

Cover Page

Order ID : P3845

Project ID : NJ Waste Water PT

Client : Chemtech Consulting Group

Lab Sample Number

P3845-01
P3845-02
P3845-03
P3845-04
P3845-05
P3845-06
P3845-07
P3845-08
P3845-09
P3845-10
P3845-11
P3845-12
P3845-13
P3845-14
P3845-15
P3845-16
P3845-17
P3845-18
P3845-19
P3845-20
P3845-21
P3845-22

Client Sample Number

PT-VOA-WP
PT-VOA-WP
PT-BN-WP
PT-BN-WP
PT-BN-WP
PT-ACIDS-WP
PT-ACIDS-WP
PT-ACIDS-WP
PT-PEST-WP
PT-PEST-WP
PT-CHLR-WP
PT-CHLR-WP
PT-TXP-WP
PT-TXP-WP
PT-PCBW-WP
PT-PCBW-WP
PT-HERB-WP
RR-GAS-WP
RR-DIES-WP
RR-8011-WP
RR-PAH-WP
RR-TRIAZINE-WP

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

Signature : _____

Date: 10/21/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Chemtech Consulting Group

Project Name: NJ Waste Water PT

Project # N/A

Chemtech Project # P3845

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

22 Water samples were received on 09/05/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide group1, PCB, PESTICIDE Group1, PESTICIDE Group2, PESTICIDE Group3, SVOCMS Group1, SVOCMS Group2, SVOCMS Group3, SVOCMS Group4, SVOCMS Group5, SVOCMS Group6, VOCGC Group 1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868. The analysis of VOCMS Group1 was based on method 8260D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike Duplicate met requirements for all samples.

The Blank Spike for {VN0911WBS01} with File ID: VN083799.D met requirements for all samples except for Isopropylacetate[119%] is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike for {VN0910WBS01} with File ID: VN083753.D met requirements for all samples except for 1,3-Dichlorobenzene[81%], 1,4-Dichlorobenzene[80%] are failing marginally low therefore no corrective action taken.

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

The %RSD is greater than 15% in the Initial Calibration method (82N091024W.M) for Chloromethane , Methyl Acetate this compound is passing on Linear Regression.



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

The Continuous Calibration File ID VN083791.D met the requirements except for 2-Chloroethyl Vinyl ether and Isopropyl Acetate are failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

Sample PT-VOA-WP was diluted due to high concentration.

E. Additional Comments:

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

F. Manual Integration Comments:

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

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

Signature_____

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: P3845

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 15% in the Initial Calibration method (82N091024W.M) for Chloromethane , Methyl Acetate this compound is passing on Linear Regression. The Continuous Calibration File ID VN083791.D met the requirements except for 2- Chloroethyl Vinyl ether and Isopropyl Acetate are failing high but no positive hit in associate sample therefore no corrective action taken.		✓	
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike Duplicate met requirements for all samples. The Blank Spike for {VN0911WBS01} with File ID: VN083799.D met requirements for all samples except for Isopropylacetate[119%] is failing high but no positive hit in associate sample therefore no corrective action taken. The Blank Spike for {VN0910WBS01} with File ID: VN083753.D met requirements for all samples except for 1,3-Dichlorobenzene[81%], 1,4-Dichlorobenzene[80%] are failing marginally low therefore no corrective action taken.		✓	
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

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

NA NO YES

10. Analysis Holding Time Met

✓

If not met, list number of days exceeded for each sample:

ADDITIONAL COMMENTS:

Sample PT-VOA-WP was diluted due to high concentration.

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3845

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: MAYUR DESAI

Date: 10/21/2024

LAB CHRONICLE

OrderID: P3845
Client: Chemtech Consulting Group
Contact: QA Officer

OrderDate: 9/5/2024 2:19:00 PM
Project: NJ Waste Water PT
Location: QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3845-01	PT-VOA-WP	Water	VOCMS Group1	8260-Low	09/03/24		09/10/24	09/05/24
P3845-01DL	PT-VOA-WPDL	Water	VOCMS Group1	8260-Low	09/03/24		09/11/24	09/05/24
P3845-02	PT-VOA-WP	Water	VOCMS Group1	624.1	09/03/24		09/09/24	09/05/24

Hit Summary Sheet SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	PT-VOA-WP							
P3845-01	PT-VOA-WP	Water	Vinyl Chloride	34.7		0.34	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Bromomethane	47.4		1.40	5.00	ug/L
P3845-01	PT-VOA-WP	Water	Acetone	41.1		1.40	5.00	ug/L
P3845-01	PT-VOA-WP	Water	Methyl tert-butyl Ether	74.2		0.16	1.00	ug/L
P3845-01	PT-VOA-WP	Water	trans-1,2-Dichloroethene	100	E	0.25	1.00	ug/L
P3845-01	PT-VOA-WP	Water	2-Butanone	90.7		1.30	5.00	ug/L
P3845-01	PT-VOA-WP	Water	cis-1,2-Dichloroethene	21.1		0.25	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Chloroform	22.9		0.26	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Benzene	41.3		0.16	1.00	ug/L
P3845-01	PT-VOA-WP	Water	1,2-Dichloroethane	140	E	0.24	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Trichloroethene	57.8		0.32	1.00	ug/L
P3845-01	PT-VOA-WP	Water	1,2-Dichloropropane	20.9		0.19	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Dibromomethane	15.5		0.23	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Bromodichloromethane	93.4		0.24	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Toluene	100	E	0.18	1.00	ug/L
P3845-01	PT-VOA-WP	Water	t-1,3-Dichloropropene	110	E	0.21	1.00	ug/L
P3845-01	PT-VOA-WP	Water	cis-1,3-Dichloropropene	110	E	0.18	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Dibromochloromethane	31.2		0.18	1.00	ug/L
P3845-01	PT-VOA-WP	Water	1,2-Dibromoethane	40.8		0.16	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Chlorobenzene	46.9		0.13	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Ethyl Benzene	90.8		0.16	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Total Xylenes	147		0.45	3.00	ug/L
P3845-01	PT-VOA-WP	Water	m/p-Xylenes	27.1		0.31	2.00	ug/L
P3845-01	PT-VOA-WP	Water	o-Xylene	120	E	0.14	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Styrene	110	E	0.16	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Bromoform	78.8		0.21	1.00	ug/L
P3845-01	PT-VOA-WP	Water	1,2,3-Trichloropropane	100	E	0.39	1.00	ug/L
P3845-01	PT-VOA-WP	Water	1,3,5-Trimethylbenzene	30.9		0.18	1.00	ug/L
P3845-01	PT-VOA-WP	Water	1,2,4-Trimethylbenzene	15.8		0.18	1.00	ug/L
P3845-01	PT-VOA-WP	Water	1,3-Dichlorobenzene	97.7	Q	0.24	1.00	ug/L
P3845-01	PT-VOA-WP	Water	1,4-Dichlorobenzene	40.2	Q	0.27	1.00	ug/L
P3845-01	PT-VOA-WP	Water	1,2-Dichlorobenzene	14.0		0.19	1.00	ug/L
P3845-01	PT-VOA-WP	Water	1,2-Dibromo-3-Chloropropane	130	E	0.46	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Naphthalene	74.8		0.59	1.00	ug/L
Total Voc :				2170				
Total Concentration:				2170				

Hit Summary Sheet
SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: PT-VOA-WPDL								
P3845-01DL	PT-VOA-WPDL	Water	Vinyl Chloride	32.9	D	0.68	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Bromomethane	44.7	D	2.70	10.0	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Acetone	41.1	D	2.80	10.0	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Methyl tert-butyl Ether	69.5	D	0.32	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	trans-1,2-Dichloroethene	96.2	D	0.50	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	2-Butanone	86.6	D	2.60	10.0	ug/L
P3845-01DL	PT-VOA-WPDL	Water	cis-1,2-Dichloroethene	19.6	D	0.50	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Chloroform	20.8	D	0.52	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Benzene	37.3	D	0.32	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	1,2-Dichloroethane	130	D	0.48	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Trichloroethene	53.3	D	0.64	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	1,2-Dichloropropane	20.2	D	0.38	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Dibromomethane	15.2	D	0.46	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Bromodichloromethane	86.7	D	0.48	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Toluene	90.7	D	0.36	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	t-1,3-Dichloropropene	98.5	D	0.42	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	cis-1,3-Dichloropropene	98.2	D	0.36	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Dibromochloromethane	27.7	D	0.36	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	1,2-Dibromoethane	37.8	D	0.32	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Chlorobenzene	41.2	D	0.26	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Ethyl Benzene	78.7	D	0.32	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Total Xylenes	123	D	0.90	6.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	m/p-Xylenes	23.9	D	0.62	4.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	o-Xylene	98.8	D	0.28	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Styrene	93.1	D	0.32	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Bromoform	66.8	D	0.42	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	1,2,3-Trichloropropane	87.7	D	0.78	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	1,3,5-Trimethylbenzene	25.7	D	0.36	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	1,2,4-Trimethylbenzene	12.5	D	0.36	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	1,3-Dichlorobenzene	80.7	D	0.48	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	1,4-Dichlorobenzene	34.2	D	0.54	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	1,2-Dichlorobenzene	11.6	D	0.38	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	1,2-Dibromo-3-Chloropropane	110	D	0.92	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Naphthalene	59.4	D	1.20	2.00	ug/L
Total Voc :				1930				
Total Concentration:				1930				

Hit Summary Sheet
SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units



QC SUMMARY

Surrogate Summary

SDG No.: **P3845**

Client: **Chemtech Consulting Group**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P3845-01	PT-VOA-WP	1,2-Dichloroethane-d4	50	48.1	96	74	125
		Dibromofluoromethane	50	45.7	91	75	124
		Toluene-d8	50	48.6	97	86	113
		4-Bromofluorobenzene	50	44.6	89	77	121
P3845-01DL	PT-VOA-WPDL	1,2-Dichloroethane-d4	50	52.3	105	74	125
		Dibromofluoromethane	50	49.0	98	75	124
		Toluene-d8	50	51.0	102	86	113
		4-Bromofluorobenzene	50	49.1	98	77	121
VN0910WBL01	VN0910WBL01	1,2-Dichloroethane-d4	50	52.5	105	74	125
		Dibromofluoromethane	50	48.0	96	75	124
		Toluene-d8	50	48.1	96	86	113
		4-Bromofluorobenzene	50	53.5	107	77	121
VN0910WBS01	VN0910WBS01	1,2-Dichloroethane-d4	50	50.0	100	74	125
		Dibromofluoromethane	50	48.3	97	75	124
		Toluene-d8	50	50.8	102	86	113
		4-Bromofluorobenzene	50	47.3	95	77	121
VN0910WBSD0	VN0910WBSD01	1,2-Dichloroethane-d4	50	46.9	94	74	125
		Dibromofluoromethane	50	45.8	92	75	124
		Toluene-d8	50	48.4	97	86	113
		4-Bromofluorobenzene	50	45.1	90	77	121
VN0911WBL01	VN0911WBL01	1,2-Dichloroethane-d4	50	55.7	111	74	125
		Dibromofluoromethane	50	49.4	99	75	124
		Toluene-d8	50	51.1	102	86	113
		4-Bromofluorobenzene	50	57.0	114	77	121
VN0911WBS01	VN0911WBS01	1,2-Dichloroethane-d4	50	50.6	101	74	125
		Dibromofluoromethane	50	48.7	97	75	124
		Toluene-d8	50	51.5	103	86	113
		4-Bromofluorobenzene	50	47.0	94	77	121

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: **P3845**

Client: **Chemtech Consulting Group**

Analytical Method: **SW8260-Low**

Datafile : VN083753.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0910WBS01	Dichlorodifluoromethane	20	18.7	ug/L	94			69	116	
	Chloromethane	20	18.1	ug/L	91			65	116	
	Vinyl chloride	20	17.5	ug/L	88			65	117	
	Ethyl Acetate	20	18.7	ug/L	94			75	115	
	Isopropylacetate	20	18.1	ug/L	91			84	106	
	Bromomethane	20	17.3	ug/L	86			58	125	
	Chloroethane	20	16.0	ug/L	80			56	128	
	Trichlorofluoromethane	20	17.6	ug/L	88			73	115	
	1,1,2-Trichlorotrifluoroethane	20	17.8	ug/L	89			80	112	
	Tert butyl alcohol	100	93.1	ug/L	93			73	124	
	Diethyl Ether	20	17.2	ug/L	86			80	105	
	1,1-Dichloroethene	20	17.6	ug/L	88			74	110	
	Acrolein	100	100	ug/L	100			51	143	
	Acrylonitrile	100	90.8	ug/L	91			73	113	
	Acetone	100	96.0	ug/L	96			60	125	
	Carbon disulfide	20	16.6	ug/L	83			64	112	
	Methyl tert-butyl Ether	20	17.9	ug/L	90			78	114	
	Methyl Acetate	20	18.5	ug/L	93			67	125	
	Methylene Chloride	20	17.9	ug/L	90			72	114	
	trans-1,2-Dichloroethene	20	16.6	ug/L	83			75	108	
	Vinyl Acetate	100	90.9	ug/L	91			76	115	
	1,1-Dichloroethane	20	17.3	ug/L	86			78	112	
	Cyclohexane	20	16.6	ug/L	83			75	110	
	2-Butanone	100	93.6	ug/L	94			65	122	
	Carbon Tetrachloride	20	17.7	ug/L	89			77	113	
	2,2-Dichloropropane	20	18.2	ug/L	91			75	116	
	cis-1,2-Dichloroethene	20	17.7	ug/L	89			77	110	
	Chloroform	20	17.6	ug/L	88			79	113	
	1,1,1-Trichloroethane	20	17.9	ug/L	90			80	108	
	Methylcyclohexane	20	17.8	ug/L	89			72	115	
	1,1-Dichloropropene	20	16.7	ug/L	84			79	110	
	Benzene	20	17.5	ug/L	88			82	109	
	1,2-Dichloroethane	20	18.1	ug/L	91			80	115	
	Trichloroethene	20	17.1	ug/L	86			77	113	
	1,2-Dichloropropane	20	17.6	ug/L	88			83	111	
	Dibromomethane	20	18.1	ug/L	91			82	110	
	Bromodichloromethane	20	18.1	ug/L	91			83	110	
	4-Methyl-2-Pentanone	100	94.3	ug/L	94			74	118	
	Toluene	20	18.2	ug/L	91			82	110	
	t-1,3-Dichloropropene	20	17.5	ug/L	88			79	110	
	cis-1,3-Dichloropropene	20	17.4	ug/L	87			82	110	
	1,1,2-Trichloroethane	20	17.4	ug/L	87			83	112	
	1,3-Dichloropropane	20	18.3	ug/L	92			83	111	
	2-Chloroethyl vinyl ether	100	92.5	ug/L	93			75	124	
	2-Hexanone	100	96.6	ug/L	97			73	117	
	Dibromochloromethane	20	18.5	ug/L	93			82	110	
	1,2-Dibromoethane	20	18.3	ug/L	92			81	110	
	Tetrachloroethene	20	16.9	ug/L	85			67	123	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Analytical Method: SW8260-Low

Datafile : VN083753.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0910WBS01	Chlorobenzene	20	16.9	ug/L	85			82	109	
	1,1,1,2-Tetrachloroethane	20	17.0	ug/L	85			84	111	
	Hexachloroethane	20	17.5	ug/L	88			80	113	
	Ethyl Benzene	20	17.4	ug/L	87			83	109	
	m/p-Xylenes	40	34.9	ug/L	87			82	110	
	o-Xylene	20	17.7	ug/L	89			83	109	
	Styrene	20	17.9	ug/L	90			80	111	
	Bromoform	20	18.5	ug/L	93			79	109	
	Isopropylbenzene	20	17.4	ug/L	87			83	112	
	1,1,2,2-Tetrachloroethane	20	17.4	ug/L	87			76	118	
	1,2,3-Trichloropropane	20	17.6	ug/L	88			75	112	
	Bromobenzene	20	17.3	ug/L	86			77	116	
	N-propylbenzene	20	17.7	ug/L	89			83	112	
	2-Chlorotoluene	20	17.5	ug/L	88			83	110	
	1,3,5-Trimethylbenzene	20	17.6	ug/L	88			85	112	
	4-Chlorotoluene	20	17.4	ug/L	87			82	110	
	tert-Butylbenzene	20	17.6	ug/L	88			83	112	
	1,2,4-Trimethylbenzene	20	17.7	ug/L	89			85	111	
	Sec-butylbenzene	20	17.5	ug/L	88			81	114	
	p-Isopropyltoluene	20	17.5	ug/L	88			78	116	
	1,3-Dichlorobenzene	20	16.3	ug/L	81		*	82	108	
	1,4-Dichlorobenzene	20	16.0	ug/L	80		*	82	107	
	n-Butylbenzene	20	16.5	ug/L	83			75	115	
	1,2-Dichlorobenzene	20	16.9	ug/L	85			82	109	
	1,2-Dibromo-3-Chloropropane	20	18.9	ug/L	95			68	112	
	1,2,4-Trichlorobenzene	20	16.0	ug/L	80			75	113	
	Hexachlorobutadiene	20	16.4	ug/L	82			81	121	
	Naphthalene	20	17.1	ug/L	86			78	119	
	1,2,3-Trichlorobenzene	20	16.1	ug/L	81			76	114	
	N-amyl acetate	20	18.0	ug/L	90			82	107	
	Allyl chloride	20	18.0	ug/L	90			83	103	
	Methacrylonitrile	20	18.3	ug/L	92			78	113	
	trans-1,4-Dichloro-2-butene	20	17.2	ug/L	86			79	102	
	1,4-Dioxane	400	370	ug/L	93			54	145	
	Methyl methacrylate	20	18.1	ug/L	91			81	126	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: **P3845**

Client: **Chemtech Consulting Group**

Analytical Method: **SW8260-Low**

Datafile : VN083754.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0910WBSD01	Dichlorodifluoromethane	20	19.4	ug/L	97	3		69	116	20
	Chloromethane	20	18.7	ug/L	94	3		65	116	20
	Vinyl chloride	20	18.7	ug/L	94	7		65	117	20
	Ethyl Acetate	20	20.6	ug/L	103	9		75	115	20
	Isopropylacetate	20	19.4	ug/L	97	6		84	106	20
	Bromomethane	20	19.1	ug/L	96	11		58	125	20
	Chloroethane	20	18.4	ug/L	92	14		56	128	20
	Trichlorofluoromethane	20	18.5	ug/L	93	6		73	115	20
	1,1,2-Trichlorotrifluoroethane	20	19.2	ug/L	96	8		80	112	20
	Tert butyl alcohol	100	100	ug/L	100	7		73	124	20
	Diethyl Ether	20	18.2	ug/L	91	6		80	105	20
	1,1-Dichloroethene	20	18.7	ug/L	94	7		74	110	20
	Acrolein	100	100	ug/L	100	0		51	143	20
	Acrylonitrile	100	97.4	ug/L	97	6		73	113	20
	Acetone	100	96.1	ug/L	96	0		60	125	20
	Carbon disulfide	20	17.8	ug/L	89	7		64	112	20
	Methyl tert-butyl Ether	20	18.9	ug/L	95	5		78	114	20
	Methyl Acetate	20	21.0	ug/L	105	12		67	125	20
	Methylene Chloride	20	19.0	ug/L	95	5		72	114	20
	trans-1,2-Dichloroethene	20	18.1	ug/L	91	9		75	108	20
	Vinyl Acetate	100	97.5	ug/L	98	7		76	115	20
	1,1-Dichloroethane	20	18.5	ug/L	93	8		78	112	20
	Cyclohexane	20	17.8	ug/L	89	7		75	110	20
	2-Butanone	100	97.6	ug/L	98	4		65	122	20
	Carbon Tetrachloride	20	18.9	ug/L	95	7		77	113	20
	2,2-Dichloropropane	20	18.5	ug/L	93	2		75	116	20
	cis-1,2-Dichloroethene	20	18.5	ug/L	93	4		77	110	20
	Chloroform	20	18.2	ug/L	91	3		79	113	20
	1,1,1-Trichloroethane	20	18.3	ug/L	92	2		80	108	20
	Methylcyclohexane	20	18.7	ug/L	94	5		72	115	20
	1,1-Dichloropropene	20	18.1	ug/L	91	8		79	110	20
	Benzene	20	18.8	ug/L	94	7		82	109	20
	1,2-Dichloroethane	20	18.9	ug/L	95	4		80	115	20
	Trichloroethene	20	18.7	ug/L	94	9		77	113	20
	1,2-Dichloropropane	20	18.5	ug/L	93	6		83	111	20
	Dibromomethane	20	19.4	ug/L	97	6		82	110	20
	Bromodichloromethane	20	18.8	ug/L	94	3		83	110	20
	4-Methyl-2-Pentanone	100	100	ug/L	100	6		74	118	20
	Toluene	20	18.7	ug/L	94	3		82	110	20
	t-1,3-Dichloropropene	20	18.9	ug/L	95	8		79	110	20
	cis-1,3-Dichloropropene	20	19.1	ug/L	96	10		82	110	20
	1,1,2-Trichloroethane	20	19.0	ug/L	95	9		83	112	20
	1,3-Dichloropropane	20	19.4	ug/L	97	5		83	111	20
	2-Chloroethyl vinyl ether	100	95.2	ug/L	95	2		75	124	20
	2-Hexanone	100	100	ug/L	100	3		73	117	20
	Dibromochloromethane	20	19.1	ug/L	96	3		82	110	20
	1,2-Dibromoethane	20	19.3	ug/L	97	5		81	110	20
	Tetrachloroethene	20	17.8	ug/L	89	5		67	123	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Analytical Method: SW8260-Low

Datafile : VN083754.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0910WBSD01	Chlorobenzene	20	18.3	ug/L	92	8		82	109	20
	1,1,1,2-Tetrachloroethane	20	19.1	ug/L	96	12		84	111	20
	Ethyl Benzene	20	18.8	ug/L	94	8		83	109	20
	m/p-Xylenes	40	37.0	ug/L	93	7		82	110	20
	o-Xylene	20	19.0	ug/L	95	7		83	109	20
	Styrene	20	19.0	ug/L	95	5		80	111	20
	Bromoform	20	19.7	ug/L	99	6		79	109	20
	Isopropylbenzene	20	18.5	ug/L	93	7		83	112	20
	1,1,2,2-Tetrachloroethane	20	19.5	ug/L	98	12		76	118	20
	1,2,3-Trichloropropane	20	18.5	ug/L	93	6		75	112	20
	Bromobenzene	20	17.8	ug/L	89	3		77	116	20
	N-propylbenzene	20	18.4	ug/L	92	3		83	112	20
	2-Chlorotoluene	20	18.8	ug/L	94	7		83	110	20
	1,3,5-Trimethylbenzene	20	18.2	ug/L	91	3		85	112	20
	4-Chlorotoluene	20	18.6	ug/L	93	7		82	110	20
	tert-Butylbenzene	20	18.7	ug/L	94	7		83	112	20
	1,2,4-Trimethylbenzene	20	18.8	ug/L	94	5		85	111	20
	Sec-butylbenzene	20	18.6	ug/L	93	6		81	114	20
	p-Isopropyltoluene	20	18.4	ug/L	92	4		78	116	20
	1,3-Dichlorobenzene	20	18.1	ug/L	91	12		82	108	20
	1,4-Dichlorobenzene	20	17.6	ug/L	88	10		82	107	20
	n-Butylbenzene	20	18.0	ug/L	90	8		75	115	20
	1,2-Dichlorobenzene	20	18.5	ug/L	93	9		82	109	20
	1,2-Dibromo-3-Chloropropane	20	20.0	ug/L	100	5		68	112	20
	1,2,4-Trichlorobenzene	20	17.4	ug/L	87	8		75	113	20
	Hexachlorobutadiene	20	18.0	ug/L	90	9		81	121	20
	Naphthalene	20	18.6	ug/L	93	8		78	119	20
	1,2,3-Trichlorobenzene	20	17.2	ug/L	86	6		76	114	20
	N-amyl acetate	20	19.5	ug/L	98	9		82	107	20
	Allyl chloride	20	18.9	ug/L	95	5		83	103	20
	Methacrylonitrile	20	19.1	ug/L	96	4		78	113	20
	trans-1,4-Dichloro-2-butene	20	19.9	ug/L	100	15		79	102	20
	1,4-Dioxane	400	390	ug/L	98	5		54	145	20
	Methyl methacrylate	20	19.2	ug/L	96	5		81	126	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: **P3845**

Client: **Chemtech Consulting Group**

Analytical Method: **SW8260-Low**

Datafile : VN083799.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0911WBS01	Dichlorodifluoromethane	20	19.3	ug/L	97			69	116	
	Chloromethane	20	18.5	ug/L	93			65	116	
	Vinyl chloride	20	18.4	ug/L	92			65	117	
	Ethyl Acetate	20	21.2	ug/L	106			75	115	
	Isopropylacetate	20	23.8	ug/L	119		*	84	106	
	Bromomethane	20	19.4	ug/L	97			58	125	
	Chloroethane	20	18.9	ug/L	95			56	128	
	Trichlorofluoromethane	20	19.0	ug/L	95			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.4	ug/L	97			80	112	
	Tert butyl alcohol	100	100	ug/L	100			73	124	
	Diethyl Ether	20	19.1	ug/L	96			80	105	
	1,1-Dichloroethene	20	18.7	ug/L	94			74	110	
	Acrolein	100	89.8	ug/L	90			51	143	
	Acrylonitrile	100	100	ug/L	100			73	113	
	Acetone	100	90.0	ug/L	90			60	125	
	Carbon disulfide	20	17.3	ug/L	86			64	112	
	Methyl tert-butyl Ether	20	19.3	ug/L	97			78	114	
	Methyl Acetate	20	21.4	ug/L	107			67	125	
	Methylene Chloride	20	19.1	ug/L	96			72	114	
	trans-1,2-Dichloroethene	20	18.3	ug/L	92			75	108	
	Vinyl Acetate	100	100	ug/L	100			76	115	
	1,1-Dichloroethane	20	19.0	ug/L	95			78	112	
	Cyclohexane	20	18.4	ug/L	92			75	110	
	2-Butanone	100	97.8	ug/L	98			65	122	
	Carbon Tetrachloride	20	18.9	ug/L	95			77	113	
	2,2-Dichloropropane	20	18.6	ug/L	93			75	116	
	cis-1,2-Dichloroethene	20	19.1	ug/L	96			77	110	
	Chloroform	20	18.9	ug/L	95			79	113	
	1,1,1-Trichloroethane	20	18.8	ug/L	94			80	108	
	Methylcyclohexane	20	18.7	ug/L	94			72	115	
	1,1-Dichloropropene	20	17.7	ug/L	89			79	110	
	Benzene	20	18.8	ug/L	94			82	109	
	1,2-Dichloroethane	20	20.5	ug/L	103			80	115	
	Trichloroethene	20	18.5	ug/L	93			77	113	
	1,2-Dichloropropane	20	19.8	ug/L	99			83	111	
	Dibromomethane	20	19.3	ug/L	97			82	110	
	Bromodichloromethane	20	19.3	ug/L	97			83	110	
	4-Methyl-2-Pentanone	100	110	ug/L	110			74	118	
	Toluene	20	19.1	ug/L	96			82	110	
	t-1,3-Dichloropropene	20	18.4	ug/L	92			79	110	
	cis-1,3-Dichloropropene	20	18.9	ug/L	95			82	110	
	1,1,2-Trichloroethane	20	18.8	ug/L	94			83	112	
	1,3-Dichloropropane	20	20.1	ug/L	101			83	111	
	2-Chloroethyl vinyl ether	100	110	ug/L	110			75	124	
	2-Hexanone	100	100	ug/L	100			73	117	
	Dibromochloromethane	20	19.7	ug/L	99			82	110	
	1,2-Dibromoethane	20	18.8	ug/L	94			81	110	
	Tetrachloroethene	20	17.4	ug/L	87			67	123	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Analytical Method: SW8260-Low

Datafile : VN083799.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0911WBS01	Chlorobenzene	20	18.1	ug/L	91			82	109	
	1,1,1,2-Tetrachloroethane	20	19.0	ug/L	95			84	111	
	Ethyl Benzene	20	18.6	ug/L	93			83	109	
	m/p-Xylenes	40	36.2	ug/L	91			82	110	
	o-Xylene	20	18.3	ug/L	92			83	109	
	Styrene	20	19.1	ug/L	96			80	111	
	Bromoform	20	20.2	ug/L	101			79	109	
	Isopropylbenzene	20	17.9	ug/L	90			83	112	
	1,1,2,2-Tetrachloroethane	20	18.8	ug/L	94			76	118	
	1,2,3-Trichloropropane	20	18.7	ug/L	94			75	112	
	Bromobenzene	20	17.3	ug/L	86			77	116	
	N-propylbenzene	20	17.5	ug/L	88			83	112	
	2-Chlorotoluene	20	18.1	ug/L	91			83	110	
	1,3,5-Trimethylbenzene	20	18.3	ug/L	92			85	112	
	4-Chlorotoluene	20	17.4	ug/L	87			82	110	
	tert-Butylbenzene	20	18.3	ug/L	92			83	112	
	1,2,4-Trimethylbenzene	20	18.4	ug/L	92			85	111	
	Sec-butylbenzene	20	18.0	ug/L	90			81	114	
	p-Isopropyltoluene	20	17.6	ug/L	88			78	116	
	1,3-Dichlorobenzene	20	16.7	ug/L	84			82	108	
	1,4-Dichlorobenzene	20	16.8	ug/L	84			82	107	
	n-Butylbenzene	20	16.3	ug/L	81			75	115	
	1,2-Dichlorobenzene	20	17.9	ug/L	90			82	109	
	1,2-Dibromo-3-Chloropropane	20	20.2	ug/L	101			68	112	
	1,2,4-Trichlorobenzene	20	16.3	ug/L	81			75	113	
	Hexachlorobutadiene	20	17.3	ug/L	86			81	121	
	Naphthalene	20	17.5	ug/L	88			78	119	
	1,2,3-Trichlorobenzene	20	16.1	ug/L	81			76	114	
	N-amyl acetate	20	19.7	ug/L	99			82	107	
	Allyl chloride	20	19.1	ug/L	96			83	103	
	Methacrylonitrile	20	19.5	ug/L	98			78	113	
	trans-1,4-Dichloro-2-butene	20	17.9	ug/L	90			79	102	
	1,4-Dioxane	400	420	ug/L	105			54	145	
	Methyl methacrylate	20	20.9	ug/L	104			81	126	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0910WBL01

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: P3845

SAS No.: P3845 SDG NO.: P3845

Lab File ID: VN083752.D

Lab Sample ID: VN0910WBL01

Date Analyzed: 09/10/2024

Time Analyzed: 14:34

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0910WBS01	VN0910WBS01	VN083753.D	09/10/2024
VN0910WBSD01	VN0910WBSD01	VN083754.D	09/10/2024
PT-VOA-WP	P3845-01	VN083755.D	09/10/2024

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0911WBL01

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: P3845

SAS No.: P3845 SDG NO.: P3845

Lab File ID: VN083793.D

Lab Sample ID: VN0911WBL01

Date Analyzed: 09/11/2024

Time Analyzed: 13:57

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PT-VOA-WPDL	P3845-01DL	VN083797.D	09/11/2024
VN0911WBS01	VN0911WBS01	VN083799.D	09/11/2024

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845
Lab File ID: VN083741.D BFB Injection Date: 09/10/2024
Instrument ID: MSVOA_N BFB Injection Time: 08:02
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.9
75	30.0 - 60.0% of mass 95	56.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.6 (0.9) 1
174	50.0 - 100.0% of mass 95	71.3
175	5.0 - 9.0% of mass 174	5.5 (7.7) 1
176	95.0 - 101.0% of mass 174	68.5 (96.1) 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
VSTDICC100	VSTDICC100	VN083742.D	09/10/2024	09:08
VSTDICCC050	VSTDICCC050	VN083743.D	09/10/2024	09:32
VSTDICC010	VSTDICC010	VN083745.D	09/10/2024	10:20
VSTDICC005	VSTDICC005	VN083746.D	09/10/2024	10:44
VSTDICC001	VSTDICC001	VN083747.D	09/10/2024	11:32
VSTDICC020	VSTDICC020	VN083749.D	09/10/2024	12:43
VN0910WBL01	VN0910WBL01	VN083752.D	09/10/2024	14:34
VN0910WBS01	VN0910WBS01	VN083753.D	09/10/2024	15:34
VN0910WBSD01	VN0910WBSD01	VN083754.D	09/10/2024	16:07
PT-VOA-WP	P3845-01	VN083755.D	09/10/2024	16:31



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845
Lab File ID: VN083790.D BFB Injection Date: 09/11/2024
Instrument ID: MSVOA_N BFB Injection Time: 12:25
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.1
75	30.0 - 60.0% of mass 95	58.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1 (1.4) 1
174	50.0 - 100.0% of mass 95	72.5
175	5.0 - 9.0% of mass 174	5.4 (7.5) 1
176	95.0 - 101.0% of mass 174	69.4 (95.7) 1
177	5.0 - 9.0% of mass 176	4.5 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN083791.D	09/11/2024	12:59
VN0911WBL01	VN0911WBL01	VN083793.D	09/11/2024	13:57
PT-VOA-WPDL	P3845-01DL	VN083797.D	09/11/2024	15:33
VN0911WBS01	VN0911WBS01	VN083799.D	09/11/2024	16:45

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845
Lab File ID: VN083743.D Date Analyzed: 09/10/2024
Instrument ID: MSVOA_N Time Analyzed: 09:32
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	172686	8.22	304866	9.10	265988	11.87
UPPER LIMIT	345372	8.724	609732	9.6	531976	12.365
LOWER LIMIT	86343	7.724	152433	8.6	132994	11.365
EPA SAMPLE NO.						
PT-VOA-WP	150997	8.22	261805	9.10	226980	11.87
VN0910WBL01	124023	8.22	258209	9.10	273442	11.87
VN0910WBS01	162351	8.22	280742	9.10	247046	11.87
VN0910WBSD01	155285	8.22	268277	9.10	233025	11.87

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: CHEM02
 Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845
 Lab File ID: VN083743.D Date Analyzed: 09/10/2024
 Instrument ID: MSVOA_N Time Analyzed: 09:32
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	127433	13.788				
UPPER LIMIT	254866	14.288				
LOWER LIMIT	63716.5	13.288				
EPA SAMPLE NO.						
PT-VOA-WP	109081	13.79				
VN0910WBL01	126892	13.79				
VN0910WBS01	118496	13.79				
VN0910WBSD01	112657	13.79				

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CHEM02
 Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845
 Lab File ID: VN083791.D Date Analyzed: 09/11/2024
 Instrument ID: MSVOA_N Time Analyzed: 12:59
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	152640	8.22	259748	9.10	228788	11.87
UPPER LIMIT	305280	8.724	519496	9.6	457576	12.365
LOWER LIMIT	76320	7.724	129874	8.6	114394	11.365
EPA SAMPLE NO.						
PT-VOA-WPDL	148437	8.22	263183	9.10	234657	11.87
VN0911WBL01	117065	8.22	246226	9.10	271430	11.87
VN0911WBS01	149250	8.22	261095	9.10	227203	11.87

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: CHEM02
 Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845
 Lab File ID: VN083791.D Date Analyzed: 09/11/2024
 Instrument ID: MSVOA_N Time Analyzed: 12:59
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	116418	13.794				
UPPER LIMIT	232836	14.294				
LOWER LIMIT	58209	13.294				
EPA SAMPLE NO.						
PT-VOA-WPDL	115304	13.79				
VN0911WBL01	129037	13.79				
VN0911WBS01	111791	13.79				

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-VOA-WP	SDG No.:	P3845
Lab Sample ID:	P3845-01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083755.D	1		09/10/24 16:31	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	34.7		0.34	1.00	ug/L
141-78-6	Ethyl Acetate	0.38	U	0.38	1.00	ug/L
108-21-4	Isopropyl Acetate	0.29	U	0.29	1.00	ug/L
74-83-9	Bromomethane	47.4		1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
109-99-9	Tetrahydrofuran	1.20	U	1.20	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-65-0	Tert butyl alcohol	5.60	U	5.60	25.0	ug/L
60-29-7	Diethyl Ether	0.20	U	0.20	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
107-02-8	Acrolein	6.70	U	6.70	25.0	ug/L
107-13-1	Acrylonitrile	0.90	U	0.90	5.00	ug/L
67-64-1	Acetone	41.1		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	74.2		0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	100	E	0.25	1.00	ug/L
108-05-4	Vinyl Acetate	0.71	U	0.71	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	90.7		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
594-20-7	2,2-Dichloropropane	0.31	U	0.31	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	21.1		0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	22.9		0.26	1.00	ug/L

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-VOA-WP	SDG No.:	P3845
Lab Sample ID:	P3845-01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083755.D	1		09/10/24 16:31	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
563-58-6	1,1-Dichloropropene	0.18	U	0.18	1.00	ug/L
71-43-2	Benzene	41.3		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	140	E	0.24	1.00	ug/L
79-01-6	Trichloroethene	57.8		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.9		0.19	1.00	ug/L
74-95-3	Dibromomethane	15.5		0.23	1.00	ug/L
75-27-4	Bromodichloromethane	93.4		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	100	E	0.18	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	110	E	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	110	E	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
142-28-9	1,3-Dichloropropane	0.17	U	0.17	1.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	1.80	U	1.80	5.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	31.2		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	40.8		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	46.9		0.13	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.00	ug/L
67-72-1	Hexachloroethane	0.29	UQ	0.29	1.00	ug/L
100-41-4	Ethyl Benzene	90.8		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	27.1		0.31	2.00	ug/L
1330-20-7	Total Xylenes	147		0.45	3.00	ug/L
95-47-6	o-Xylene	120	E	0.14	1.00	ug/L
100-42-5	Styrene	110	E	0.16	1.00	ug/L
75-25-2	Bromoform	78.8		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L

Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	09/03/24
Project:	NJ Waste Water PT			Date Received:	09/05/24
Client Sample ID:	PT-VOA-WP			SDG No.:	P3845
Lab Sample ID:	P3845-01			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:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083755.D	1		09/10/24 16:31	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
96-18-4	1,2,3-Trichloropropane	100	E	0.39	1.00	ug/L
108-86-1	Bromobenzene	0.26	U	0.26	1.00	ug/L
103-65-1	n-propylbenzene	0.14	U	0.14	1.00	ug/L
95-49-8	2-Chlorotoluene	0.16	U	0.16	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	30.9		0.18	1.00	ug/L
106-43-4	4-Chlorotoluene	0.18	U	0.18	1.00	ug/L
98-06-6	tert-Butylbenzene	0.17	U	0.17	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	15.8		0.18	1.00	ug/L
135-98-8	sec-Butylbenzene	0.17	U	0.17	1.00	ug/L
99-87-6	p-Isopropyltoluene	0.15	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	97.7	Q	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	40.2	Q	0.27	1.00	ug/L
104-51-8	n-Butylbenzene	0.22	U	0.22	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	14.0		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	130	E	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-68-3	Hexachlorobutadiene	0.31	U	0.31	1.00	ug/L
91-20-3	Naphthalene	74.8		0.59	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
628-63-7	N-amyl acetate	0.23	U	0.23	1.00	ug/L
74-88-4	Methyl Iodide	1.20	U	1.20	5.00	ug/L
107-05-1	Allyl chloride	0.24	U	0.24	1.00	ug/L
126-98-7	Methacrylonitrile	0.31	U	0.31	1.00	ug/L
97-63-2	Ethyl methacrylate	0.16	U	0.16	1.00	ug/L
108-20-3	Diisopropyl ether	0.16	U	0.16	1.00	ug/L
123-91-1	1,4-Dioxane	6.50	U	6.50	100	ug/L
80-62-6	Methyl methacrylate	0.32	U	0.32	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.1		74 - 125	96%	SPK: 50
1868-53-7	Dibromofluoromethane	45.7		75 - 124	91%	SPK: 50
2037-26-5	Toluene-d8	48.6		86 - 113	97%	SPK: 50

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-VOA-WP	SDG No.:	P3845
Lab Sample ID:	P3845-01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083755.D	1		09/10/24 16:31	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
460-00-4	4-Bromofluorobenzene	44.6		77 - 121	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	151000	8.224			
540-36-3	1,4-Difluorobenzene	262000	9.1			
3114-55-4	Chlorobenzene-d5	227000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	109000	13.788			

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_N\Data\VN091024\
 Data File : VN083755.D
 Acq On : 10 Sep 2024 16:31
 Operator : JC\MD
 Sample : P3845-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

Quant Time: Sep 11 03:15:36 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 02:47:22 2024
 Response via : Initial Calibration

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

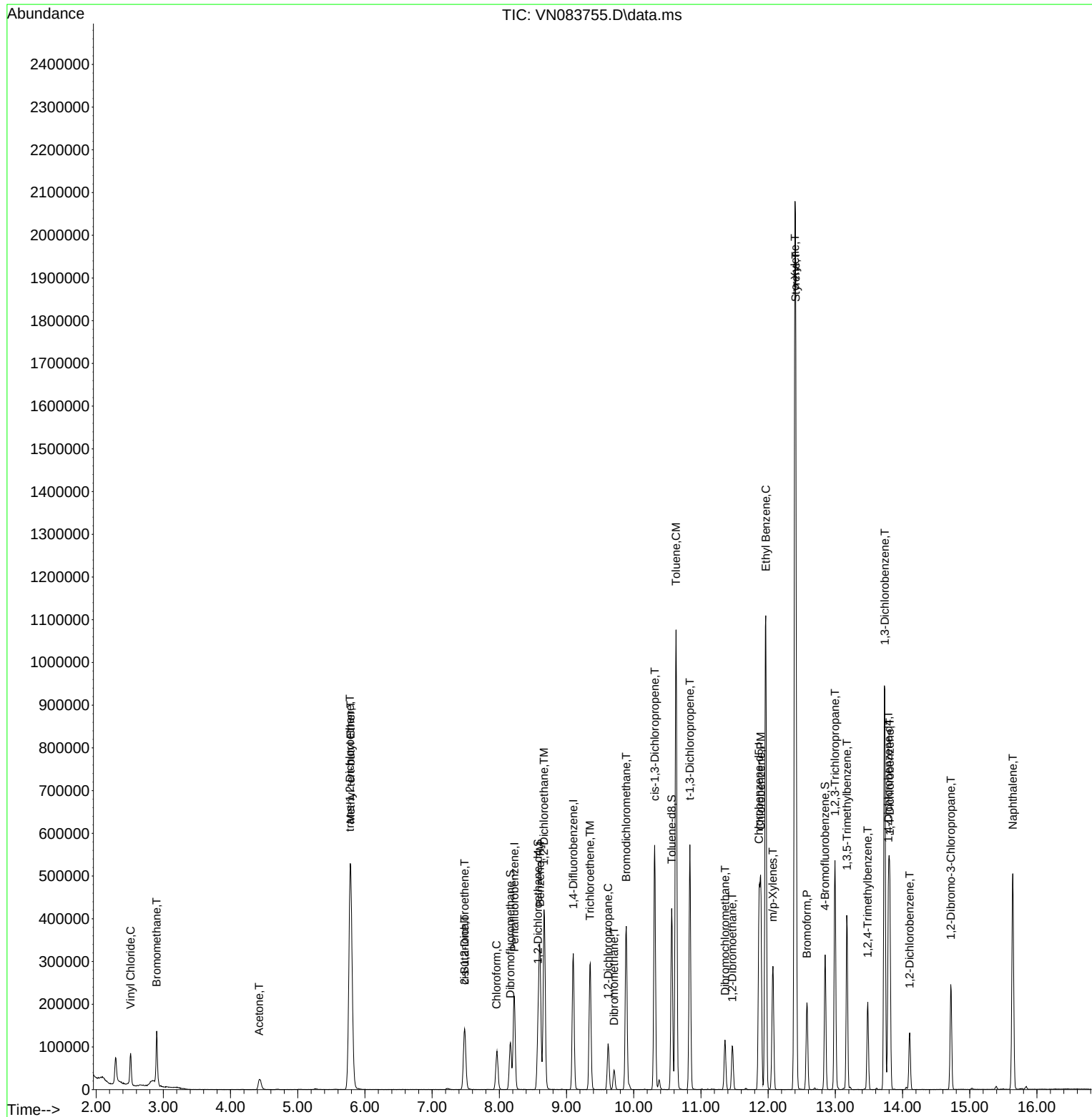
Internal Standards						
1) Pentafluorobenzene	8.224	168	150997	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	261805	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	226980	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	109081	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	109513	48.099	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.200%		
35) Dibromofluoromethane	8.165	113	76624	45.717	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.440%		
50) Toluene-d8	10.565	98	281694	48.617	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.240%		
62) 4-Bromofluorobenzene	12.847	95	106649	44.613	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	89.220%		
Target Compounds						Qvalue
4) Vinyl Chloride	2.512	62	66608	34.654	ug/l	93
5) Bromomethane	2.901	94	52315	47.405	ug/l	96
16) Acetone	4.424	43	37510	41.097	ug/l	92
19) Methyl tert-butyl Ether	5.789	73	438713	74.233	ug/l	100
21) trans-1,2-Dichloroethene	5.777	96	178621	102.053	ug/l	92
25) 2-Butanone	7.483	43	108831	90.721	ug/l	96
27) cis-1,2-Dichloroethene	7.483	96	43853	21.106	ug/l	90
30) Chloroform	7.959	83	83841	22.882	ug/l	92
40) Benzene	8.606	78	313354	41.269	ug/l	99
42) 1,2-Dichloroethane	8.665	62	398133	140.325	ug/l	100
44) Trichloroethene	9.347	130	101604	57.784	ug/l	97
45) 1,2-Dichloropropane	9.618	63	38320	20.881	ug/l	93
46) Dibromomethane	9.706	93	19897	15.479	ug/l	98
47) Bromodichloromethane	9.888	83	259885	93.420	ug/l	99
52) Toluene	10.630	92	466878	100.525	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	300615	106.609	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	318425	107.504	ug/l	99
60) Dibromochloromethane	11.359	129	60591	31.225	ug/l	99
61) 1,2-Dibromoethane	11.465	107	70615	40.836	ug/l	99
65) Chlorobenzene	11.888	112	236345	46.850	ug/l	99
67) Ethyl Benzene	11.965	91	813446	90.770	ug/l	100
68) m/p-Xylenes	12.071	106	90078	27.074	ug/l	98
69) o-Xylene	12.400	106	371425	115.317	ug/l	98
70) Styrene	12.412	104	572589	108.322	ug/l	98
71) Bromoform	12.576	173	92838	78.777	ug/l #	99
76) 1,2,3-Trichloropropane	12.994	75	218806	101.926	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.171	105	220170	30.944	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	113196	15.838	ug/l	100
87) 1,3-Dichlorobenzene	13.735	146	374737	97.746	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	156135	40.221	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	51710	13.976	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	65548	132.611	ug/l	98
95) Naphthalene	15.641	128	451724	74.782	ug/l	99

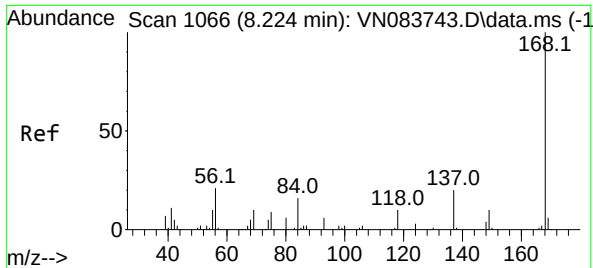
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083755.D
Acq On : 10 Sep 2024 16:31
Operator : JC\MD
Sample : P3845-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

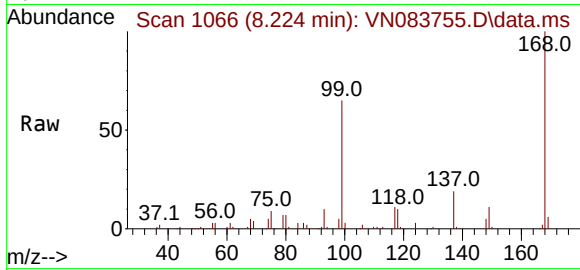
Quant Time: Sep 11 03:15:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration



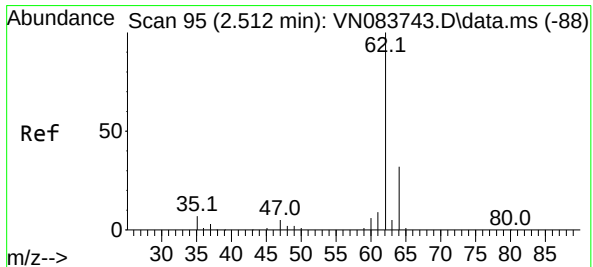
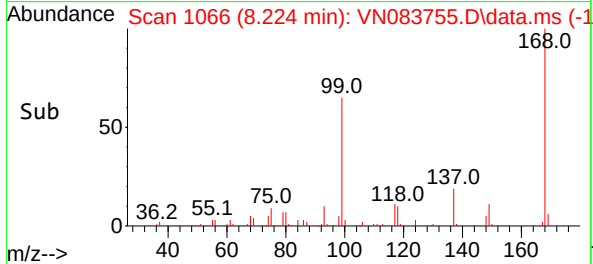
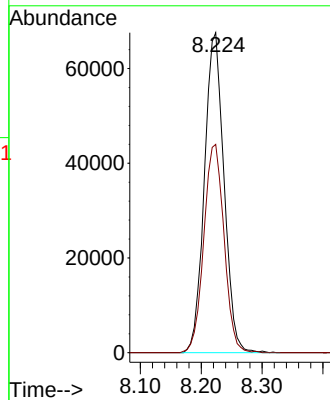


