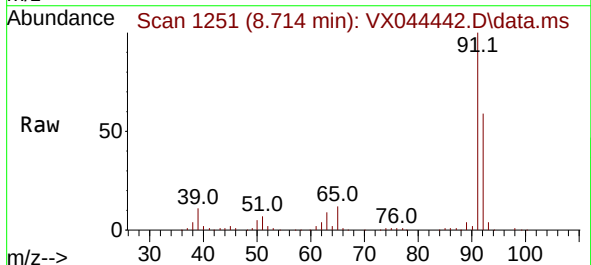
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

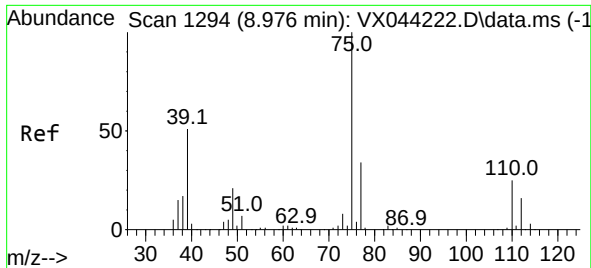
Tgt Ion: 43 Resp: 254570
Ion Ratio Lower Upper
43 100
58 36.9 29.4 44.0



#52
Toluene
Concen: 19.908 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 92 Resp: 78578
Ion Ratio Lower Upper
92 100
91 174.7 137.0 205.6

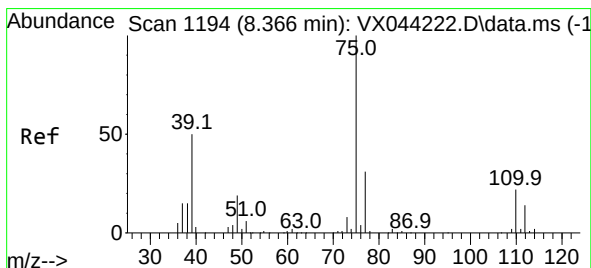
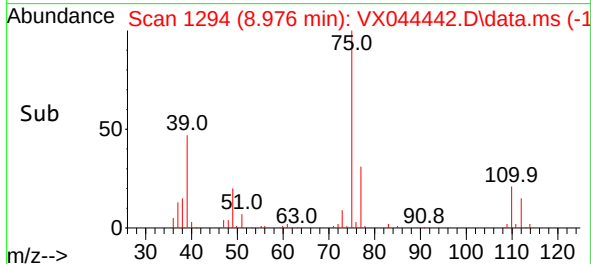
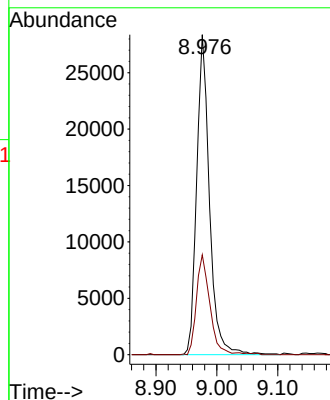
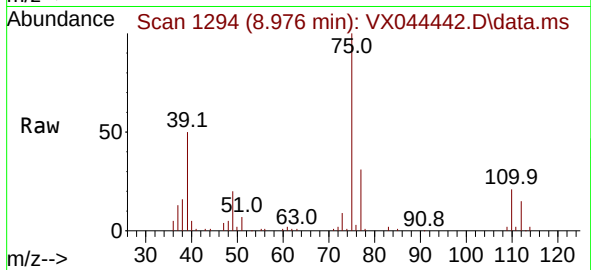




#53
t-1,3-Dichloropropene
Concen: 19.092 ug/l
RT: 8.976 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

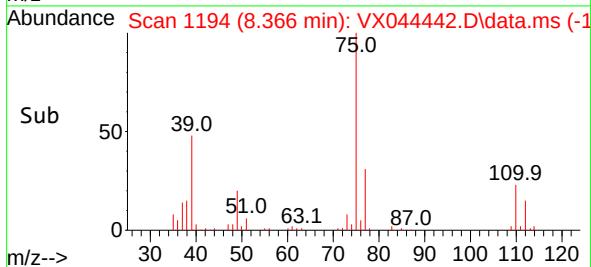
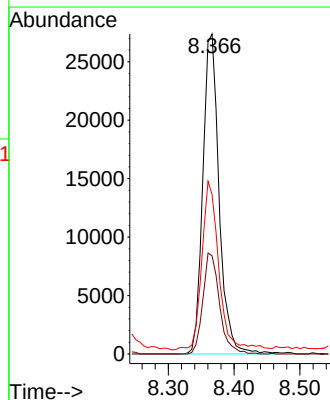
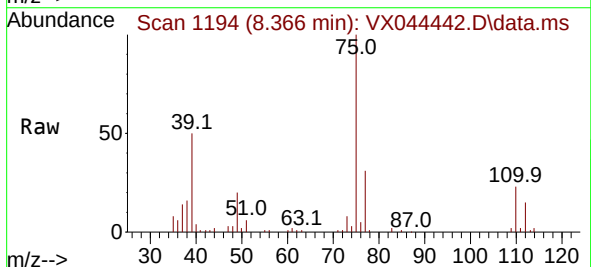
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

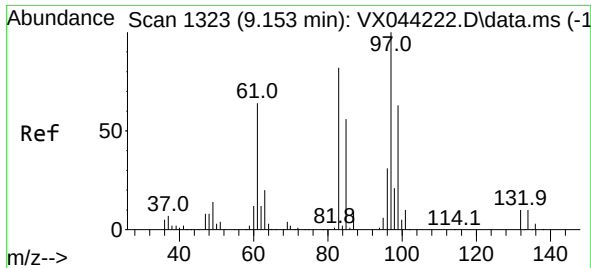
Tgt Ion: 75 Resp: 41297
Ion Ratio Lower Upper
75 100
77 31.2 27.2 40.8



#54
cis-1,3-Dichloropropene
Concen: 20.165 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 75 Resp: 47240
Ion Ratio Lower Upper
75 100
77 30.7 24.7 37.1
39 47.8 40.3 60.5

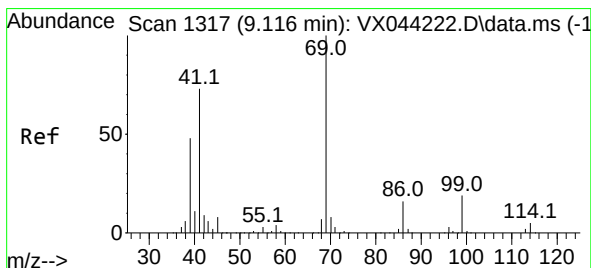
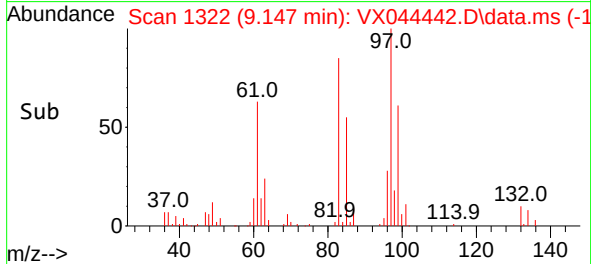
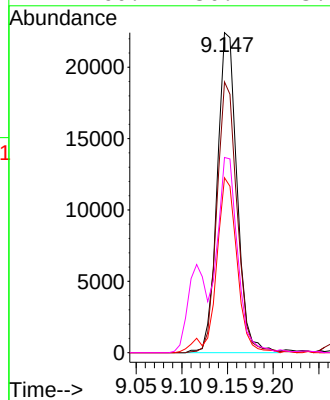
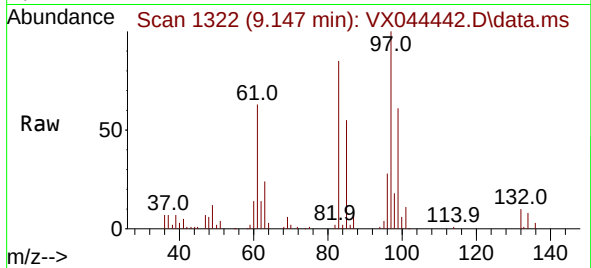




#55
 1,1,2-Trichloroethane
 Concen: 21.606 ug/l
 RT: 9.147 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: VX044442.D
 Acq: 20 Dec 2024 11:16

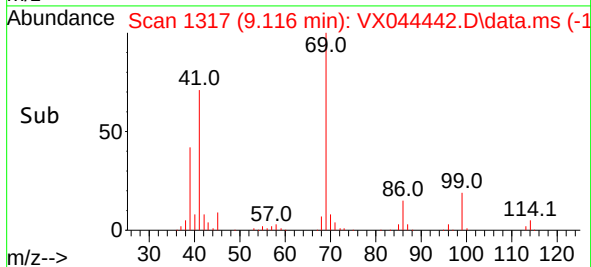
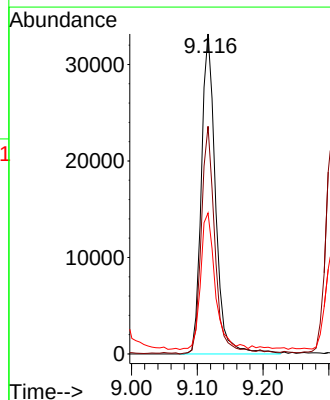
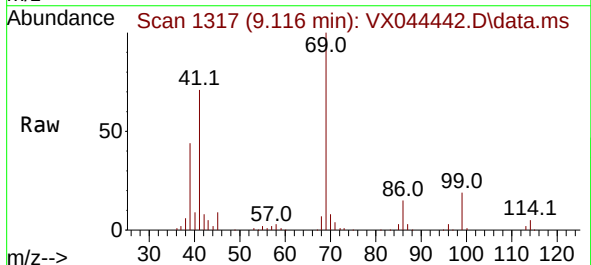
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1220WBSD01

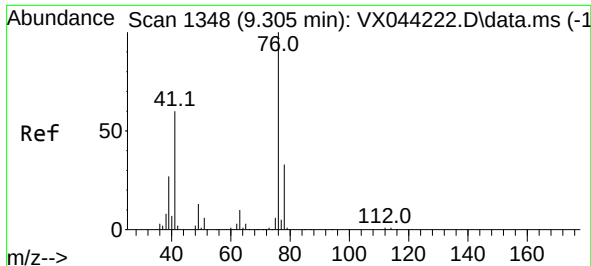
Tgt Ion: 97	Resp: 33879
Ion Ratio	Lower Upper
97 100	
83 84.6	65.3 97.9
85 54.7	44.6 67.0
99 60.1	50.2 75.2



#56
 Ethyl methacrylate
 Concen: 20.100 ug/l
 RT: 9.116 min Scan# 1317
 Delta R.T. -0.000 min
 Lab File: VX044442.D
 Acq: 20 Dec 2024 11:16

Tgt Ion: 69	Resp: 49755
Ion Ratio	Lower Upper
69 100	
41 68.3	56.6 85.0
39 43.9	37.4 56.0

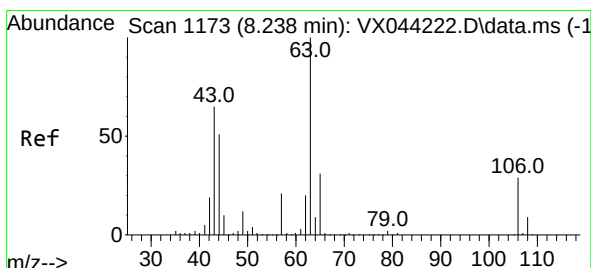
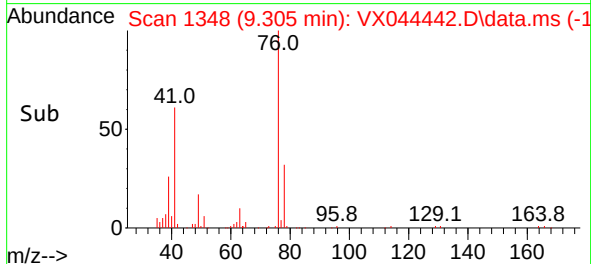
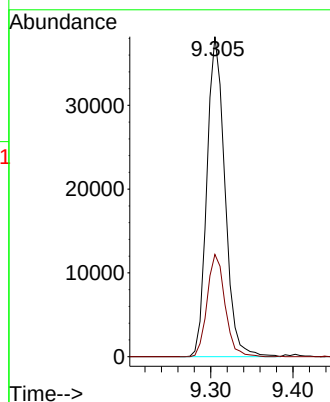
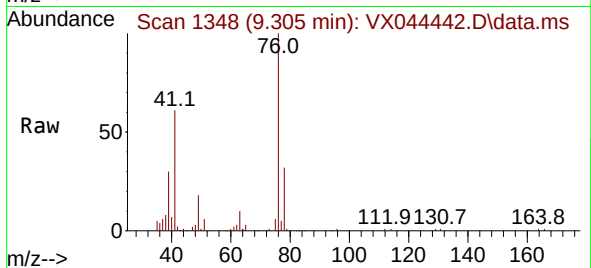




#57
1,3-Dichloropropane
Concen: 21.239 ug/l
RT: 9.305 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

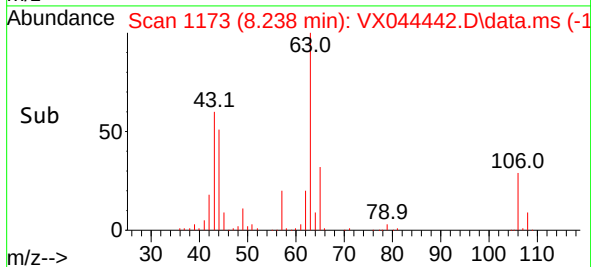
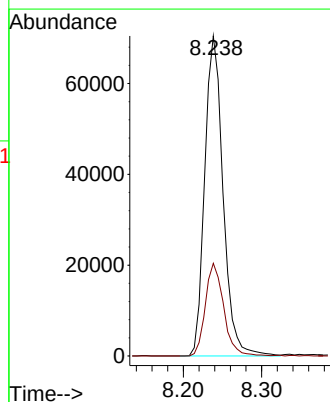
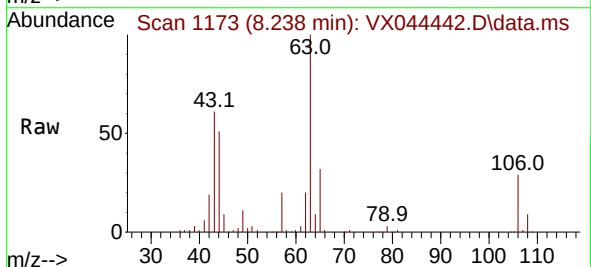
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

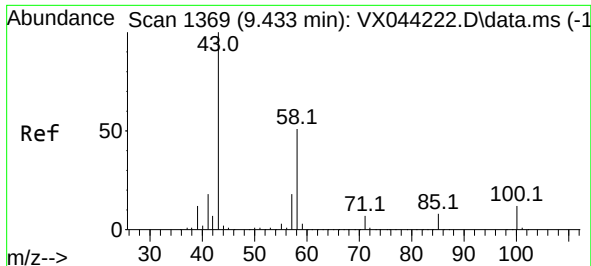
Tgt Ion: 76 Resp: 57969
Ion Ratio Lower Upper
76 100
78 31.7 26.5 39.7



#58
2-Chloroethyl Vinyl ether
Concen: 91.883 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 63 Resp: 114719
Ion Ratio Lower Upper
63 100
106 28.9 22.8 34.2





#59

2-Hexanone

Concen: 97.164 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

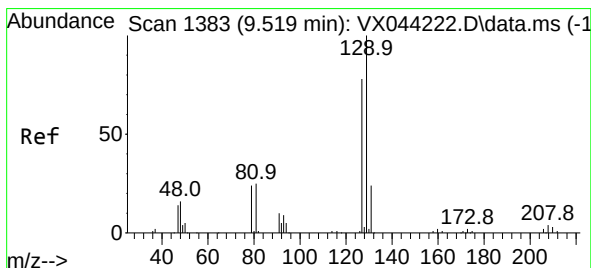
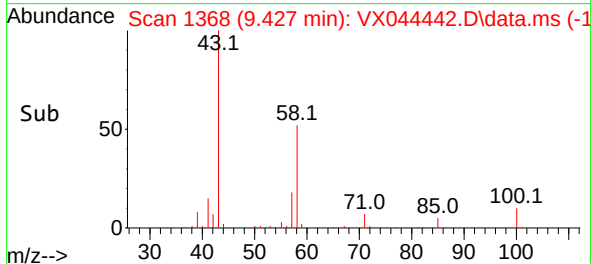
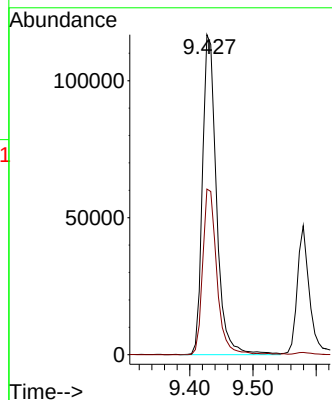
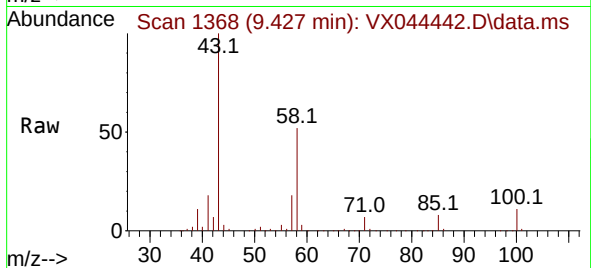
VX1220WBSD01

Tgt Ion: 43 Resp: 180865

Ion Ratio Lower Upper

43 100

58 52.4 25.7 77.0



#60

Dibromochloromethane

Concen: 19.339 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX044442.D

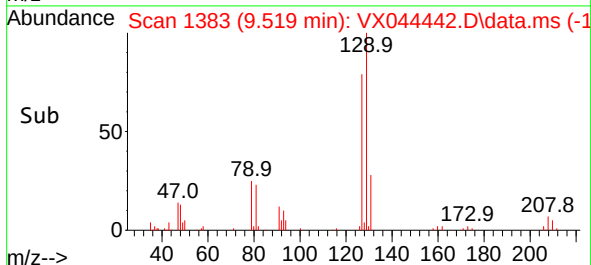
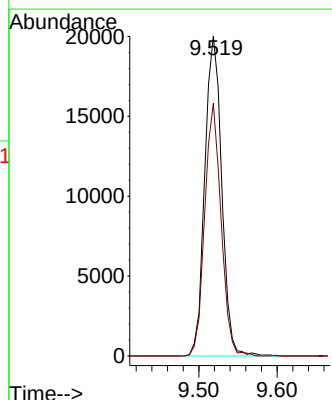
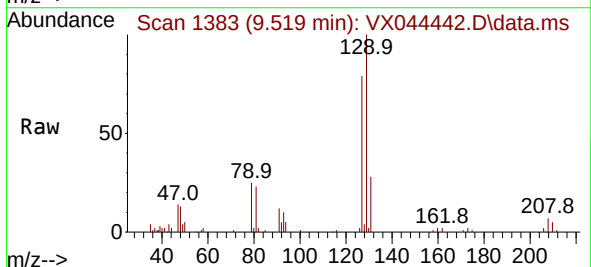
Acq: 20 Dec 2024 11:16

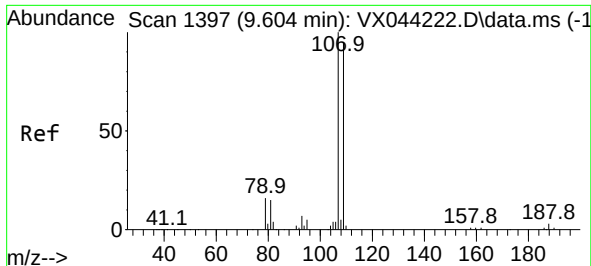
Tgt Ion: 129 Resp: 29976

Ion Ratio Lower Upper

129 100

127 76.4 38.5 115.3

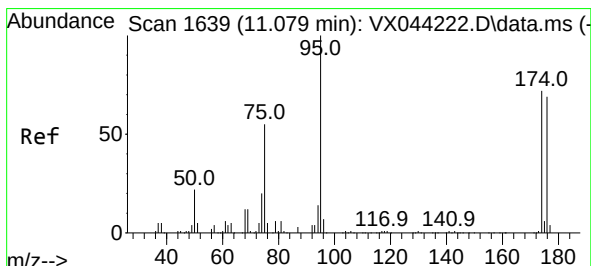
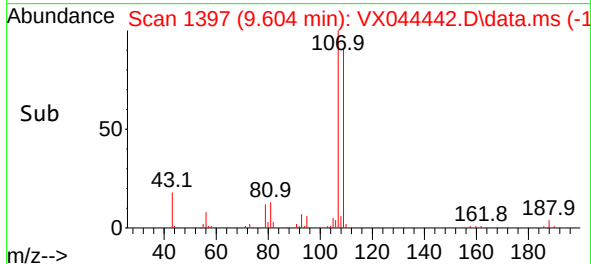
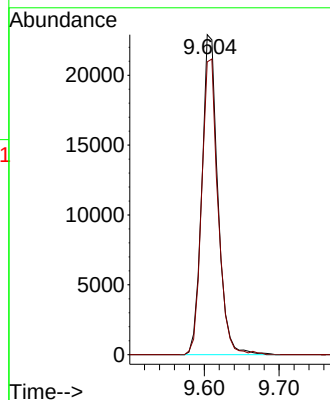
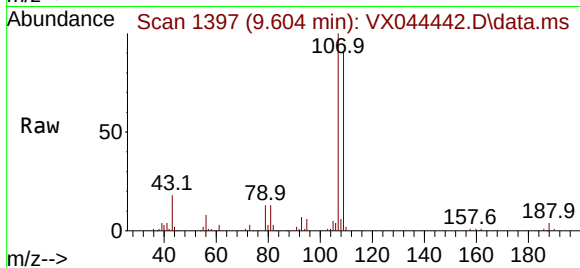




#61
1,2-Dibromoethane
Concen: 21.325 ug/l
RT: 9.604 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

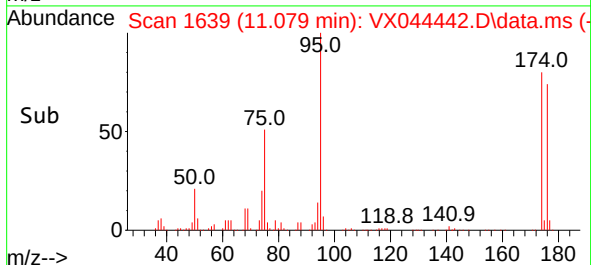
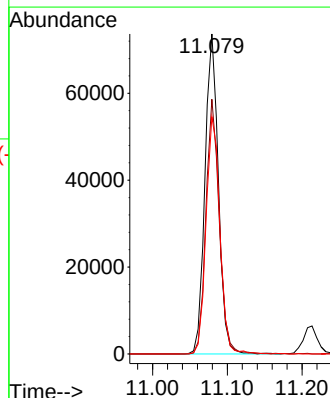
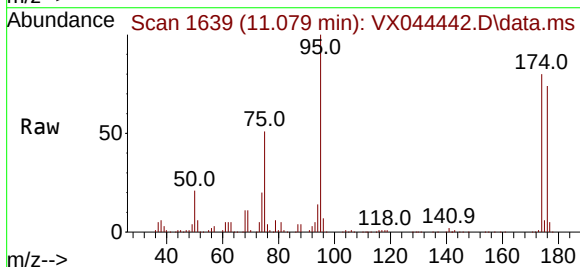
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

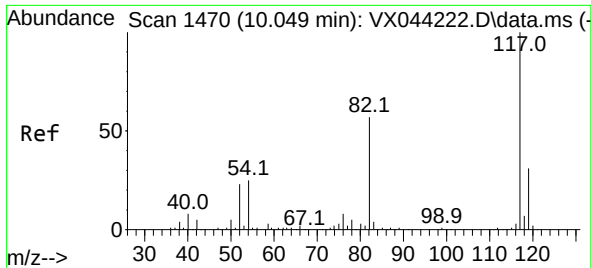
Tgt Ion:107 Resp: 34036
Ion Ratio Lower Upper
107 100
109 94.1 77.0 115.4



#62
4-Bromofluorobenzene
Concen: 48.620 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 95 Resp: 91791
Ion Ratio Lower Upper
95 100
174 78.8 0.0 145.8
176 76.3 0.0 137.8



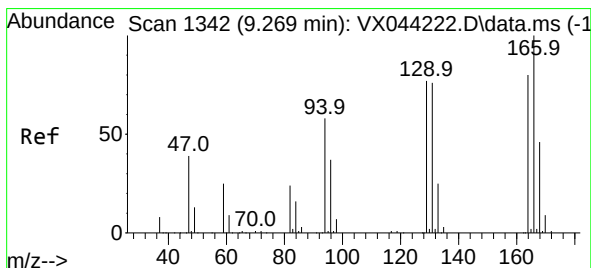
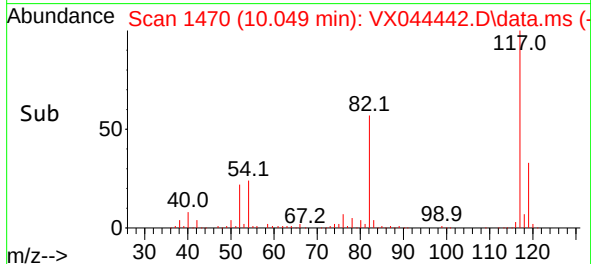
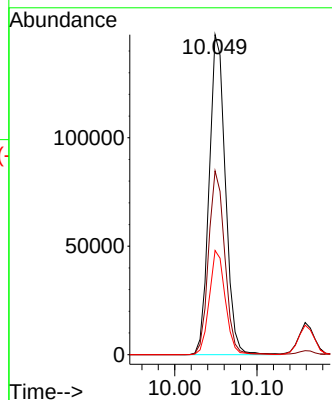
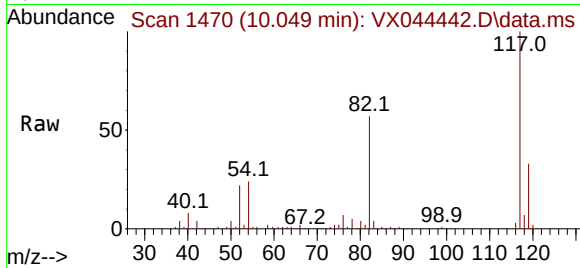


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

Tgt Ion:117 Resp: 202087

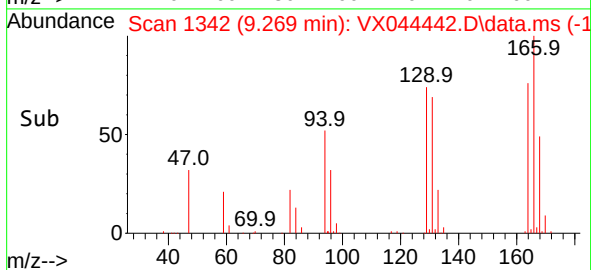
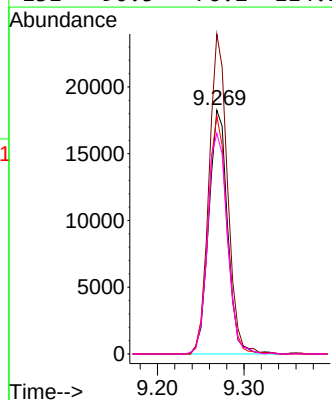
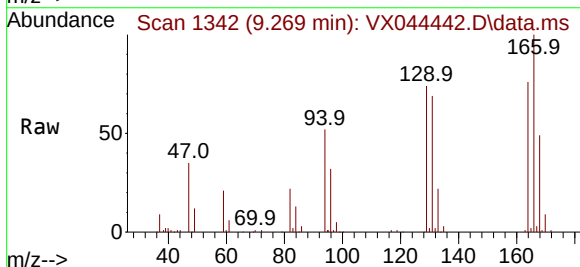
Ion	Ratio	Lower	Upper
117	100		
82	57.5	45.8	68.8
119	32.5	25.0	37.4

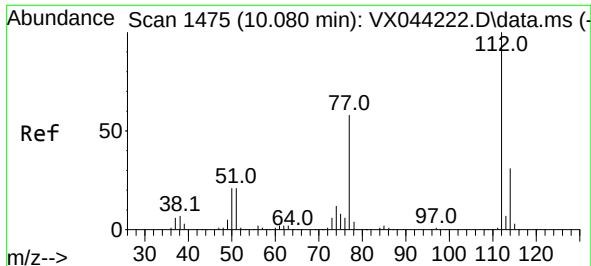


#64
Tetrachloroethene
Concen: 20.468 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion:164 Resp: 27454

Ion	Ratio	Lower	Upper
164	100		
166	131.3	100.4	150.6
129	97.6	77.2	115.8
131	90.5	76.2	114.2

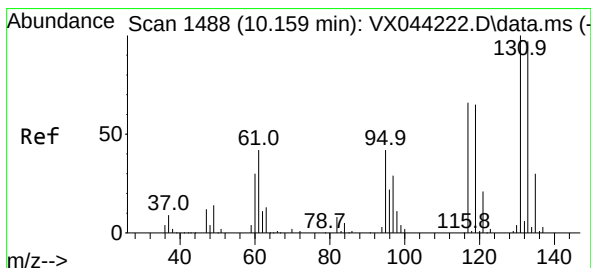
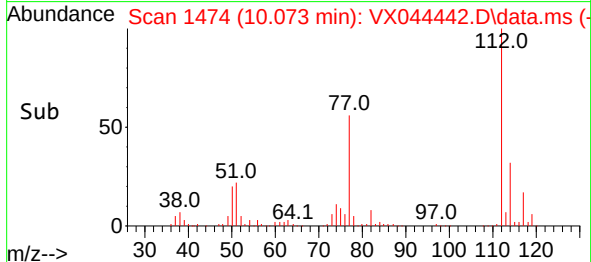
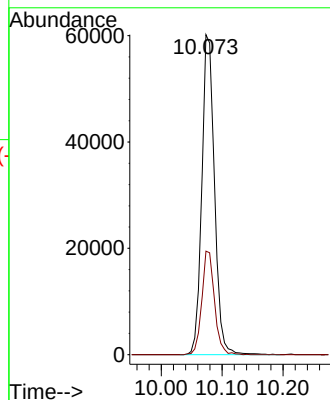
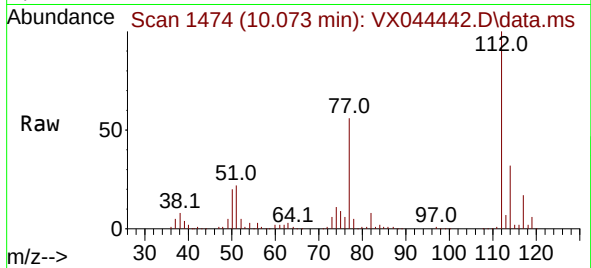




#65
Chlorobenzene
Concen: 20.171 ug/l
RT: 10.073 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

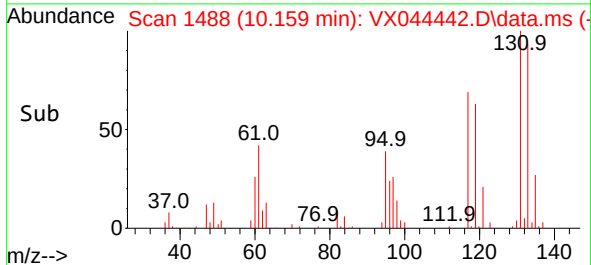
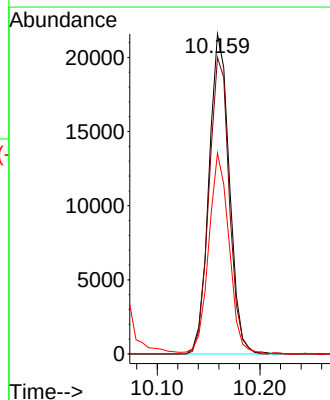
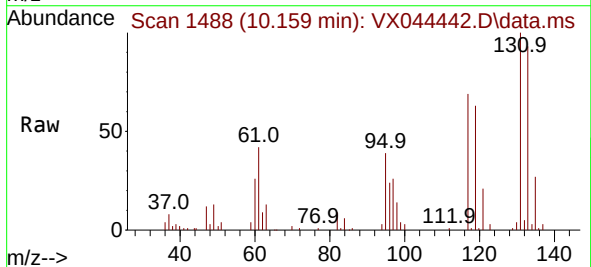
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

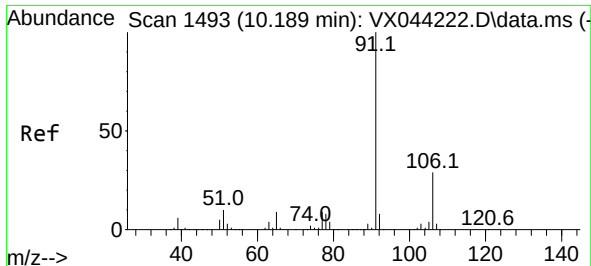
Tgt Ion:112 Resp: 87347
Ion Ratio Lower Upper
112 100
114 32.3 25.0 37.6



#66
1,1,1,2-Tetrachloroethane
Concen: 21.337 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion:131 Resp: 29694
Ion Ratio Lower Upper
131 100
133 92.2 47.3 141.8
119 62.6 31.6 95.0





#67

Ethyl Benzene

Concen: 19.520 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

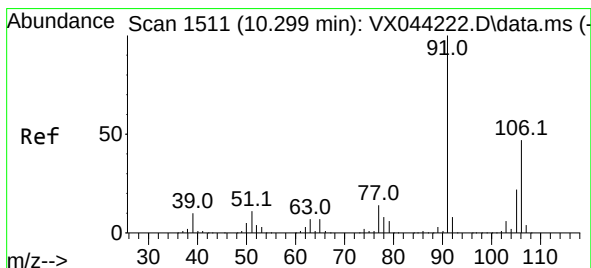
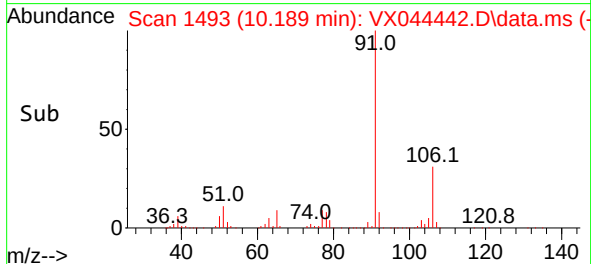
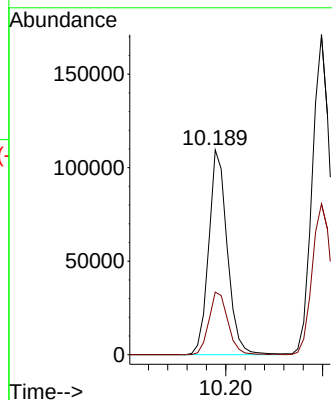
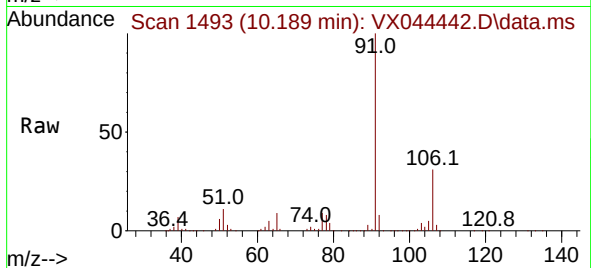
VX1220WBSD01

Tgt Ion: 91 Resp: 146051

Ion Ratio Lower Upper

91 100

106 30.6 23.5 35.3



#68

m/p-Xylenes

Concen: 41.220 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX044442.D

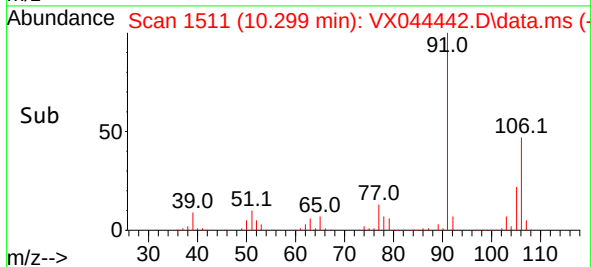
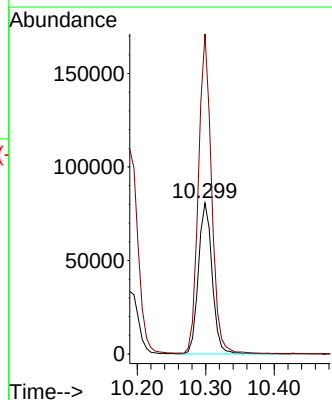
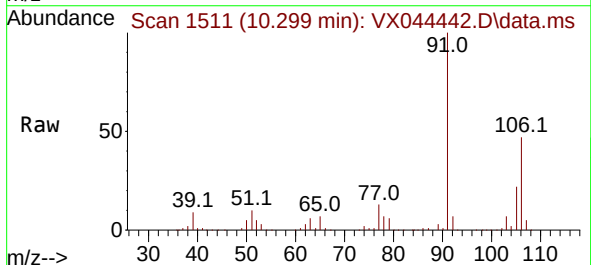
Acq: 20 Dec 2024 11:16

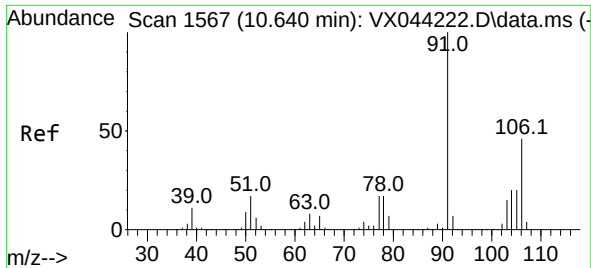
Tgt Ion: 106 Resp: 113167

Ion Ratio Lower Upper

106 100

91 202.0 170.2 255.2

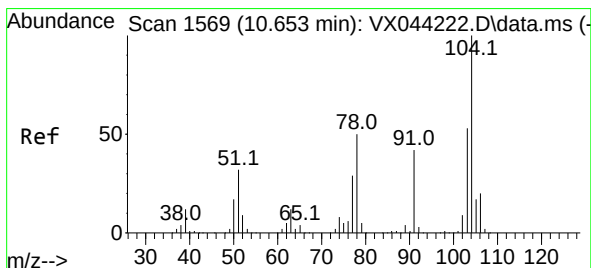
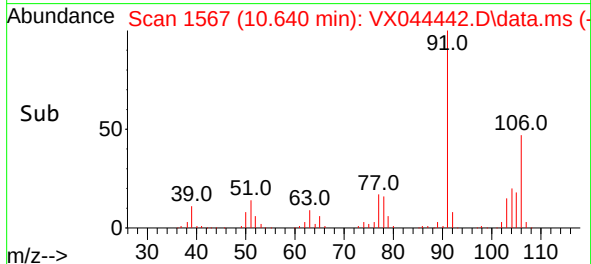
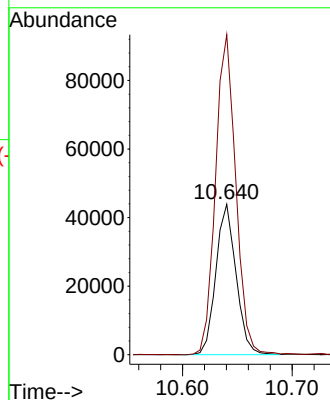
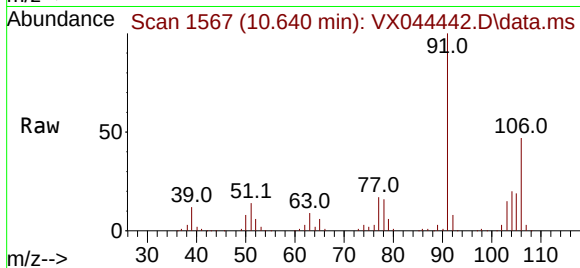




#69
o-Xylene
Concen: 20.223 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

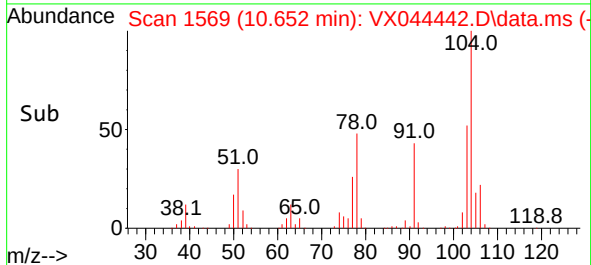
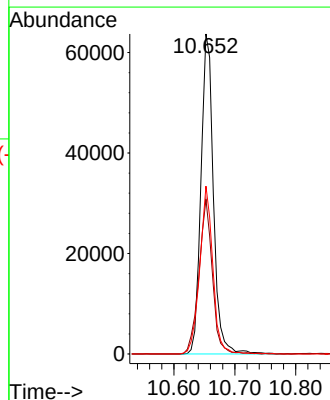
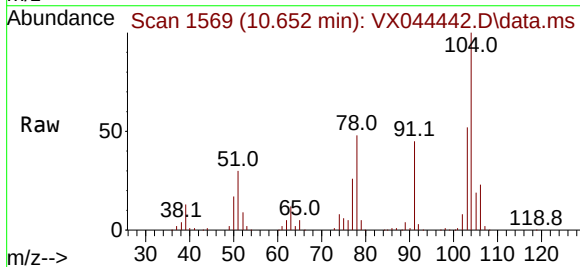
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

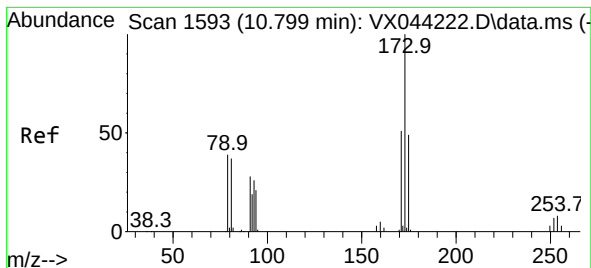
Tgt Ion:106 Resp: 56176
Ion Ratio Lower Upper
106 100
91 214.3 112.3 337.0



#70
Styrene
Concen: 20.436 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion:104 Resp: 91004
Ion Ratio Lower Upper
104 100
78 51.9 44.6 67.0
103 55.0 45.4 68.0





#71

Bromoform

Concen: 20.140 ug/l

RT: 10.799 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

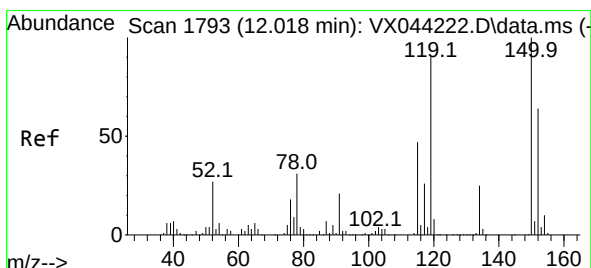
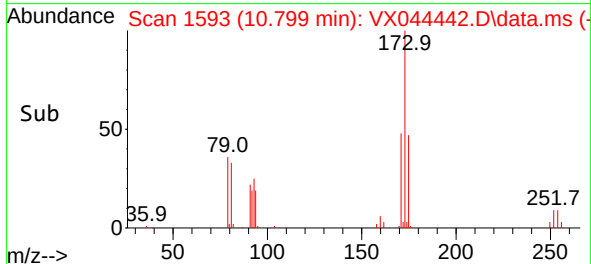
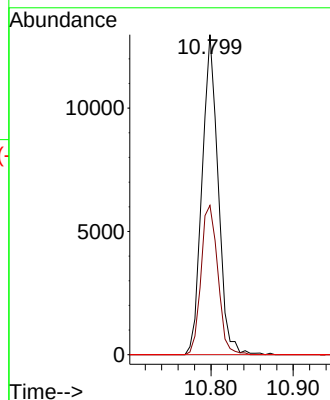
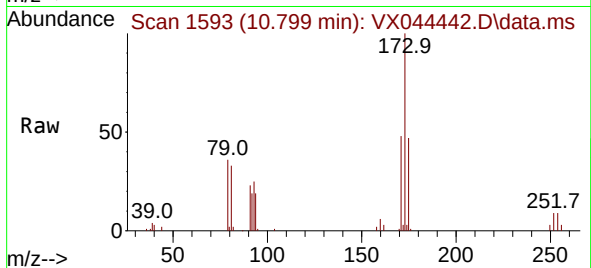
Tgt Ion:173 Resp: 17644

Ion Ratio Lower Upper

173 100

175 48.7 23.8 71.4

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

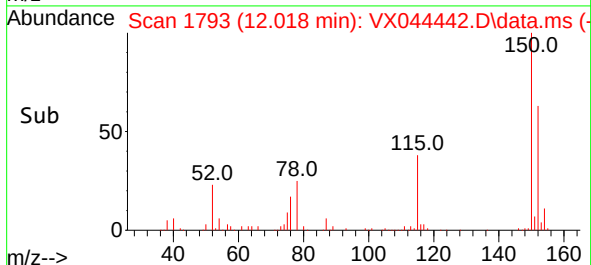
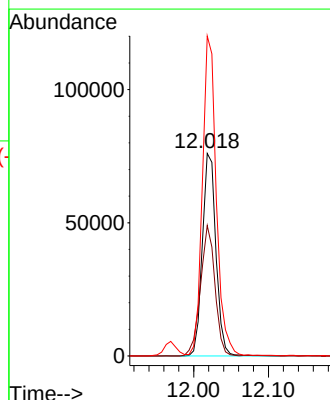
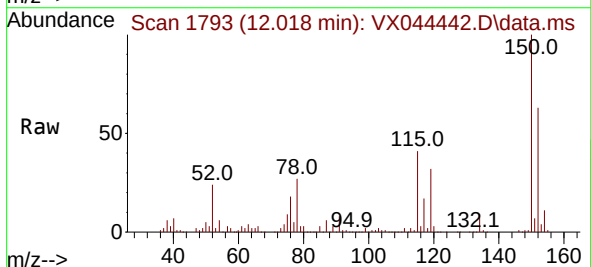
Tgt Ion:152 Resp: 96082

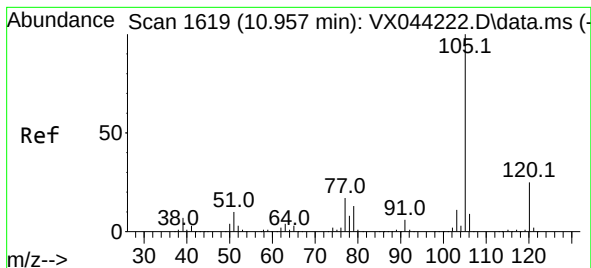
Ion Ratio Lower Upper

152 100

115 68.4 44.5 133.3

150 161.5 0.0 353.8





#73

Isopropylbenzene

Concen: 18.767 ug/l

RT: 10.963 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

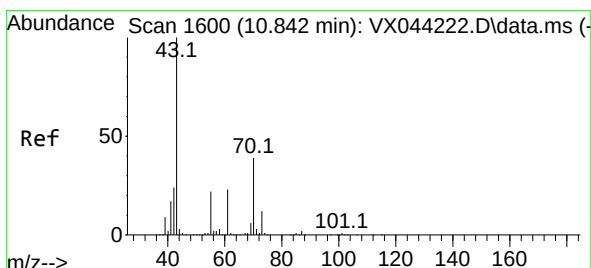
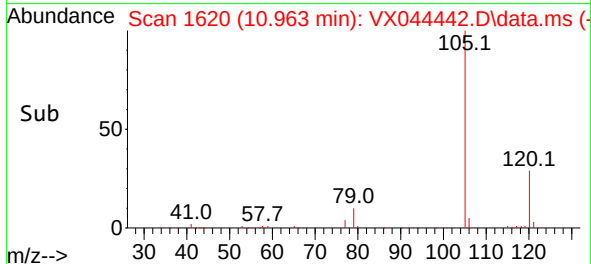
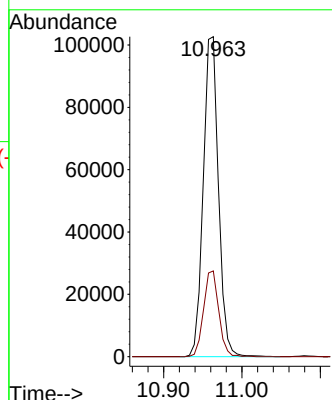
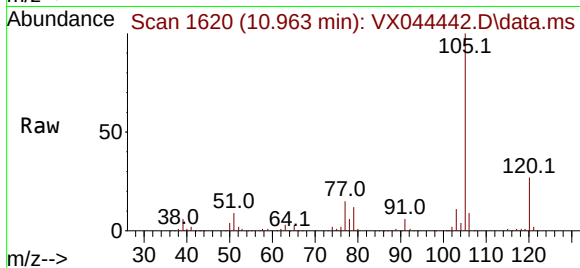
VX1220WBSD01

Tgt Ion:105 Resp: 138041

Ion Ratio Lower Upper

105 100

120 26.8 13.1 39.3



#74

N-ethyl acetate

Concen: 17.900 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Tgt Ion: 43 Resp: 60849

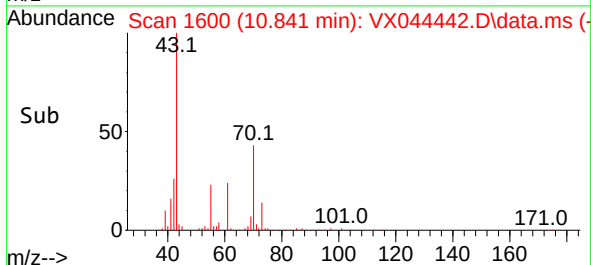
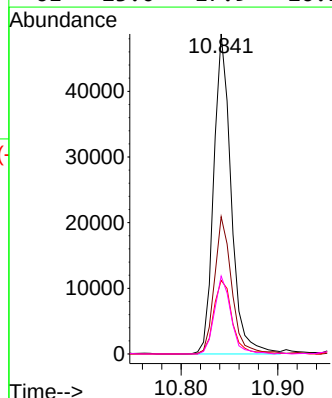
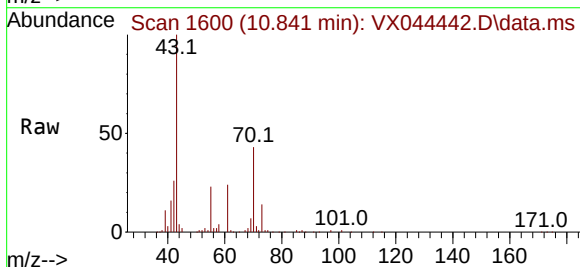
Ion Ratio Lower Upper

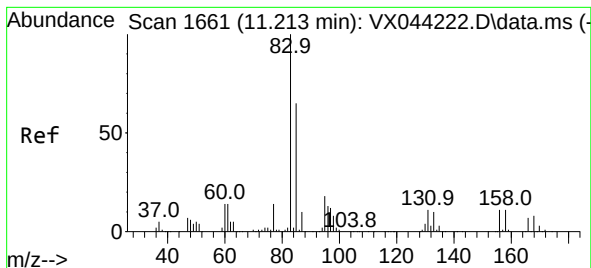
43 100

70 42.6 31.9 47.9

55 24.5 17.9 26.9

61 23.0 17.9 26.9

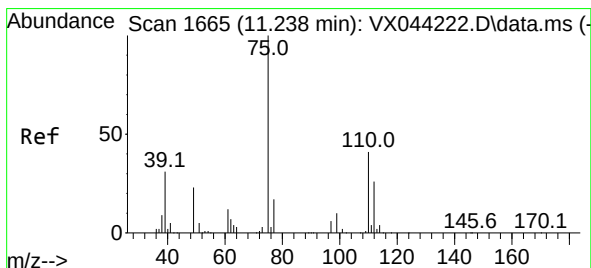
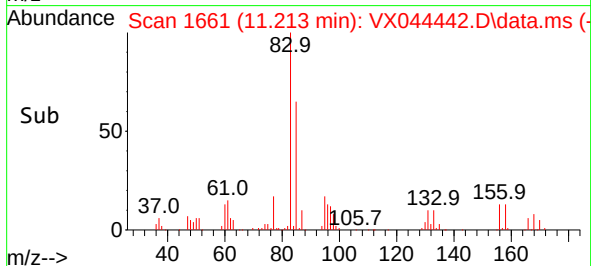
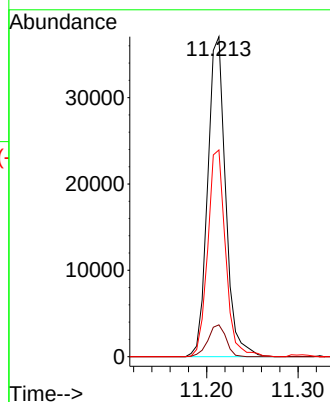
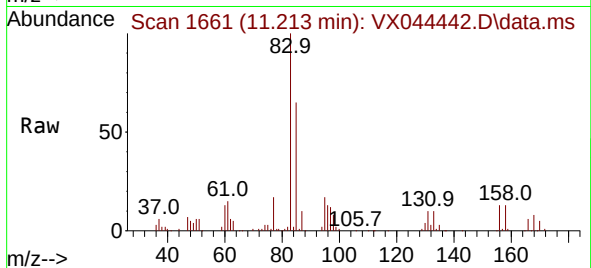




#75
1,1,2,2-Tetrachloroethane
Concen: 19.717 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

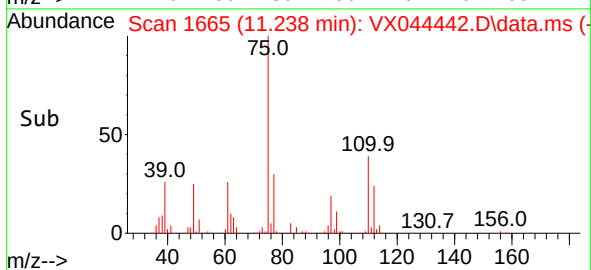
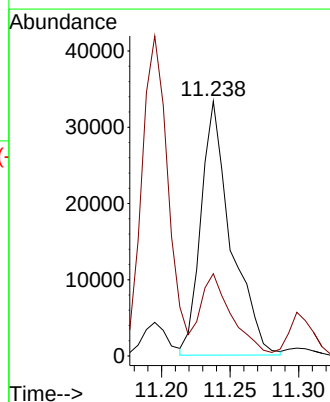
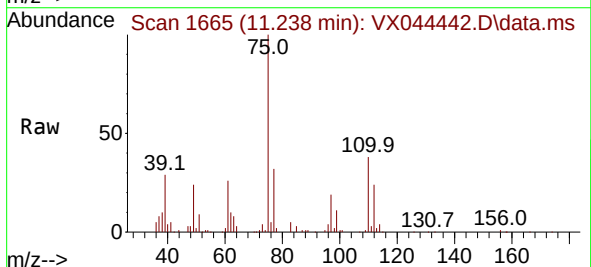
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

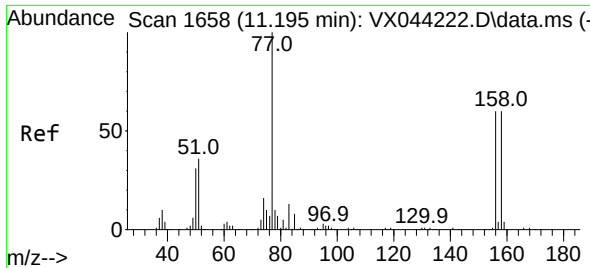
Tgt Ion: 83 Resp: 50373
Ion Ratio Lower Upper
83 100
131 10.0 5.1 15.4
85 64.2 32.5 97.4



#76
1,2,3-Trichloropropane
Concen: 23.728 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 75 Resp: 50904
Ion Ratio Lower Upper
75 100
77 33.9 20.9 62.7

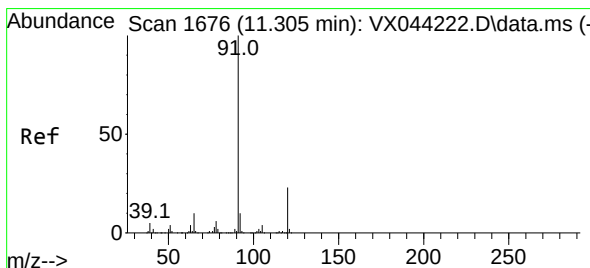
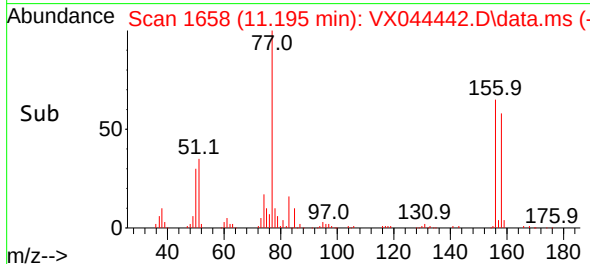
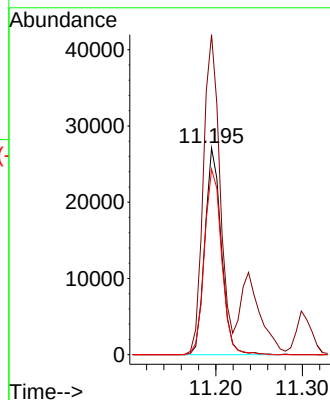
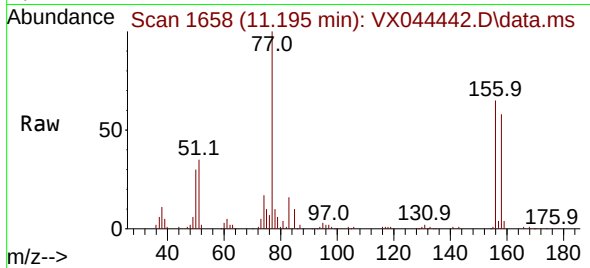