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

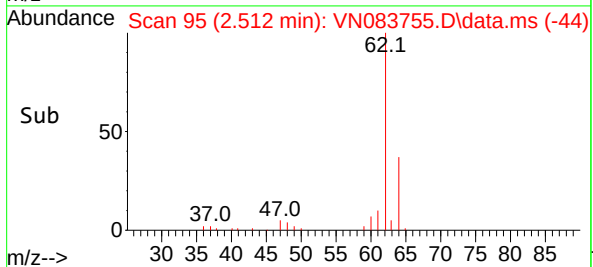
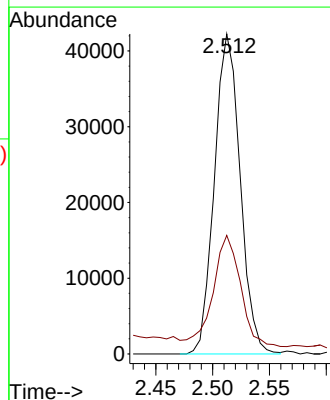
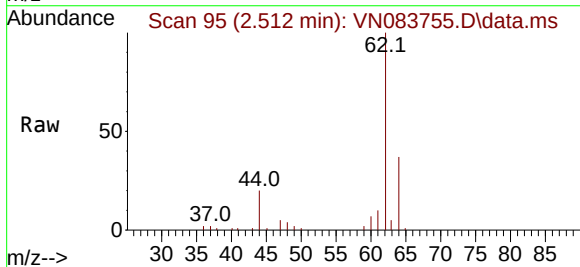


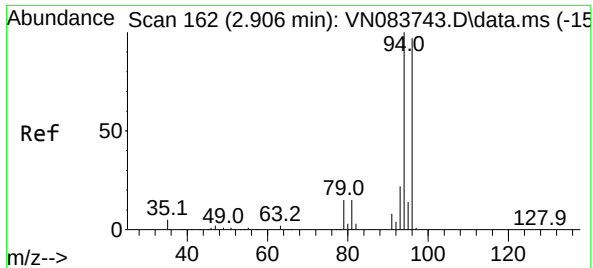
Tgt Ion:168 Resp: 150997
Ion Ratio Lower Upper
168 100
99 65.1 54.2 81.2



#4
Vinyl Chloride
Concen: 34.654 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion: 62 Resp: 66608
Ion Ratio Lower Upper
62 100
64 34.7 24.7 37.1

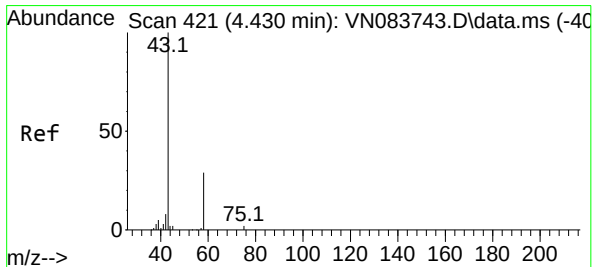
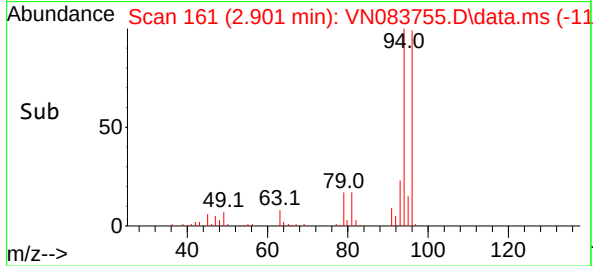
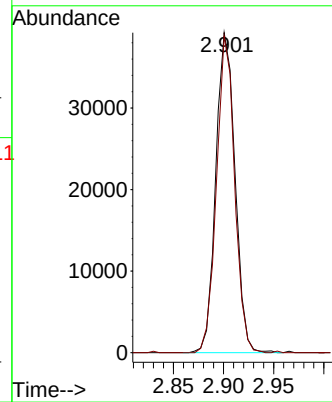
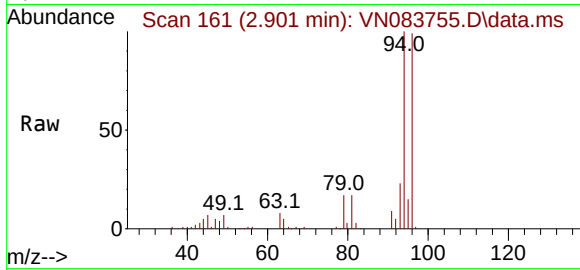




#5
Bromomethane
Concen: 47.405 ug/l
RT: 2.901 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

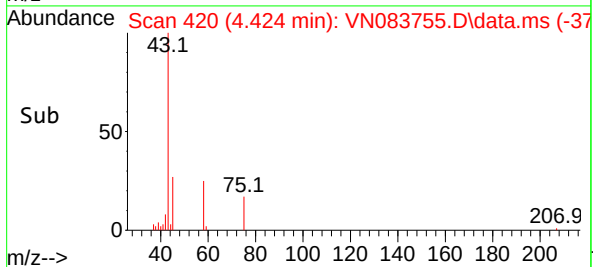
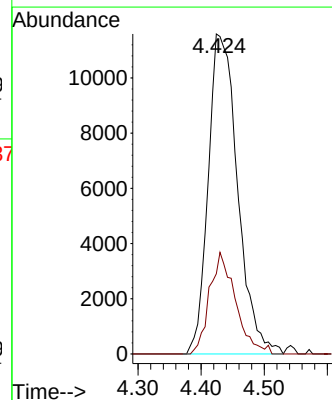
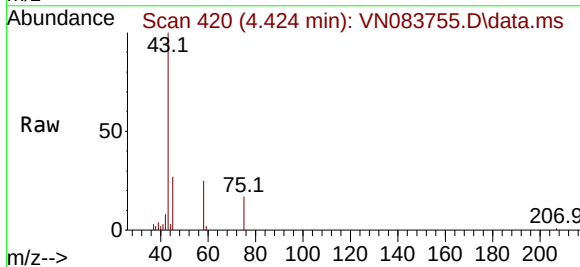
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

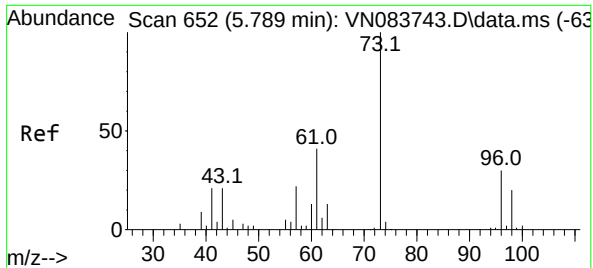
Tgt Ion: 94 Resp: 52315
Ion Ratio Lower Upper
94 100
96 99.0 76.0 114.0



#16
Acetone
Concen: 41.097 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion: 43 Resp: 37510
Ion Ratio Lower Upper
43 100
58 25.0 23.7 35.5





#19

Methyl tert-butyl Ether

Concen: 74.233 ug/l

RT: 5.789 min Scan# 61

Delta R.T. 0.000 min

Lab File: VN083755.D

Acq: 10 Sep 2024 16:31

Instrument :

MSVOA_N

ClientSampleId :

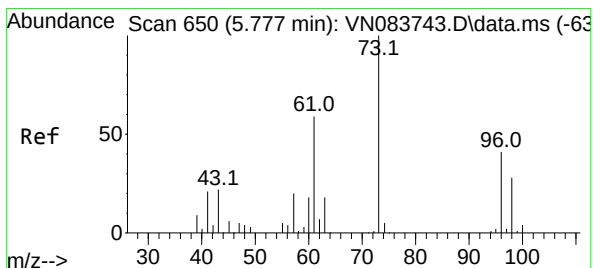
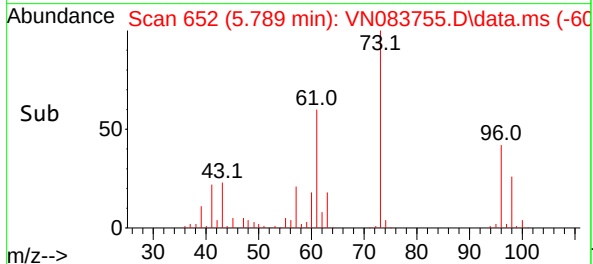
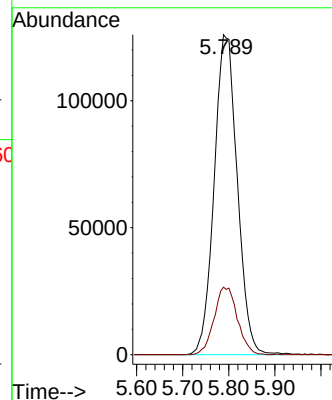
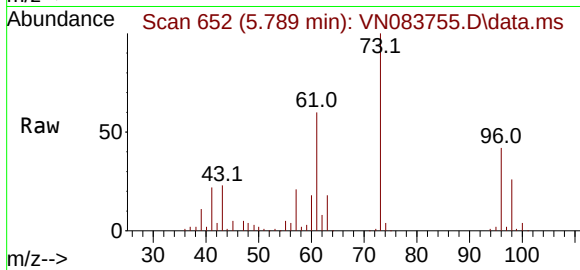
PT-VOA-WP

Tgt Ion: 73 Resp: 438713

Ion Ratio Lower Upper

73 100

57 21.1 17.0 25.6



#21

trans-1,2-Dichloroethene

Concen: 102.053 ug/l

RT: 5.777 min Scan# 650

Delta R.T. 0.000 min

Lab File: VN083755.D

Acq: 10 Sep 2024 16:31

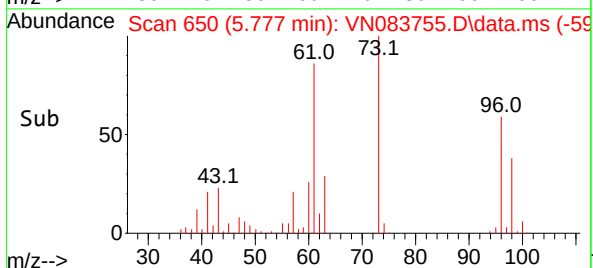
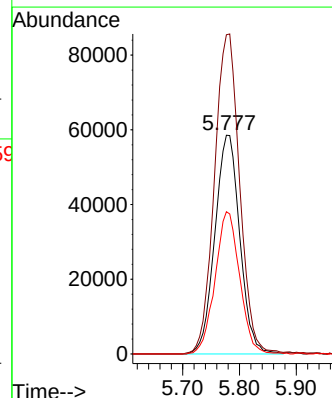
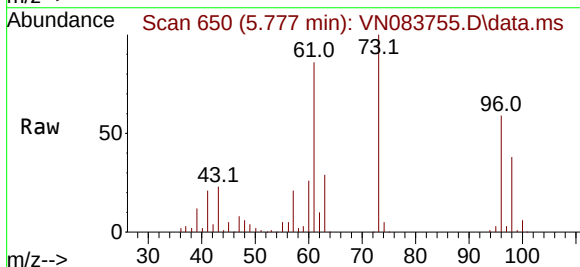
Tgt Ion: 96 Resp: 178621

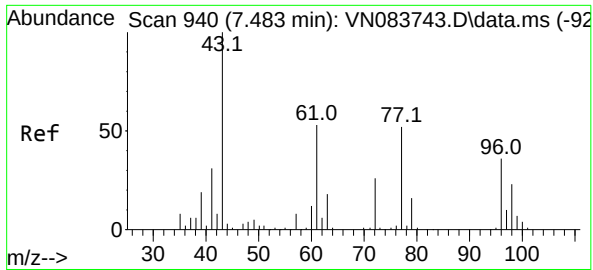
Ion Ratio Lower Upper

96 100

61 145.9 106.0 159.0

98 65.0 52.2 78.2

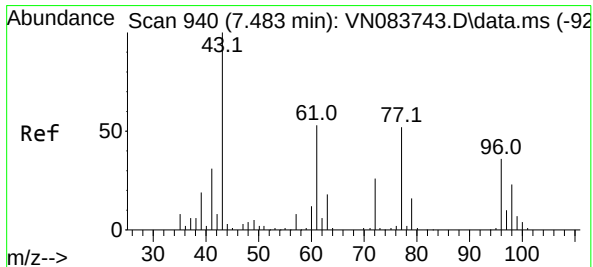
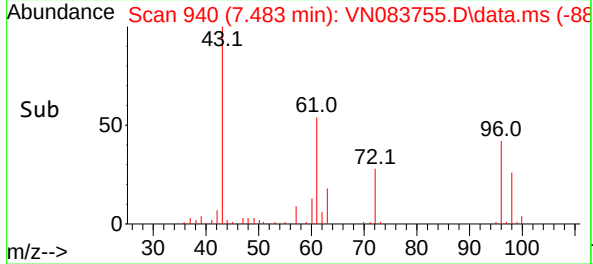
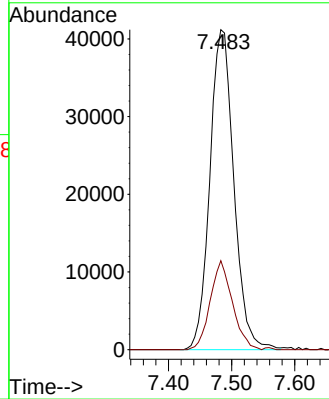
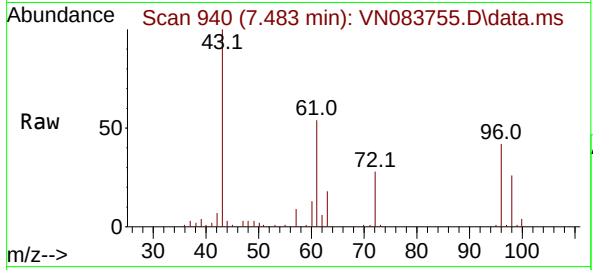




#25
2-Butanone
Concen: 90.721 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

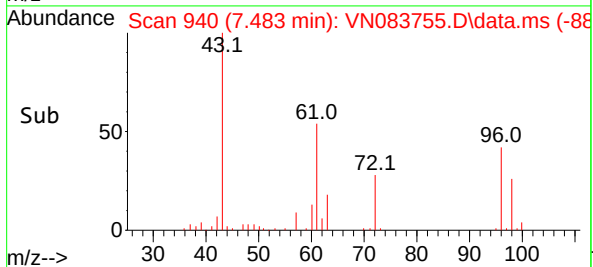
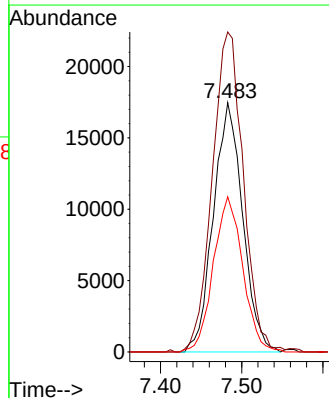
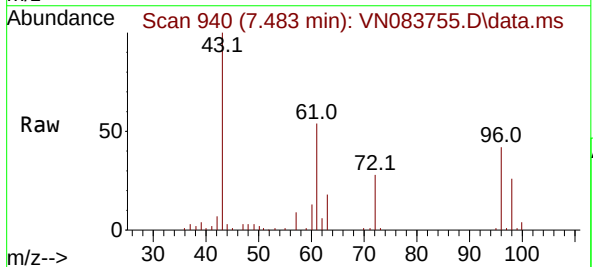
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

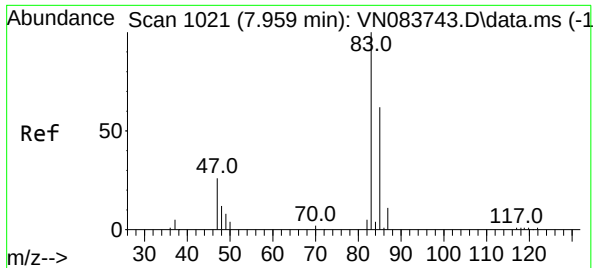
Tgt Ion: 43 Resp: 108831
Ion Ratio Lower Upper
43 100
72 27.8 20.8 31.2



#27
cis-1,2-Dichloroethene
Concen: 21.106 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion: 96 Resp: 43853
Ion Ratio Lower Upper
96 100
61 136.0 0.0 306.2
98 62.5 0.0 128.6





#30

Chloroform

Concen: 22.882 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN083755.D

Acq: 10 Sep 2024 16:31

Instrument :

MSVOA_N

ClientSampleId :

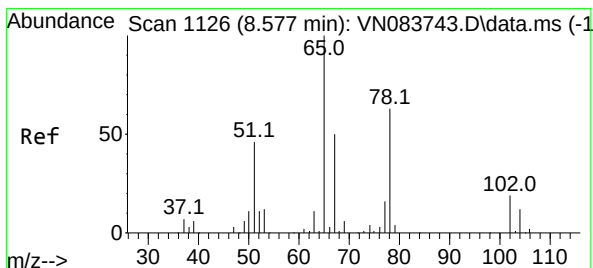
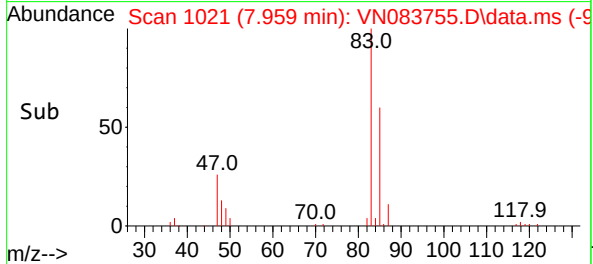
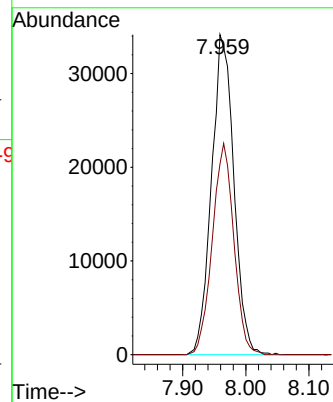
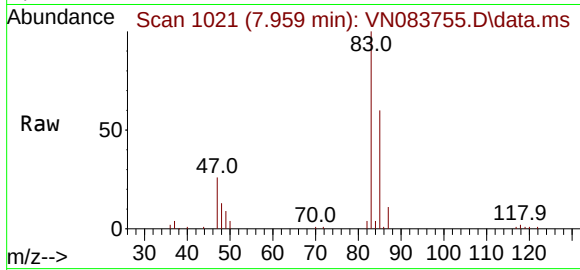
PT-VOA-WP

Tgt Ion: 83 Resp: 83841

Ion Ratio Lower Upper

83 100

85 59.6 52.8 79.2



#33

1,2-Dichloroethane-d4

Concen: 48.099 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN083755.D

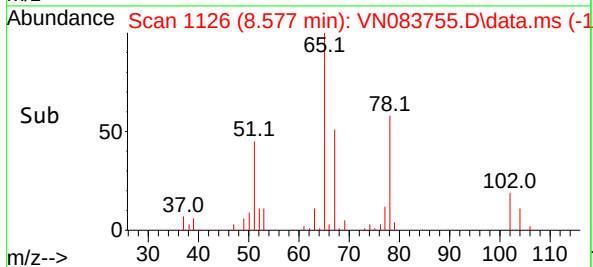
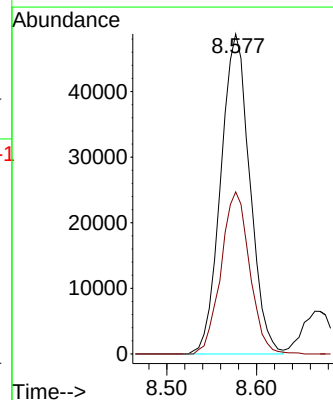
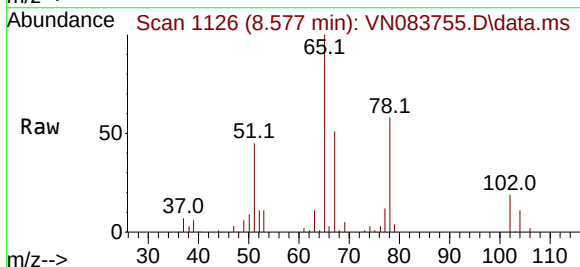
Acq: 10 Sep 2024 16:31

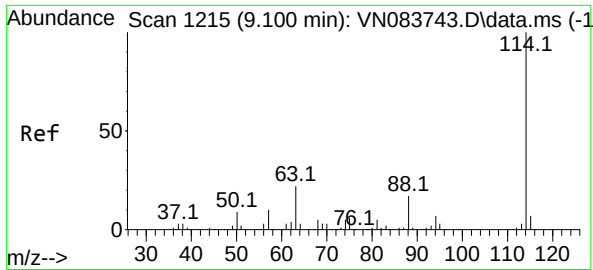
Tgt Ion: 65 Resp: 109513

Ion Ratio Lower Upper

65 100

67 49.8 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083755.D

Acq: 10 Sep 2024 16:31

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WP

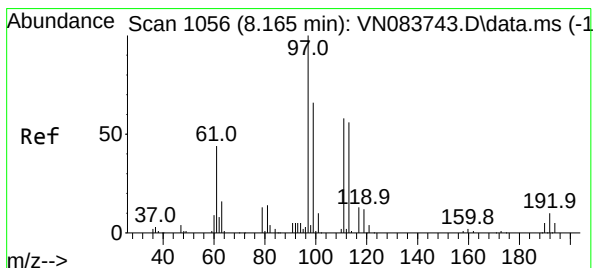
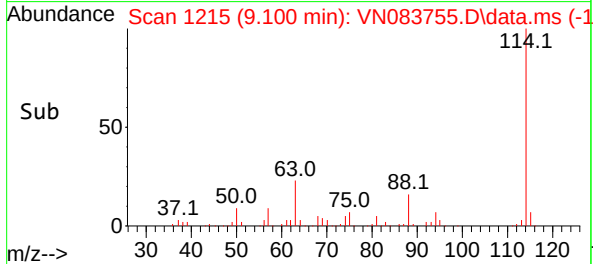
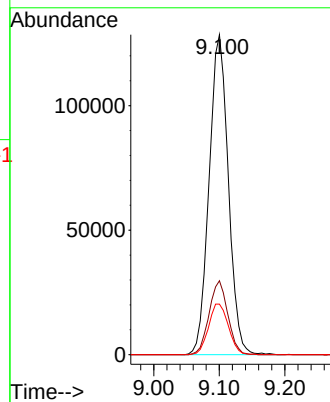
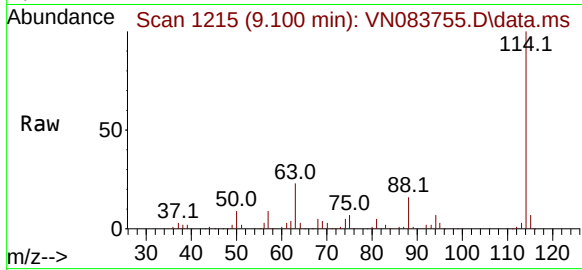
Tgt Ion:114 Resp: 261805

Ion Ratio Lower Upper

114 100

63 23.1 0.0 43.4

88 15.8 0.0 32.6



#35

Dibromofluoromethane

Concen: 45.717 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083755.D

Acq: 10 Sep 2024 16:31

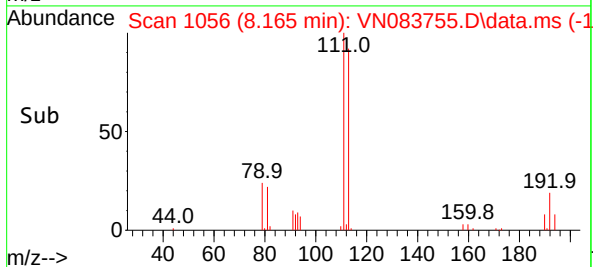
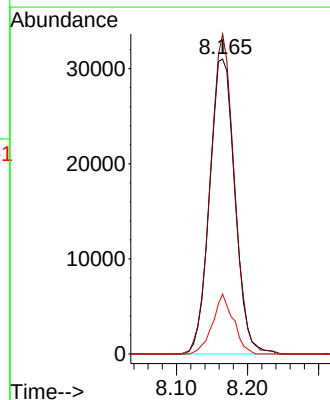
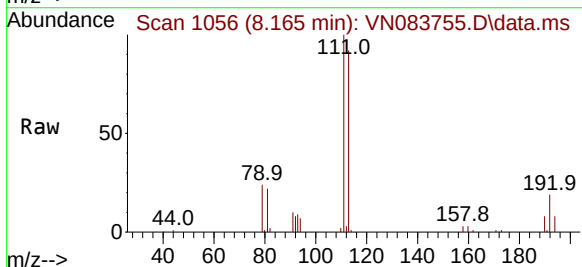
Tgt Ion:113 Resp: 76624

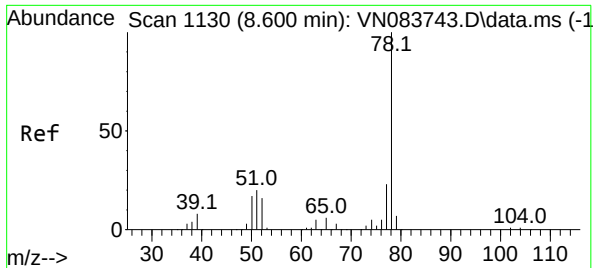
Ion Ratio Lower Upper

113 100

111 103.5 82.6 124.0

192 16.8 14.3 21.5

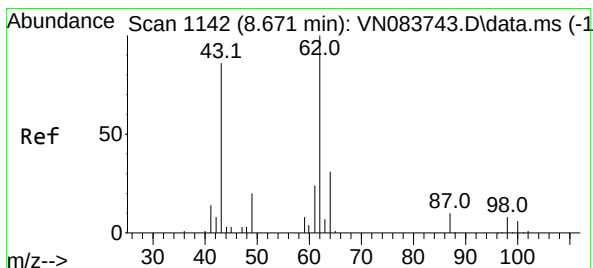
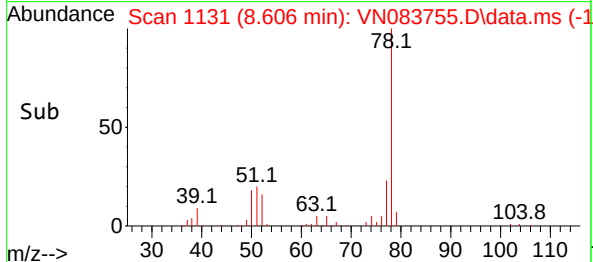
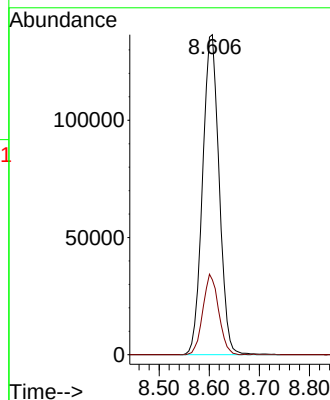
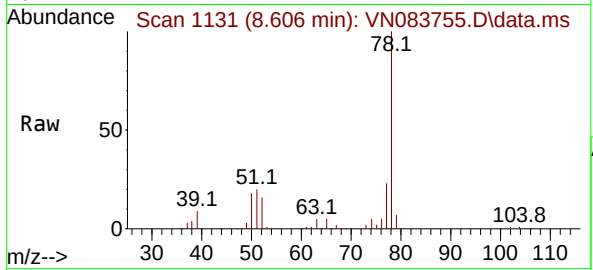




#40
Benzene
Concen: 41.269 ug/l
RT: 8.606 min Scan# 1130
Delta R.T. 0.006 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

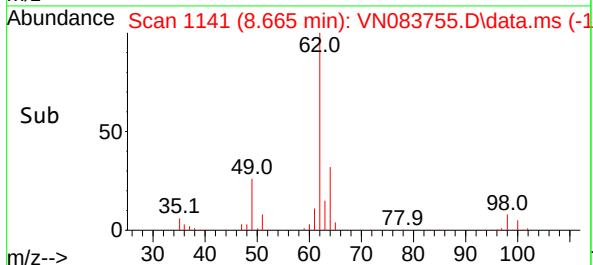
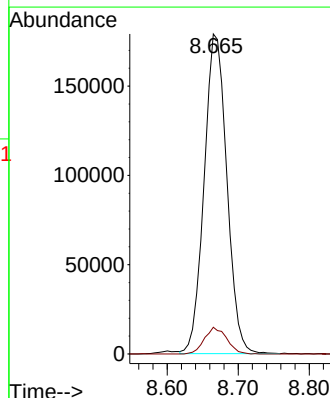
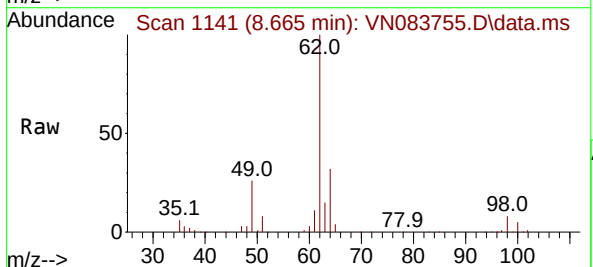
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

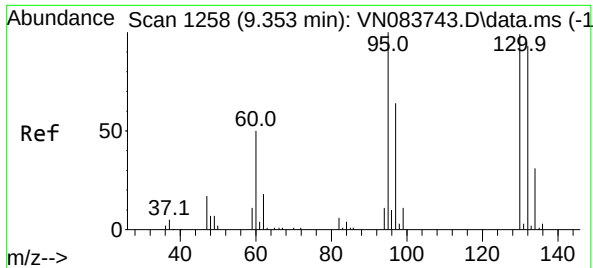
Tgt Ion: 78 Resp: 313354
Ion Ratio Lower Upper
78 100
77 23.4 19.0 28.6



#42
1,2-Dichloroethane
Concen: 140.325 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.006 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion: 62 Resp: 398133
Ion Ratio Lower Upper
62 100
98 8.2 0.0 16.6





#44

Trichloroethene

Concen: 57.784 ug/l

RT: 9.347 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN083755.D

Acq: 10 Sep 2024 16:31

Instrument :

MSVOA_N

ClientSampleId :

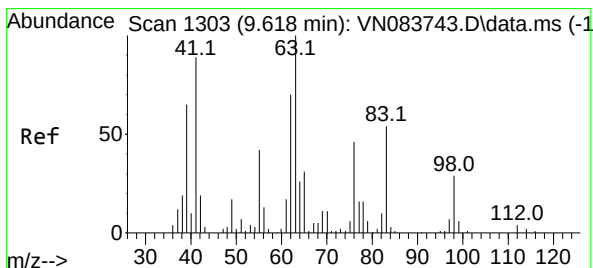
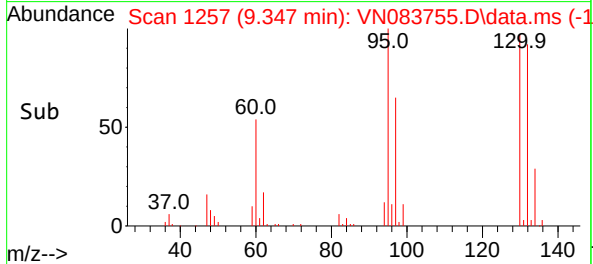
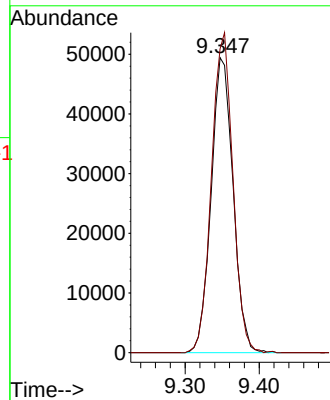
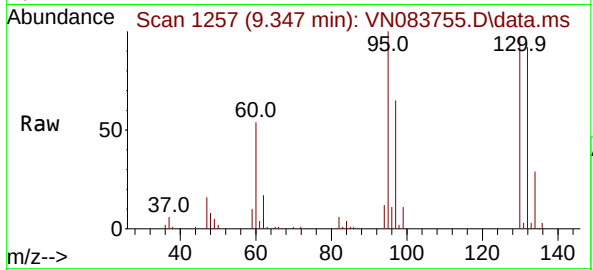
PT-VOA-WP

Tgt Ion:130 Resp: 101604

Ion Ratio Lower Upper

130 100

95 102.9 0.0 200.4



#45

1,2-Dichloropropane

Concen: 20.881 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN083755.D

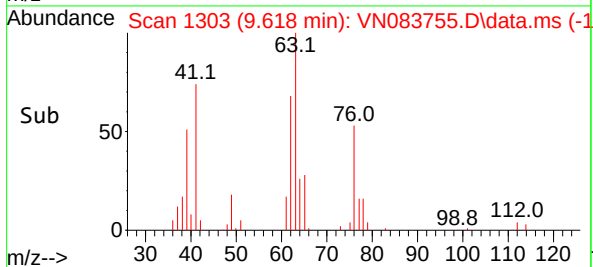
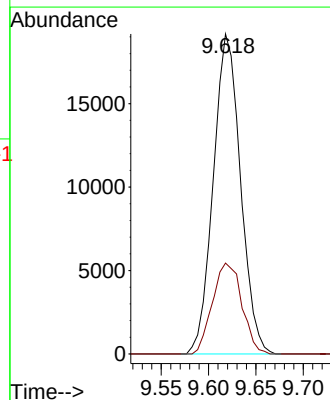
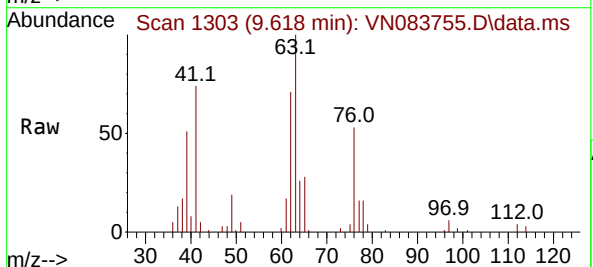
Acq: 10 Sep 2024 16:31

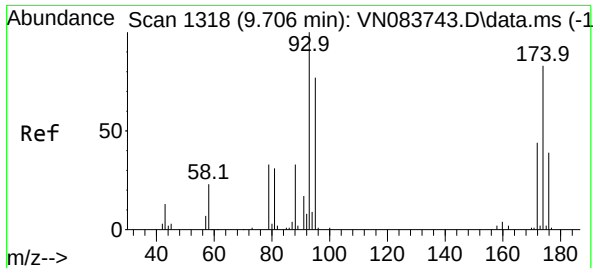
Tgt Ion: 63 Resp: 38320

Ion Ratio Lower Upper

63 100

65 28.4 25.9 38.9

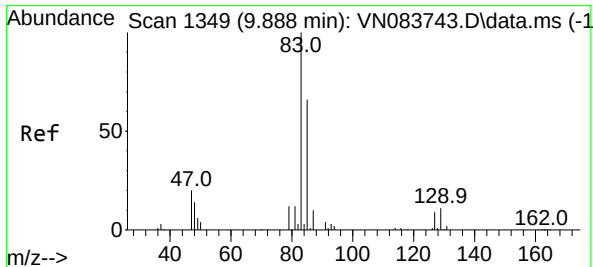
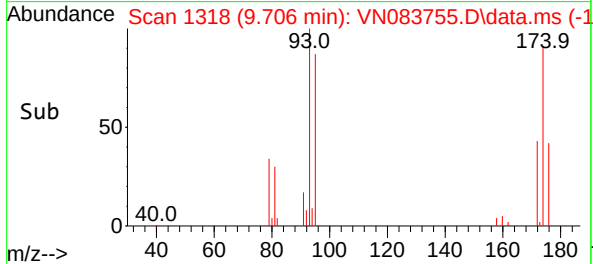
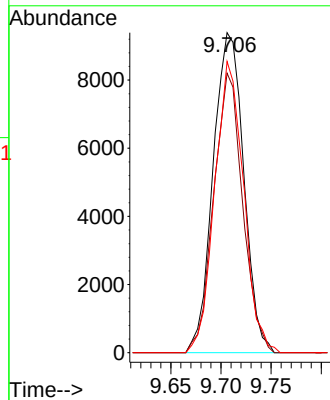
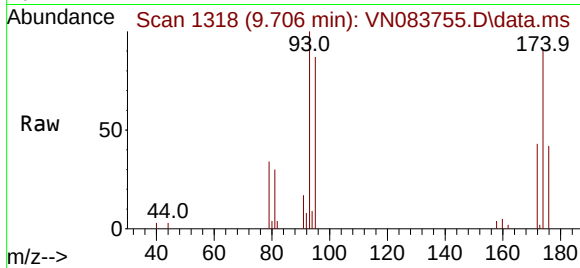




#46
Dibromomethane
Concen: 15.479 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

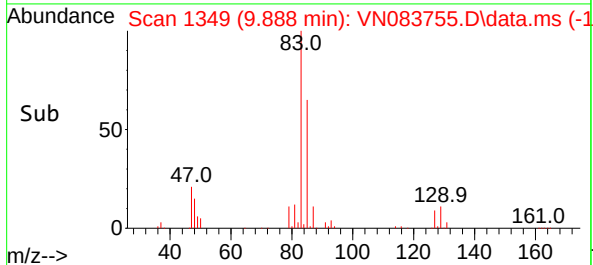
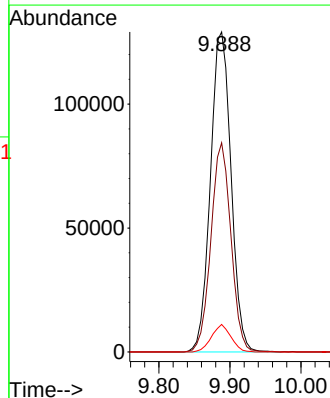
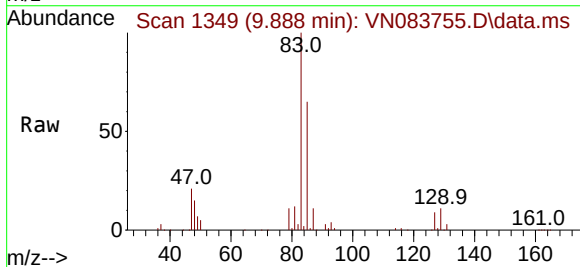
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

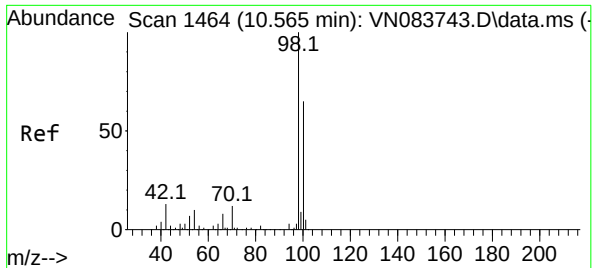
Tgt Ion: 93 Resp: 19897
Ion Ratio Lower Upper
93 100
95 82.6 65.3 97.9
174 85.9 71.0 106.4



#47
Bromodichloromethane
Concen: 93.420 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion: 83 Resp: 259885
Ion Ratio Lower Upper
83 100
85 65.3 51.8 77.8
127 8.6 6.6 9.8

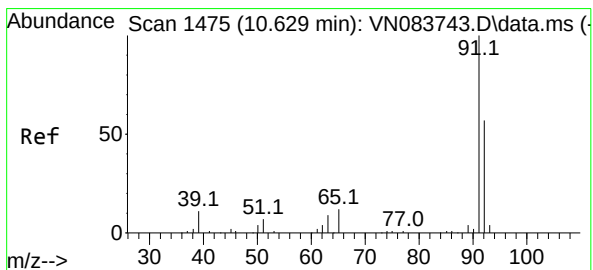
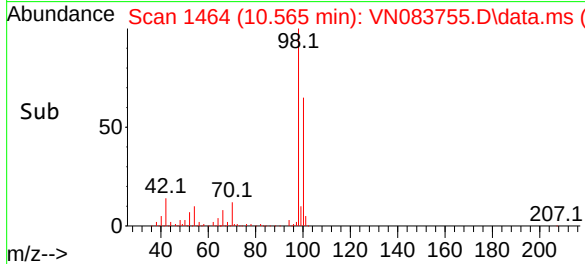
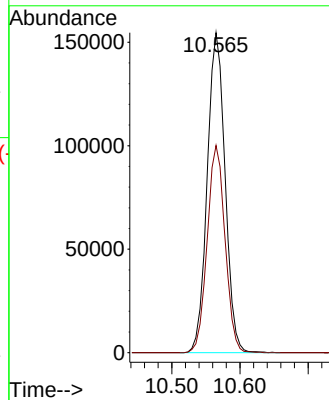
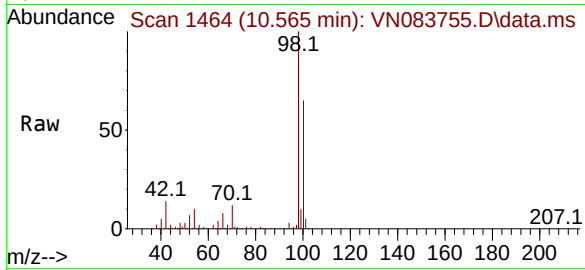




#50
Toluene-d8
Concen: 48.617 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

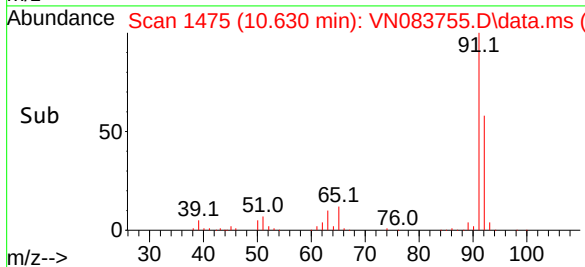
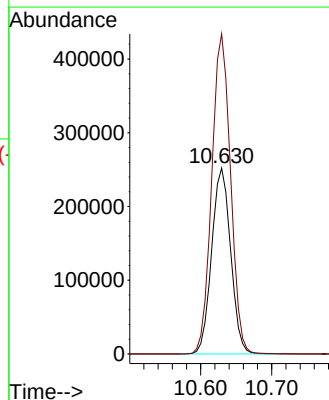
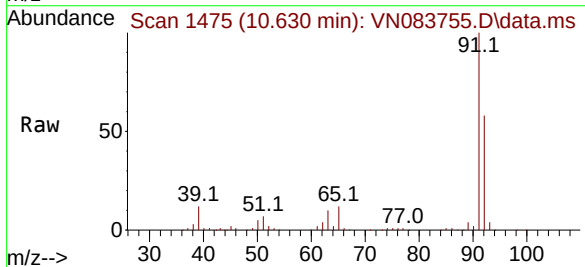
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

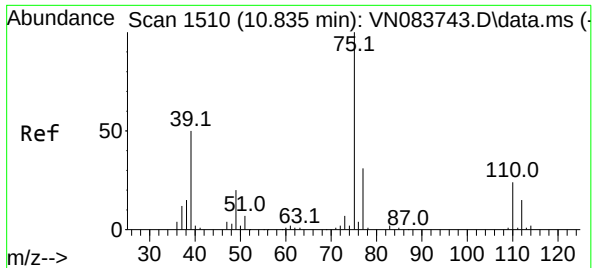
Tgt Ion: 98 Resp: 281694
Ion Ratio Lower Upper
98 100
100 64.7 52.0 78.0



#52
Toluene
Concen: 100.525 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion: 92 Resp: 466878
Ion Ratio Lower Upper
92 100
91 170.8 134.7 202.1

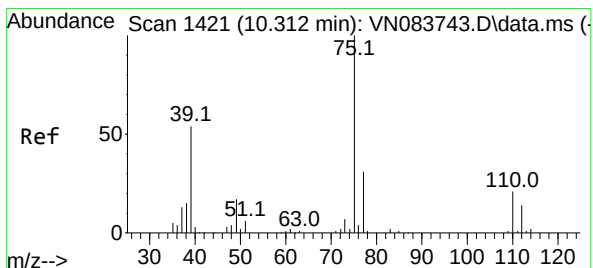
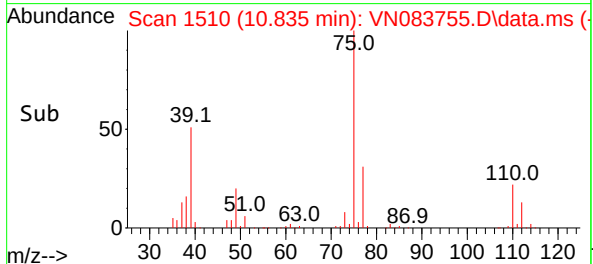
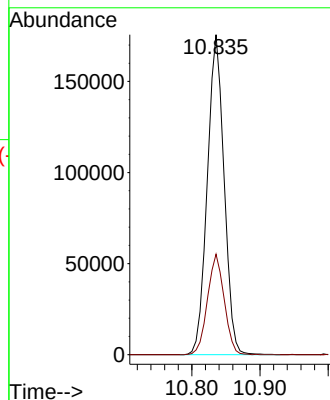
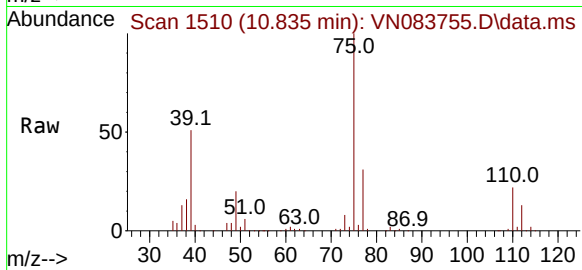




#53
t-1,3-Dichloropropene
Concen: 106.609 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

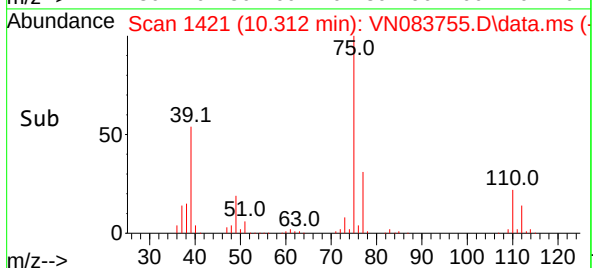
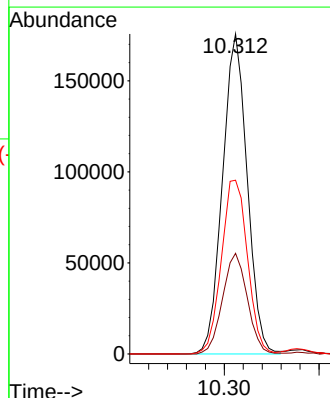
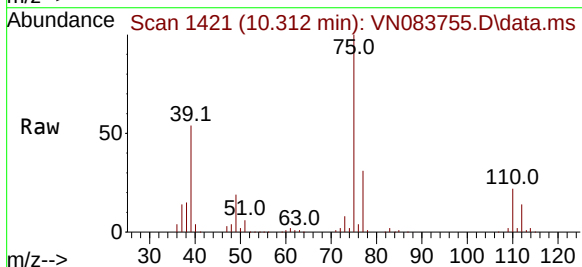
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

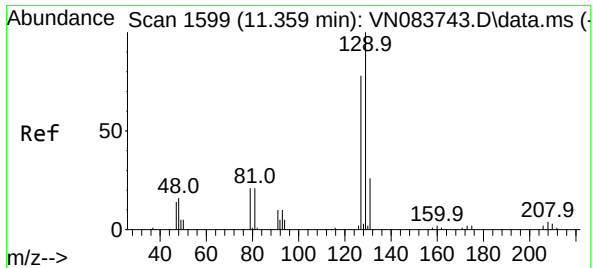
Tgt Ion: 75 Resp: 300615
Ion Ratio Lower Upper
75 100
77 31.4 25.8 38.6



#54
cis-1,3-Dichloropropene
Concen: 107.504 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion: 75 Resp: 318425
Ion Ratio Lower Upper
75 100
77 31.5 25.0 37.6
39 54.3 42.6 64.0

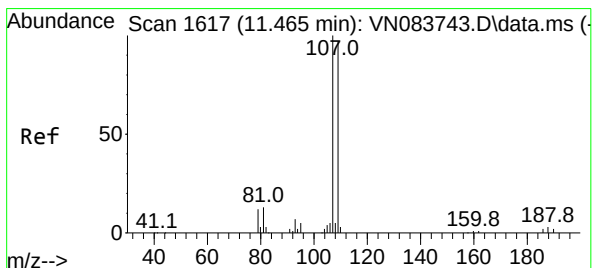
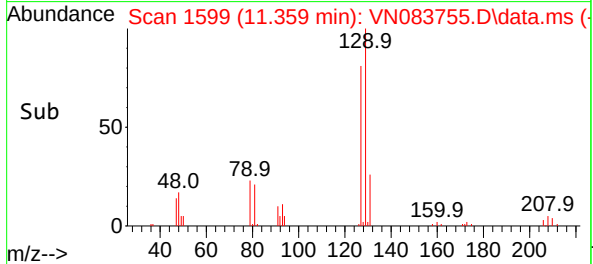
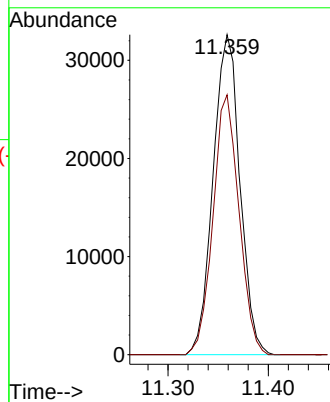
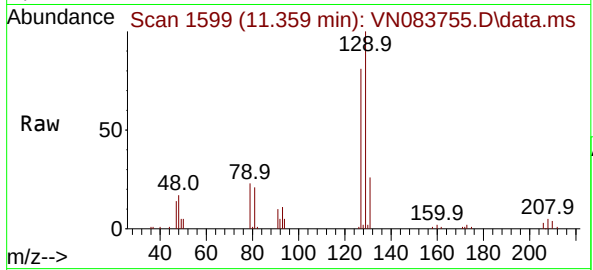




#60
Dibromochloromethane
Concen: 31.225 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