#77
Bromobenzene
Concen: 20.022 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

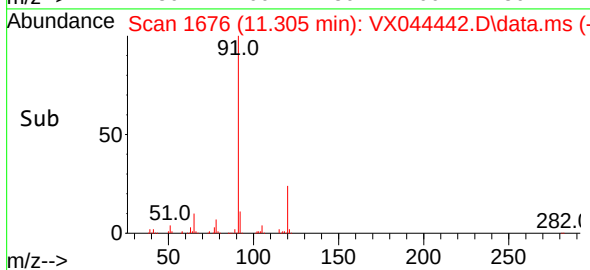
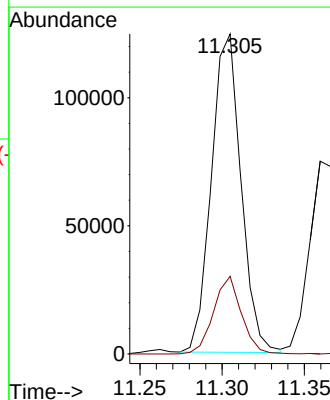
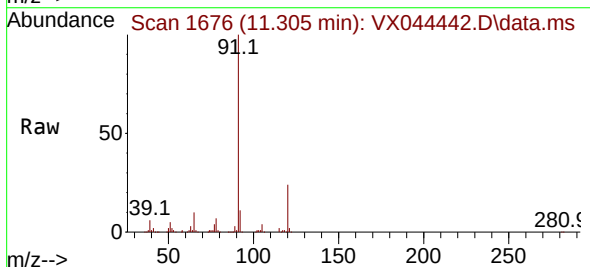
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

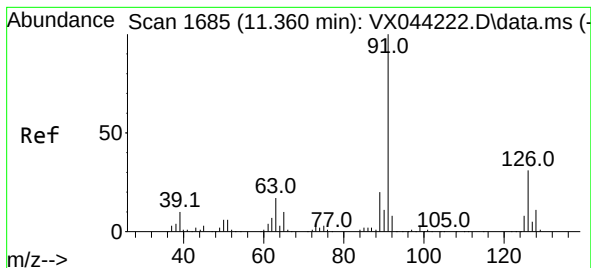
Tgt Ion:156 Resp: 35713
Ion Ratio Lower Upper
156 100
77 157.0 82.6 247.8
158 94.0 48.8 146.4



#78
n-propylbenzene
Concen: 19.128 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 91 Resp: 155505
Ion Ratio Lower Upper
91 100
120 23.0 11.0 33.0

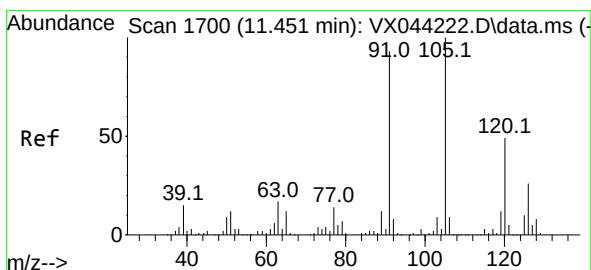
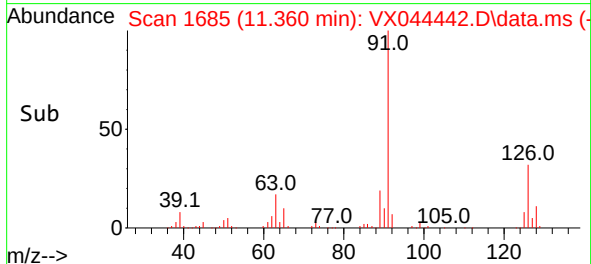
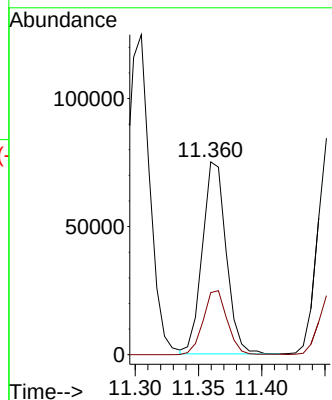
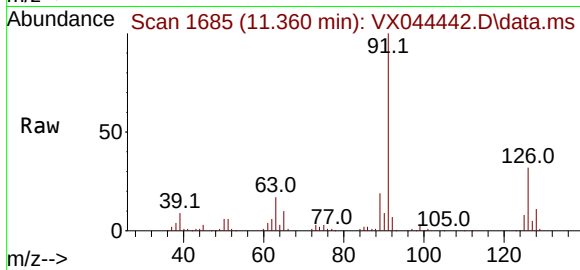




#79
2-Chlorotoluene
Concen: 18.716 ug/l
RT: 11.360 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

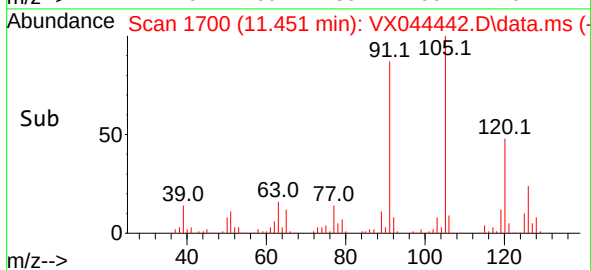
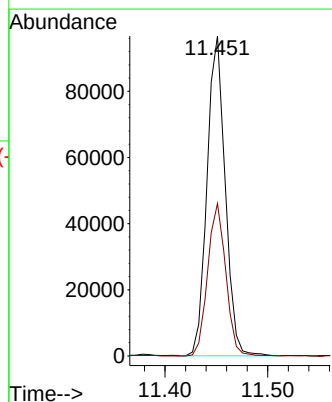
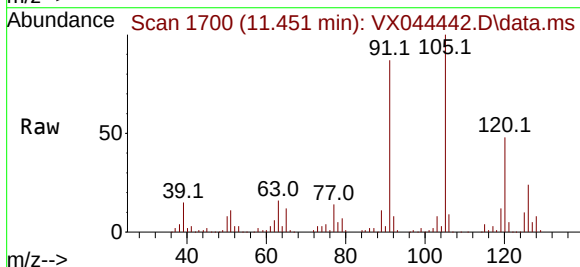
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

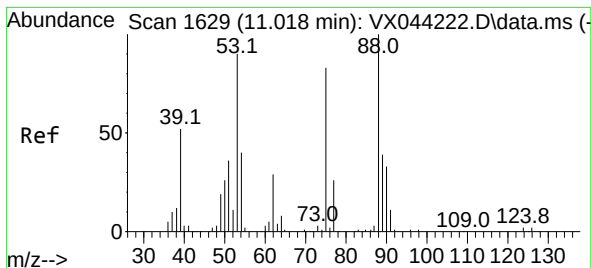
Tgt Ion: 91 Resp: 98404
Ion Ratio Lower Upper
91 100
126 33.7 16.4 49.1



#80
1,3,5-Trimethylbenzene
Concen: 19.444 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 105 Resp: 118602
Ion Ratio Lower Upper
105 100
120 47.6 23.8 71.4

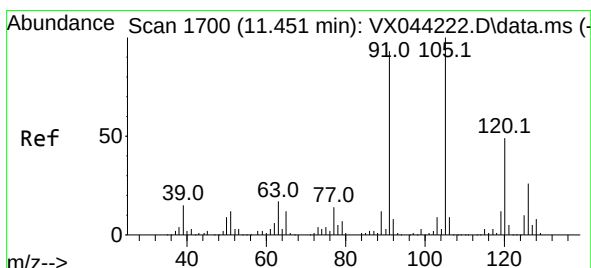
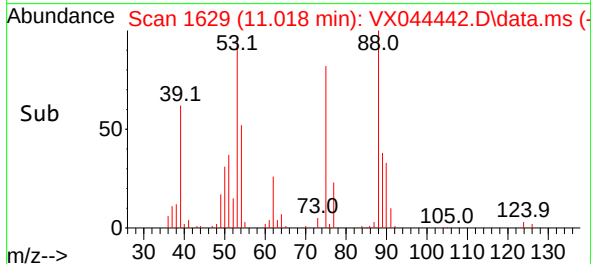
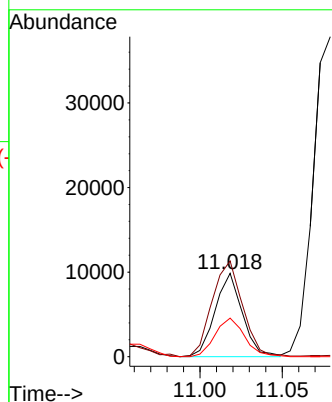
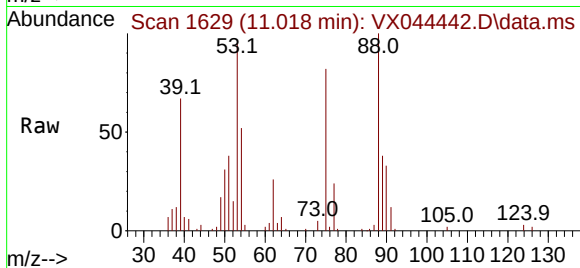




#81
trans-1,4-Dichloro-2-butene
Concen: 19.096 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

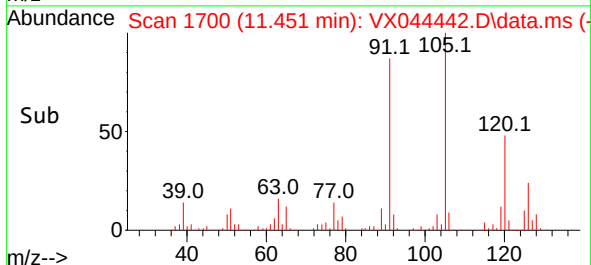
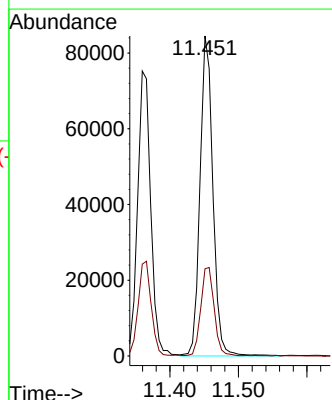
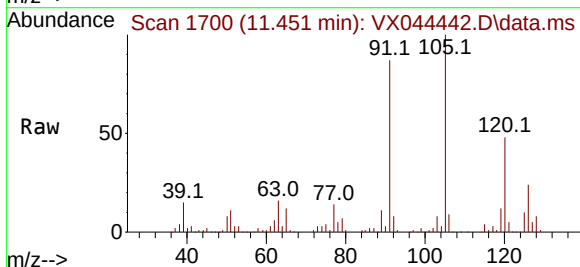
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

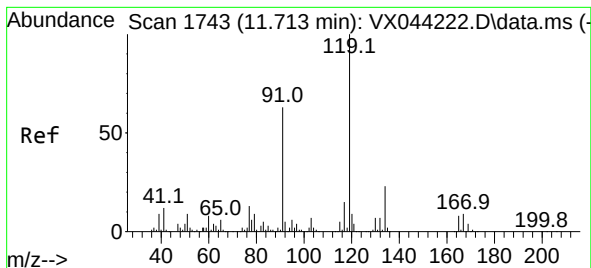
Tgt Ion: 75 Resp: 11391
Ion Ratio Lower Upper
75 100
53 128.2 93.6 140.4
89 49.9 37.3 55.9



#82
4-Chlorotoluene
Concen: 19.006 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 91 Resp: 110656
Ion Ratio Lower Upper
91 100
126 28.5 14.5 43.5

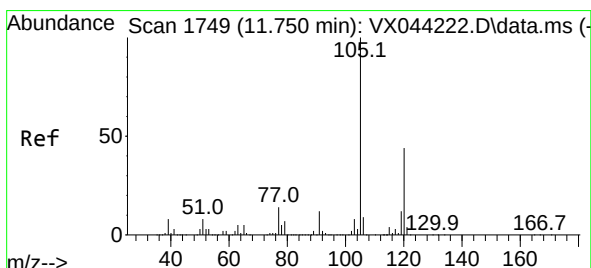
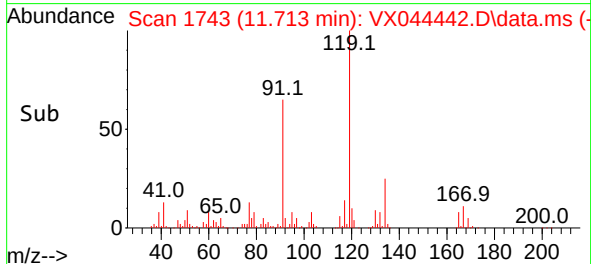
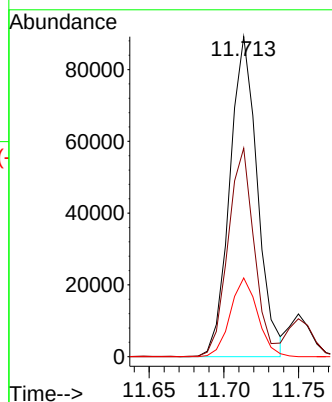
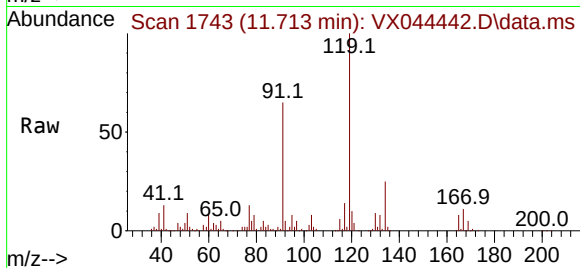




#83
tert-Butylbenzene
Concen: 18.997 ug/l
RT: 11.713 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

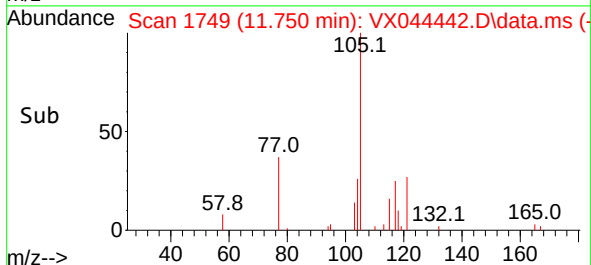
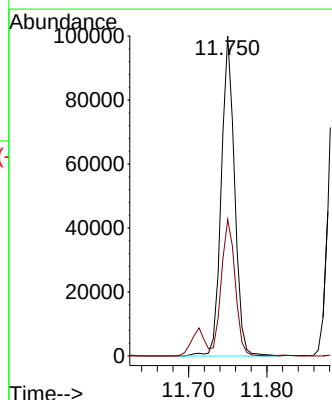
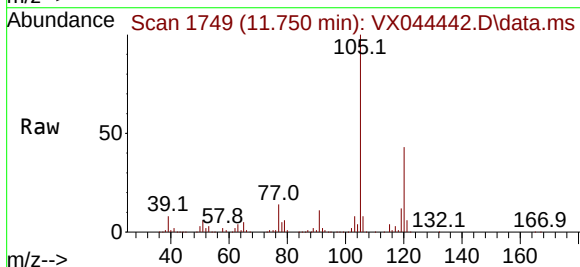
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

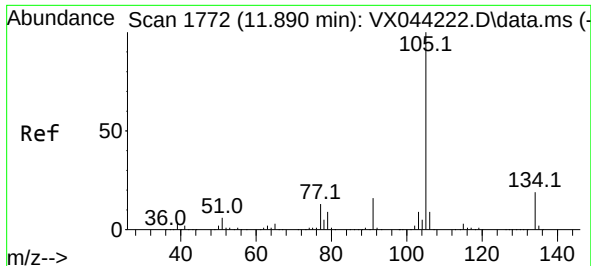
Tgt Ion:119 Resp: 114519
Ion Ratio Lower Upper
119 100
91 62.5 30.9 92.5
134 24.4 11.5 34.4



#84
1,2,4-Trimethylbenzene
Concen: 19.828 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion:105 Resp: 118782
Ion Ratio Lower Upper
105 100
120 44.4 21.7 65.1

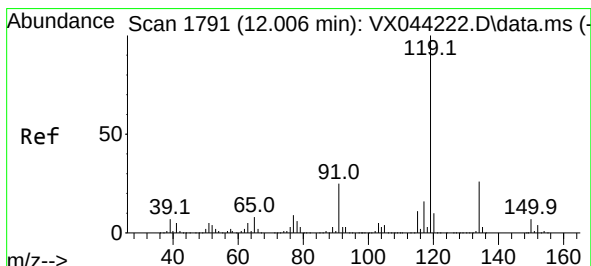
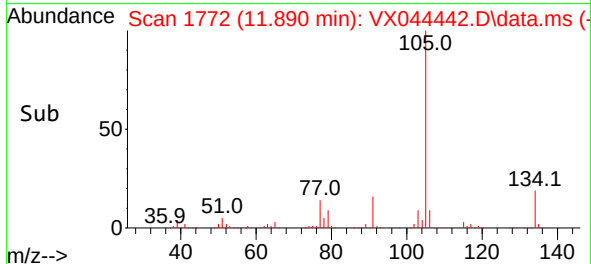
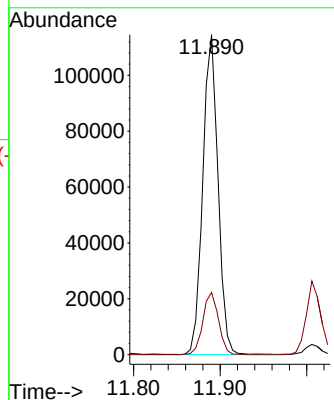
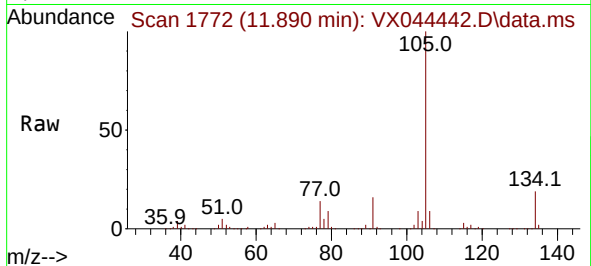




#85
 sec-Butylbenzene
 Concen: 19.072 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. -0.000 min
 Lab File: VX044442.D
 Acq: 20 Dec 2024 11:16

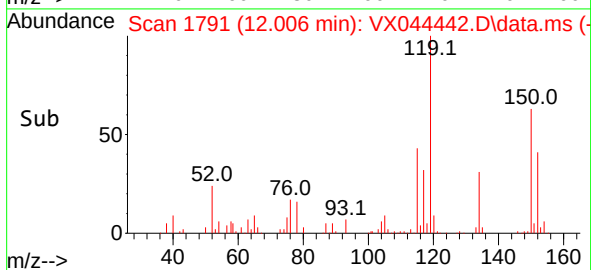
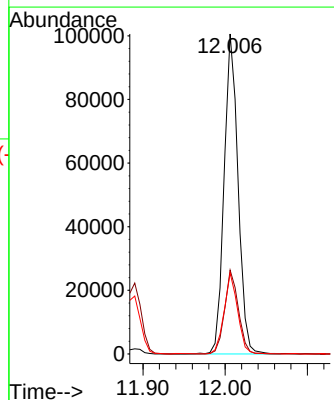
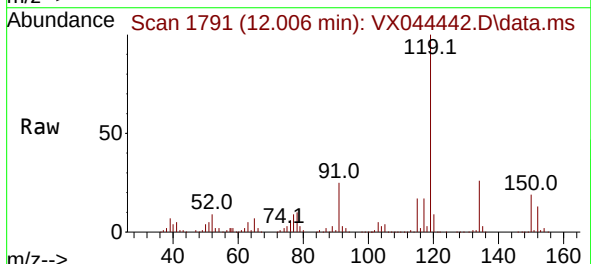
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1220WBSD01

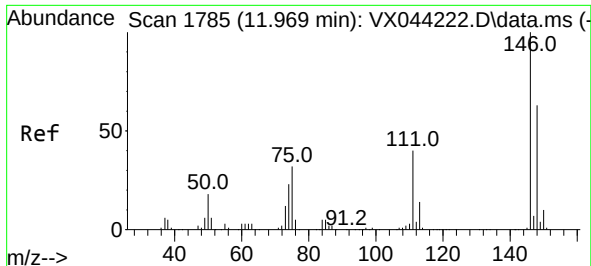
Tgt Ion:105 Resp: 139575
 Ion Ratio Lower Upper
 105 100
 134 20.0 9.8 29.4



#86
 p-Isopropyltoluene
 Concen: 19.427 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. -0.000 min
 Lab File: VX044442.D
 Acq: 20 Dec 2024 11:16

Tgt Ion:119 Resp: 118332
 Ion Ratio Lower Upper
 119 100
 134 26.0 12.8 38.4
 91 24.6 13.0 39.0





#87

1,3-Dichlorobenzene

Concen: 20.156 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX044442.D

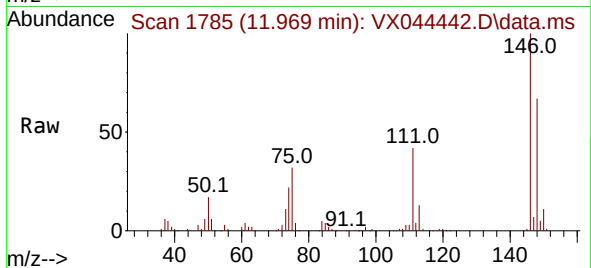
Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01



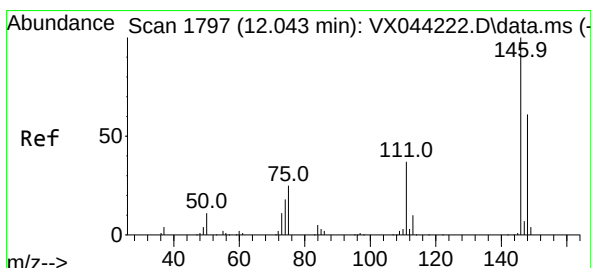
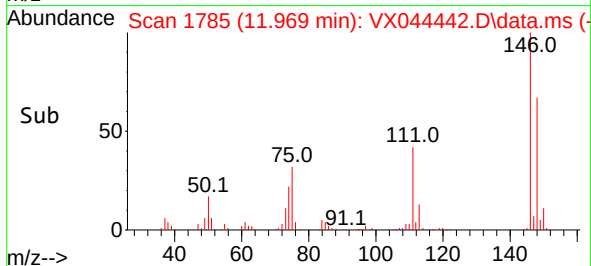
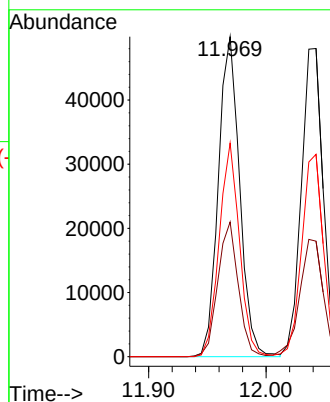
Tgt Ion:146 Resp: 62799

Ion Ratio Lower Upper

146 100

111 40.5 21.4 64.2

148 63.8 31.7 95.1



#88

1,4-Dichlorobenzene

Concen: 19.716 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

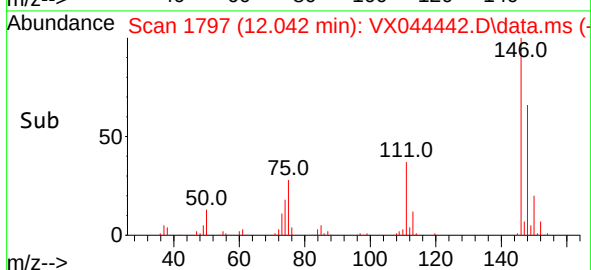
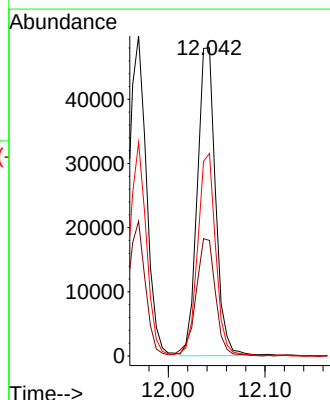
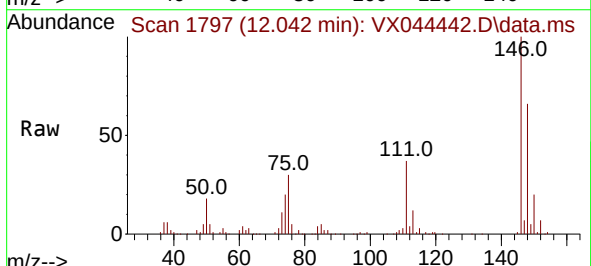
Tgt Ion:146 Resp: 63145

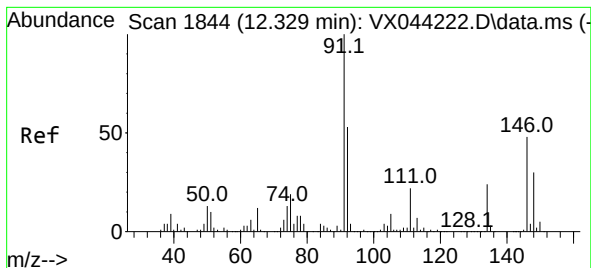
Ion Ratio Lower Upper

146 100

111 40.9 21.0 63.0

148 64.7 32.3 96.8





#89

n-Butylbenzene

Concen: 18.510 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

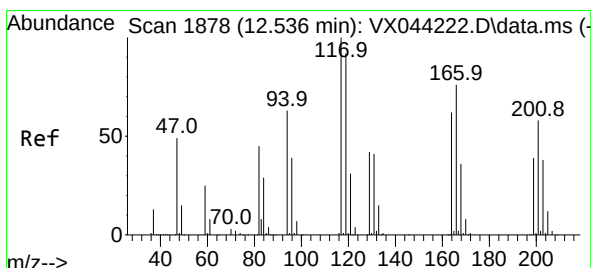
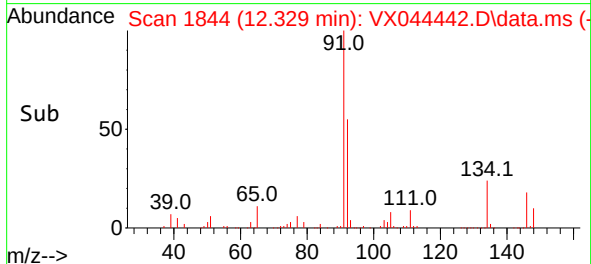
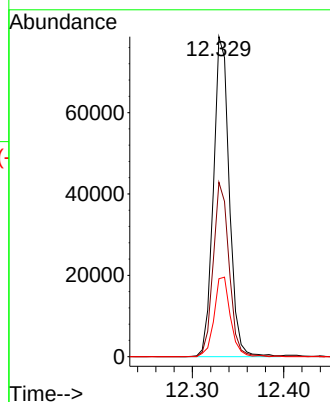
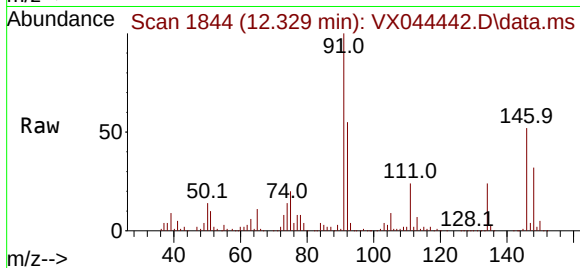
Tgt Ion: 91 Resp: 94807

Ion Ratio Lower Upper

91 100

92 54.5 26.6 79.7

134 25.7 12.6 37.8



#90

Hexachloroethane

Concen: 18.101 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX044442.D

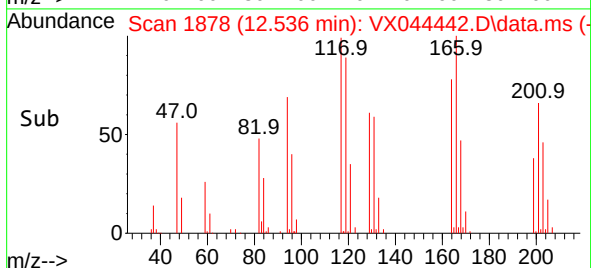
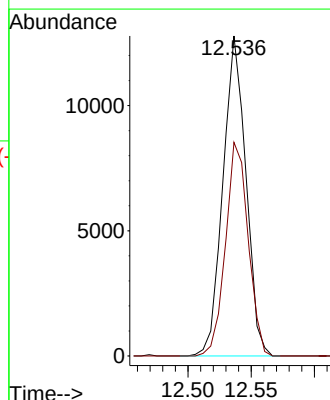
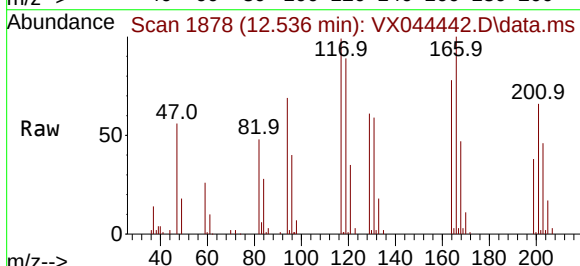
Acq: 20 Dec 2024 11:16

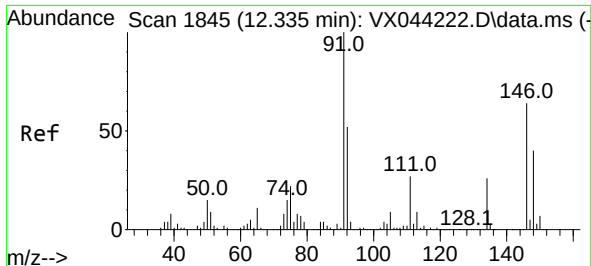
Tgt Ion: 117 Resp: 16094

Ion Ratio Lower Upper

117 100

201 66.0 31.4 94.2

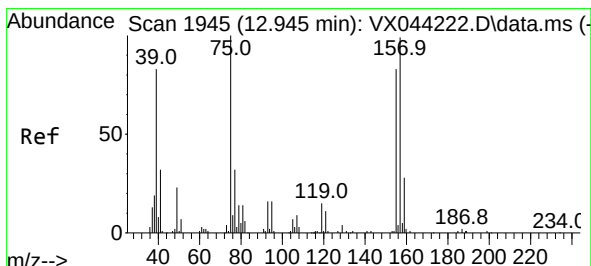
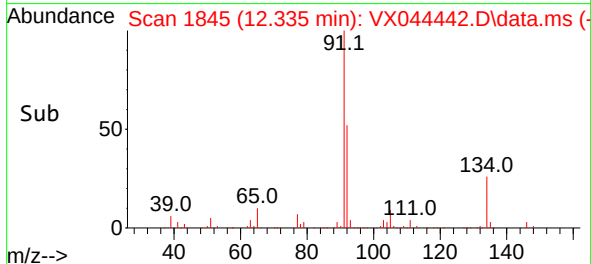
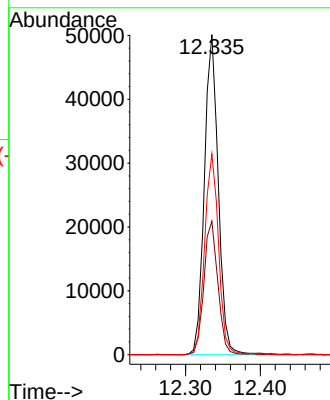
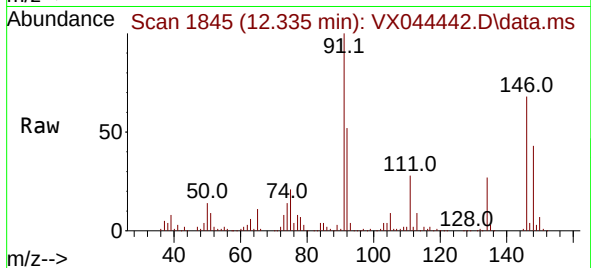




#91
1,2-Dichlorobenzene
Concen: 20.047 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

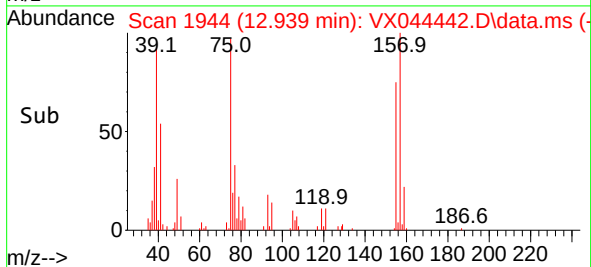
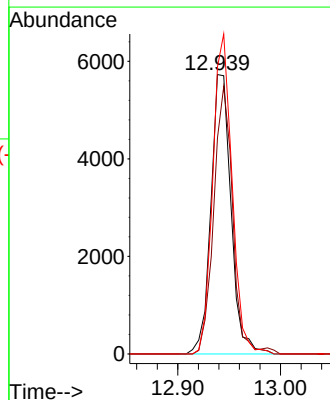
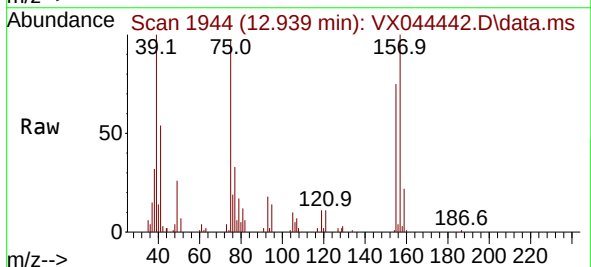
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

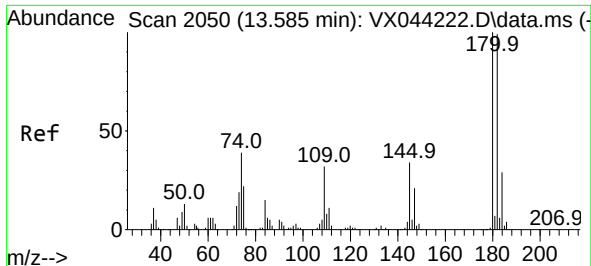
Tgt Ion:146 Resp: 64853
Ion Ratio Lower Upper
146 100
111 41.9 21.4 64.3
148 62.4 31.6 95.0



#92
1,2-Dibromo-3-Chloropropane
Concen: 15.738 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion: 75 Resp: 7805
Ion Ratio Lower Upper
75 100
155 90.1 38.1 114.3
157 109.9 47.2 141.6

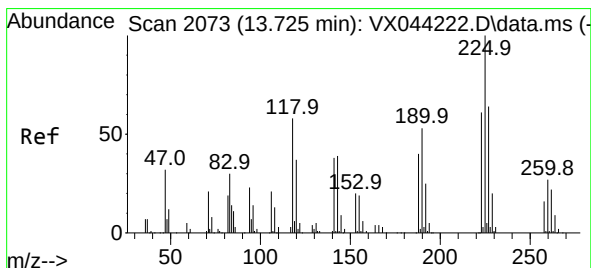
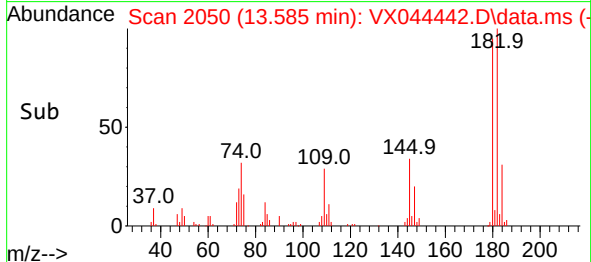
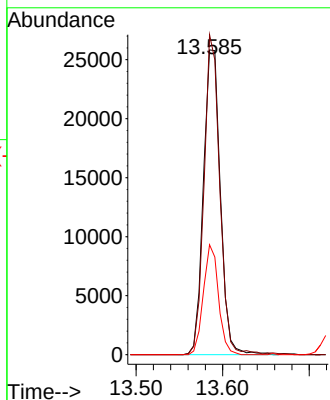
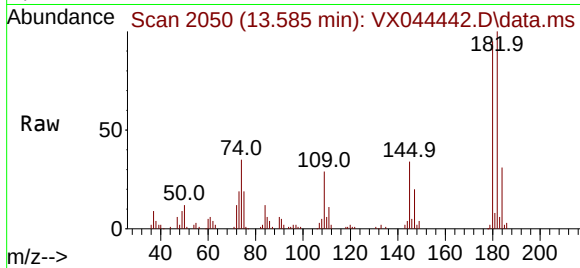




#93
1,2,4-Trichlorobenzene
Concen: 19.838 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

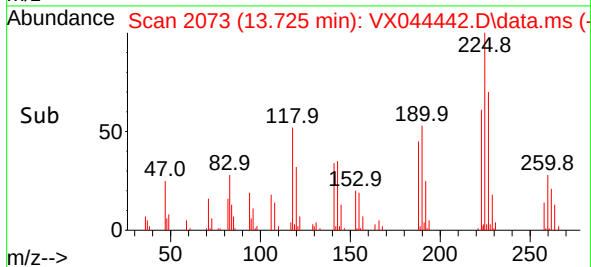
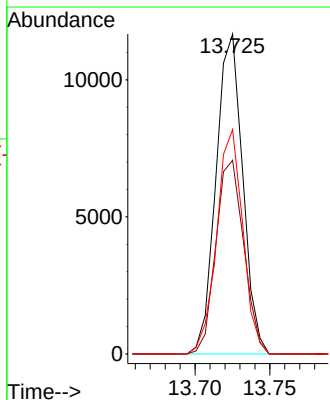
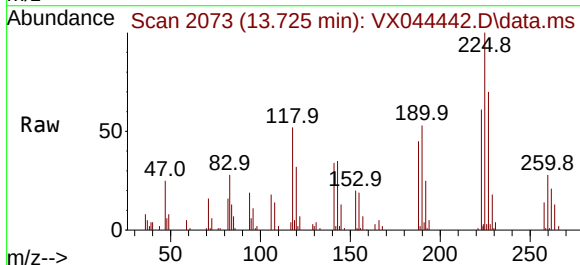
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBSD01

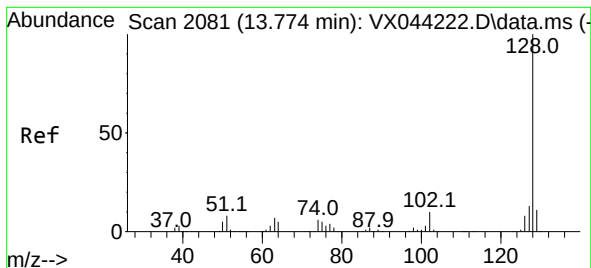
Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.1	48.0	144.2
145	32.1	16.6	49.7



#94
Hexachlorobutadiene
Concen: 20.297 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044442.D
Acq: 20 Dec 2024 11:16

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.2	30.8	92.4
227	68.5	32.1	96.3





#95

Naphthalene

Concen: 18.828 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX1220WBSD01

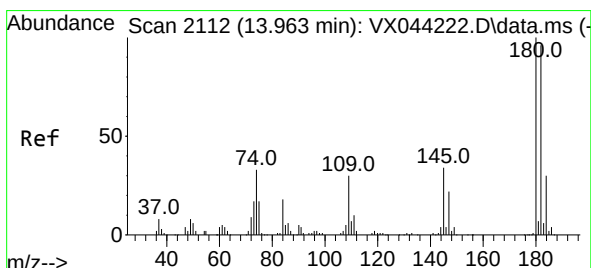
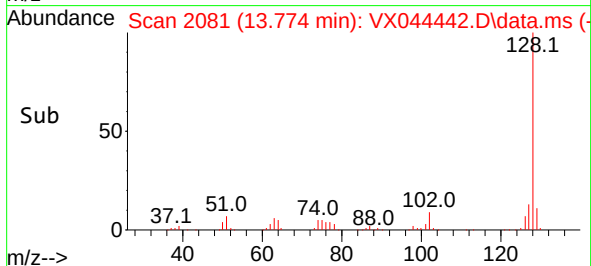
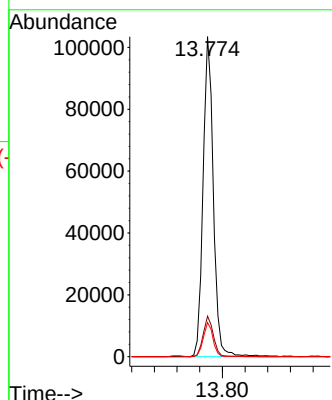
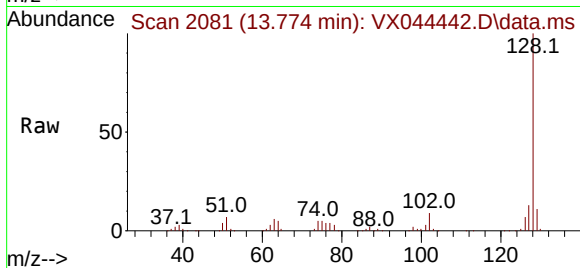
Tgt Ion:128 Resp: 130346

Ion Ratio Lower Upper

128 100

127 12.5 10.5 15.7

129 10.0 9.0 13.4



#96

1,2,3-Trichlorobenzene

Concen: 19.524 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. -0.000 min

Lab File: VX044442.D

Acq: 20 Dec 2024 11:16

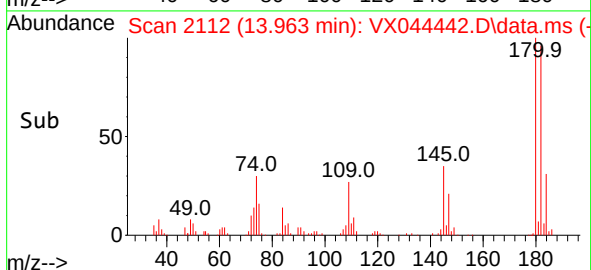
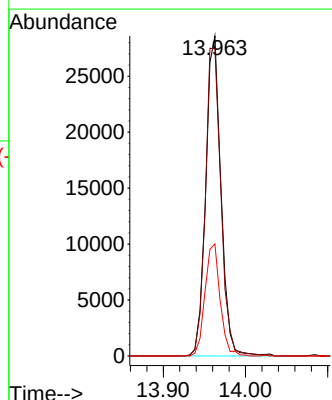
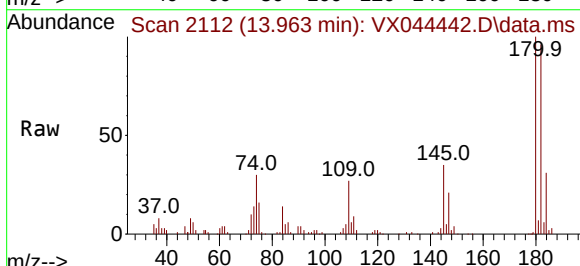
Tgt Ion:180 Resp: 36727

Ion Ratio Lower Upper

180 100

182 98.4 48.0 144.0

145 34.9 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
 Data File : VX044447.D
 Acq On : 20 Dec 2024 13:13
 Operator : JC/MD
 Sample : P5314-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-190A-GW-678-680

Quant Time: Dec 20 14:08:44 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:28:14 2024
 Response via : Initial Calibration

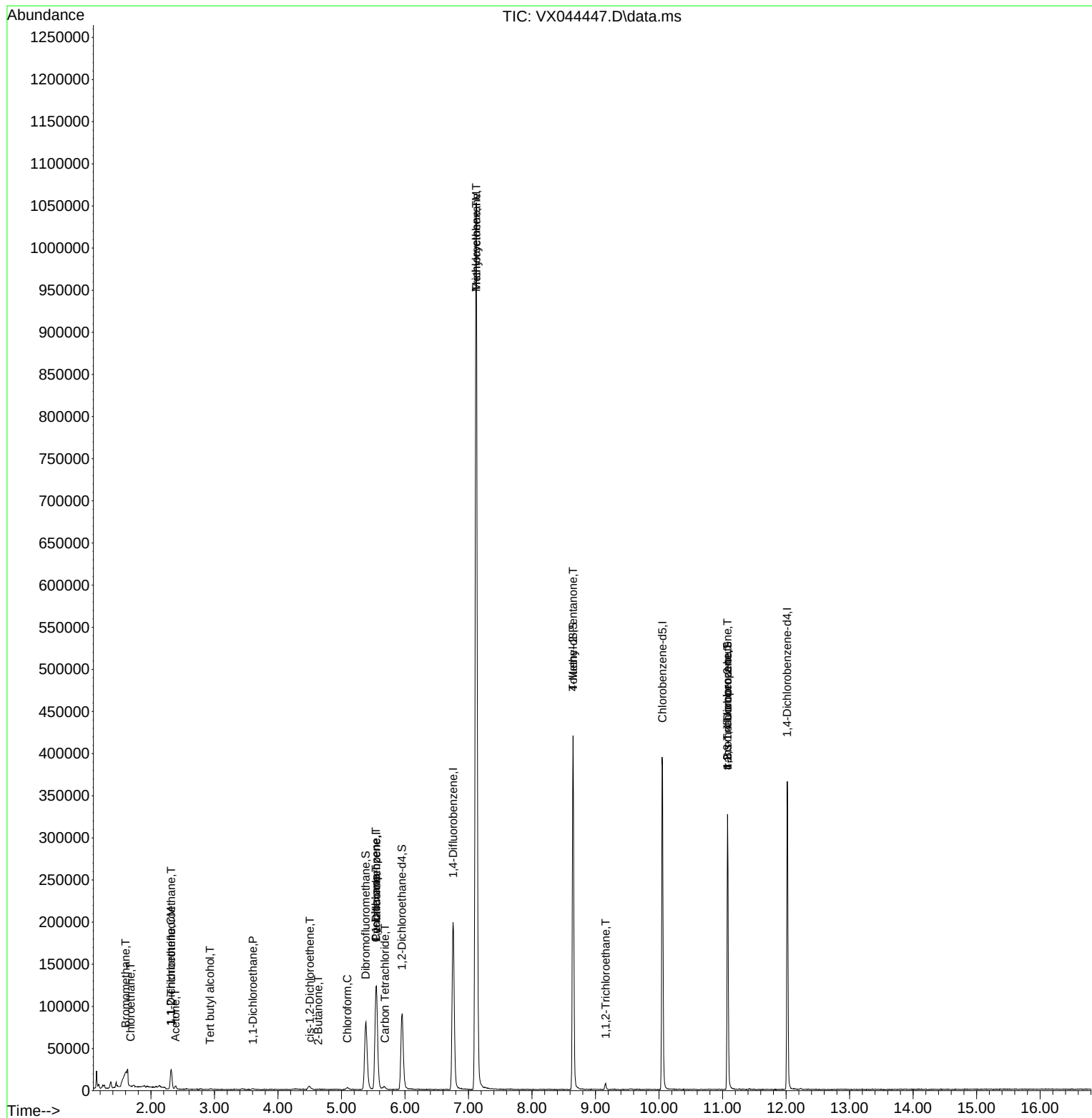
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	116922	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	205157	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	179312	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	74123	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	87608	42.735	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	85.480%
35) Dibromofluoromethane	5.379	113	68550	48.244	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.480%
50) Toluene-d8	8.647	98	246944	51.514	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.020%
62) 4-Bromofluorobenzene	11.079	95	83804	50.031	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	100.060%
Target Compounds						
					Qvalue	
5) Bromomethane	1.599	94	401	0.314	ug/l #	3
6) Chloroethane	1.678	64	253	0.226	ug/l #	41
9) 1,1,2-Trichlorotrifluo...	2.319	101	7662	5.370	ug/l	96
11) Tert butyl alcohol	2.928	59	229	0.793	ug/l #	71
12) 1,1-Dichloroethene	2.312	96	1852	1.413	ug/l #	77
16) Acetone	2.386	43	4141	4.955	ug/l	91
24) 1,1-Dichloroethane	3.605	63	1238	0.452	ug/l #	82
25) 2-Butanone	4.635	43	507	0.427	ug/l #	50
27) cis-1,2-Dichloroethene	4.501	96	1641	0.928	ug/l	60
30) Chloroform	5.092	83	2628	0.854	ug/l #	79
31) Cyclohexane	5.544	56	3273	1.479	ug/l #	58
36) 1,1-Dichloropropene	5.544	75	10057	5.476	ug/l #	47
38) Carbon Tetrachloride	5.684	117	2826	1.429	ug/l #	73
39) Methylcyclohexane	7.123	83	5336	2.430	ug/l #	1
44) Trichloroethene	7.123	130	401769	288.909	ug/l	97
51) 4-Methyl-2-Pentanone	8.647	43	1048	0.459	ug/l #	1
55) 1,1,2-Trichloroethane	9.159	97	1835	1.319	ug/l #	80
76) 1,2,3-Trichloropropane	11.079	75	44884	27.120	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	44884	74.622	ug/l #	4

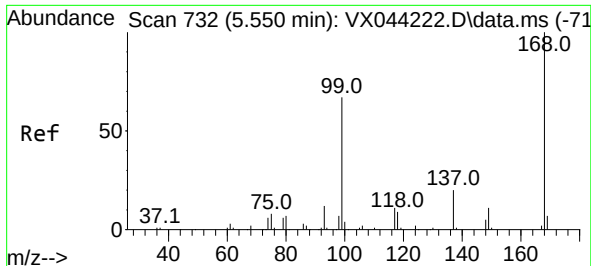
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044447.D
Acq On : 20 Dec 2024 13:13
Operator : JC/MD
Sample : P5314-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680

Quant Time: Dec 20 14:08:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

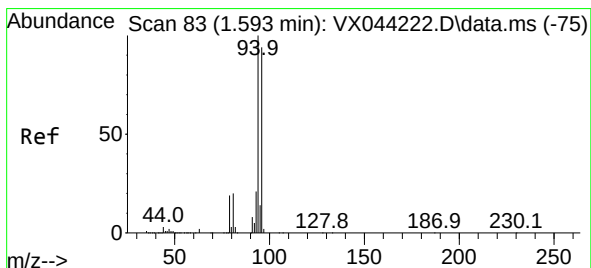
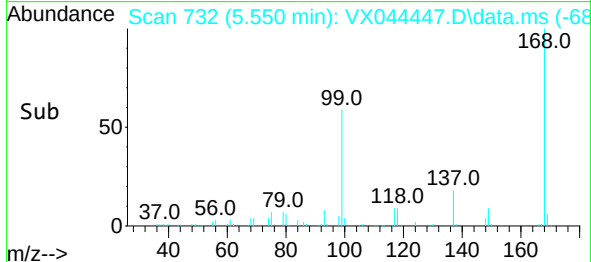
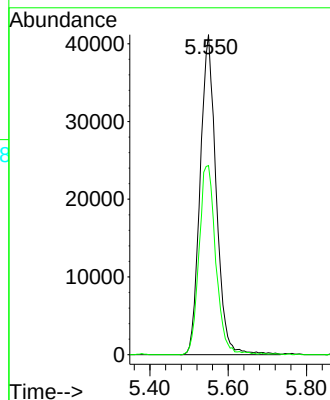
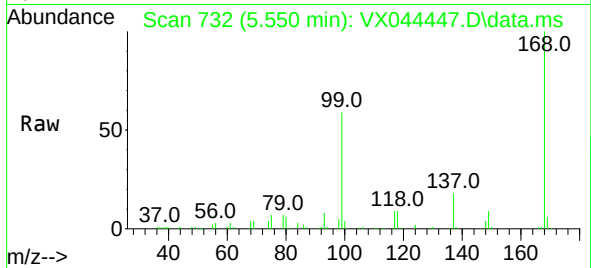




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

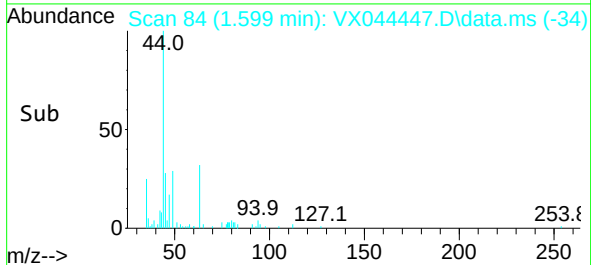
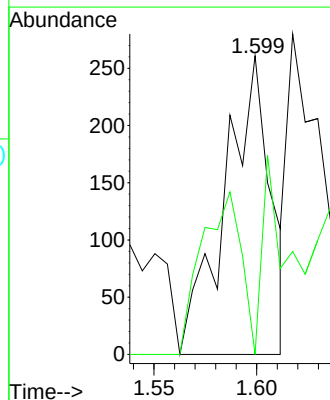
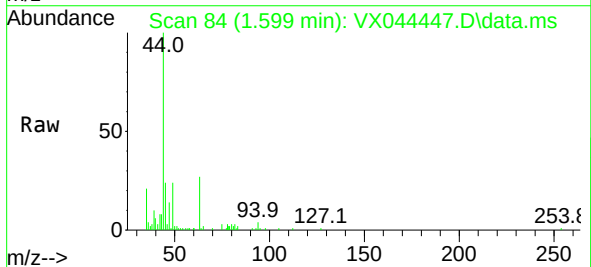
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680

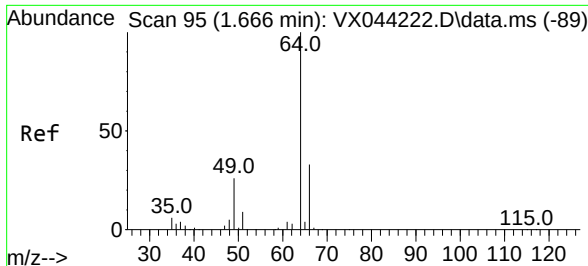
Tgt Ion:168 Resp: 116922
Ion Ratio Lower Upper
168 100
99 59.1 53.4 80.0



#5
Bromomethane
Concen: 0.314 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

Tgt Ion: 94 Resp: 401
Ion Ratio Lower Upper
94 100
96 0.0 74.9 112.3#

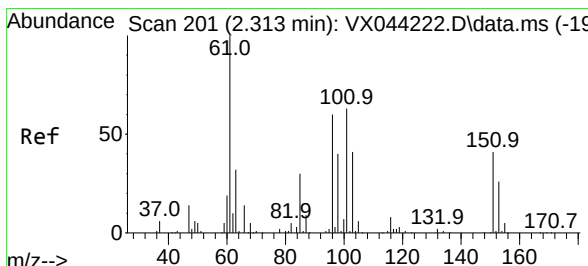
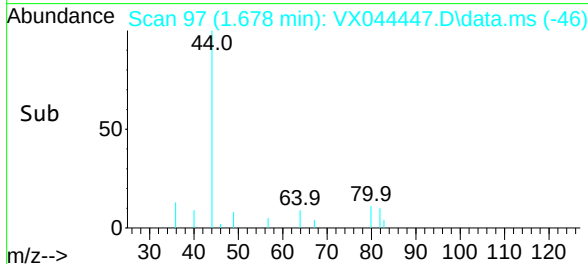
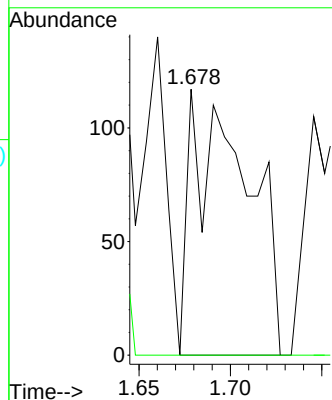
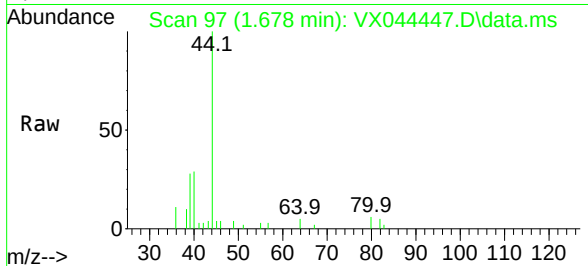




#6
Chloroethane
Concen: 0.226 ug/l
RT: 1.678 min Scan# 91
Delta R.T. 0.012 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

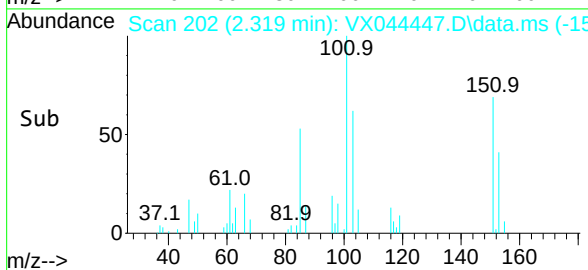
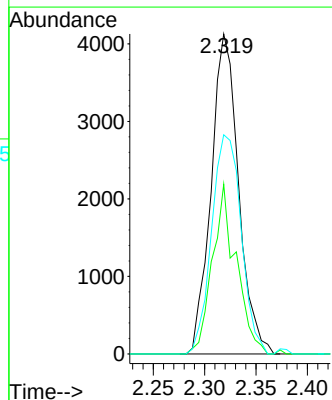
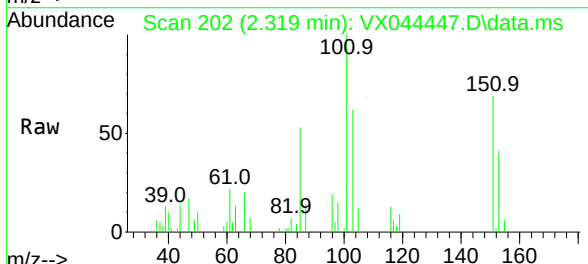
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680