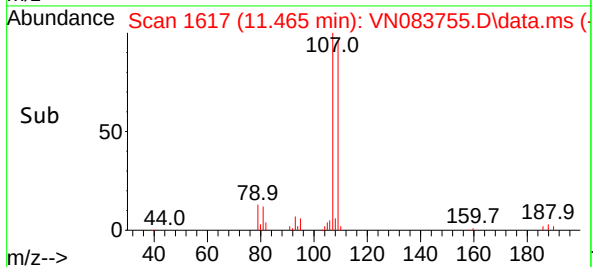
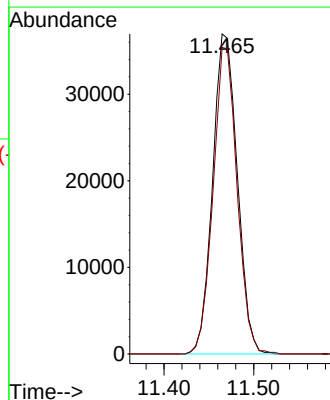
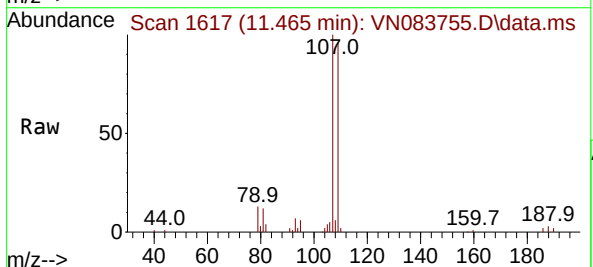
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

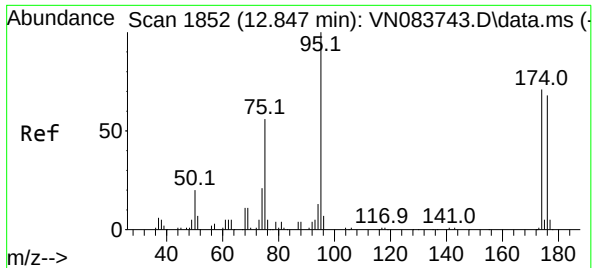
Tgt Ion:129 Resp: 60591
Ion Ratio Lower Upper
129 100
127 78.6 39.0 116.9



#61
1,2-Dibromoethane
Concen: 40.836 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion:107 Resp: 70615
Ion Ratio Lower Upper
107 100
109 93.3 75.6 113.4

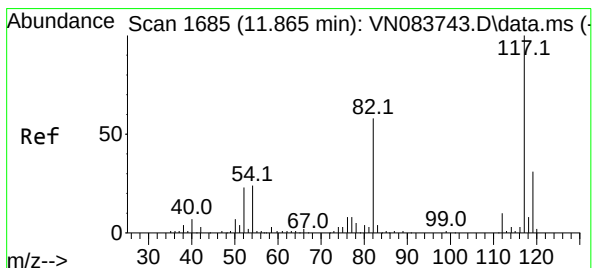
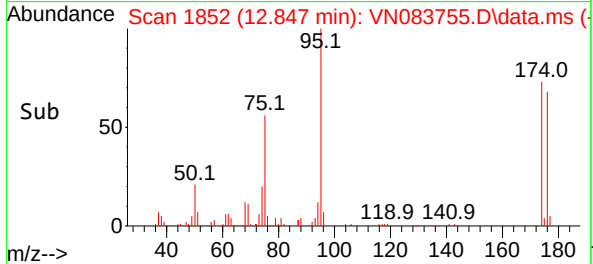
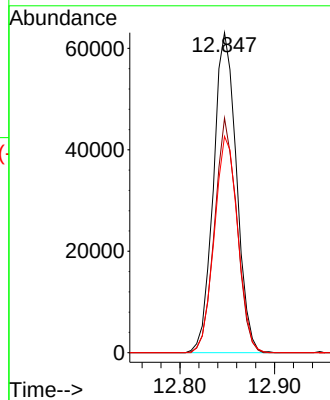
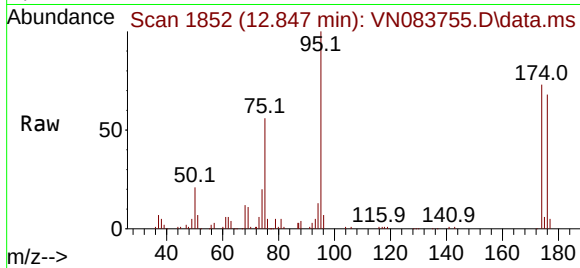




#62
4-Bromofluorobenzene
Concen: 44.613 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

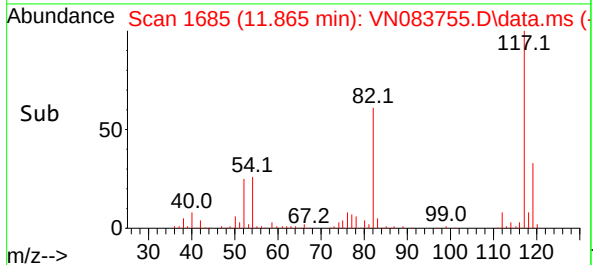
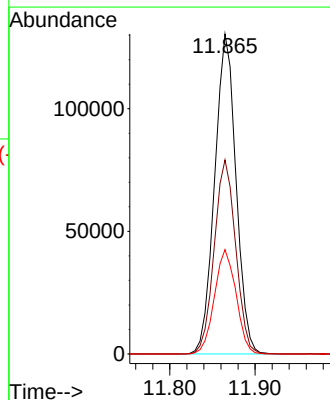
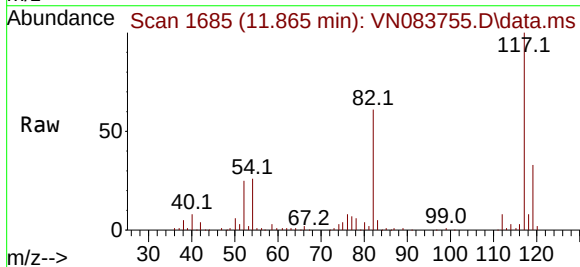
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

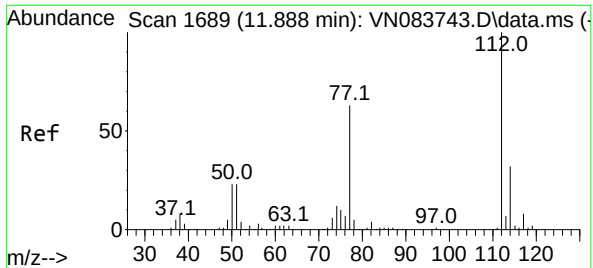
Tgt Ion: 95 Resp: 106649
Ion Ratio Lower Upper
95 100
174 70.6 0.0 139.8
176 68.9 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion: 117 Resp: 226980
Ion Ratio Lower Upper
117 100
82 60.7 47.4 71.0
119 32.6 26.3 39.5

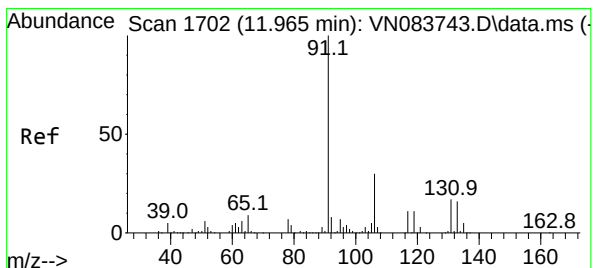
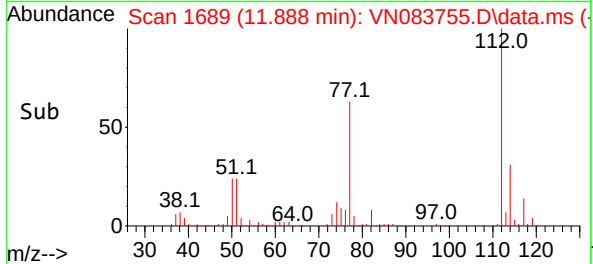
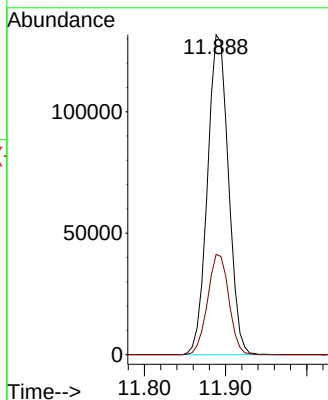
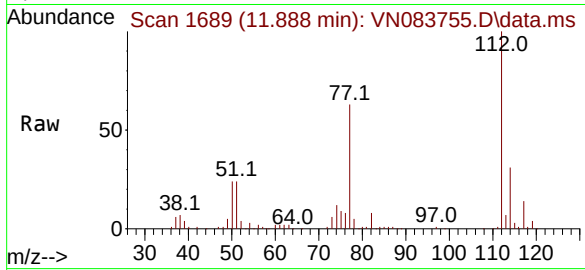




#65
Chlorobenzene
Concen: 46.850 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

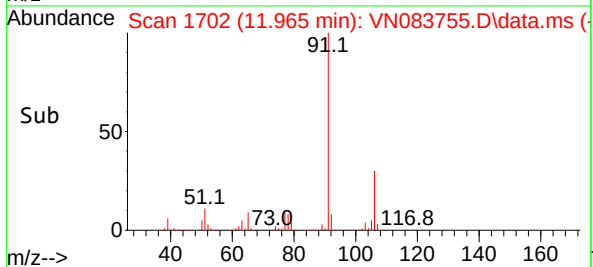
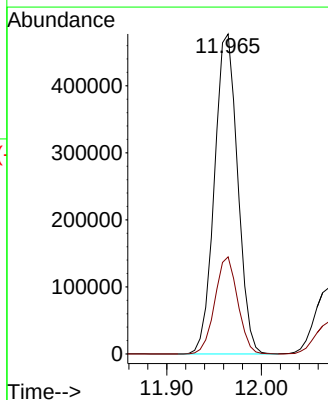
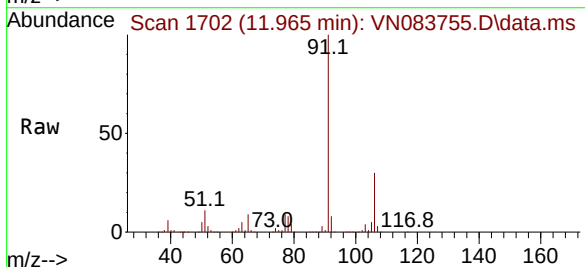
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

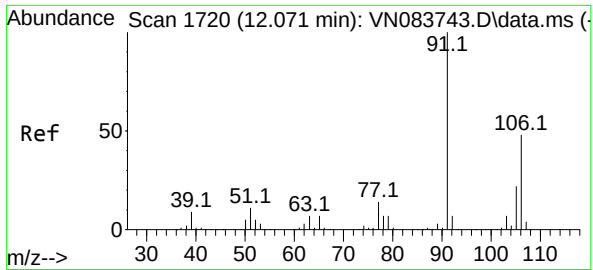
Tgt Ion:112 Resp: 236345
Ion Ratio Lower Upper
112 100
114 31.3 25.7 38.5



#67
Ethyl Benzene
Concen: 90.770 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion: 91 Resp: 813446
Ion Ratio Lower Upper
91 100
106 30.4 24.3 36.5

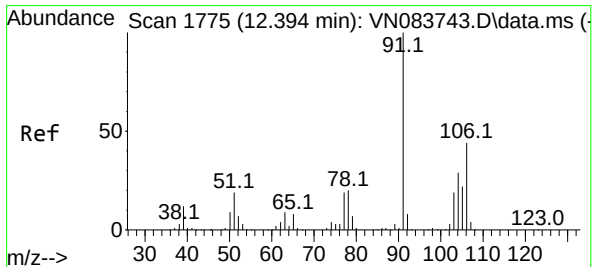
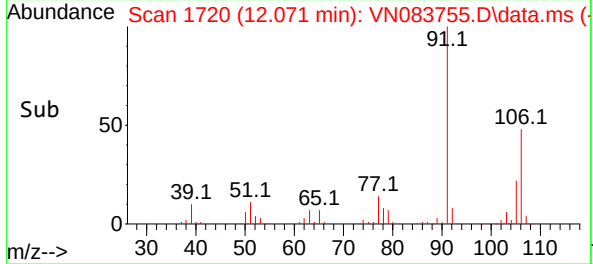
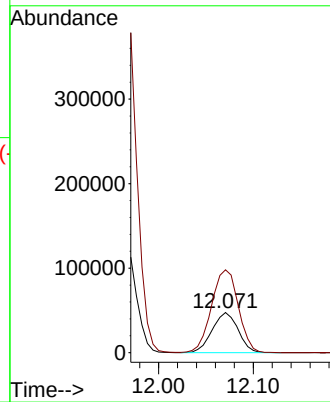
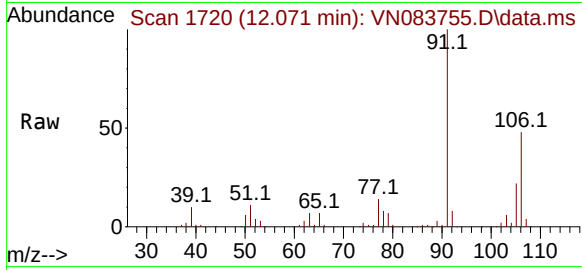




#68
m/p-Xylenes
Concen: 27.074 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

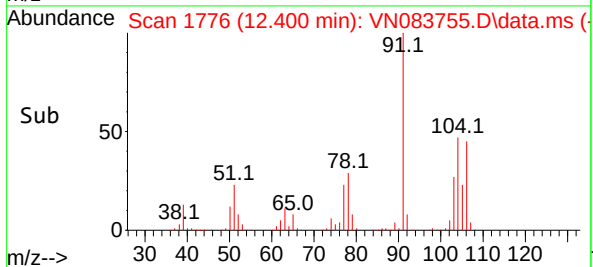
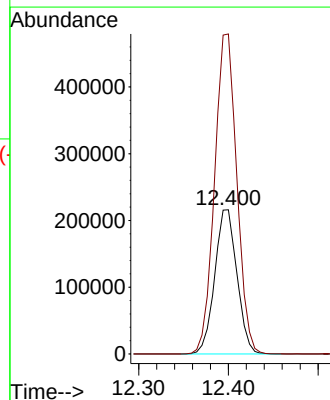
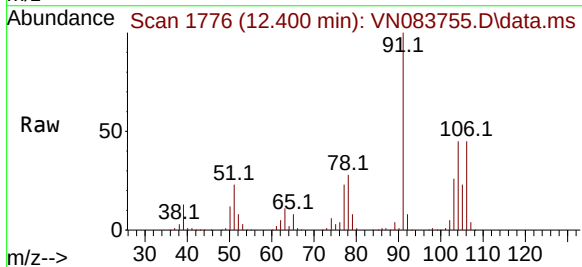
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

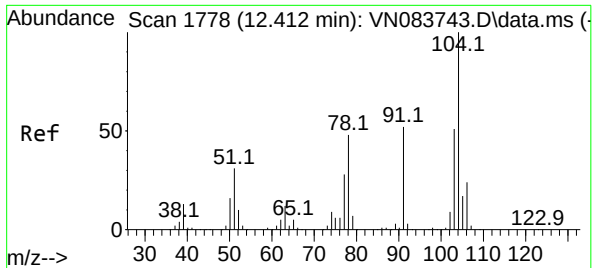
Tgt Ion:106 Resp: 90078
Ion Ratio Lower Upper
106 100
91 214.3 169.2 253.8



#69
o-Xylene
Concen: 115.317 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.006 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion:106 Resp: 371425
Ion Ratio Lower Upper
106 100
91 222.3 112.9 338.6

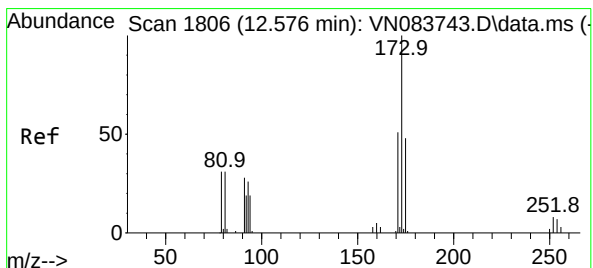
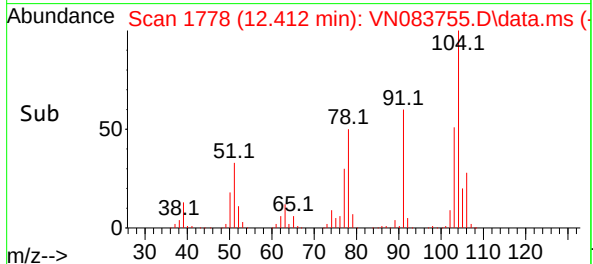
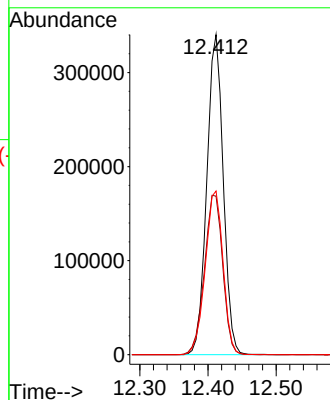
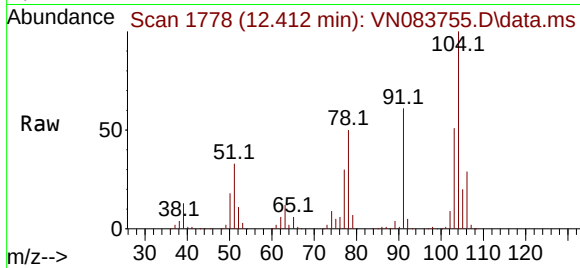




#70
Styrene
Concen: 108.322 ug/l
RT: 12.412 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

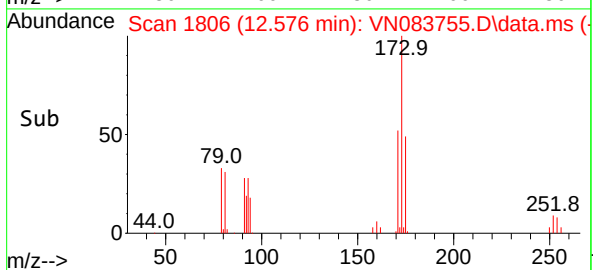
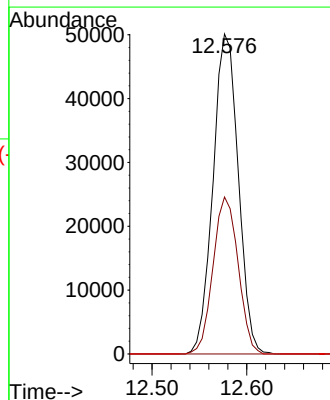
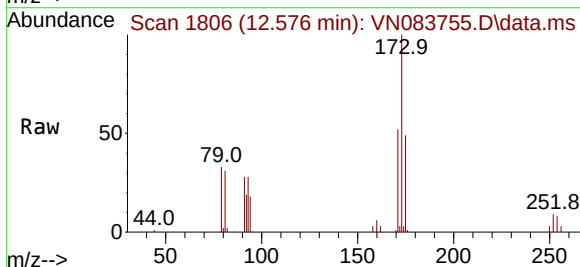
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

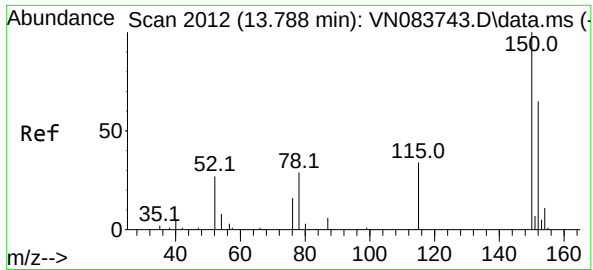
Tgt Ion:104 Resp: 572589
Ion Ratio Lower Upper
104 100
78 55.5 43.3 64.9
103 55.4 43.4 65.2



#71
Bromoform
Concen: 78.777 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion:173 Resp: 92838
Ion Ratio Lower Upper
173 100
175 48.6 24.1 72.2
254 0.0 0.0 0.0

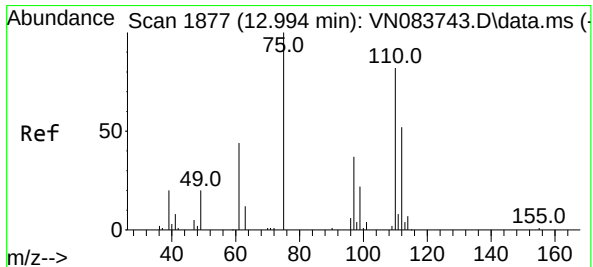
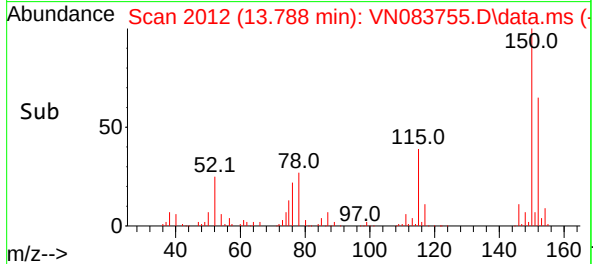
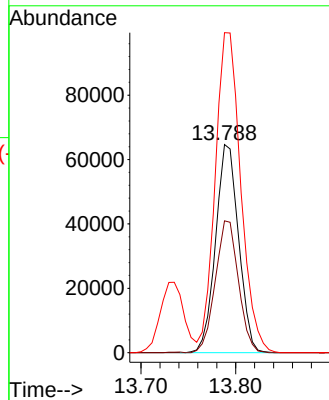
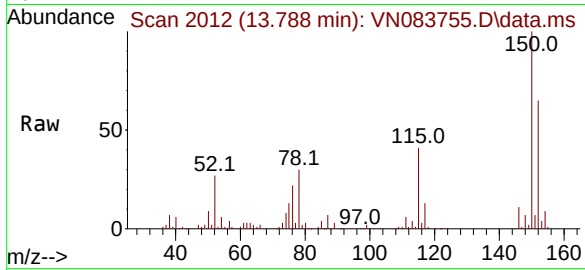




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. 0.000 min
 Lab File: VN083755.D
 Acq: 10 Sep 2024 16:31

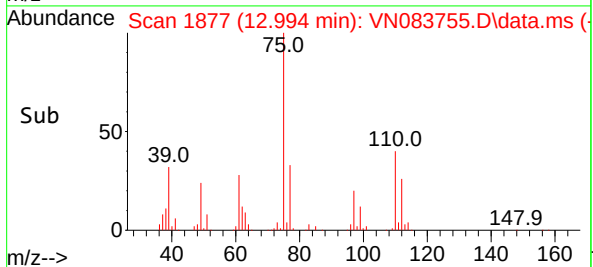
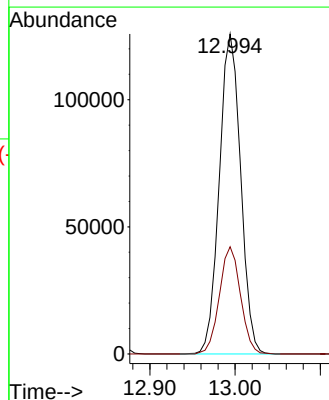
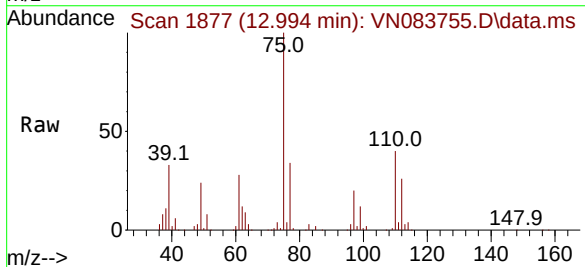
Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

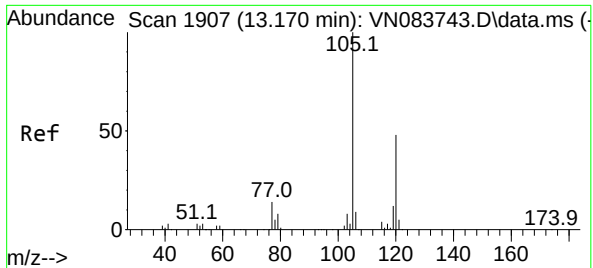
Tgt Ion:152 Resp: 109081
 Ion Ratio Lower Upper
 152 100
 115 63.7 32.2 96.6
 150 170.7 0.0 348.6



#76
 1,2,3-Trichloropropane
 Concen: 101.926 ug/l
 RT: 12.994 min Scan# 1877
 Delta R.T. 0.000 min
 Lab File: VN083755.D
 Acq: 10 Sep 2024 16:31

Tgt Ion: 75 Resp: 218806
 Ion Ratio Lower Upper
 75 100
 77 33.1 95.2 285.6#

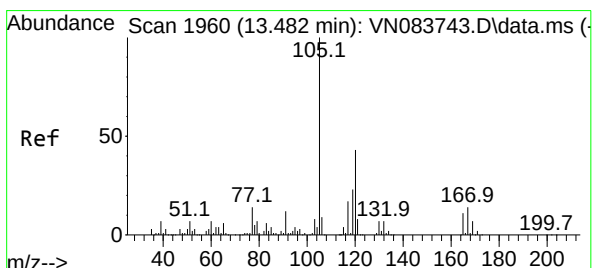
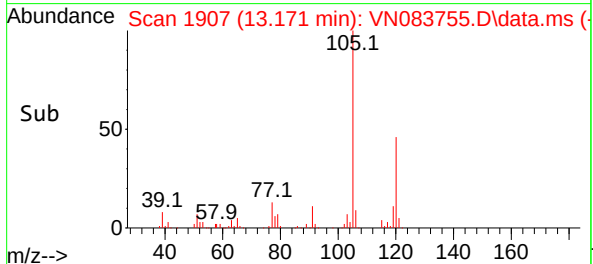
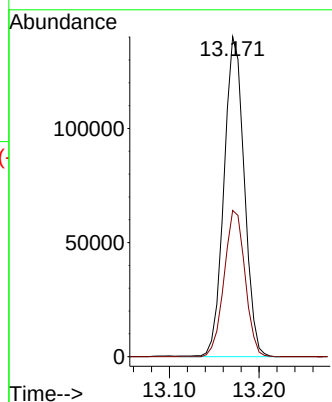
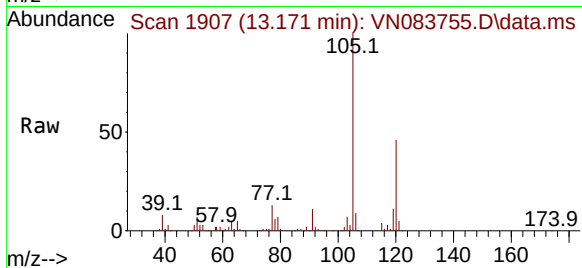




#80
1,3,5-Trimethylbenzene
Concen: 30.944 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

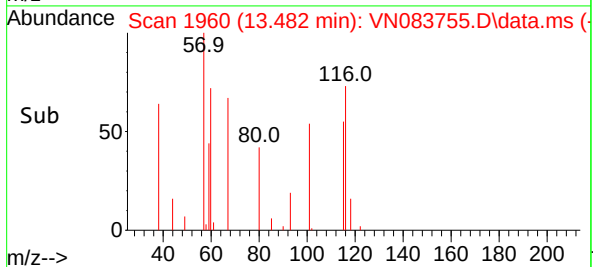
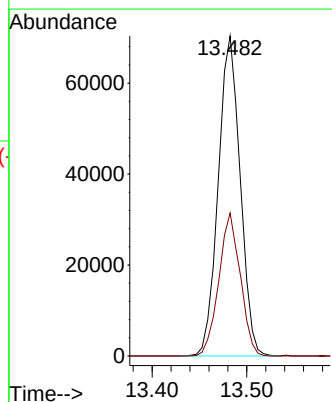
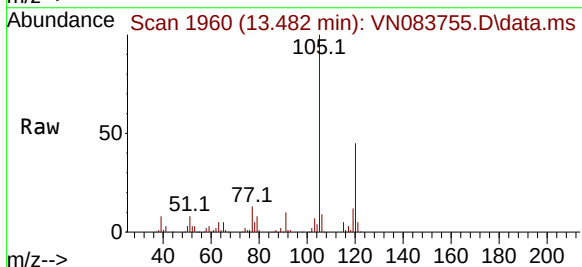
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

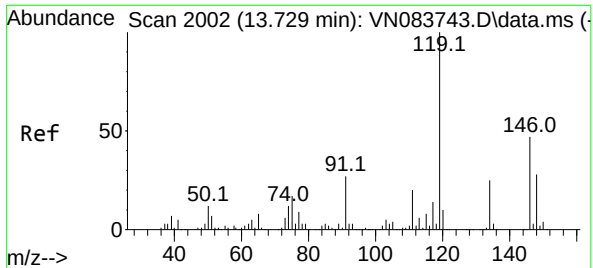
Tgt Ion:105 Resp: 220170
Ion Ratio Lower Upper
105 100
120 47.1 23.4 70.3



#84
1,2,4-Trimethylbenzene
Concen: 15.838 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion:105 Resp: 113196
Ion Ratio Lower Upper
105 100
120 43.7 21.8 65.4





#87

1,3-Dichlorobenzene

Concen: 97.746 ug/l

RT: 13.735 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN083755.D

Acq: 10 Sep 2024 16:31

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WP

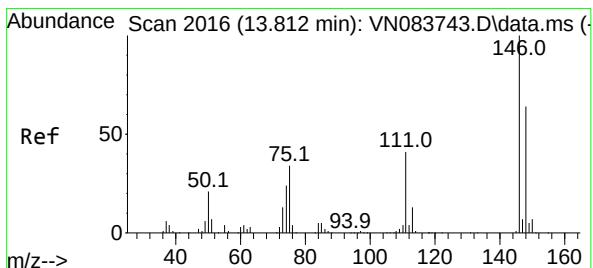
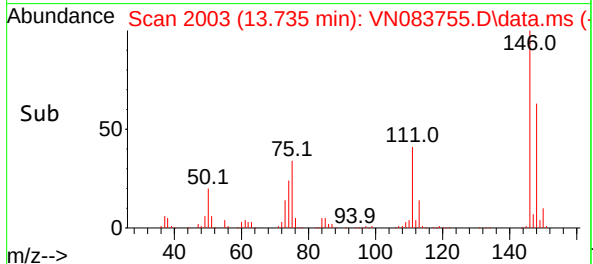
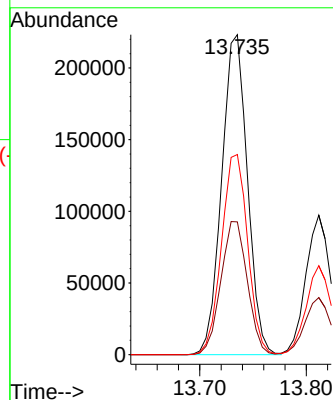
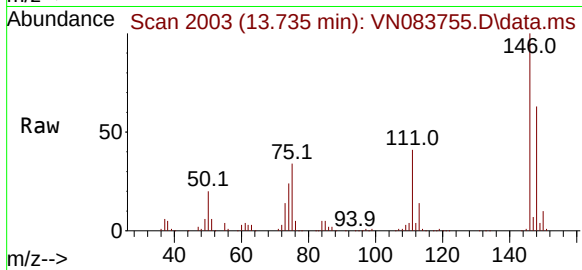
Tgt Ion:146 Resp: 374737

Ion Ratio Lower Upper

146 100

111 42.7 21.7 65.1

148 63.6 31.7 95.1



#88

1,4-Dichlorobenzene

Concen: 40.221 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN083755.D

Acq: 10 Sep 2024 16:31

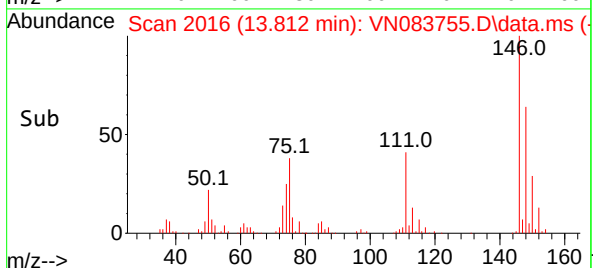
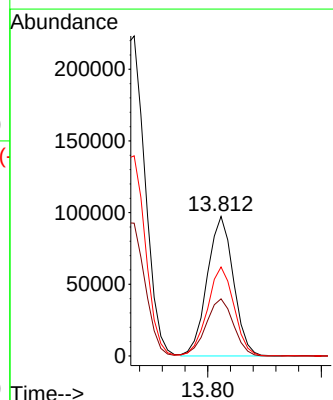
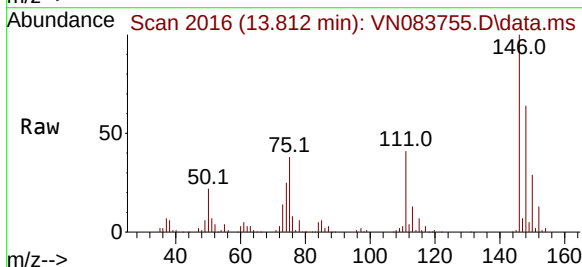
Tgt Ion:146 Resp: 156135

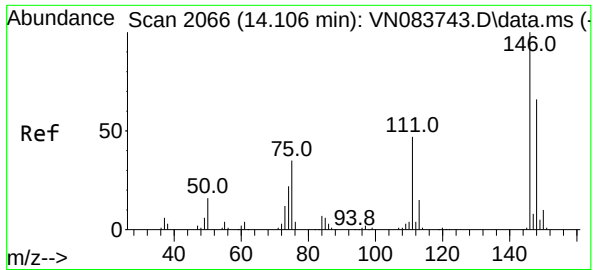
Ion Ratio Lower Upper

146 100

111 42.7 21.3 64.0

148 64.4 32.0 96.2

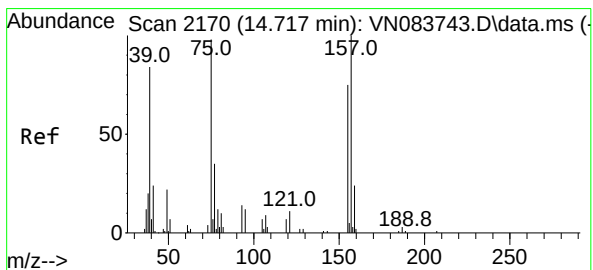
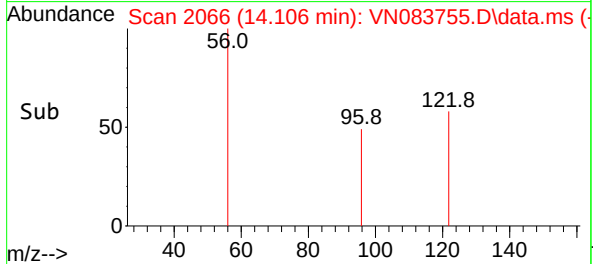
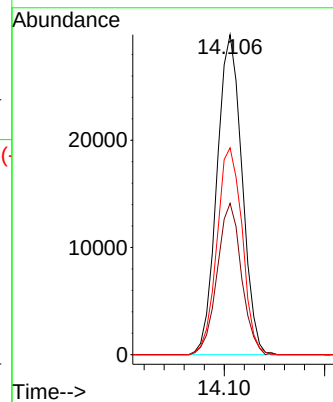
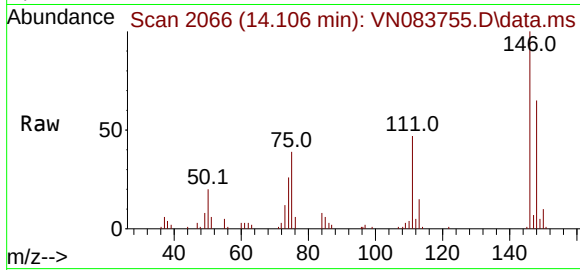




#91
1,2-Dichlorobenzene
Concen: 13.976 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

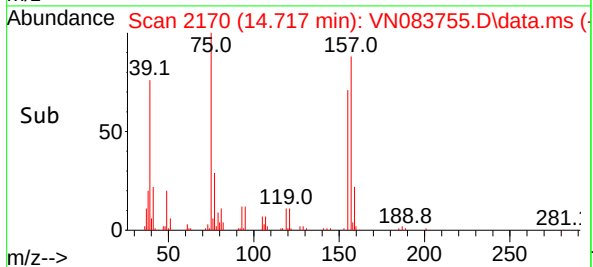
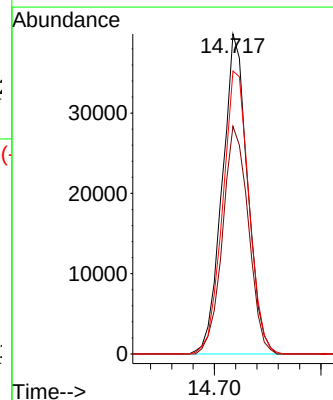
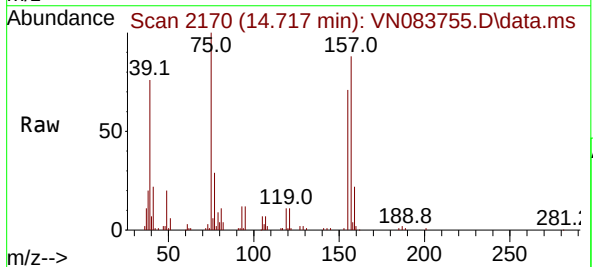
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

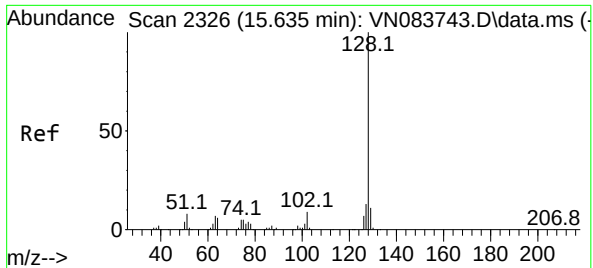
Tgt Ion:	146	Resp:	51710
Ion Ratio	Lower	Upper	
146	100		
111	46.0	22.8	68.3
148	65.0	32.1	96.5



#92
1,2-Dibromo-3-Chloropropane
Concen: 132.611 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion:	75	Resp:	65548
Ion Ratio	Lower	Upper	
75	100		
155	72.6	35.9	107.7
157	91.6	47.5	142.5





#95

Naphthalene

Concen: 74.782 ug/l

RT: 15.641 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN083755.D

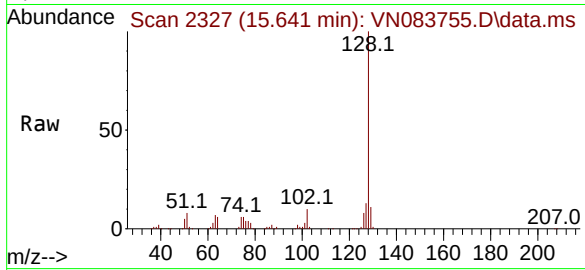
Acq: 10 Sep 2024 16:31

Instrument :

MSVOA_N

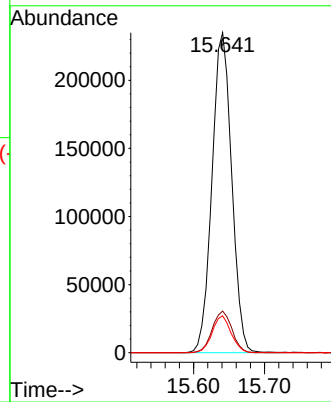
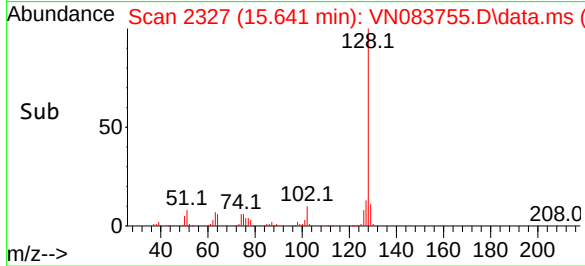
ClientSampleId :

PT-VOA-WP



Tgt Ion:128 Resp: 451724

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	11.1	8.7	13.1



Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-VOA-WPDL	SDG No.:	P3845
Lab Sample ID:	P3845-01DL	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083797.D	2		09/11/24 15:33	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.42	UD	0.42	2.00	ug/L
74-87-3	Chloromethane	0.70	UD	0.70	2.00	ug/L
75-01-4	Vinyl Chloride	32.9	D	0.68	2.00	ug/L
141-78-6	Ethyl Acetate	0.76	UD	0.76	2.00	ug/L
108-21-4	Isopropyl Acetate	0.58	UDQ	0.58	2.00	ug/L
74-83-9	Bromomethane	44.7	D	2.70	10.0	ug/L
75-00-3	Chloroethane	1.10	UD	1.10	2.00	ug/L
109-99-9	Tetrahydrofuran	2.30	UD	2.30	10.0	ug/L
75-69-4	Trichlorofluoromethane	0.68	UD	0.68	2.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	UD	0.50	2.00	ug/L
75-65-0	Tert butyl alcohol	11.1	UD	11.1	50.0	ug/L
60-29-7	Diethyl Ether	0.40	UD	0.40	2.00	ug/L
75-35-4	1,1-Dichloroethene	0.52	UD	0.52	2.00	ug/L
107-02-8	Acrolein	13.4	UD	13.4	50.0	ug/L
107-13-1	Acrylonitrile	1.80	UD	1.80	10.0	ug/L
67-64-1	Acetone	41.1	D	2.80	10.0	ug/L
75-15-0	Carbon Disulfide	0.64	UD	0.64	2.00	ug/L
1634-04-4	Methyl tert-butyl Ether	69.5	D	0.32	2.00	ug/L
79-20-9	Methyl Acetate	1.20	UD	1.20	2.00	ug/L
75-09-2	Methylene Chloride	0.64	UD	0.64	2.00	ug/L
156-60-5	trans-1,2-Dichloroethene	96.2	D	0.50	2.00	ug/L
108-05-4	Vinyl Acetate	1.40	UD	1.40	10.0	ug/L
75-34-3	1,1-Dichloroethane	0.46	UD	0.46	2.00	ug/L
110-82-7	Cyclohexane	3.20	UD	3.20	10.0	ug/L
78-93-3	2-Butanone	86.6	D	2.60	10.0	ug/L
56-23-5	Carbon Tetrachloride	0.50	UD	0.50	2.00	ug/L
594-20-7	2,2-Dichloropropane	0.62	UD	0.62	2.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6	D	0.50	2.00	ug/L
74-97-5	Bromochloromethane	0.36	UD	0.36	2.00	ug/L
67-66-3	Chloroform	20.8	D	0.52	2.00	ug/L

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-VOA-WPDL	SDG No.:	P3845
Lab Sample ID:	P3845-01DL	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083797.D	2		09/11/24 15:33	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
71-55-6	1,1,1-Trichloroethane	0.38	UD	0.38	2.00	ug/L
108-87-2	Methylcyclohexane	0.38	UD	0.38	2.00	ug/L
563-58-6	1,1-Dichloropropene	0.36	UD	0.36	2.00	ug/L
71-43-2	Benzene	37.3	D	0.32	2.00	ug/L
107-06-2	1,2-Dichloroethane	130	D	0.48	2.00	ug/L
79-01-6	Trichloroethene	53.3	D	0.64	2.00	ug/L
78-87-5	1,2-Dichloropropane	20.2	D	0.38	2.00	ug/L
74-95-3	Dibromomethane	15.2	D	0.46	2.00	ug/L
75-27-4	Bromodichloromethane	86.7	D	0.48	2.00	ug/L
108-10-1	4-Methyl-2-Pentanone	1.50	UD	1.50	10.0	ug/L
108-88-3	Toluene	90.7	D	0.36	2.00	ug/L
10061-02-6	t-1,3-Dichloropropene	98.5	D	0.42	2.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	98.2	D	0.36	2.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.42	UD	0.42	2.00	ug/L
142-28-9	1,3-Dichloropropane	0.34	UD	0.34	2.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	3.50	UD	3.50	10.0	ug/L
591-78-6	2-Hexanone	2.30	UD	2.30	10.0	ug/L
124-48-1	Dibromochloromethane	27.7	D	0.36	2.00	ug/L
106-93-4	1,2-Dibromoethane	37.8	D	0.32	2.00	ug/L
127-18-4	Tetrachloroethene	0.50	UD	0.50	2.00	ug/L
108-90-7	Chlorobenzene	41.2	D	0.26	2.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.42	UD	0.42	2.00	ug/L
100-41-4	Ethyl Benzene	78.7	D	0.32	2.00	ug/L
179601-23-1	m/p-Xylenes	23.9	D	0.62	4.00	ug/L
1330-20-7	Total Xylenes	123	D	0.90	6.00	ug/L
95-47-6	o-Xylene	98.8	D	0.28	2.00	ug/L
100-42-5	Styrene	93.1	D	0.32	2.00	ug/L
75-25-2	Bromoform	66.8	D	0.42	2.00	ug/L
98-82-8	Isopropylbenzene	0.26	UD	0.26	2.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.54	UD	0.54	2.00	ug/L
96-18-4	1,2,3-Trichloropropane	87.7	D	0.78	2.00	ug/L

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-VOA-WPDL	SDG No.:	P3845
Lab Sample ID:	P3845-01DL	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083797.D	2		09/11/24 15:33	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
108-86-1	Bromobenzene	0.52	UD	0.52	2.00	ug/L
103-65-1	n-propylbenzene	0.28	UD	0.28	2.00	ug/L
95-49-8	2-Chlorotoluene	0.32	UD	0.32	2.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	25.7	D	0.36	2.00	ug/L
106-43-4	4-Chlorotoluene	0.36	UD	0.36	2.00	ug/L
98-06-6	tert-Butylbenzene	0.34	UD	0.34	2.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	12.5	D	0.36	2.00	ug/L
135-98-8	sec-Butylbenzene	0.34	UD	0.34	2.00	ug/L
99-87-6	p-Isopropyltoluene	0.30	UD	0.30	2.00	ug/L
541-73-1	1,3-Dichlorobenzene	80.7	D	0.48	2.00	ug/L
106-46-7	1,4-Dichlorobenzene	34.2	D	0.54	2.00	ug/L
104-51-8	n-Butylbenzene	0.44	UD	0.44	2.00	ug/L
95-50-1	1,2-Dichlorobenzene	11.6	D	0.38	2.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	110	D	0.92	2.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.84	UD	0.84	2.00	ug/L
87-68-3	Hexachlorobutadiene	0.62	UD	0.62	2.00	ug/L
91-20-3	Naphthalene	59.4	D	1.20	2.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	UD	1.00	2.00	ug/L
628-63-7	N-amyl acetate	0.46	UD	0.46	2.00	ug/L
74-88-4	Methyl Iodide	2.40	UD	2.40	10.0	ug/L
107-05-1	Allyl chloride	0.48	UD	0.48	2.00	ug/L
126-98-7	Methacrylonitrile	0.62	UD	0.62	2.00	ug/L
97-63-2	Ethyl methacrylate	0.32	UD	0.32	2.00	ug/L
108-20-3	Diisopropyl ether	0.32	UD	0.32	2.00	ug/L
123-91-1	1,4-Dioxane	13.1	UD	13.1	200	ug/L
80-62-6	Methyl methacrylate	0.64	UD	0.64	2.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.3		74 - 125	105%	SPK: 50
1868-53-7	Dibromofluoromethane	49.0		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	51.0		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.1		77 - 121	98%	SPK: 50

INTERNAL STANDARDS

Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	09/03/24
Project:	NJ Waste Water PT			Date Received:	09/05/24
Client Sample ID:	PT-VOA-WPDL			SDG No.:	P3845
Lab Sample ID:	P3845-01DL			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:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083797.D	2		09/11/24 15:33	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	148000	8.224			
540-36-3	1,4-Difluorobenzene	263000	9.1			
3114-55-4	Chlorobenzene-d5	235000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	115000	13.794			

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_N\Data\VN091124\
 Data File : VN083797.D
 Acq On : 11 Sep 2024 15:33
 Operator : JC\MD
 Sample : P3845-01DL 2X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WPDL

Quant Time: Sep 12 08:49:17 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 15:18:56 2024
 Response via : Initial Calibration