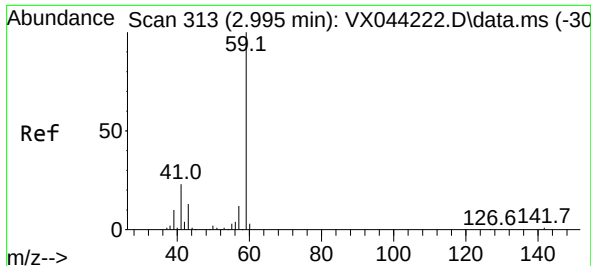
Tgt Ion: 64 Resp: 253
Ion Ratio Lower Upper
64 100
66 0.0 26.6 39.8#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.370 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

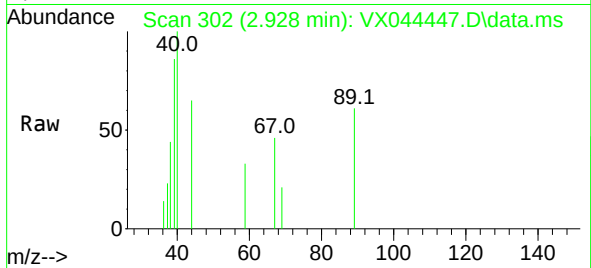
Tgt Ion: 101 Resp: 7662
Ion Ratio Lower Upper
101 100
85 46.0 38.5 57.7
151 74.0 55.8 83.6



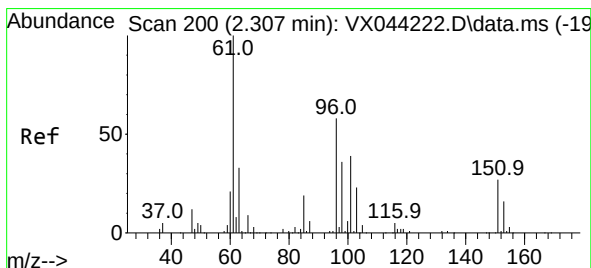
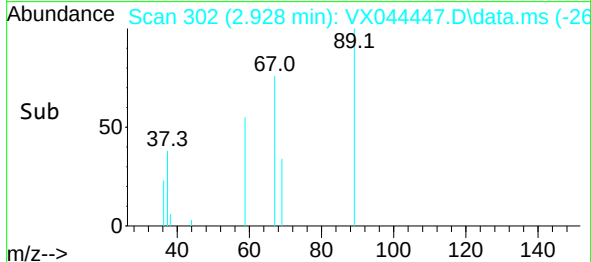
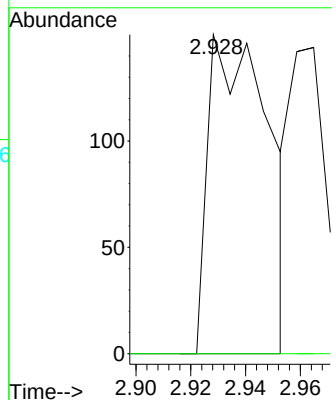


#11
Tert butyl alcohol
Concen: 0.793 ug/l
RT: 2.928 min Scan# 30
Delta R.T. -0.067 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680

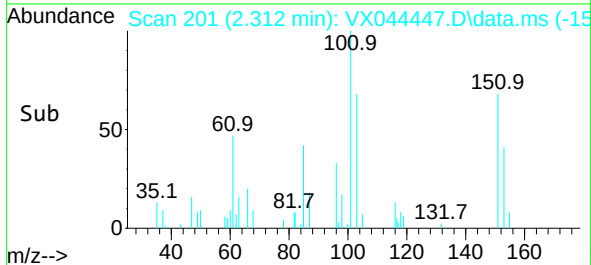
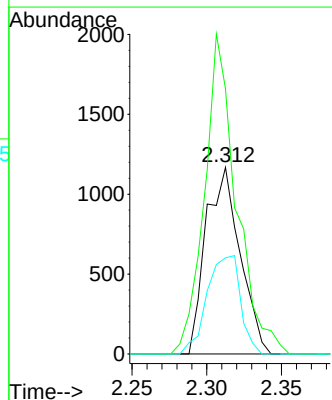
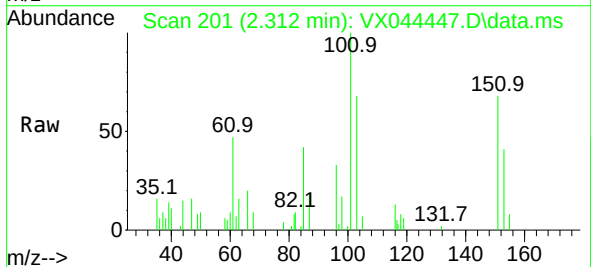


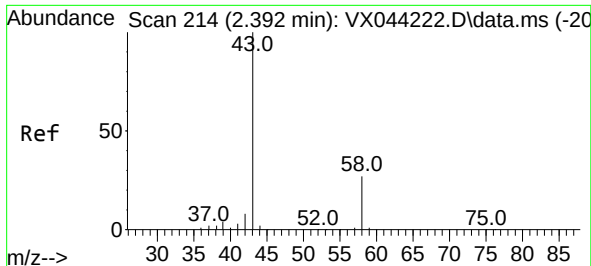
Tgt Ion: 59 Resp: 229
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#



#12
1,1-Dichloroethene
Concen: 1.413 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

Tgt Ion: 96 Resp: 1852
Ion Ratio Lower Upper
96 100
61 137.2 138.0 207.0#
98 51.5 50.0 75.0

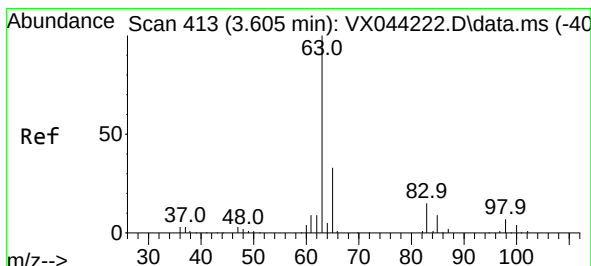
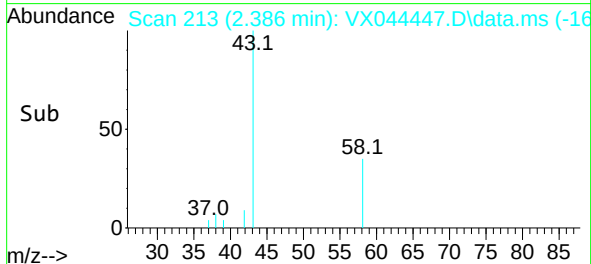
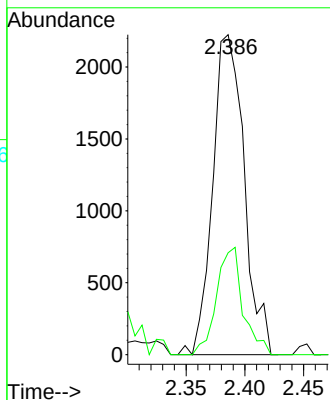
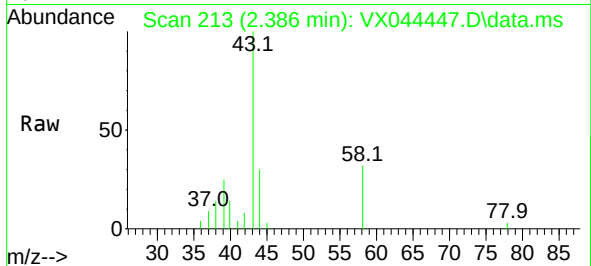




#16
Acetone
Concen: 4.955 ug/l
RT: 2.386 min Scan# 214
Delta R.T. -0.006 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

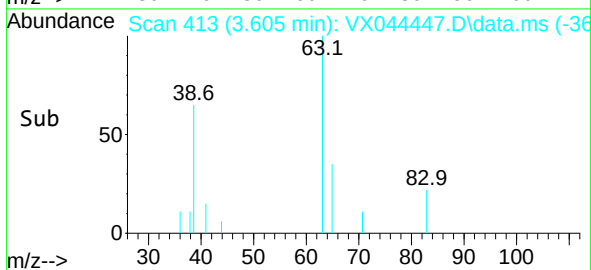
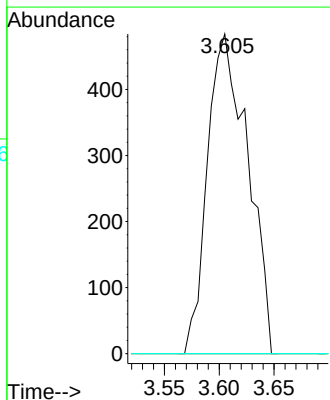
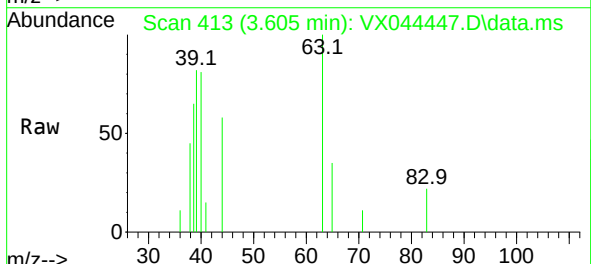
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680

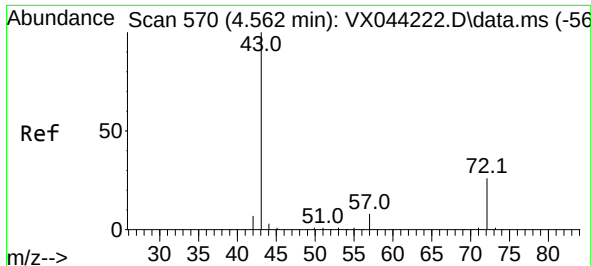
Tgt Ion: 43 Resp: 4141
Ion Ratio Lower Upper
43 100
58 31.9 21.6 32.4



#24
1,1-Dichloroethane
Concen: 0.452 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

Tgt Ion: 63 Resp: 1238
Ion Ratio Lower Upper
63 100
98 0.0 3.6 10.8#
100 0.0 2.1 6.3#

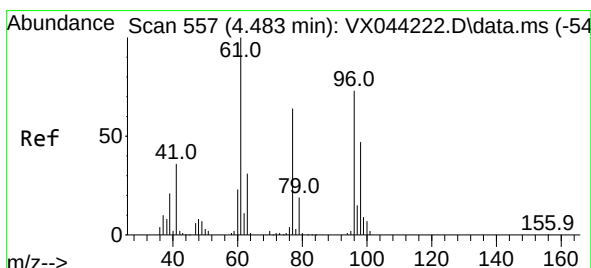
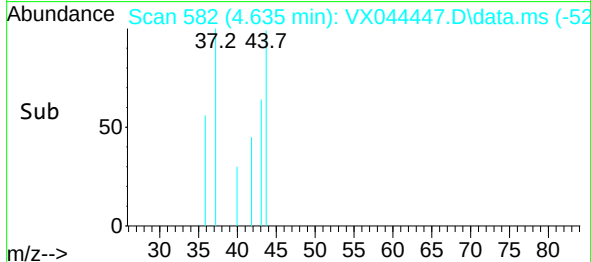
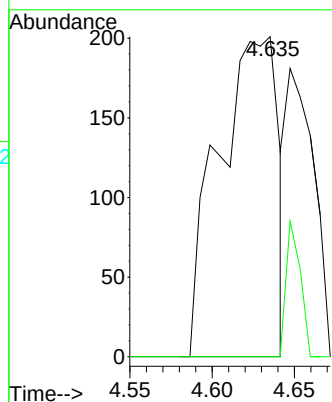
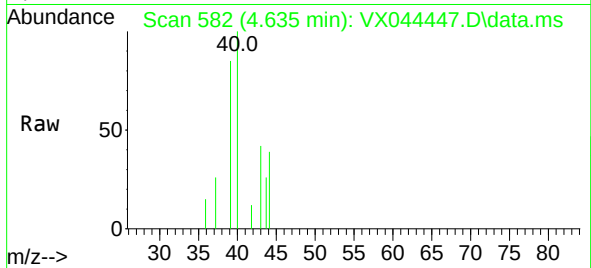




#25
2-Butanone
Concen: 0.427 ug/l
RT: 4.635 min Scan# 51
Delta R.T. 0.073 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

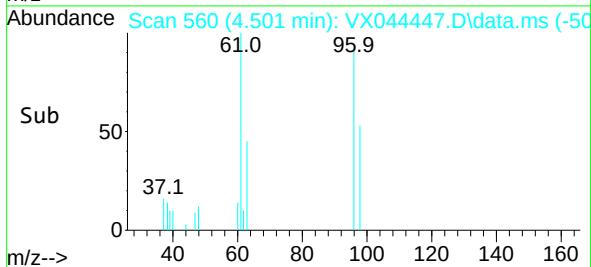
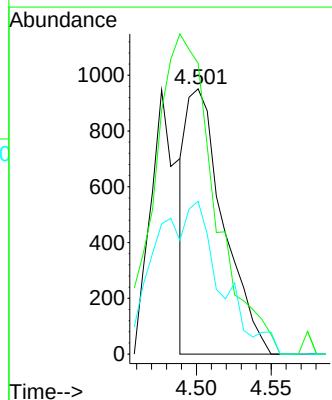
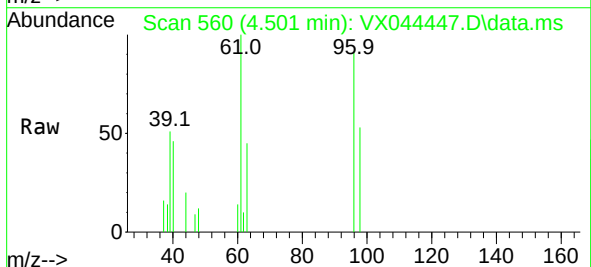
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680

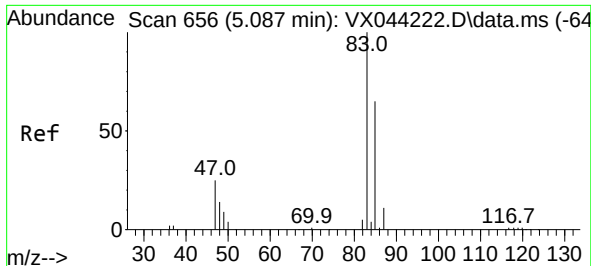
Tgt Ion: 43 Resp: 507
Ion Ratio Lower Upper
43 100
72 0.0 20.2 30.4#



#27
cis-1,2-Dichloroethene
Concen: 0.928 ug/l
RT: 4.501 min Scan# 560
Delta R.T. 0.018 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

Tgt Ion: 96 Resp: 1641
Ion Ratio Lower Upper
96 100
61 196.2 0.0 299.0
98 101.6 0.0 129.0





#30

Chloroform

Concen: 0.854 ug/l

RT: 5.092 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX044447.D

Acq: 20 Dec 2024 13:13

Instrument :

MSVOA_X

ClientSampleId :

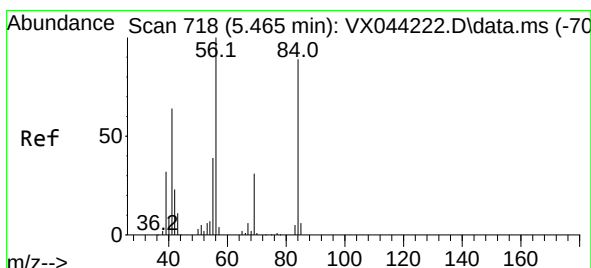
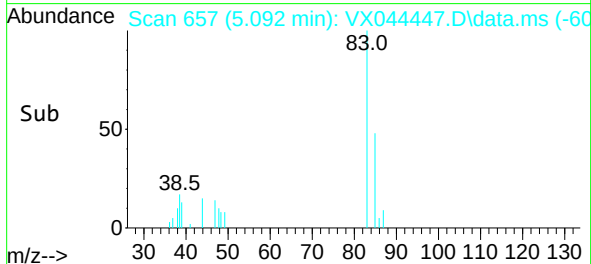
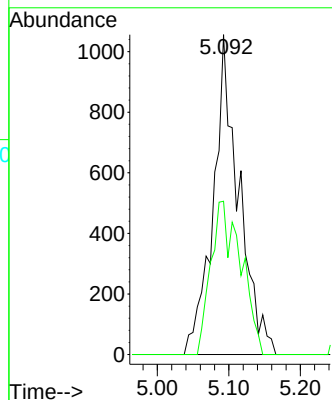
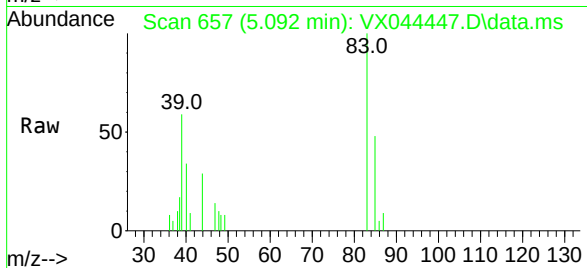
BP-VPB-190A-GW-678-680

Tgt Ion: 83 Resp: 2628

Ion Ratio Lower Upper

83 100

85 47.9 51.6 77.4#



#31

Cyclohexane

Concen: 1.479 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.079 min

Lab File: VX044447.D

Acq: 20 Dec 2024 13:13

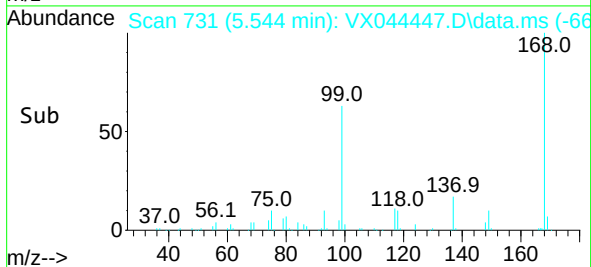
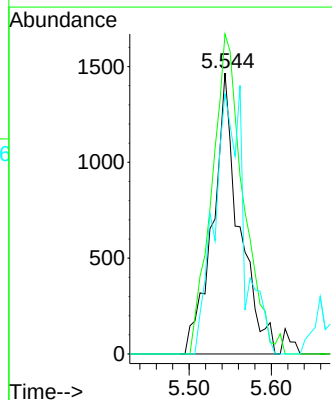
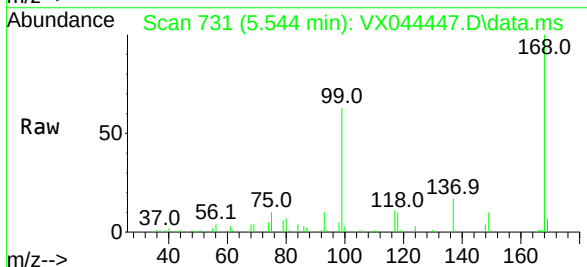
Tgt Ion: 56 Resp: 3273

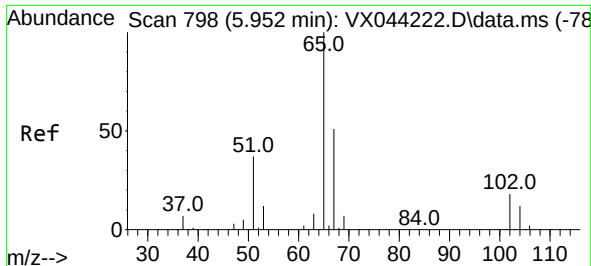
Ion Ratio Lower Upper

56 100

69 113.9 24.7 37.1#

84 92.6 71.0 106.6





#33

1,2-Dichloroethane-d4

Concen: 42.735 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX044447.D

Acq: 20 Dec 2024 13:13

Instrument :

MSVOA_X

ClientSampleId :

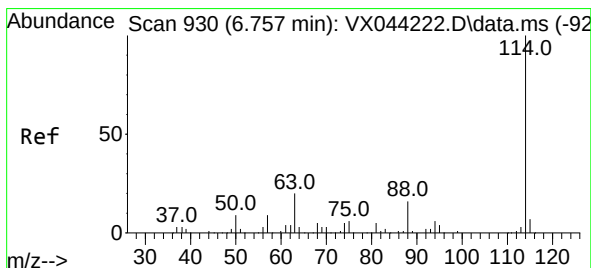
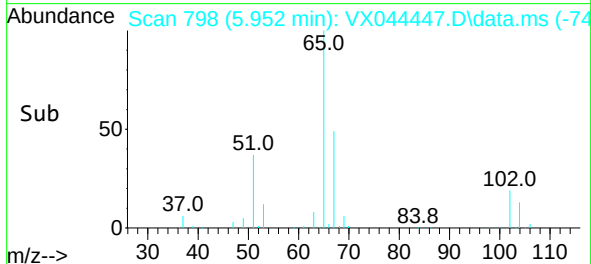
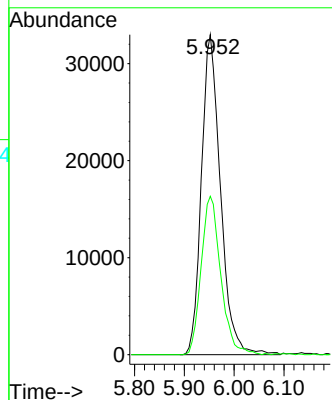
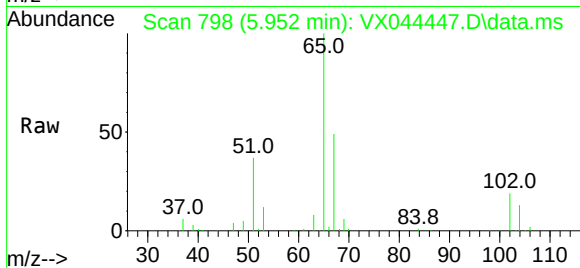
BP-VPB-190A-GW-678-680

Tgt Ion: 65 Resp: 87608

Ion Ratio Lower Upper

65 100

67 51.0 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX044447.D

Acq: 20 Dec 2024 13:13

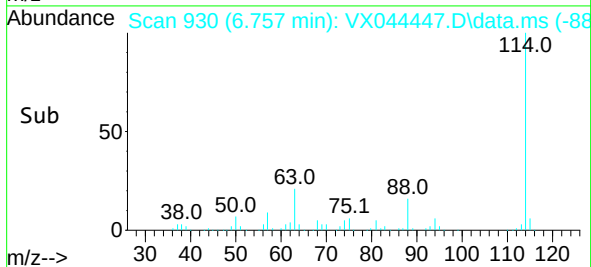
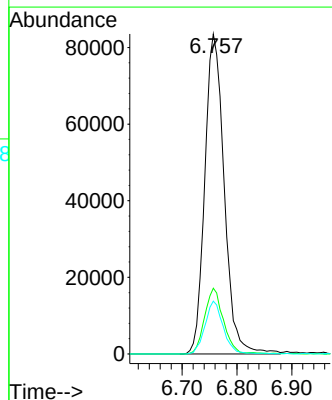
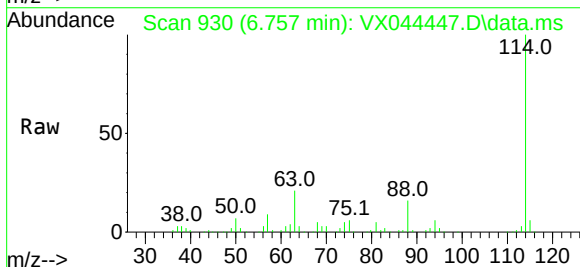
Tgt Ion: 114 Resp: 205157

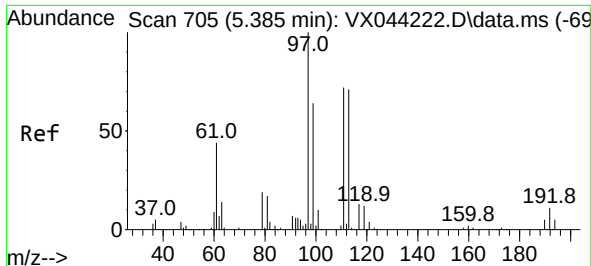
Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.6

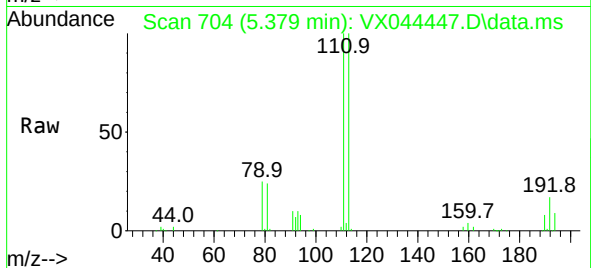
88 16.5 0.0 31.8



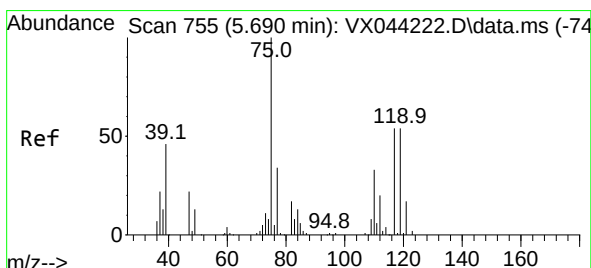
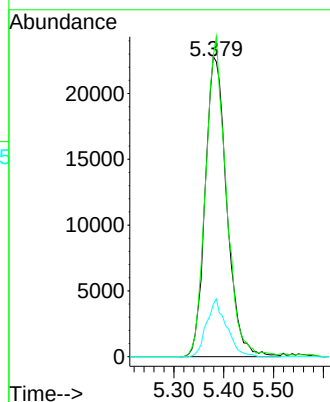
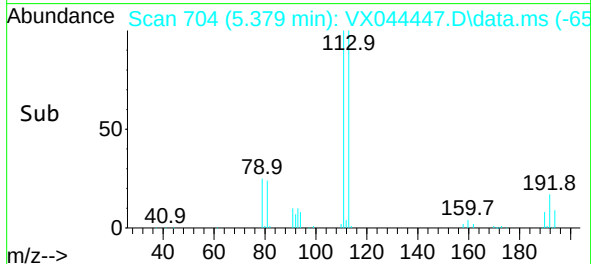


#35
Dibromofluoromethane
Concen: 48.244 ug/l
RT: 5.379 min Scan# 705
Delta R.T. -0.006 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

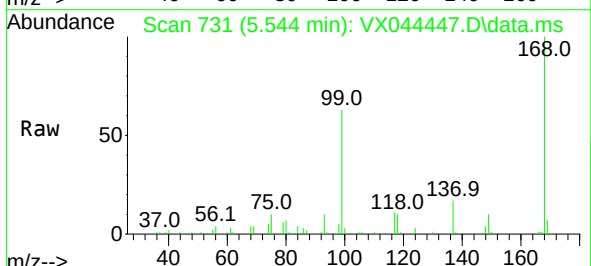
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680



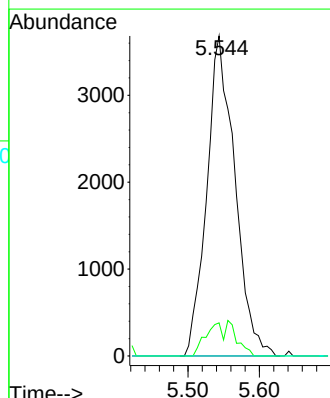
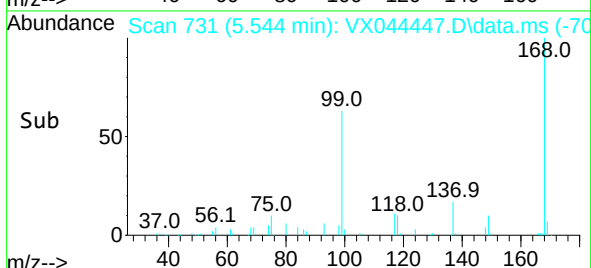
Tgt Ion:113 Resp: 68550
Ion Ratio Lower Upper
113 100
111 101.0 80.4 120.6
192 17.7 13.3 19.9

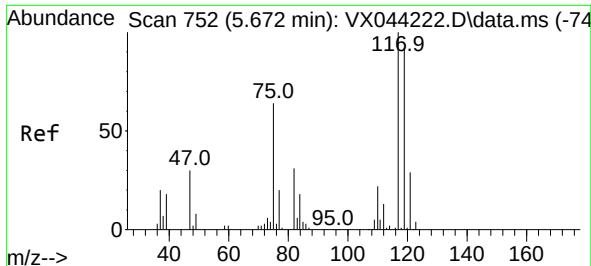


#36
1,1-Dichloropropene
Concen: 5.476 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.146 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13



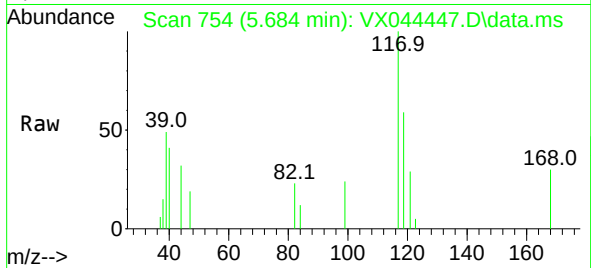
Tgt Ion: 75 Resp: 10057
Ion Ratio Lower Upper
75 100
110 6.4 17.3 51.7#
77 0.0 25.4 38.0#



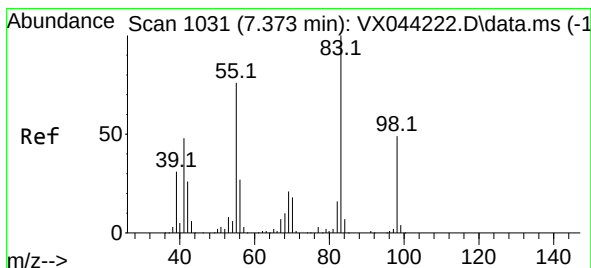
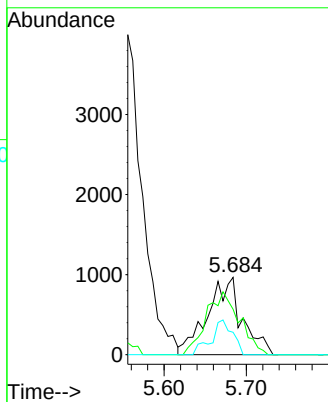
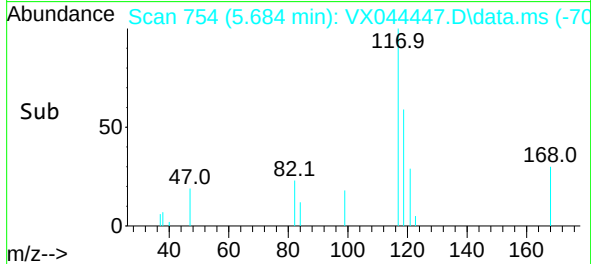


#38
Carbon Tetrachloride
Concen: 1.429 ug/l
RT: 5.684 min Scan# 71
Delta R.T. 0.012 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

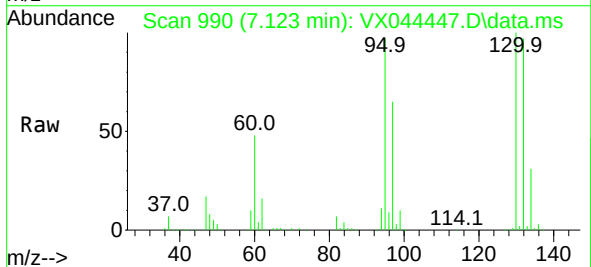
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680



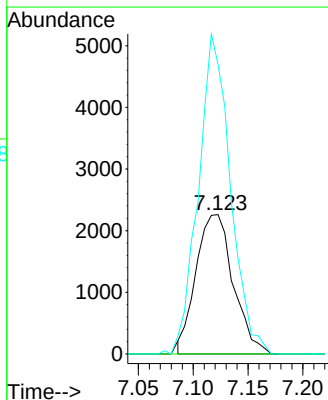
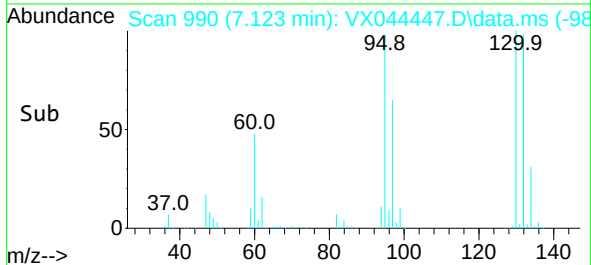
Tgt Ion:117 Resp: 2826
Ion Ratio Lower Upper
117 100
119 58.8 74.2 111.4#
121 29.0 23.0 34.6

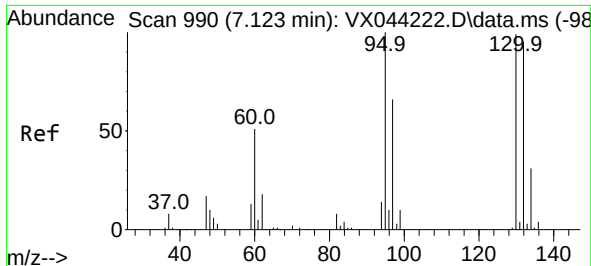


#39
Methylcyclohexane
Concen: 2.430 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.250 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13



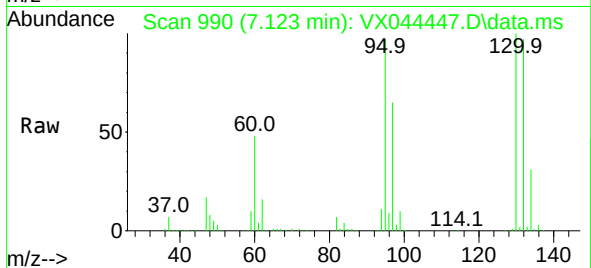
Tgt Ion: 83 Resp: 5336
Ion Ratio Lower Upper
83 100
55 0.0 60.7 91.1#
98 207.6 38.9 58.3#



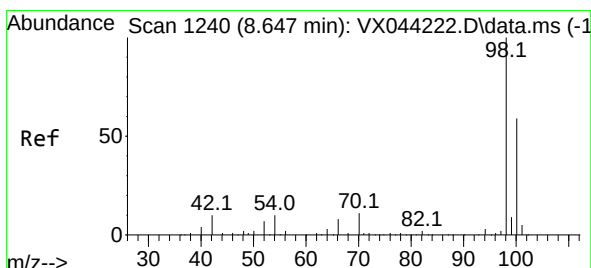
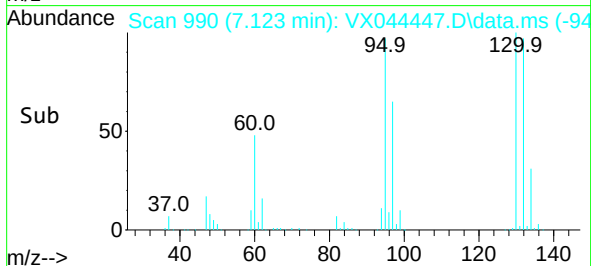
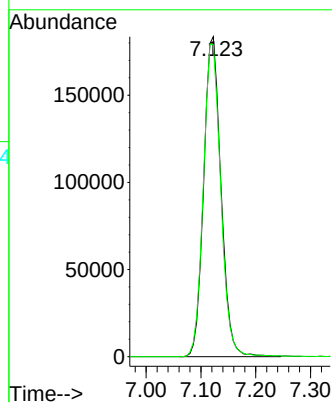


#44
Trichloroethene
Concen: 288.909 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680

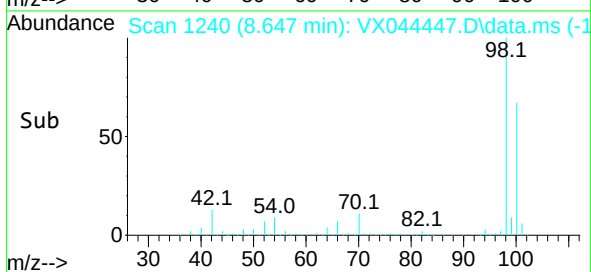
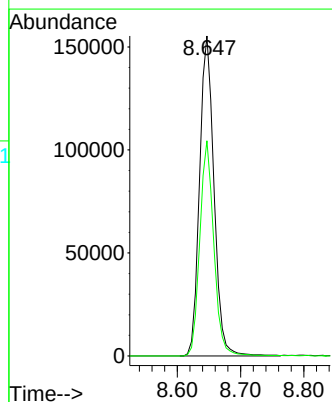
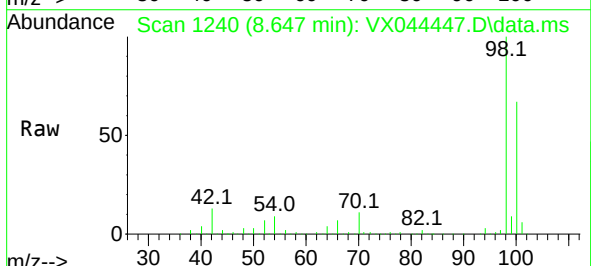


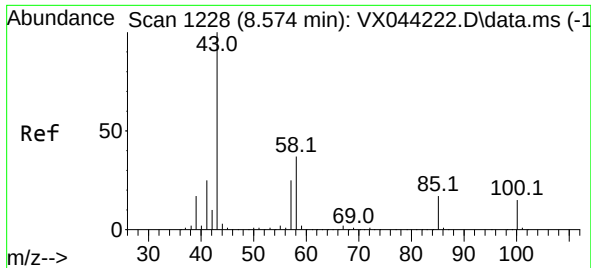
Tgt Ion:130 Resp: 401769
Ion Ratio Lower Upper
130 100
95 97.5 0.0 201.4



#50
Toluene-d8
Concen: 51.514 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

Tgt Ion: 98 Resp: 246944
Ion Ratio Lower Upper
98 100
100 65.3 51.5 77.3

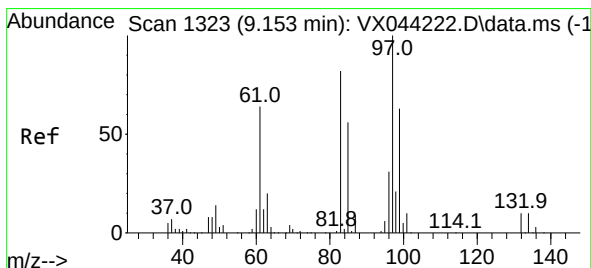
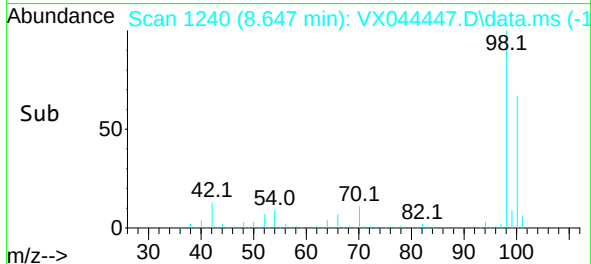
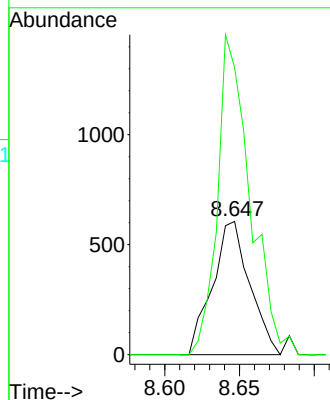
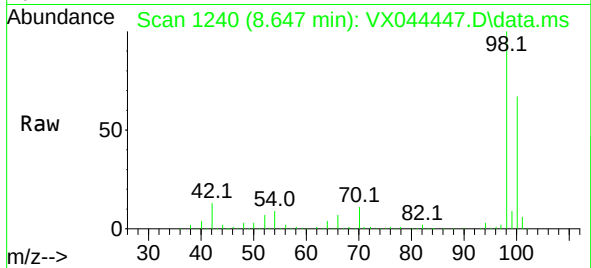




#51
4-Methyl-2-Pentanone
Concen: 0.459 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.073 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

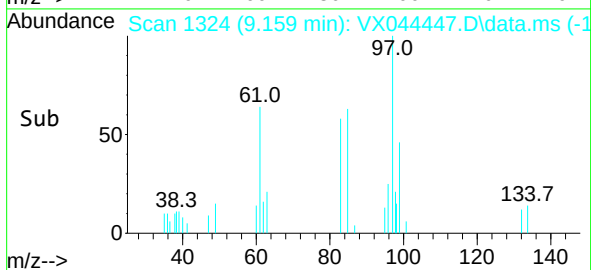
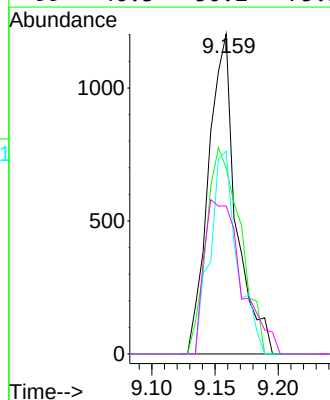
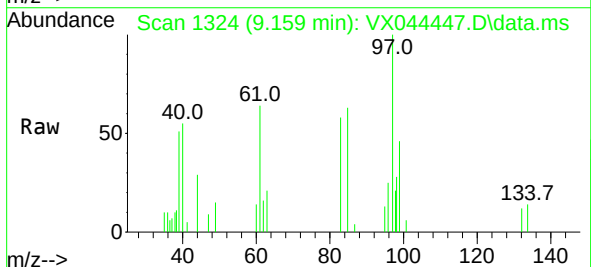
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680

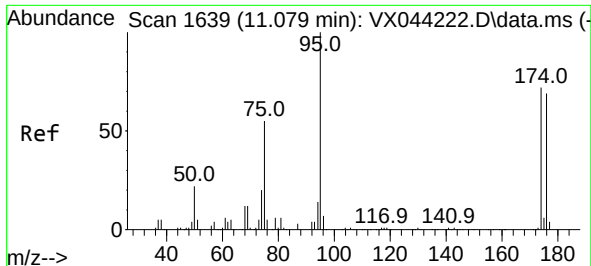
Tgt Ion: 43 Resp: 1048
Ion Ratio Lower Upper
43 100
58 210.6 29.4 44.0#



#55
1,1,2-Trichloroethane
Concen: 1.319 ug/l
RT: 9.159 min Scan# 1324
Delta R.T. 0.006 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

Tgt Ion: 97 Resp: 1835
Ion Ratio Lower Upper
97 100
83 58.1 65.3 97.9#
85 63.3 44.6 67.0
99 46.3 50.2 75.2#





#62

4-Bromofluorobenzene

Concen: 50.031 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX044447.D

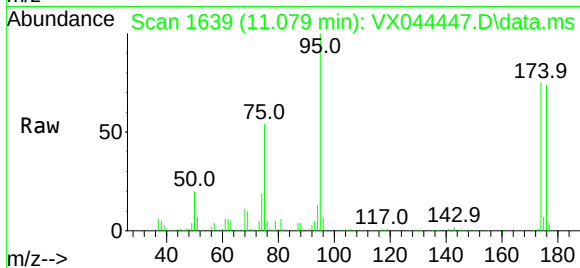
Acq: 20 Dec 2024 13:13

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-190A-GW-678-680



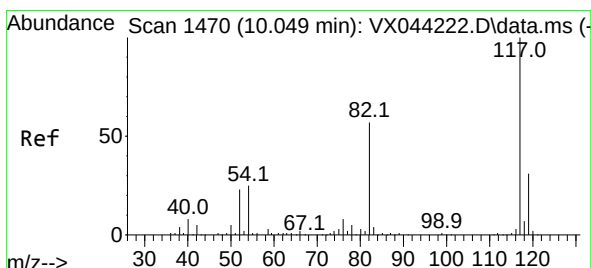
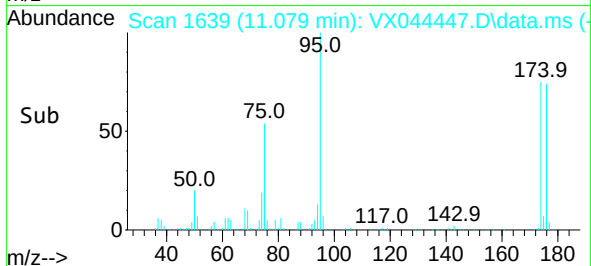
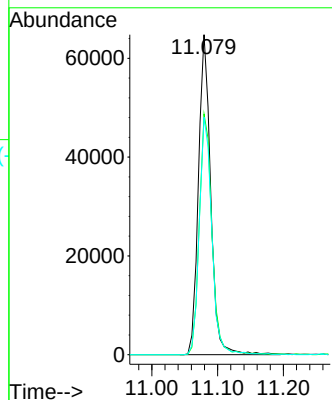
Tgt Ion: 95 Resp: 83804

Ion Ratio Lower Upper

95 100

174 77.8 0.0 145.8

176 76.2 0.0 137.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.006 min

Lab File: VX044447.D

Acq: 20 Dec 2024 13:13

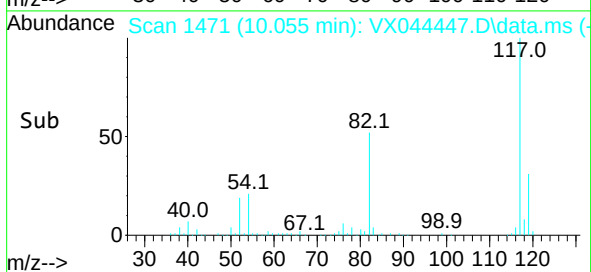
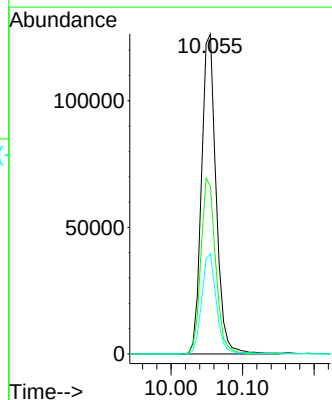
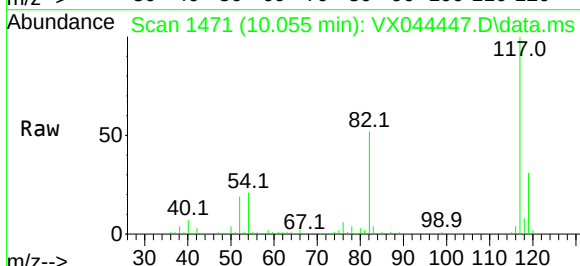
Tgt Ion: 117 Resp: 179312

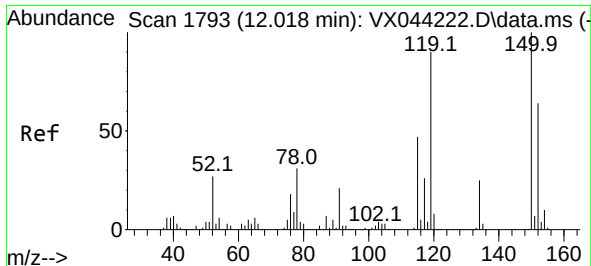
Ion Ratio Lower Upper

117 100

82 52.4 45.8 68.8

119 31.4 25.0 37.4

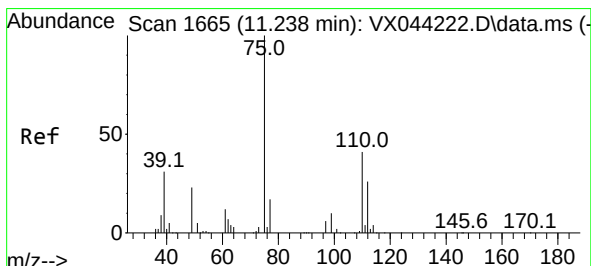
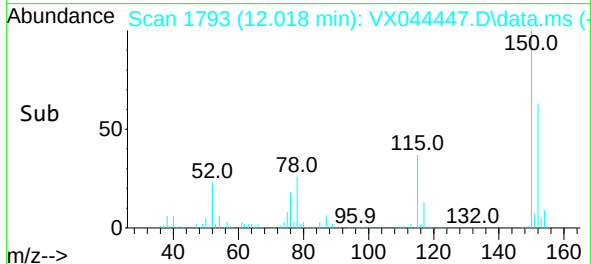
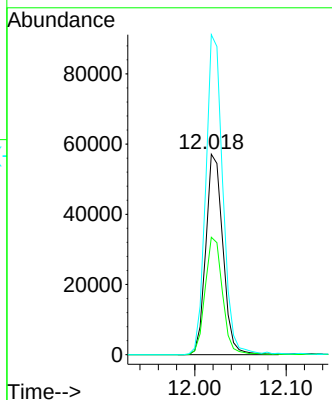
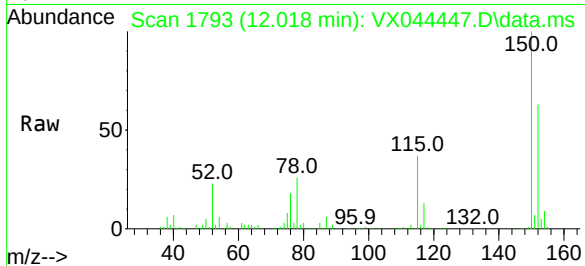




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

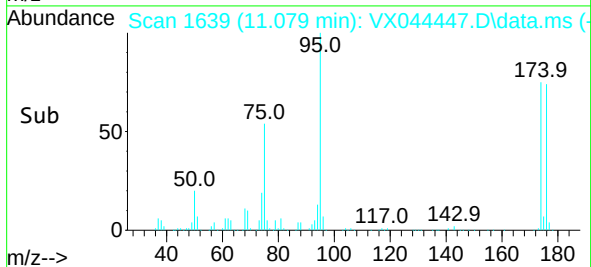
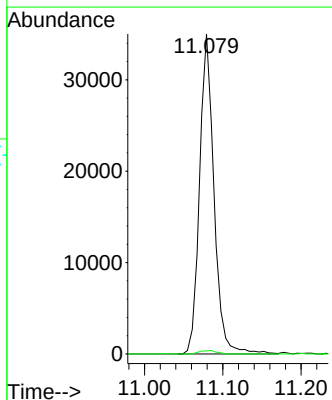
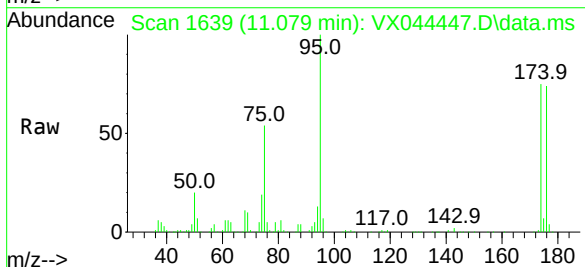
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680

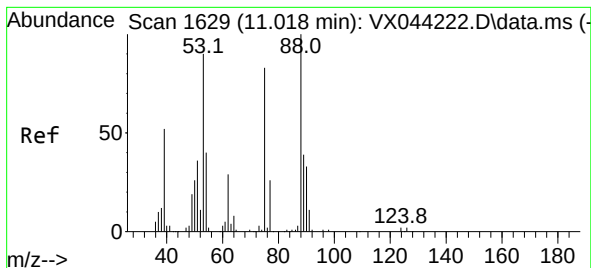
Tgt Ion:152 Resp: 74123
Ion Ratio Lower Upper
152 100
115 59.6 44.5 133.3
150 159.8 0.0 353.8



#76
1,2,3-Trichloropropane
Concen: 27.120 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX044447.D
Acq: 20 Dec 2024 13:13

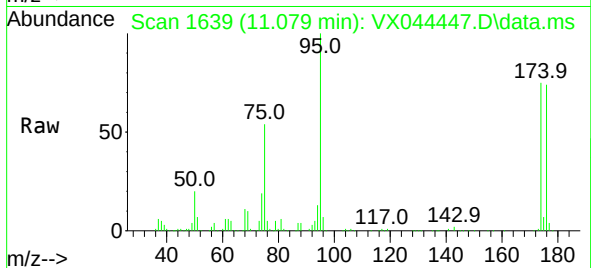
Tgt Ion: 75 Resp: 44884
Ion Ratio Lower Upper
75 100
77 1.3 20.9 62.7#



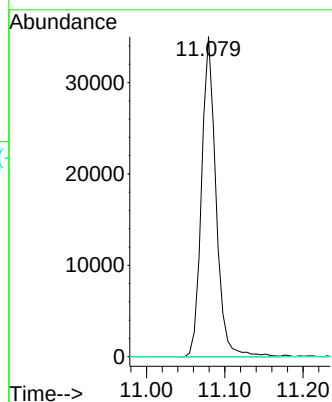
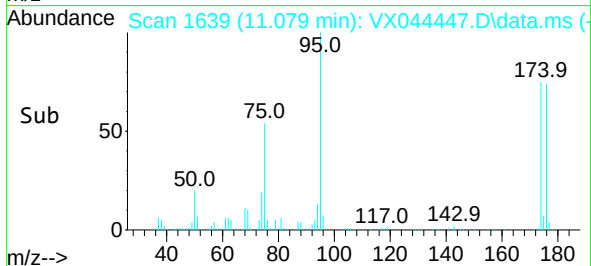


#81
 trans-1,4-Dichloro-2-butene
 Concen: 74.622 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX044447.D
 Acq: 20 Dec 2024 13:13

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-190A-GW-678-680



Tgt Ion: 75 Resp: 44884
 Ion Ratio Lower Upper
 75 100
 53 0.0 93.6 140.4#
 89 0.0 37.3 55.9#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
 Data File : VX044449.D
 Acq On : 20 Dec 2024 13:59
 Operator : JC/MD
 Sample : P5314-02DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-190A-GW-678-680DL

Quant Time: Dec 20 14:30:13 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:28:14 2024
 Response via : Initial Calibration

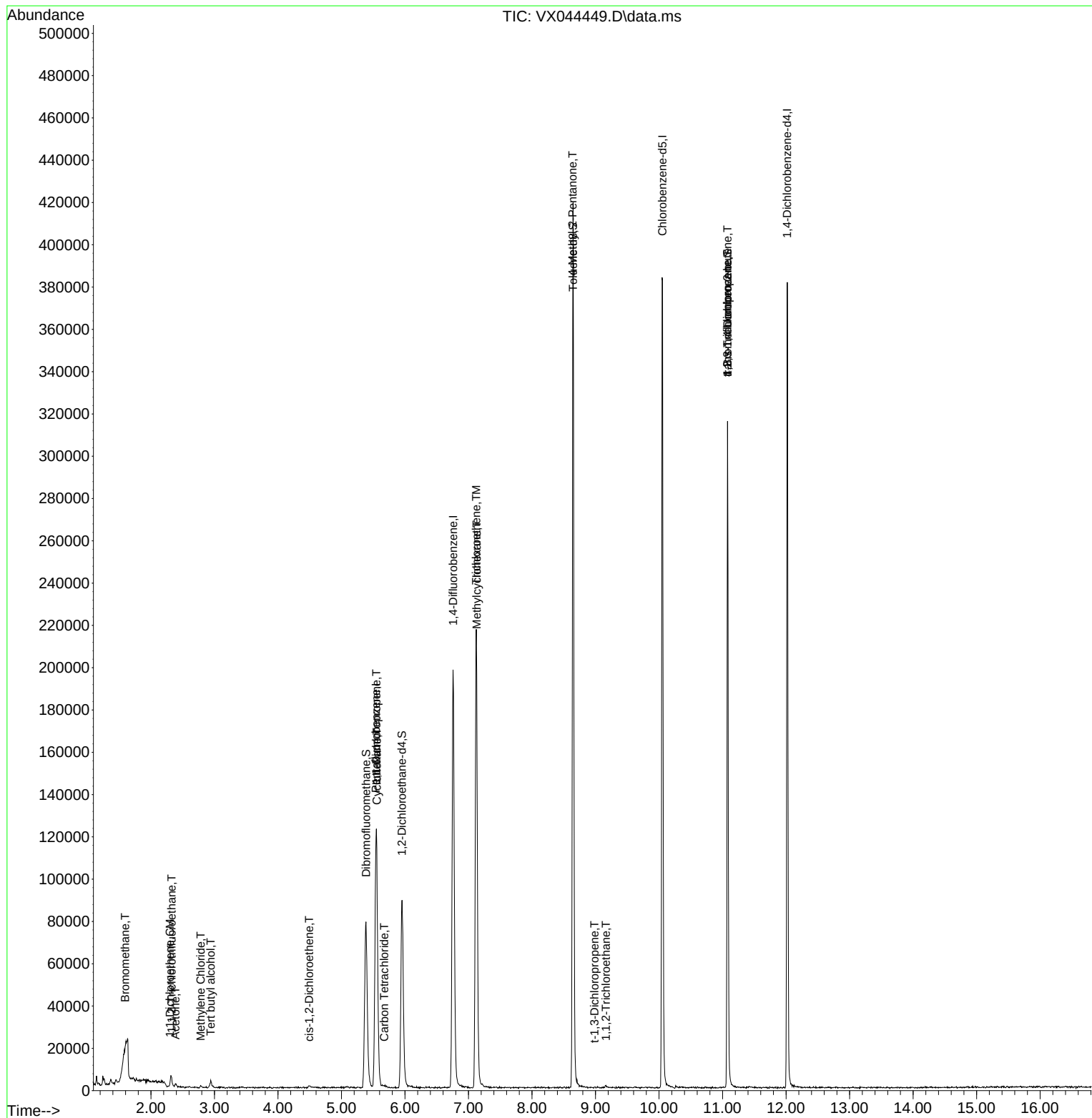
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	113918	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	202874	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	177737	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	76153	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	86311	43.213	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	86.420%
35) Dibromofluoromethane	5.385	113	67094	47.751	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.500%
50) Toluene-d8	8.647	98	241190	50.880	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.760%
62) 4-Bromofluorobenzene	11.079	95	77867	47.010	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	94.020%
Target Compounds						
					Qvalue	
5) Bromomethane	1.593	94	498	0.400	ug/l #	32
9) 1,1,2-Trichlorotrifluo...	2.325	101	1586	1.141	ug/l	94
11) Tert butyl alcohol	2.940	59	1613	5.730	ug/l #	71
12) 1,1-Dichloroethene	2.300	96	476	0.373	ug/l #	60
16) Acetone	2.386	43	1314	1.614	ug/l #	85
20) Methylene Chloride	2.782	84	398	0.260	ug/l #	64
27) cis-1,2-Dichloroethene	4.489	96	353	0.205	ug/l	54
31) Cyclohexane	5.556	56	3176	1.473	ug/l #	35
36) 1,1-Dichloropropene	5.550	75	9779	5.384	ug/l #	49
38) Carbon Tetrachloride	5.672	117	498	0.255	ug/l #	50
39) Methylcyclohexane	7.129	83	1283	0.591	ug/l #	1
44) Trichloroethene	7.123	130	83240	60.531	ug/l	97
51) 4-Methyl-2-Pentanone	8.641	43	1347	0.597	ug/l #	1
53) t-1,3-Dichloropropene	8.982	75	44	1.018	ug/l #	41
55) 1,1,2-Trichloroethane	9.165	97	483	0.351	ug/l #	63
76) 1,2,3-Trichloropropane	11.079	75	42426	24.952	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	42426	69.101	ug/l #	4

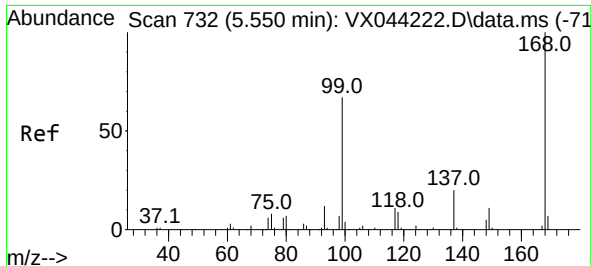
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044449.D
Acq On : 20 Dec 2024 13:59
Operator : JC/MD
Sample : P5314-02DL 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680DL

Quant Time: Dec 20 14:30:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

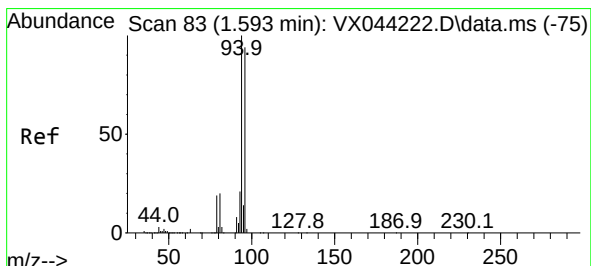
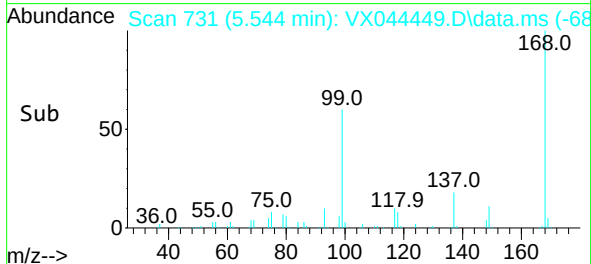
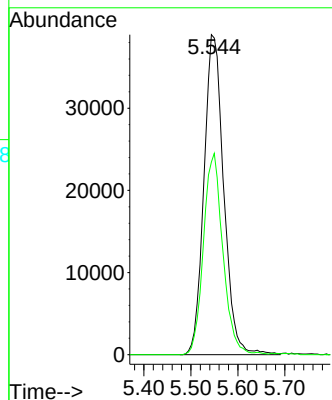
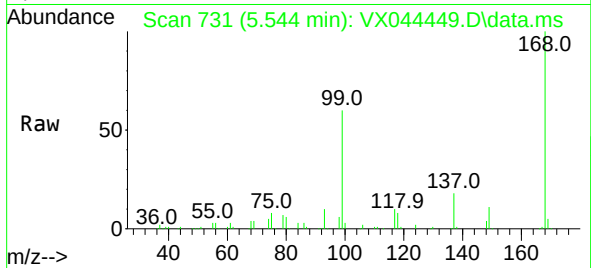




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

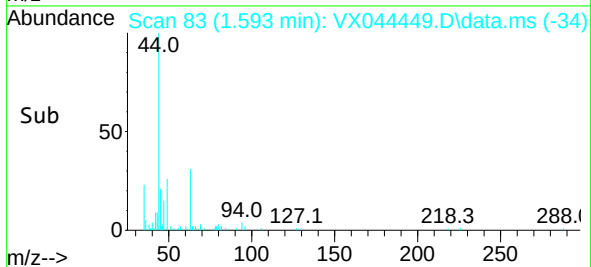
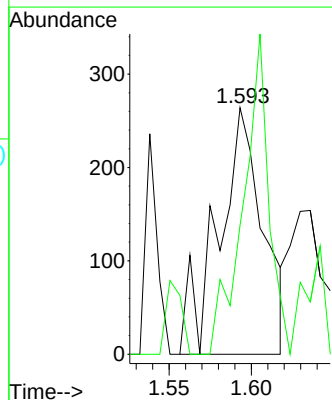
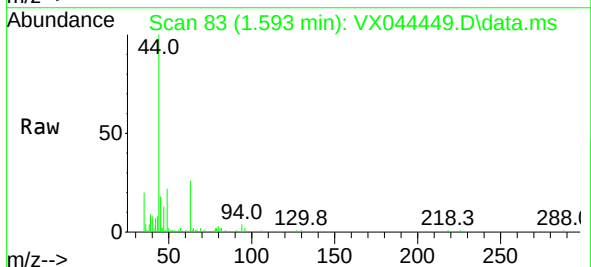
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680DL

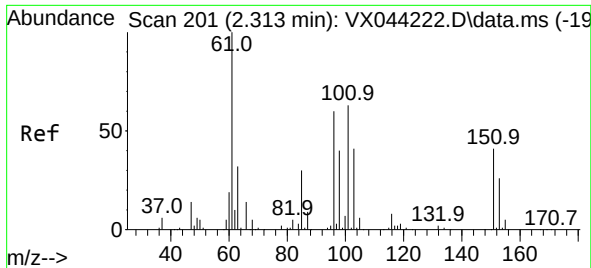
Tgt Ion:168 Resp: 113918
Ion Ratio Lower Upper
168 100
99 60.2 53.4 80.0



#5
Bromomethane
Concen: 0.400 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

Tgt Ion: 94 Resp: 498
Ion Ratio Lower Upper
94 100
96 28.4 74.9 112.3#

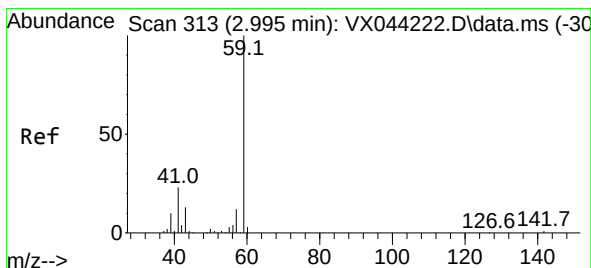
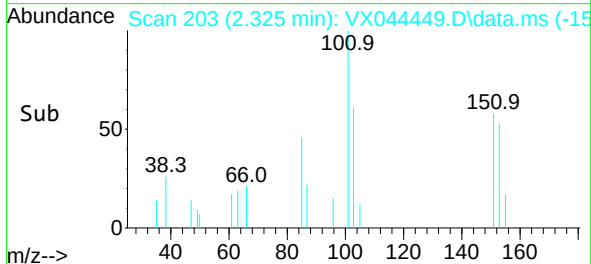
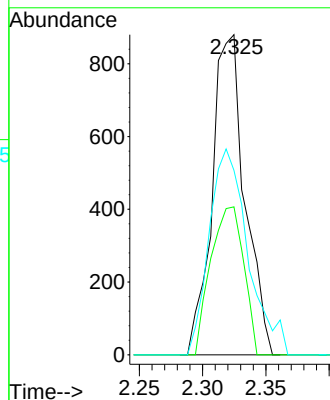
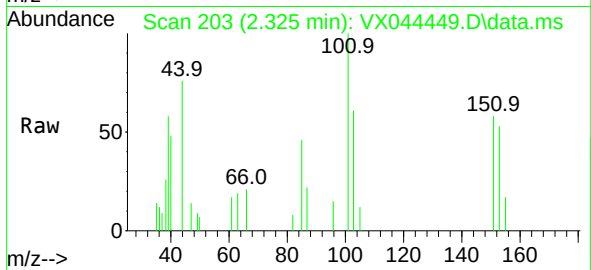




#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.141 ug/l
RT: 2.325 min Scan# 20
Delta R.T. 0.012 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

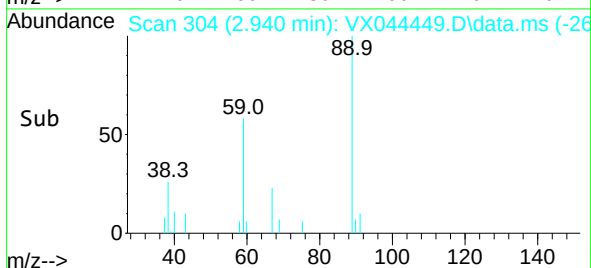
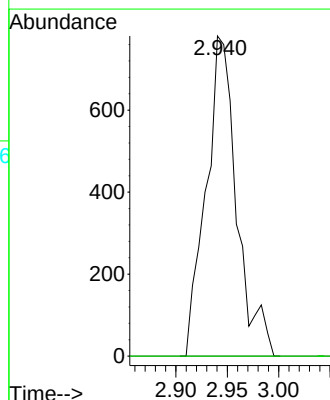
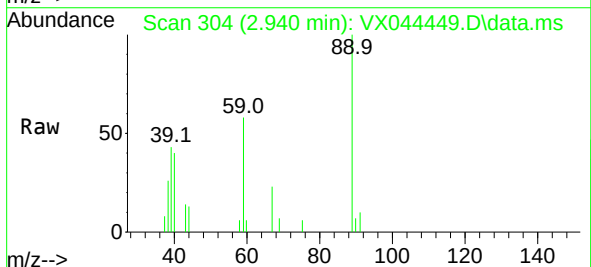
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680DL

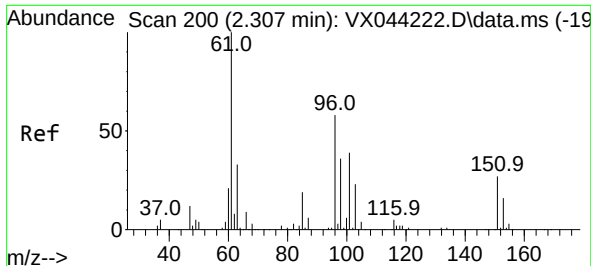
Tgt Ion:101 Resp: 1586
Ion Ratio Lower Upper
101 100
85 46.4 38.5 57.7
151 76.3 55.8 83.6



#11
Tert butyl alcohol
Concen: 5.730 ug/l
RT: 2.940 min Scan# 304
Delta R.T. -0.055 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

Tgt Ion: 59 Resp: 1613
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#





#12

1,1-Dichloroethene

Concen: 0.373 ug/l

RT: 2.300 min Scan# 199

Delta R.T. -0.006 min

Lab File: VX044449.D

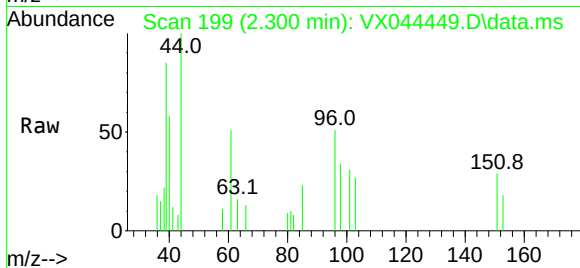
Acq: 20 Dec 2024 13:59

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-190A-GW-678-680DL



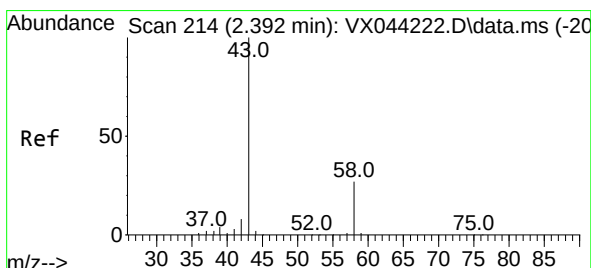
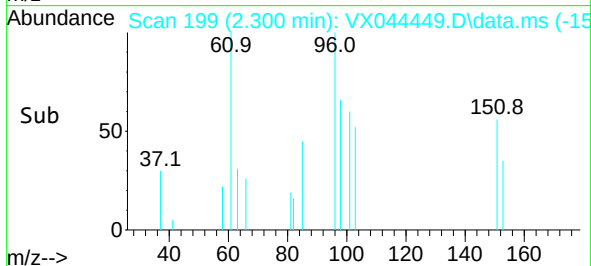
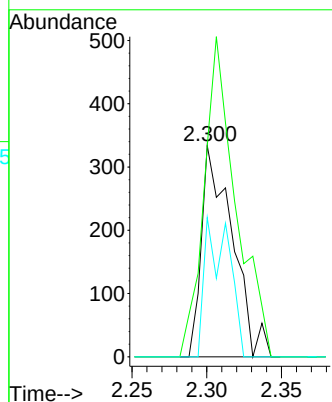
Tgt Ion: 96 Resp: 476

Ion Ratio Lower Upper

96 100

61 99.7 138.0 207.0#

98 65.9 50.0 75.0



#16

Acetone

Concen: 1.614 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.006 min

Lab File: VX044449.D

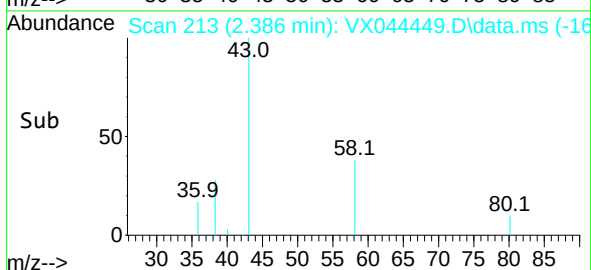
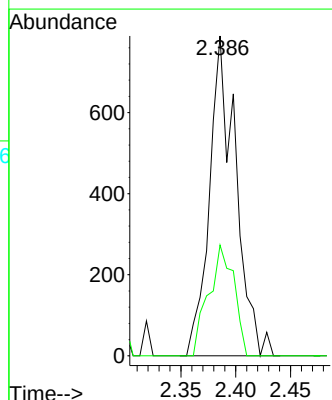
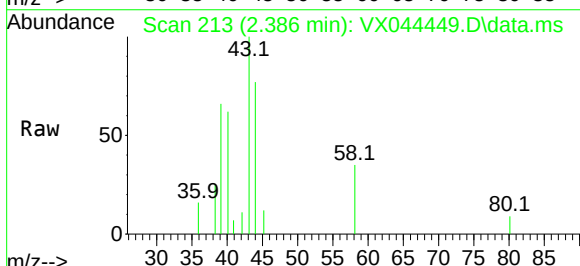
Acq: 20 Dec 2024 13:59

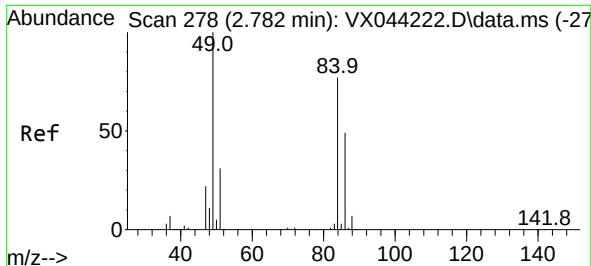
Tgt Ion: 43 Resp: 1314

Ion Ratio Lower Upper

43 100

58 34.6 21.6 32.4#

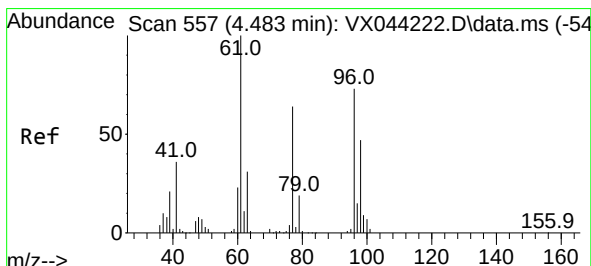
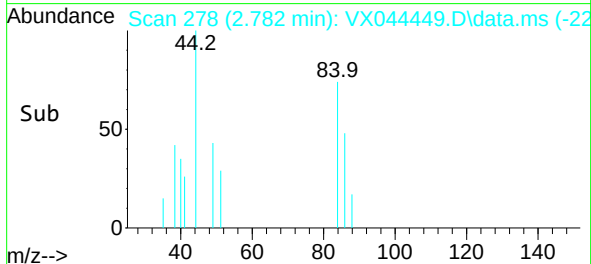
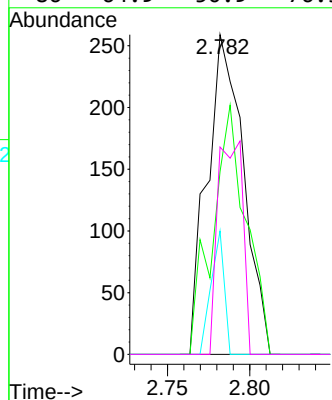
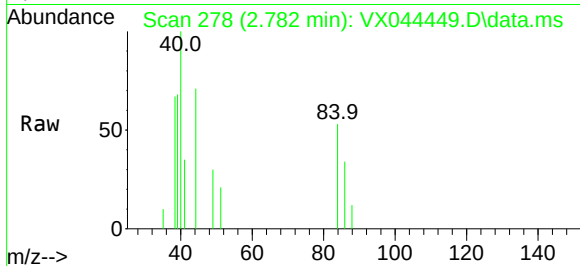




#20
Methylene Chloride
Concen: 0.260 ug/l
RT: 2.782 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

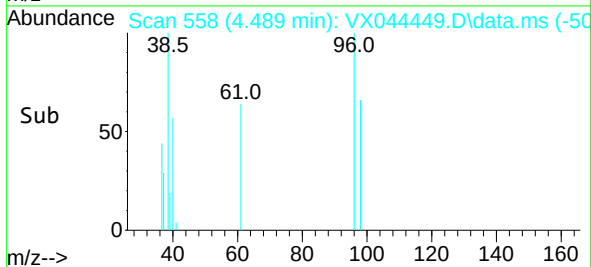
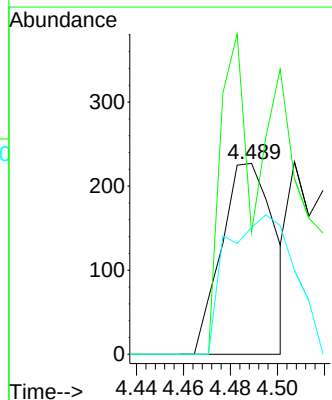
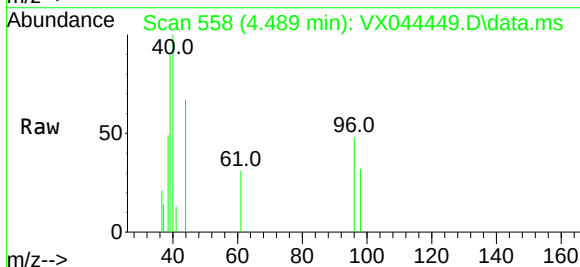
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680DL

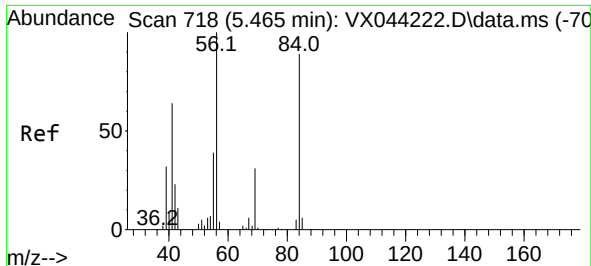
Tgt Ion:	84	Resp:	398
Ion	Ratio	Lower	Upper
84	100		
49	57.1	104.2	156.4#
51	38.6	32.2	48.4
86	64.9	50.9	76.3



#27
cis-1,2-Dichloroethene
Concen: 0.205 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.006 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

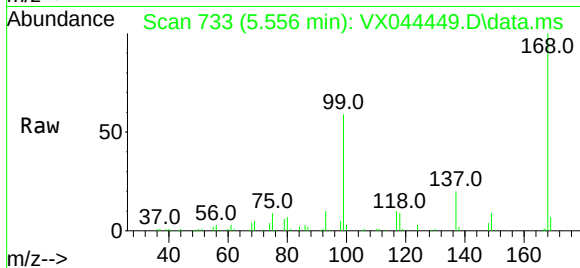
Tgt Ion:	96	Resp:	353
Ion	Ratio	Lower	Upper
96	100		
61	86.7	0.0	299.0
98	94.1	0.0	129.0



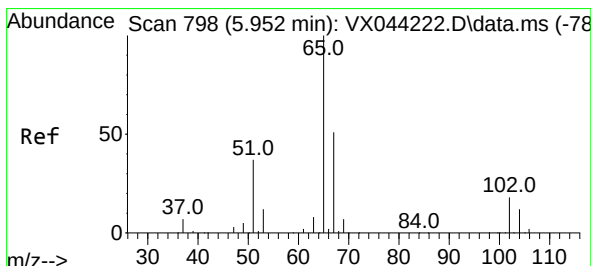
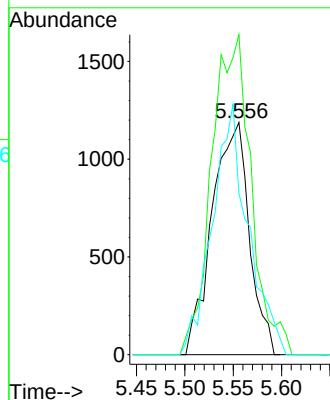
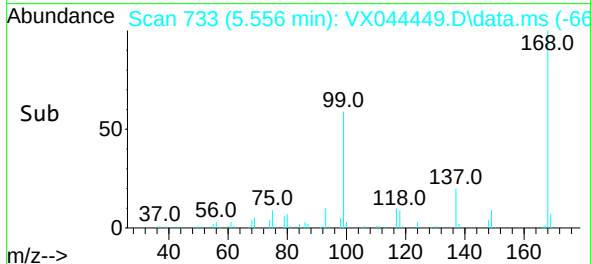


#31
Cyclohexane
Concen: 1.473 ug/l
RT: 5.556 min Scan# 718
Delta R.T. 0.091 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

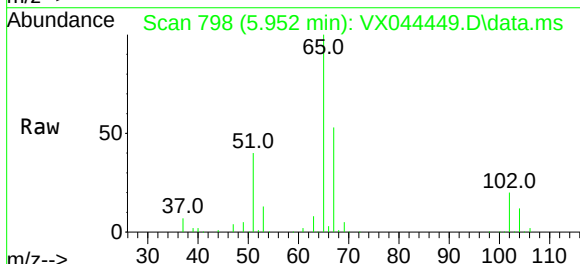
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680DL



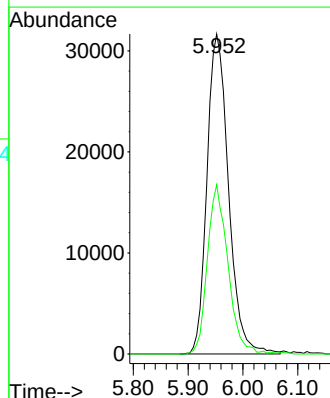
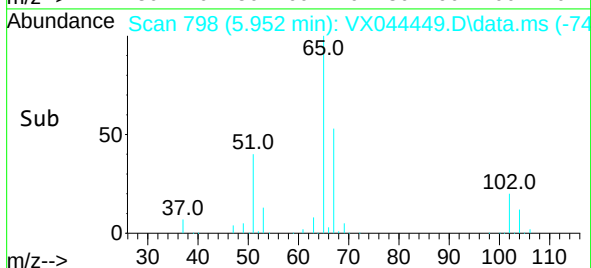
Tgt Ion: 56 Resp: 3176
Ion Ratio Lower Upper
56 100
69 137.8 24.7 37.1#
84 69.6 71.0 106.6#

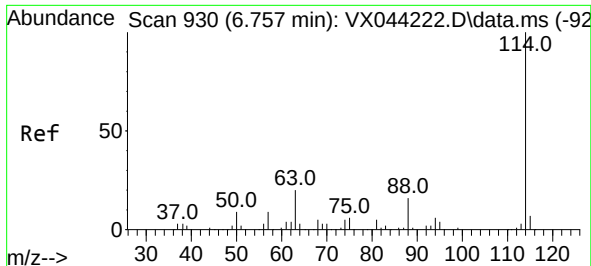


#33
1,2-Dichloroethane-d4
Concen: 43.213 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59



Tgt Ion: 65 Resp: 86311
Ion Ratio Lower Upper
65 100
67 50.2 0.0 101.6

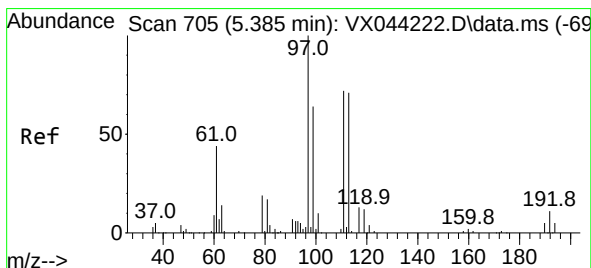
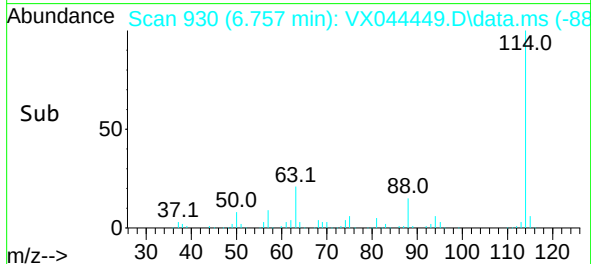
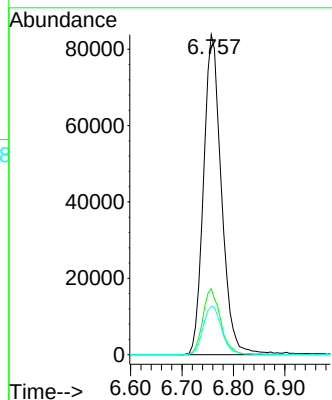
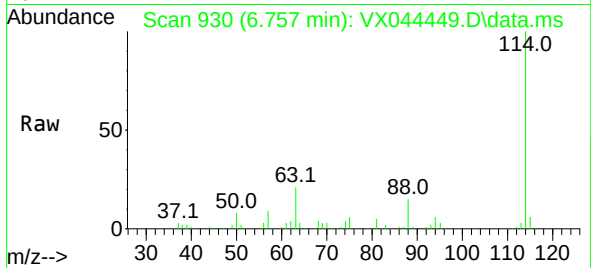




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

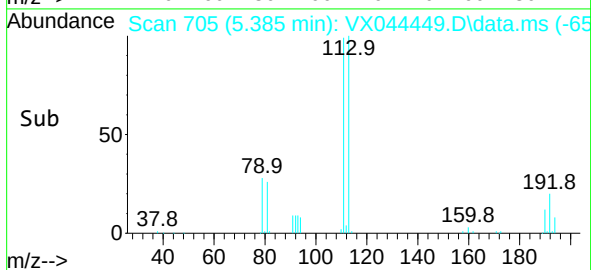
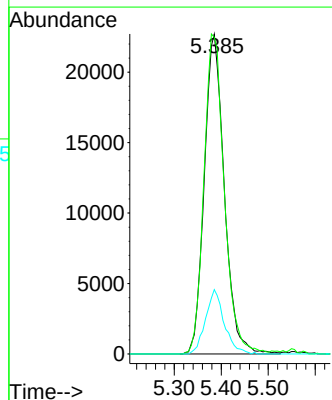
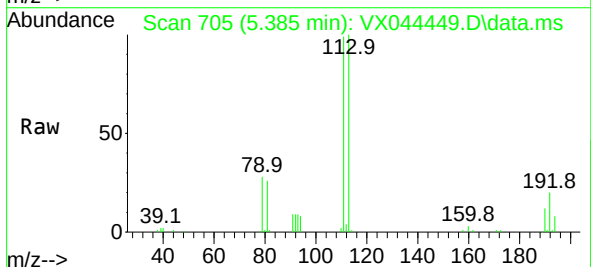
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680DL

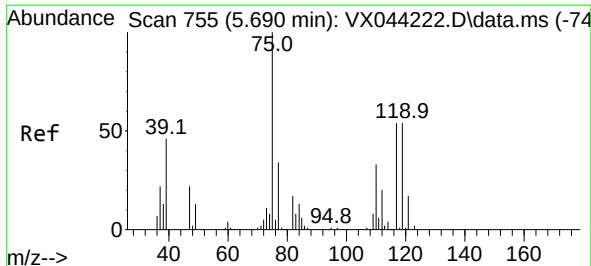
Tgt Ion:114 Resp: 202874
Ion Ratio Lower Upper
114 100
63 20.6 0.0 40.6
88 15.1 0.0 31.8



#35
Dibromofluoromethane
Concen: 47.751 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

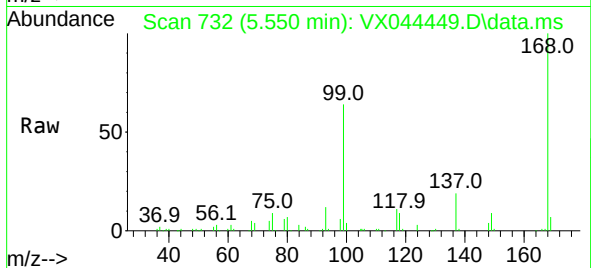
Tgt Ion:113 Resp: 67094
Ion Ratio Lower Upper
113 100
111 101.6 80.4 120.6
192 18.7 13.3 19.9



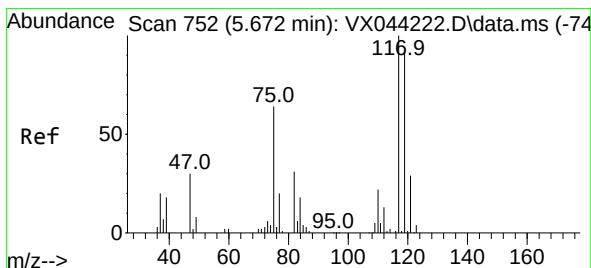
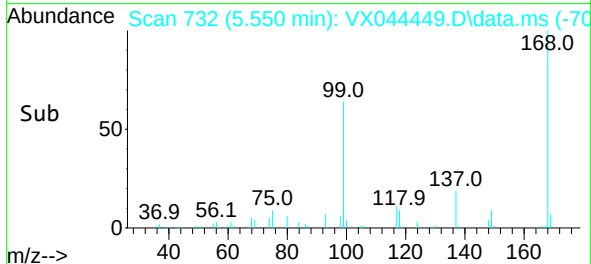
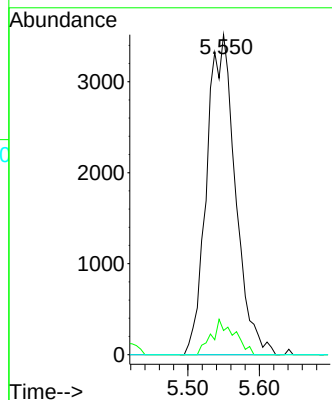


#36
1,1-Dichloropropene
Concen: 5.384 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.140 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680DL

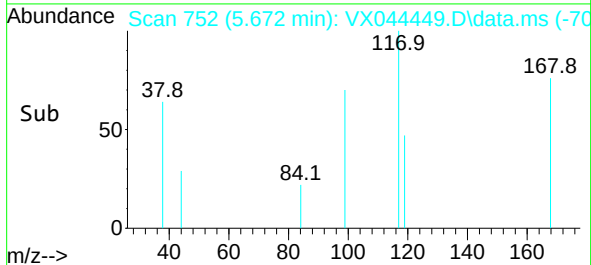
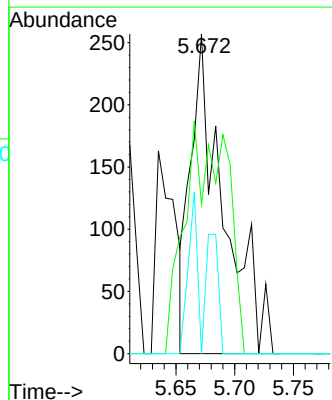
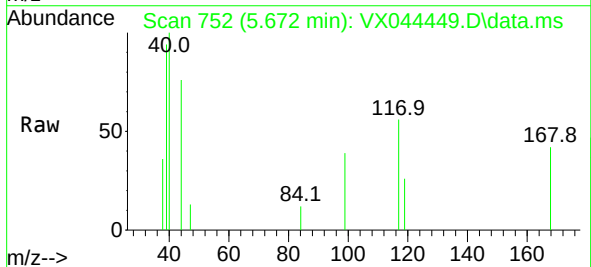


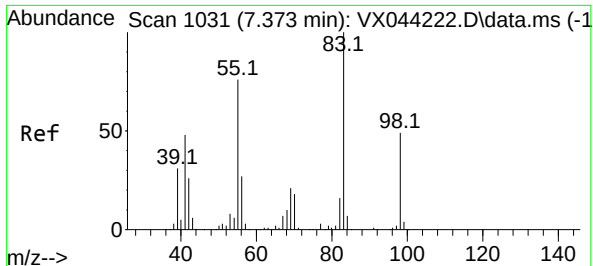
Tgt Ion: 75 Resp: 9779
Ion Ratio Lower Upper
75 100
110 8.8 17.3 51.7#
77 0.0 25.4 38.0#



#38
Carbon Tetrachloride
Concen: 0.255 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

Tgt Ion: 117 Resp: 498
Ion Ratio Lower Upper
117 100
119 46.7 74.2 111.4#
121 0.0 23.0 34.6#





#39

Methylcyclohexane

Concen: 0.591 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.244 min

Lab File: VX044449.D

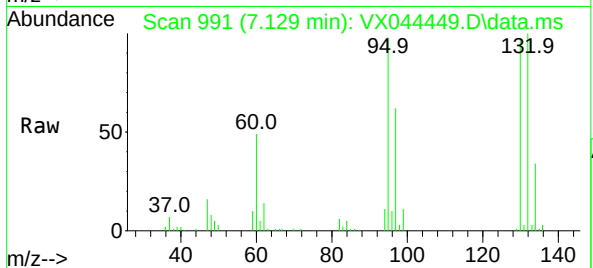
Acq: 20 Dec 2024 13:59

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-190A-GW-678-680DL



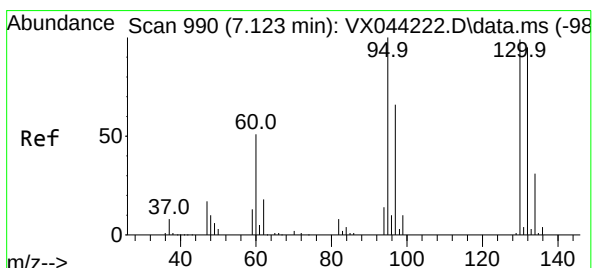
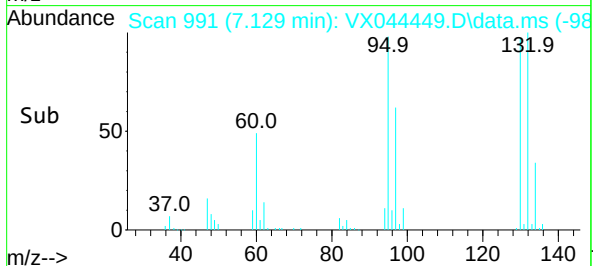
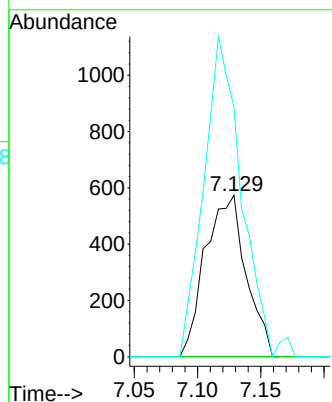
Tgt Ion: 83 Resp: 1283

Ion Ratio Lower Upper

83 100

55 0.0 60.7 91.1#

98 154.8 38.9 58.3#



#44

Trichloroethene

Concen: 60.531 ug/l

RT: 7.123 min Scan# 990

Delta R.T. -0.000 min

Lab File: VX044449.D

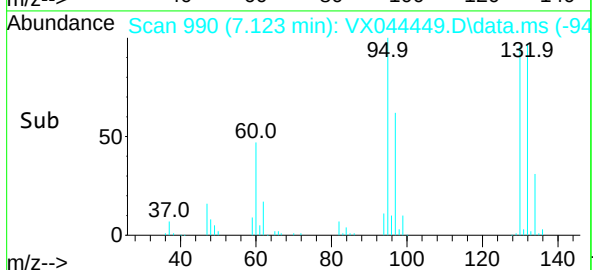
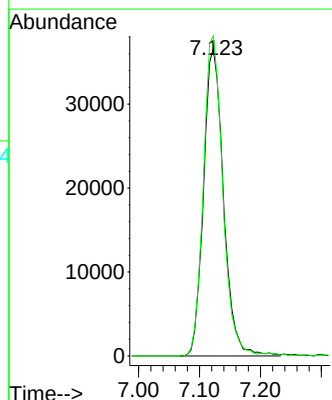
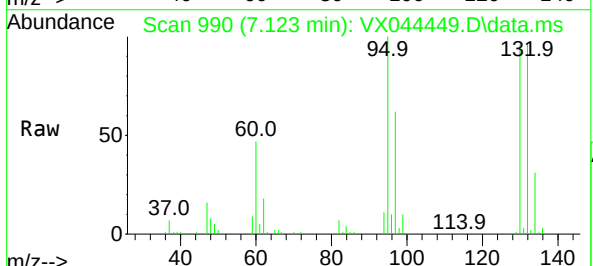
Acq: 20 Dec 2024 13:59

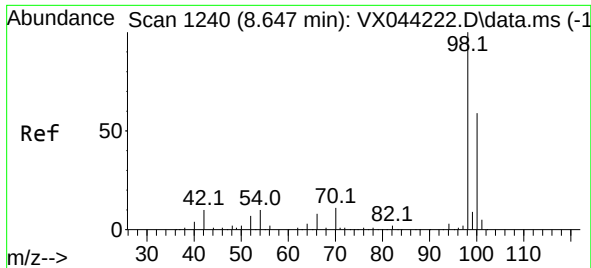
Tgt Ion:130 Resp: 83240

Ion Ratio Lower Upper

130 100

95 104.1 0.0 201.4

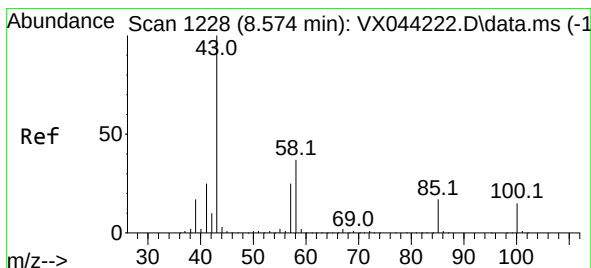
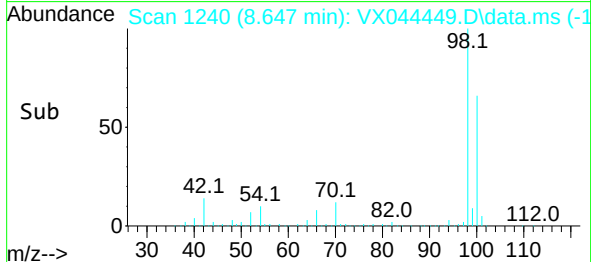
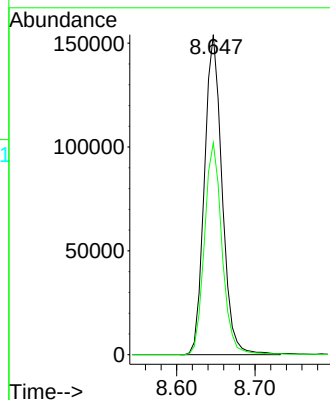
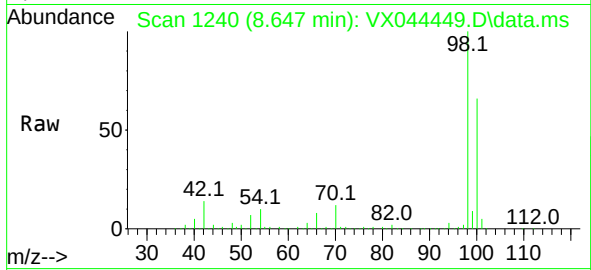




#50
Toluene-d8
Concen: 50.880 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

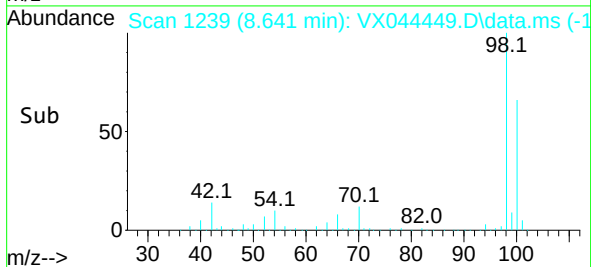
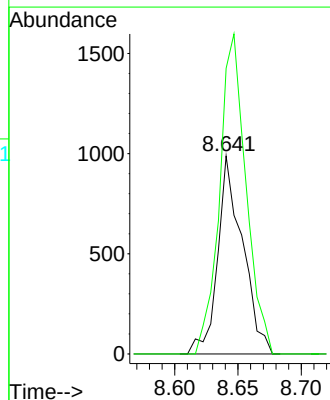
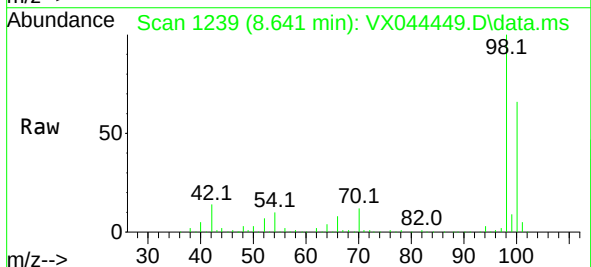
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680DL

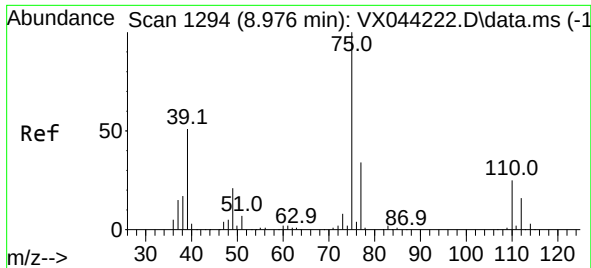
Tgt Ion: 98 Resp: 241190
Ion Ratio Lower Upper
98 100
100 65.8 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 0.597 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. 0.067 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

Tgt Ion: 43 Resp: 1347
Ion Ratio Lower Upper
43 100
58 172.2 29.4 44.0#

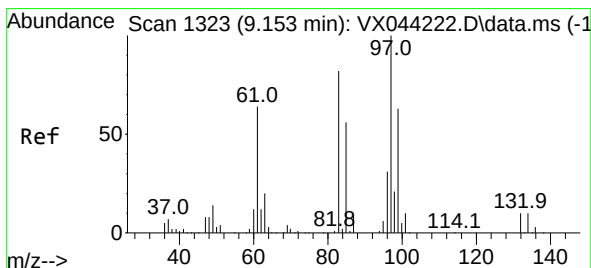
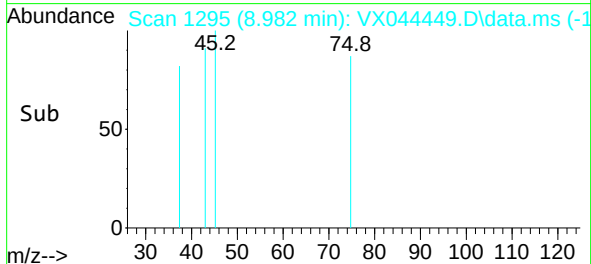
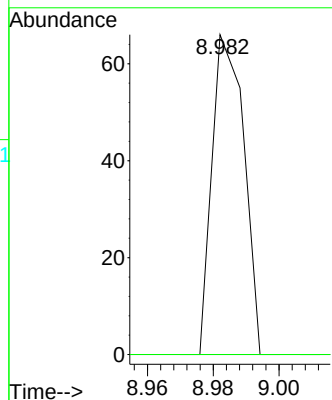
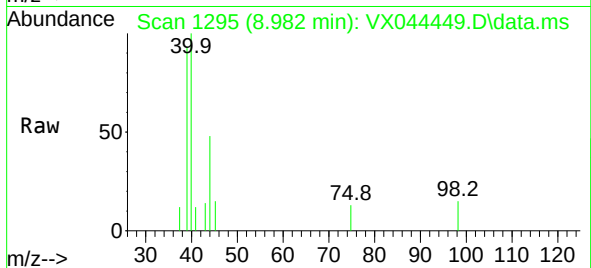




#53
t-1,3-Dichloropropene
Concen: 1.018 ug/l
RT: 8.982 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

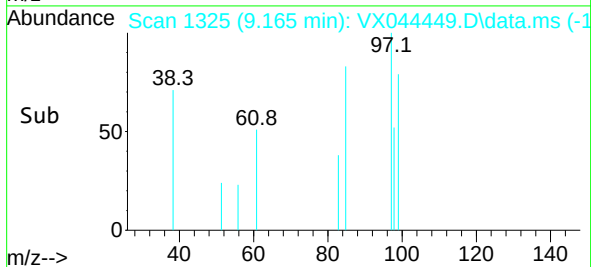
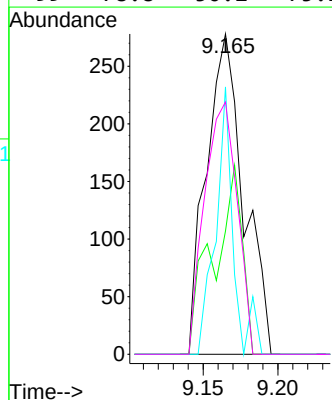
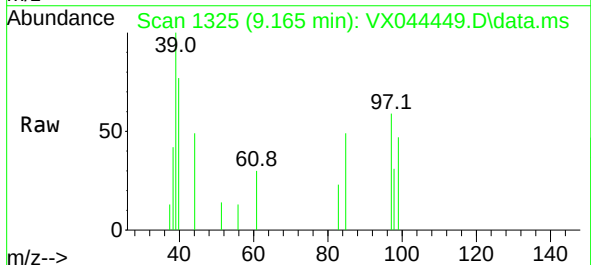
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680DL

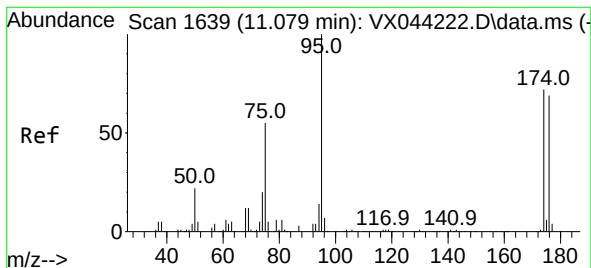
Tgt Ion: 75 Resp: 44
Ion Ratio Lower Upper
75 100
77 0.0 27.2 40.8#



#55
1,1,2-Trichloroethane
Concen: 0.351 ug/l
RT: 9.165 min Scan# 1325
Delta R.T. 0.012 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

Tgt Ion: 97 Resp: 483
Ion Ratio Lower Upper
97 100
83 38.5 65.3 97.9#
85 83.5 44.6 67.0#
99 78.8 50.2 75.2#

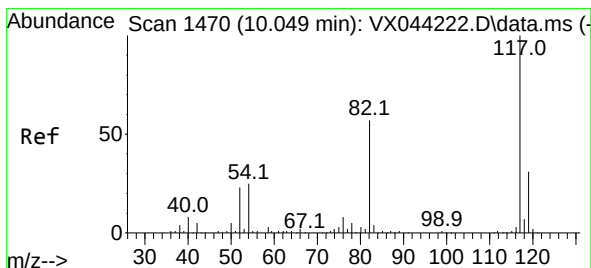
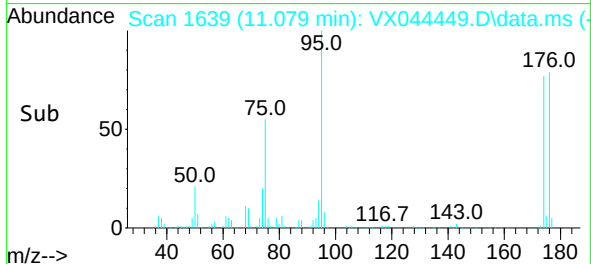
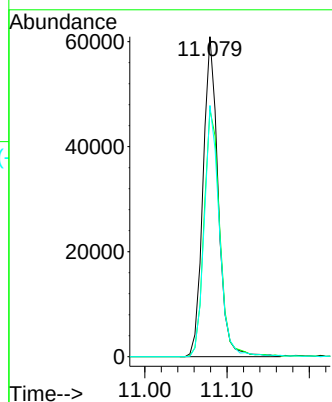
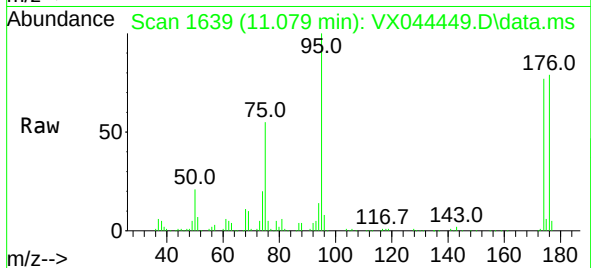




#62
4-Bromofluorobenzene
Concen: 47.010 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

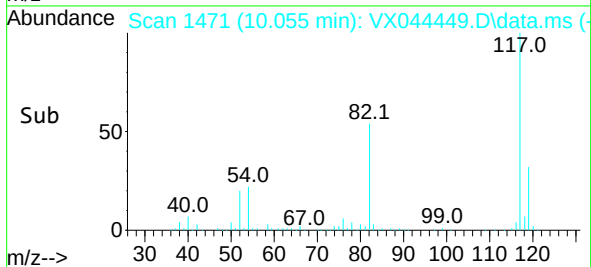
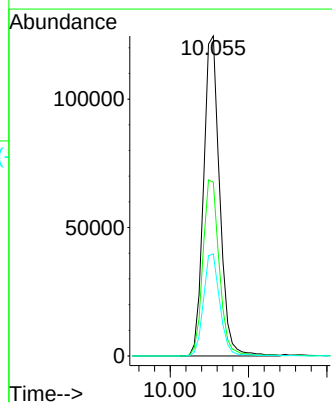
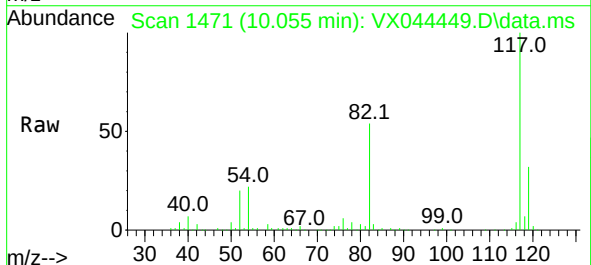
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-678-680DL

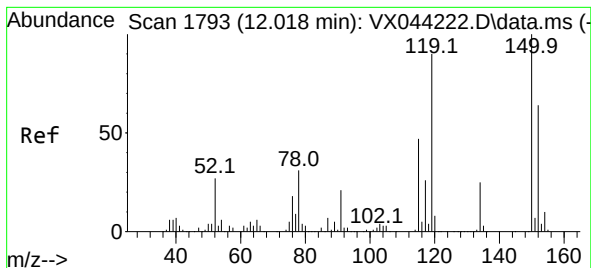
Tgt Ion: 95 Resp: 77867
Ion Ratio Lower Upper
95 100
174 80.9 0.0 145.8
176 78.5 0.0 137.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX044449.D
Acq: 20 Dec 2024 13:59

Tgt Ion: 117 Resp: 177737
Ion Ratio Lower Upper
117 100
82 54.3 45.8 68.8
119 31.9 25.0 37.4

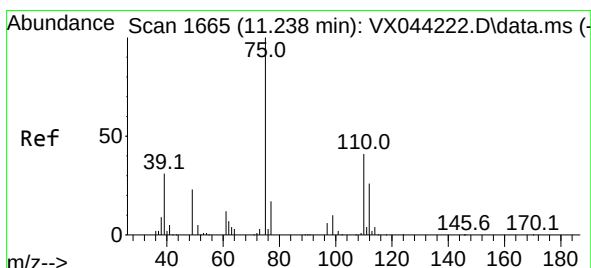
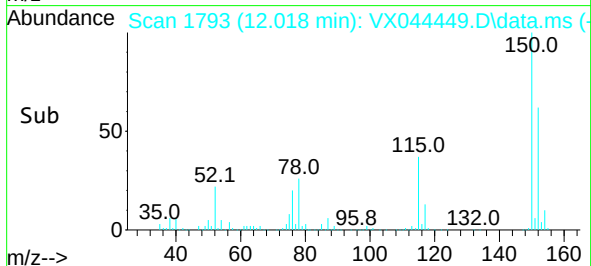
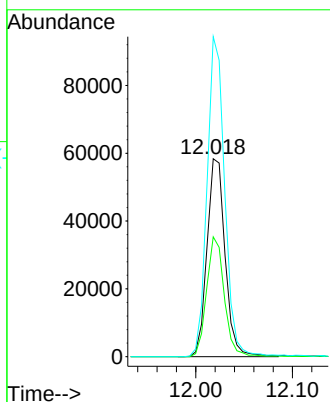
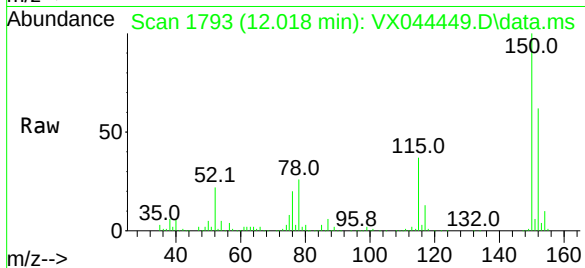




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.018 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX044449.D
 Acq: 20 Dec 2024 13:59

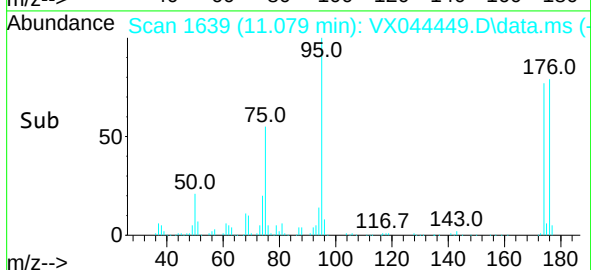
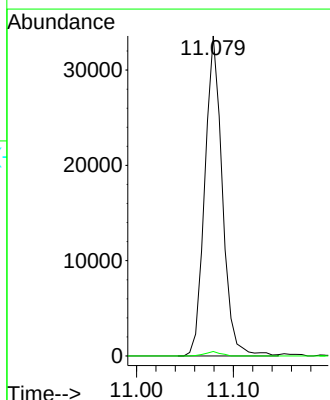
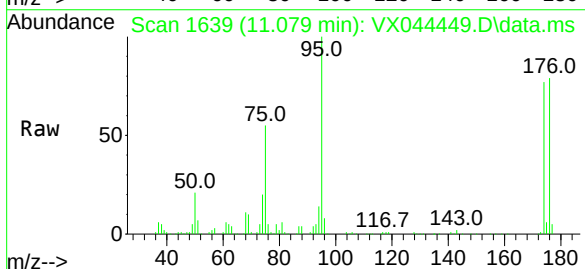
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-190A-GW-678-680DL

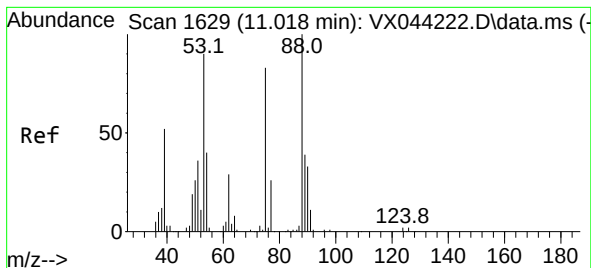
Tgt Ion:152 Resp: 76153
 Ion Ratio Lower Upper
 152 100
 115 59.0 44.5 133.3
 150 157.4 0.0 353.8