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

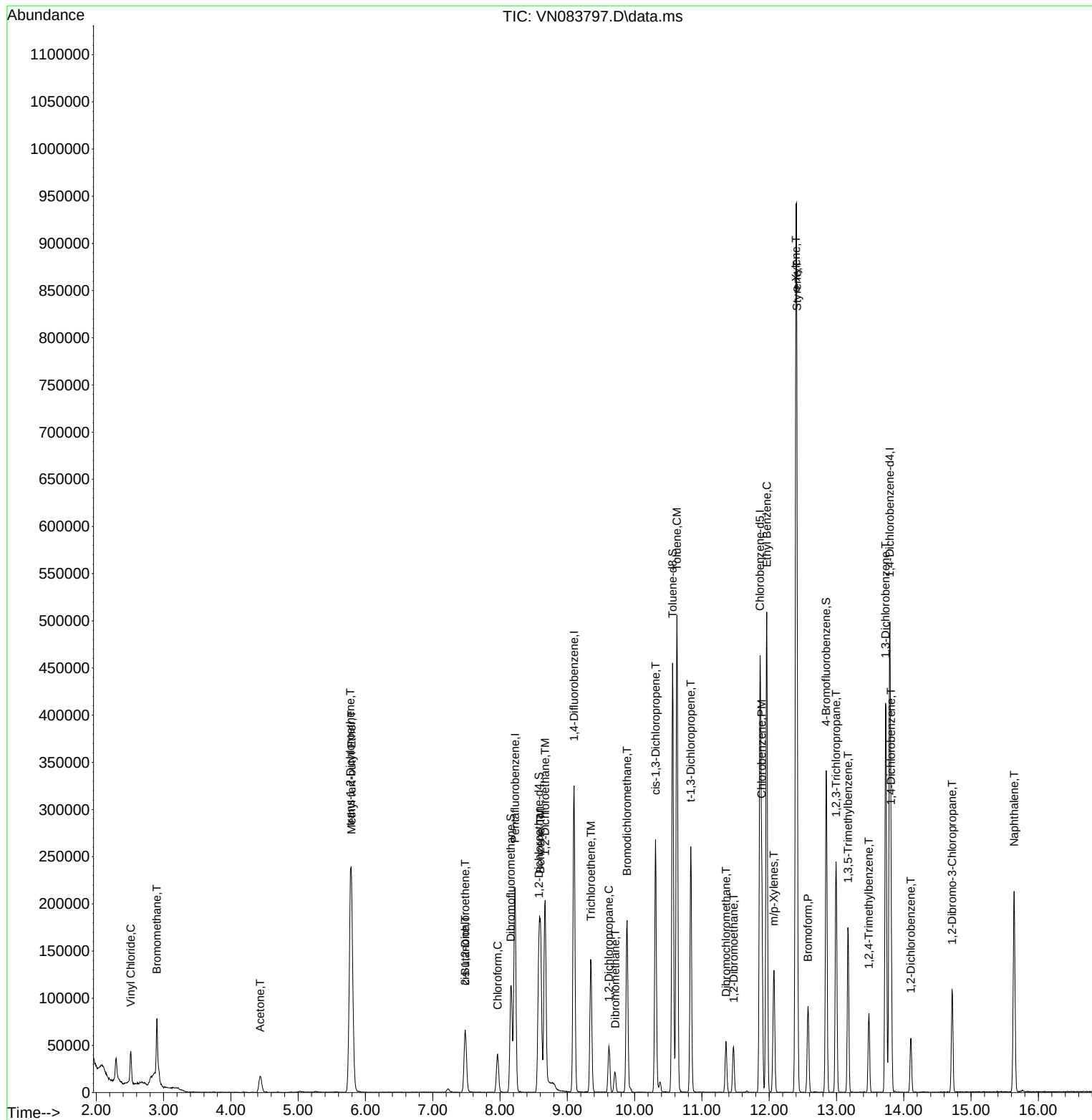
Internal Standards						
1) Pentafluorobenzene	8.224	168	148437	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	263183	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	234657	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	115304	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	116994	52.271	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.540%			
35) Dibromofluoromethane	8.159	113	82625	49.040	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.080%			
50) Toluene-d8	10.565	98	296999	50.990	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.980%			
62) 4-Bromofluorobenzene	12.847	95	117981	49.095	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.200%			
Target Compounds						Qvalue
4) Vinyl Chloride	2.512	62	31052	16.434	ug/l	97
5) Bromomethane	2.900	94	24265	22.367	ug/l	95
16) Acetone	4.436	43	18452	20.565	ug/l	95
19) Methyl tert-butyl Ether	5.794	73	201896	34.751	ug/l	99
21) trans-1,2-Dichloroethene	5.777	96	82793	48.119	ug/l	90
25) 2-Butanone	7.482	43	51055	43.293	ug/l	100
27) cis-1,2-Dichloroethene	7.482	96	19981	9.783	ug/l	90
30) Chloroform	7.965	83	37459	10.400	ug/l	91
40) Benzene	8.600	78	142444	18.662	ug/l	95
42) 1,2-Dichloroethane	8.671	62	189892	66.578	ug/l	100
44) Trichloroethene	9.353	130	47113	26.654	ug/l	98
45) 1,2-Dichloropropane	9.618	63	18643	10.106	ug/l	98
46) Dibromomethane	9.712	93	9794	7.579	ug/l	96
47) Bromodichloromethane	9.888	83	121292	43.372	ug/l	99
52) Toluene	10.629	92	211824	45.370	ug/l	94
53) t-1,3-Dichloropropene	10.835	75	139609	49.251	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	146144	49.081	ug/l	97
60) Dibromochloromethane	11.359	129	27013	13.848	ug/l	100
61) 1,2-Dibromoethane	11.470	107	32894	18.923	ug/l	99
65) Chlorobenzene	11.888	112	107422	20.597	ug/l	96
67) Ethyl Benzene	11.965	91	364635	39.357	ug/l	100
68) m/p-Xylenes	12.070	106	41076	11.942	ug/l	100
69) o-Xylene	12.400	106	164570	49.423	ug/l	100
70) Styrene	12.412	104	254368	46.547	ug/l	98
71) Bromoform	12.576	173	40673	33.383	ug/l #	100
76) 1,2,3-Trichloropropane	12.994	75	102042	43.859	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.170	105	96549	12.837	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	47147	6.241	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	163526	40.352	ug/l	100
88) 1,4-Dichlorobenzene	13.811	146	70177	17.102	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	22690	5.802	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	28259	54.085	ug/l	98
95) Naphthalene	15.641	128	189667	29.704	ug/l	99

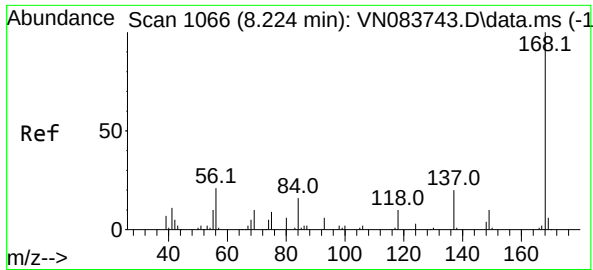
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083797.D
Acq On : 11 Sep 2024 15:33
Operator : JC\MD
Sample : P3845-01DL 2X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

Quant Time: Sep 12 08:49:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration

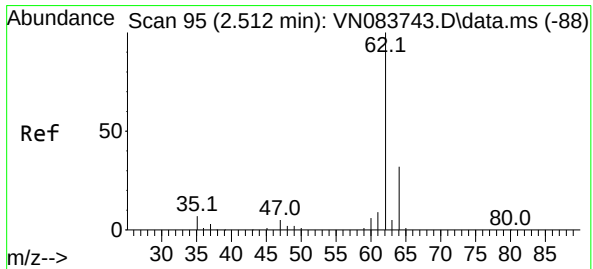
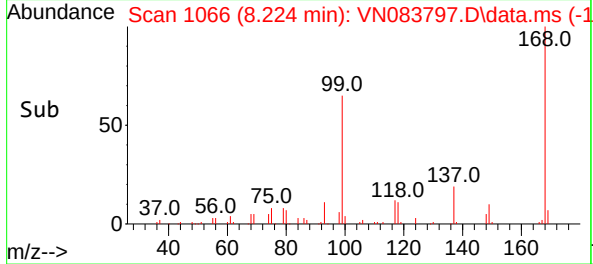
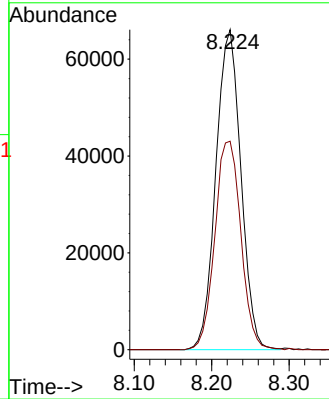
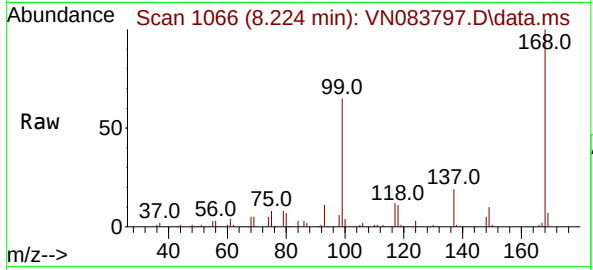




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

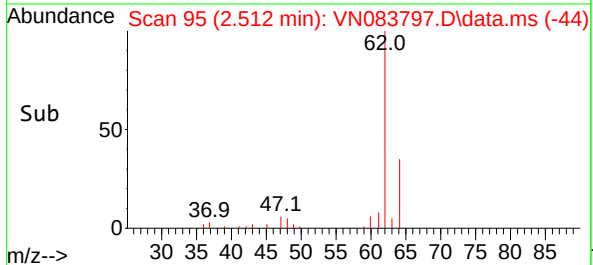
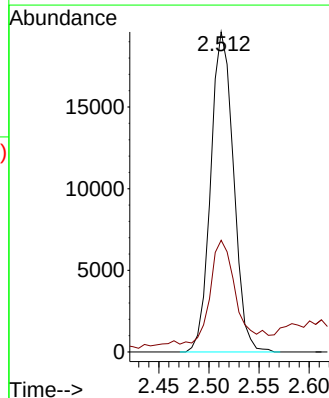
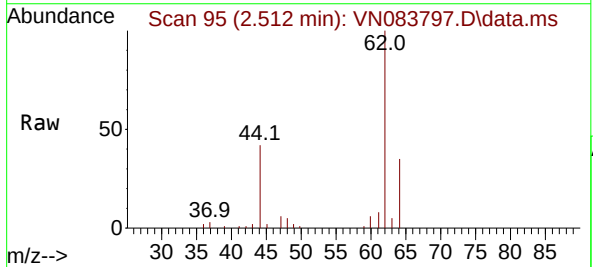
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

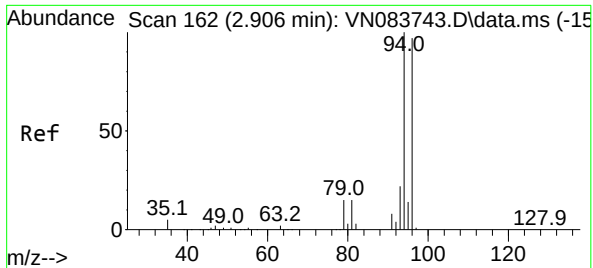
Tgt Ion:168 Resp: 148437
Ion Ratio Lower Upper
168 100
99 65.1 54.2 81.2



#4
Vinyl Chloride
Concen: 16.434 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 62 Resp: 31052
Ion Ratio Lower Upper
62 100
64 32.4 24.7 37.1

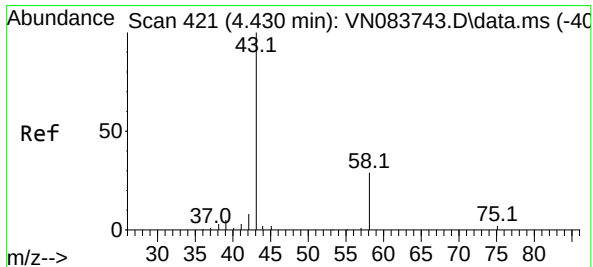
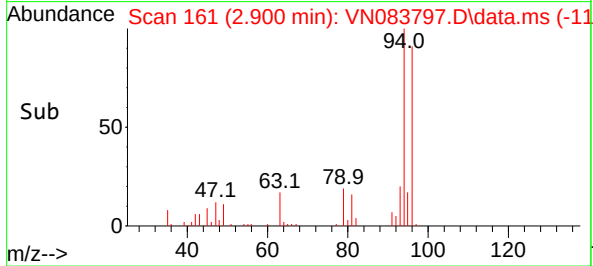
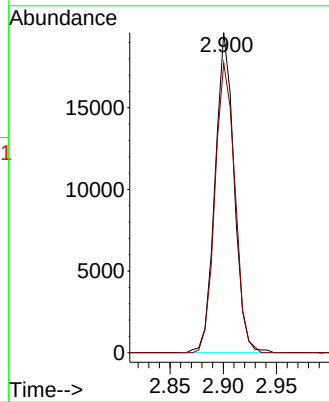
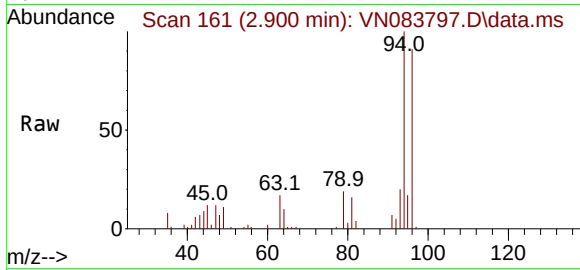




#5
Bromomethane
Concen: 22.367 ug/l
RT: 2.900 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

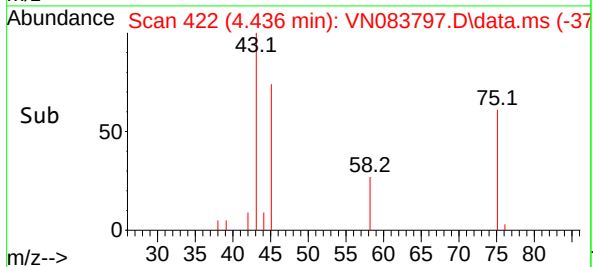
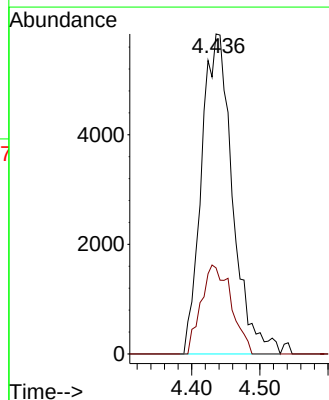
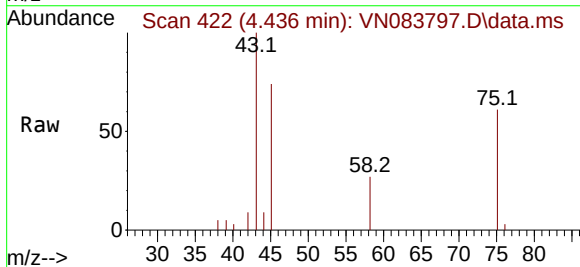
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

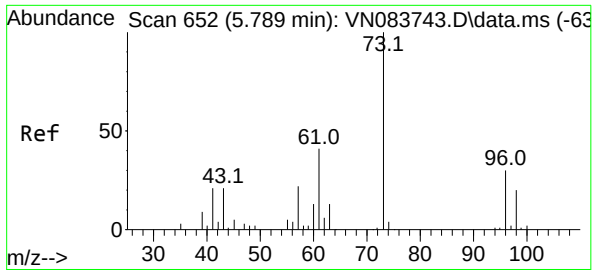
Tgt Ion: 94 Resp: 24265
Ion Ratio Lower Upper
94 100
96 90.6 76.0 114.0



#16
Acetone
Concen: 20.565 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.006 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 43 Resp: 18452
Ion Ratio Lower Upper
43 100
58 26.9 23.7 35.5





#19

Methyl tert-butyl Ether

Concen: 34.751 ug/l

RT: 5.794 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN083797.D

Acq: 11 Sep 2024 15:33

Instrument :

MSVOA_N

ClientSampleId :

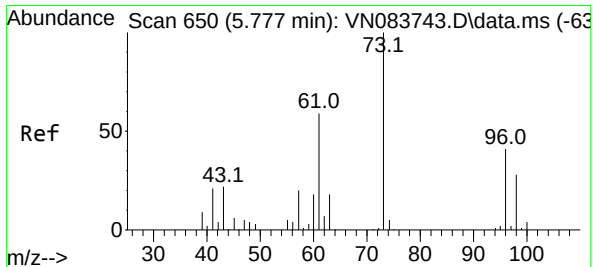
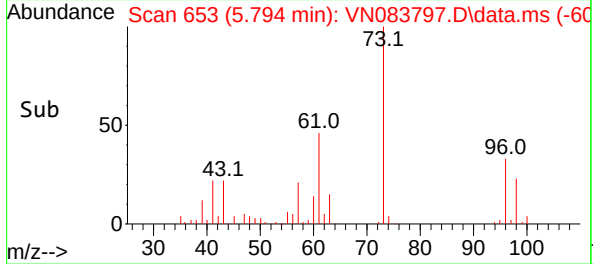
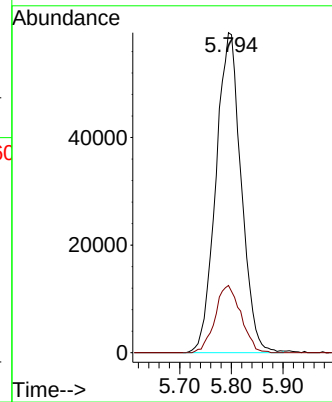
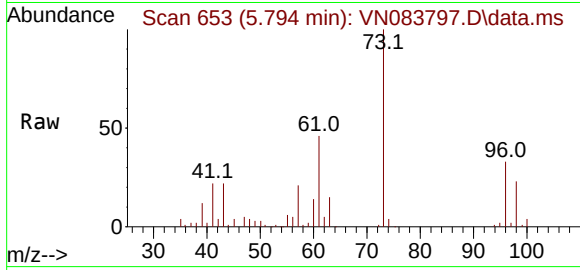
PT-VOA-WPDL

Tgt Ion: 73 Resp: 201896

Ion Ratio Lower Upper

73 100

57 21.0 17.0 25.6



#21

trans-1,2-Dichloroethene

Concen: 48.119 ug/l

RT: 5.777 min Scan# 650

Delta R.T. -0.000 min

Lab File: VN083797.D

Acq: 11 Sep 2024 15:33

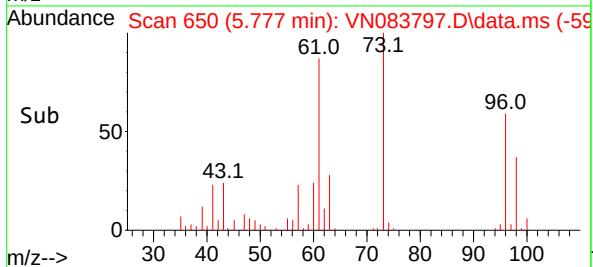
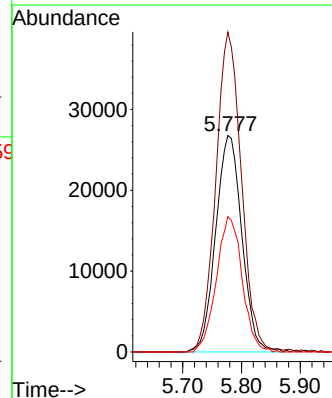
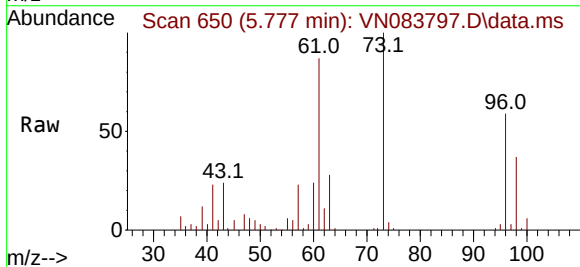
Tgt Ion: 96 Resp: 82793

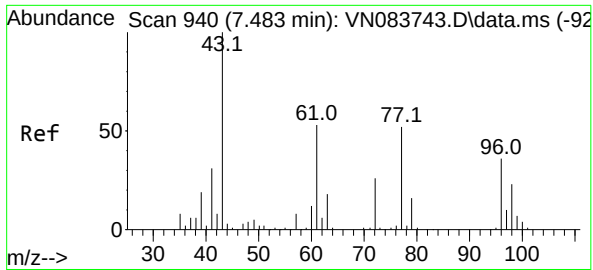
Ion Ratio Lower Upper

96 100

61 147.8 106.0 159.0

98 62.5 52.2 78.2

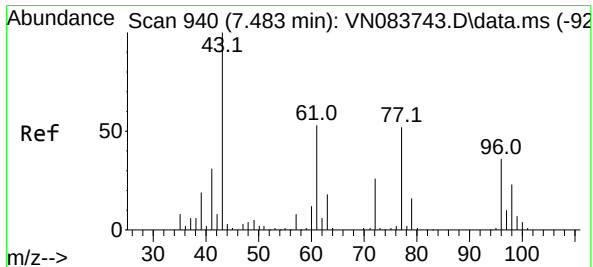
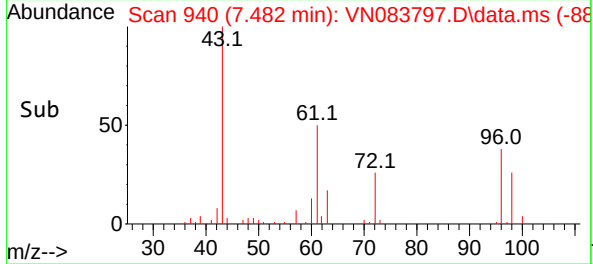
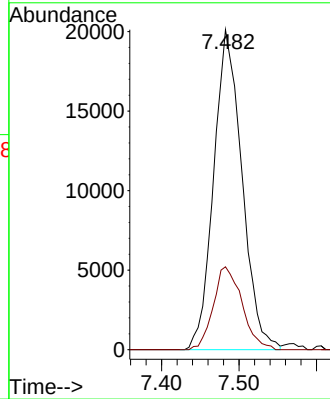
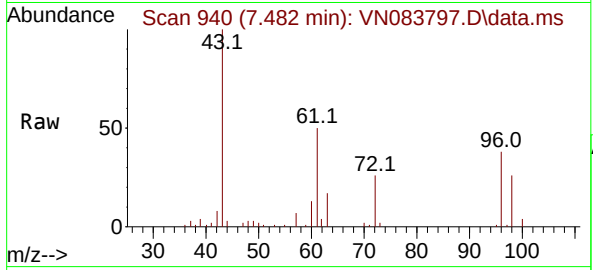




#25
2-Butanone
Concen: 43.293 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

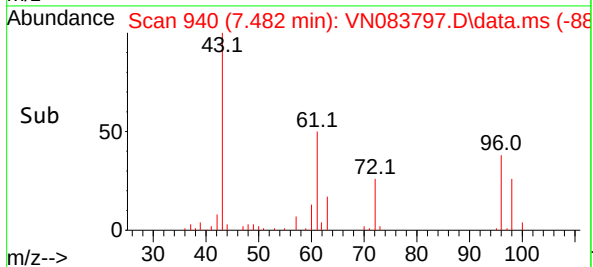
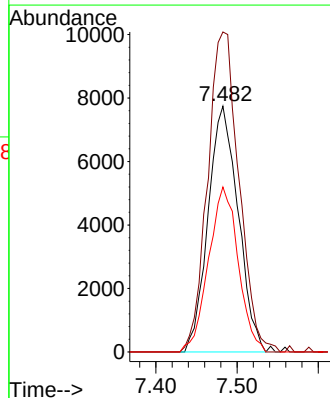
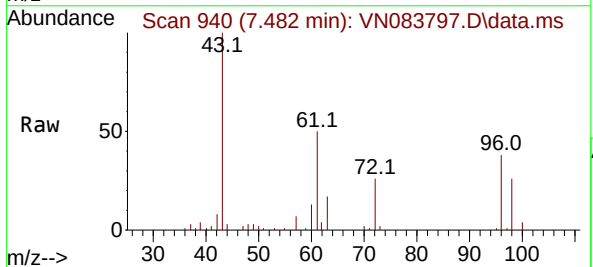
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

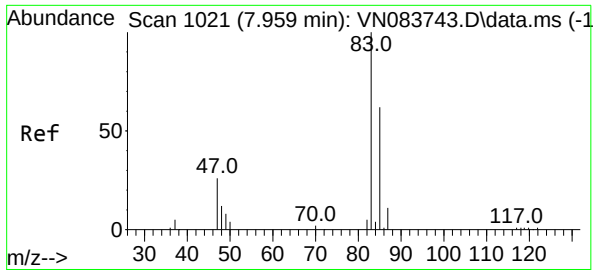
Tgt Ion: 43 Resp: 51055
Ion Ratio Lower Upper
43 100
72 25.9 20.8 31.2



#27
cis-1,2-Dichloroethene
Concen: 9.783 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 96 Resp: 19981
Ion Ratio Lower Upper
96 100
61 135.6 0.0 306.2
98 66.1 0.0 128.6





#30

Chloroform

Concen: 10.400 ug/l

RT: 7.965 min Scan# 1021

Delta R.T. 0.006 min

Lab File: VN083797.D

Acq: 11 Sep 2024 15:33

Instrument :

MSVOA_N

ClientSampleId :

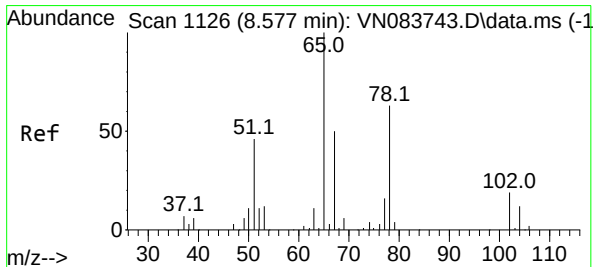
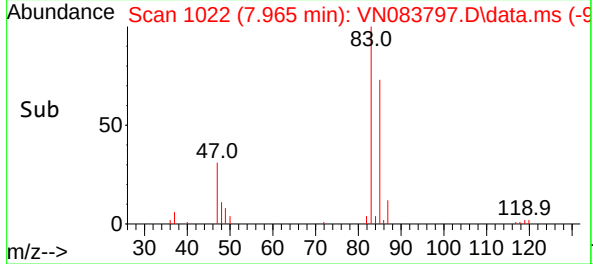
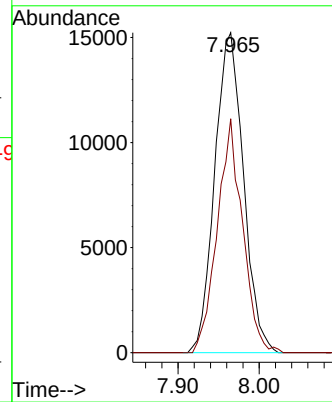
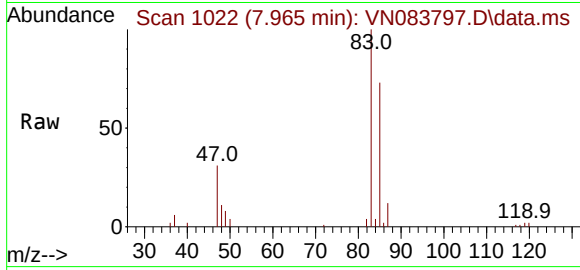
PT-VOA-WPDL

Tgt Ion: 83 Resp: 37459

Ion Ratio Lower Upper

83 100

85 73.1 52.8 79.2



#33

1,2-Dichloroethane-d4

Concen: 52.271 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN083797.D

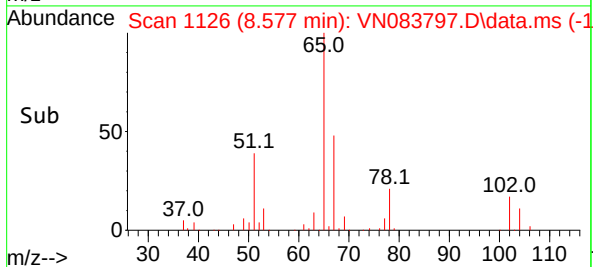
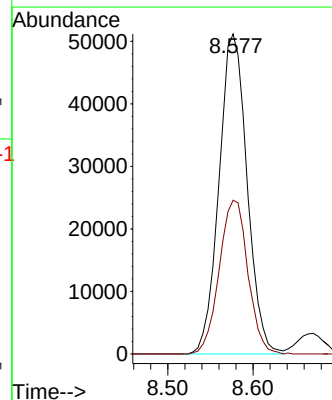
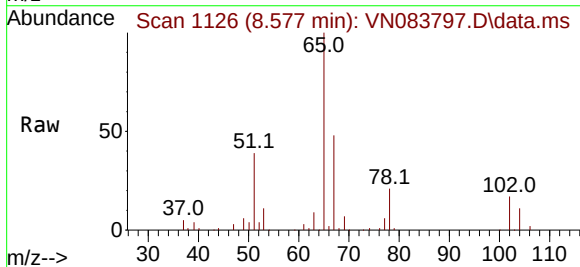
Acq: 11 Sep 2024 15:33

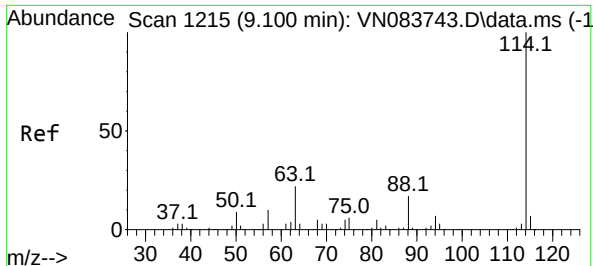
Tgt Ion: 65 Resp: 116994

Ion Ratio Lower Upper

65 100

67 49.0 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN083797.D

Acq: 11 Sep 2024 15:33

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WPDL

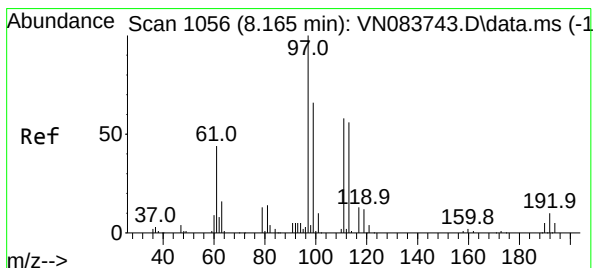
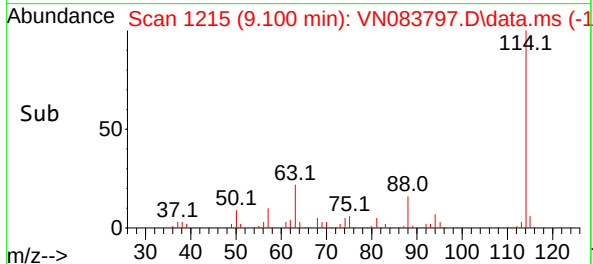
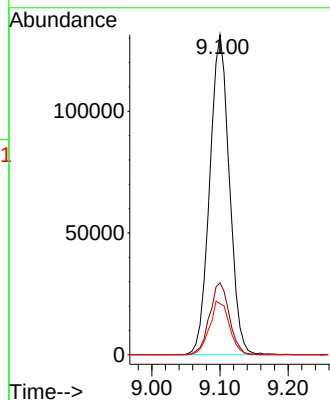
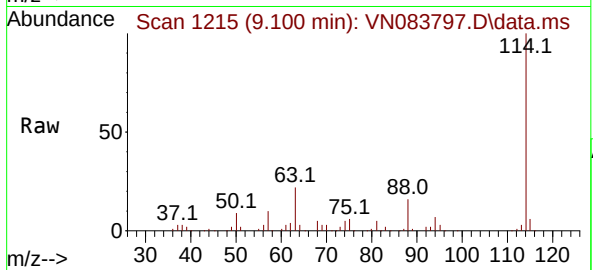
Tgt Ion:114 Resp: 263183

Ion Ratio Lower Upper

114 100

63 22.5 0.0 43.4

88 15.9 0.0 32.6



#35

Dibromofluoromethane

Concen: 49.040 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VN083797.D

Acq: 11 Sep 2024 15:33

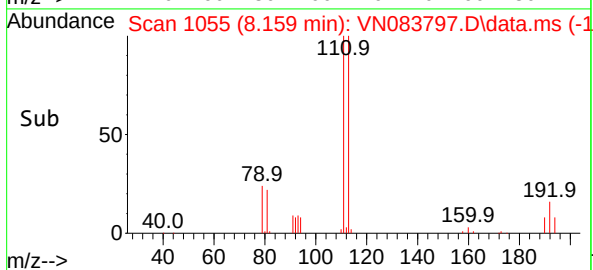
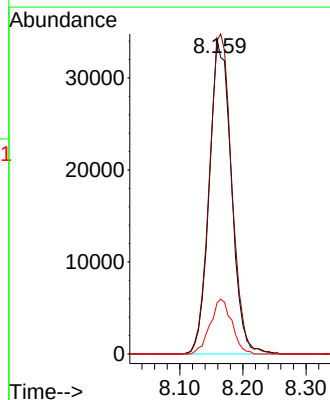
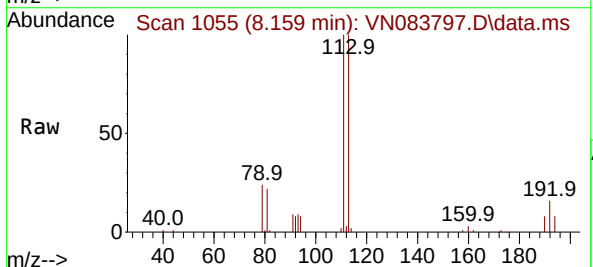
Tgt Ion:113 Resp: 82625

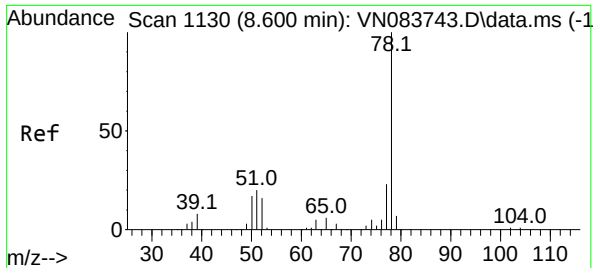
Ion Ratio Lower Upper

113 100

111 103.8 82.6 124.0

192 17.2 14.3 21.5





#40

Benzene

Concen: 18.662 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN083797.D

Acq: 11 Sep 2024 15:33

Instrument :

MSVOA_N

ClientSampleId :

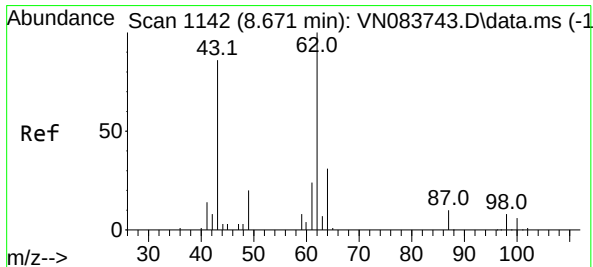
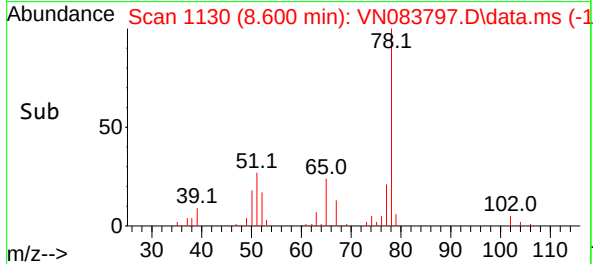
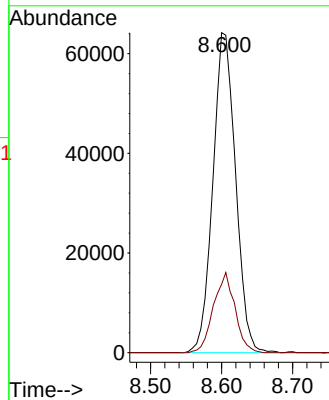
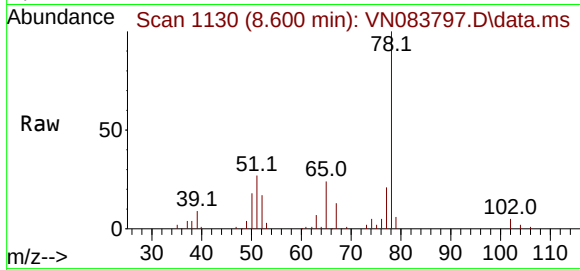
PT-VOA-WPDL

Tgt Ion: 78 Resp: 142444

Ion Ratio Lower Upper

78 100

77 21.4 19.0 28.6



#42

1,2-Dichloroethane

Concen: 66.578 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VN083797.D

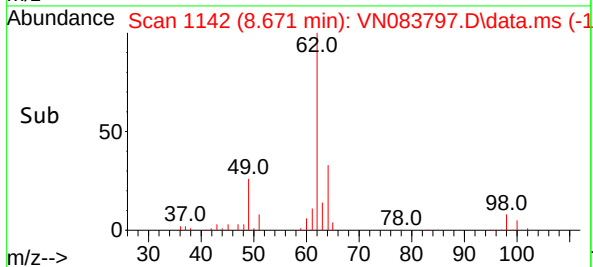
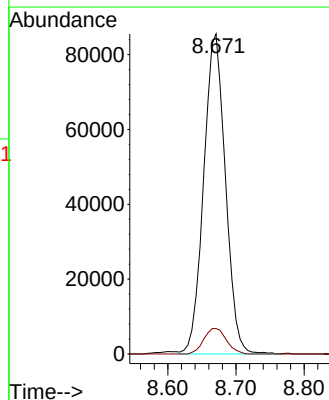
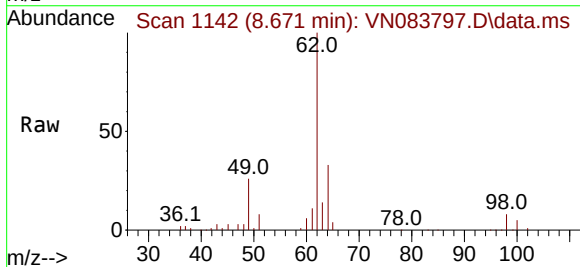
Acq: 11 Sep 2024 15:33

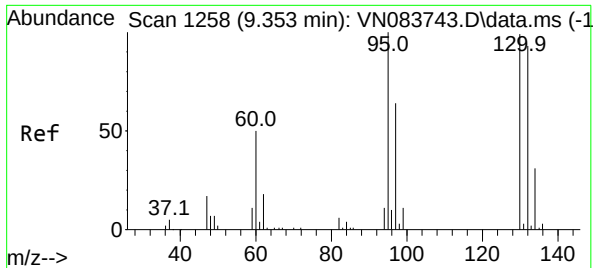
Tgt Ion: 62 Resp: 189892

Ion Ratio Lower Upper

62 100

98 8.2 0.0 16.6

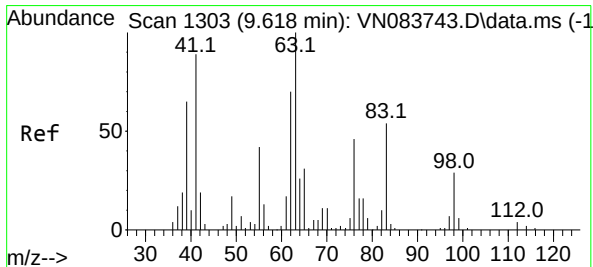
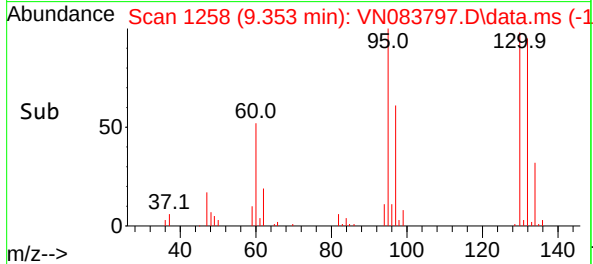
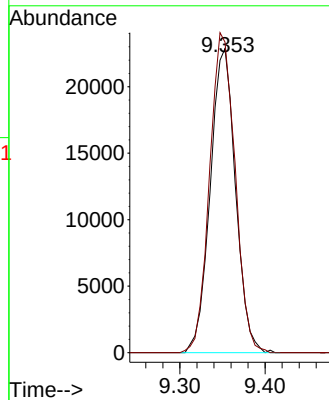
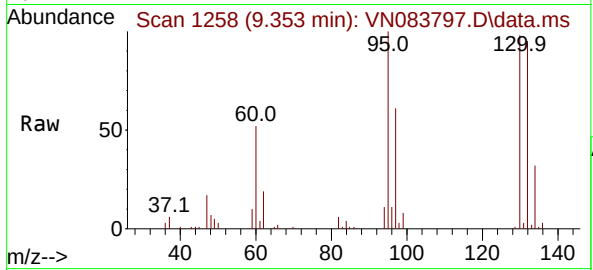




#44
Trichloroethene
Concen: 26.654 ug/l
RT: 9.353 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

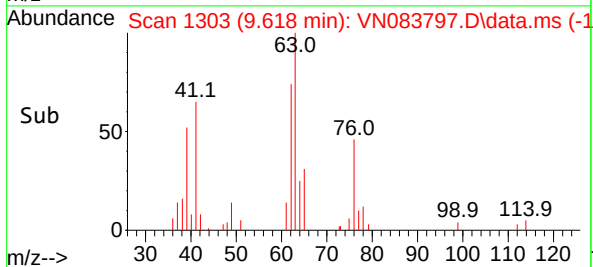
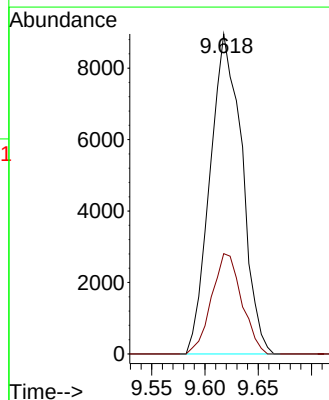
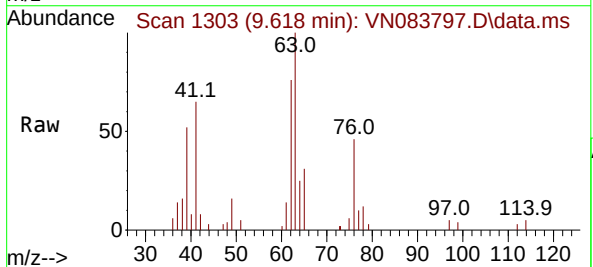
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

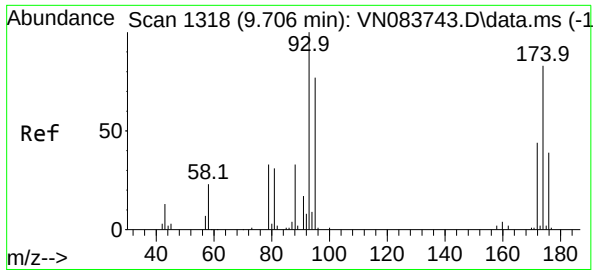
Tgt Ion:130 Resp: 47113
Ion Ratio Lower Upper
130 100
95 102.1 0.0 200.4



#45
1,2-Dichloropropane
Concen: 10.106 ug/l
RT: 9.618 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 63 Resp: 18643
Ion Ratio Lower Upper
63 100
65 31.4 25.9 38.9





#46

Dibromomethane

Concen: 7.579 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. 0.006 min

Lab File: VN083797.D

Acq: 11 Sep 2024 15:33

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WPDL

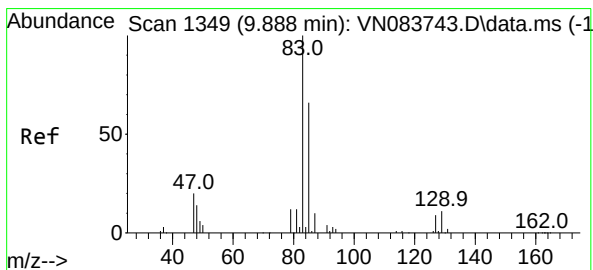
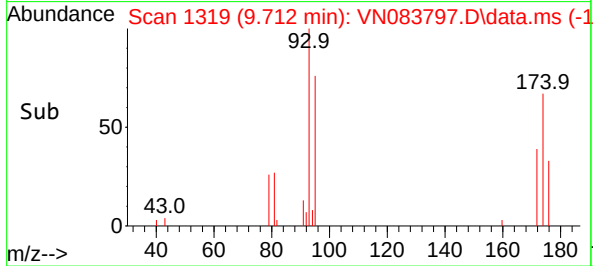
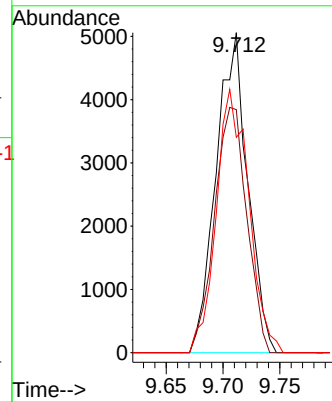
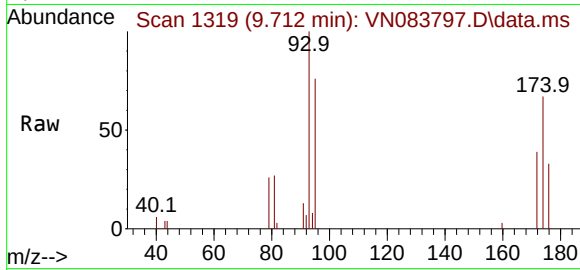
Tgt Ion: 93 Resp: 9794

Ion Ratio Lower Upper

93 100

95 78.4 65.3 97.9

174 84.6 71.0 106.4



#47

Bromodichloromethane

Concen: 43.372 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.000 min

Lab File: VN083797.D

Acq: 11 Sep 2024 15:33

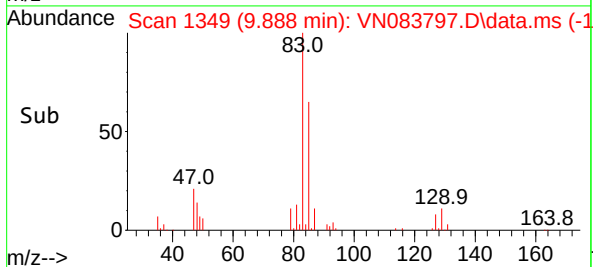
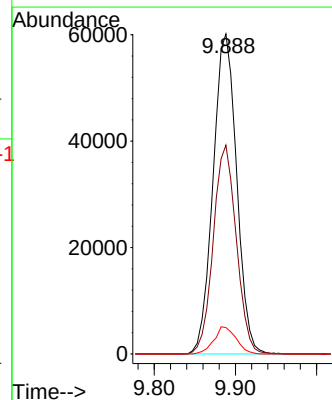
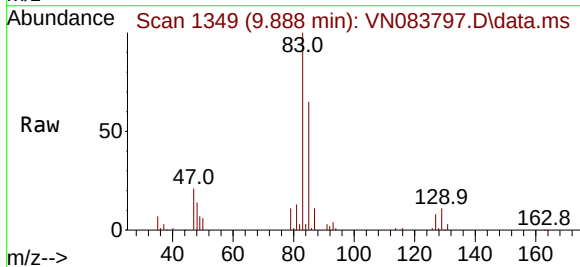
Tgt Ion: 83 Resp: 121292

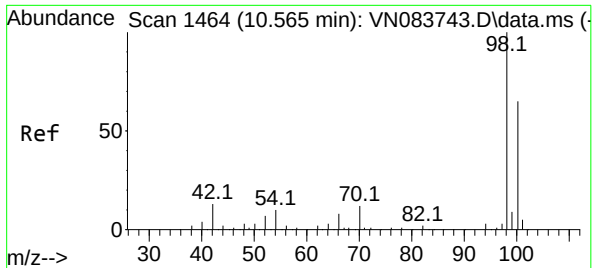
Ion Ratio Lower Upper

83 100

85 65.3 51.8 77.8

127 8.3 6.6 9.8

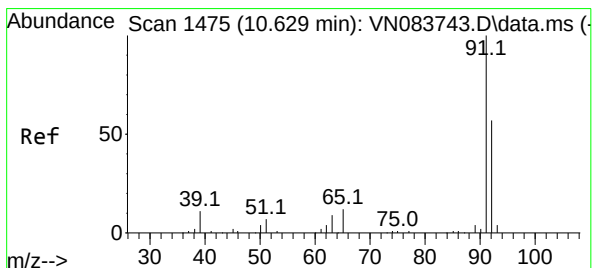
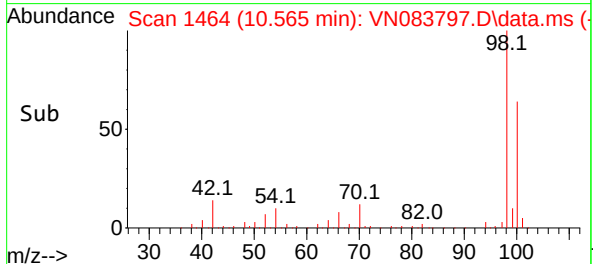
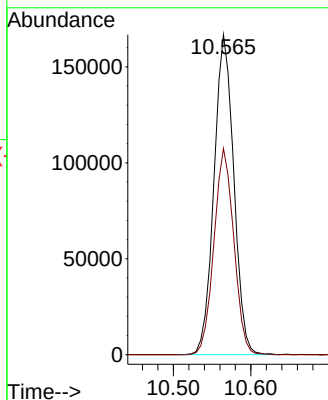
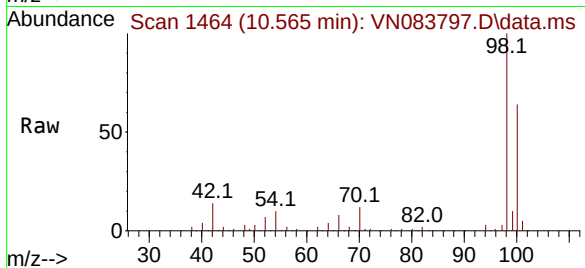




#50
Toluene-d8
Concen: 50.990 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

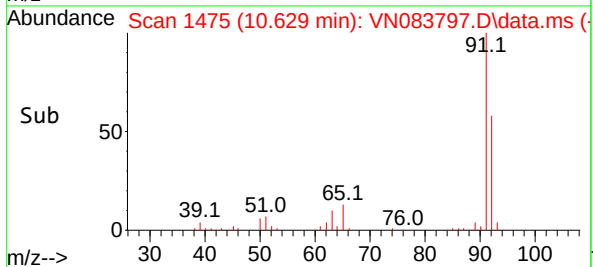
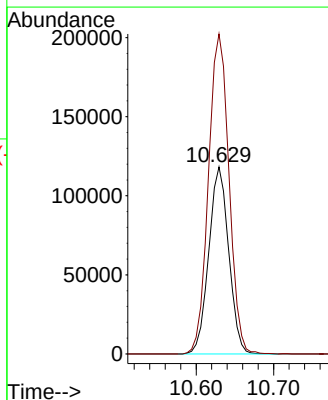
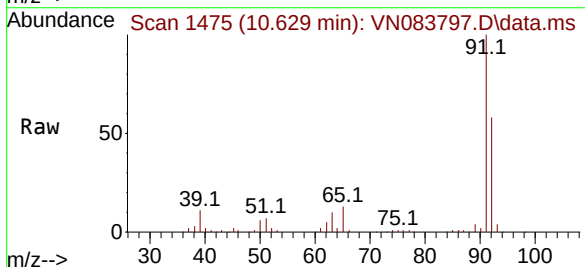
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