#76
 1,2,3-Trichloropropane
 Concen: 24.952 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.159 min
 Lab File: VX044449.D
 Acq: 20 Dec 2024 13:59

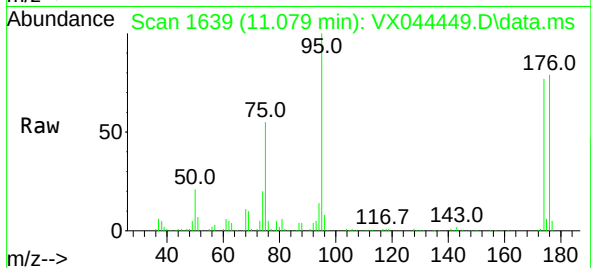
Tgt Ion: 75 Resp: 42426
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.9 62.7#



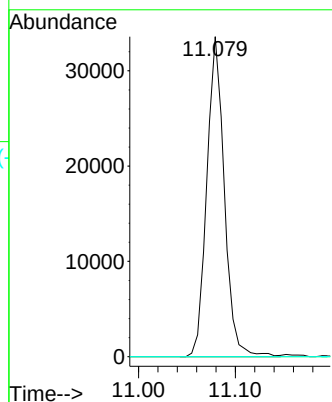
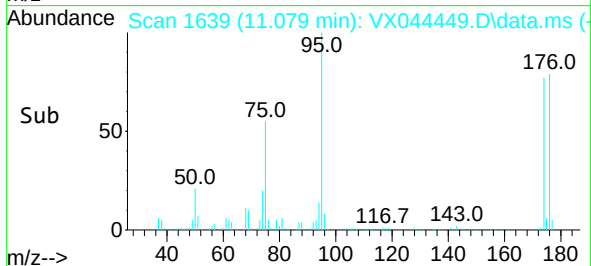


#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.101 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX044449.D
 Acq: 20 Dec 2024 13:59

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-190A-GW-678-680DL



Tgt Ion: 75 Resp: 42426
 Ion Ratio Lower Upper
 75 100
 53 0.0 93.6 140.4#
 89 0.0 37.3 55.9#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
 Data File : VX044464.D
 Acq On : 20 Dec 2024 19:49
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

Quant Time: Dec 20 22:37:33 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:28:14 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	140284	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	239068	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	206477	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	97831	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	109103	44.357	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	88.720%
35) Dibromofluoromethane	5.379	113	86675	52.347	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.700%
50) Toluene-d8	8.647	98	290046	51.923	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.840%
62) 4-Bromofluorobenzene	11.079	95	99862	51.161	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	102.320%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.166	85	104302	48.084	ug/l 95
3) Chloromethane	1.294	50	97601	47.052	ug/l 99
4) Vinyl Chloride	1.374	62	102407	47.388	ug/l 96
5) Bromomethane	1.593	94	69880	45.581	ug/l 98
6) Chloroethane	1.666	64	71114	52.848	ug/l 97
7) Trichlorofluoromethane	1.868	101	168610	39.855	ug/l 98
8) Diethyl Ether	2.136	74	61643	42.687	ug/l 98
9) 1,1,2-Trichlorotrifluo...	2.313	101	82704	48.311	ug/l 96
10) Methyl Iodide	2.441	142	113213	50.177	ug/l 98
11) Tert butyl alcohol	2.989	59	71333	205.778	ug/l 100
12) 1,1-Dichloroethene	2.306	96	78622	50.001	ug/l 95
13) Acrolein	2.239	56	111786	222.774	ug/l 98
14) Allyl chloride	2.654	41	124514	47.541	ug/l 97
15) Acrylonitrile	3.062	53	217189	226.182	ug/l 98
16) Acetone	2.386	43	189212	188.692	ug/l 95
17) Carbon Disulfide	2.502	76	152826	51.130	ug/l 100
18) Methyl Acetate	2.709	43	120686	46.678	ug/l 97
19) Methyl tert-butyl Ether	3.117	73	276668	45.089	ug/l 99
20) Methylene Chloride	2.782	84	89276	47.401	ug/l 93
21) trans-1,2-Dichloroethene	3.087	96	81078	48.517	ug/l 99
22) Diisopropyl ether	3.764	45	265503	45.018	ug/l 98
23) Vinyl Acetate	3.721	43	1167584	243.510	ug/l 98
24) 1,1-Dichloroethane	3.605	63	157858	48.018	ug/l 99
25) 2-Butanone	4.562	43	303982	213.237	ug/l 98
26) 2,2-Dichloropropane	4.471	77	116211	43.513	ug/l 98
27) cis-1,2-Dichloroethene	4.483	96	100836	47.511	ug/l 95
28) Bromochloromethane	4.891	49	71526	44.369	ug/l 95
29) Tetrahydrofuran	5.007	42	194494	212.557	ug/l 99
30) Chloroform	5.093	83	166909	45.189	ug/l 99
31) Cyclohexane	5.464	56	122203	46.033	ug/l 96
32) 1,1,1-Trichloroethane	5.379	97	144394	47.095	ug/l 99
36) 1,1-Dichloropropene	5.684	75	104911	49.017	ug/l 97
37) Ethyl Acetate	4.721	43	127468	48.180	ug/l 100
38) Carbon Tetrachloride	5.666	117	118357	51.365	ug/l 99
39) Methylcyclohexane	7.373	83	131438	51.370	ug/l 96
40) Benzene	6.031	78	333117	51.262	ug/l 99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
 Data File : VX044464.D
 Acq On : 20 Dec 2024 19:49
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

Quant Time: Dec 20 22:37:33 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:28:14 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	66592	47.401	ug/l	98
42) 1,2-Dichloroethane	6.080	62	127634	47.680	ug/l	98
43) Isopropyl Acetate	6.342	43	198680	48.047	ug/l	98
44) Trichloroethene	7.117	130	86021	53.083	ug/l	93
45) 1,2-Dichloropropane	7.428	63	82383	49.622	ug/l	96
46) Dibromomethane	7.574	93	65924	51.184	ug/l	94
47) Bromodichloromethane	7.818	83	117278	52.723	ug/l	100
48) Methyl methacrylate	7.690	41	94575	47.115	ug/l	96
49) 1,4-Dioxane	7.659	88	33398	1003.530	ug/l	93
51) 4-Methyl-2-Pentanone	8.574	43	625919	235.413	ug/l	99
52) Toluene	8.714	92	204328	50.071	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	115268	48.388	ug/l	95
54) cis-1,3-Dichloropropene	8.366	75	127004	52.437	ug/l	99
55) 1,1,2-Trichloroethane	9.147	97	82378	50.814	ug/l	96
56) Ethyl methacrylate	9.116	69	131845	51.516	ug/l	95
57) 1,3-Dichloropropane	9.305	76	140522	49.799	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	314516	243.652	ug/l	98
59) 2-Hexanone	9.433	43	454909	236.376	ug/l	99
60) Dibromochloromethane	9.519	129	86219	50.206	ug/l	99
61) 1,2-Dibromoethane	9.604	107	87547	53.053	ug/l	98
64) Tetrachloroethene	9.269	164	70888	51.727	ug/l	97
65) Chlorobenzene	10.079	112	225888	51.056	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	79060	55.601	ug/l	99
67) Ethyl Benzene	10.189	91	385756	50.462	ug/l	96
68) m/p-Xylenes	10.299	106	294612	105.028	ug/l	95
69) o-Xylene	10.640	106	146149	51.494	ug/l	93
70) Styrene	10.653	104	240058	52.761	ug/l	96
71) Bromoform	10.799	173	51823	51.900	ug/l #	99
73) Isopropylbenzene	10.957	105	374548	50.011	ug/l	100
74) N-amyl acetate	10.842	43	168135	48.576	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	125030	48.065	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	131971	60.417	ug/l	84
77) Bromobenzene	11.195	156	94262	51.903	ug/l	94
78) n-propylbenzene	11.305	91	417465	50.432	ug/l	98
79) 2-Chlorotoluene	11.360	91	253139	47.285	ug/l	96
80) 1,3,5-Trimethylbenzene	11.451	105	309218	49.787	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	32407	43.348	ug/l	95
82) 4-Chlorotoluene	11.451	91	289306	48.802	ug/l	98
83) tert-Butylbenzene	11.713	119	312731	50.950	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	308415	50.564	ug/l	98
85) sec-Butylbenzene	11.890	105	376639	50.546	ug/l	99
86) p-Isopropyltoluene	12.006	119	319422	51.504	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	163311	51.480	ug/l	98
88) 1,4-Dichlorobenzene	12.043	146	161681	49.579	ug/l	98
89) n-Butylbenzene	12.329	91	261860	50.212	ug/l	99
90) Hexachloroethane	12.536	117	47928	52.940	ug/l	94
91) 1,2-Dichlorobenzene	12.335	146	167214	50.764	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	23250	46.042	ug/l	87
93) 1,2,4-Trichlorobenzene	13.585	180	97858	54.188	ug/l	98
94) Hexachlorobutadiene	13.725	225	40506	55.763	ug/l	98
95) Naphthalene	13.774	128	343151	48.680	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	101400	52.939	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

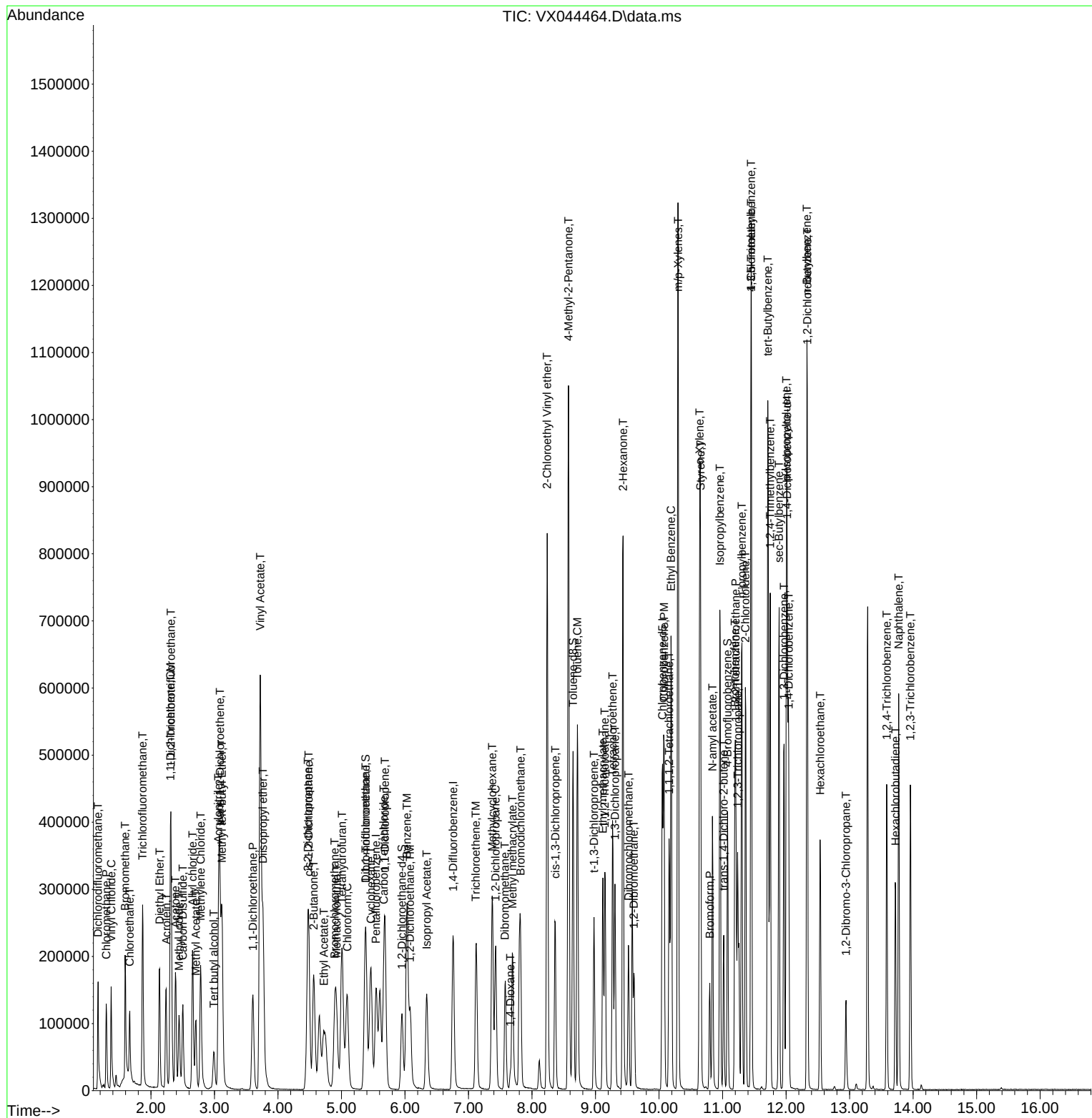
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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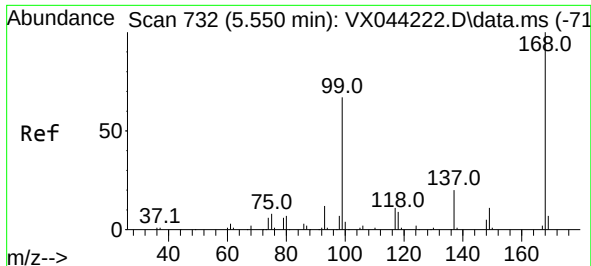
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On    : 20 Dec 2024  19:49
Operator  : JC/MD
Sample    : VSTDCCC050
Misc      : 5.0mL/MSVOA_X/WATER
ALS Vial  : 28   Sample Multiplier: 1
```

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

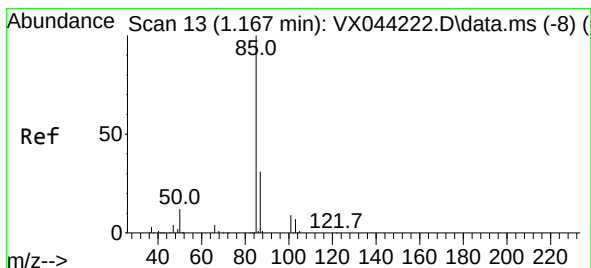
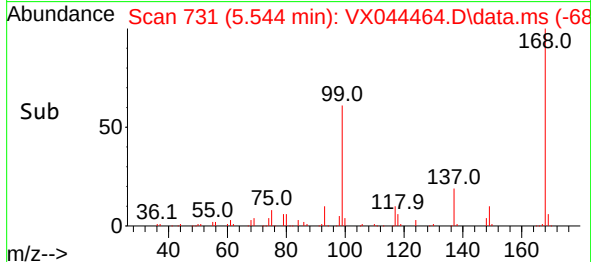
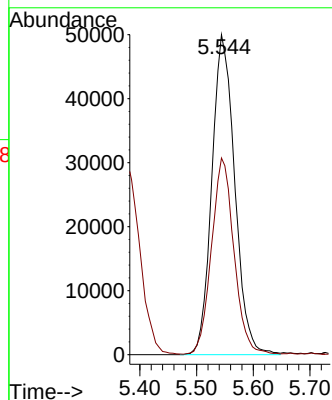
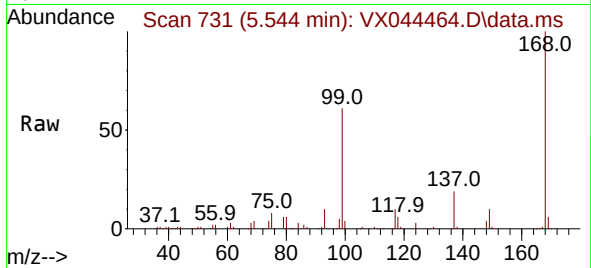




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

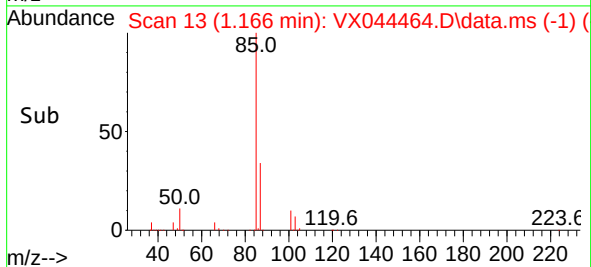
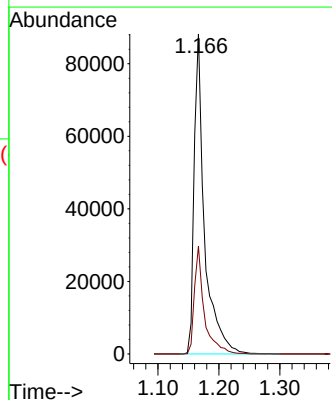
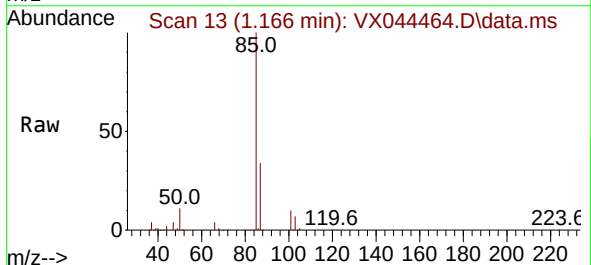
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

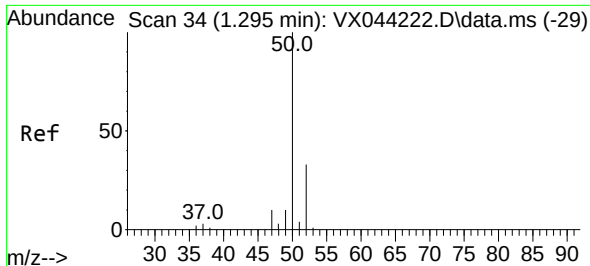
Tgt Ion:168 Resp: 140284
Ion Ratio Lower Upper
168 100
99 61.2 53.4 80.0



#2
Dichlorodifluoromethane
Concen: 48.084 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 85 Resp: 104302
Ion Ratio Lower Upper
85 100
87 33.7 15.4 46.4

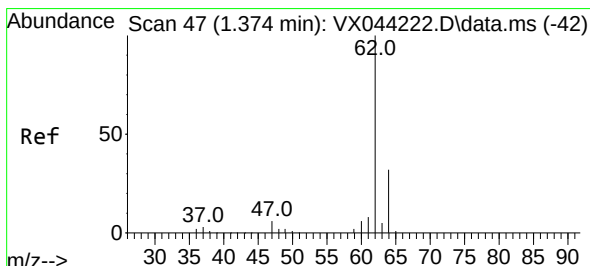
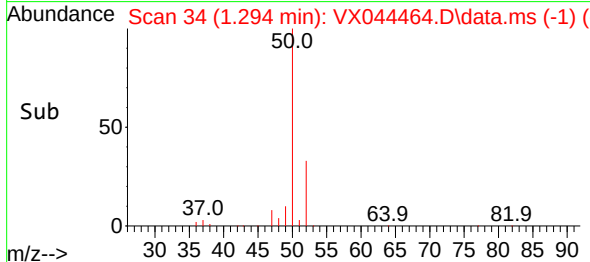
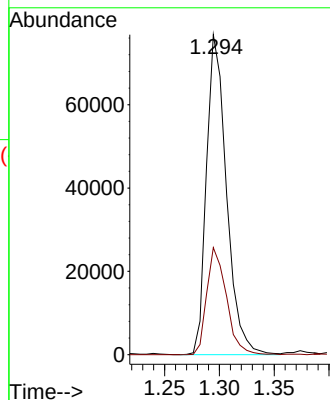
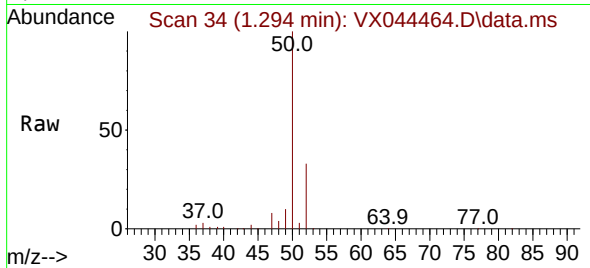




#3
Chloromethane
Concen: 47.052 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

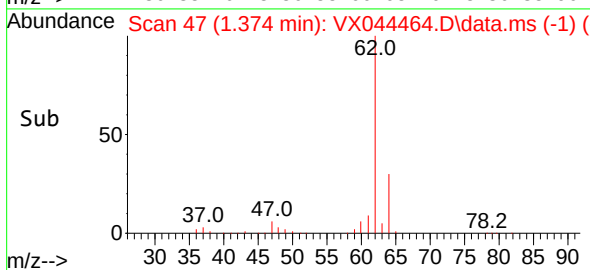
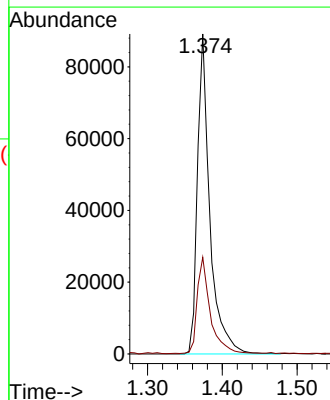
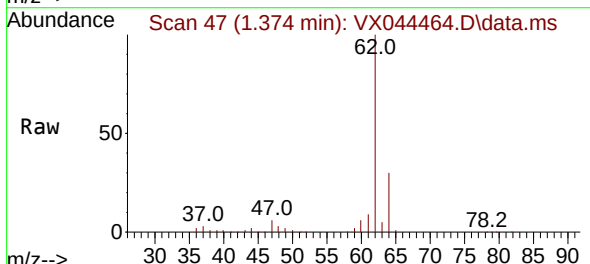
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

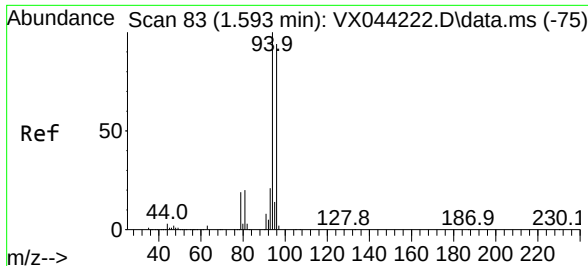
Tgt Ion: 50 Resp: 97601
Ion Ratio Lower Upper
50 100
52 33.5 26.5 39.7



#4
Vinyl Chloride
Concen: 47.388 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 62 Resp: 102407
Ion Ratio Lower Upper
62 100
64 30.0 25.7 38.5

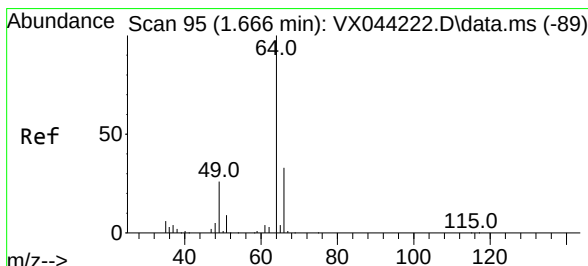
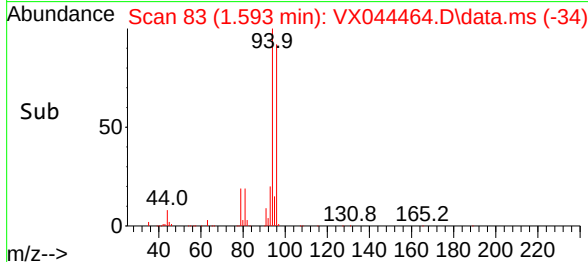
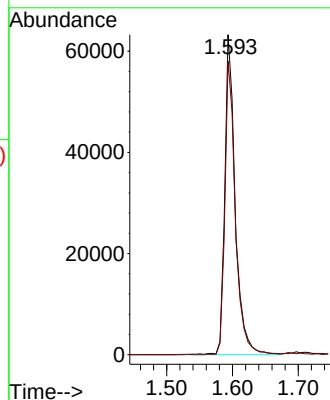
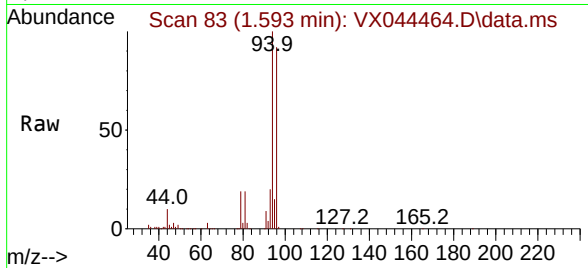




#5
Bromomethane
Concen: 45.581 ug/l
RT: 1.593 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

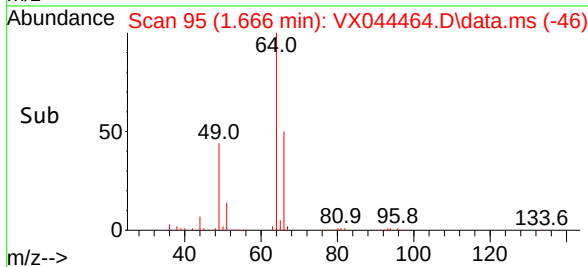
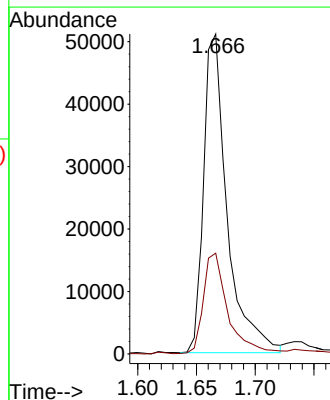
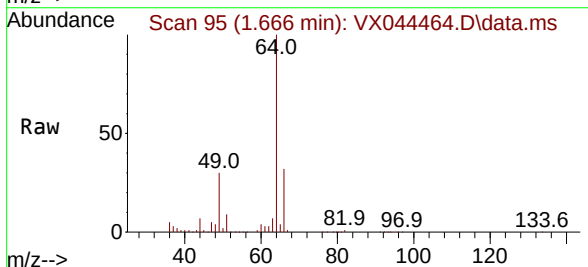
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

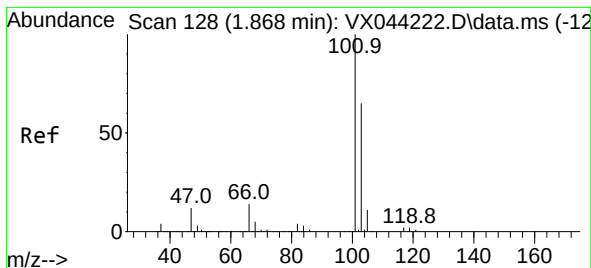
Tgt Ion: 94 Resp: 69880
Ion Ratio Lower Upper
94 100
96 91.7 74.9 112.3



#6
Chloroethane
Concen: 52.848 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 64 Resp: 71114
Ion Ratio Lower Upper
64 100
66 31.5 26.6 39.8

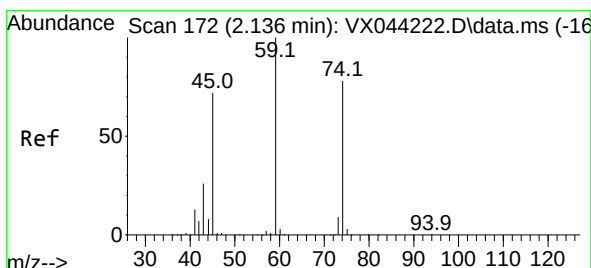
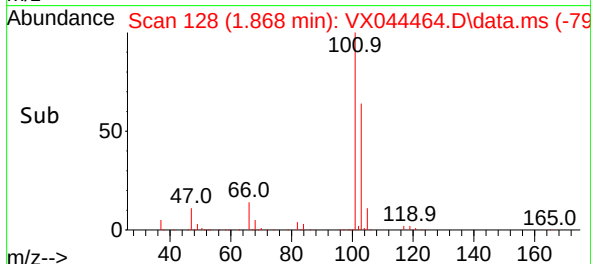
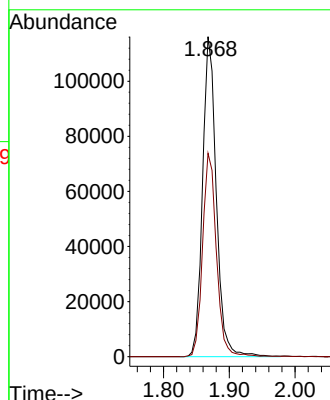
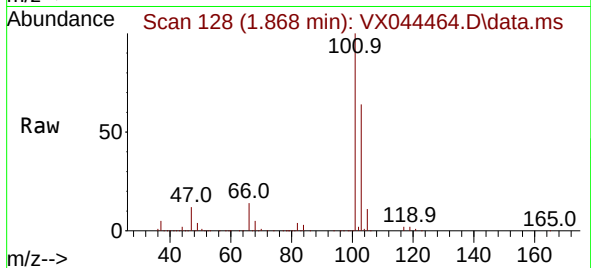




#7
 Trichlorofluoromethane
 Concen: 39.855 ug/l
 RT: 1.868 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX044464.D
 Acq: 20 Dec 2024 19:49

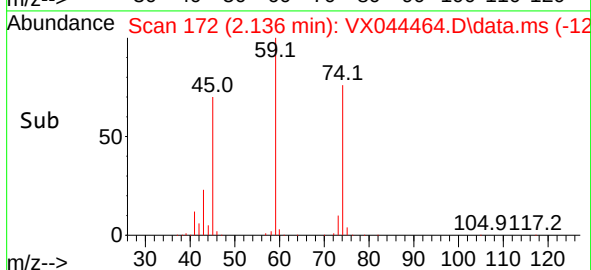
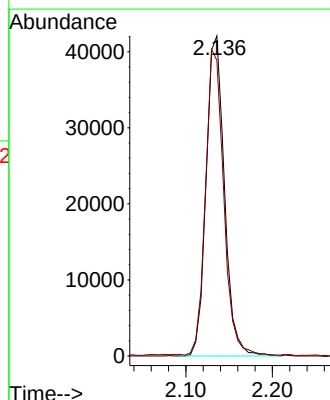
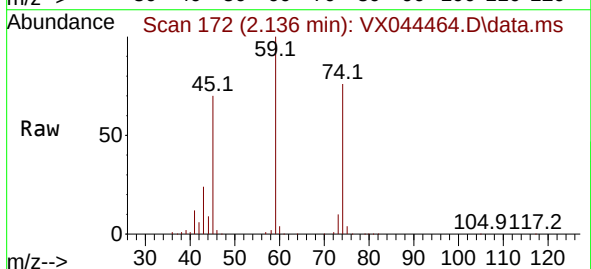
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

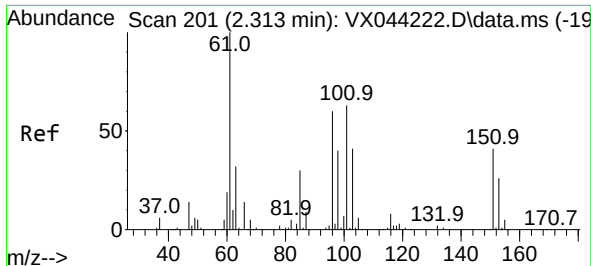
Tgt Ion:101 Resp: 168610
 Ion Ratio Lower Upper
 101 100
 103 63.5 51.8 77.8



#8
 Diethyl Ether
 Concen: 42.687 ug/l
 RT: 2.136 min Scan# 172
 Delta R.T. -0.000 min
 Lab File: VX044464.D
 Acq: 20 Dec 2024 19:49

Tgt Ion: 74 Resp: 61643
 Ion Ratio Lower Upper
 74 100
 45 94.9 48.4 145.0

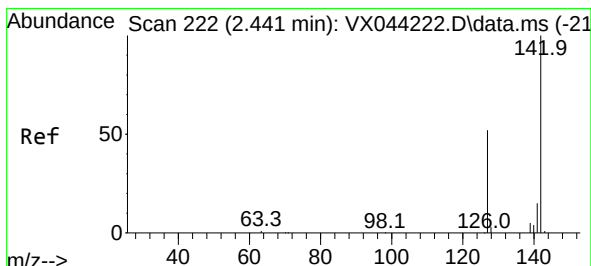
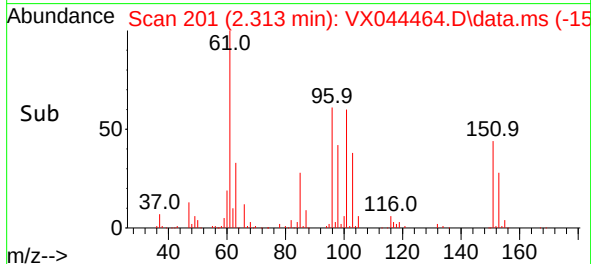
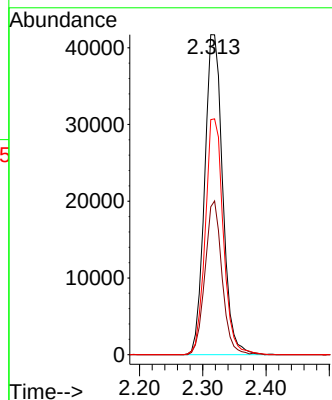
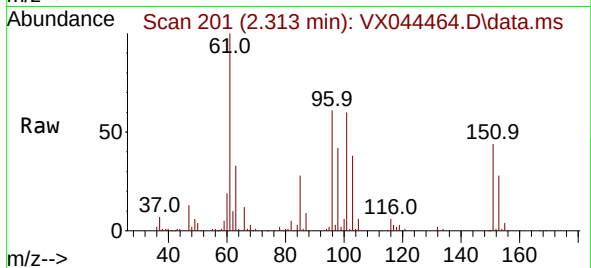




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 48.311 ug/l
 RT: 2.313 min Scan# 201
 Delta R.T. -0.000 min
 Lab File: VX044464.D
 Acq: 20 Dec 2024 19:49

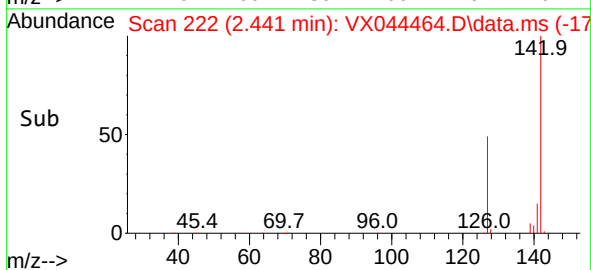
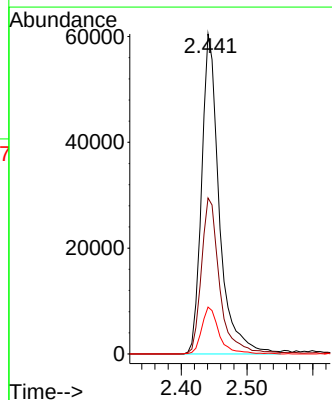
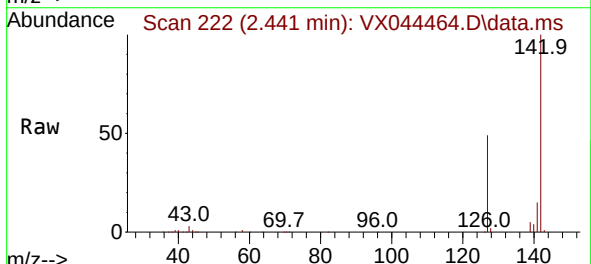
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

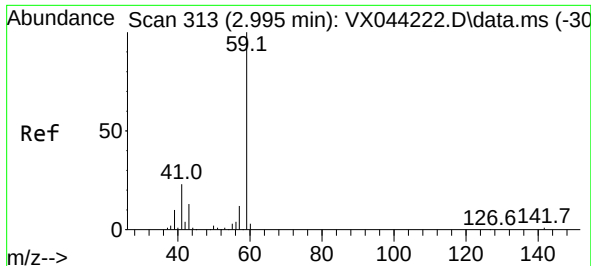
Tgt Ion:101 Resp: 82704
 Ion Ratio Lower Upper
 101 100
 85 45.4 38.5 57.7
 151 73.6 55.8 83.6



#10
 Methyl Iodide
 Concen: 50.177 ug/l
 RT: 2.441 min Scan# 222
 Delta R.T. -0.000 min
 Lab File: VX044464.D
 Acq: 20 Dec 2024 19:49

Tgt Ion:142 Resp: 113213
 Ion Ratio Lower Upper
 142 100
 127 50.5 41.8 62.8
 141 14.5 11.5 17.3

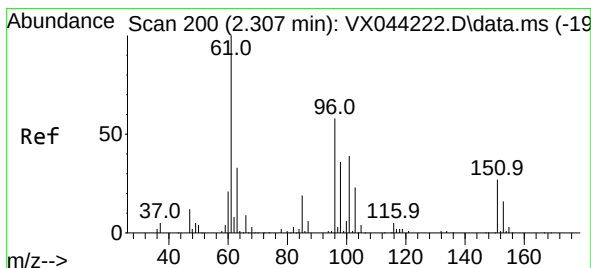
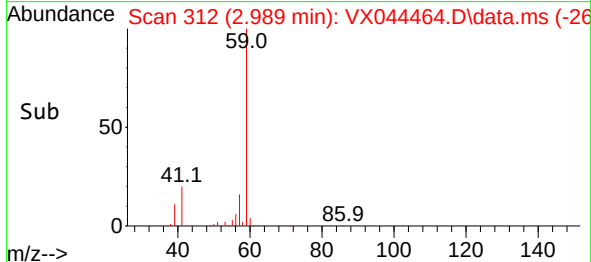
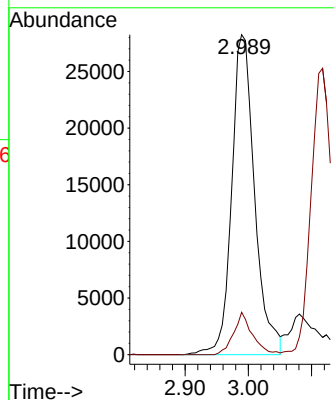
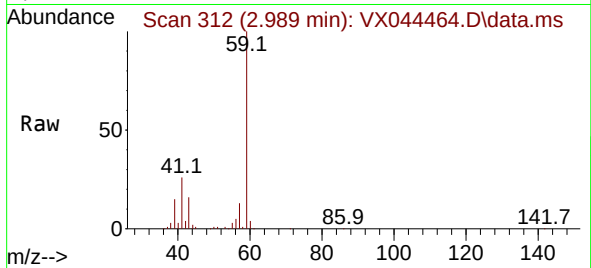




#11
Tert butyl alcohol
Concen: 205.778 ug/l
RT: 2.989 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

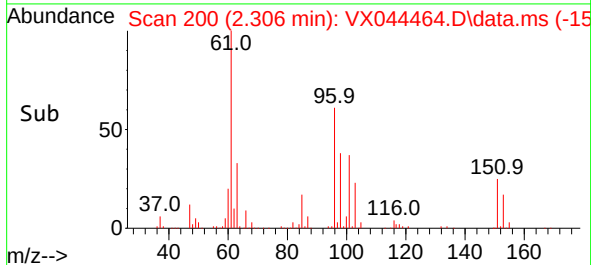
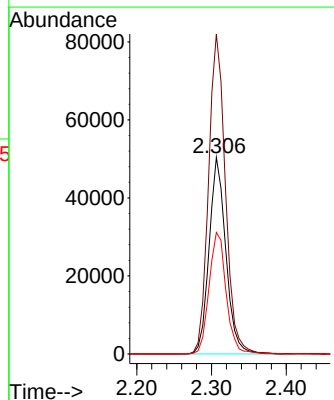
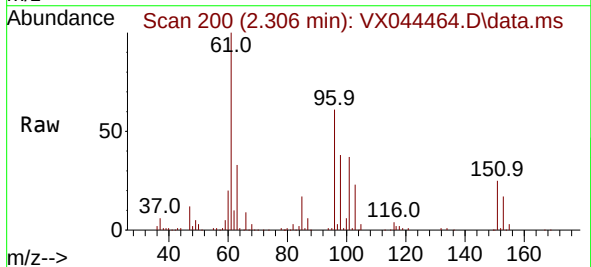
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

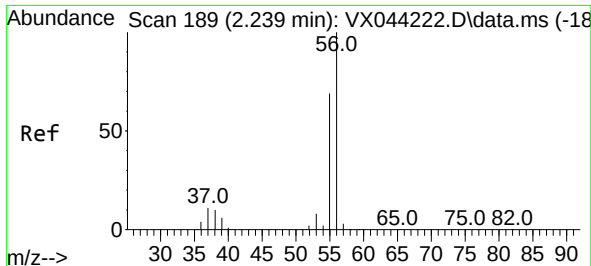
Tgt Ion: 59 Resp: 71333
Ion Ratio Lower Upper
59 100
57 10.9 8.8 13.2



#12
1,1-Dichloroethene
Concen: 50.001 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 96 Resp: 78622
Ion Ratio Lower Upper
96 100
61 162.8 138.0 207.0
98 61.8 50.0 75.0

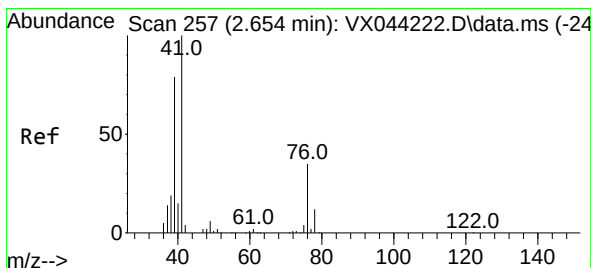
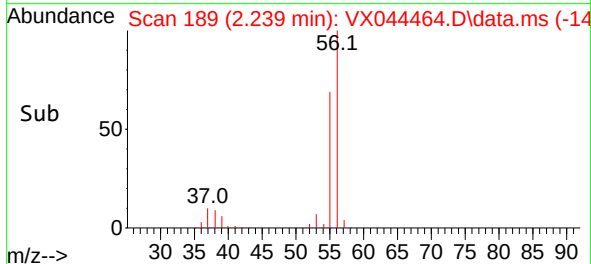
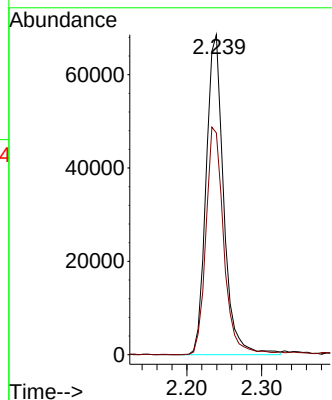
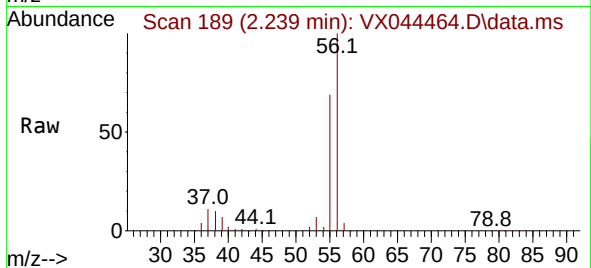




#13
Acrolein
Concen: 222.774 ug/l
RT: 2.239 min Scan# 189
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

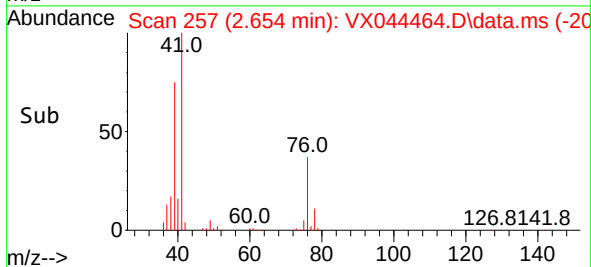
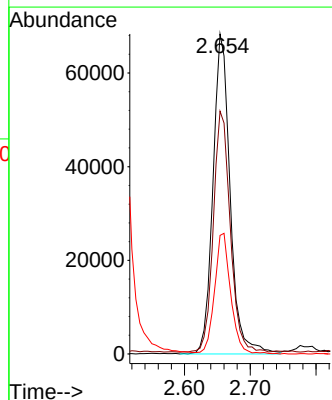
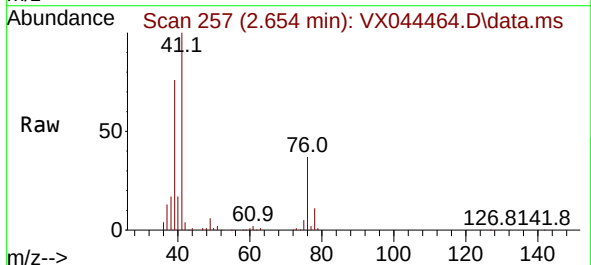
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

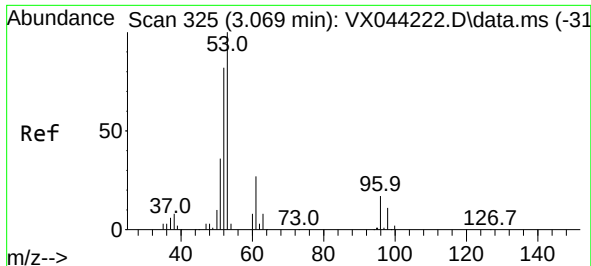
Tgt Ion: 56 Resp: 111786
Ion Ratio Lower Upper
56 100
55 72.3 56.6 84.8



#14
Allyl chloride
Concen: 47.541 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

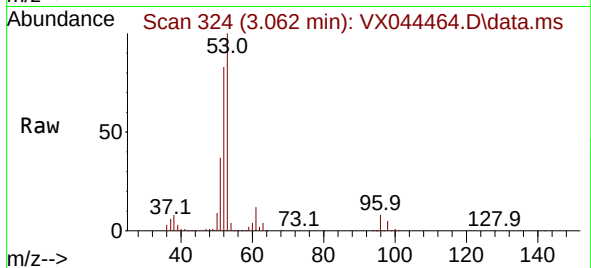
Tgt Ion: 41 Resp: 124514
Ion Ratio Lower Upper
41 100
39 74.1 61.9 92.9
76 35.4 27.4 41.2



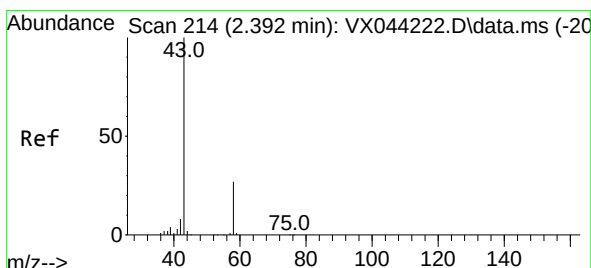
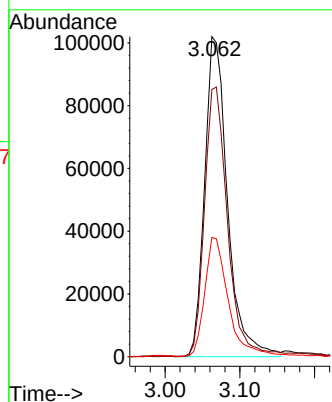
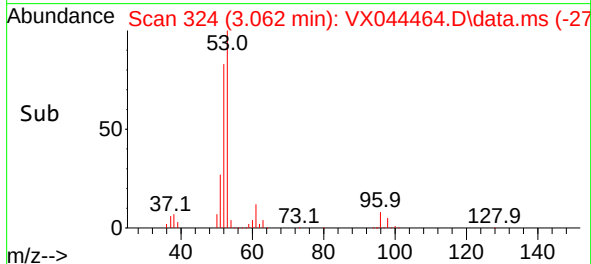


#15
Acrylonitrile
Concen: 226.182 ug/l
RT: 3.062 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

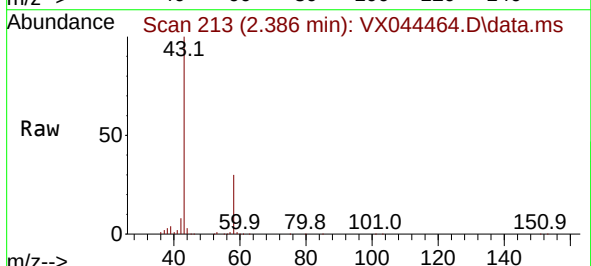
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC



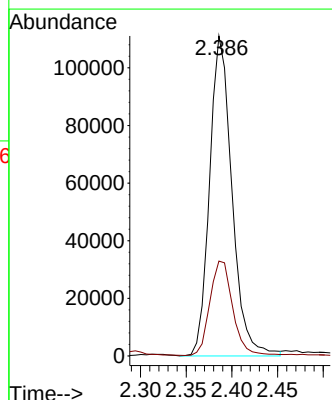
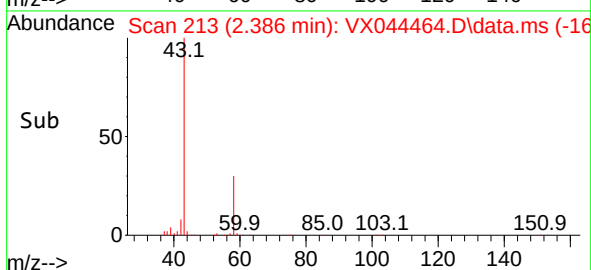
Tgt Ion: 53 Resp: 217189
Ion Ratio Lower Upper
53 100
52 86.6 67.4 101.0
51 38.5 30.3 45.5

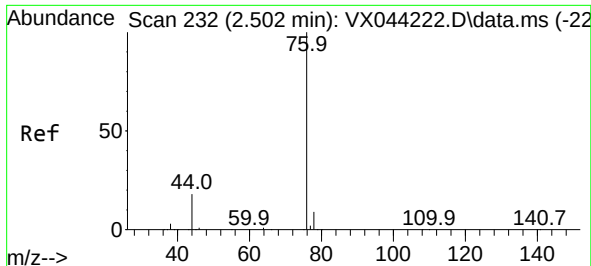


#16
Acetone
Concen: 188.692 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49



Tgt Ion: 43 Resp: 189212
Ion Ratio Lower Upper
43 100
58 29.4 21.6 32.4

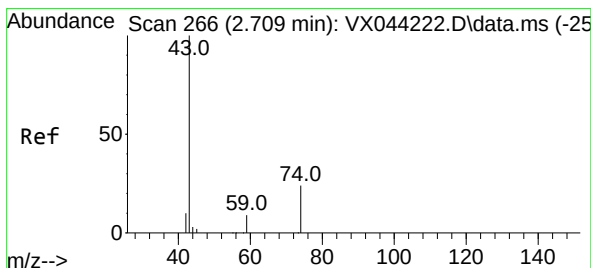
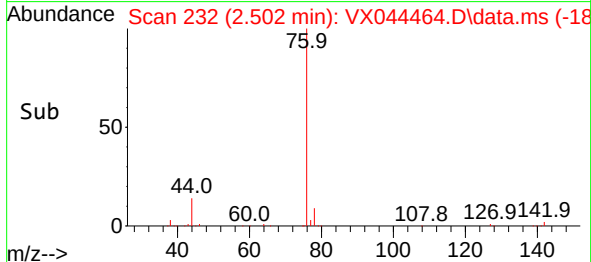
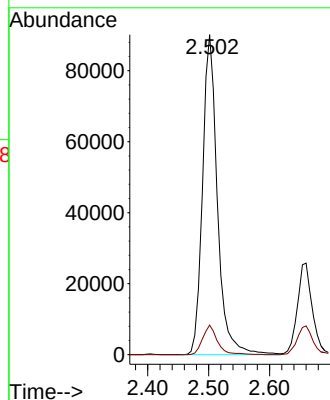
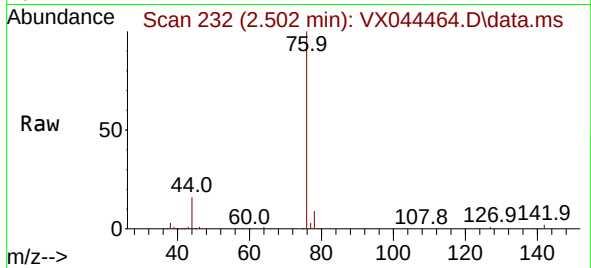




#17
Carbon Disulfide
Concen: 51.130 ug/l
RT: 2.502 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

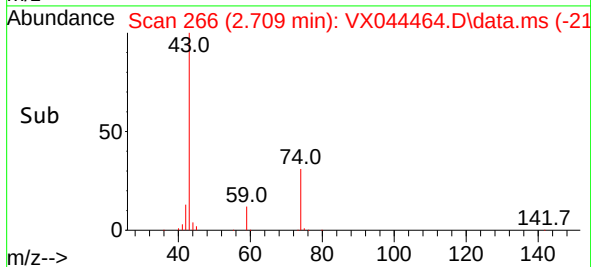
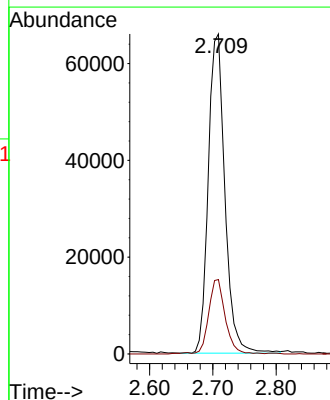
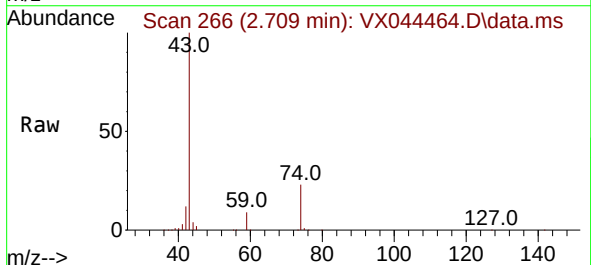
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

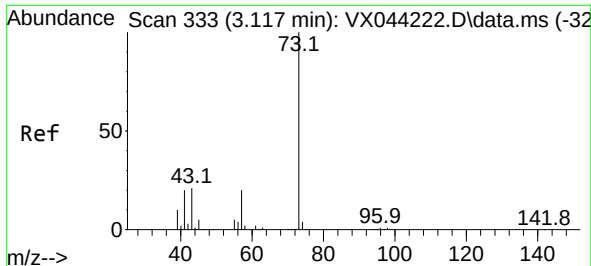
Tgt Ion: 76 Resp: 152826
Ion Ratio Lower Upper
76 100
78 9.2 7.4 11.0



#18
Methyl Acetate
Concen: 46.678 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 120686
Ion Ratio Lower Upper
43 100
74 23.4 17.7 26.5

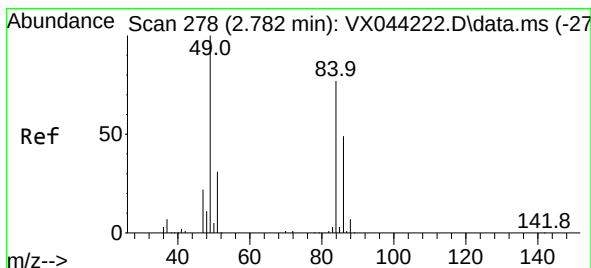
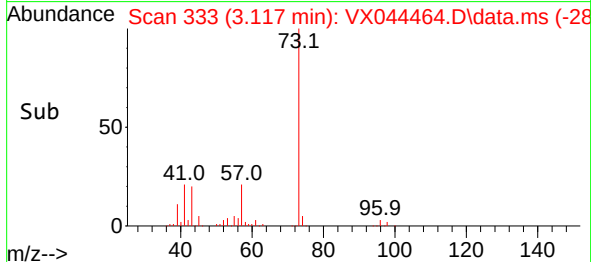
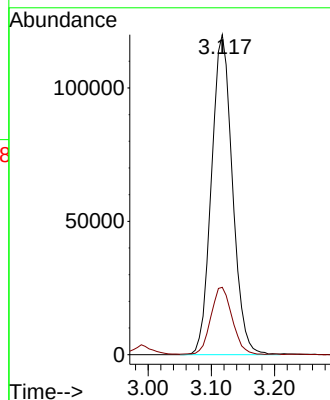
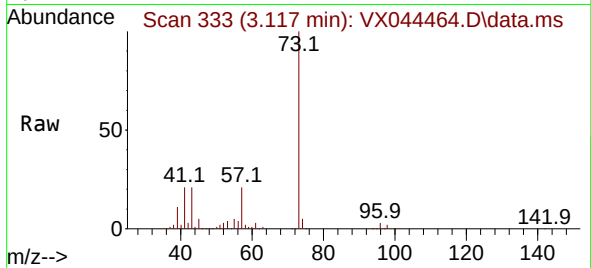




#19
Methyl tert-butyl Ether
Concen: 45.089 ug/l
RT: 3.117 min Scan# 311
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

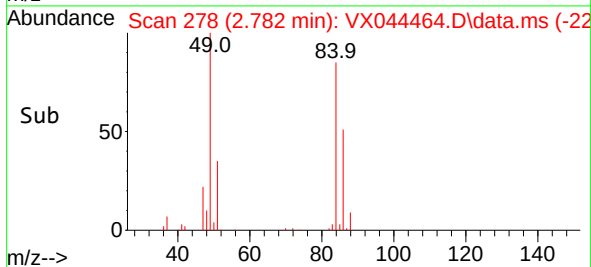
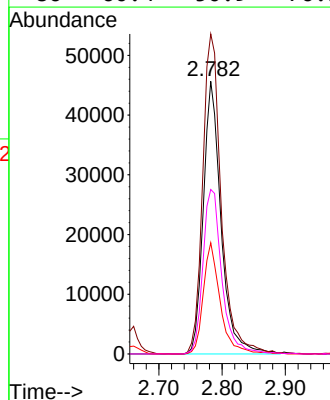
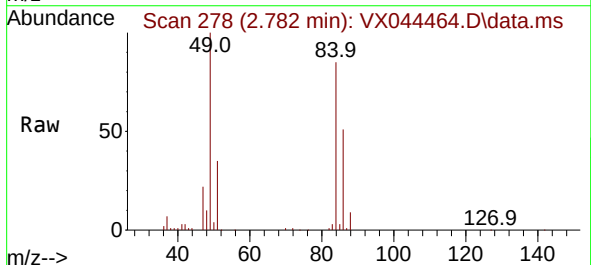
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

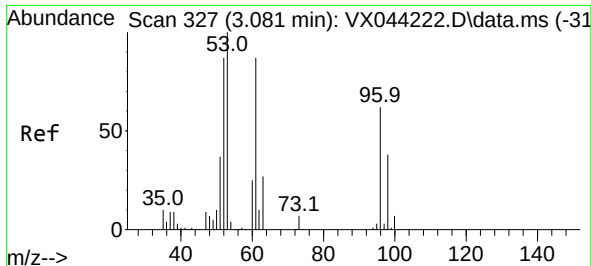
Tgt Ion: 73 Resp: 276668
Ion Ratio Lower Upper
73 100
57 21.0 16.2 24.4



#20
Methylene Chloride
Concen: 47.401 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 84 Resp: 89276
Ion Ratio Lower Upper
84 100
49 117.4 104.2 156.4
51 40.8 32.2 48.4
86 60.4 50.9 76.3

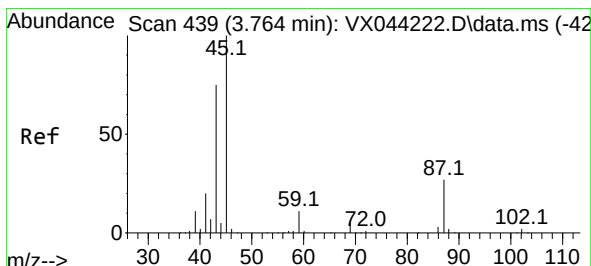
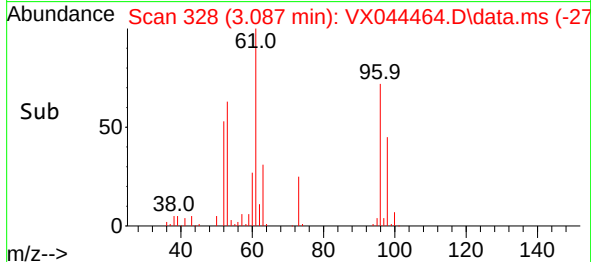
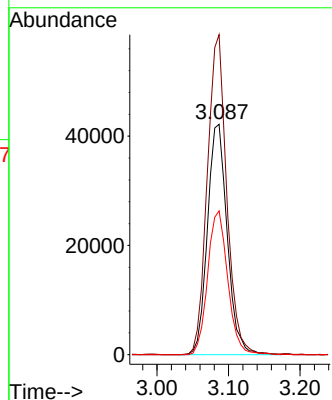
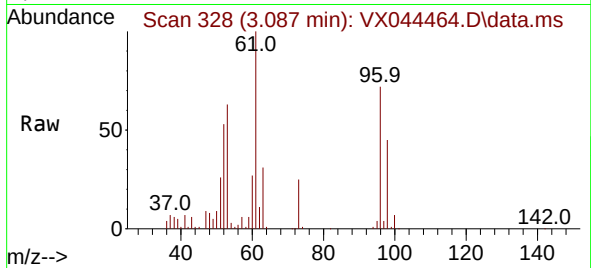




#21
trans-1,2-Dichloroethene
Concen: 48.517 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

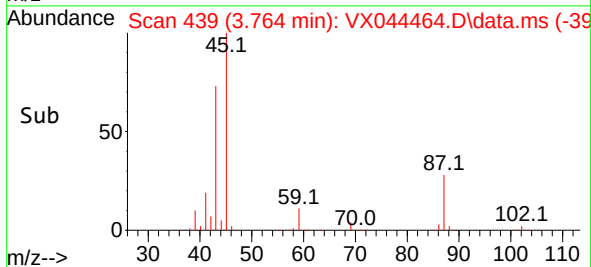
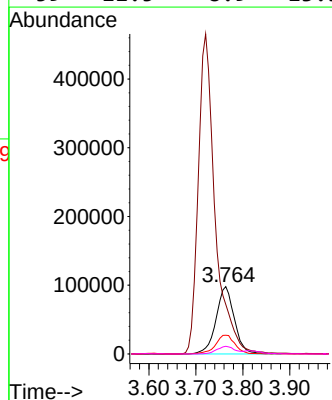
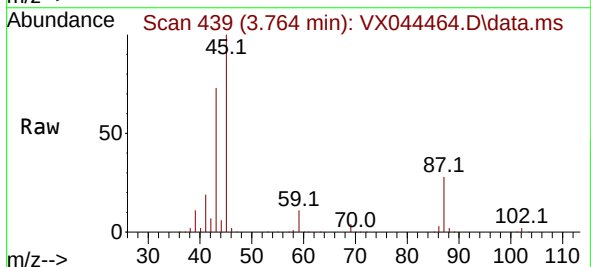
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

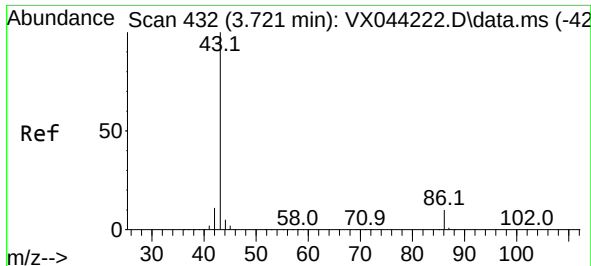
Tgt Ion: 96 Resp: 81078
Ion Ratio Lower Upper
96 100
61 138.9 112.0 168.0
98 62.4 48.8 73.2



#22
Diisopropyl ether
Concen: 45.018 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 45 Resp: 265503
Ion Ratio Lower Upper
45 100
43 73.3 60.2 90.2
87 27.7 21.2 31.8
59 11.5 8.9 13.3

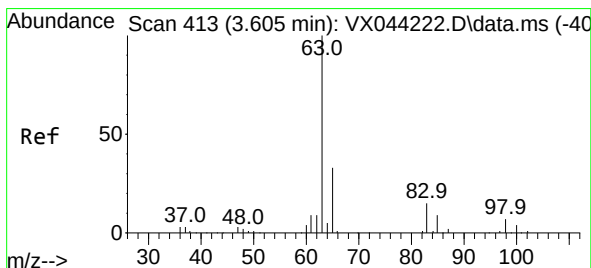
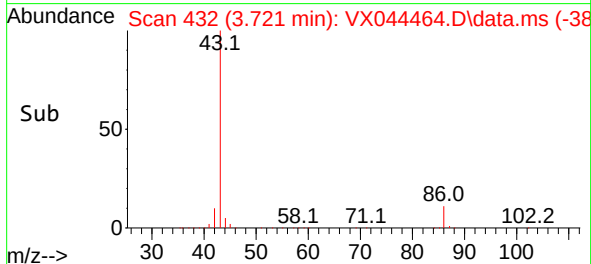
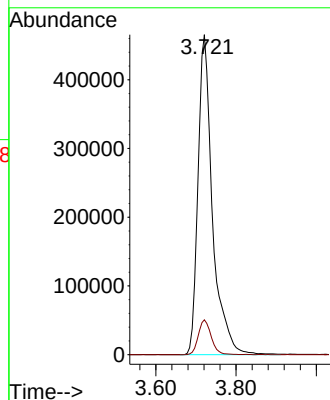
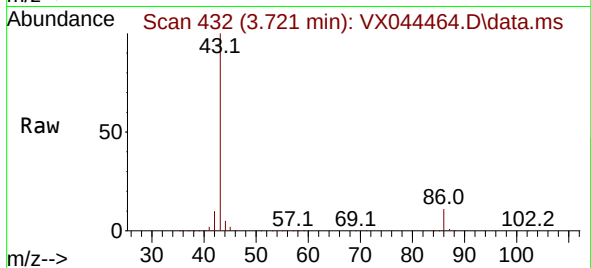




#23
Vinyl Acetate
Concen: 243.510 ug/l
RT: 3.721 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

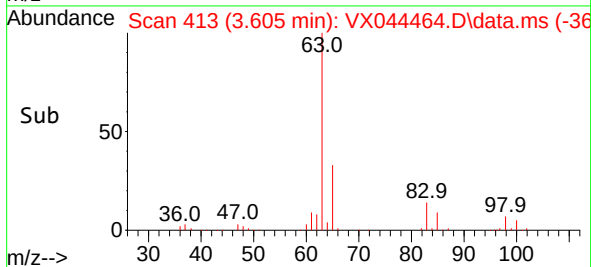
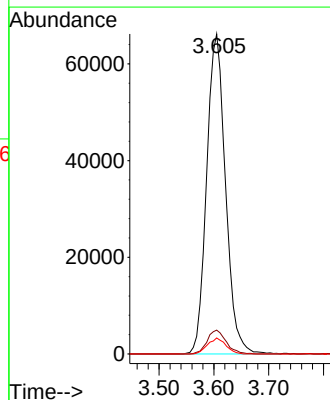
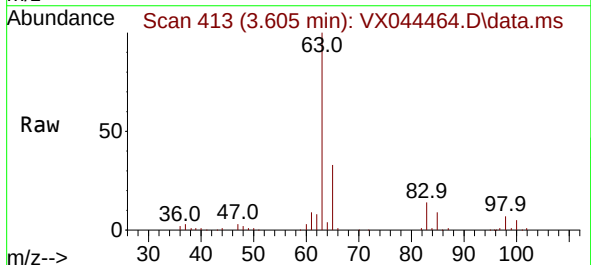
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

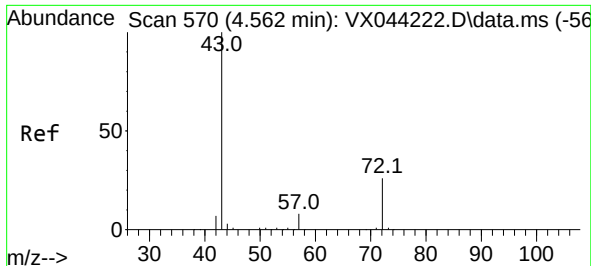
Tgt Ion: 43 Resp: 1167584
Ion Ratio Lower Upper
43 100
86 10.9 8.2 12.2



#24
1,1-Dichloroethane
Concen: 48.018 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 63 Resp: 157858
Ion Ratio Lower Upper
63 100
98 7.4 3.6 10.8
100 5.0 2.1 6.3

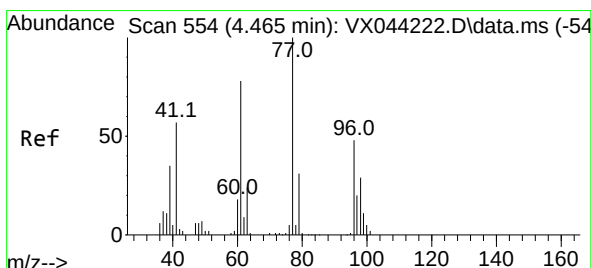
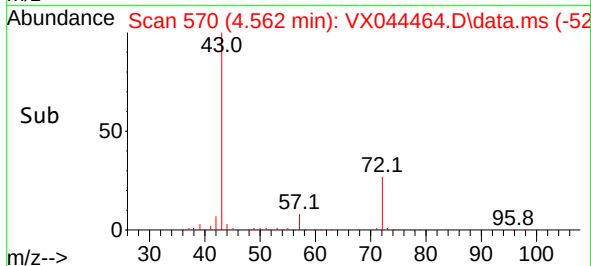
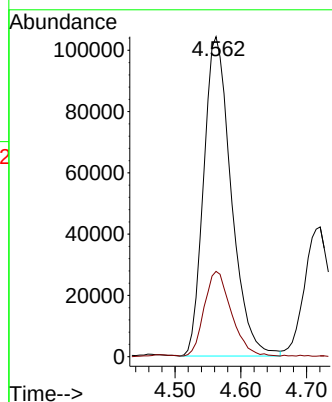
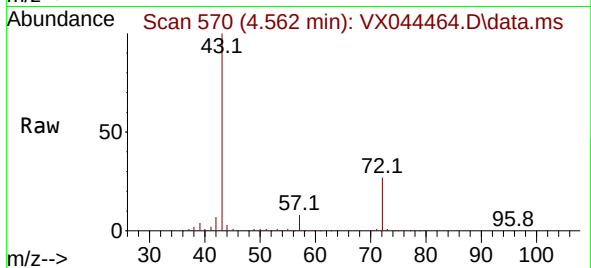




#25
2-Butanone
Concen: 213.237 ug/l
RT: 4.562 min Scan# 51
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

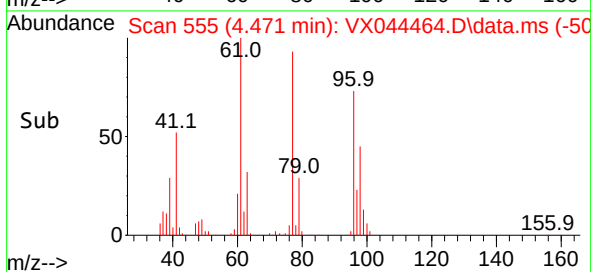
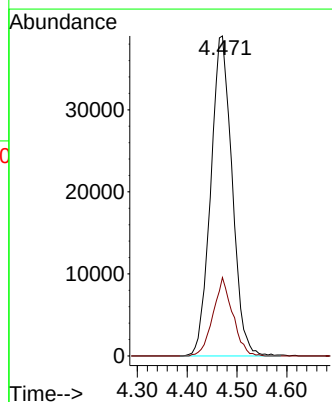
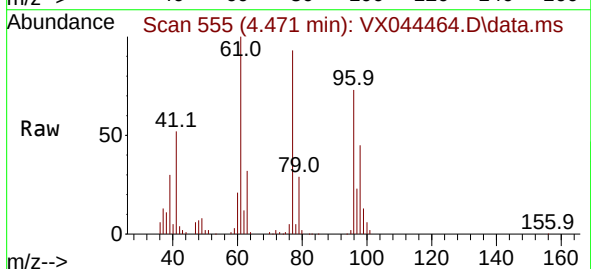
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

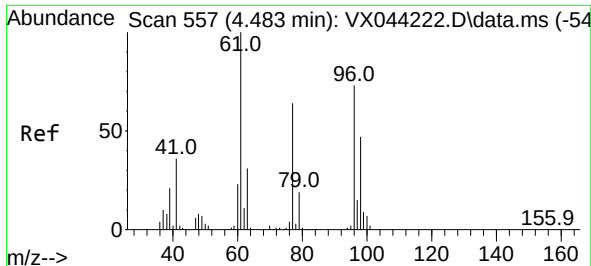
Tgt Ion: 43 Resp: 303982
Ion Ratio Lower Upper
43 100
72 26.5 20.2 30.4



#26
2,2-Dichloropropane
Concen: 43.513 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 77 Resp: 116211
Ion Ratio Lower Upper
77 100
97 22.5 10.7 32.1





#27

cis-1,2-Dichloroethene

Concen: 47.511 ug/l

RT: 4.483 min Scan# 51

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

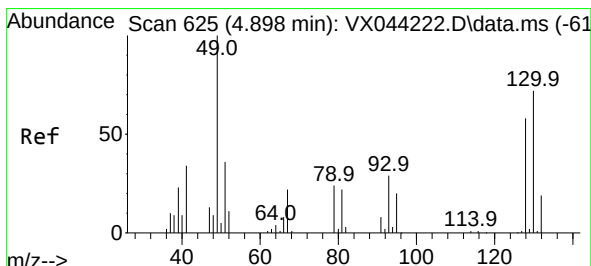
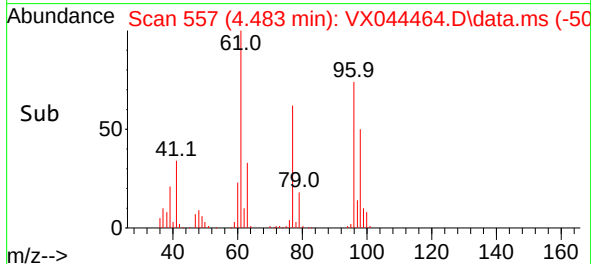
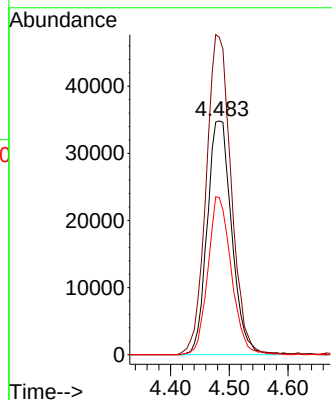
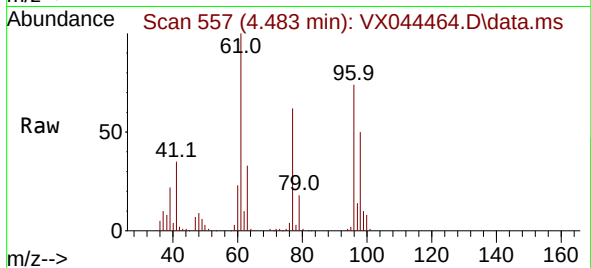
Tgt Ion: 96 Resp: 100836

Ion Ratio Lower Upper

96 100

61 139.9 0.0 299.0

98 64.5 0.0 129.0



#28

Bromochloromethane

Concen: 44.369 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.006 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

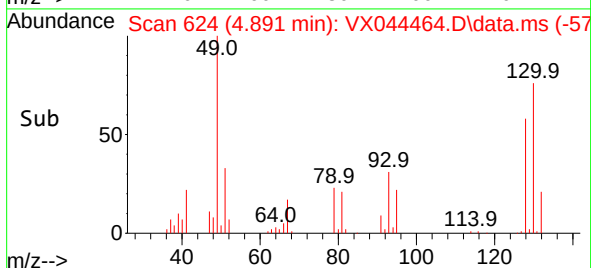
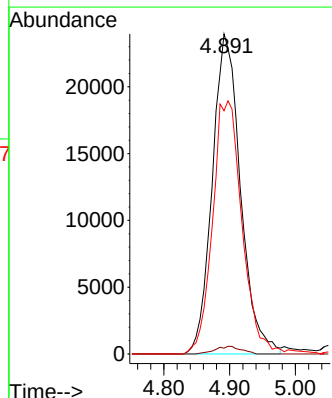
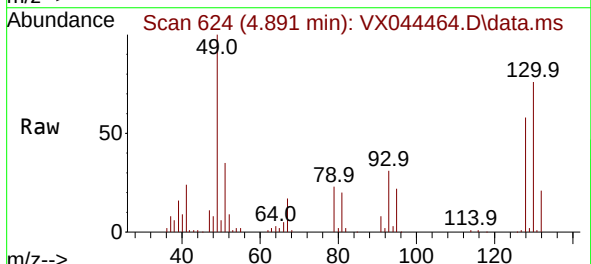
Tgt Ion: 49 Resp: 71526

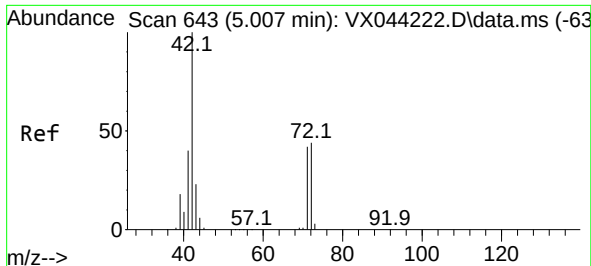
Ion Ratio Lower Upper

49 100

129 2.2 0.0 4.2

130 82.1 62.1 93.1





#29

Tetrahydrofuran

Concen: 212.557 ug/l

RT: 5.007 min Scan# 64

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

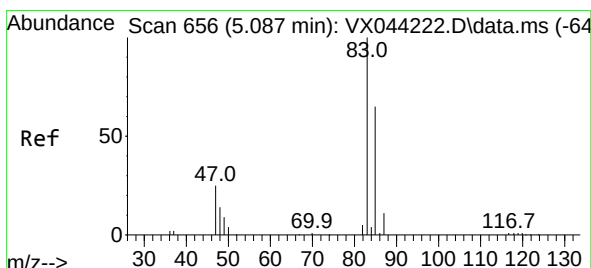
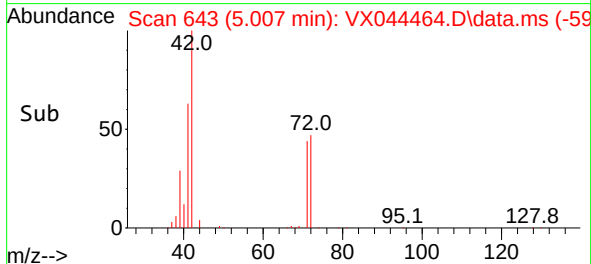
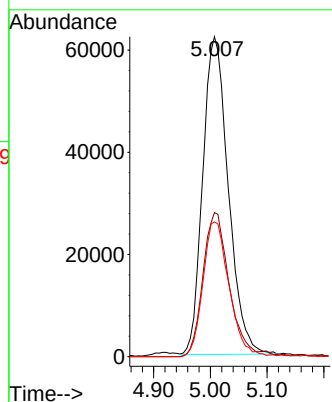
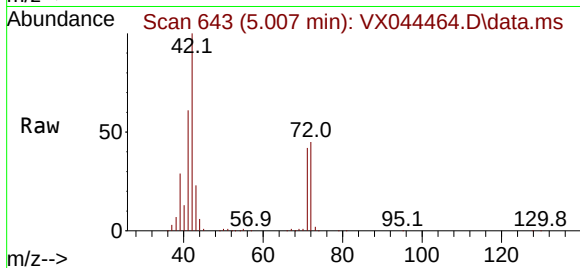
Tgt Ion: 42 Resp: 194494

Ion Ratio Lower Upper

42 100

72 46.1 37.0 55.6

71 43.4 33.6 50.4



#30

Chloroform

Concen: 45.189 ug/l

RT: 5.093 min Scan# 657

Delta R.T. 0.006 min

Lab File: VX044464.D

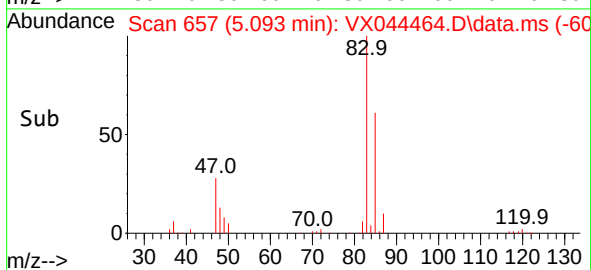
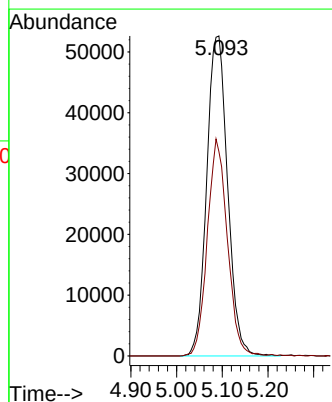
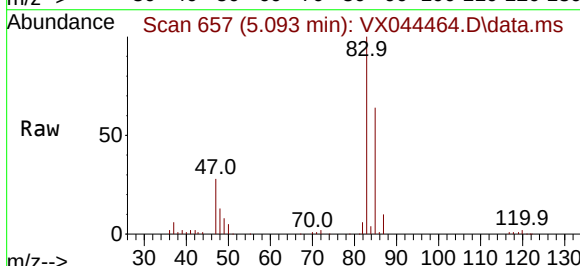
Acq: 20 Dec 2024 19:49

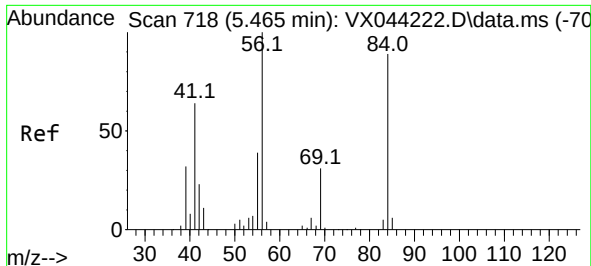
Tgt Ion: 83 Resp: 166909

Ion Ratio Lower Upper

83 100

85 63.9 51.6 77.4

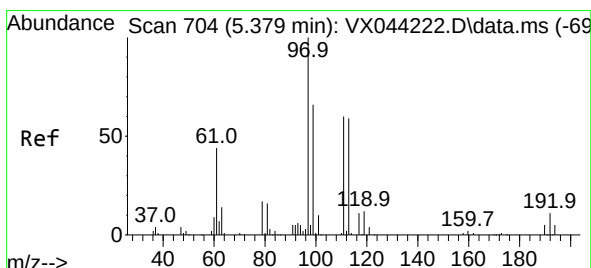
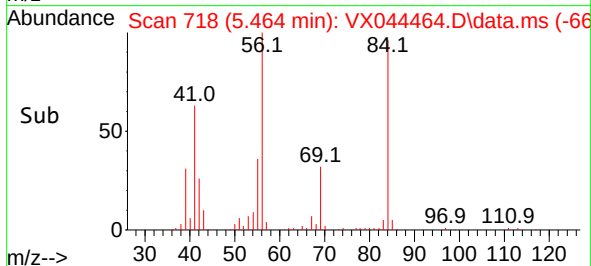
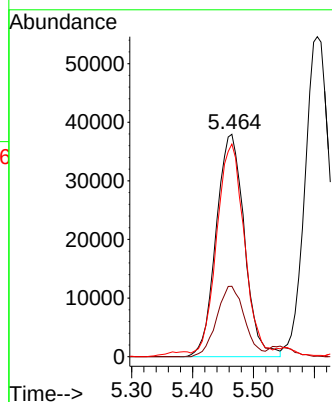
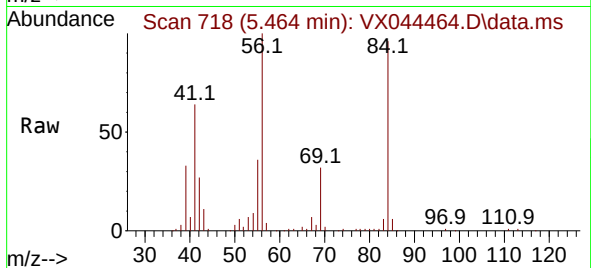




#31
Cyclohexane
Concen: 46.033 ug/l
RT: 5.464 min Scan# 718
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

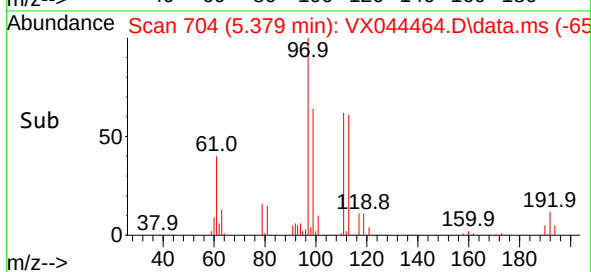
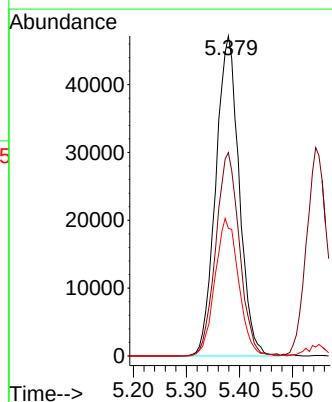