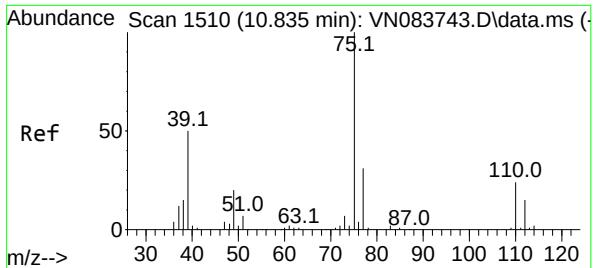
Tgt Ion: 98 Resp: 296999
Ion Ratio Lower Upper
98 100
100 64.5 52.0 78.0



#52
Toluene
Concen: 45.370 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 92 Resp: 211824
Ion Ratio Lower Upper
92 100
91 176.5 134.7 202.1

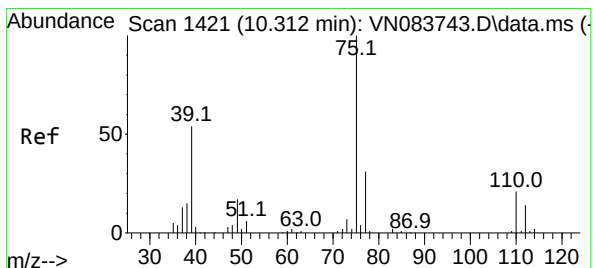
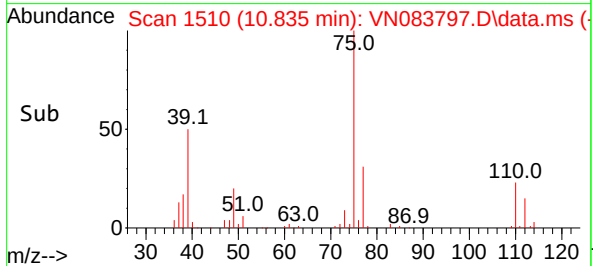
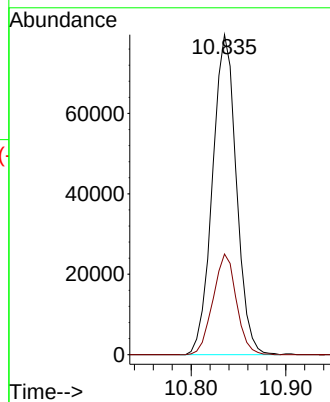
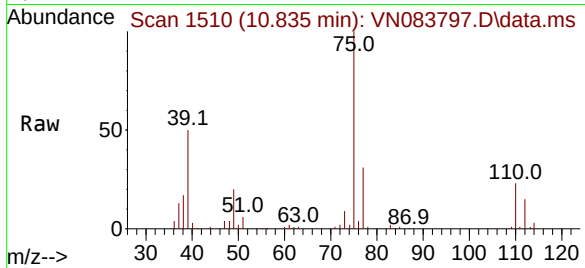




#53
t-1,3-Dichloropropene
Concen: 49.251 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

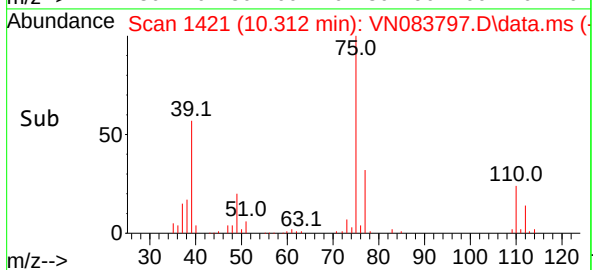
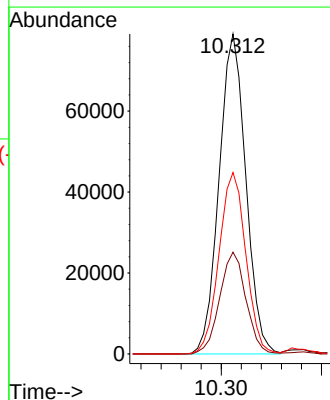
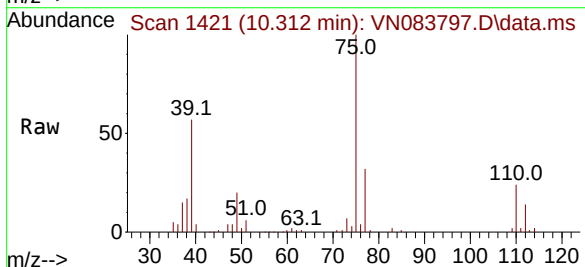
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

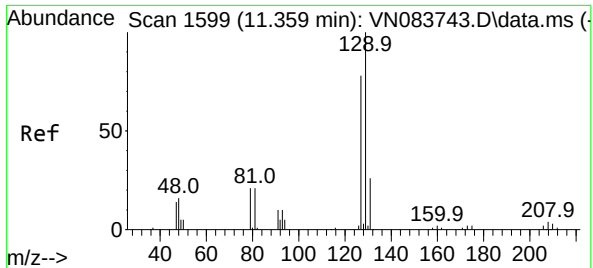
Tgt Ion: 75 Resp: 139609
Ion Ratio Lower Upper
75 100
77 31.4 25.8 38.6



#54
cis-1,3-Dichloropropene
Concen: 49.081 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 75 Resp: 146144
Ion Ratio Lower Upper
75 100
77 31.8 25.0 37.6
39 56.7 42.6 64.0

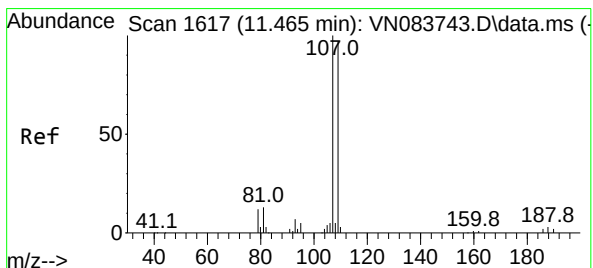
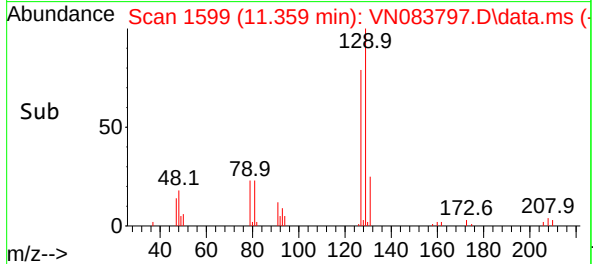
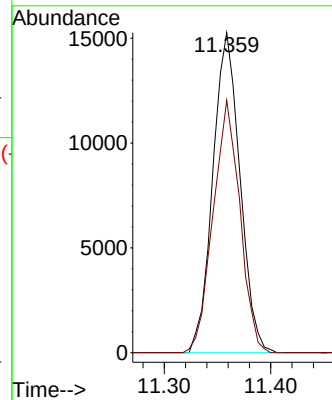
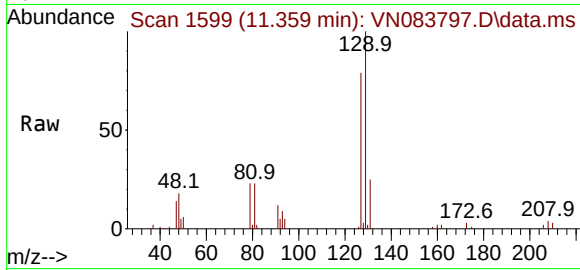




#60
Dibromochloromethane
Concen: 13.848 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

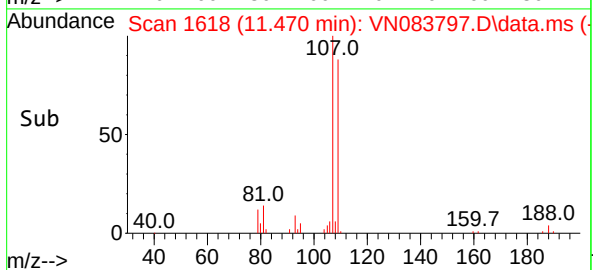
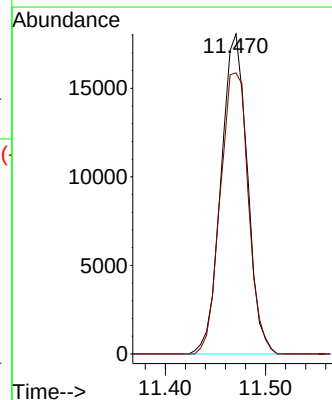
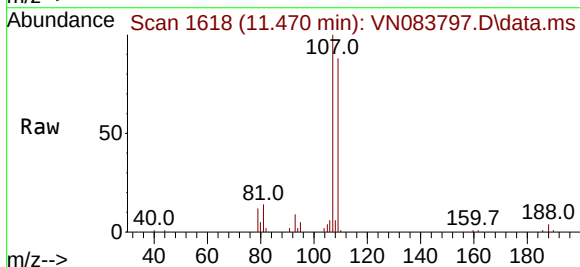
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

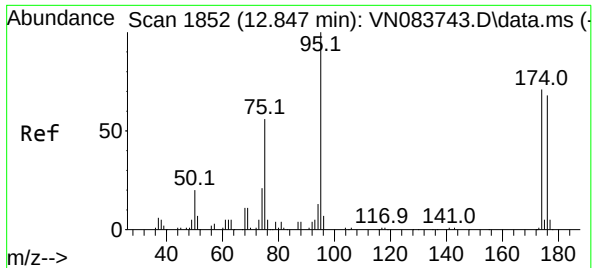
Tgt Ion:129 Resp: 27013
Ion Ratio Lower Upper
129 100
127 77.9 39.0 116.9



#61
1,2-Dibromoethane
Concen: 18.923 ug/l
RT: 11.470 min Scan# 1618
Delta R.T. 0.006 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion:107 Resp: 32894
Ion Ratio Lower Upper
107 100
109 94.0 75.6 113.4

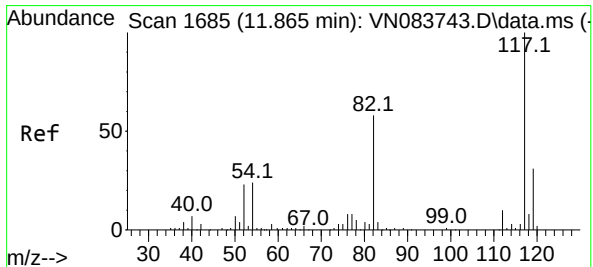
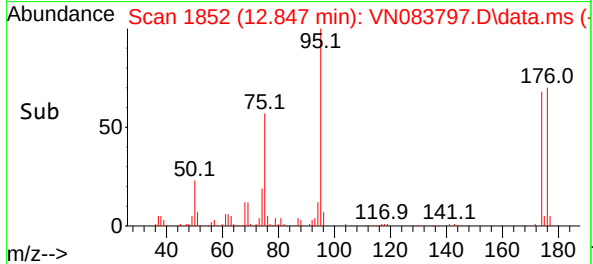
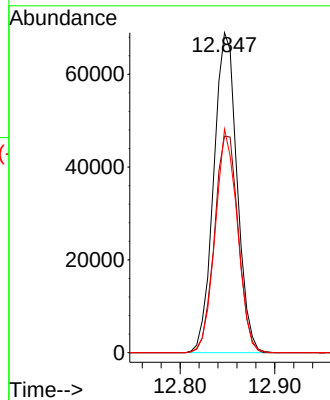
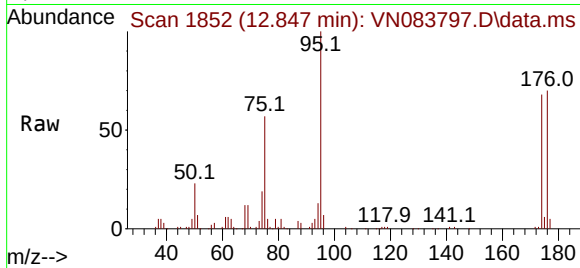




#62
4-Bromofluorobenzene
Concen: 49.095 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

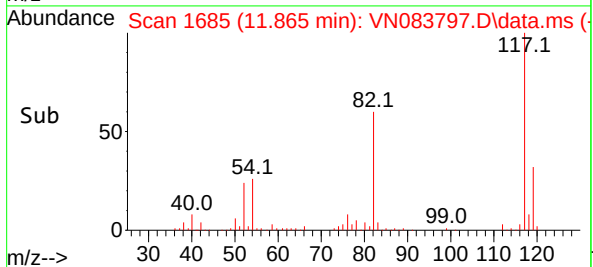
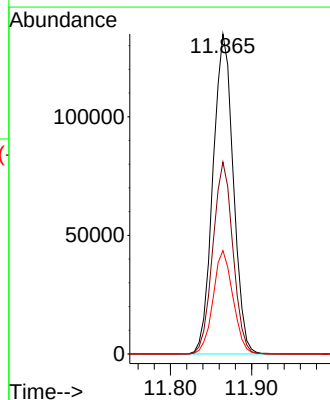
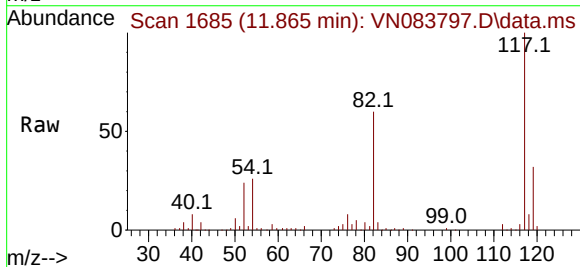
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

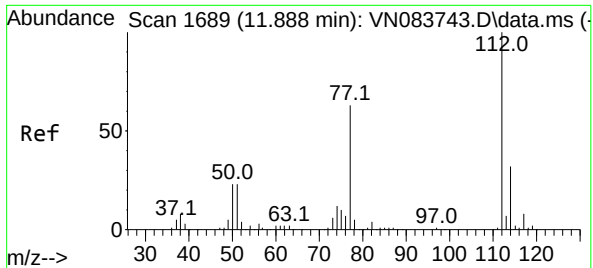
Tgt Ion: 95 Resp: 117981
Ion Ratio Lower Upper
95 100
174 69.2 0.0 139.8
176 66.7 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 117 Resp: 234657
Ion Ratio Lower Upper
117 100
82 60.0 47.4 71.0
119 32.3 26.3 39.5





#65

Chlorobenzene

Concen: 20.597 ug/l

RT: 11.888 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN083797.D

Acq: 11 Sep 2024 15:33

Instrument :

MSVOA_N

ClientSampleId :

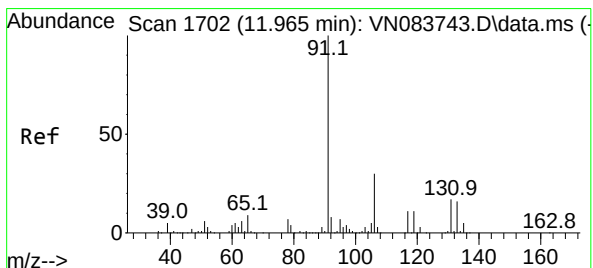
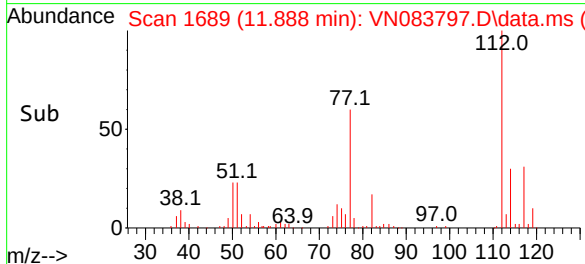
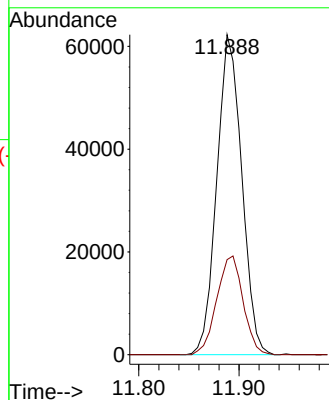
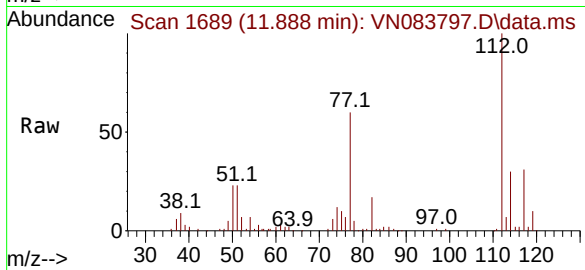
PT-VOA-WPDL

Tgt Ion:112 Resp: 107422

Ion Ratio Lower Upper

112 100

114 29.7 25.7 38.5



#67

Ethyl Benzene

Concen: 39.357 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. -0.000 min

Lab File: VN083797.D

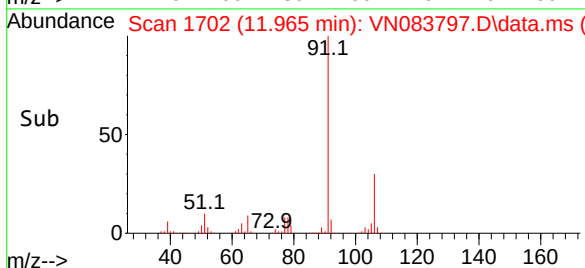
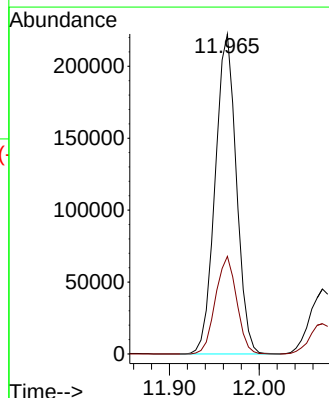
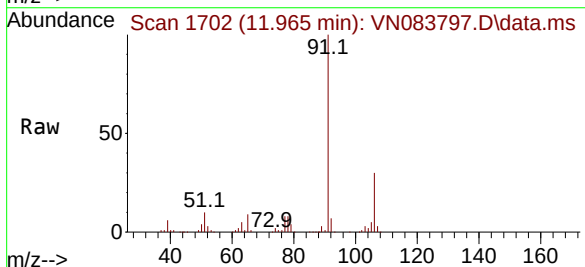
Acq: 11 Sep 2024 15:33

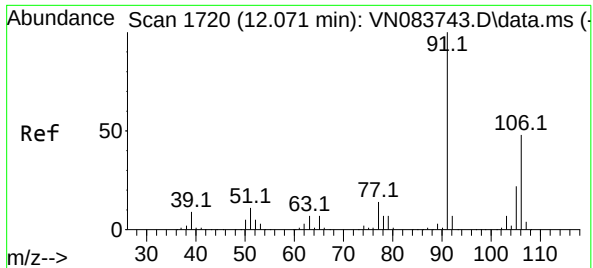
Tgt Ion: 91 Resp: 364635

Ion Ratio Lower Upper

91 100

106 30.5 24.3 36.5

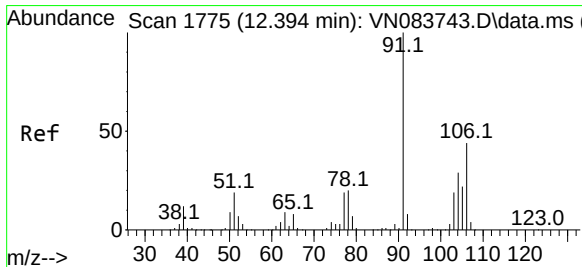
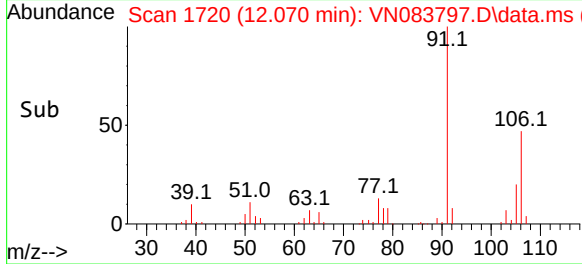
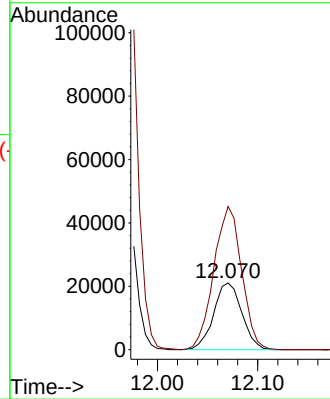
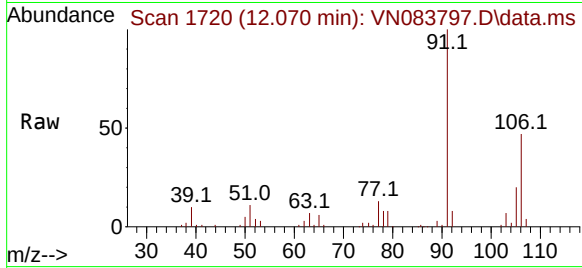




#68
m/p-Xylenes
Concen: 11.942 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

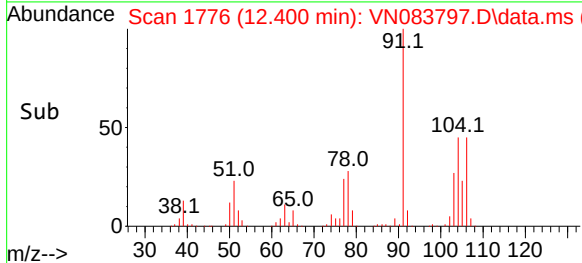
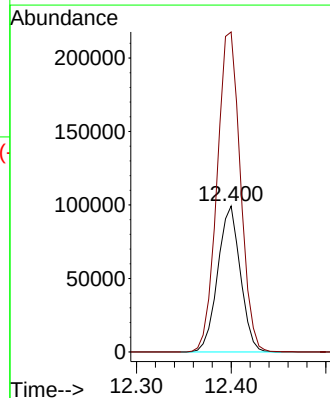
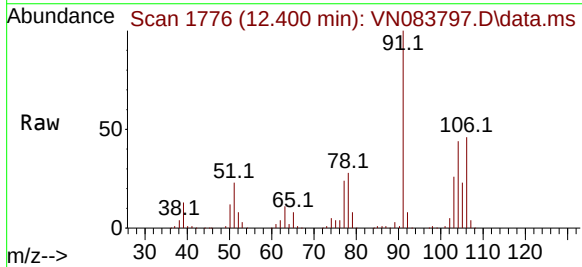
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

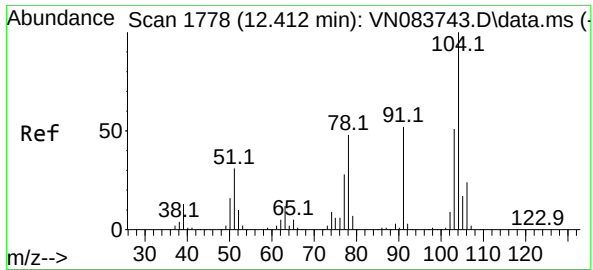
Tgt Ion:106 Resp: 41076
Ion Ratio Lower Upper
106 100
91 212.2 169.2 253.8



#69
o-Xylene
Concen: 49.423 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.006 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion:106 Resp: 164570
Ion Ratio Lower Upper
106 100
91 226.4 112.9 338.6

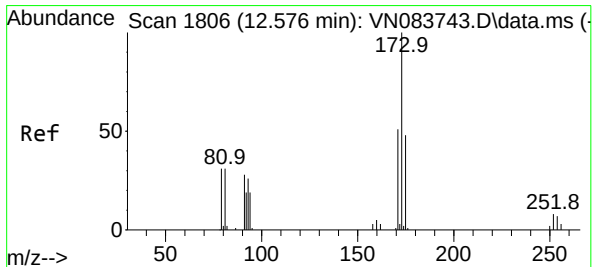
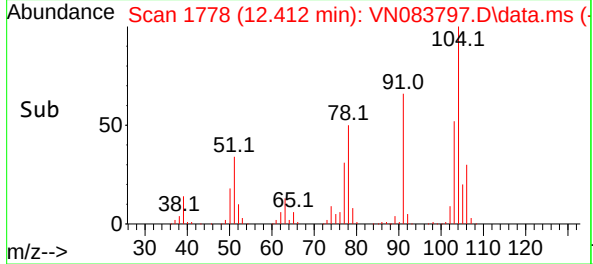
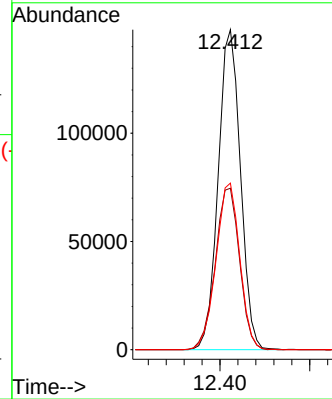
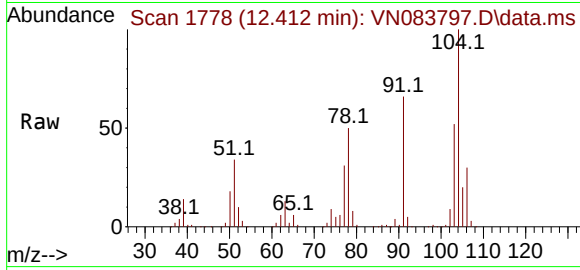




#70
Styrene
Concen: 46.547 ug/l
RT: 12.412 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

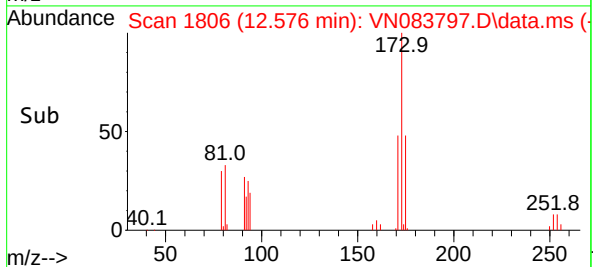
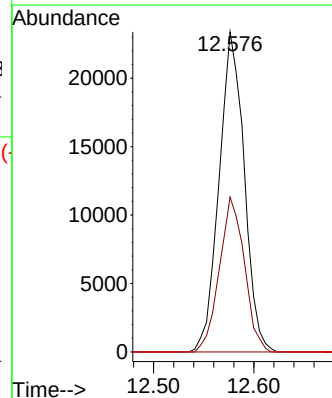
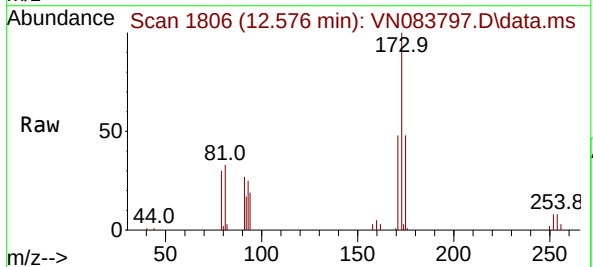
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

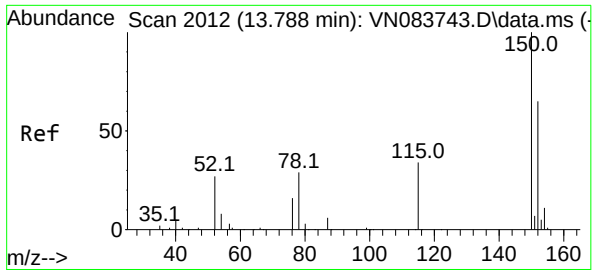
Tgt Ion:104 Resp: 254368
Ion Ratio Lower Upper
104 100
78 55.2 43.3 64.9
103 55.5 43.4 65.2



#71
Bromoform
Concen: 33.383 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion:173 Resp: 40673
Ion Ratio Lower Upper
173 100
175 48.1 24.1 72.2
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.006 min

Lab File: VN083797.D

Acq: 11 Sep 2024 15:33

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WPDL

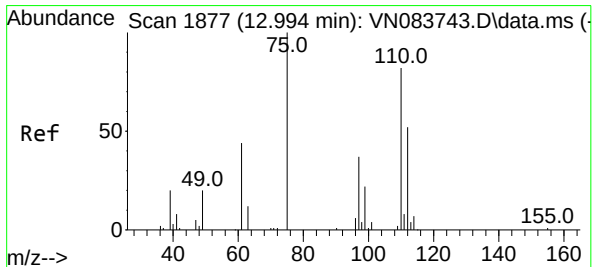
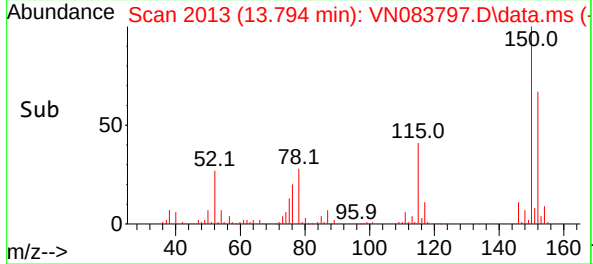
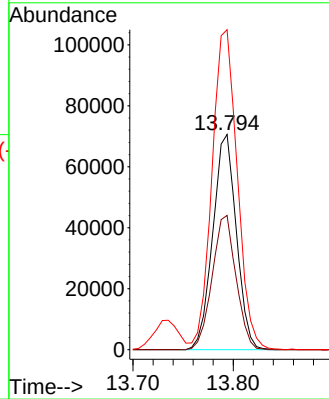
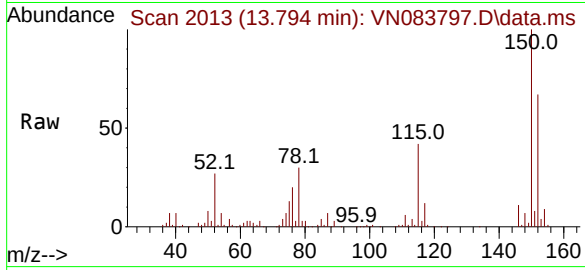
Tgt Ion:152 Resp: 115304

Ion Ratio Lower Upper

152 100

115 63.2 32.2 96.6

150 160.1 0.0 348.6



#76

1,2,3-Trichloropropane

Concen: 43.859 ug/l

RT: 12.994 min Scan# 1877

Delta R.T. -0.000 min

Lab File: VN083797.D

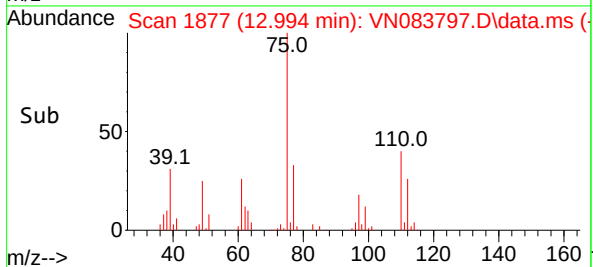
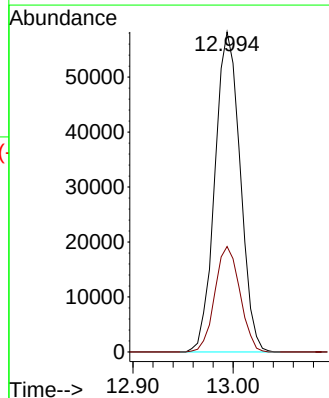
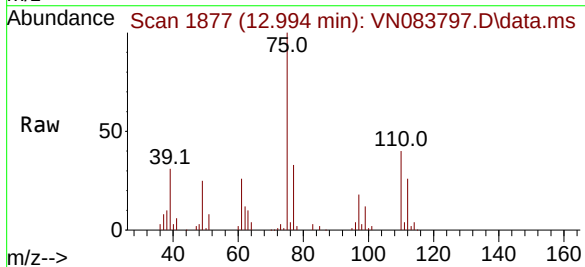
Acq: 11 Sep 2024 15:33

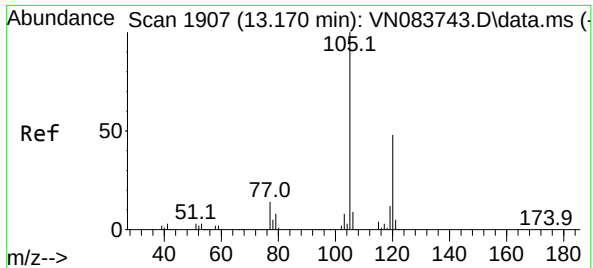
Tgt Ion: 75 Resp: 102042

Ion Ratio Lower Upper

75 100

77 32.6 95.2 285.6#

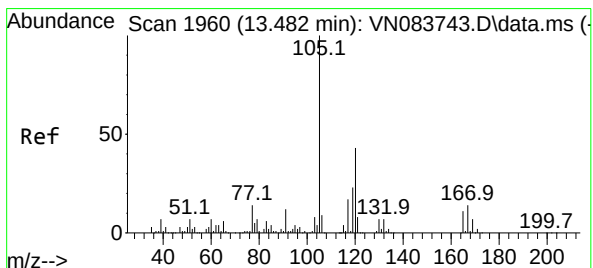
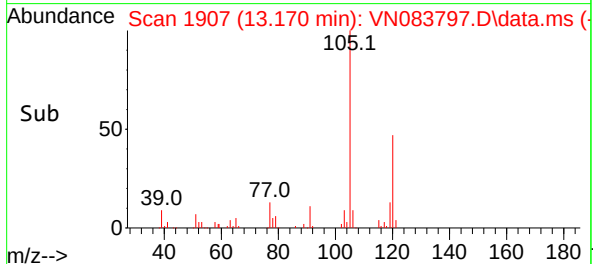
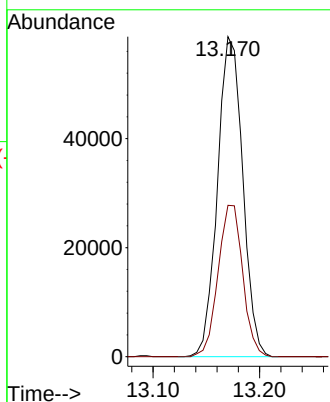
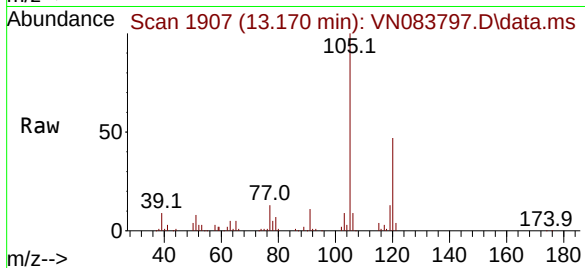




#80
1,3,5-Trimethylbenzene
Concen: 12.837 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

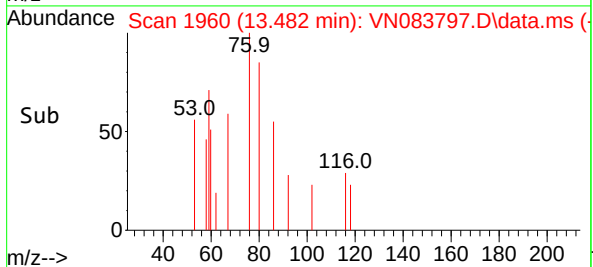
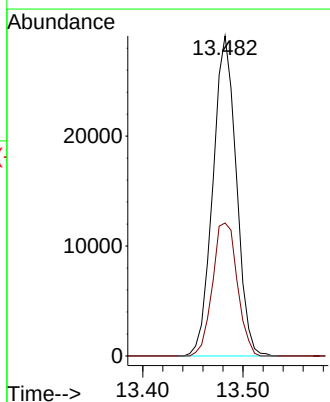
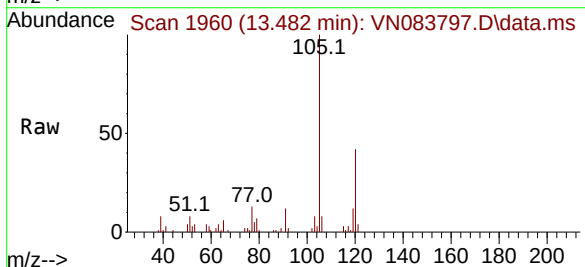
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

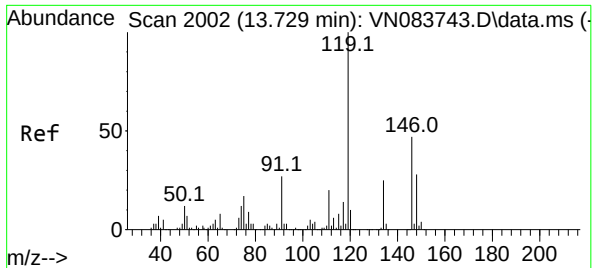
Tgt Ion:105 Resp: 96549
Ion Ratio Lower Upper
105 100
120 46.2 23.4 70.3



#84
1,2,4-Trimethylbenzene
Concen: 6.241 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion:105 Resp: 47147
Ion Ratio Lower Upper
105 100
120 44.0 21.8 65.4





#87

1,3-Dichlorobenzene

Concen: 40.352 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN083797.D

Acq: 11 Sep 2024 15:33

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WPDL

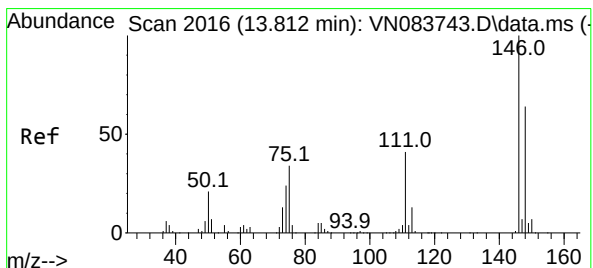
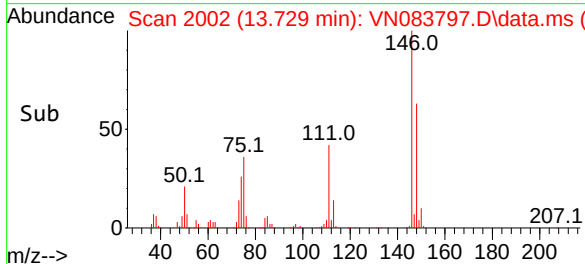
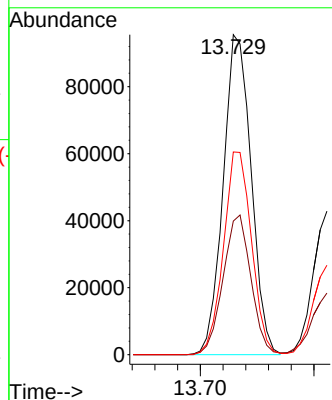
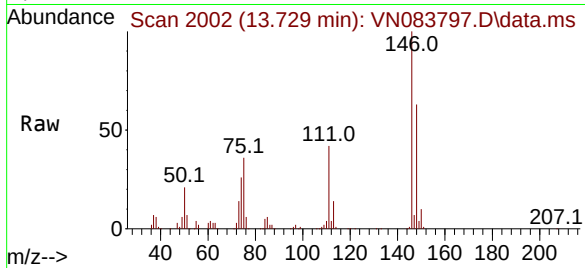
Tgt Ion:146 Resp: 163526

Ion Ratio Lower Upper

146 100

111 43.6 21.7 65.1

148 63.4 31.7 95.1



#88

1,4-Dichlorobenzene

Concen: 17.102 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN083797.D

Acq: 11 Sep 2024 15:33

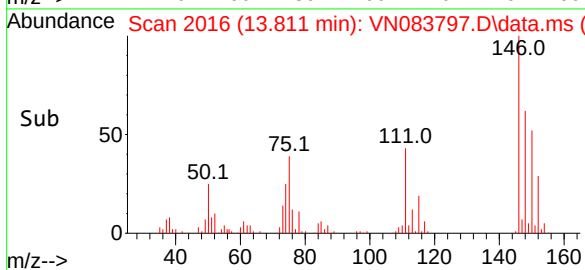
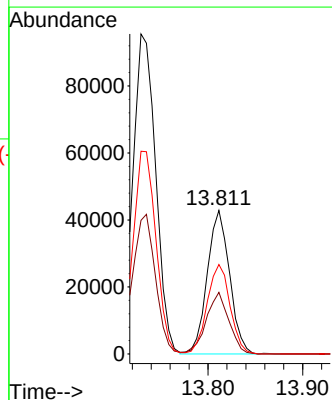
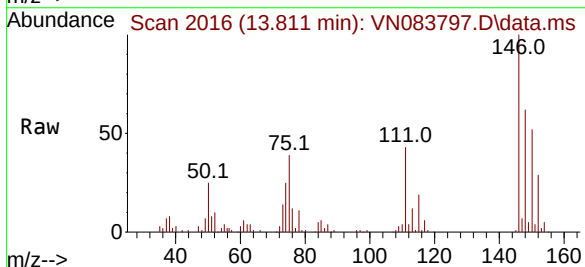
Tgt Ion:146 Resp: 70177

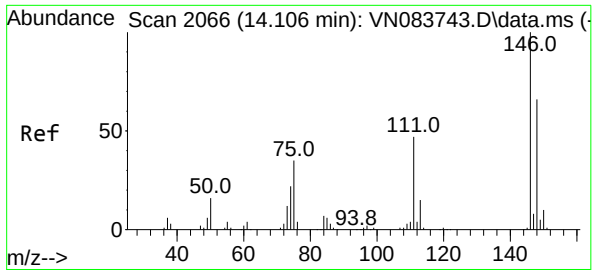
Ion Ratio Lower Upper

146 100

111 43.5 21.3 64.0

148 64.0 32.0 96.2

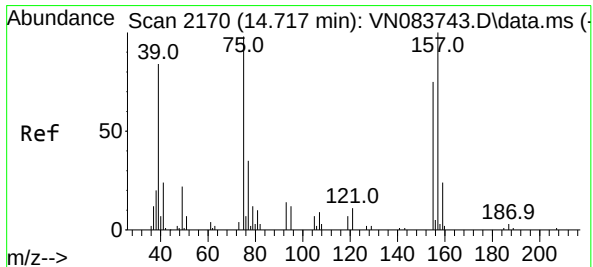
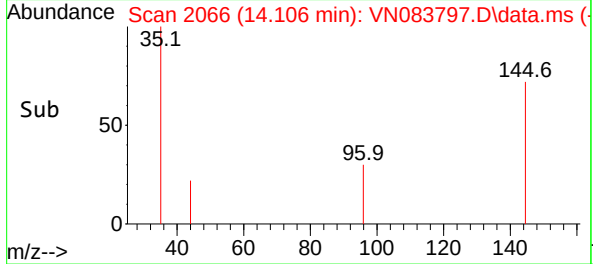
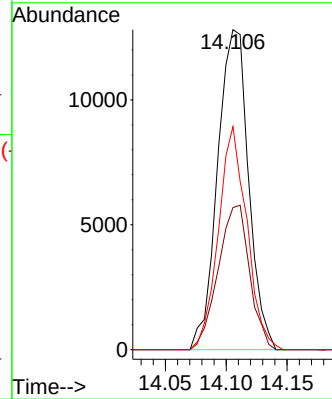
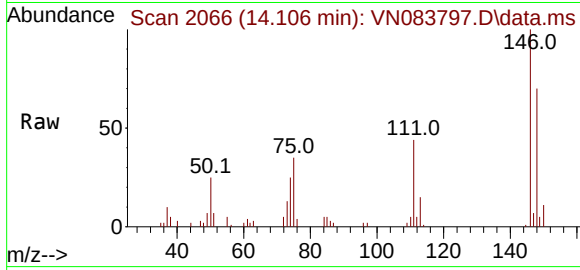




#91
1,2-Dichlorobenzene
Concen: 5.802 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

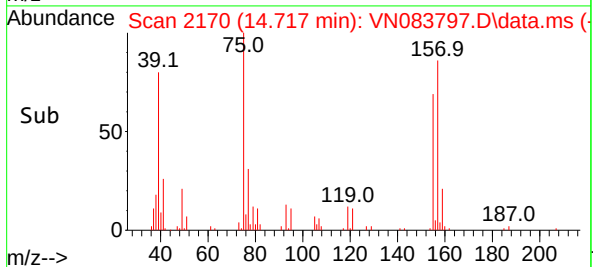
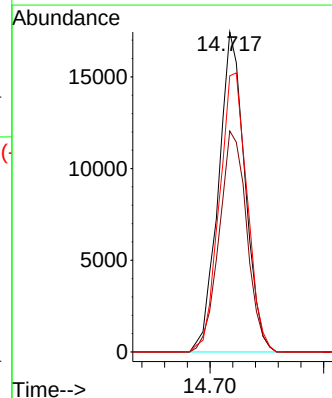
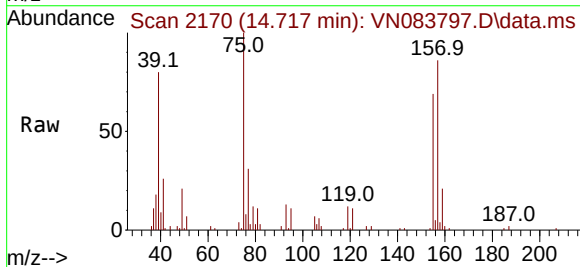
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

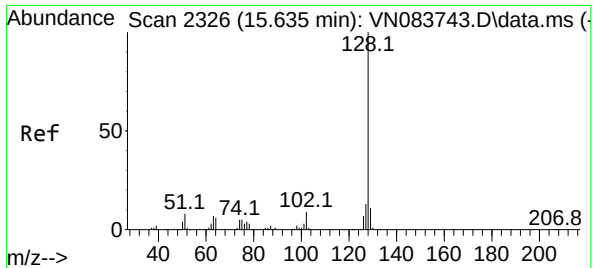
Tgt Ion:146 Resp: 22690
Ion Ratio Lower Upper
146 100
111 45.8 22.8 68.3
148 63.9 32.1 96.5



#92
1,2-Dibromo-3-Chloropropane
Concen: 54.085 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 75 Resp: 28259
Ion Ratio Lower Upper
75 100
155 71.9 35.9 107.7
157 91.3 47.5 142.5





#95

Naphthalene

Concen: 29.704 ug/l

RT: 15.641 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN083797.D

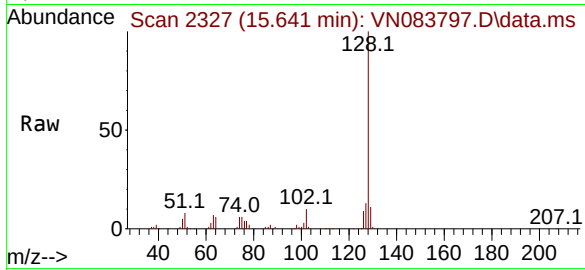
Acq: 11 Sep 2024 15:33

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WPDL



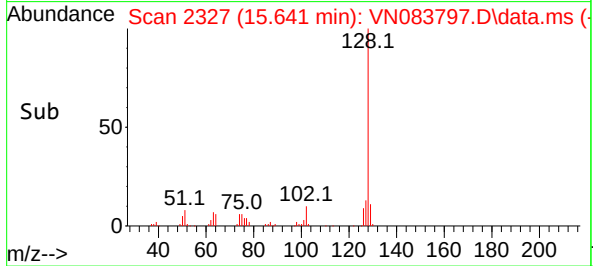
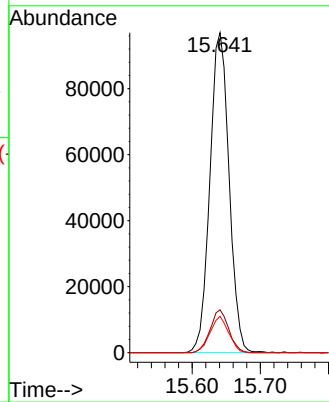
Tgt Ion:128 Resp: 189667

Ion	Ratio	Lower	Upper

128	100		

127	13.1	10.2	15.2

129	11.0	8.7	13.1





CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02
 Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG No.: P3845
 Instrument ID: MSVOA_N Calibration Date(s): 09/10/2024 09/10/2024
 Heated Purge: (Y/N) N Calibration Time(s): 09:08 12:43
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN083742.D		RRF050 = VN083743.D		RRF010 = VN083745.D			
		RRF005 = VN083746.D		RRF001 = VN083747.D		RRF020 = VN083749.D			
COMPOUND	RRF100	RRF050	RRF010	RRF005	RRF001	RRF020	RRF	% RSD	
Dichlorodifluoromethane	0.566	0.601	0.558	0.551	0.591	0.618	0.581	4.6	
Chloromethane	0.573	0.623	0.619	0.657	1.083	0.689	0.707	26.6	
Vinyl Chloride	0.591	0.656	0.597	0.619	0.663	0.692	0.636	6.3	
Ethyl Acetate	0.432	0.458	0.393	0.429	0.385	0.527	0.437	11.8	
Isopropyl Acetate	0.775	0.796	0.688	0.773	0.781	0.942	0.792	10.4	
Bromomethane	0.327	0.359	0.339	0.393		0.410	0.365	9.7	
Chloroethane	0.380	0.431	0.448	0.464	0.470	0.486	0.446	8.5	
Trichlorofluoromethane	0.990	1.065	0.956	1.071	1.167	1.234	1.080	9.7	
1,1,2-Trichlorotrifluoroethane	0.547	0.586	0.522	0.580	0.530	0.672	0.573	9.6	
Tert butyl alcohol	0.089	0.101	0.089	0.110		0.115	0.101	11.7	
Diethyl Ether	0.346	0.367	0.350	0.370	0.321	0.419	0.362	9.1	
1,1-Dichloroethene	0.516	0.559	0.476	0.557	0.511	0.626	0.541	9.6	
Acrolein	0.088	0.104	0.101	0.111		0.094	0.100	8.9	
Acrylonitrile	0.253	0.275	0.243	0.277	0.283	0.316	0.275	9.2	
Acetone	0.288	0.297	0.250	0.283	0.299	0.396	0.302	16.3	
Carbon Disulfide	1.389	1.530	1.357	1.467	1.703	1.630	1.513	9	
Methyl tert-butyl Ether	1.864	2.004	1.768	1.936	1.897	2.272	1.957	8.8	
Methyl Acetate	0.607	0.667	0.601	0.751	1.033	0.748	0.735	21.8	
Methylene Chloride	0.568	0.609	0.567	0.621	0.643	0.703	0.618	8.3	
trans-1,2-Dichloroethene	0.533	0.581	0.522	0.617	0.584	0.640	0.580	8	
Vinyl Acetate	1.485	1.546	1.254	1.394	1.310	1.727	1.453	11.9	
1,1-Dichloroethane	1.069	1.145	1.014	1.165	1.168	1.295	1.143	8.4	
Cyclohexane	0.965	1.017	1.017	1.244		1.206	1.090	11.6	
2-Butanone	0.372	0.393	0.336	0.381	0.410	0.491	0.397	13.2	
Carbon Tetrachloride	0.541	0.561	0.475	0.544	0.515	0.643	0.547	10.2	
2,2-Dichloropropane	1.045	1.093	0.923	0.993	0.998	1.262	1.052	11.2	
cis-1,2-Dichloroethene	0.664	0.717	0.621	0.646	0.686	0.795	0.688	9	
Chloroform	1.145	1.221	1.081	1.224	1.180	1.428	1.213	9.7	
1,1,1-Trichloroethane	1.063	1.137	0.989	1.131	1.081	1.293	1.116	9.1	
Methylcyclohexane	0.568	0.573	0.477	0.504	0.507	0.661	0.548	12.2	

* 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.