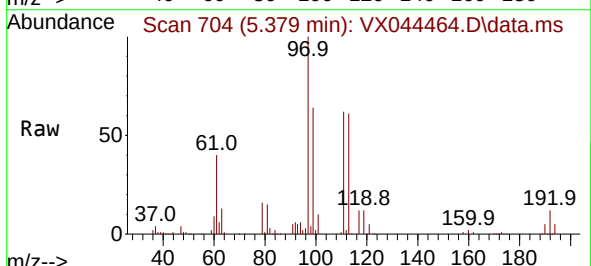
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

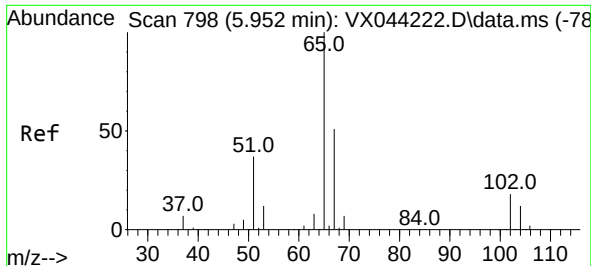
Tgt Ion:	56	Resp:	122203
Ion	Ratio	Lower	Upper
56	100		
69	31.7	24.7	37.1
84	93.5	71.0	106.6



#32
1,1,1-Trichloroethane
Concen: 47.095 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:	97	Resp:	144394
Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.8	76.2
61	43.7	35.2	52.8





#33

1,2-Dichloroethane-d4

Concen: 44.357 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

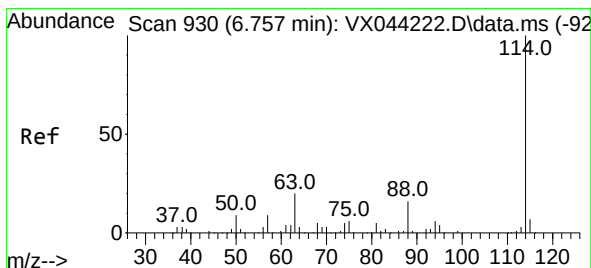
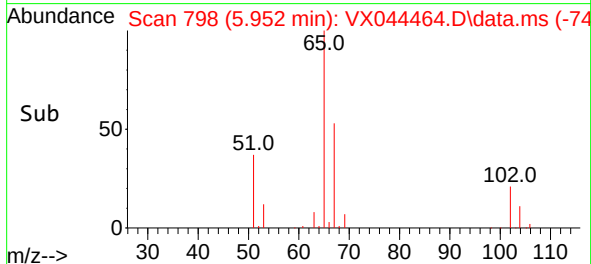
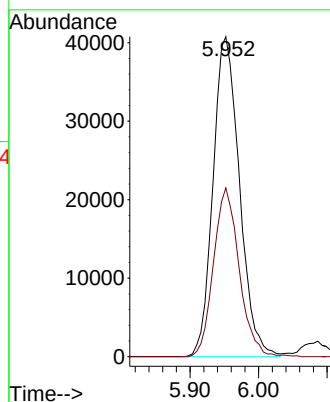
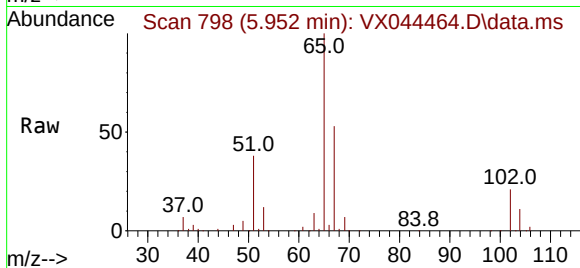
VSTDCCC050EC

Tgt Ion: 65 Resp: 109103

Ion Ratio Lower Upper

65 100

67 51.2 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

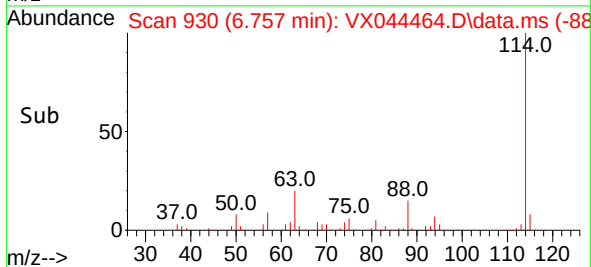
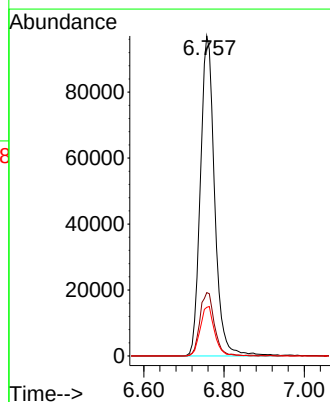
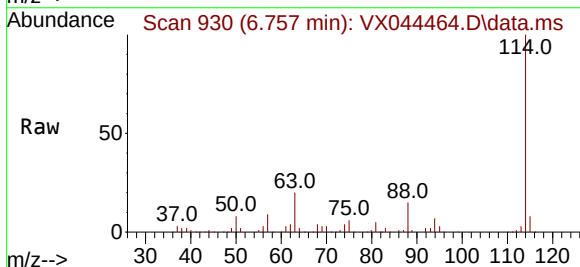
Tgt Ion: 114 Resp: 239068

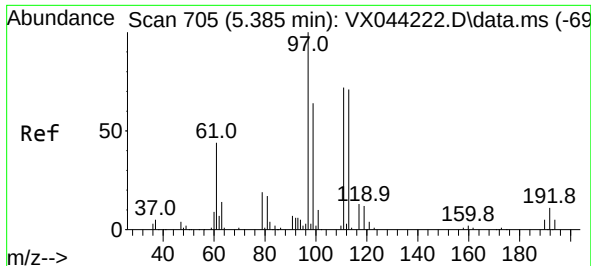
Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.6

88 15.2 0.0 31.8

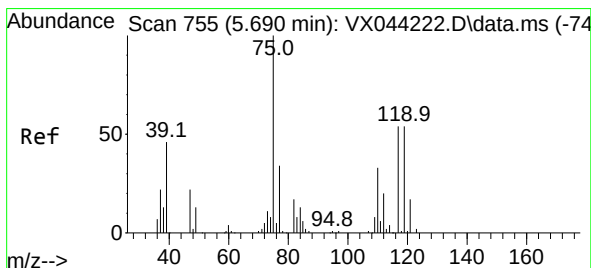
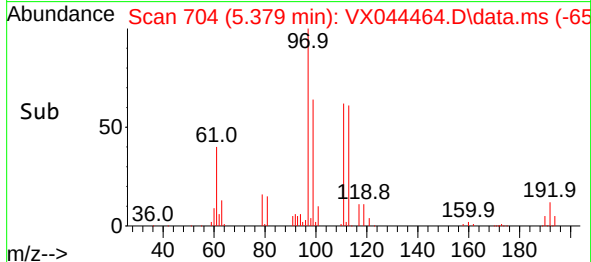
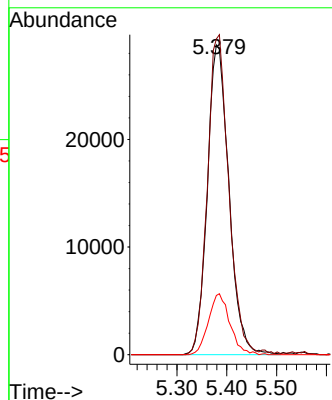
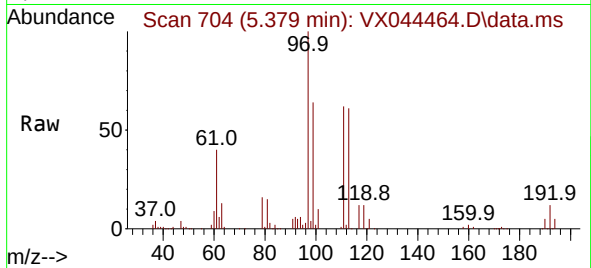




#35
Dibromofluoromethane
Concen: 52.347 ug/l
RT: 5.379 min Scan# 705
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

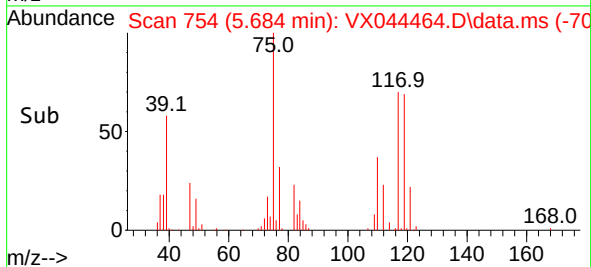
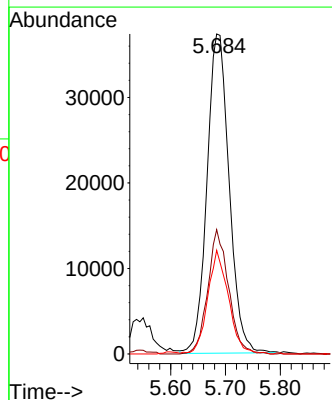
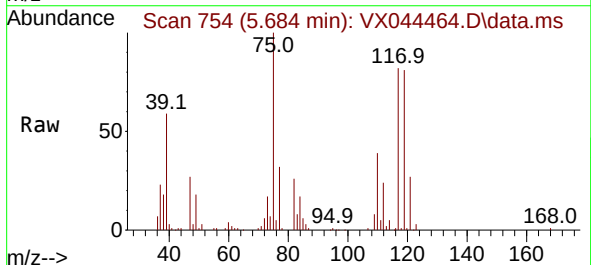
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

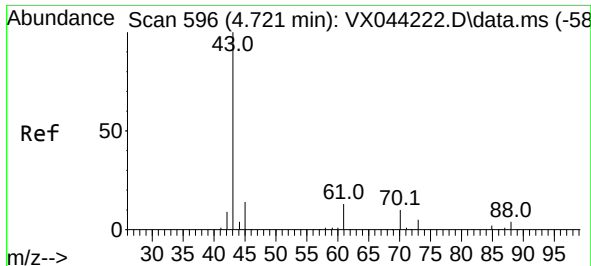
Tgt Ion:113 Resp: 86675
Ion Ratio Lower Upper
113 100
111 101.4 80.4 120.6
192 19.6 13.3 19.9



#36
1,1-Dichloropropene
Concen: 49.017 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 75 Resp: 104911
Ion Ratio Lower Upper
75 100
110 36.5 17.3 51.7
77 30.4 25.4 38.0





#37

Ethyl Acetate

Concen: 48.180 ug/l

RT: 4.721 min Scan# 596

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

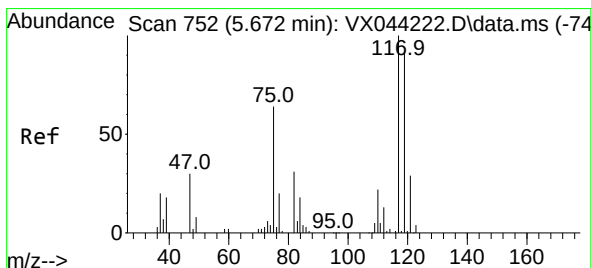
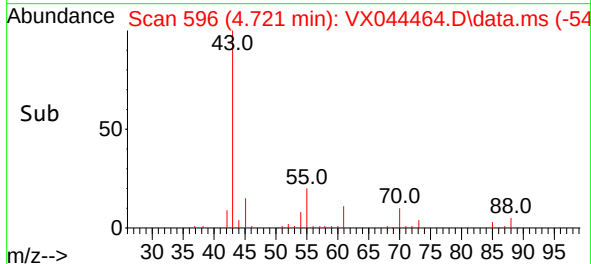
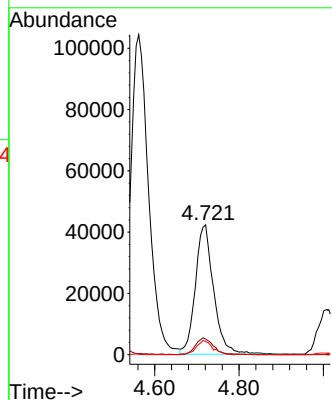
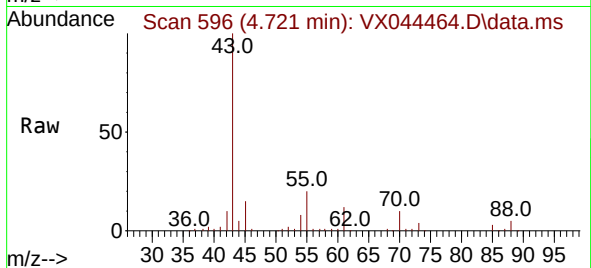
Tgt Ion: 43 Resp: 127468

Ion Ratio Lower Upper

43 100

61 12.3 9.8 14.8

70 9.7 7.7 11.5



#38

Carbon Tetrachloride

Concen: 51.365 ug/l

RT: 5.666 min Scan# 751

Delta R.T. -0.006 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

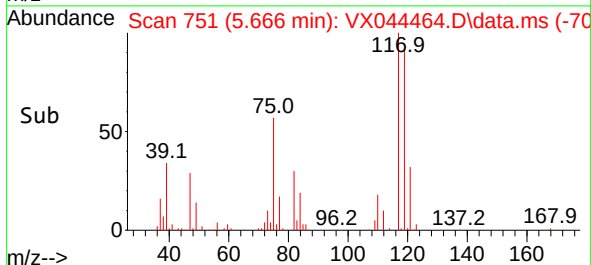
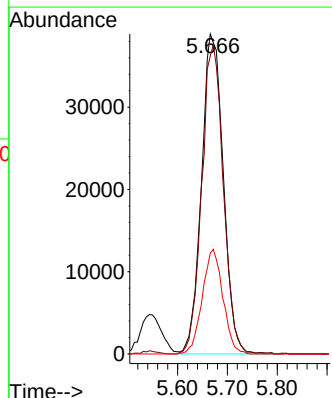
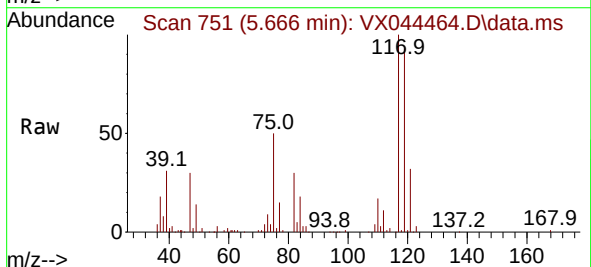
Tgt Ion: 117 Resp: 118357

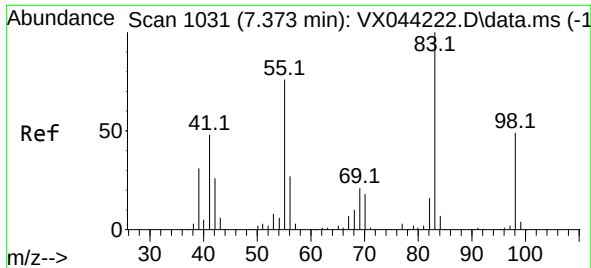
Ion Ratio Lower Upper

117 100

119 93.0 74.2 111.4

121 31.5 23.0 34.6

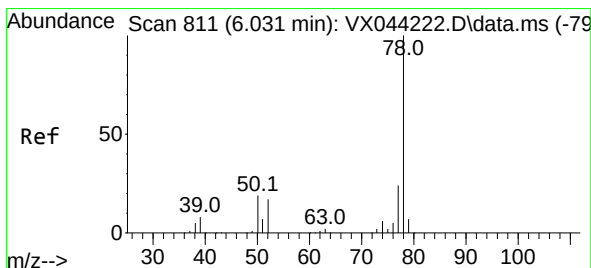
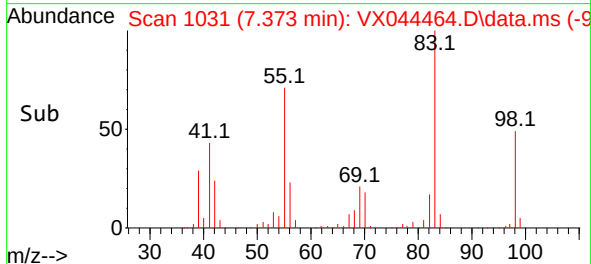
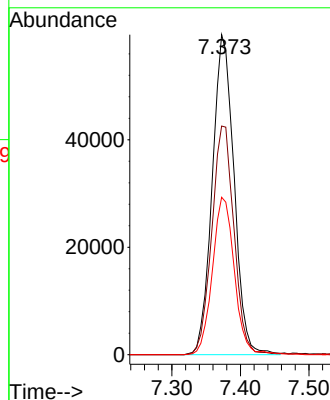
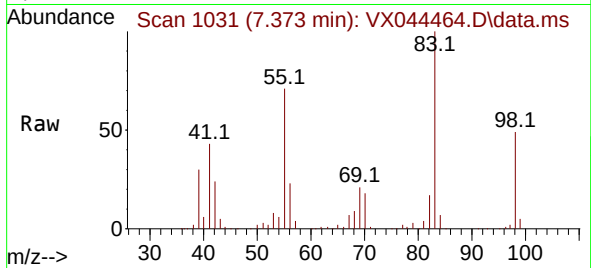




#39
Methylcyclohexane
Concen: 51.370 ug/l
RT: 7.373 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

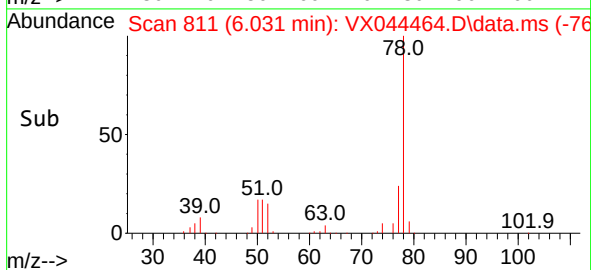
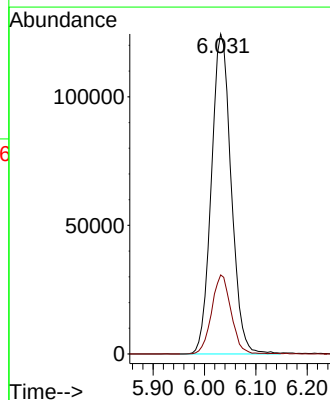
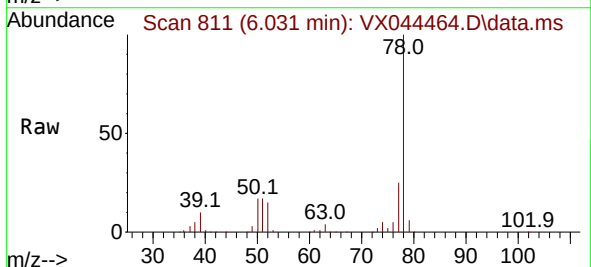
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

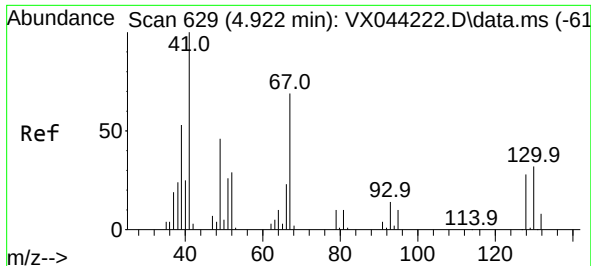
Tgt Ion: 83 Resp: 131438
Ion Ratio Lower Upper
83 100
55 71.4 60.7 91.1
98 49.2 38.9 58.3



#40
Benzene
Concen: 51.262 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 78 Resp: 333117
Ion Ratio Lower Upper
78 100
77 24.7 19.3 28.9

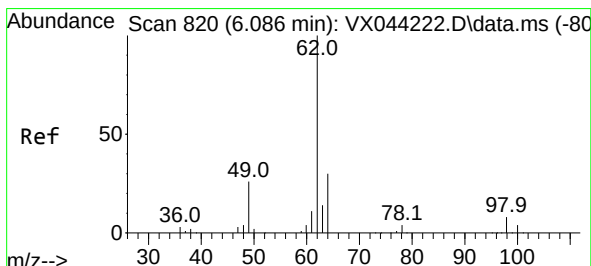
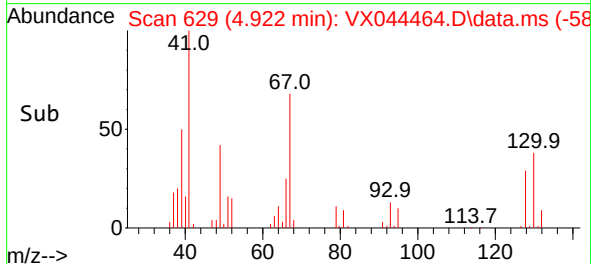
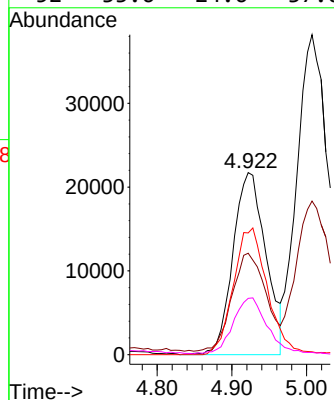
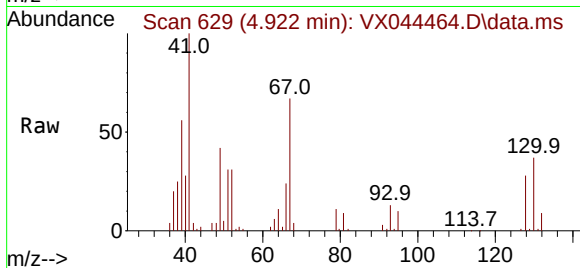




#41
Methacrylonitrile
Concen: 47.401 ug/l
RT: 4.922 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

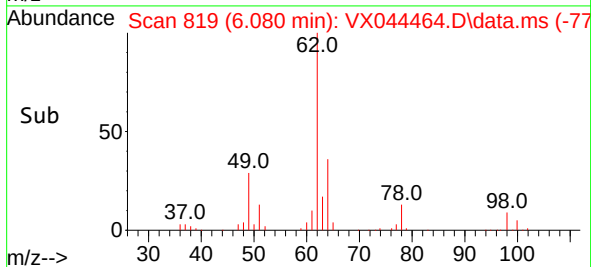
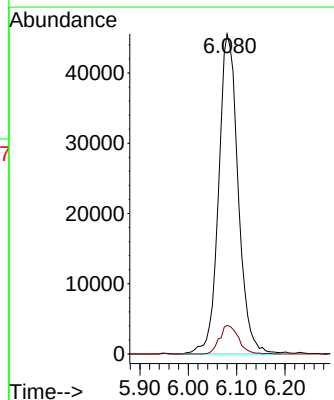
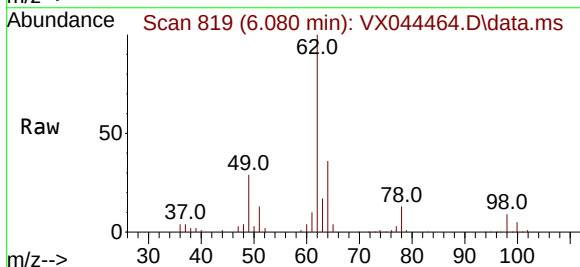
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

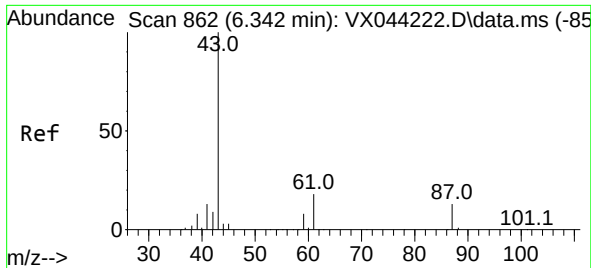
Tgt Ion:	41	Resp:	66592
Ion	Ratio	Lower	Upper
41	100		
39	55.8	44.2	66.4
67	72.7	57.2	85.8
52	33.6	24.6	37.0



#42
1,2-Dichloroethane
Concen: 47.680 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:	62	Resp:	127634
Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	15.8

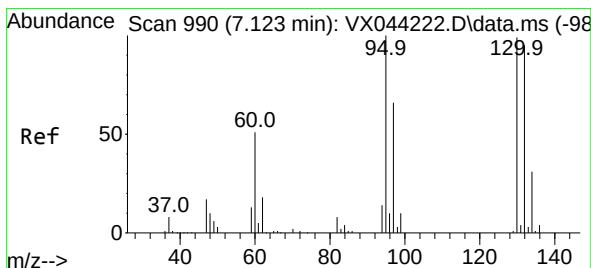
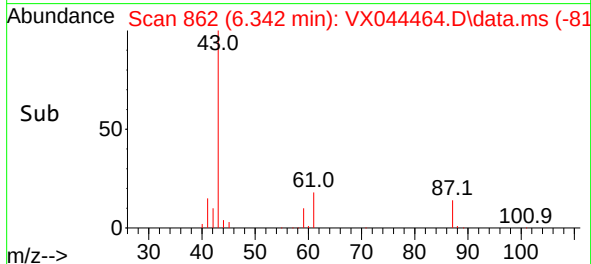
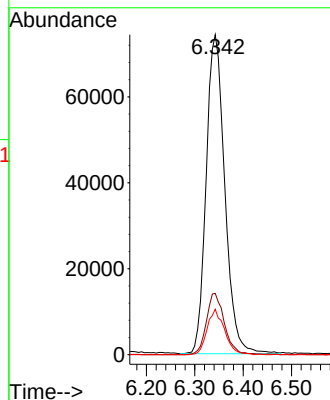
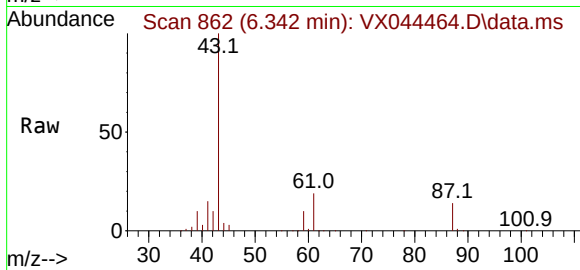




#43
Isopropyl Acetate
Concen: 48.047 ug/l
RT: 6.342 min Scan# 80
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

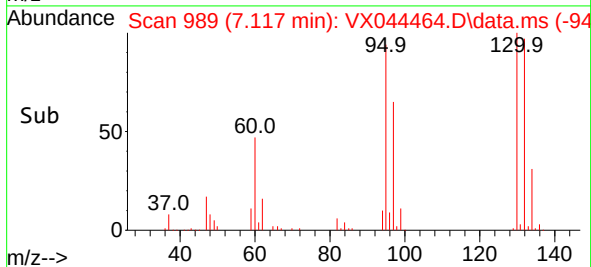
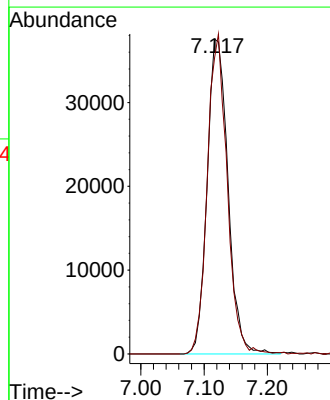
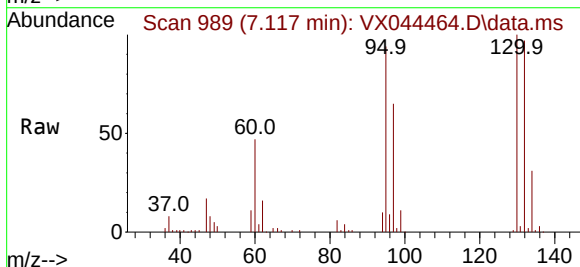
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

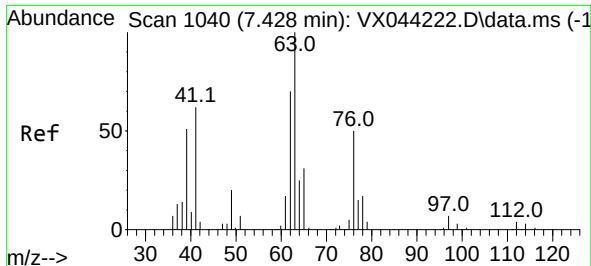
Tgt Ion: 43 Resp: 198680
Ion Ratio Lower Upper
43 100
61 18.6 14.2 21.2
87 13.3 10.2 15.2



#44
Trichloroethene
Concen: 53.083 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:130 Resp: 86021
Ion Ratio Lower Upper
130 100
95 94.1 0.0 201.4





#45

1,2-Dichloropropane

Concen: 49.622 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

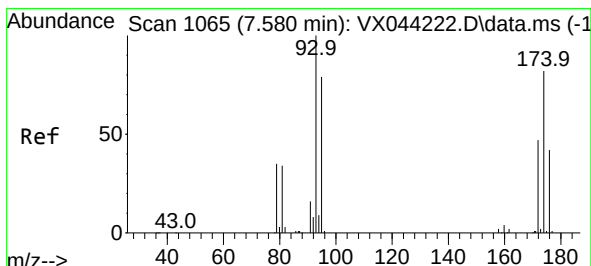
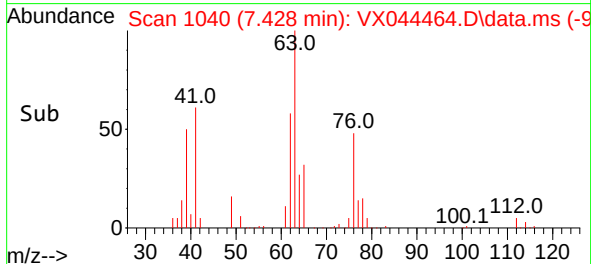
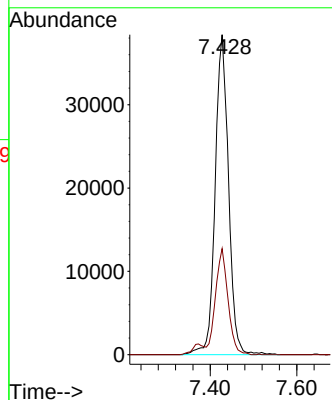
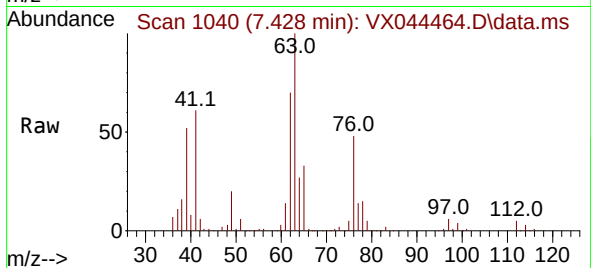
VSTDCCC050EC

Tgt Ion: 63 Resp: 82383

Ion Ratio Lower Upper

63 100

65 33.1 24.6 37.0



#46

Dibromomethane

Concen: 51.184 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. -0.006 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

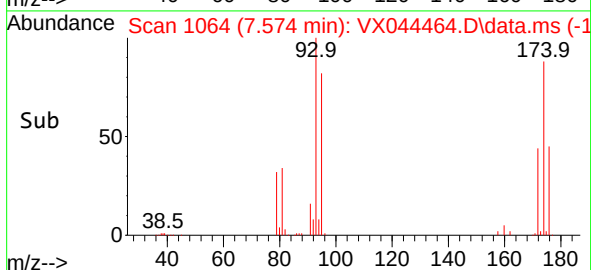
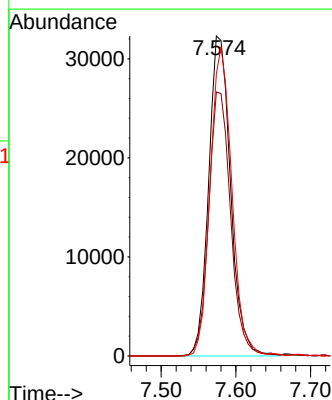
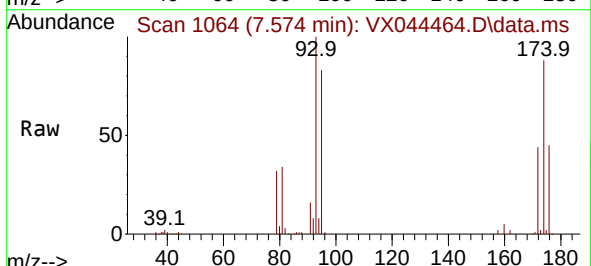
Tgt Ion: 93 Resp: 65924

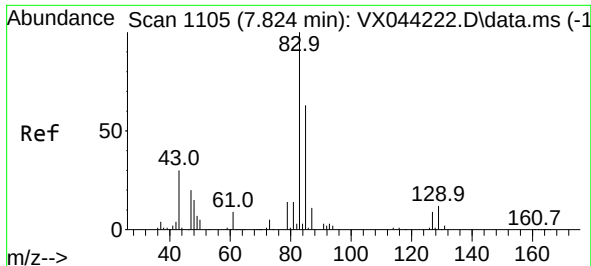
Ion Ratio Lower Upper

93 100

95 82.6 65.4 98.2

174 95.5 67.9 101.9

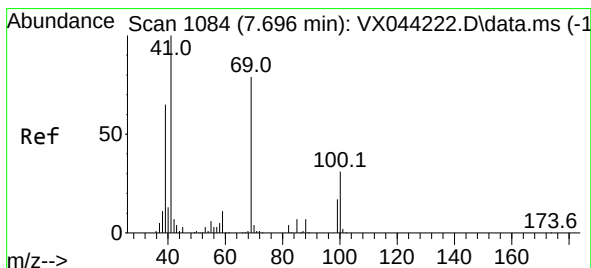
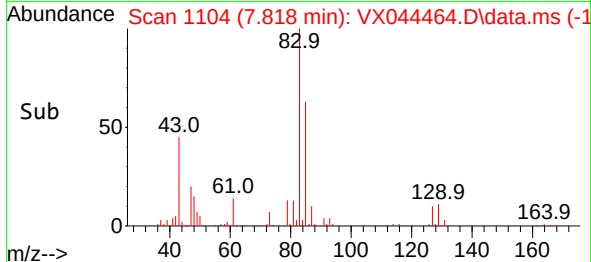
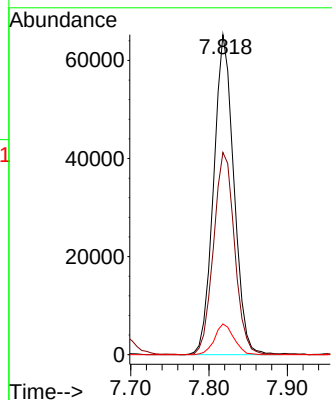
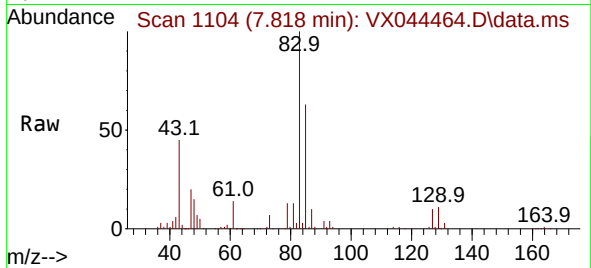




#47
Bromodichloromethane
Concen: 52.723 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

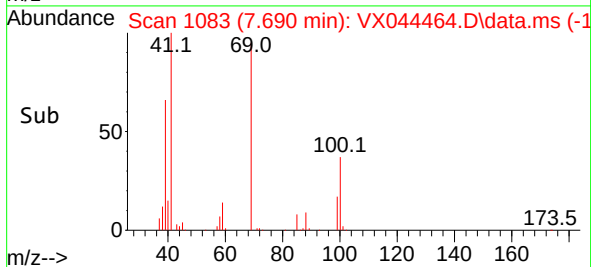
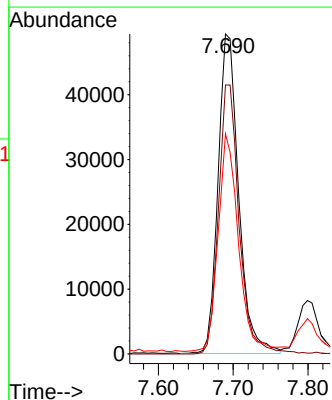
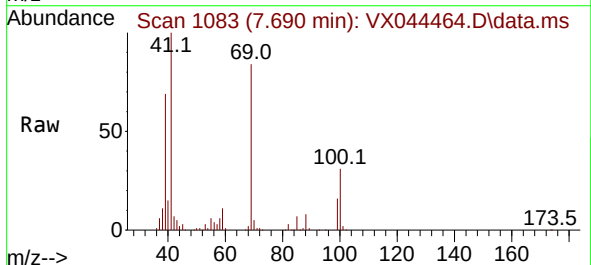
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

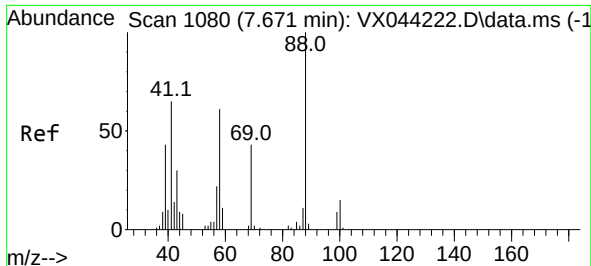
Tgt Ion: 83 Resp: 117278
Ion Ratio Lower Upper
83 100
85 63.2 50.6 75.8
127 9.6 7.3 10.9



#48
Methyl methacrylate
Concen: 47.115 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 41 Resp: 94575
Ion Ratio Lower Upper
41 100
69 84.6 62.4 93.6
39 66.9 53.3 79.9





#49

1,4-Dioxane

Concen: 1003.530 ug/l

RT: 7.659 min Scan# 1080

Delta R.T. -0.012 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

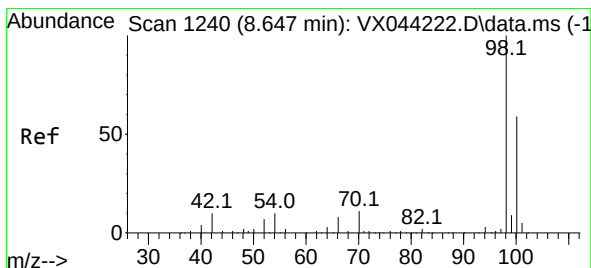
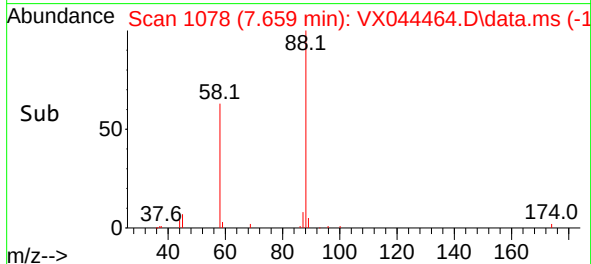
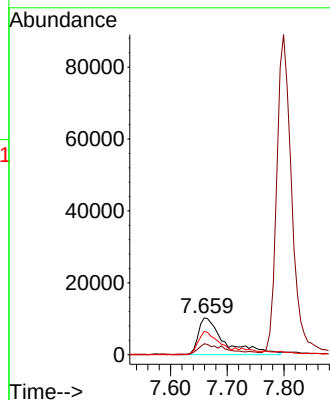
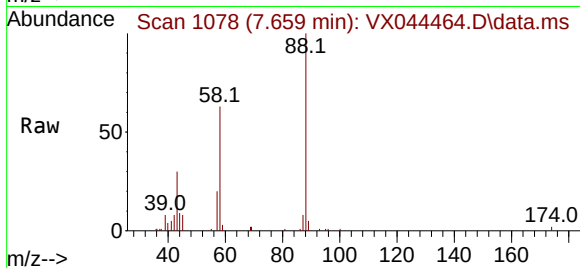
Tgt Ion: 88 Resp: 33398

Ion Ratio Lower Upper

88 100

43 27.8 27.1 40.7

58 48.6 41.0 61.4



#50

Toluene-d8

Concen: 51.923 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX044464.D

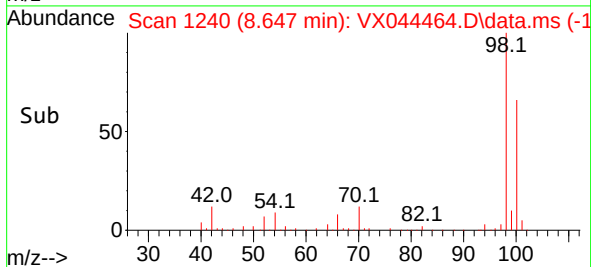
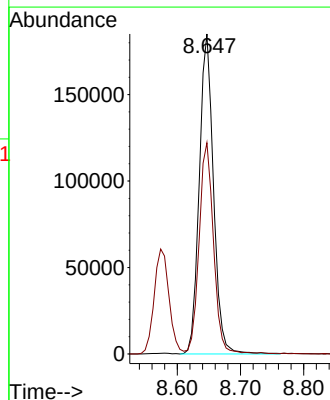
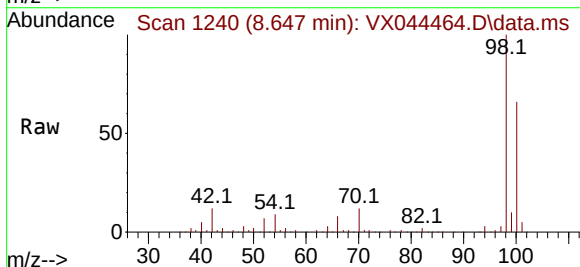
Acq: 20 Dec 2024 19:49

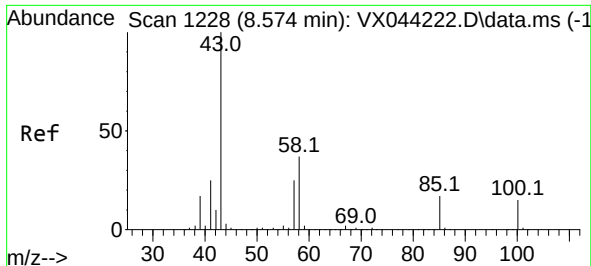
Tgt Ion: 98 Resp: 290046

Ion Ratio Lower Upper

98 100

100 66.0 51.5 77.3

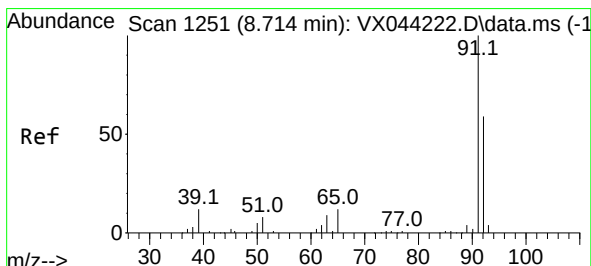
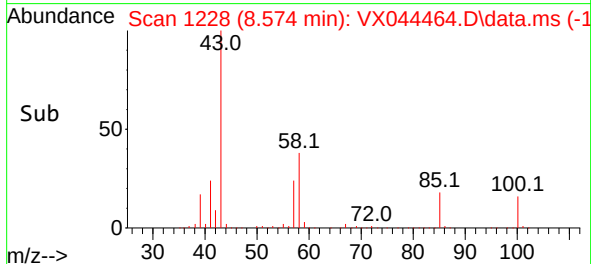
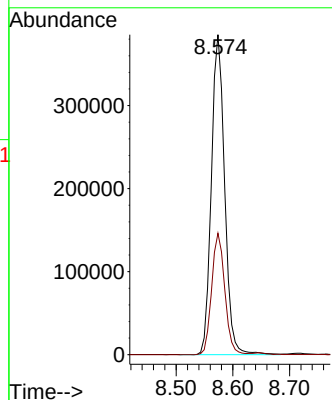
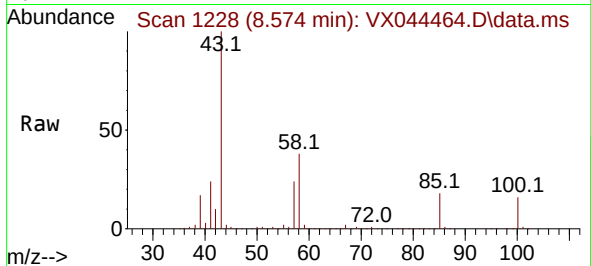




#51
4-Methyl-2-Pentanone
Concen: 235.413 ug/l
RT: 8.574 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

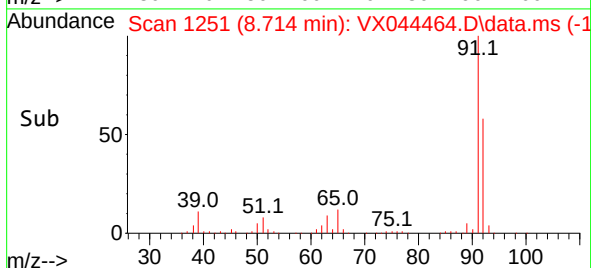
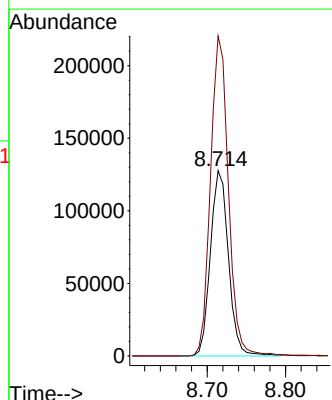
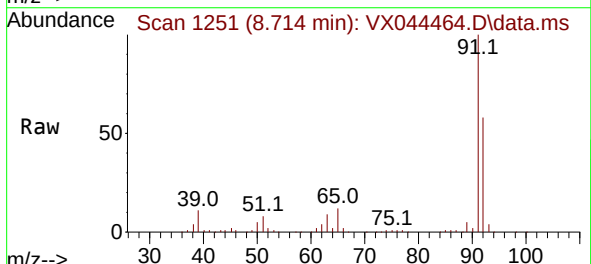
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

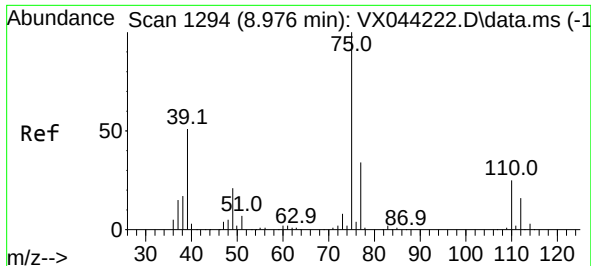
Tgt Ion: 43 Resp: 625919
Ion Ratio Lower Upper
43 100
58 37.5 29.4 44.0



#52
Toluene
Concen: 50.071 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 92 Resp: 204328
Ion Ratio Lower Upper
92 100
91 171.3 137.0 205.6





#53

t-1,3-Dichloropropene

Concen: 48.388 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

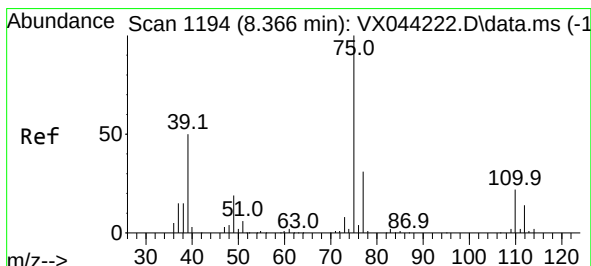
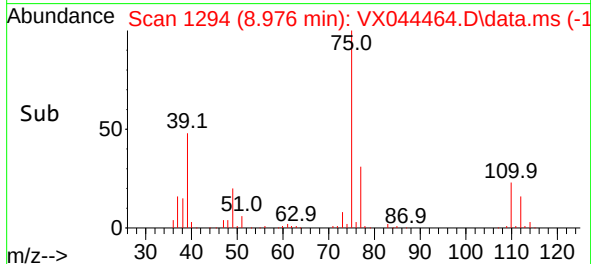
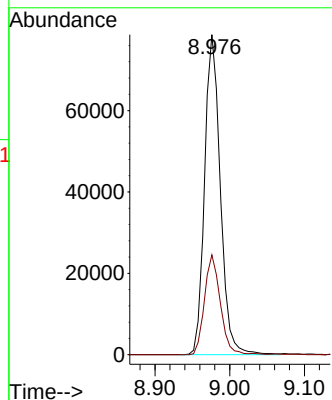
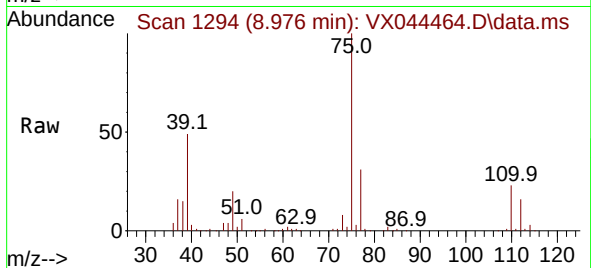
VSTDCCC050EC

Tgt Ion: 75 Resp: 115268

Ion Ratio Lower Upper

75 100

77 31.2 27.2 40.8



#54

cis-1,3-Dichloropropene

Concen: 52.437 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

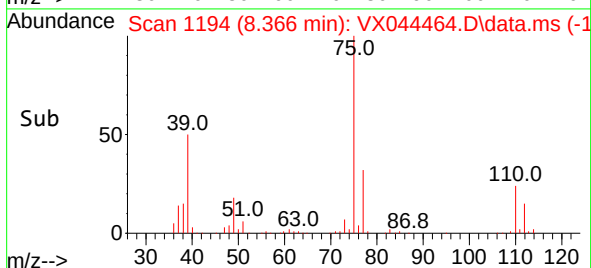
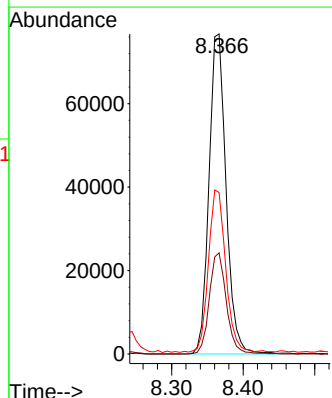
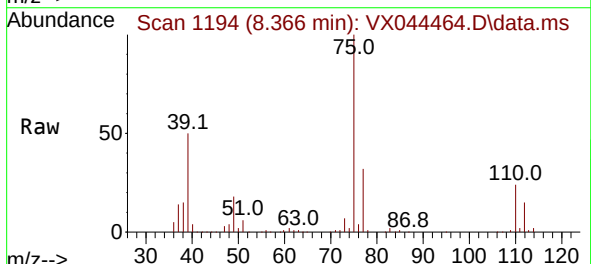
Tgt Ion: 75 Resp: 127004

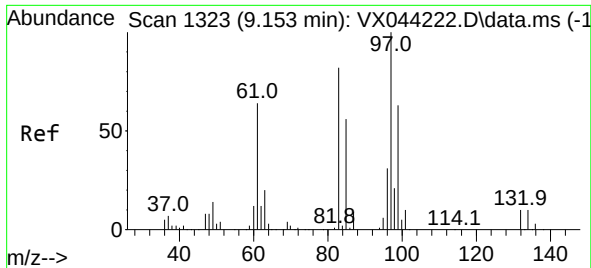
Ion Ratio Lower Upper

75 100

77 31.6 24.7 37.1

39 50.0 40.3 60.5



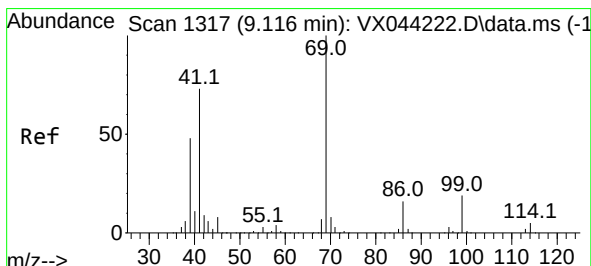
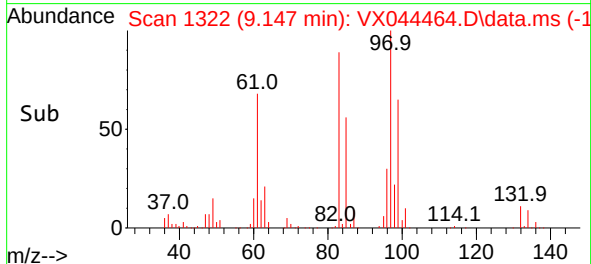
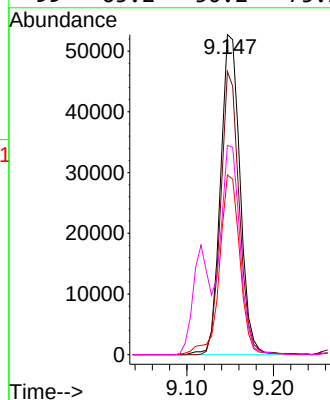
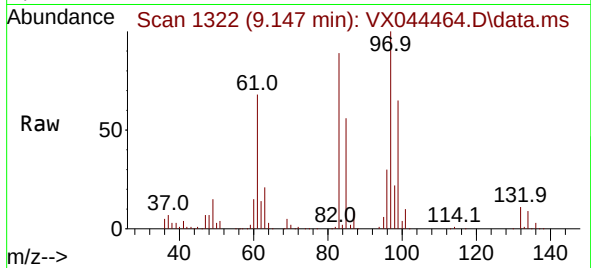


#55
1,1,2-Trichloroethane
Concen: 50.814 ug/l
RT: 9.147 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 82378

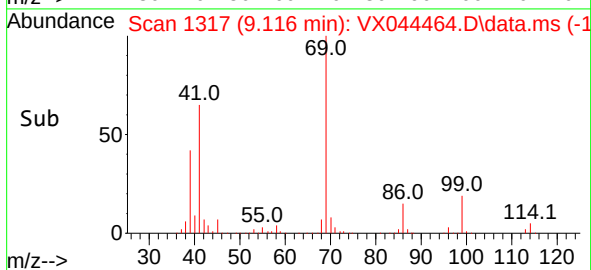
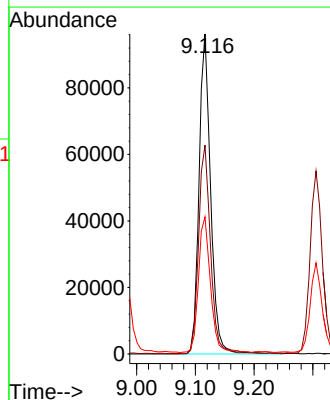
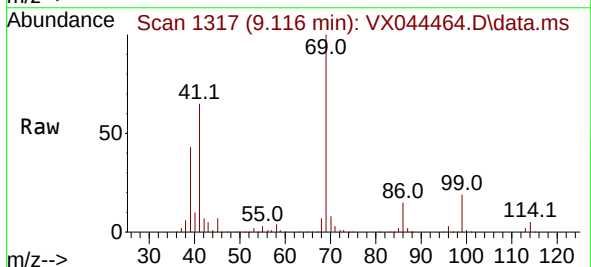
Ion	Ratio	Lower	Upper
97	100		
83	88.5	65.3	97.9
85	56.0	44.6	67.0
99	65.2	50.2	75.2

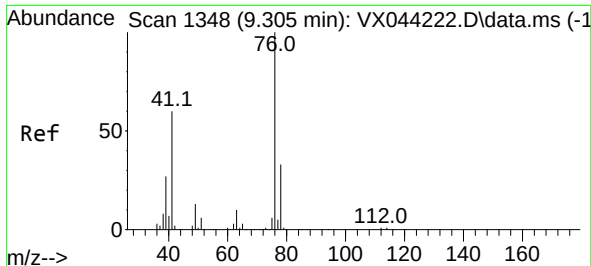


#56
Ethyl methacrylate
Concen: 51.516 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 69 Resp: 131845

Ion	Ratio	Lower	Upper
69	100		
41	66.5	56.6	85.0
39	43.7	37.4	56.0





#57

1,3-Dichloropropane

Concen: 49.799 ug/l

RT: 9.305 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

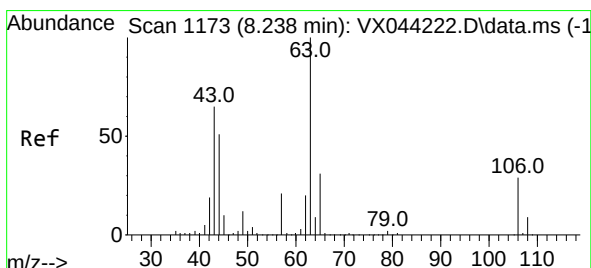
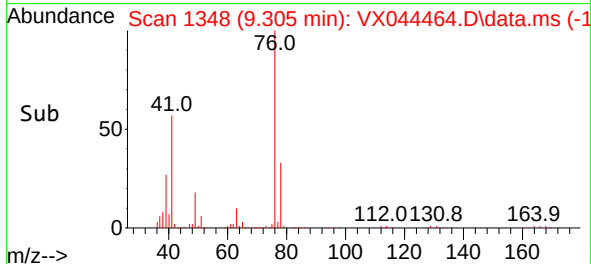
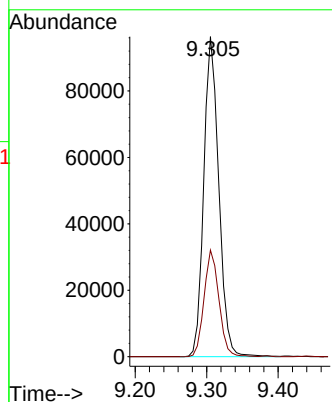
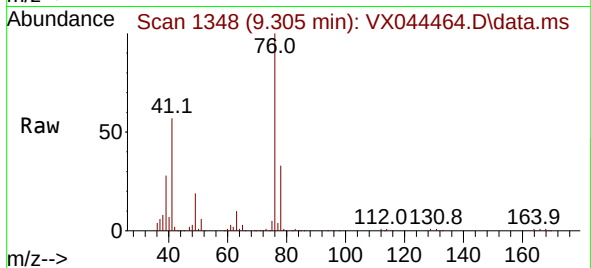
VSTDCCC050EC

Tgt Ion: 76 Resp: 140522

Ion Ratio Lower Upper

76 100

78 33.0 26.5 39.7



#58

2-Chloroethyl Vinyl ether

Concen: 243.652 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX044464.D

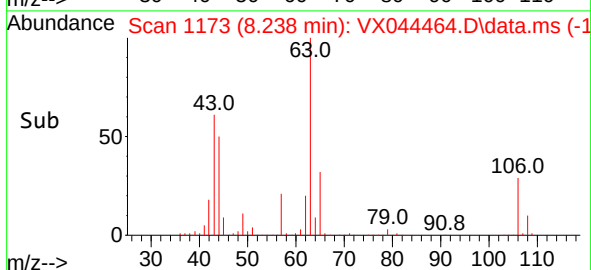
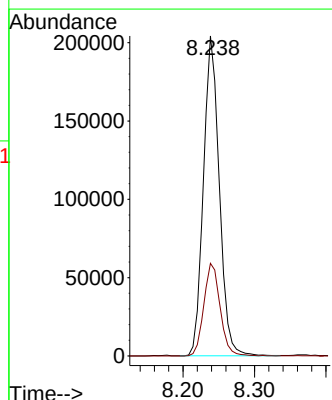
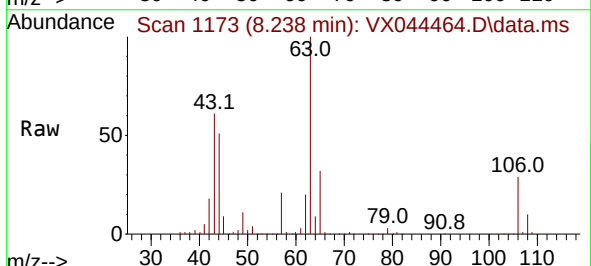
Acq: 20 Dec 2024 19:49

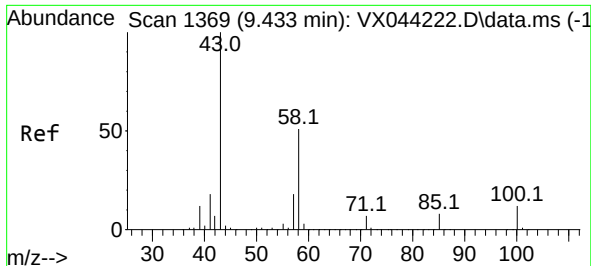
Tgt Ion: 63 Resp: 314516

Ion Ratio Lower Upper

63 100

106 29.8 22.8 34.2





#59

2-Hexanone

Concen: 236.376 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

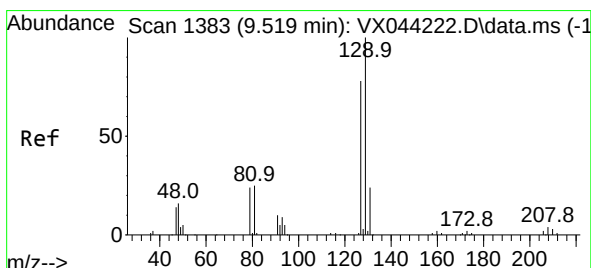
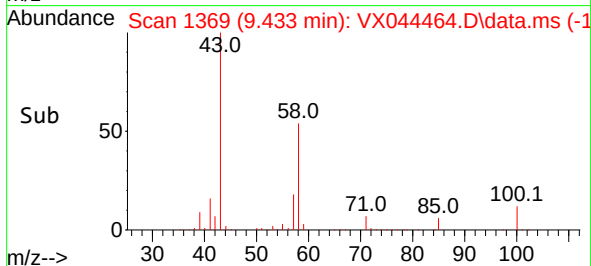
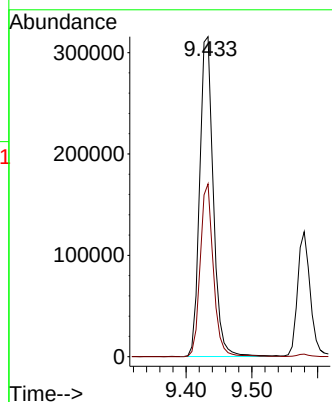
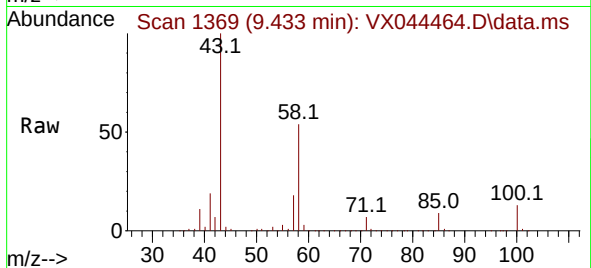
VSTDCCC050EC

Tgt Ion: 43 Resp: 454909

Ion Ratio Lower Upper

43 100

58 52.3 25.7 77.0



#60

Dibromochloromethane

Concen: 50.206 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX044464.D

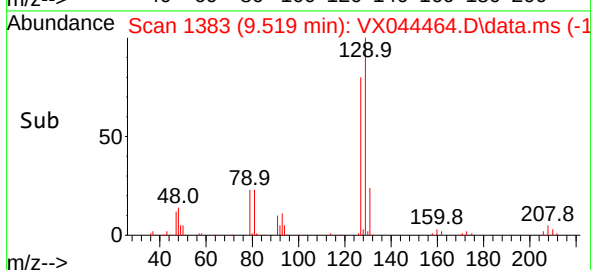
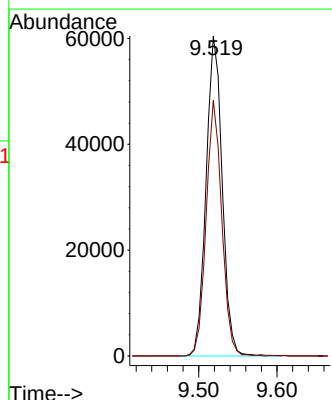
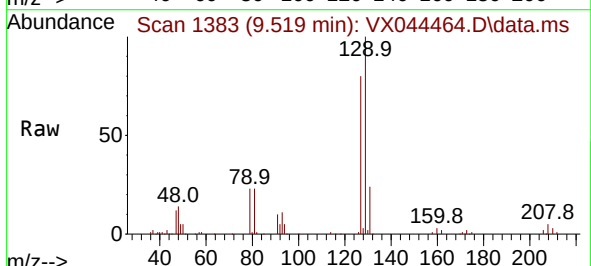
Acq: 20 Dec 2024 19:49

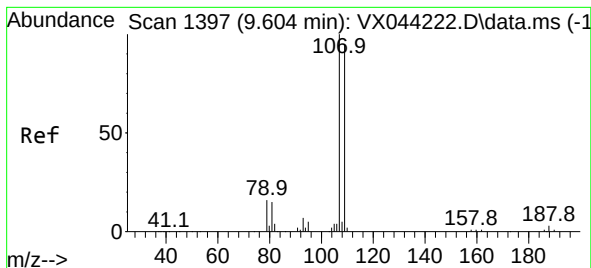
Tgt Ion: 129 Resp: 86219

Ion Ratio Lower Upper

129 100

127 77.4 38.5 115.3

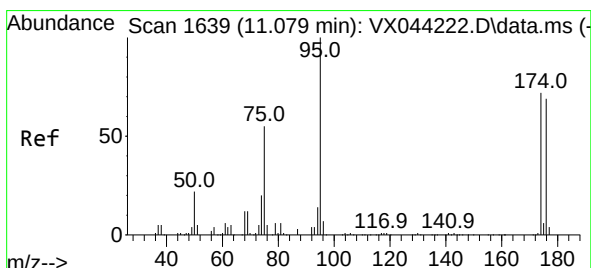
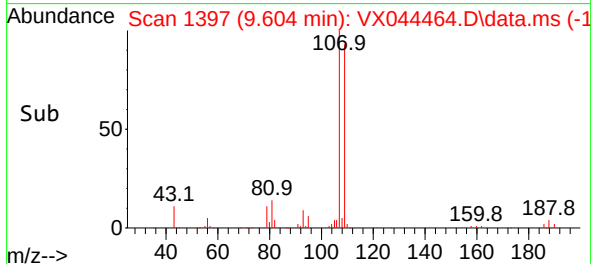
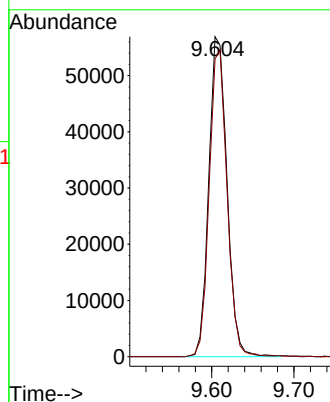
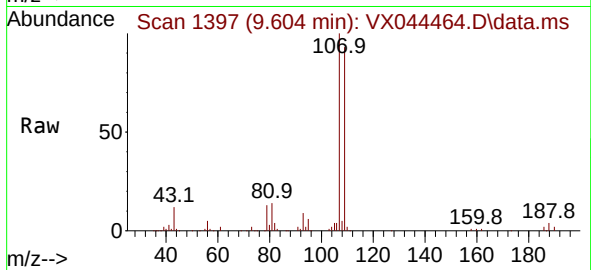




#61
1,2-Dibromoethane
Concen: 53.053 ug/l
RT: 9.604 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

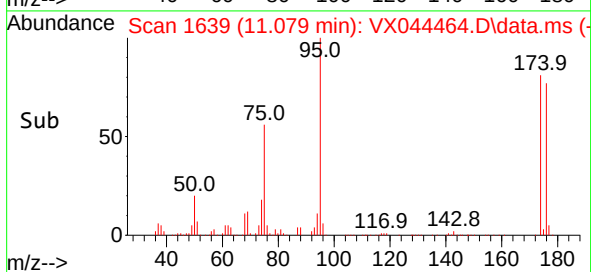
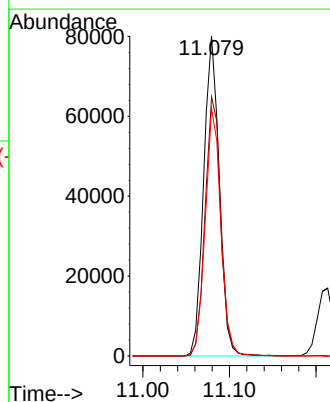
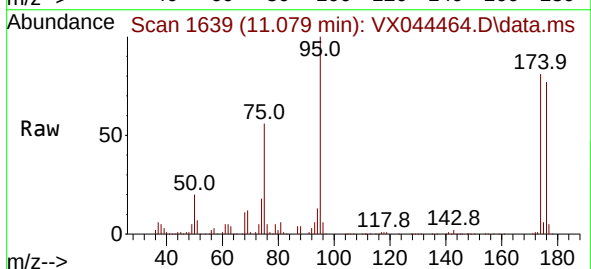
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

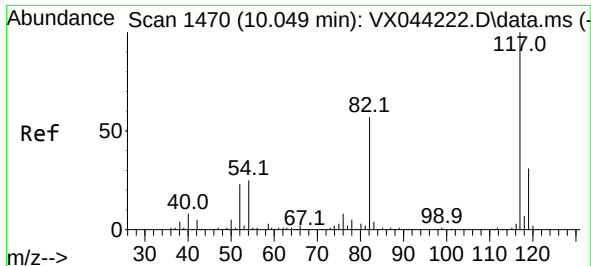
Tgt Ion:107 Resp: 87547
Ion Ratio Lower Upper
107 100
109 94.1 77.0 115.4



#62
4-Bromofluorobenzene
Concen: 51.161 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 95 Resp: 99862
Ion Ratio Lower Upper
95 100
174 83.0 0.0 145.8
176 77.6 0.0 137.8

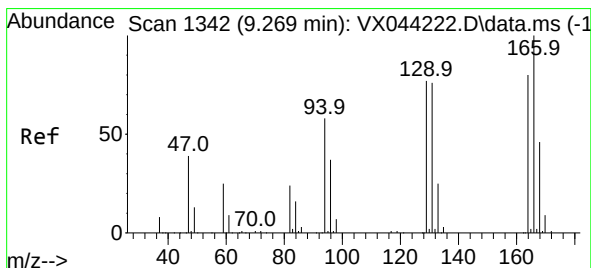
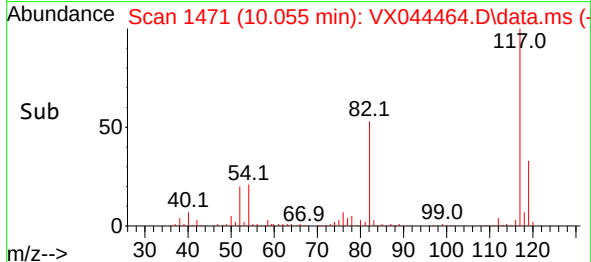
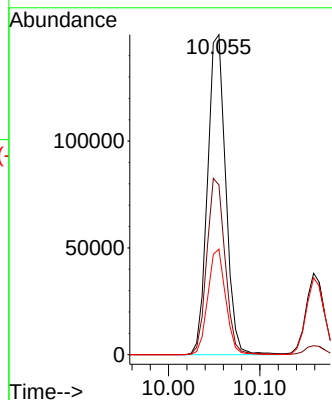
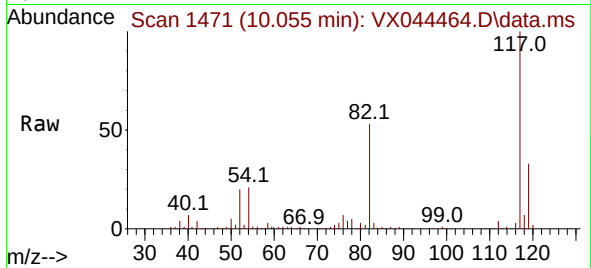




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

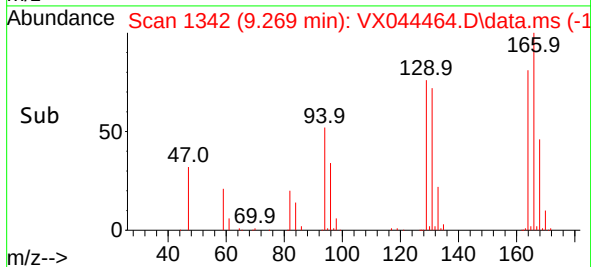
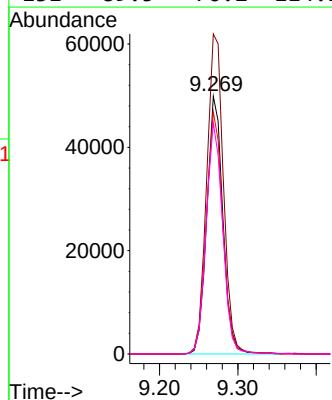
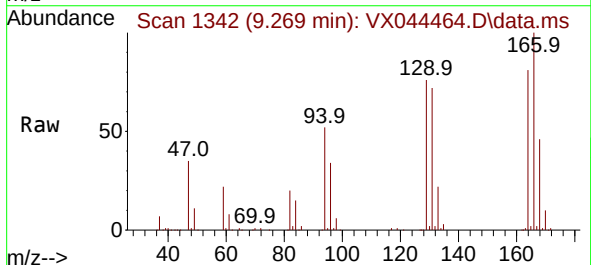
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

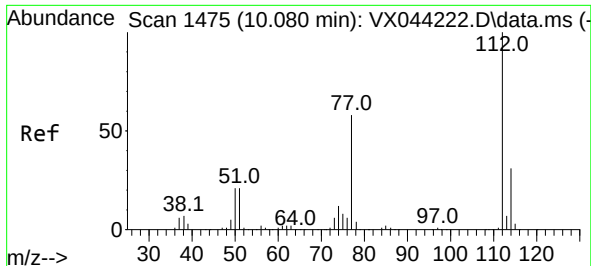
Tgt Ion:117 Resp: 206477
Ion Ratio Lower Upper
117 100
82 53.0 45.8 68.8
119 33.0 25.0 37.4



#64
Tetrachloroethene