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02
 Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG No.: P3845
 Instrument ID: MSVOA_N Calibration Date(s): 09/10/2024 09/10/2024
 Heated Purge: (Y/N) N Calibration Time(s): 09:08 12:43
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN083742.D		RRF050 = VN083743.D		RRF010 = VN083745.D		
		RRF005 = VN083746.D		RRF001 = VN083747.D		RRF020 = VN083749.D		
COMPOUND	RRF100	RRF050	RRF010	RRF005	RRF001	RRF020	RRF	% RSD
1,1-Dichloropropene	0.471	0.472	0.416	0.472	0.503	0.556	0.482	9.5
Benzene	1.400	1.441	1.284	1.386	1.450	1.740	1.450	10.6
1,2-Dichloroethane	0.523	0.546	0.495	0.534	0.497	0.656	0.542	11
Trichloroethene	0.323	0.340	0.300	0.306	0.354	0.392	0.336	10.2
1,2-Dichloropropane	0.338	0.349	0.303	0.345	0.339	0.428	0.350	11.9
Dibromomethane	0.242	0.254	0.221	0.246	0.213	0.298	0.245	12.2
Bromodichloromethane	0.536	0.549	0.461	0.512	0.493	0.636	0.531	11.3
4-Methyl-2-Pentanone	0.424	0.443	0.379	0.416	0.405	0.521	0.431	11.3
Toluene	0.883	0.908	0.773	0.878	0.820	1.060	0.887	11.1
t-1,3-Dichloropropene	0.550	0.559	0.467	0.510	0.519	0.626	0.539	10
cis-1,3-Dichloropropene	0.574	0.586	0.511	0.533	0.510	0.680	0.566	11.4
1,1,2-Trichloroethane	0.315	0.328	0.289	0.323	0.345	0.387	0.331	10
1,3-Dichloropropane	0.557	0.576	0.505	0.583	0.512	0.682	0.569	11.3
2-Chloroethyl Vinyl ether	0.245	0.173	0.177	0.176	0.142	0.187	0.184	18.3
2-Hexanone	0.315	0.329	0.276	0.312	0.277	0.405	0.319	14.8
Dibromochloromethane	0.378	0.392	0.335	0.342	0.337	0.440	0.371	11.1
1,2-Dibromoethane	0.324	0.332	0.285	0.309	0.342	0.391	0.330	10.8
Tetrachloroethene	0.313	0.321	0.302	0.340	0.341	0.377	0.333	8
Chlorobenzene	1.046	1.091	0.973	1.105	1.196	1.257	1.111	9.2
1,1,1,2-Tetrachloroethane	0.375	0.394	0.350	0.367	0.381	0.445	0.385	8.6
Hexachloroethane	0.608	0.642	0.593	0.626	0.699	0.658	0.638	6
Ethyl Benzene	1.985	2.029	1.747	1.889	1.913	2.281	1.974	9
m/p-Xylenes	0.734	0.754	0.652	0.688	0.713	0.856	0.733	9.6
o-Xylene	0.707	0.740	0.654	0.668	0.657	0.831	0.710	9.6
Styrene	1.208	1.244	1.008	1.072	1.100	1.354	1.164	11
Bromoform	0.272	0.278	0.226	0.257	0.223	0.301	0.260	11.8
Isopropylbenzene	3.835	4.076	3.596	3.808	3.759	4.135	3.868	5.2
1,1,2,2-Tetrachloroethane	1.015	1.095	1.064	1.181	1.298	1.165	1.137	8.9
1,2,3-Trichloropropane	0.876	0.942	0.897	1.033	1.124	1.032	0.984	9.7
Bromobenzene	0.841	0.899	0.884	0.947	1.086	0.930	0.931	9.1

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



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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02
 Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG No.: P3845
 Instrument ID: MSVOA_N Calibration Date(s): 09/10/2024 09/10/2024
 Heated Purge: (Y/N) N Calibration Time(s): 09:08 12:43
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF100 = VN083742.D			RRF050 = VN083743.D		RRF010 = VN083745.D		
	RRF005 = VN083746.D			RRF001 = VN083747.D		RRF020 = VN083749.D		
COMPOUND	RRF100	RRF050	RRF010	RRF005	RRF001	RRF020	RRF	% RSD
n-propylbenzene	4.516	4.759	4.074	4.320	4.560	4.776	4.501	6
2-Chlorotoluene	2.700	2.893	2.717	2.887	2.959	3.067	2.870	4.9
1,3,5-Trimethylbenzene	3.204	3.419	3.028	3.122	3.309	3.486	3.261	5.4
4-Chlorotoluene	2.723	2.948	2.670	2.953	2.990	2.998	2.880	5
tert-Butylbenzene	2.796	3.014	2.627	2.726	2.890	3.067	2.853	5.9
1,2,4-Trimethylbenzene	3.225	3.483	3.059	3.184	3.217	3.488	3.276	5.3
sec-Butylbenzene	3.856	4.084	3.438	3.734	3.487	4.106	3.784	7.6
p-Isopropyltoluene	3.237	3.448	2.828	3.128	3.043	3.348	3.172	7
1,3-Dichlorobenzene	1.577	1.741	1.591	1.785	2.096	1.754	1.757	10.7
1,4-Dichlorobenzene	1.586	1.741	1.654	1.824	2.154	1.718	1.779	11.3
n-Butylbenzene	2.866	3.002	2.554	2.687	3.059	2.920	2.848	6.8
1,2-Dichlorobenzene	1.571	1.688	1.543	1.774	1.860	1.740	1.696	7.2
1,2-Dibromo-3-Chloropropane	0.219	0.237	0.214	0.233	0.220	0.237	0.227	4.5
1,2,4-Trichlorobenzene	0.861	0.932	0.848	0.907	1.038	0.875	0.910	7.7
Hexachlorobutadiene	0.352	0.374	0.362	0.373	0.461	0.397	0.386	10.3
Naphthalene	2.727	3.016	2.594	2.782	2.808	2.686	2.769	5.2
1,2,3-Trichlorobenzene	0.815	0.895	0.813	0.875	0.981	0.840	0.870	7.3
1,2-Dichloroethane-d4	0.745	0.849	0.846	0.599		0.732	0.754	13.6
Dibromofluoromethane	0.316	0.340	0.340	0.284		0.321	0.320	7.2
Toluene-d8	1.172	1.271	1.199	0.761		1.130	1.107	18.1
4-Bromofluorobenzene	0.448	0.488	0.458	0.386		0.503	0.457	9.9
N-amyl acetate	1.631	1.739	1.482	1.618	1.687	1.745	1.650	5.9
Allyl chloride	0.934	0.999	0.906	0.913	0.922	1.107	0.964	8.1
trans-1,4-Dichloro-2-butene	0.387	0.411	0.319	0.419		0.390	0.385	10.3
Methacrylonitrile	0.260	0.264	0.211	0.239	0.278	0.299	0.259	11.8
1,4-Dioxane	5.603	6.006	5.432	5.857	7.009	7.204	6.185	12
Methyl methacrylate	0.372	0.378	0.328	0.364	0.364	0.450	0.376	10.7

* 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_N\methods\
 Method File : 82N091024W.M
 Title : SW846 8260
 Last Update : Wed Sep 11 15:18:56 2024
 Response Via : Initial Calibration

Calibration Files

1 =VN083747.D 5 =VN083746.D 10 =VN083745.D 20 =VN083749.D 50 =VN083743.D 100 =VN083742.D

	Compound	1	5	10	20	50	100	Avg	%RSD

1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.591	0.551	0.558	0.618	0.601	0.566	0.581	4.55
3) P	Chloromethane	1.083	0.657	0.619	0.689	0.623	0.573	0.707	26.59
4) C	Vinyl Chloride	0.663	0.619	0.597	0.692	0.656	0.591	0.636	6.32#
5) T	Bromomethane		0.393	0.339	0.410	0.359	0.327	0.365	9.65
6) T	Chloroethane	0.470	0.464	0.448	0.486	0.431	0.380	0.446	8.48
7) T	Trichlorofluor...	1.167	1.071	0.956	1.234	1.065	0.990	1.080	9.73
8) T	Diethyl Ether	0.321	0.370	0.350	0.419	0.367	0.346	0.362	9.10
9) T	1,1,2-Trichlor...	0.530	0.580	0.522	0.672	0.586	0.547	0.573	9.63
10) T	Methyl Iodide		0.717	0.649	0.820	0.759	0.697	0.728	8.87
11) T	Tert butyl alc...		0.110	0.089	0.115	0.101	0.089	0.101	11.71
12) CM	1,1-Dichloroet...	0.511	0.557	0.476	0.626	0.559	0.516	0.541	9.64#
13) T	Acrolein		0.111	0.101	0.094	0.104	0.088	0.100	8.89
14) T	Allyl chloride	0.922	0.913	0.906	1.107	0.999	0.934	0.964	8.09
15) T	Acrylonitrile	0.283	0.277	0.243	0.316	0.275	0.253	0.275	9.19
16) T	Acetone	0.299	0.283	0.250	0.396	0.297	0.288	0.302	16.34
17) T	Carbon Disulfide	1.703	1.467	1.357	1.630	1.530	1.389	1.513	8.95
18) T	Methyl Acetate	1.033	0.751	0.601	0.748	0.667	0.607	0.735	21.82
19) T	Methyl tert-bu...	1.897	1.936	1.768	2.272	2.004	1.864	1.957	8.84
20) T	Methylene Chlo...	0.643	0.621	0.567	0.703	0.609	0.568	0.618	8.25
21) T	trans-1,2-Dich...	0.584	0.617	0.522	0.640	0.581	0.533	0.580	7.95
22) T	Diisopropyl ether	1.858	1.960	1.788	2.305	2.054	1.936	1.984	9.15
23) T	Vinyl Acetate	1.310	1.394	1.254	1.727	1.546	1.485	1.453	11.86
24) P	1,1-Dichloroet...	1.168	1.165	1.014	1.295	1.145	1.069	1.143	8.42
25) T	2-Butanone	0.410	0.381	0.336	0.491	0.393	0.372	0.397	13.16
26) T	2,2-Dichloropr...	0.998	0.993	0.923	1.262	1.093	1.045	1.052	11.17
27) T	cis-1,2-Dichlo...	0.686	0.646	0.621	0.795	0.717	0.664	0.688	8.97
28) T	Bromochloromet...	0.420	0.538	0.474	0.454	0.525	0.477	0.481	9.10
29) T	Tetrahydrofuran	0.230	0.231	0.211	0.274	0.242	0.223	0.235	9.23
30) C	Chloroform	1.180	1.224	1.081	1.428	1.221	1.145	1.213	9.72#
31) T	Cyclohexane		1.244	1.017	1.206	1.017	0.965	1.090	11.56
32) T	1,1,1-Trichlor...	1.081	1.131	0.989	1.293	1.137	1.063	1.116	9.14
33) S	1,2-Dichloroet...		0.599	0.846	0.732	0.849	0.745	0.754	13.63
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.284	0.340	0.321	0.340	0.316	0.320	7.19
36) T	1,1-Dichloropr...	0.503	0.472	0.416	0.556	0.472	0.471	0.482	9.54
37) T	Ethyl Acetate	0.385	0.429	0.393	0.527	0.458	0.432	0.437	11.75
38) T	Carbon Tetrach...	0.515	0.544	0.475	0.643	0.561	0.541	0.547	10.24
39) T	Methylcyclohexane	0.507	0.504	0.477	0.661	0.573	0.568	0.548	12.24
40) TM	Benzene	1.450	1.386	1.284	1.740	1.441	1.400	1.450	10.60
41) T	Methacrylonitrile	0.278	0.239	0.211	0.299	0.264	0.260	0.259	11.84
42) TM	1,2-Dichloroet...	0.497	0.534	0.495	0.656	0.546	0.523	0.542	10.97
43) T	Isopropyl Acetate	0.781	0.773	0.688	0.942	0.796	0.775	0.792	10.43
44) TM	Trichloroethene	0.354	0.306	0.300	0.392	0.340	0.323	0.336	10.22
45) C	1,2-Dichloropr...	0.339	0.345	0.303	0.428	0.349	0.338	0.350	11.85#
46) T	Dibromomethane	0.213	0.246	0.221	0.298	0.254	0.242	0.245	12.22
47) T	Bromodichlorom...	0.493	0.512	0.461	0.636	0.549	0.536	0.531	11.32
48) T	Methyl methacr...	0.364	0.364	0.328	0.450	0.378	0.372	0.376	10.68
49) T	1,4-Dioxane	0.007	0.006	0.005	0.007	0.006	0.006	0.006	12.02
50) S	Toluene-d8		0.761	1.199	1.130	1.271	1.172	1.107	18.06
51) T	4-Methyl-2-Pen...	0.405	0.416	0.379	0.521	0.443	0.424	0.431	11.29
52) CM	Toluene	0.820	0.878	0.773	1.060	0.908	0.883	0.887	11.07#
53) T	t-1,3-Dichloro...	0.519	0.510	0.467	0.626	0.559	0.550	0.539	10.04
54) T	cis-1,3-Dichlo...	0.510	0.533	0.511	0.680	0.586	0.574	0.566	11.38
55) T	1,1,2-Trichlor...	0.345	0.323	0.289	0.387	0.328	0.315	0.331	9.98
56) T	Ethyl methacry...	0.423	0.475	0.439	0.626	0.557	0.537	0.509	15.23

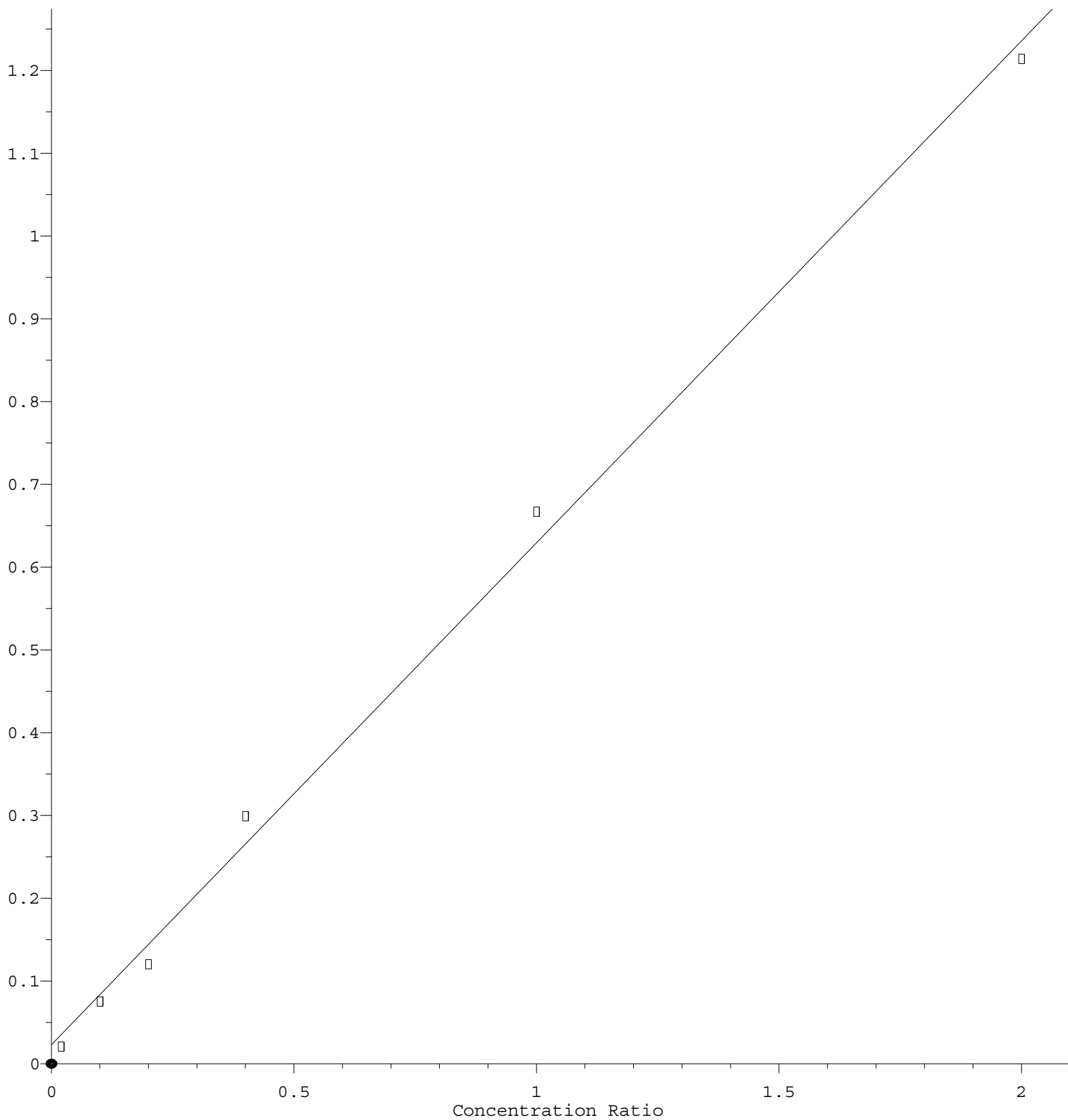
Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N091024W.M

57)	T	1,3-Dichloropr...	0.512	0.583	0.505	0.682	0.576	0.557	0.569	11.26
58)	T	2-Chloroethyl ...	0.142	0.176	0.177	0.187	0.173	0.245	0.184	18.30
59)	T	2-Hexanone	0.277	0.312	0.276	0.405	0.329	0.315	0.319	14.75
60)	T	Dibromochlorom...	0.337	0.342	0.335	0.440	0.392	0.378	0.371	11.13
61)	T	1,2-Dibromoethane	0.342	0.309	0.285	0.391	0.332	0.324	0.330	10.82
62)	S	4-Bromofluorob...	0.386	0.458	0.503	0.488	0.448	0.457		9.93
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.341	0.340	0.302	0.377	0.321	0.313	0.333	8.01
65)	PM	Chlorobenzene	1.196	1.105	0.973	1.257	1.091	1.046	1.111	9.20
66)	T	1,1,1,2-Tetrac...	0.381	0.367	0.350	0.445	0.394	0.375	0.385	8.55
67)	C	Ethyl Benzene	1.913	1.889	1.747	2.281	2.029	1.985	1.974	9.05#
68)	T	m/p-Xylenes	0.713	0.688	0.652	0.856	0.754	0.734	0.733	9.58
69)	T	o-Xylene	0.657	0.668	0.654	0.831	0.740	0.707	0.710	9.63
70)	T	Styrene	1.100	1.072	1.008	1.354	1.244	1.208	1.164	10.95
71)	P	Bromoform	0.223	0.257	0.226	0.301	0.278	0.272	0.260	11.78
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.759	3.808	3.596	4.135	4.076	3.835	3.868	5.24
74)	T	N-amyl acetate	1.687	1.618	1.482	1.745	1.739	1.631	1.650	5.92
75)	P	1,1,2,2-Tetrac...	1.298	1.181	1.064	1.165	1.095	1.015	1.137	8.86
76)	T	1,2,3-Trichlor...	1.124	1.033	0.897	1.041	0.950	1.008	1.009	7.79
77)	T	Bromobenzene	1.086	0.947	0.884	0.930	0.899	0.841	0.931	9.09
78)	T	n-propylbenzene	4.560	4.320	4.074	4.776	4.759	4.516	4.501	5.97
79)	T	2-Chlorotoluene	2.959	2.887	2.717	3.067	2.893	2.700	2.870	4.93
80)	T	1,3,5-Trimethy...	3.309	3.122	3.028	3.486	3.419	3.204	3.261	5.39
81)	T	trans-1,4-Dich...	0.419	0.319	0.390	0.411	0.387	0.385		10.29
82)	T	4-Chlorotoluene	2.990	2.953	2.670	2.998	2.948	2.723	2.880	5.03
83)	T	tert-Butylbenzene	2.890	2.726	2.627	3.067	3.014	2.796	2.853	5.94
84)	T	1,2,4-Trimethy...	3.217	3.184	3.059	3.488	3.483	3.225	3.276	5.28
85)	T	sec-Butylbenzene	3.487	3.734	3.438	4.106	4.084	3.856	3.784	7.56
86)	T	p-Isopropyltol...	3.043	3.128	2.828	3.348	3.448	3.237	3.172	7.02
87)	T	1,3-Dichlorobe...	2.096	1.785	1.591	1.754	1.741	1.577	1.757	10.66
88)	T	1,4-Dichlorobe...	2.154	1.824	1.654	1.718	1.741	1.586	1.779	11.26
89)	T	n-Butylbenzene	3.059	2.687	2.554	2.920	3.002	2.866	2.848	6.77
90)	T	Hexachloroethane	0.699	0.626	0.593	0.658	0.642	0.608	0.638	5.97
91)	T	1,2-Dichlorobe...	1.860	1.774	1.543	1.740	1.688	1.571	1.696	7.19
92)	T	1,2-Dibromo-3-...	0.220	0.233	0.214	0.237	0.237	0.219	0.227	4.47
93)	T	1,2,4-Trichlor...	1.038	0.907	0.848	0.875	0.932	0.861	0.910	7.67
94)	T	Hexachlorobuta...	0.461	0.373	0.362	0.397	0.374	0.352	0.386	10.25
95)	T	Naphthalene	2.808	2.782	2.594	2.686	3.016	2.727	2.769	5.16
96)	T	1,2,3-Trichlor...	0.981	0.875	0.813	0.840	0.895	0.815	0.870	7.31

(#) = Out of Range

Methyl Acetate

Response Ratio



$$\text{Response} = 6.063\text{e-}001 * \text{Amt} + 2.337\text{e-}002$$

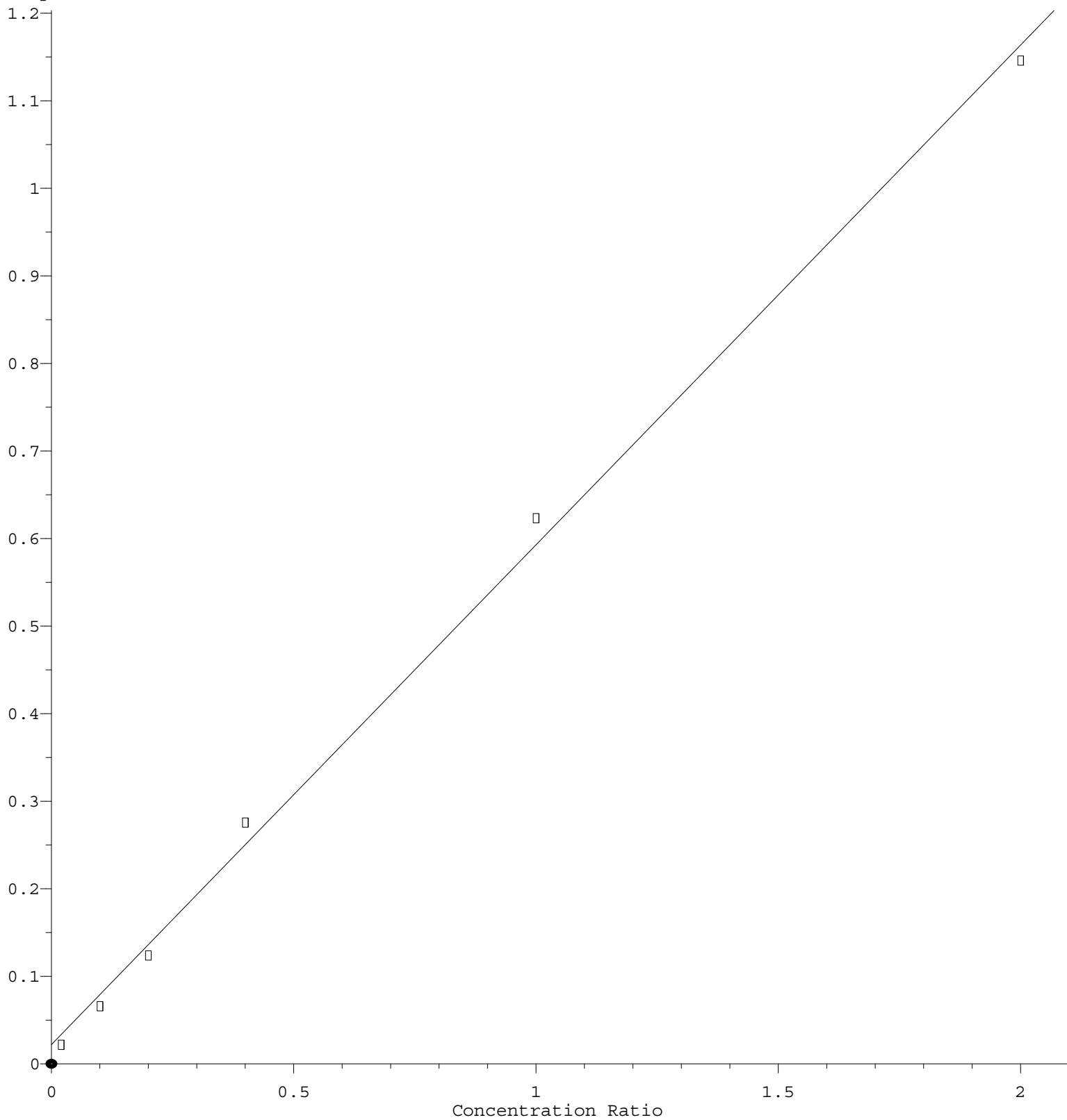
Coef of Det (r^2) = 0.996387 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N091024W.M

Calibration Table Last Updated: Wed Sep 11 15:18:56 2024

Chloromethane

Response Ratio



$$\text{Response} = 5.711\text{e-}001 * \text{Amt} + 2.189\text{e-}002$$

Coef of Det (r^2) = 0.997537 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N091024W.M

Calibration Table Last Updated: Wed Sep 11 15:18:56 2024

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
 Data File : VN083742.D
 Acq On : 10 Sep 2024 09:08
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/11/2024
 Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:53:43 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 01:38:19 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	179260	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	305334	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	267844	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	131982	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	266987	98.775	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 197.540%#			
35) Dibromofluoromethane	8.159	113	192905	98.687	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 197.380%#			
50) Toluene-d8	10.565	98	715598	105.896	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 211.800%#			
62) 4-Bromofluorobenzene	12.847	95	273293	98.025	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 196.040%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	202748	97.390	ug/l	99
3) Chloromethane	2.359	50	205418	98.414	ug/l	97
4) Vinyl Chloride	2.518	62	211906	92.865	ug/l	98
5) Bromomethane	2.906	94	117285	89.520	ug/l	99
6) Chloroethane	3.077	64	136074	85.956	ug/l	97
7) Trichlorofluoromethane	3.471	101	354762	91.591	ug/l	99
8) Diethyl Ether	3.953	74	124053	95.544	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.359	101	195938	95.438	ug/l	98
10) Methyl Iodide	4.577	142	249832	95.682	ug/l	96
11) Tert butyl alcohol	5.536	59	159849	441.627	ug/l	100
12) 1,1-Dichloroethene	4.324	96	185025	95.429	ug/l	93
13) Acrolein	4.171	56	158000	442.417	ug/l	99
14) Allyl chloride	5.012	41	334937	96.948	ug/l	98
15) Acrylonitrile	5.718	53	454054	461.277	ug/l	99
16) Acetone	4.424	43	515707	475.936	ug/l	98
17) Carbon Disulfide	4.700	76	497982	91.817	ug/l	100
18) Methyl Acetate	5.018	43	217598	98.170	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	668351	95.259	ug/l	100
20) Methylene Chloride	5.271	84	203805	91.913	ug/l	92
21) trans-1,2-Dichloroethene	5.783	96	191098	91.967	ug/l	95
22) Diisopropyl ether	6.665	45	694175	97.608	ug/l	99
23) Vinyl Acetate	6.600	43	2661752	511.076	ug/l	99
24) 1,1-Dichloroethane	6.565	63	383257	93.539	ug/l	99
25) 2-Butanone	7.483	43	667006	468.347	ug/l	99
26) 2,2-Dichloropropane	7.483	77	374693	99.301	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	237908	96.450	ug/l	100
28) Bromochloromethane	7.812	49	171038	99.126	ug/l	97
29) Tetrahydrofuran	7.835	42	398869	473.660	ug/l	99
30) Chloroform	7.965	83	410584	94.390	ug/l	100
31) Cyclohexane	8.253	56	346019	88.574	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	380933	95.240	ug/l	99
36) 1,1-Dichloropropene	8.365	75	287609	97.756	ug/l	99
37) Ethyl Acetate	7.559	43	263623	98.714	ug/l	98
38) Carbon Tetrachloride	8.359	117	330457	99.004	ug/l	99
39) Methylcyclohexane	9.600	83	346860	103.576	ug/l	99
40) Benzene	8.600	78	854656	96.512	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
 Data File : VN083742.D
 Acq On : 10 Sep 2024 09:08
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:53:43 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M

Quant Title : SW846 8260

QLast Update : Wed Sep 11 01:38:19 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	158600	100.410	ug/l	97
42) 1,2-Dichloroethane	8.665	62	319551	96.572	ug/l	99
43) Isopropyl Acetate	8.688	43	473198	97.780	ug/l	97
44) Trichloroethene	9.347	130	197536	96.327	ug/l	93
45) 1,2-Dichloropropane	9.618	63	206374	96.423	ug/l	100
46) Dibromomethane	9.706	93	147957	98.695	ug/l	99
47) Bromodichloromethane	9.888	83	327336	100.891	ug/l	98
48) Methyl methacrylate	9.677	41	227071	98.898	ug/l	98
49) 1,4-Dioxane	9.694	88	68427	1811.632	ug/l #	99
51) 4-Methyl-2-Pentanone	10.447	43	1295313	491.701	ug/l	99
52) Toluene	10.629	92	539024	99.513	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	335958	102.158	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	350699	101.521	ug/l	97
55) 1,1,2-Trichloroethane	11.018	97	192101	94.997	ug/l	99
56) Ethyl methacrylate	10.871	69	327895	105.392	ug/l	99
57) 1,3-Dichloropropane	11.159	76	340321	97.921	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	747188	666.516	ug/l	97
59) 2-Hexanone	11.194	43	963063	494.210	ug/l	99
60) Dibromochloromethane	11.359	129	230885	102.022	ug/l	100
61) 1,2-Dibromoethane	11.471	107	197595	97.978	ug/l	99
64) Tetrachloroethene	11.106	164	167917	94.271	ug/l	97
65) Chlorobenzene	11.888	112	560440	94.145	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	201130	97.460	ug/l	99
67) Ethyl Benzene	11.965	91	1063437	100.561	ug/l	98
68) m/p-Xylenes	12.070	106	786134	200.232	ug/l	99
69) o-Xylene	12.394	106	378786	99.660	ug/l	99
70) Styrene	12.412	104	646938	103.715	ug/l	100
71) Bromoform	12.576	173	145739	104.798	ug/l #	100
73) Isopropylbenzene	12.694	105	1012206	99.129	ug/l	99
74) N-amyl acetate	12.494	43	430629	98.846	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	268013	89.333	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	231193m	86.812	ug/l	
77) Bromobenzene	12.976	156	221922	90.289	ug/l	99
78) n-propylbenzene	13.035	91	1192155	100.345	ug/l	99
79) 2-Chlorotoluene	13.123	91	712679	94.060	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	845837	98.252	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	102156	100.466	ug/l	96
82) 4-Chlorotoluene	13.217	91	718771	94.532	ug/l	99
83) tert-Butylbenzene	13.435	119	738032	97.989	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	851267	98.439	ug/l	100
85) sec-Butylbenzene	13.617	105	1017747	101.889	ug/l	100
86) p-Isopropyltoluene	13.729	119	854481	102.048	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	416366	89.760	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	418608	89.123	ug/l	99
89) n-Butylbenzene	14.053	91	756542	100.632	ug/l	100
90) Hexachloroethane	14.335	117	160428	95.312	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	414582	92.608	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	57895	96.804	ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	227276	94.607	ug/l	99
94) Hexachlorobutadiene	15.500	225	93025	91.182	ug/l	99
95) Naphthalene	15.641	128	719851	98.492	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	215058	93.670	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083742.D
Acq On : 10 Sep 2024 09:08
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:53:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

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

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

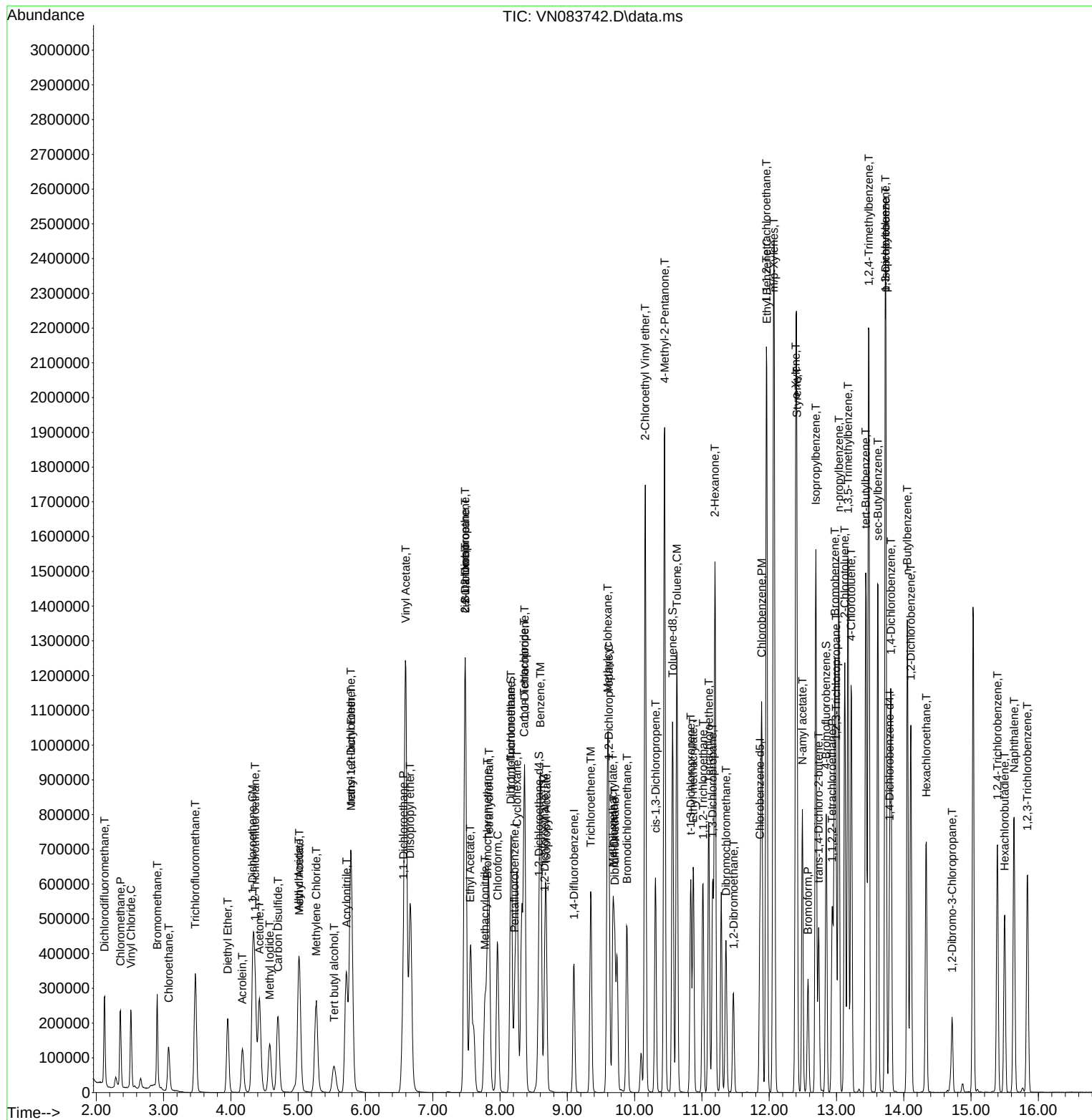
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083742.D
Acq On : 10 Sep 2024 09:08
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

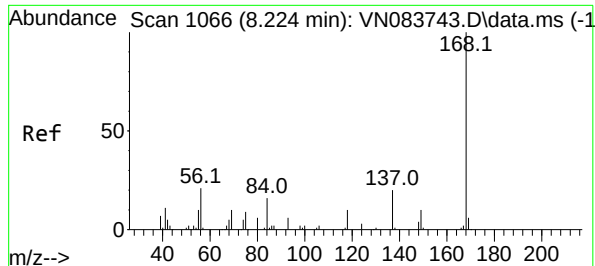
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:53:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.006 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:168 Resp: 179260

Ion Ratio Lower Upper

168 100

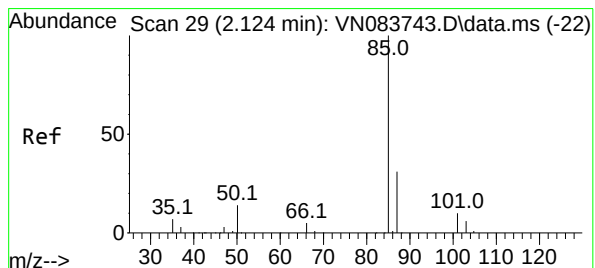
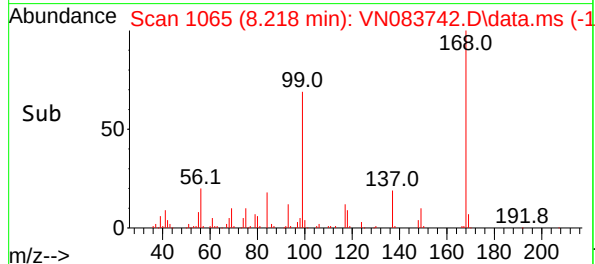
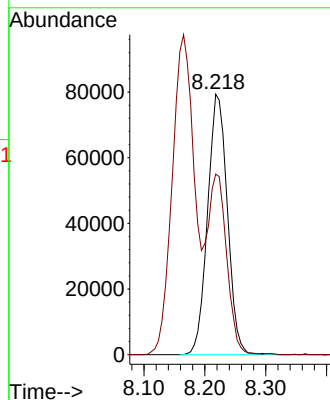
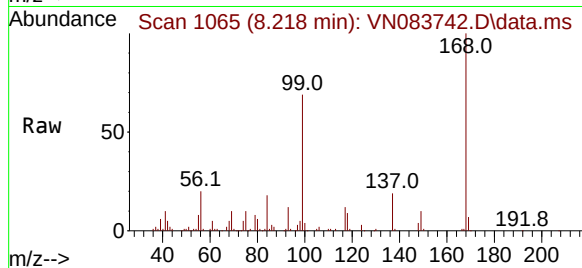
99 69.3 54.2 81.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#2

Dichlorodifluoromethane

Concen: 97.390 ug/l

RT: 2.124 min Scan# 29

Delta R.T. -0.000 min

Lab File: VN083742.D

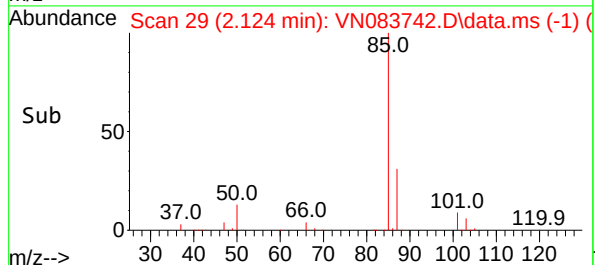
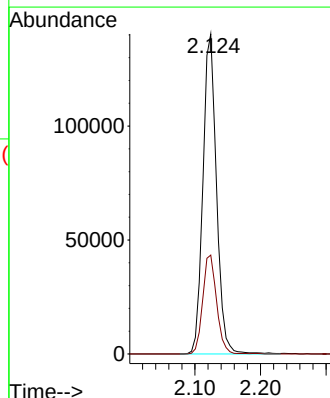
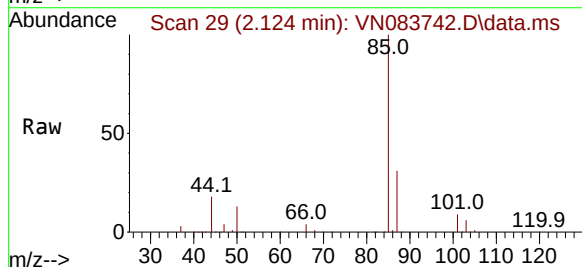
Acq: 10 Sep 2024 09:08

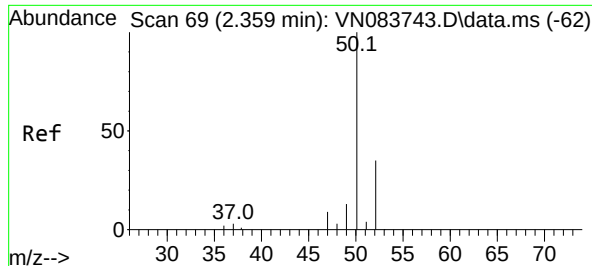
Tgt Ion: 85 Resp: 202748

Ion Ratio Lower Upper

85 100

87 30.9 15.7 47.0





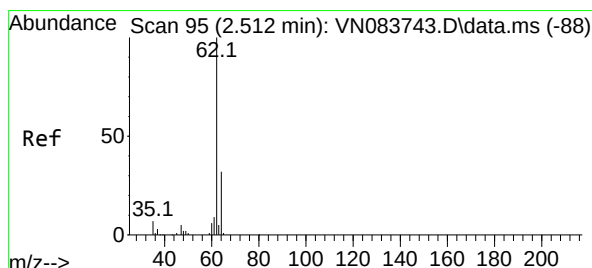
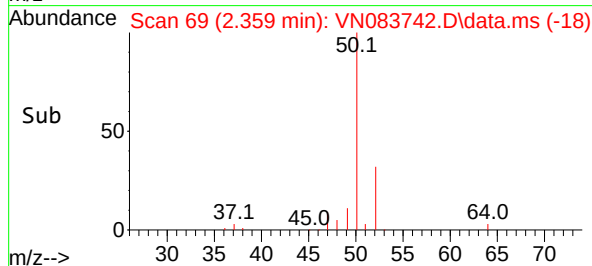
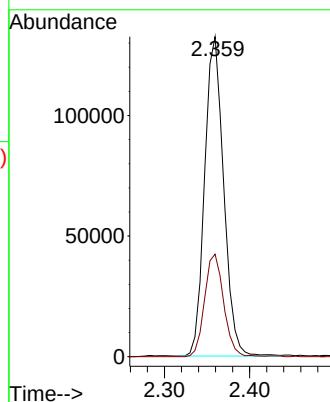
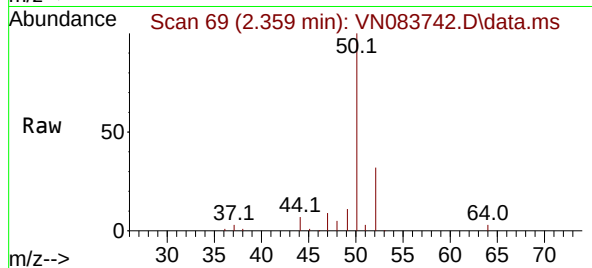
#3
Chloromethane
Concen: 98.414 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 205418
Ion Ratio Lower Upper
50 100
52 32.1 27.2 40.8

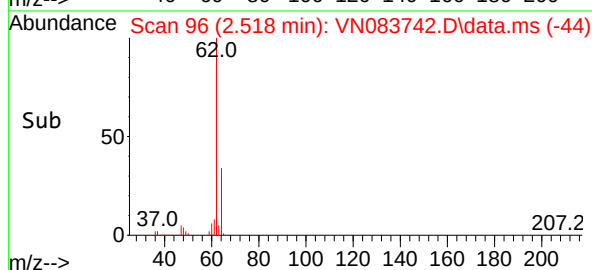
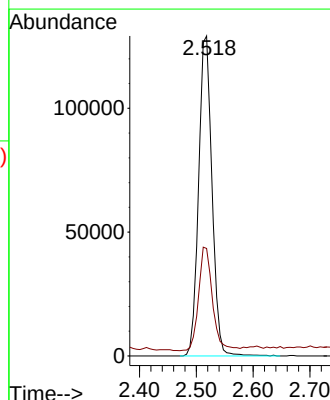
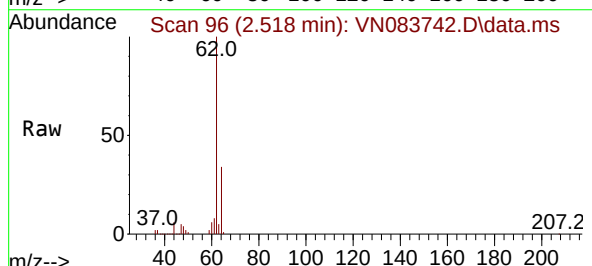
Manual Integrations
APPROVED

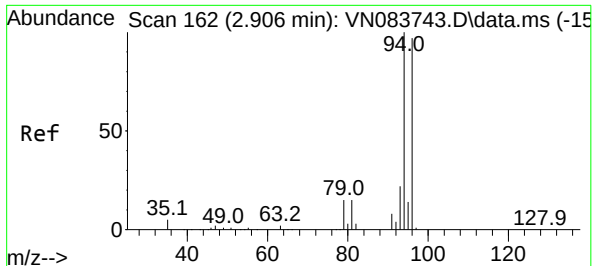
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#4
Vinyl Chloride
Concen: 92.865 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 62 Resp: 211906
Ion Ratio Lower Upper
62 100
64 31.9 24.7 37.1





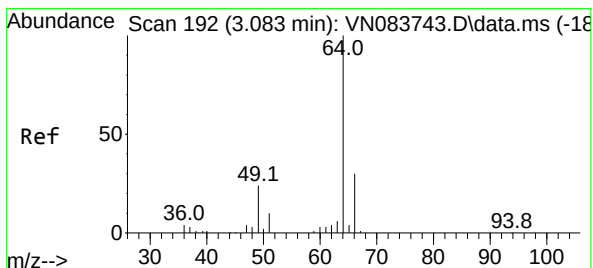
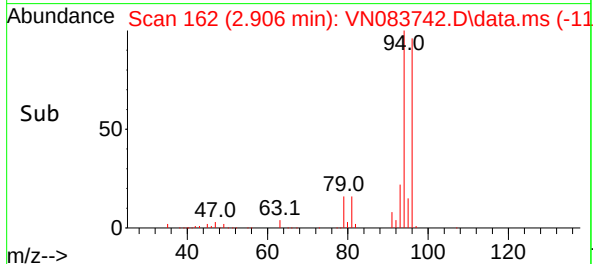
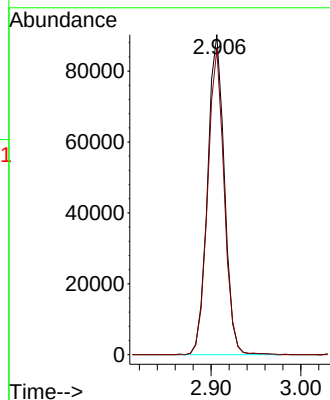
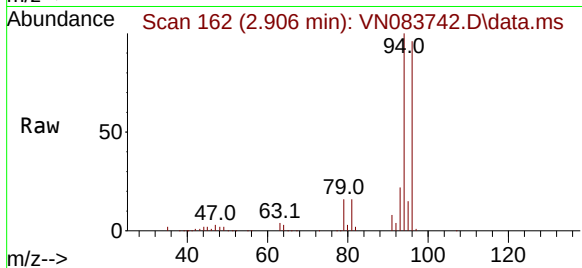
#5
Bromomethane
Concen: 89.520 ug/l
RT: 2.906 min Scan# 110
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 117285
Ion Ratio Lower Upper
94 100
96 95.5 76.0 114.0

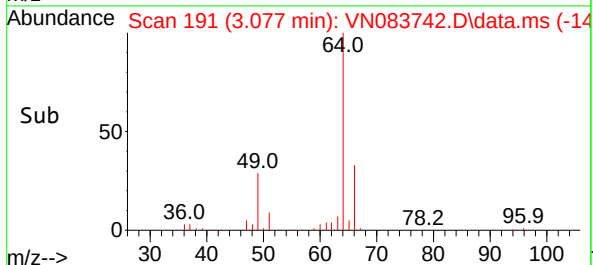
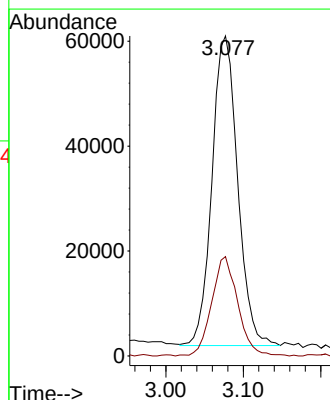
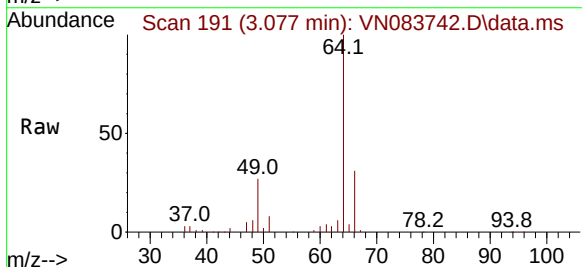
Manual Integrations
APPROVED

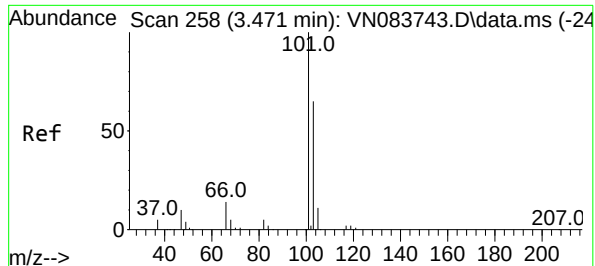
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#6
Chloroethane
Concen: 85.956 ug/l
RT: 3.077 min Scan# 191
Delta R.T. -0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

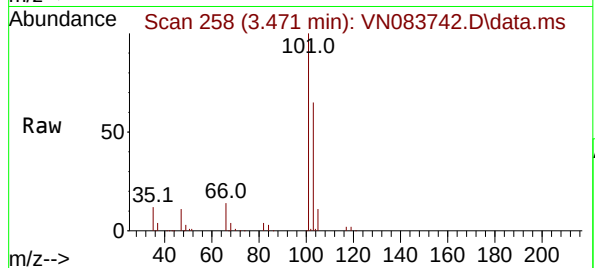
Tgt Ion: 64 Resp: 136074
Ion Ratio Lower Upper
64 100
66 31.8 23.9 35.9





#7
Trichlorofluoromethane
Concen: 91.591 ug/l
RT: 3.471 min Scan# 258
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

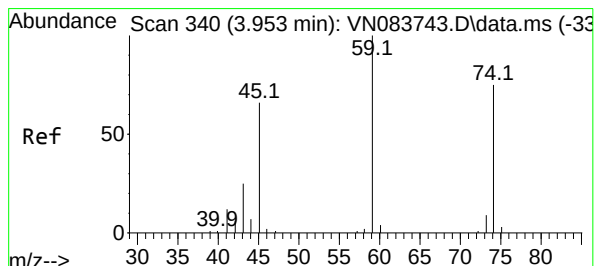
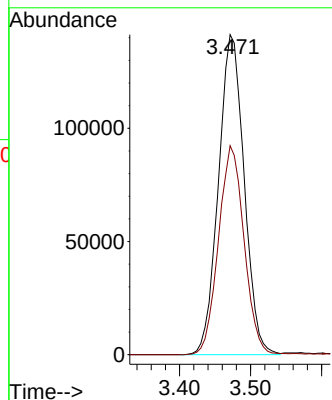
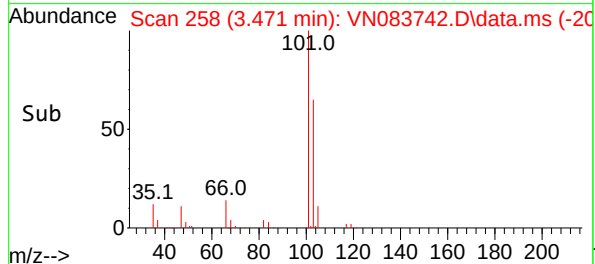
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:101 Resp: 354762
Ion Ratio Lower Upper
101 100
103 65.3 51.4 77.0

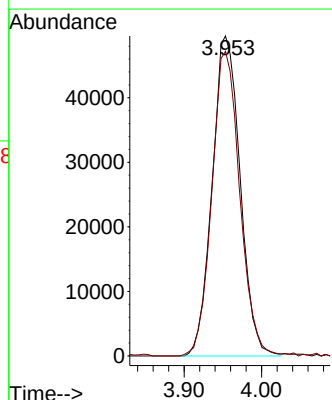
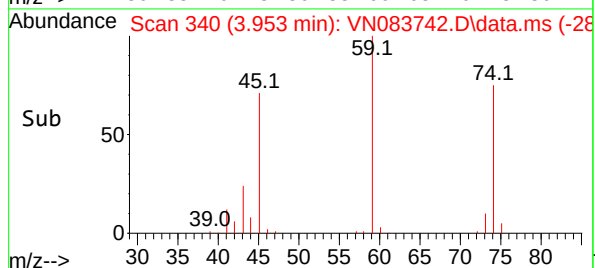
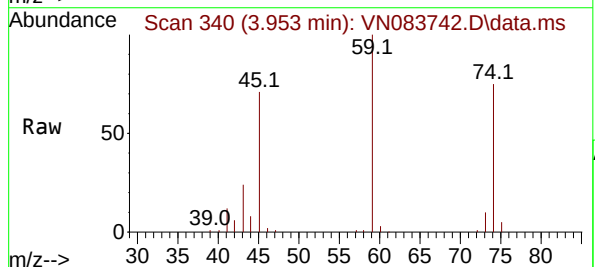
Manual Integrations
APPROVED

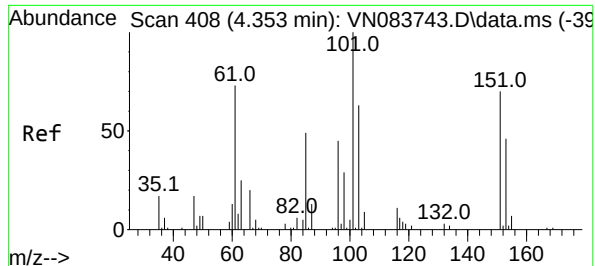
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#8
Diethyl Ether
Concen: 95.544 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 74 Resp: 124053
Ion Ratio Lower Upper
74 100
45 95.4 46.7 140.1





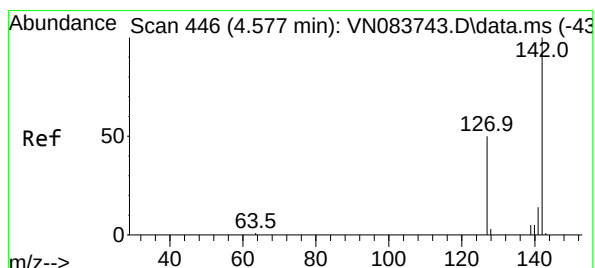
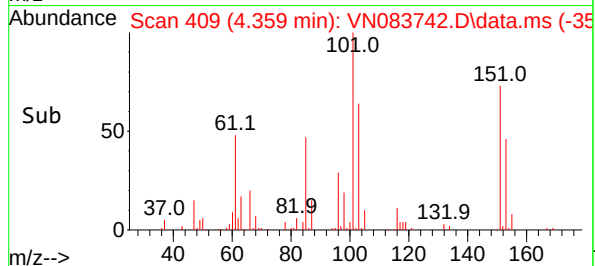
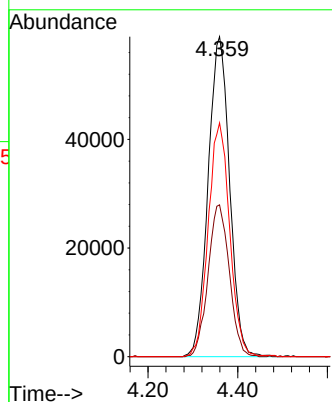
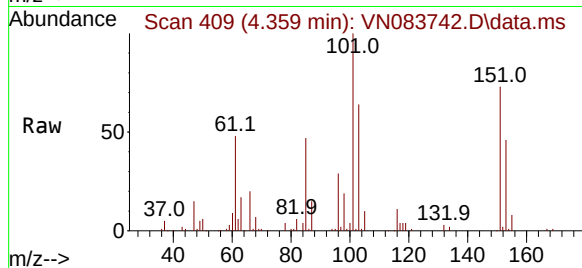
#9
1,1,2-Trichlorotrifluoroethane
Concen: 95.438 ug/l
RT: 4.359 min Scan# 408
Delta R.T. 0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Instrument :
MSVOA_N
Client Sample Id :
VSTDICC100

Tgt Ion:101 Resp: 195938
Ion Ratio Lower Upper
101 100
85 47.0 36.2 54.4
151 72.9 57.7 86.5

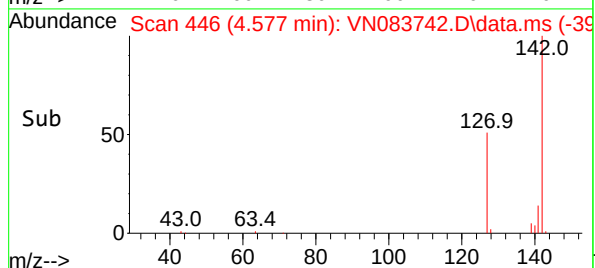
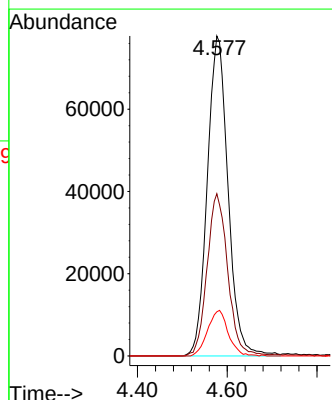
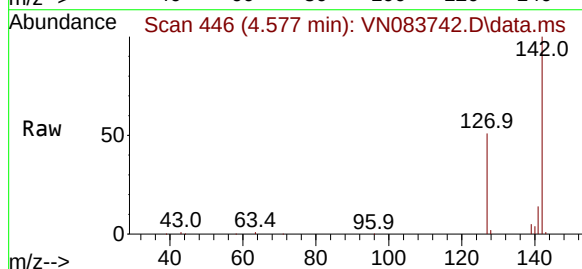
Manual Integrations
APPROVED

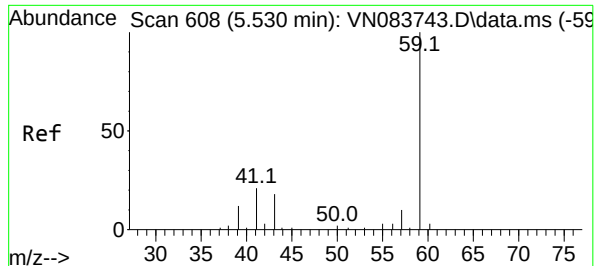
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#10
Methyl Iodide
Concen: 95.682 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:142 Resp: 249832
Ion Ratio Lower Upper
142 100
127 50.7 37.5 56.3
141 13.8 11.0 16.4





#11

Tert butyl alcohol

Concen: 441.627 ug/l

RT: 5.536 min Scan# 608

Delta R.T. 0.006 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 59 Resp: 159849

Ion Ratio Lower Upper

59 100

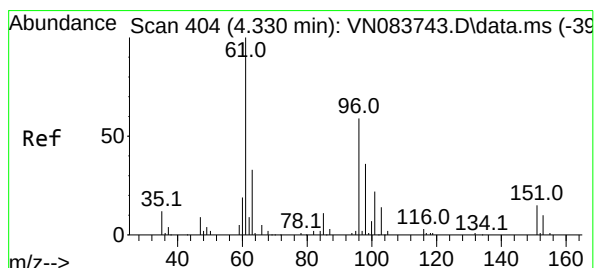
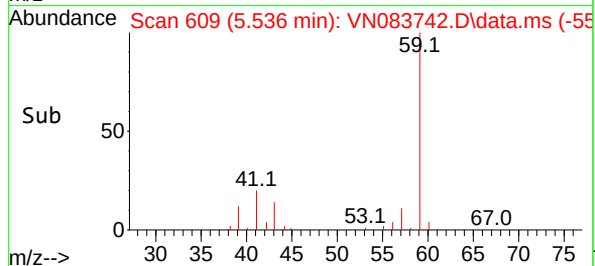
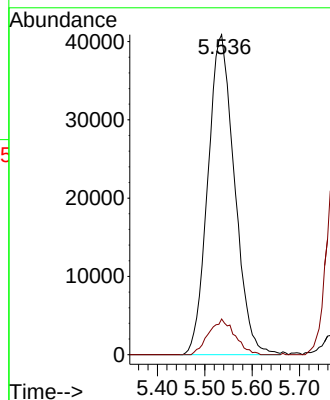
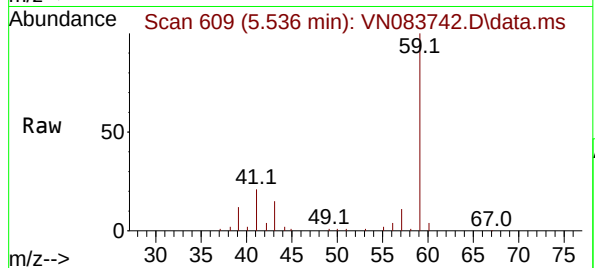
57 10.9 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#12

1,1-Dichloroethene

Concen: 95.429 ug/l

RT: 4.324 min Scan# 403

Delta R.T. -0.006 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

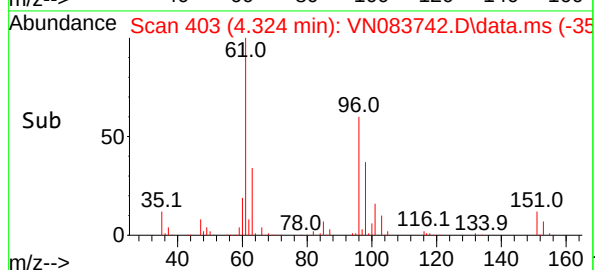
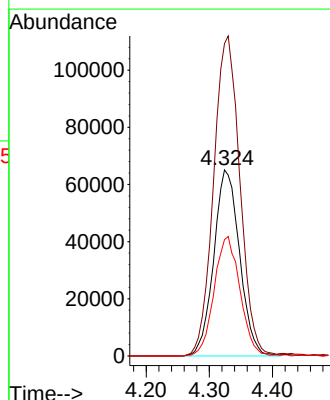
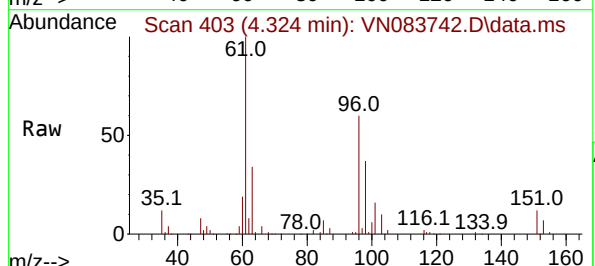
Tgt Ion: 96 Resp: 185025

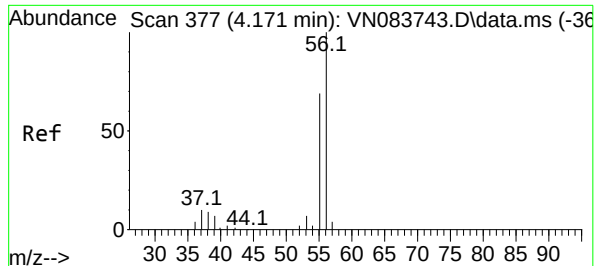
Ion Ratio Lower Upper

96 100

61 168.0 143.4 215.0

98 62.6 52.7 79.1





#13

Acrolein

Concen: 442.417 ug/l

RT: 4.171 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 158000

Ion Ratio Lower Upper

56 100

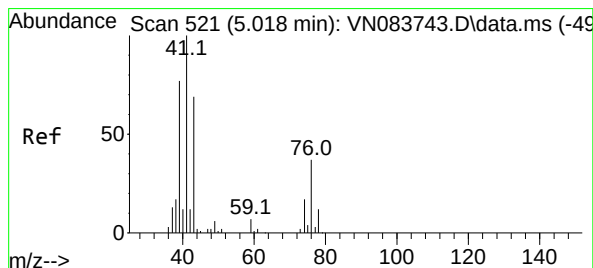
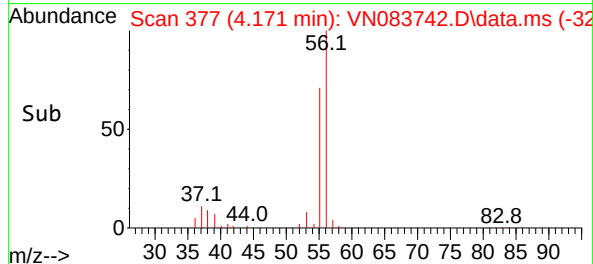
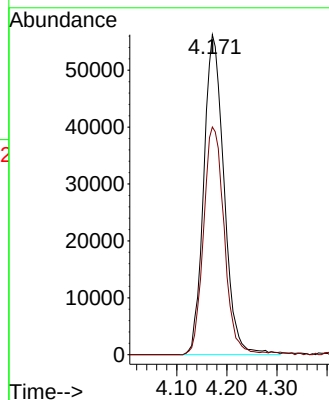
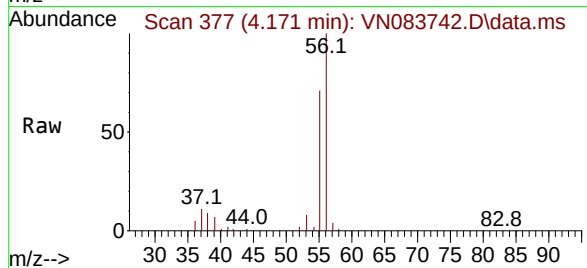
55 72.1 58.2 87.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#14

Allyl chloride

Concen: 96.948 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.006 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

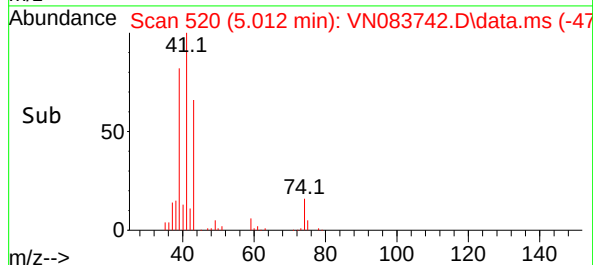
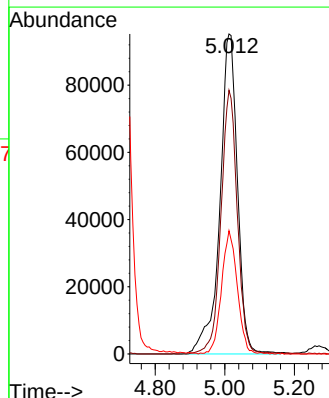
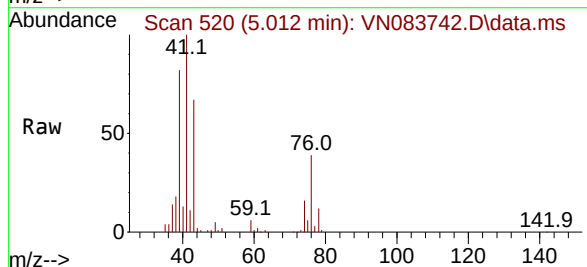
Tgt Ion: 41 Resp: 334937

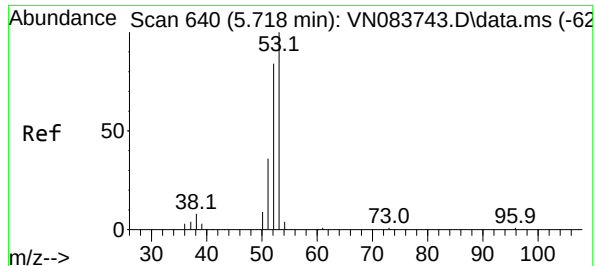
Ion Ratio Lower Upper

41 100

39 76.4 59.3 88.9

76 34.4 27.7 41.5





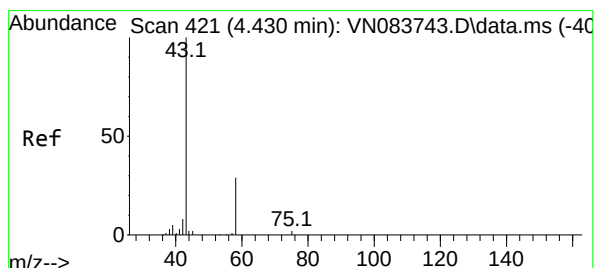
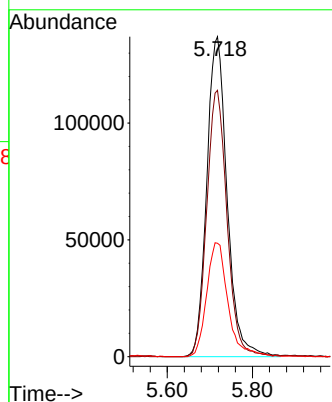
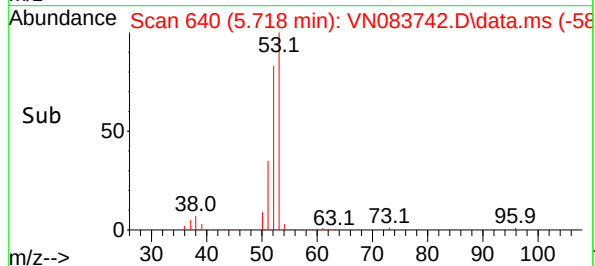
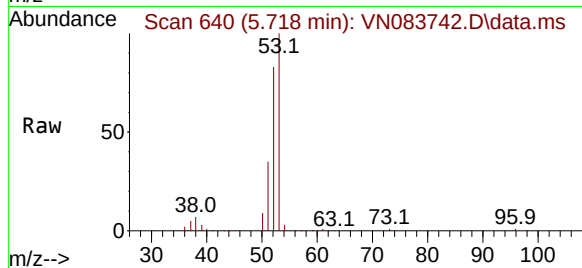
#15
Acrylonitrile
Concen: 461.277 ug/l
RT: 5.718 min Scan# 640
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 454054
Ion Ratio Lower Upper
53 100
52 83.2 66.1 99.1
51 37.3 29.6 44.4

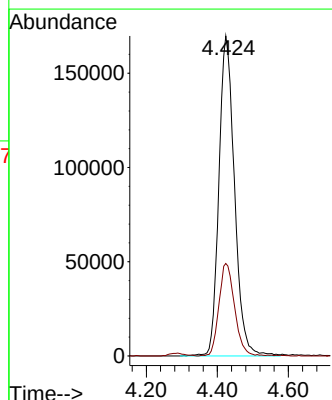
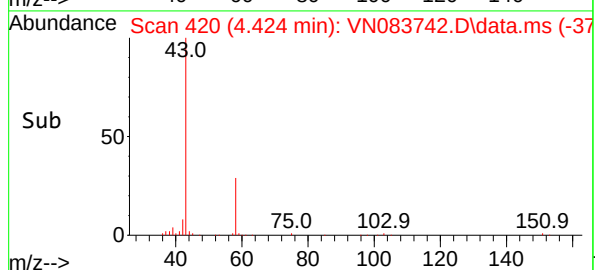
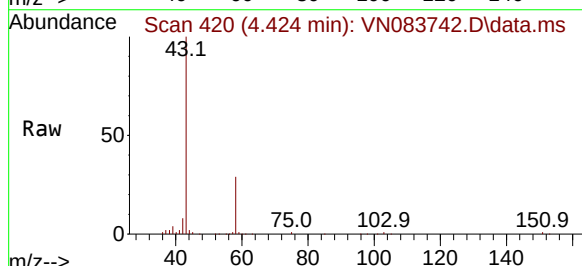
Manual Integrations
APPROVED

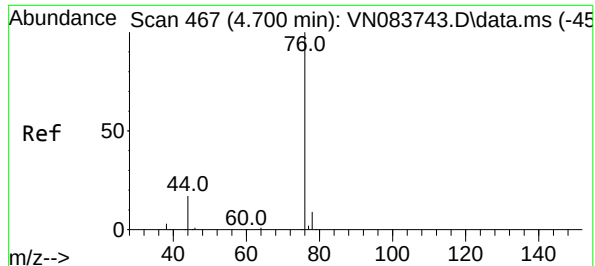
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#16
Acetone
Concen: 475.936 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

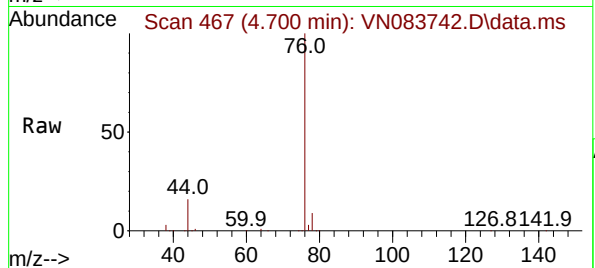
Tgt Ion: 43 Resp: 515707
Ion Ratio Lower Upper
43 100
58 28.7 23.7 35.5





#17
Carbon Disulfide
Concen: 91.817 ug/l
RT: 4.700 min Scan# 40
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

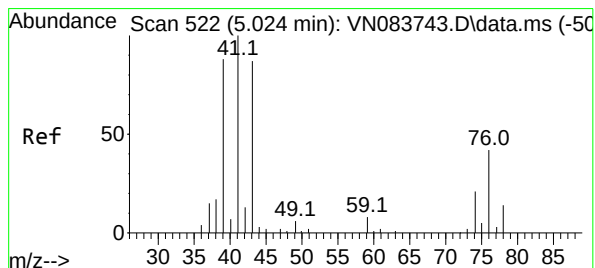
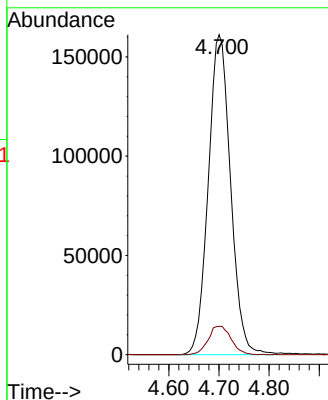
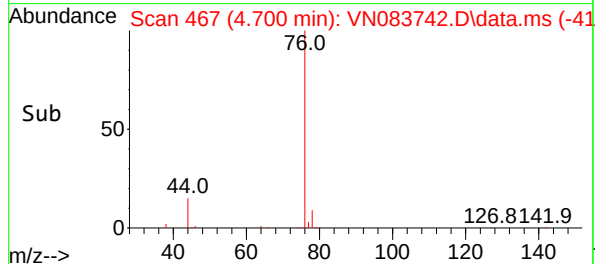
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 76 Resp: 49798
Ion Ratio Lower Upper
76 100
78 8.9 7.1 10.7

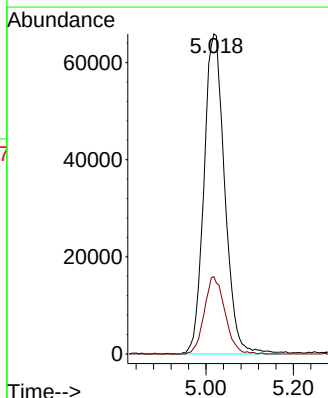
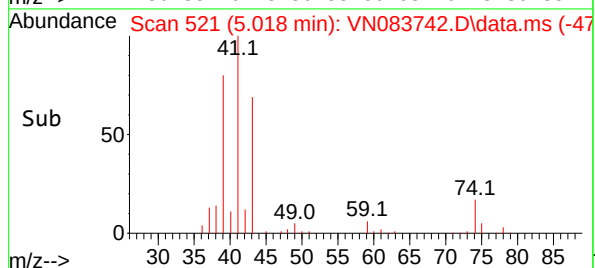
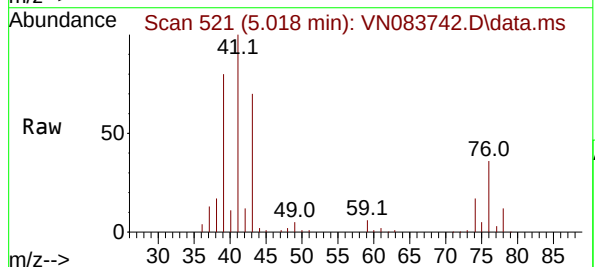
Manual Integrations
APPROVED

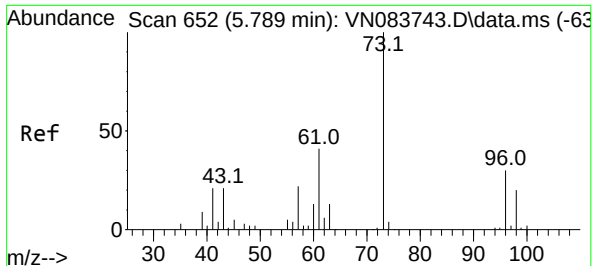
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#18
Methyl Acetate
Concen: 98.170 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 43 Resp: 217598
Ion Ratio Lower Upper
43 100
74 23.9 19.0 28.4





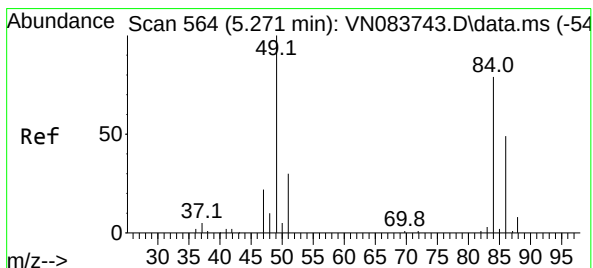
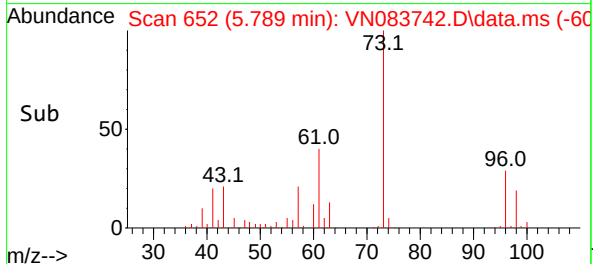
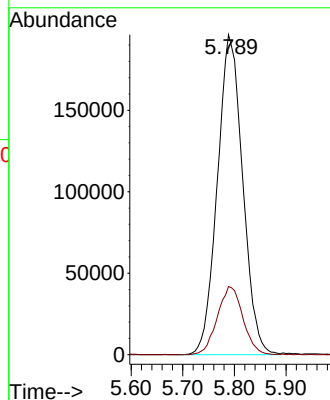
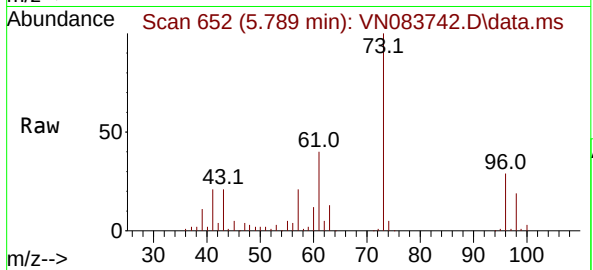
#19
Methyl tert-butyl Ether
Concen: 95.259 ug/l
RT: 5.789 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 66835
Ion Ratio Lower Upper
73 100
57 21.3 17.0 25.6

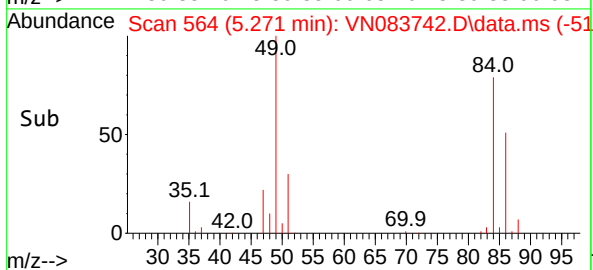
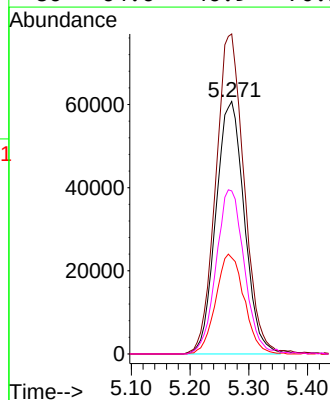
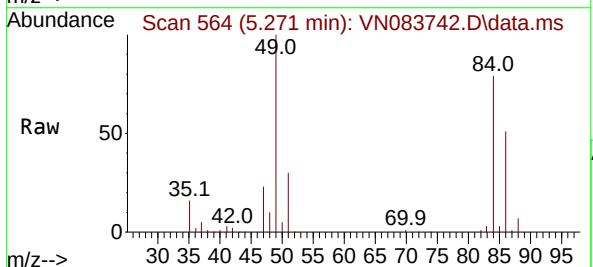
Manual Integrations
APPROVED

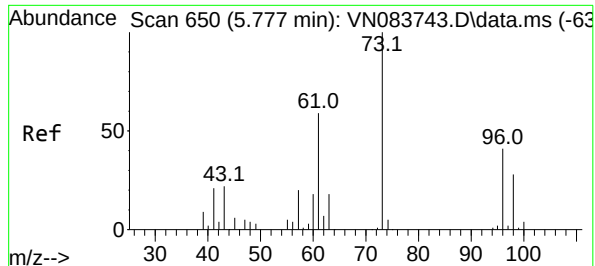
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#20
Methylene Chloride
Concen: 91.913 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 84 Resp: 203805
Ion Ratio Lower Upper
84 100
49 126.7 93.4 140.0
51 38.1 29.2 43.8
86 64.6 46.9 70.3





#21

trans-1,2-Dichloroethene

Concen: 91.967 ug/l

RT: 5.783 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 96 Resp: 191098

Ion Ratio Lower Upper

96 100

61 140.6 106.0 159.0

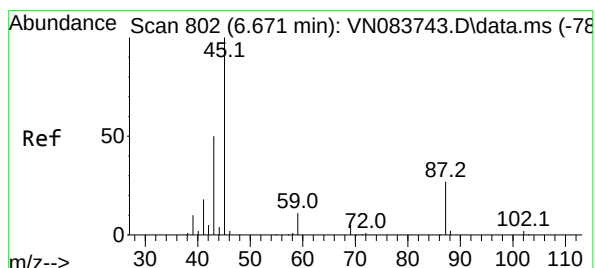
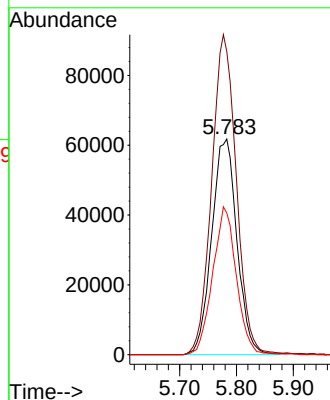
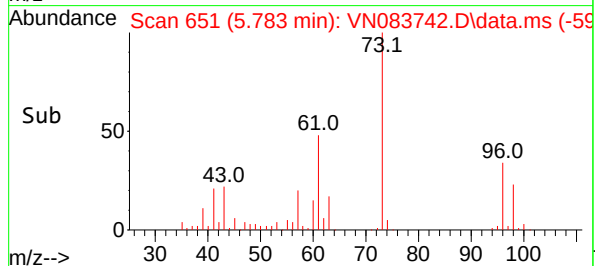
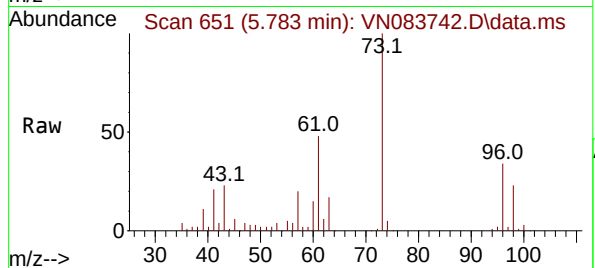
98 65.7 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#22

Diisopropyl ether

Concen: 97.608 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.006 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Tgt Ion: 45 Resp: 694175

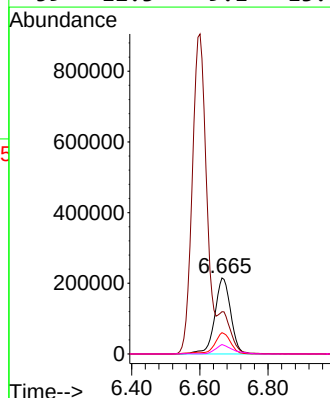
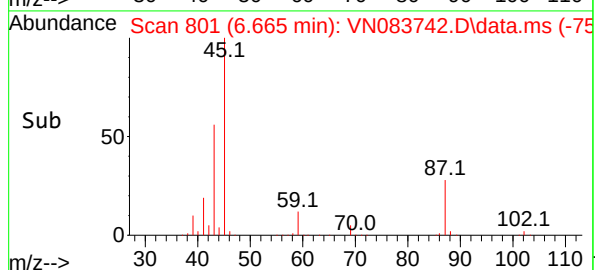
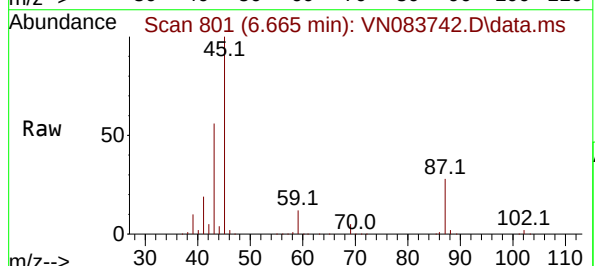
Ion Ratio Lower Upper

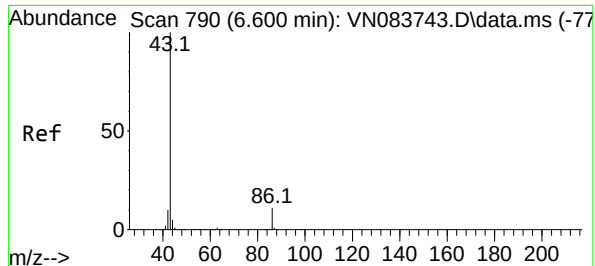
45 100

43 55.4 43.4 65.0

87 28.0 22.6 33.8

59 12.3 9.1 13.7





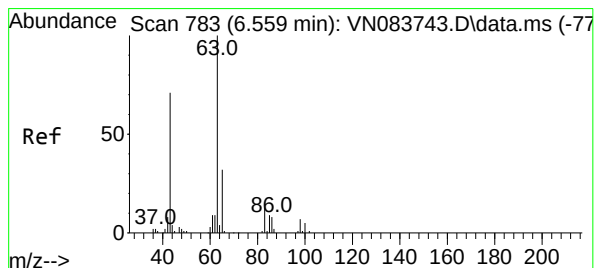
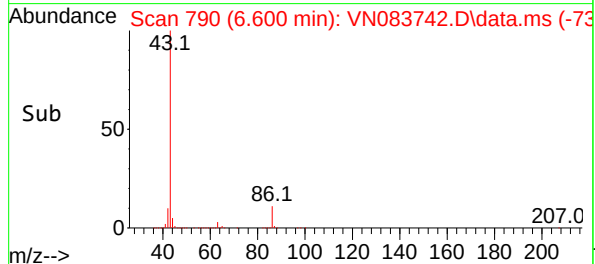
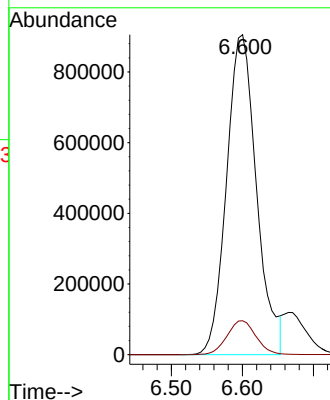
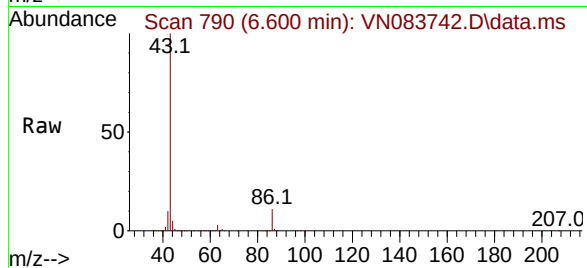
#23
Vinyl Acetate
Concen: 511.076 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 266175
Ion Ratio Lower Upper
43 100
86 10.6 8.7 13.1

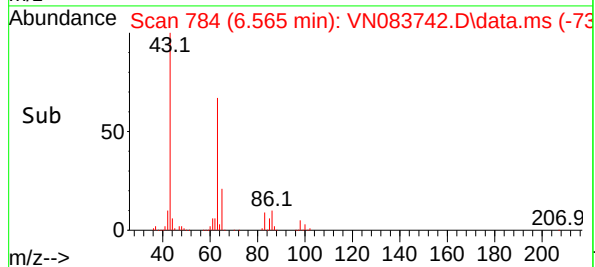
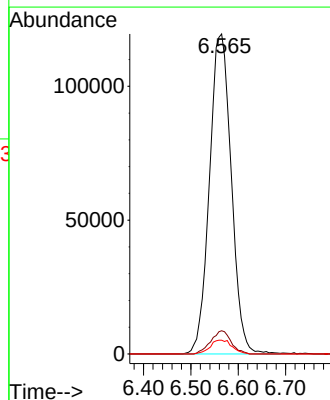
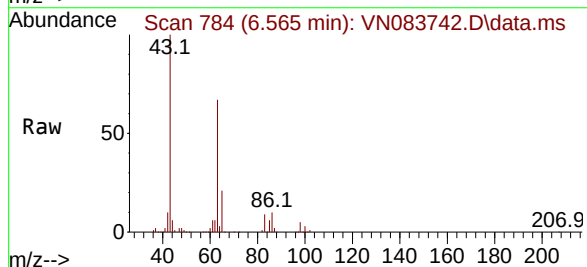
Manual Integrations
APPROVED

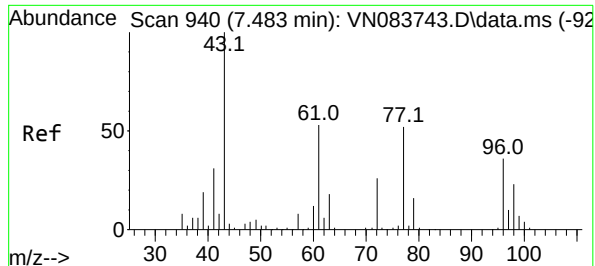
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#24
1,1-Dichloroethane
Concen: 93.539 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 63 Resp: 383257
Ion Ratio Lower Upper
63 100
98 7.2 3.5 10.4
100 4.3 2.5 7.5





#25

2-Butanone

Concen: 468.347 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 667000

Ion Ratio Lower Upper

43 100

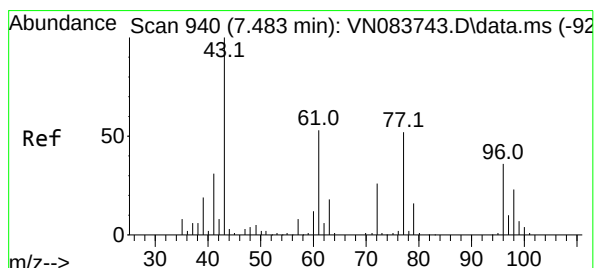
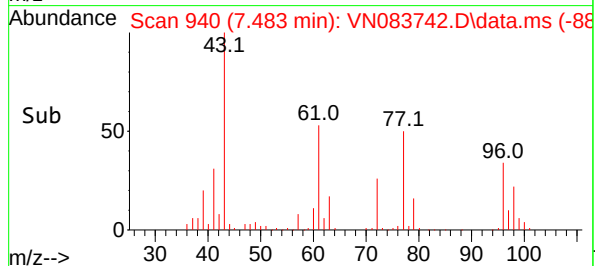
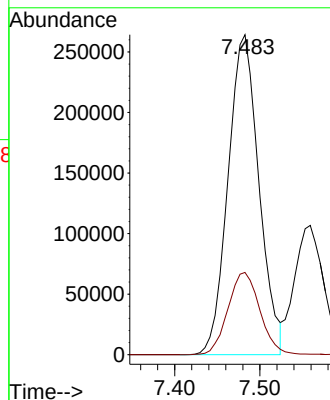
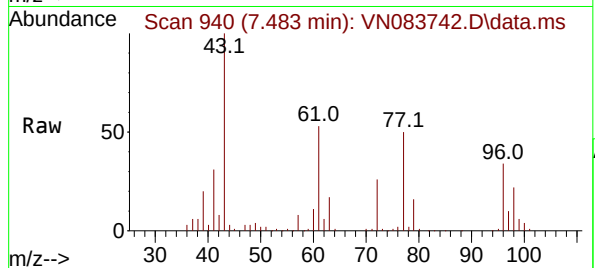
72 25.7 20.8 31.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#26

2,2-Dichloropropane

Concen: 99.301 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN083742.D

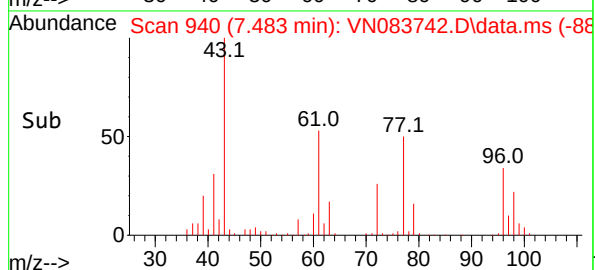
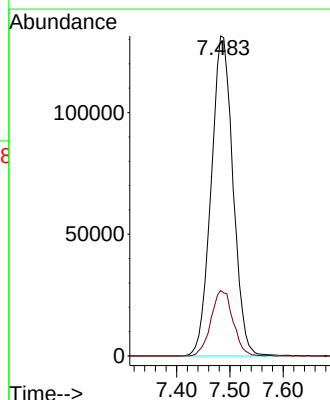
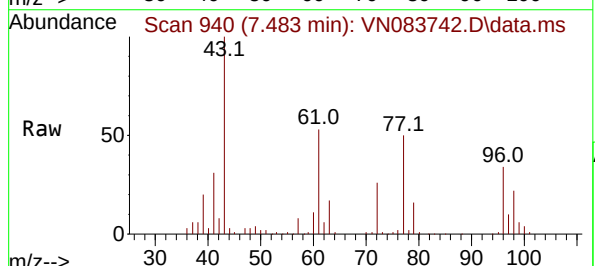
Acq: 10 Sep 2024 09:08

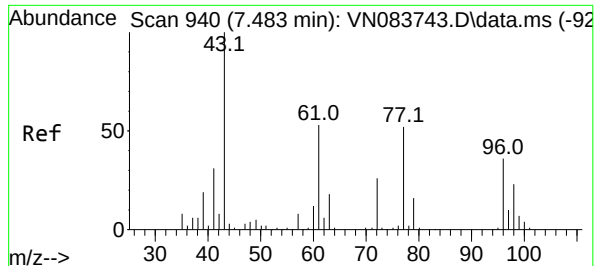
Tgt Ion: 77 Resp: 374693

Ion Ratio Lower Upper

77 100

97 20.6 10.2 30.4





#27

cis-1,2-Dichloroethene

Concen: 96.450 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 96 Resp: 237908

Ion Ratio Lower Upper

96 100

61 153.6 0.0 306.2

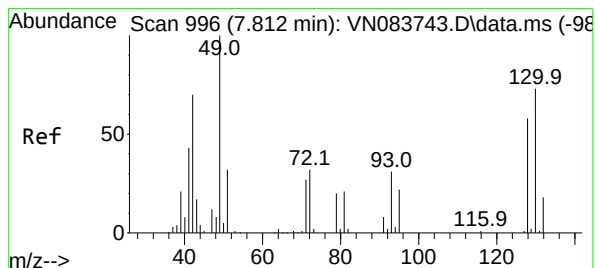
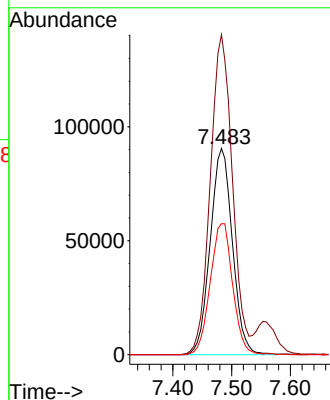
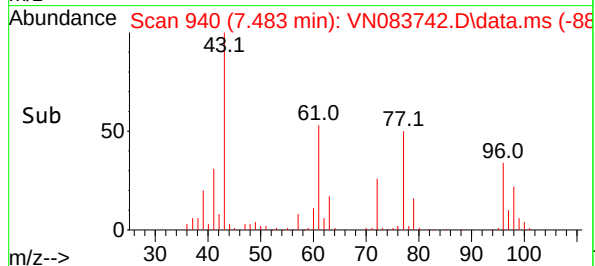
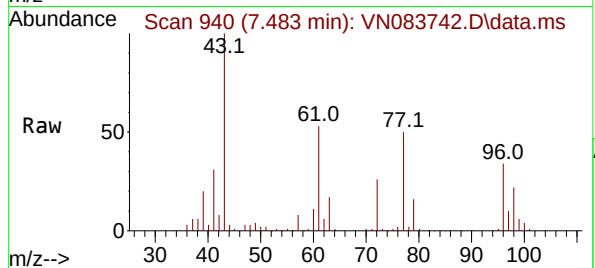
98 64.0 0.0 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#28