Concen: 51.727 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:164 Resp: 70888
Ion Ratio Lower Upper
164 100
166 124.1 100.4 150.6
129 93.8 77.2 115.8
131 89.5 76.2 114.2

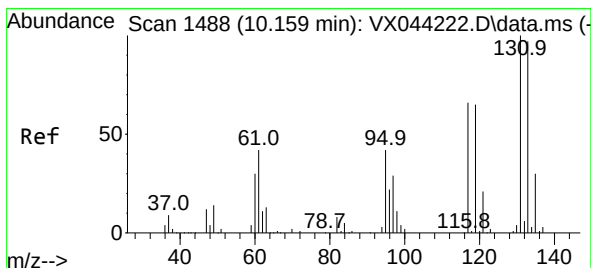
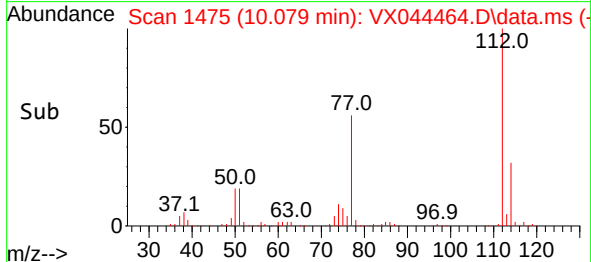
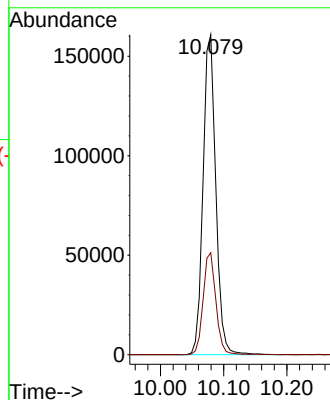
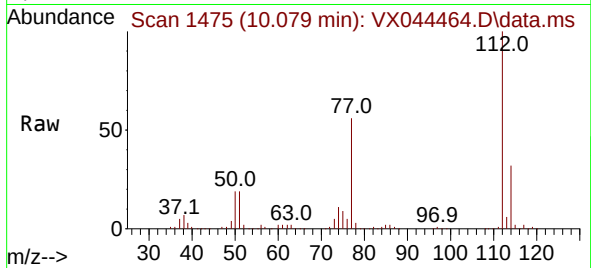




#65
Chlorobenzene
Concen: 51.056 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

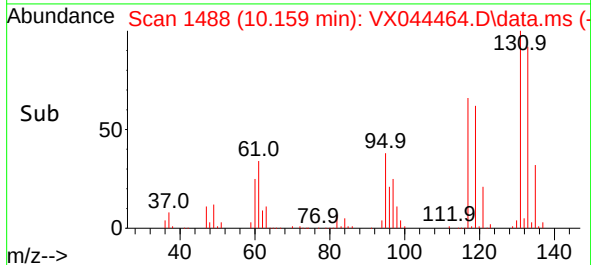
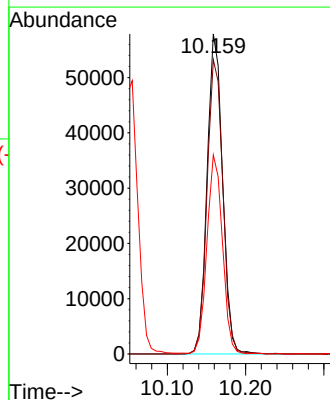
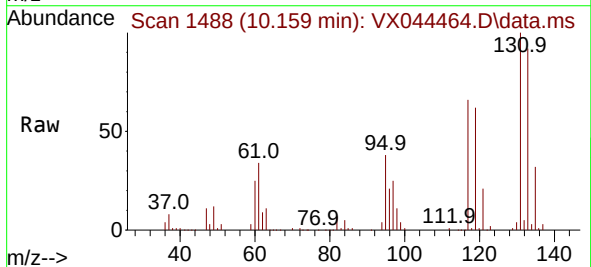
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

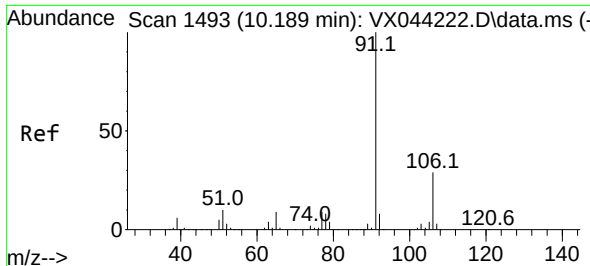
Tgt Ion:112 Resp: 225888
Ion Ratio Lower Upper
112 100
114 31.8 25.0 37.6



#66
1,1,1,2-Tetrachloroethane
Concen: 55.601 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:131 Resp: 79060
Ion Ratio Lower Upper
131 100
133 94.3 47.3 141.8
119 62.0 31.6 95.0





#67

Ethyl Benzene

Concen: 50.462 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

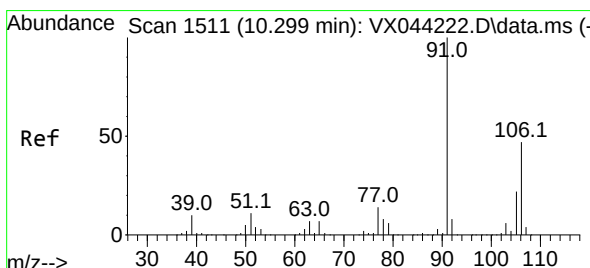
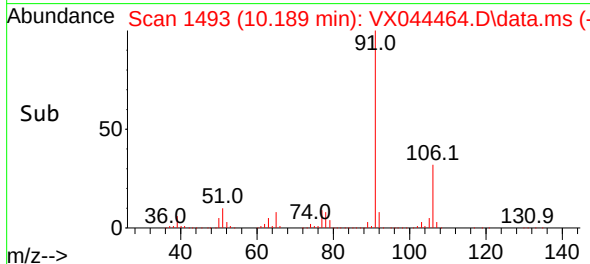
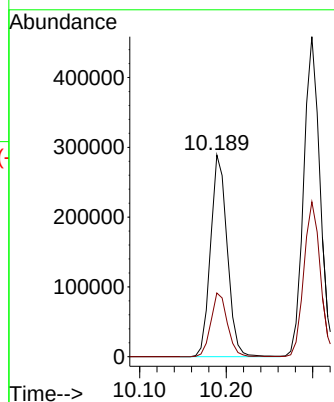
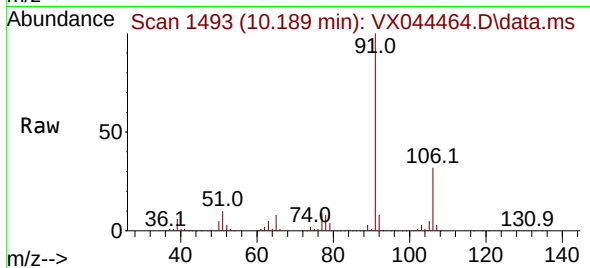
VSTDCCC050EC

Tgt Ion: 91 Resp: 385756

Ion Ratio Lower Upper

91 100

106 31.6 23.5 35.3



#68

m/p-Xylenes

Concen: 105.028 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX044464.D

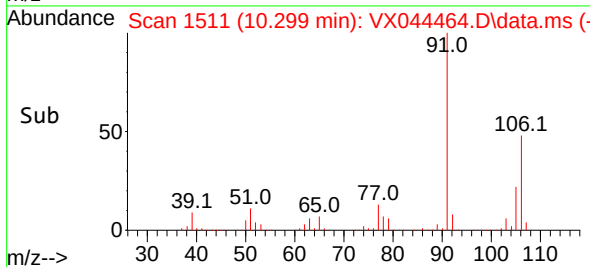
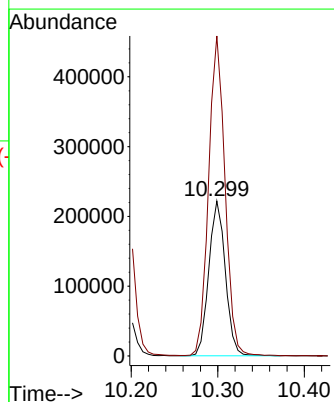
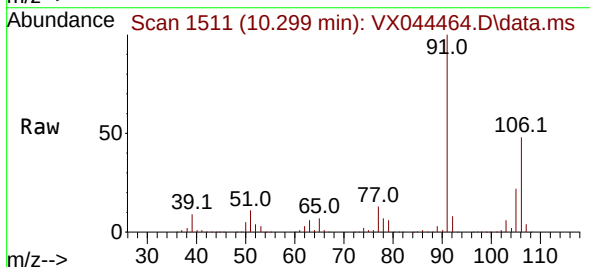
Acq: 20 Dec 2024 19:49

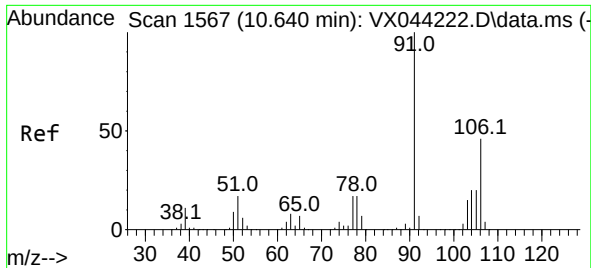
Tgt Ion: 106 Resp: 294612

Ion Ratio Lower Upper

106 100

91 205.2 170.2 255.2

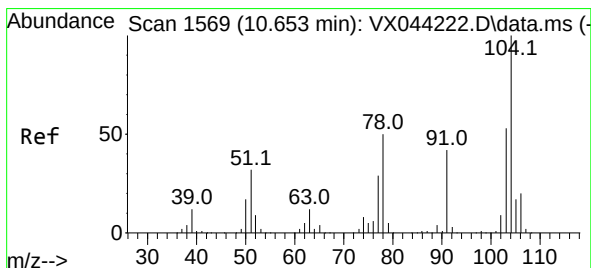
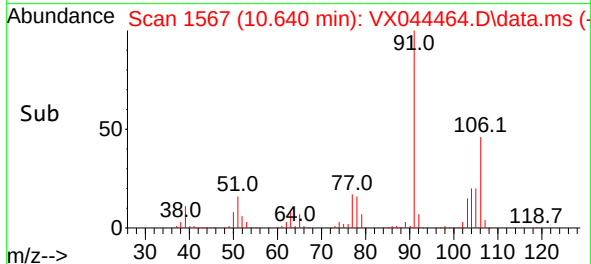
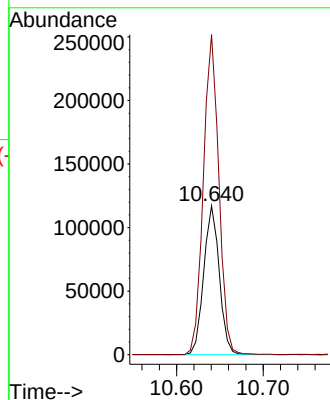
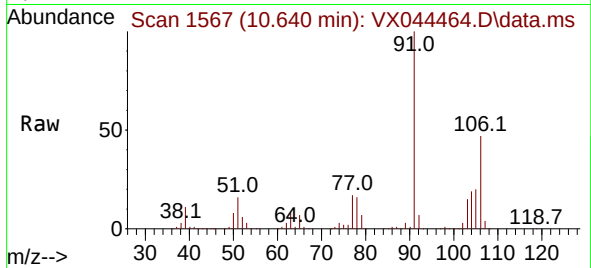




#69
o-Xylene
Concen: 51.494 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

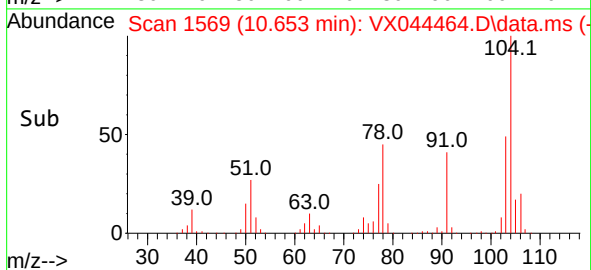
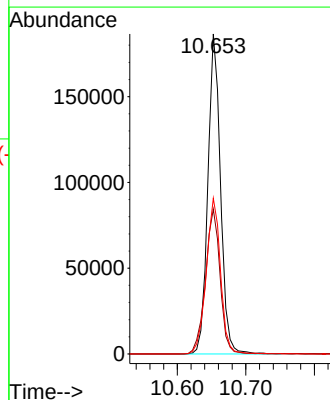
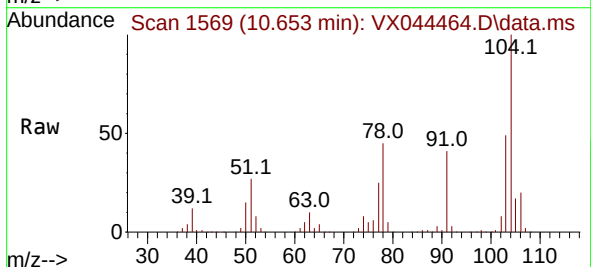
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

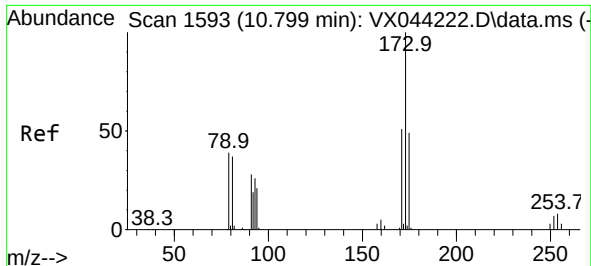
Tgt Ion:106 Resp: 146149
Ion Ratio Lower Upper
106 100
91 213.9 112.3 337.0



#70
Styrene
Concen: 52.761 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:104 Resp: 240058
Ion Ratio Lower Upper
104 100
78 52.3 44.6 67.0
103 55.0 45.4 68.0

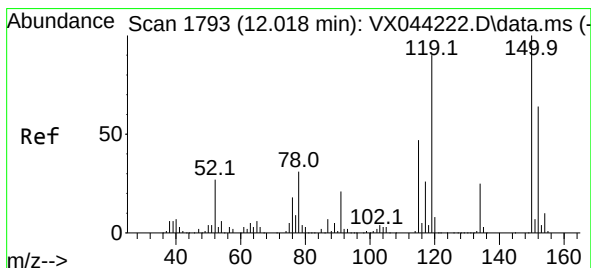
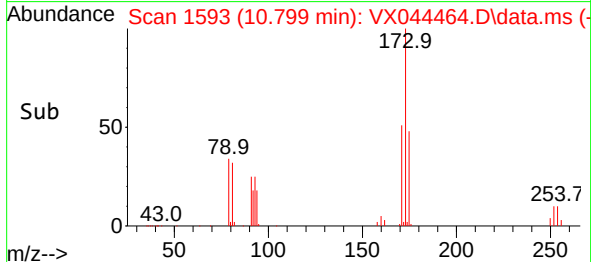
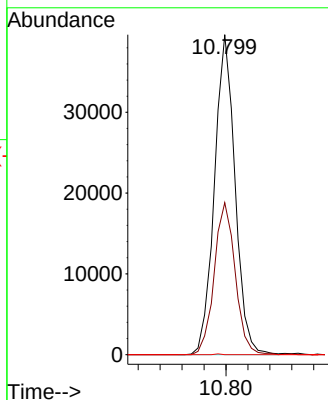
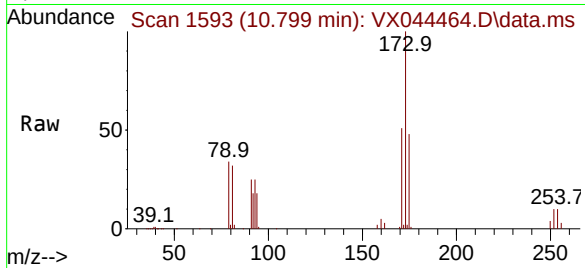




#71
Bromoform
Concen: 51.900 ug/l
RT: 10.799 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

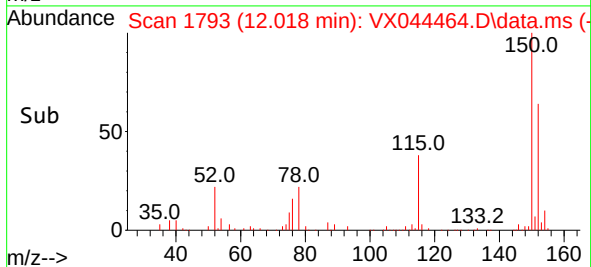
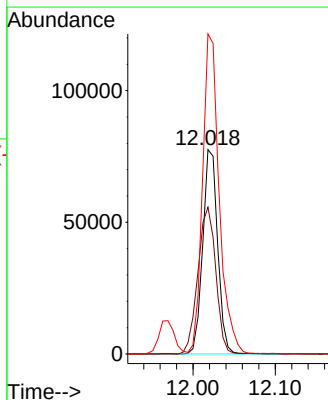
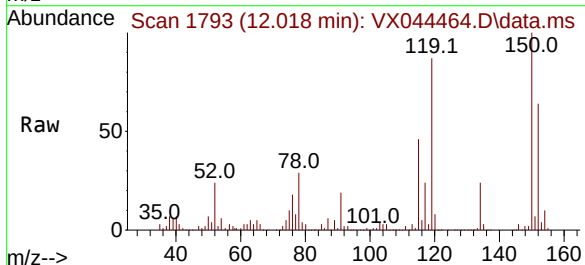
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

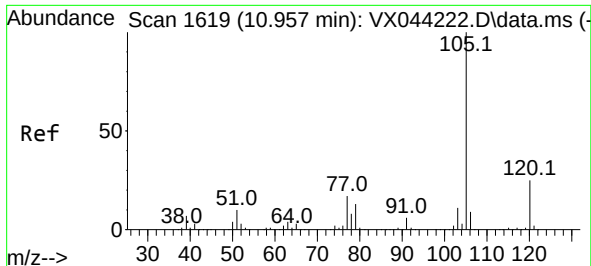
Tgt Ion:173 Resp: 51823
Ion Ratio Lower Upper
173 100
175 48.4 23.8 71.4
254 0.1 0.0 0.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:152 Resp: 97831
Ion Ratio Lower Upper
152 100
115 86.4 44.5 133.3
150 174.4 0.0 353.8

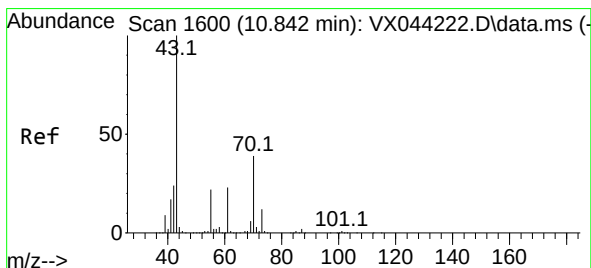
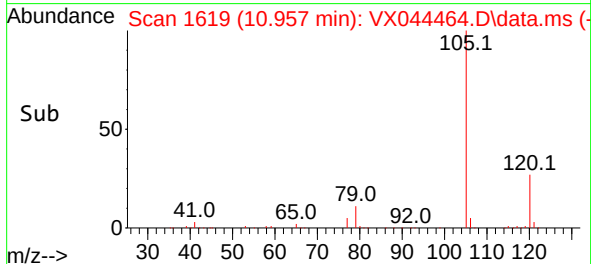
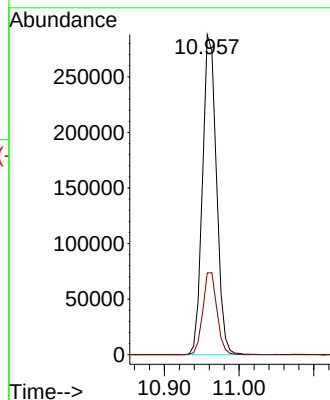
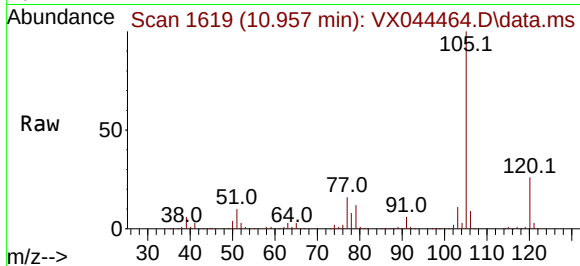




#73
Isopropylbenzene
Concen: 50.011 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

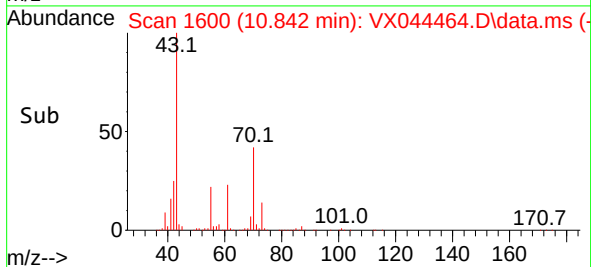
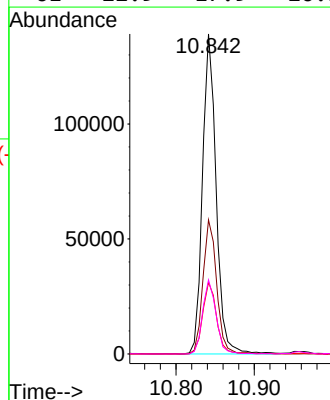
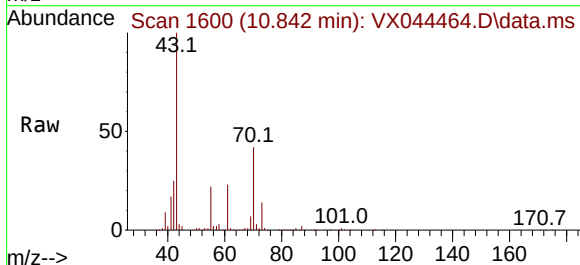
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

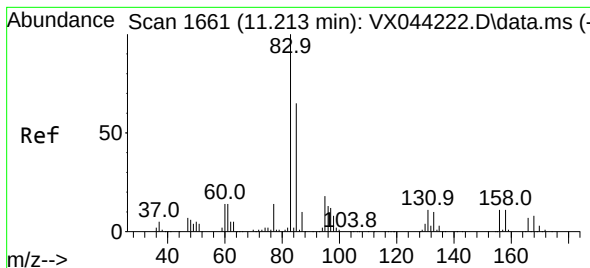
Tgt Ion:105 Resp: 374548
Ion Ratio Lower Upper
105 100
120 26.0 13.1 39.3



#74
N-ethyl acetate
Concen: 48.576 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 168135
Ion Ratio Lower Upper
43 100
70 42.4 31.9 47.9
55 22.9 17.9 26.9
61 22.9 17.9 26.9





#75

1,1,2,2-Tetrachloroethane

Concen: 48.065 ug/l

RT: 11.207 min Scan# 1

Delta R.T. -0.006 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

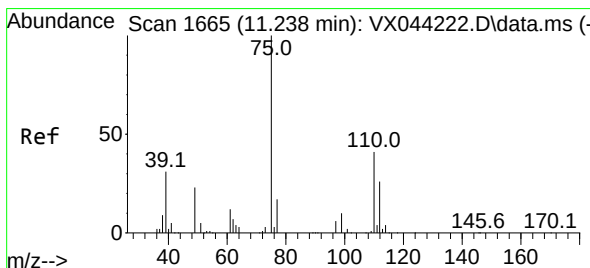
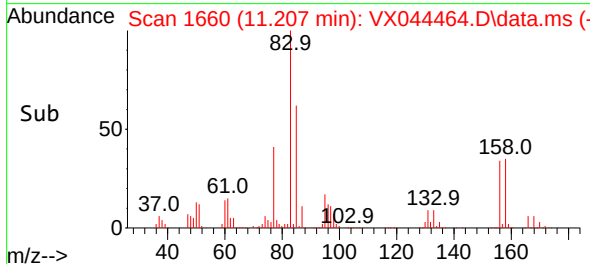
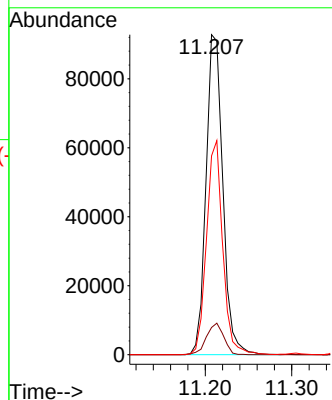
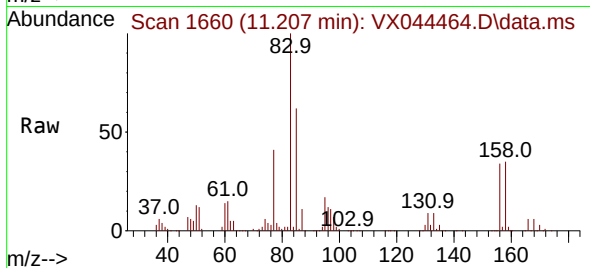
Tgt Ion: 83 Resp: 125030

Ion Ratio Lower Upper

83 100

131 10.1 5.1 15.4

85 64.6 32.5 97.4



#76

1,2,3-Trichloropropane

Concen: 60.417 ug/l

RT: 11.238 min Scan# 1665

Delta R.T. -0.000 min

Lab File: VX044464.D

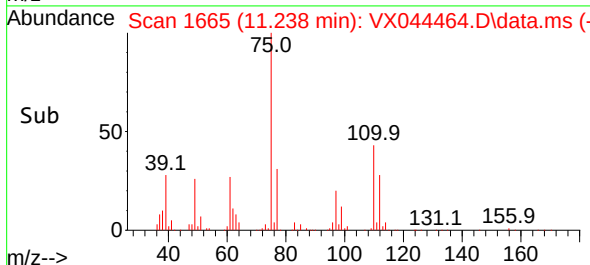
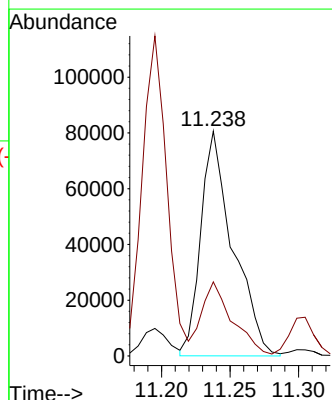
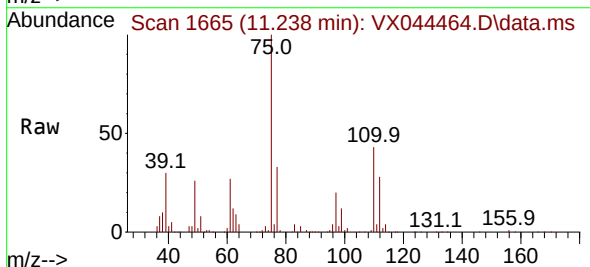
Acq: 20 Dec 2024 19:49

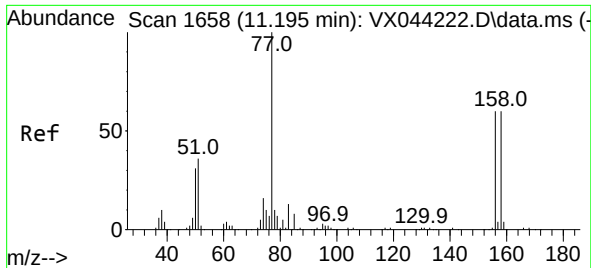
Tgt Ion: 75 Resp: 131971

Ion Ratio Lower Upper

75 100

77 31.7 20.9 62.7

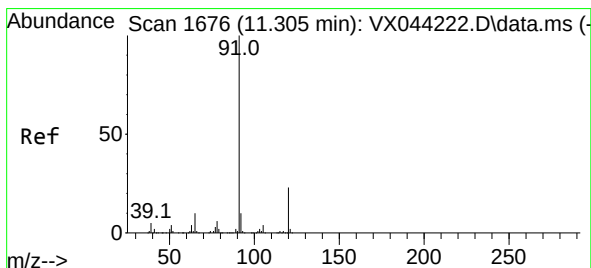
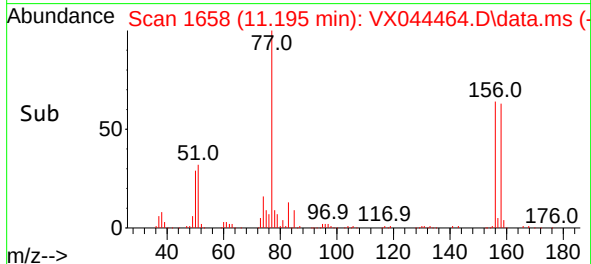
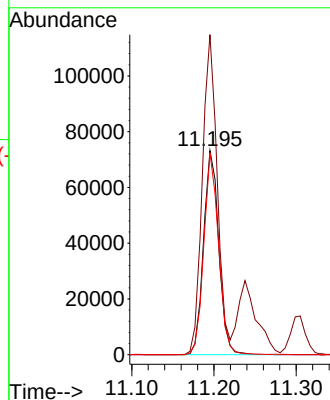
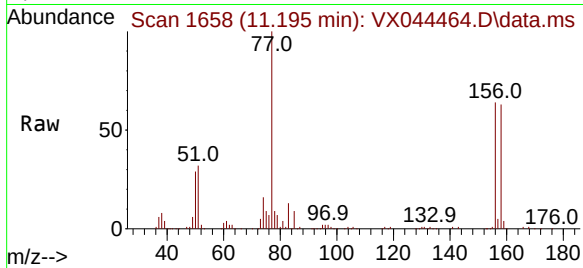




#77
Bromobenzene
Concen: 51.903 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

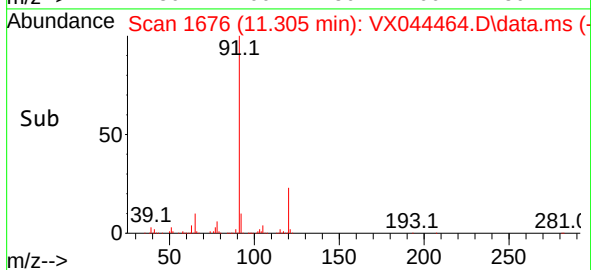
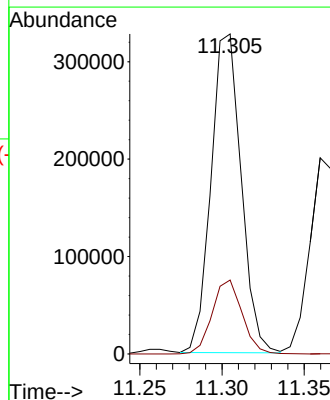
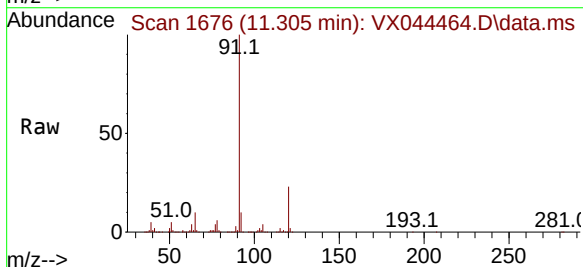
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

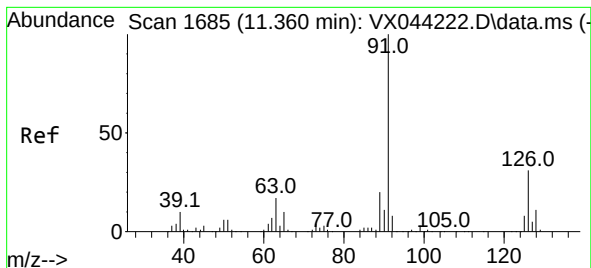
Tgt Ion:156 Resp: 94262
Ion Ratio Lower Upper
156 100
77 153.3 82.6 247.8
158 95.8 48.8 146.4



#78
n-propylbenzene
Concen: 50.432 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 91 Resp: 417465
Ion Ratio Lower Upper
91 100
120 23.1 11.0 33.0

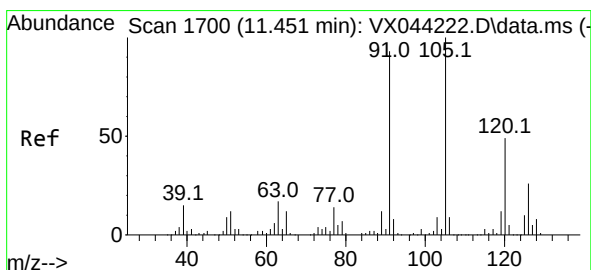
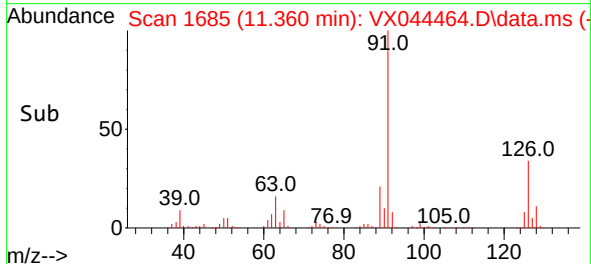
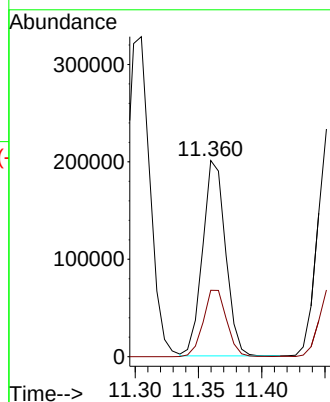
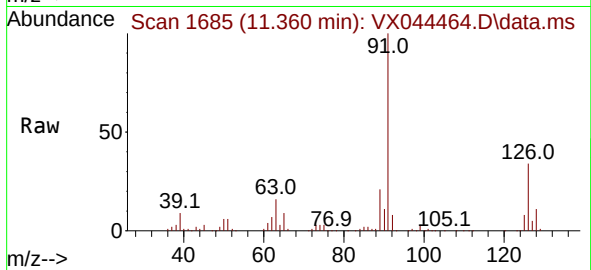




#79
2-Chlorotoluene
Concen: 47.285 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

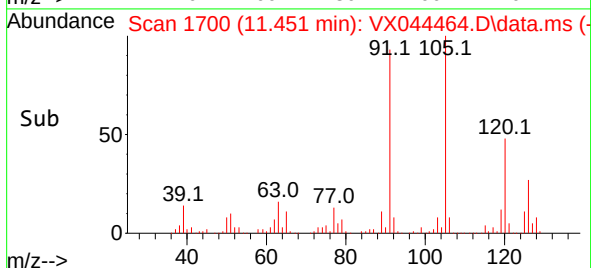
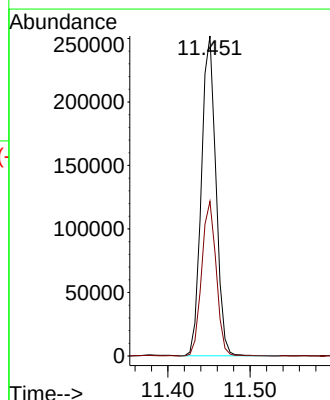
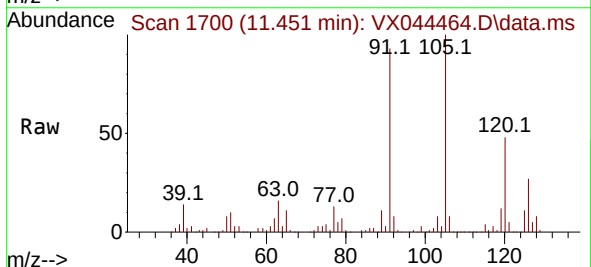
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

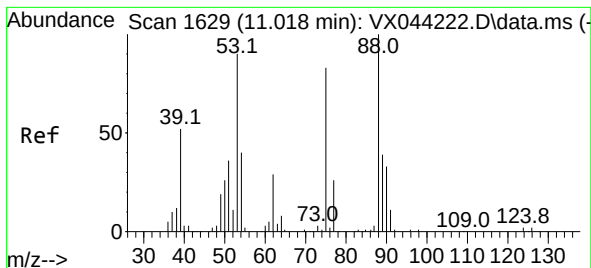
Tgt Ion: 91 Resp: 253139
Ion Ratio Lower Upper
91 100
126 34.9 16.4 49.1



#80
1,3,5-Trimethylbenzene
Concen: 49.787 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 105 Resp: 309218
Ion Ratio Lower Upper
105 100
120 48.4 23.8 71.4

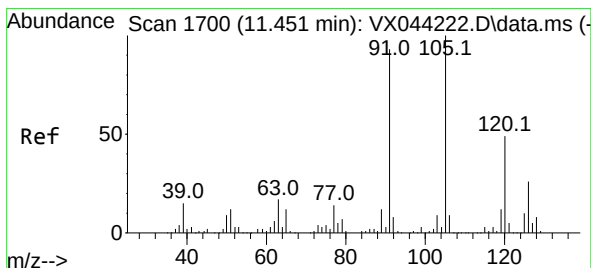
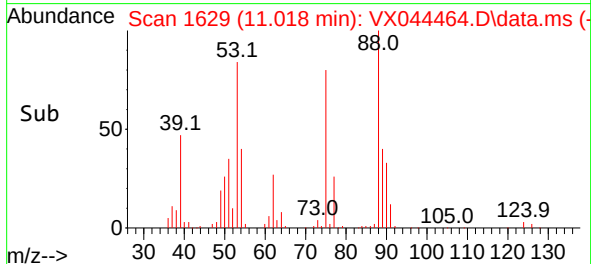
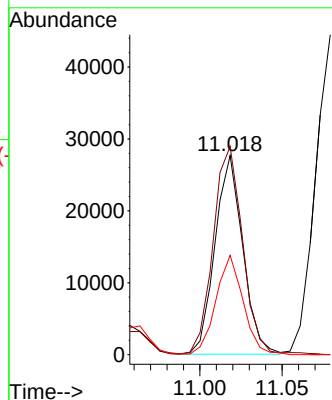
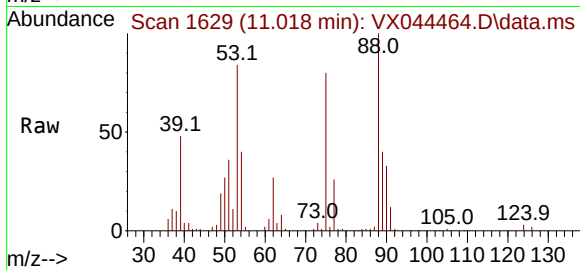




#81
trans-1,4-Dichloro-2-butene
Concen: 43.348 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

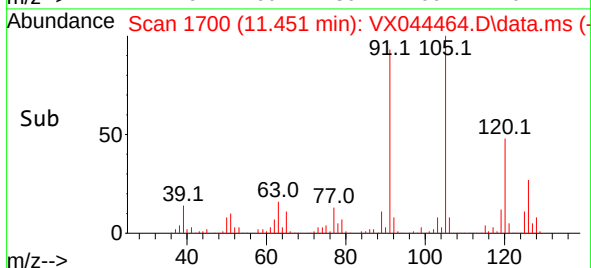
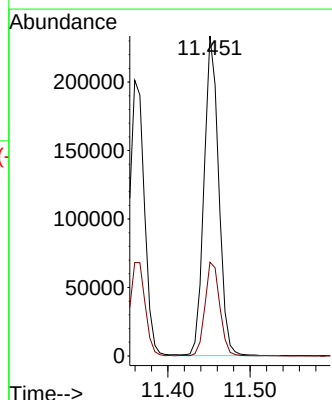
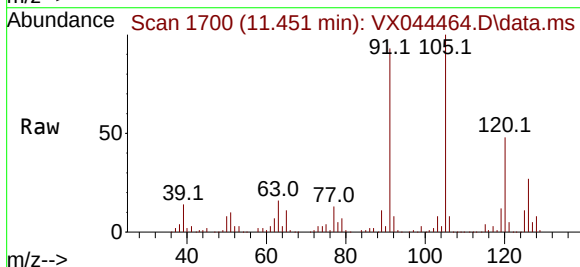
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

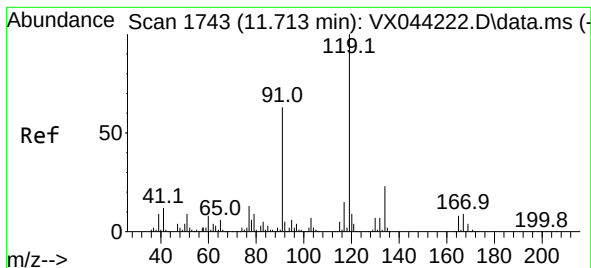
Tgt Ion: 75 Resp: 32407
Ion Ratio Lower Upper
75 100
53 111.6 93.6 140.4
89 49.1 37.3 55.9



#82
4-Chlorotoluene
Concen: 48.802 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 91 Resp: 289306
Ion Ratio Lower Upper
91 100
126 29.8 14.5 43.5





#83

tert-Butylbenzene

Concen: 50.950 ug/l

RT: 11.713 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

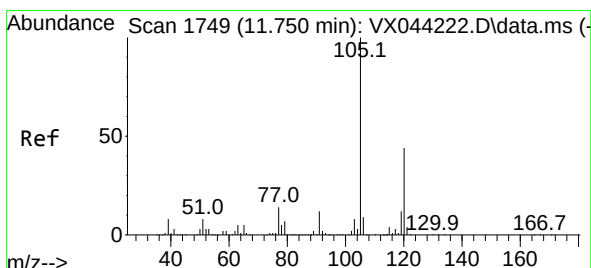
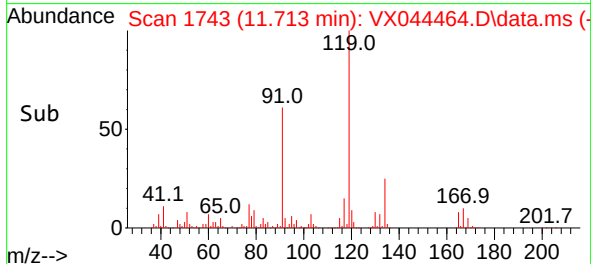
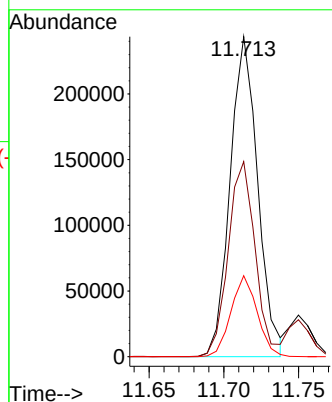
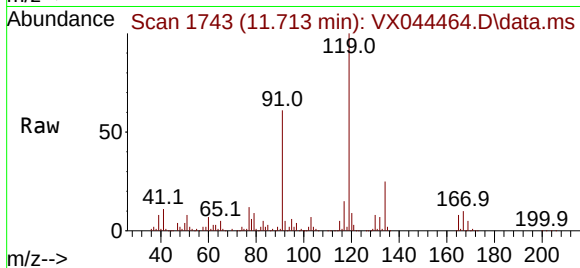
Tgt Ion:119 Resp: 312731

Ion Ratio Lower Upper

119 100

91 59.8 30.9 92.5

134 24.1 11.5 34.4



#84

1,2,4-Trimethylbenzene

Concen: 50.564 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX044464.D

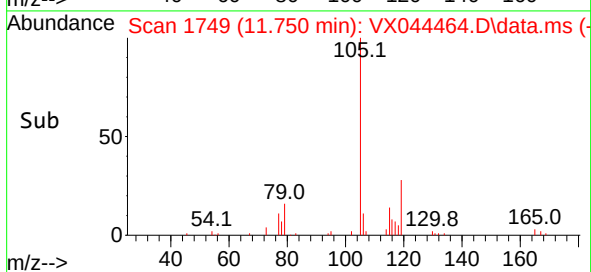
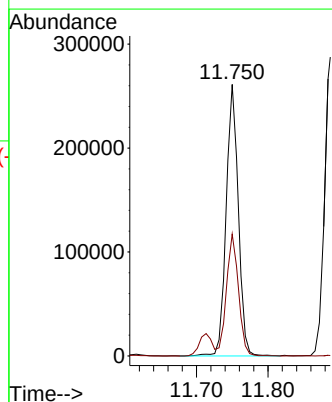
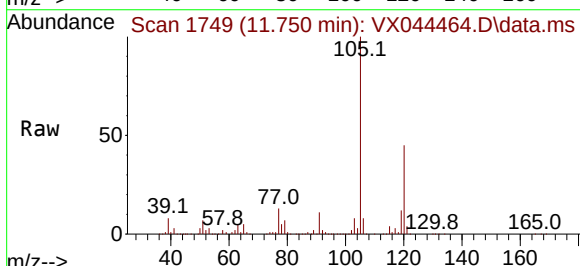
Acq: 20 Dec 2024 19:49

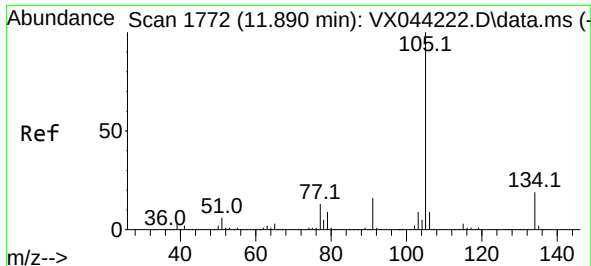
Tgt Ion:105 Resp: 308415

Ion Ratio Lower Upper

105 100

120 44.6 21.7 65.1

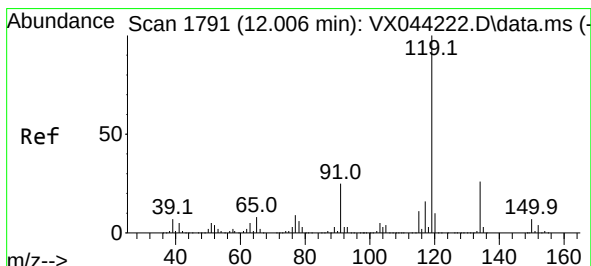
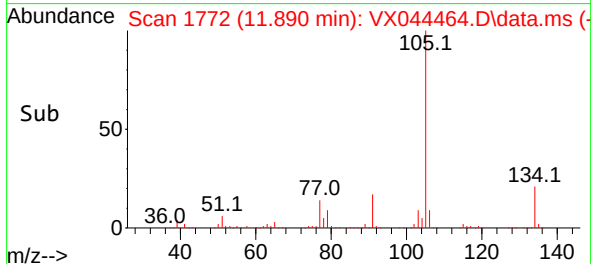
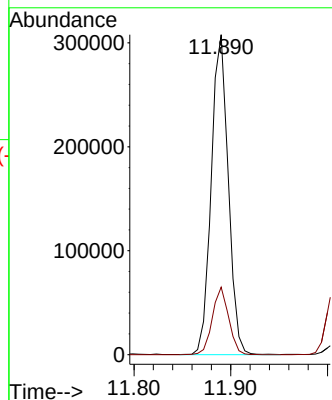
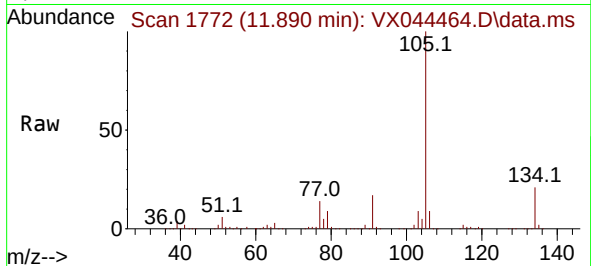




#85
 sec-Butylbenzene
 Concen: 50.546 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. -0.000 min
 Lab File: VX044464.D
 Acq: 20 Dec 2024 19:49

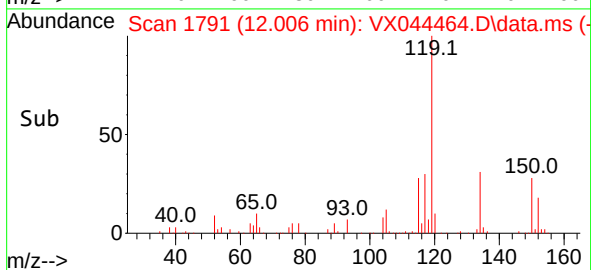
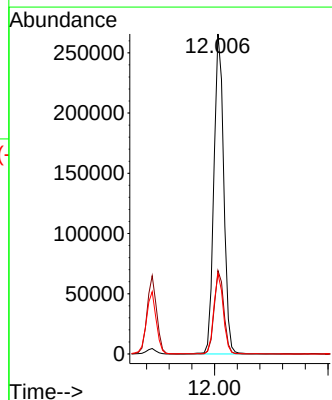
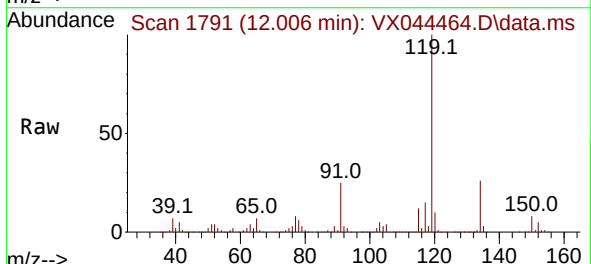
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

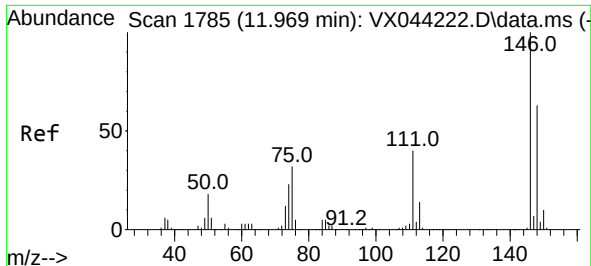
Tgt Ion:105 Resp: 376639
 Ion Ratio Lower Upper
 105 100
 134 20.2 9.8 29.4



#86
 p-Isopropyltoluene
 Concen: 51.504 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. -0.000 min
 Lab File: VX044464.D
 Acq: 20 Dec 2024 19:49

Tgt Ion:119 Resp: 319422
 Ion Ratio Lower Upper
 119 100
 134 25.6 12.8 38.4
 91 24.1 13.0 39.0

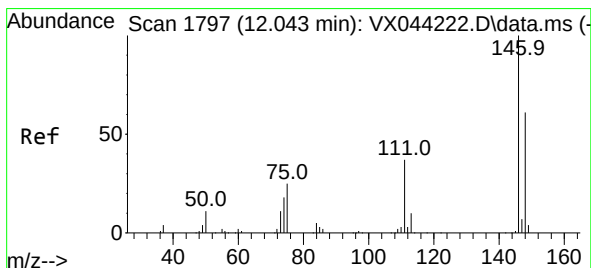
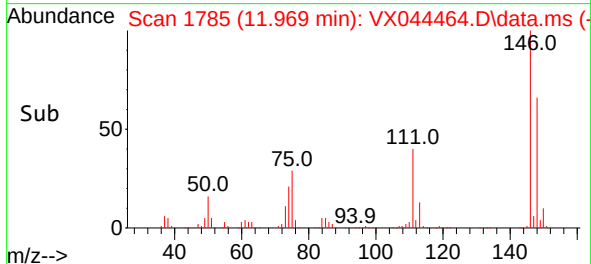
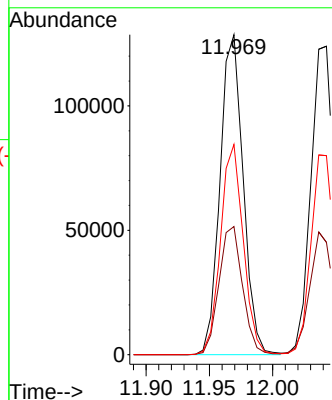
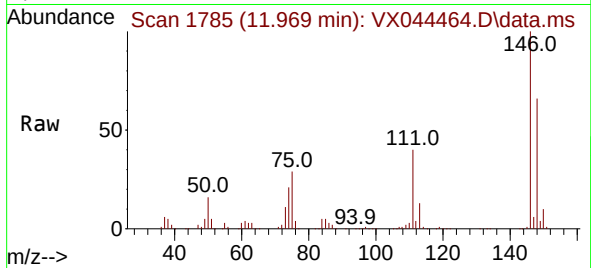




#87
1,3-Dichlorobenzene
Concen: 51.480 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

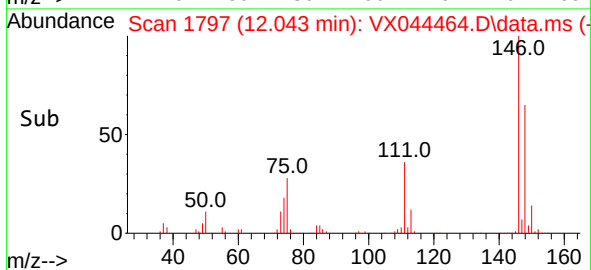
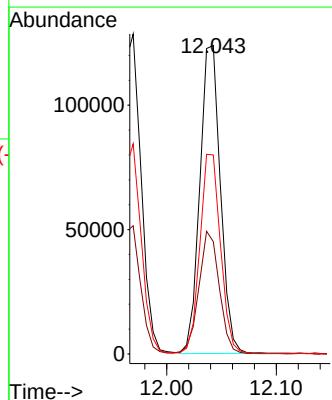
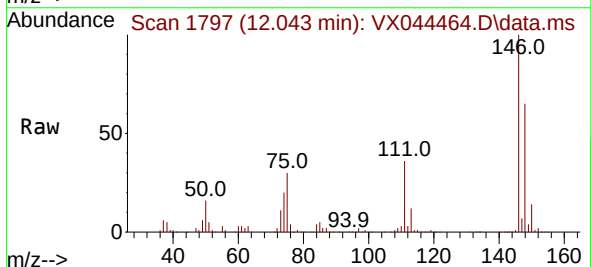
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

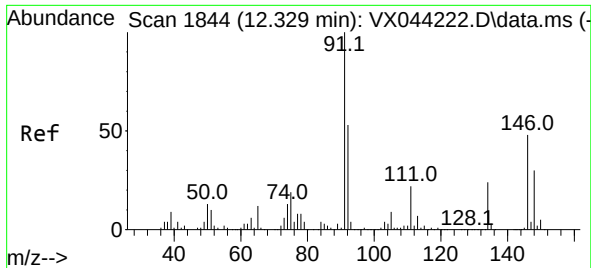
Tgt Ion:146 Resp: 163311
Ion Ratio Lower Upper
146 100
111 40.9 21.4 64.2
148 64.7 31.7 95.1



#88
1,4-Dichlorobenzene
Concen: 49.579 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:146 Resp: 161681
Ion Ratio Lower Upper
146 100
111 39.8 21.0 63.0
148 65.1 32.3 96.8





#89

n-Butylbenzene

Concen: 50.212 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX044464.D

Acq: 20 Dec 2024 19:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

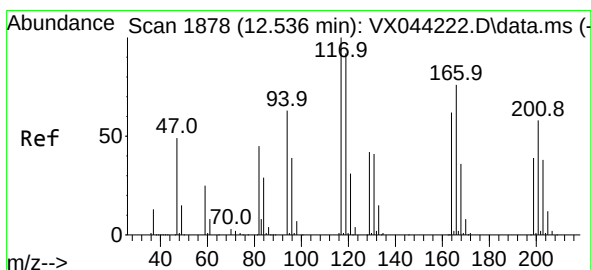
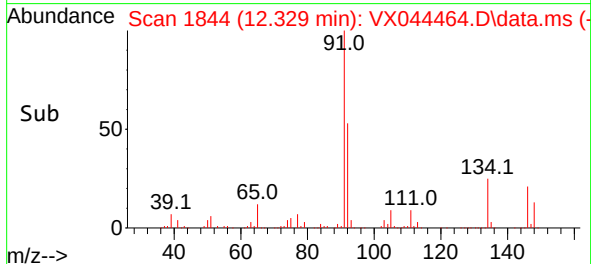
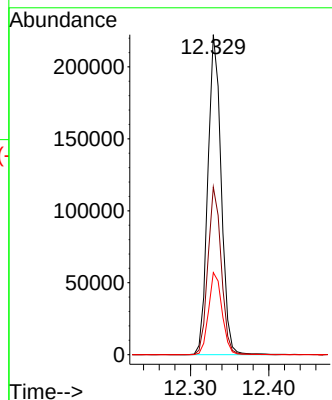
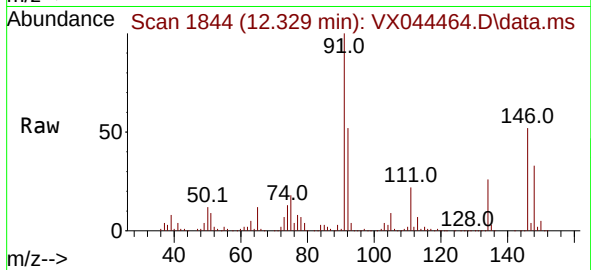
Tgt Ion: 91 Resp: 261860

Ion Ratio Lower Upper

91 100

92 52.2 26.6 79.7

134 26.0 12.6 37.8



#90

Hexachloroethane

Concen: 52.940 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX044464.D

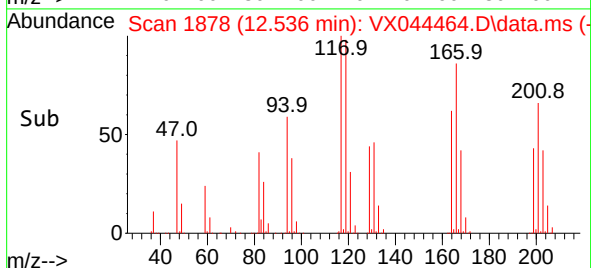
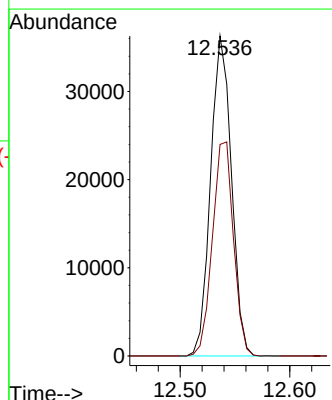
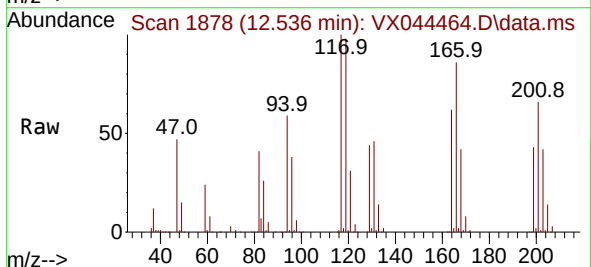
Acq: 20 Dec 2024 19:49

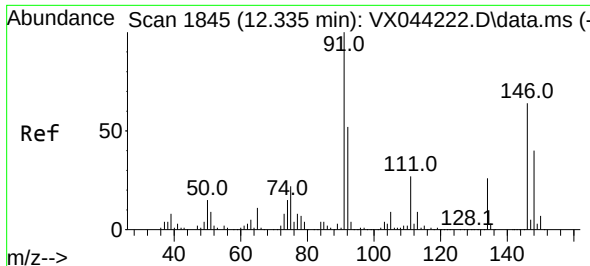
Tgt Ion: 117 Resp: 47928

Ion Ratio Lower Upper

117 100

201 67.8 31.4 94.2

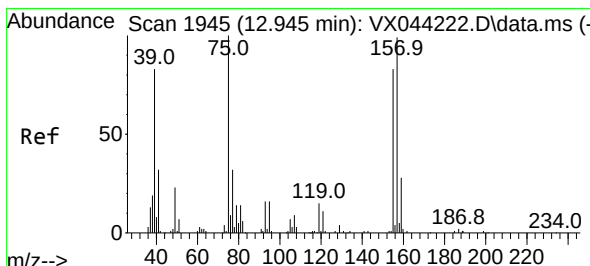
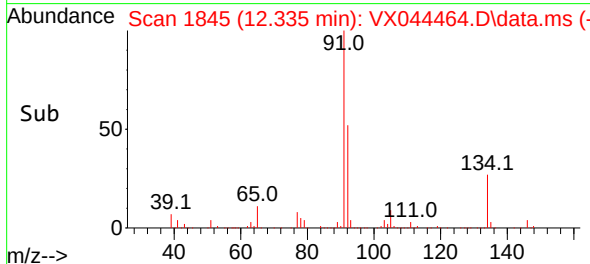
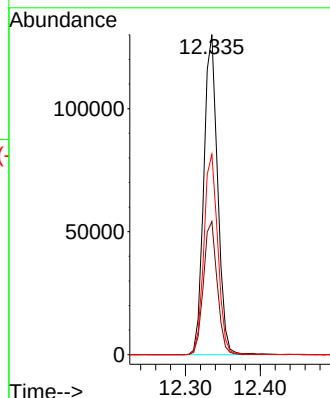
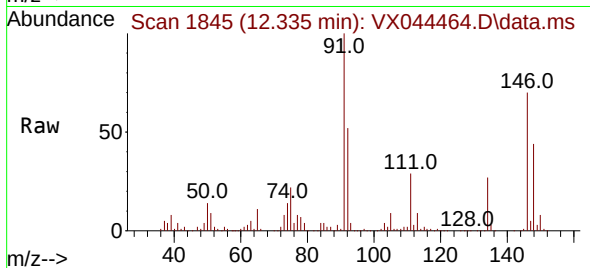




#91
1,2-Dichlorobenzene
Concen: 50.764 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

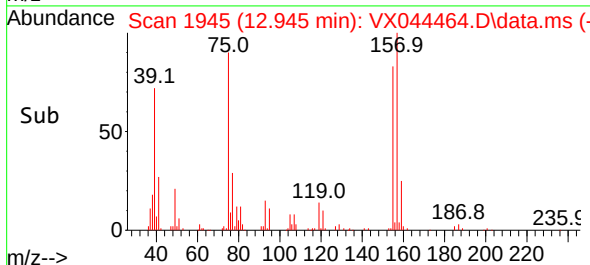
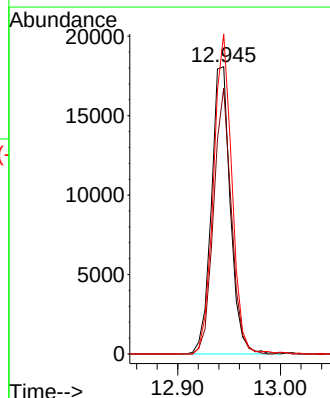
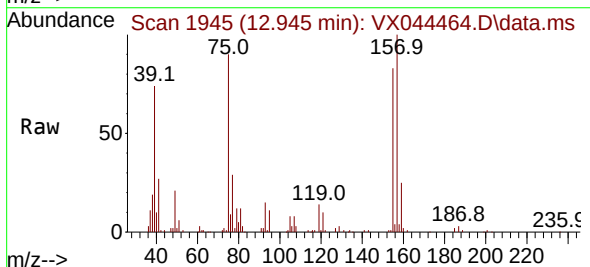
Instrument :
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ClientSampleId :
VSTDCCC050EC

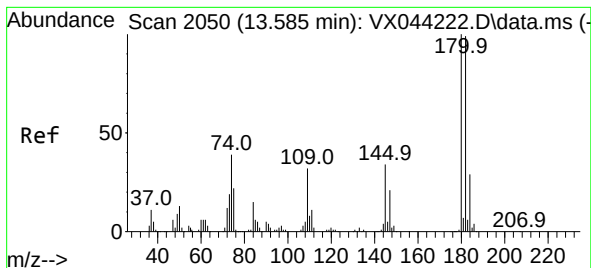
Tgt Ion:146 Resp: 167214
Ion Ratio Lower Upper
146 100
111 41.4 21.4 64.3
148 63.1 31.6 95.0



#92
1,2-Dibromo-3-Chloropropane
Concen: 46.042 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 75 Resp: 23250
Ion Ratio Lower Upper
75 100
155 86.4 38.1 114.3
157 107.8 47.2 141.6

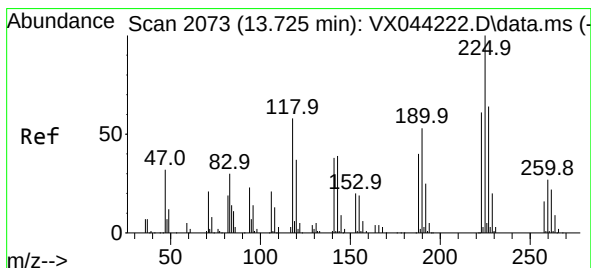
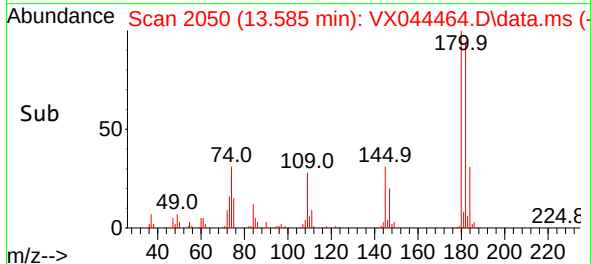
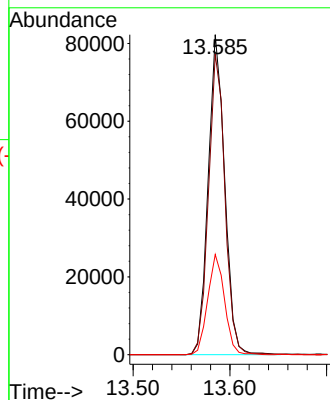
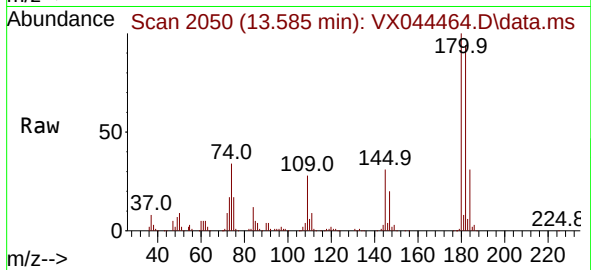




#93
 1,2,4-Trichlorobenzene
 Concen: 54.188 ug/l
 RT: 13.585 min Scan# 2050
 Delta R.T. -0.000 min
 Lab File: VX044464.D
 Acq: 20 Dec 2024 19:49

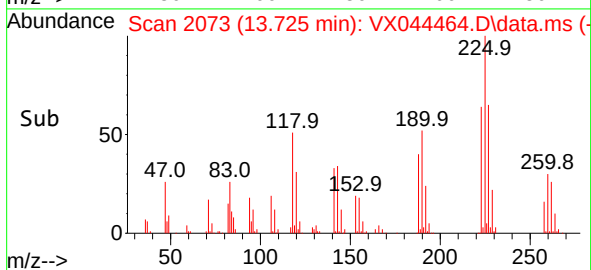
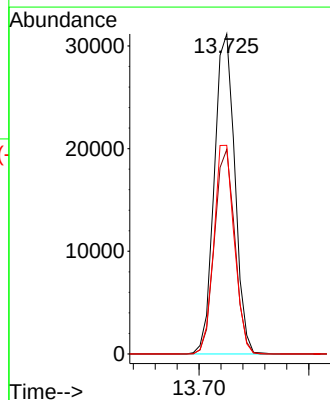
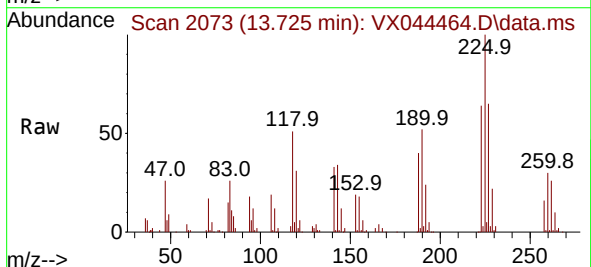
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

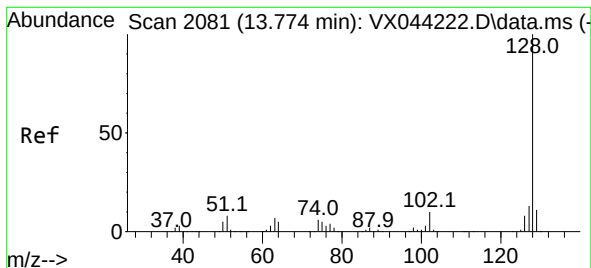
Tgt Ion:180 Resp: 97858
 Ion Ratio Lower Upper
 180 100
 182 93.8 48.0 144.2
 145 31.9 16.6 49.7



#94
 Hexachlorobutadiene
 Concen: 55.763 ug/l
 RT: 13.725 min Scan# 2073
 Delta R.T. -0.000 min
 Lab File: VX044464.D
 Acq: 20 Dec 2024 19:49

Tgt Ion:225 Resp: 40506
 Ion Ratio Lower Upper
 225 100
 223 63.3 30.8 92.4
 227 65.0 32.1 96.3

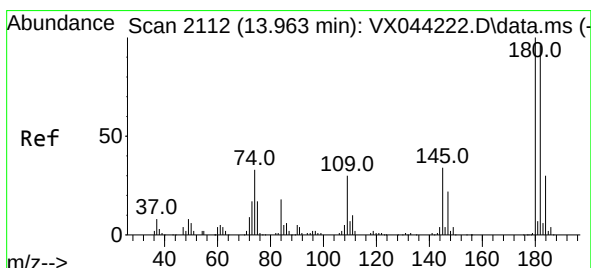
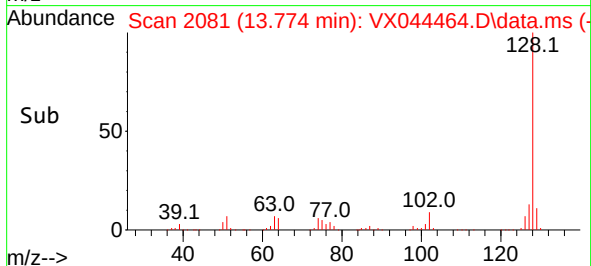
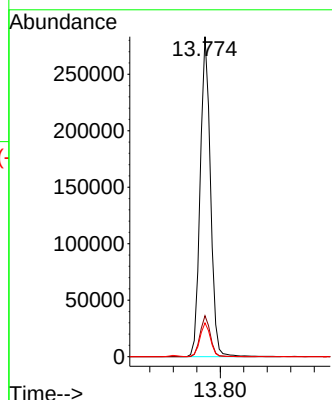
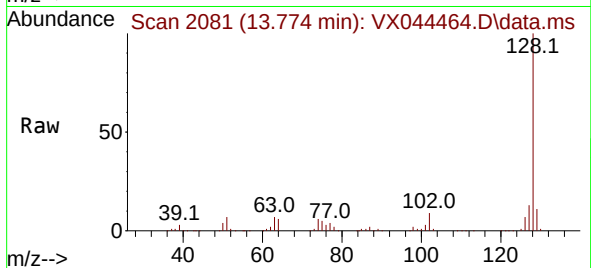




#95
Naphthalene
Concen: 48.680 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:	128	Resp:	343151
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	10.7	9.0	13.4



#96
1,2,3-Trichlorobenzene
Concen: 52.939 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:	180	Resp:	101400
Ion	Ratio	Lower	Upper
180	100		
182	96.2	48.0	144.0
145	31.9	17.7	53.1