Bromochloromethane

Concen: 99.126 ug/l

RT: 7.812 min Scan# 996

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

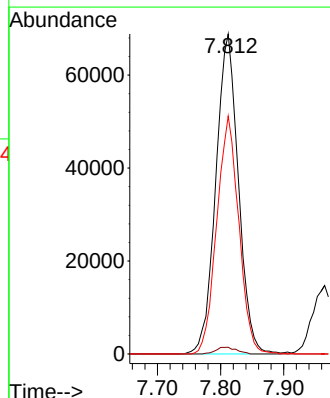
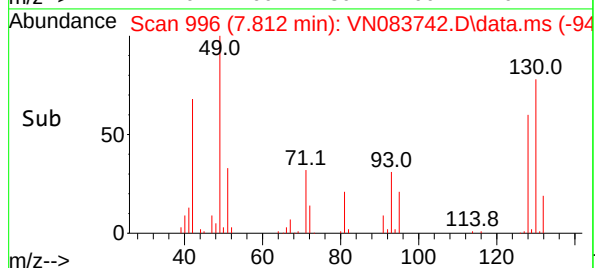
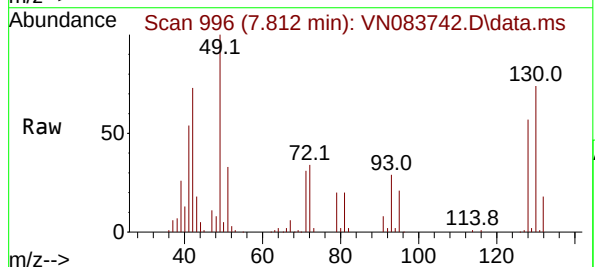
Tgt Ion: 49 Resp: 171038

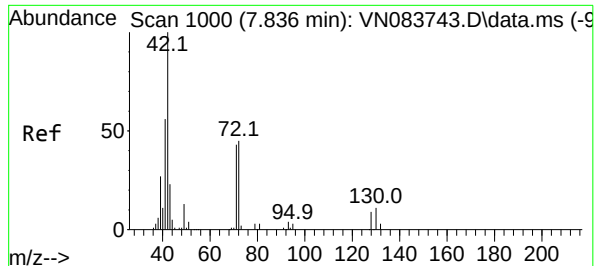
Ion Ratio Lower Upper

49 100

129 1.9 0.0 3.4

130 72.6 60.2 90.2





#29

Tetrahydrofuran

Concen: 473.660 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 42 Resp: 398869

Ion Ratio Lower Upper

42 100

72 43.9 35.9 53.9

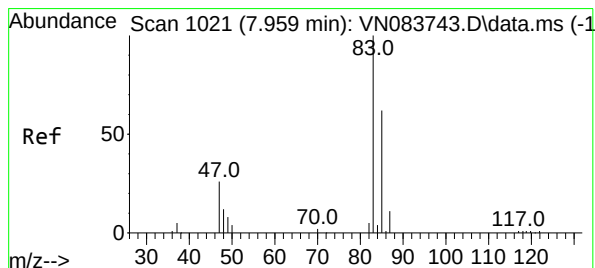
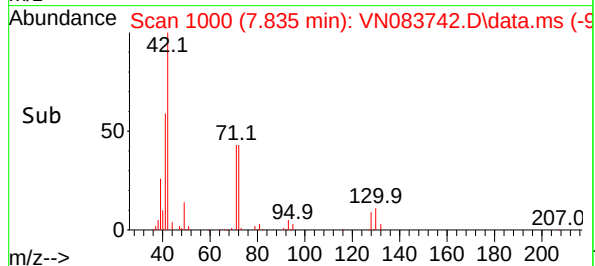
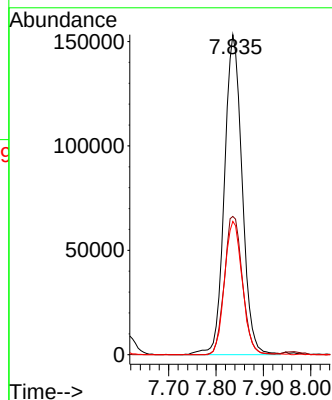
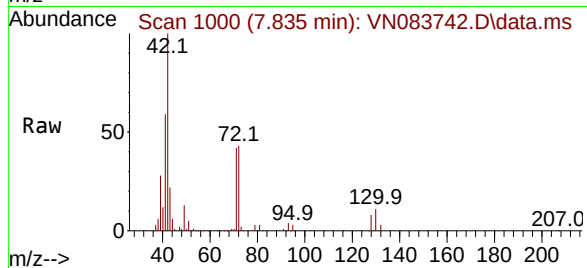
71 41.8 33.9 50.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#30

Chloroform

Concen: 94.390 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN083742.D

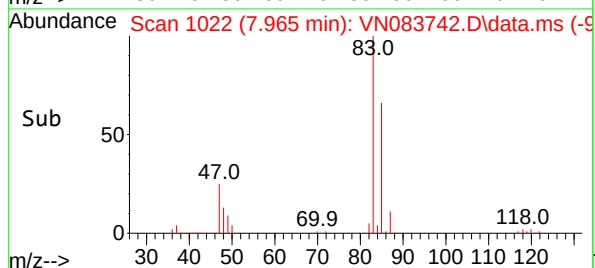
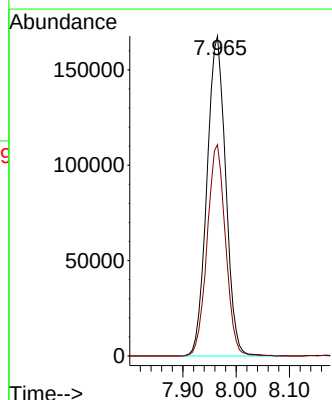
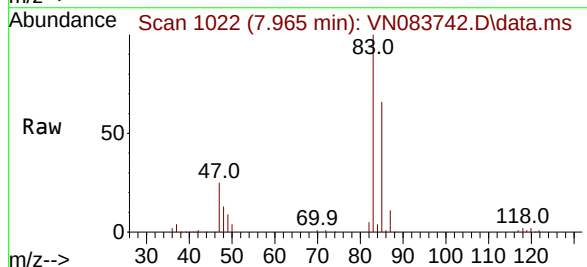
Acq: 10 Sep 2024 09:08

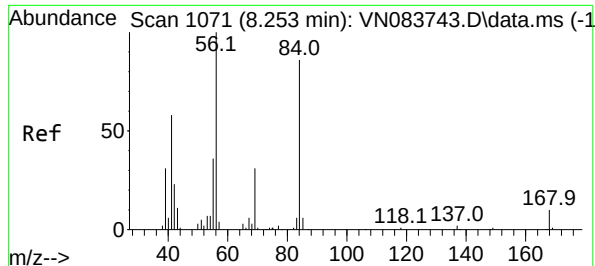
Tgt Ion: 83 Resp: 410584

Ion Ratio Lower Upper

83 100

85 66.0 52.8 79.2





#31

Cyclohexane

Concen: 88.574 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 56 Resp: 346019

Ion Ratio Lower Upper

56 100

69 31.1 26.9 40.3

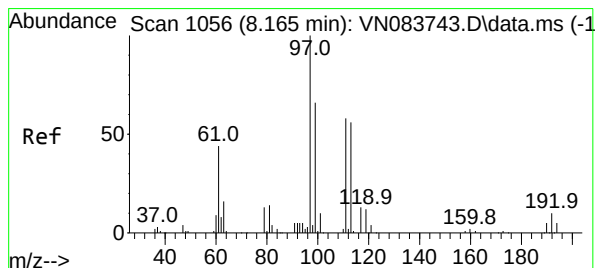
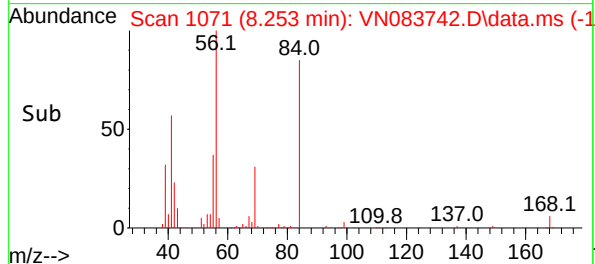
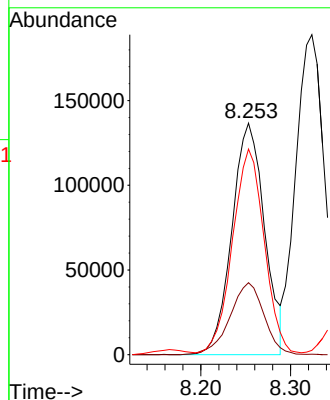
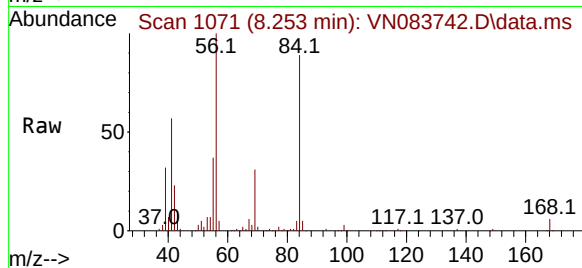
84 87.1 69.2 103.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#32

1,1,1-Trichloroethane

Concen: 95.240 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

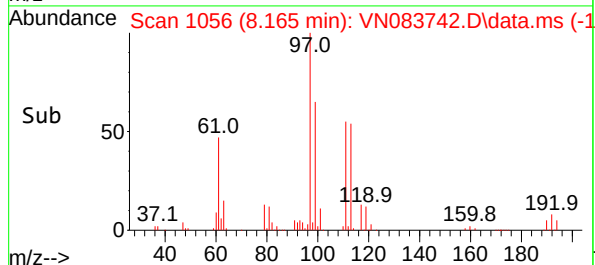
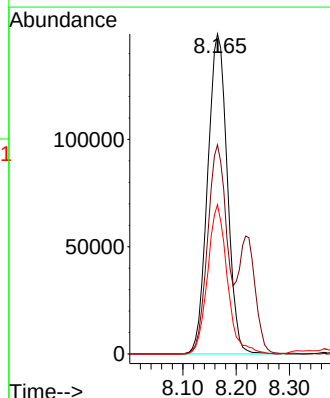
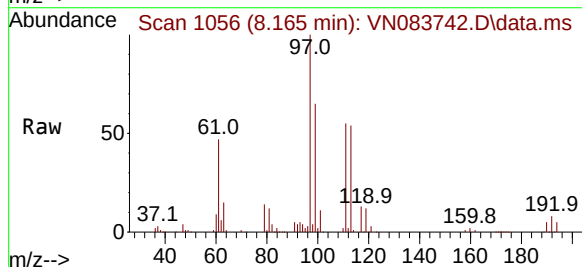
Tgt Ion: 97 Resp: 380933

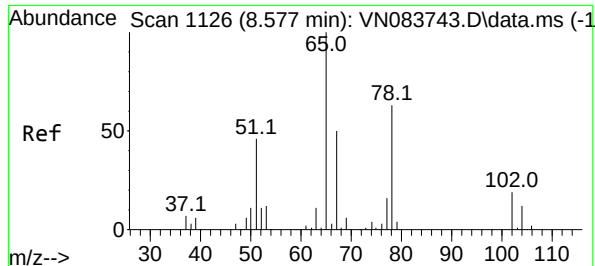
Ion Ratio Lower Upper

97 100

99 64.1 52.3 78.5

61 46.9 38.2 57.2





#33

1,2-Dichloroethane-d4

Concen: 98.775 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 65 Resp: 26698

Ion Ratio Lower Upper

65 100

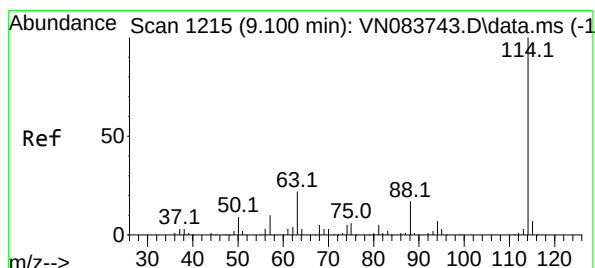
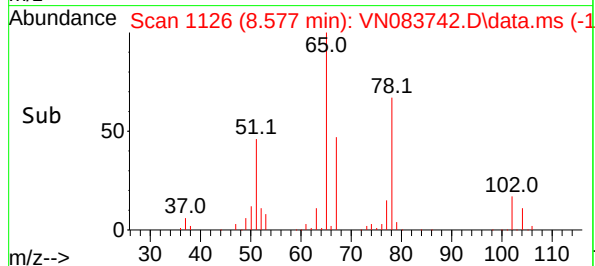
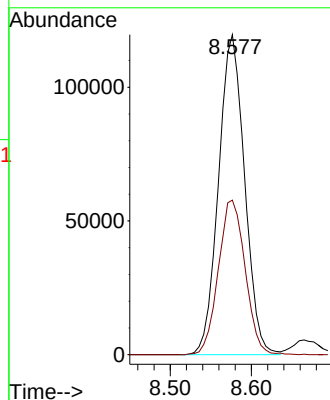
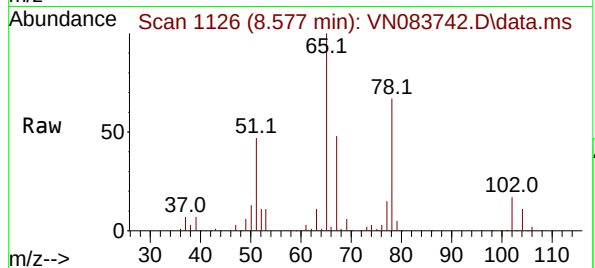
67 49.7 0.0 100.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

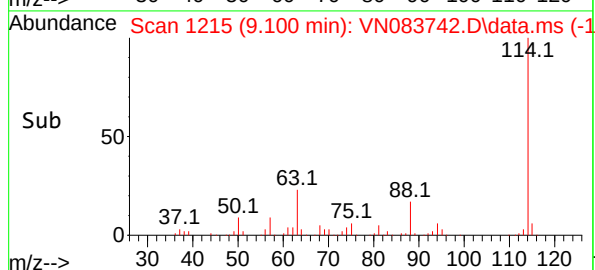
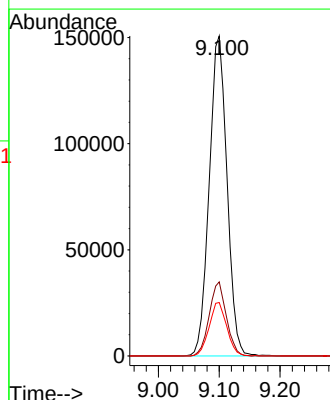
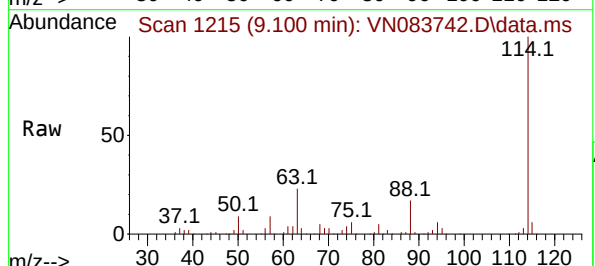
Tgt Ion:114 Resp: 305334

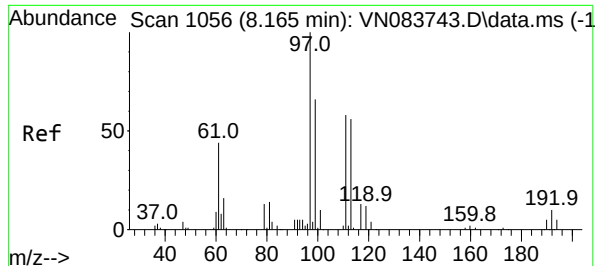
Ion Ratio Lower Upper

114 100

63 23.1 0.0 43.4

88 16.7 0.0 32.6





#35

Dibromofluoromethane

Concen: 98.687 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:113 Resp: 19290

Ion Ratio Lower Upper

113 100

111 103.0 82.6 124.0

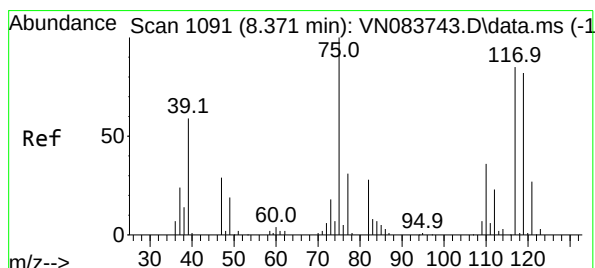
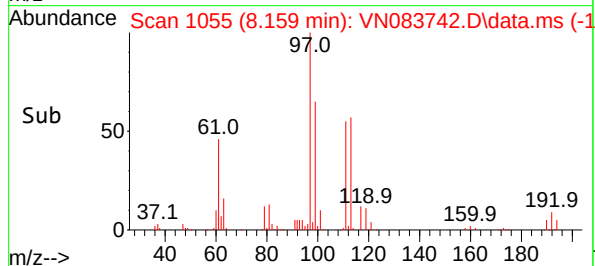
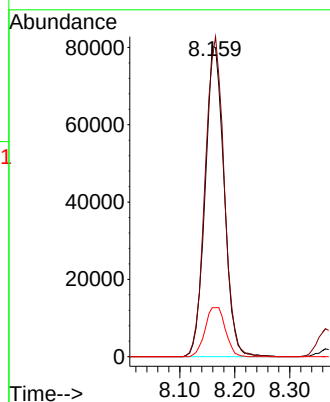
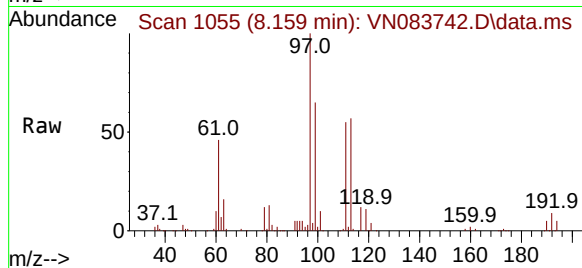
192 16.9 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#36

1,1-Dichloropropene

Concen: 97.756 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.006 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

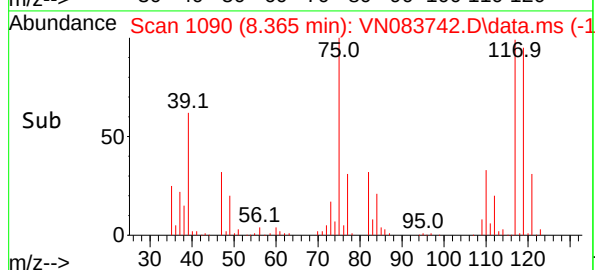
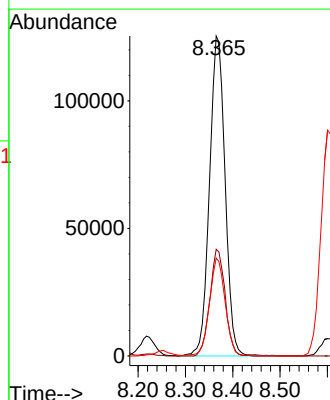
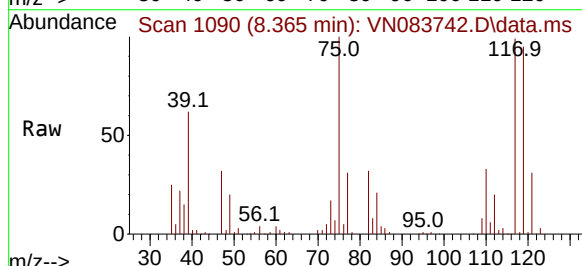
Tgt Ion: 75 Resp: 287609

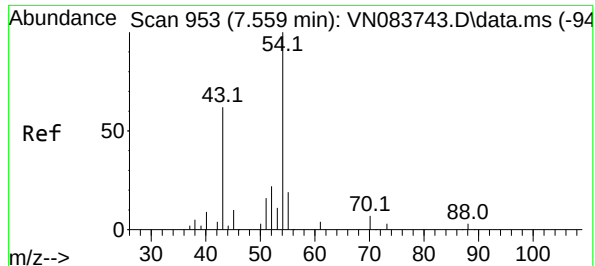
Ion Ratio Lower Upper

75 100

110 32.7 16.7 50.1

77 30.8 25.2 37.8





#37

Ethyl Acetate

Concen: 98.714 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 26362

Ion Ratio Lower Upper

43 100

61 12.8 11.1 16.7

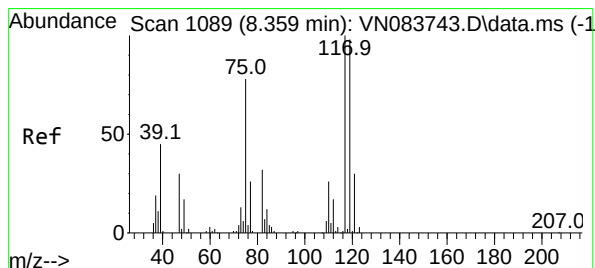
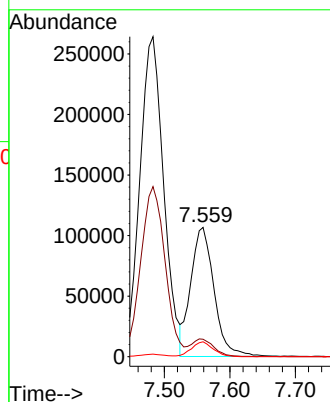
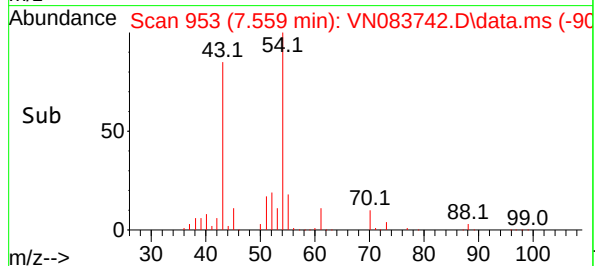
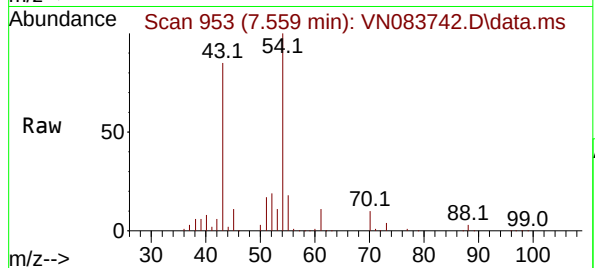
70 10.8 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#38

Carbon Tetrachloride

Concen: 99.004 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

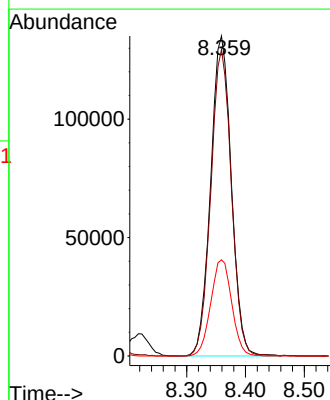
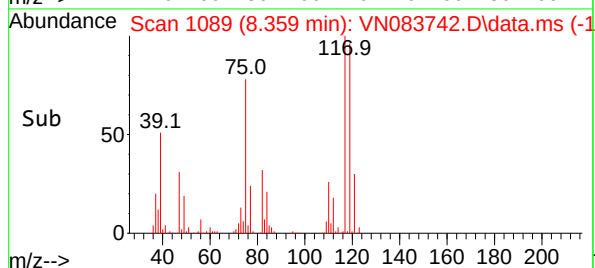
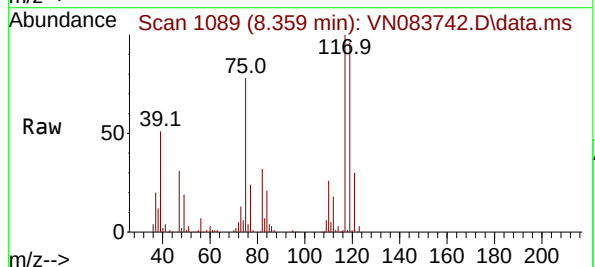
Tgt Ion:117 Resp: 330457

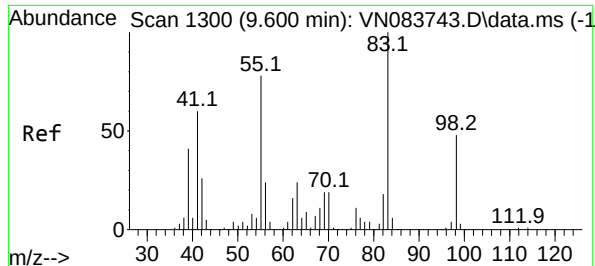
Ion Ratio Lower Upper

117 100

119 95.8 76.1 114.1

121 30.0 24.1 36.1





#39

Methylcyclohexane

Concen: 103.576 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 346860

Ion Ratio Lower Upper

83 100

55 78.1 62.2 93.4

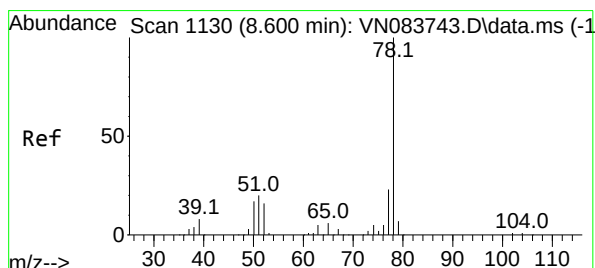
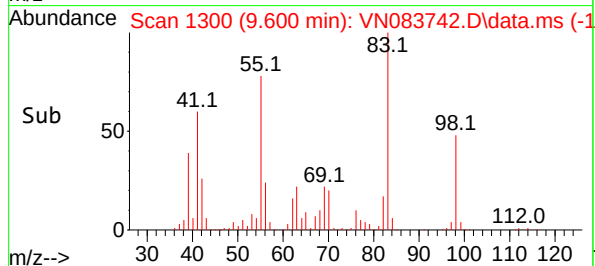
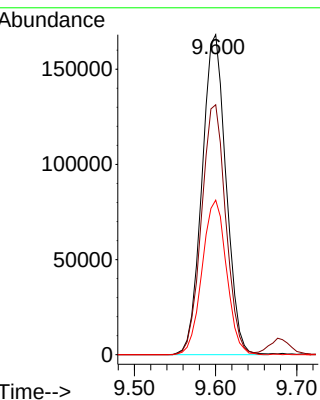
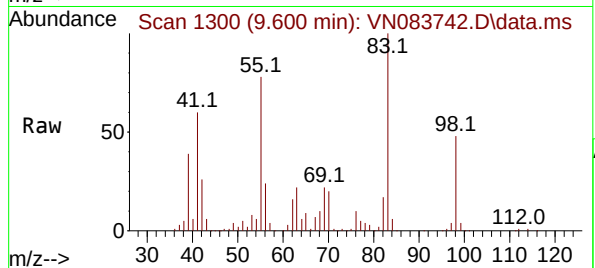
98 48.3 37.6 56.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#40

Benzene

Concen: 96.512 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN083742.D

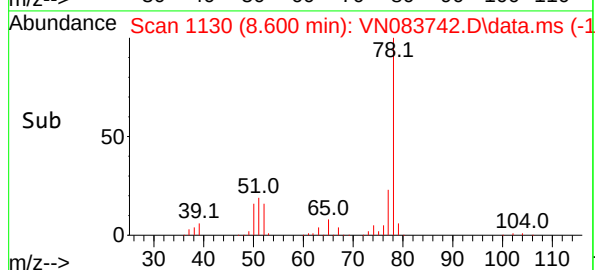
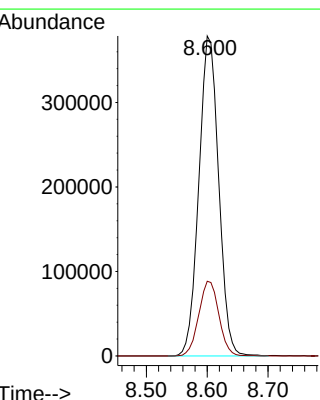
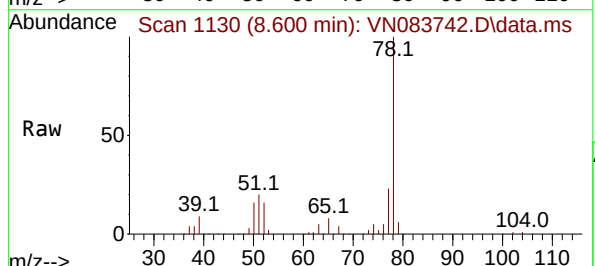
Acq: 10 Sep 2024 09:08

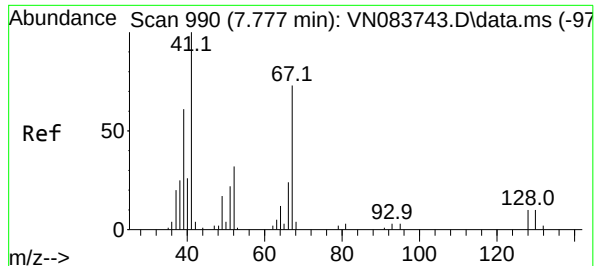
Tgt Ion: 78 Resp: 854656

Ion Ratio Lower Upper

78 100

77 23.4 19.0 28.6





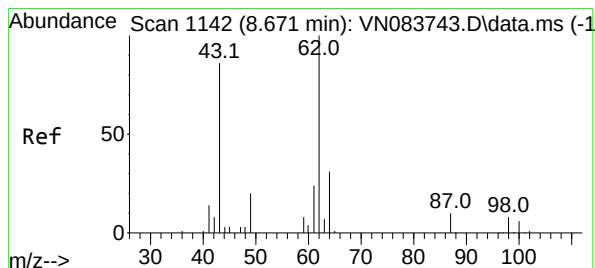
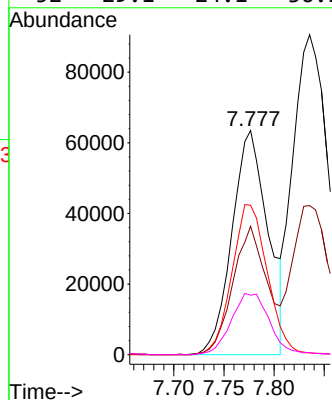
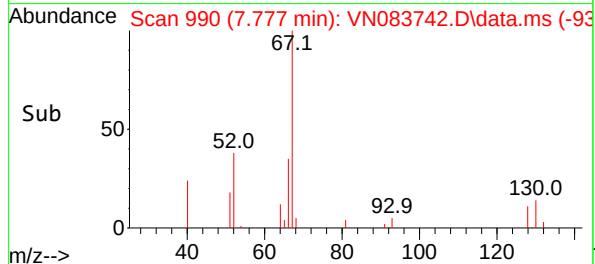
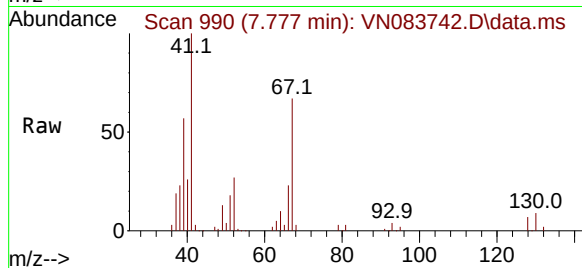
#41
Methacrylonitrile
Concen: 100.410 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 158600
Ion Ratio Lower Upper
41 100
39 55.2 45.4 68.2
67 66.3 55.9 83.9
52 29.1 24.1 36.1

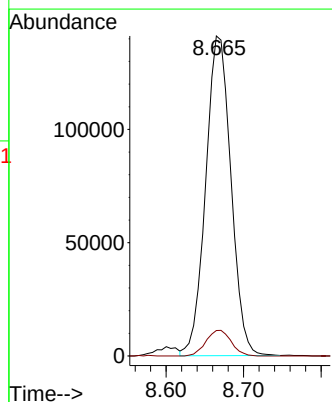
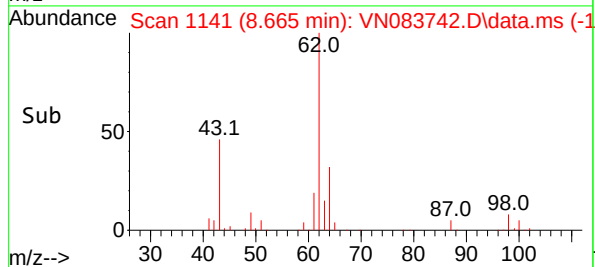
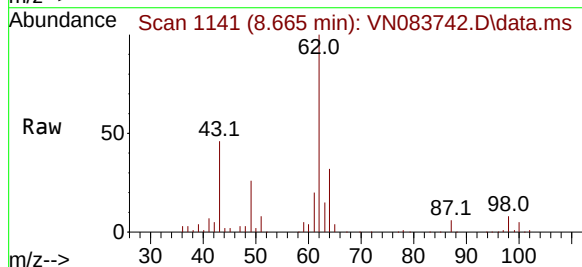
Manual Integrations
APPROVED

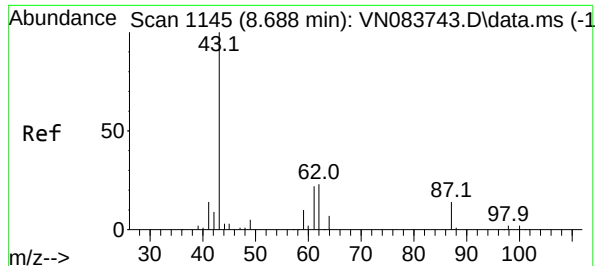
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#42
1,2-Dichloroethane
Concen: 96.572 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 62 Resp: 319551
Ion Ratio Lower Upper
62 100
98 8.0 0.0 16.6





#43

Isopropyl Acetate

Concen: 97.780 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 473198

Ion Ratio Lower Upper

43 100

61 26.1 19.4 29.0

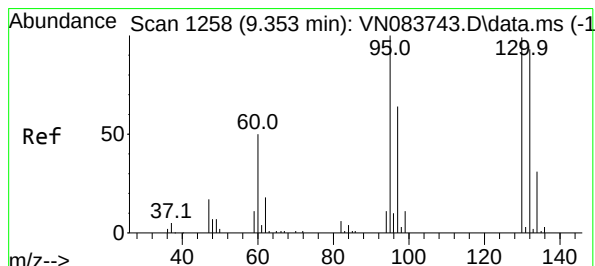
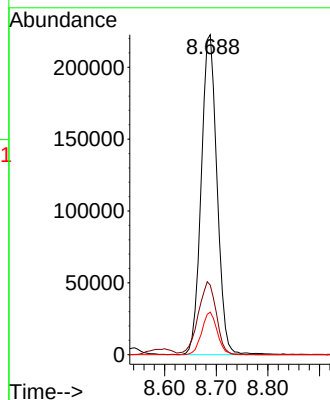
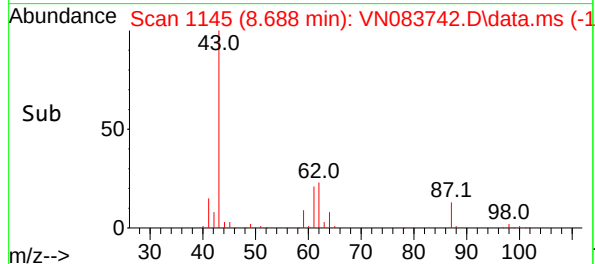
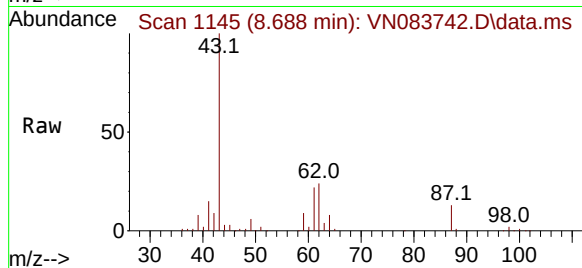
87 13.0 9.8 14.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#44

Trichloroethene

Concen: 96.327 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.006 min

Lab File: VN083742.D

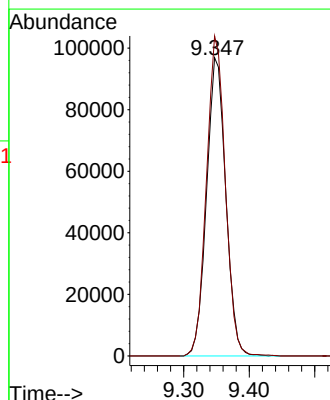
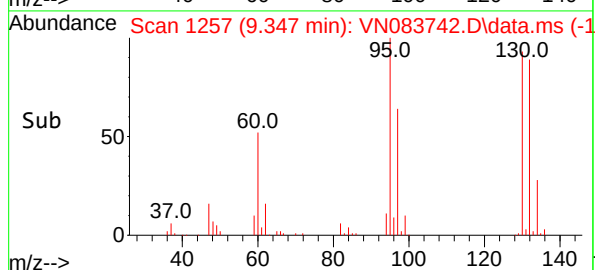
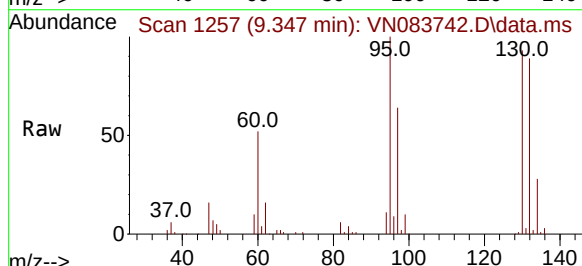
Acq: 10 Sep 2024 09:08

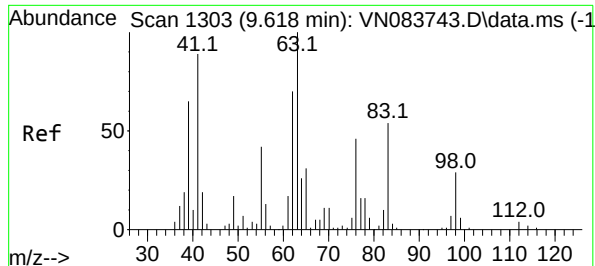
Tgt Ion:130 Resp: 197536

Ion Ratio Lower Upper

130 100

95 107.3 0.0 200.4





#45

1,2-Dichloropropane

Concen: 96.423 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 206374

Ion Ratio Lower Upper

63 100

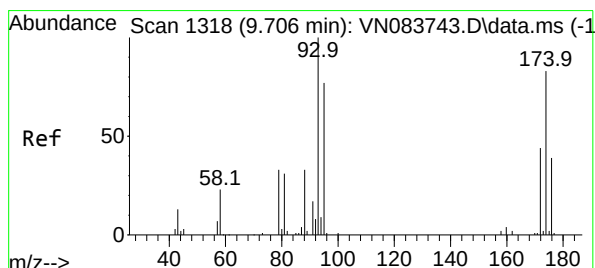
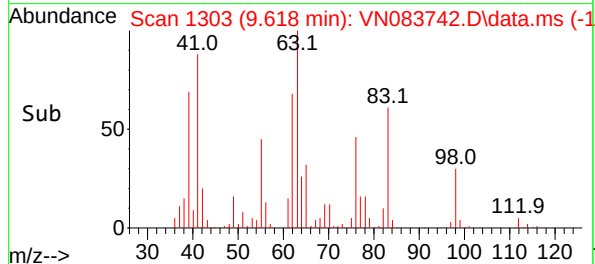
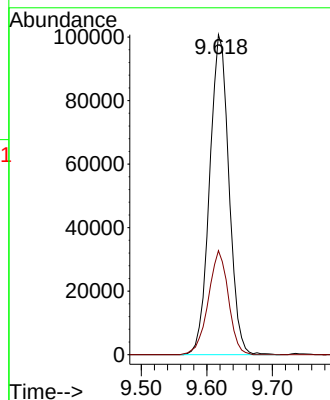
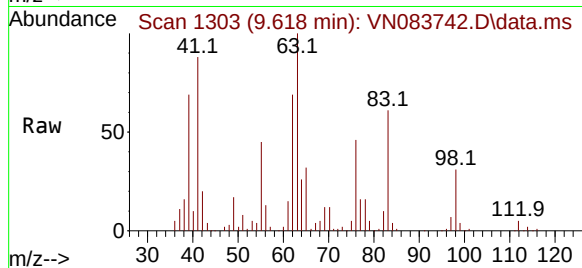
65 32.5 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#46

Dibromomethane

Concen: 98.695 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

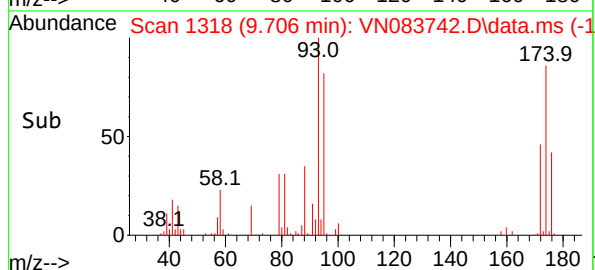
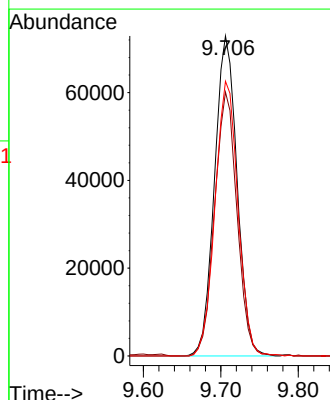
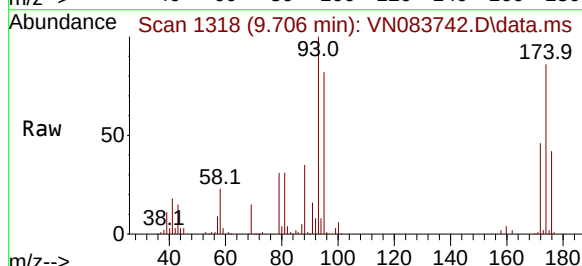
Tgt Ion: 93 Resp: 147957

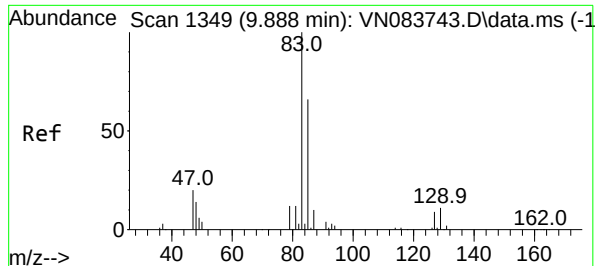
Ion Ratio Lower Upper

93 100

95 81.6 65.3 97.9

174 87.2 71.0 106.4





#47

Bromodichloromethane

Concen: 100.891 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 327330

Ion Ratio Lower Upper

83 100

85 63.4 51.8 77.8

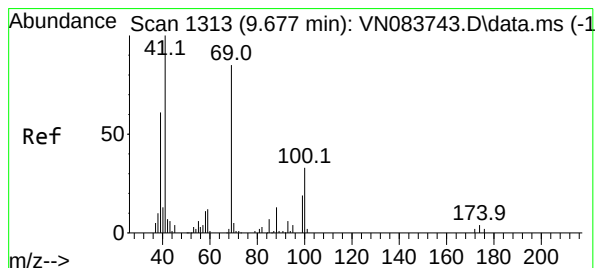
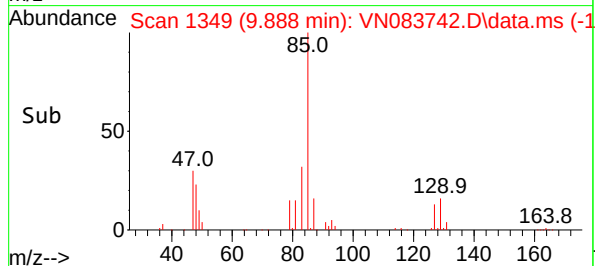
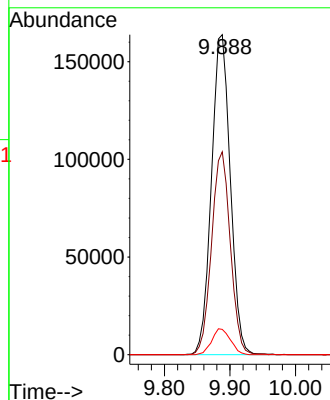
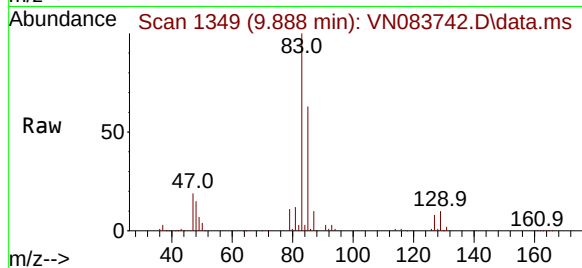
127 7.9 6.6 9.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#48

Methyl methacrylate

Concen: 98.898 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

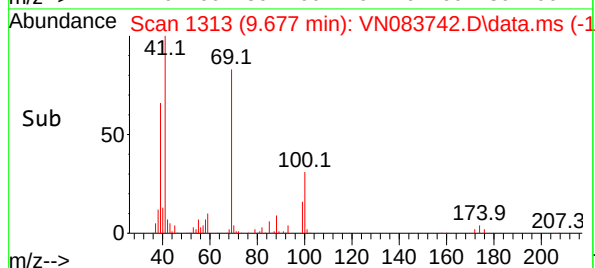
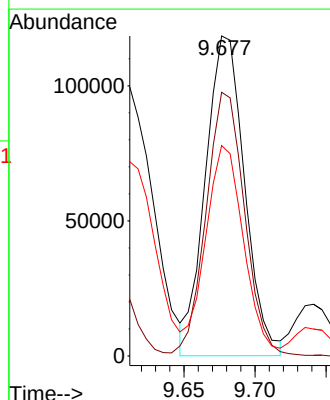
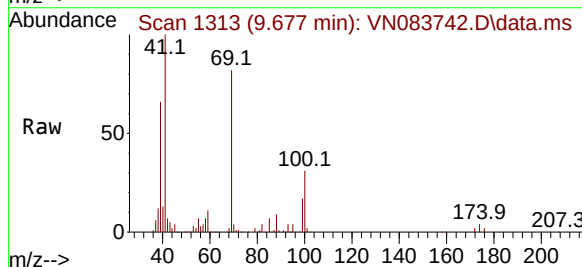
Tgt Ion: 41 Resp: 227071

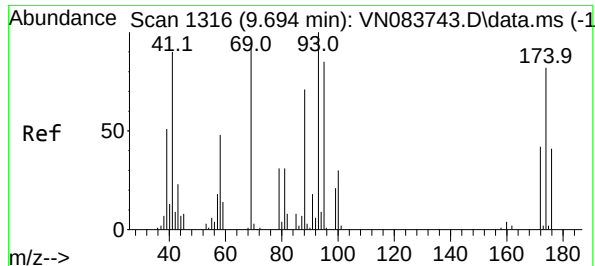
Ion Ratio Lower Upper

41 100

69 81.1 64.3 96.5

39 64.3 48.9 73.3





#49

1,4-Dioxane

Concen: 1811.632 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 88 Resp: 6842

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

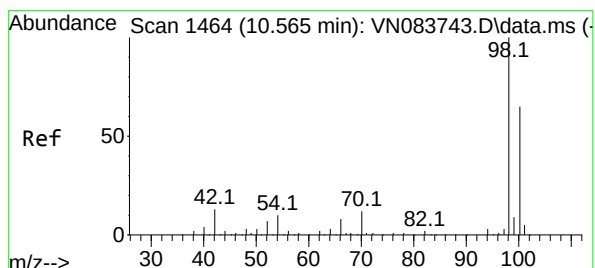
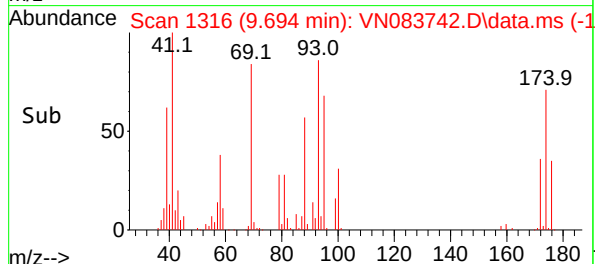
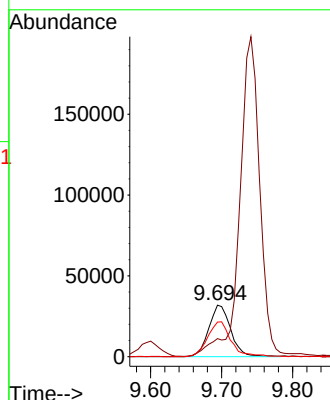
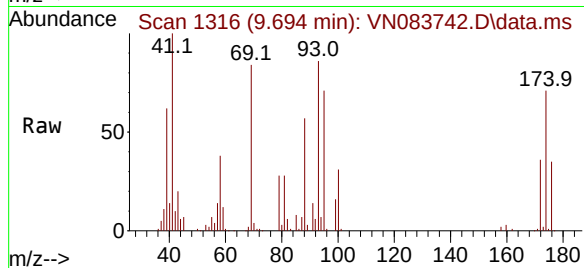
58 72.3 57.1 85.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#50

Toluene-d8

Concen: 105.896 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN083742.D

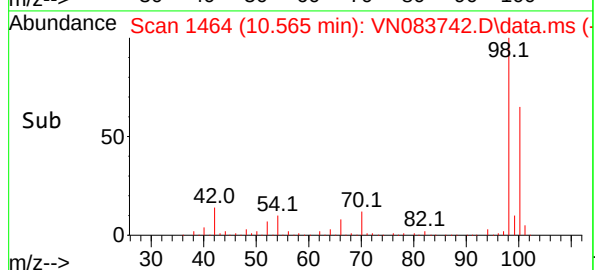
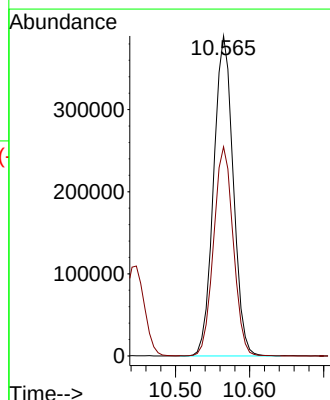
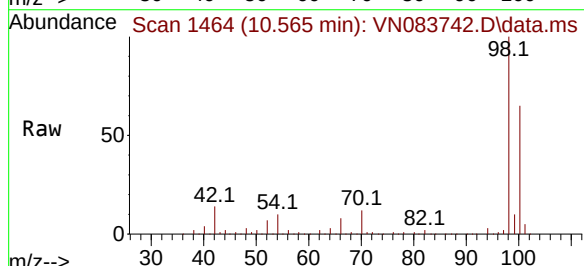
Acq: 10 Sep 2024 09:08

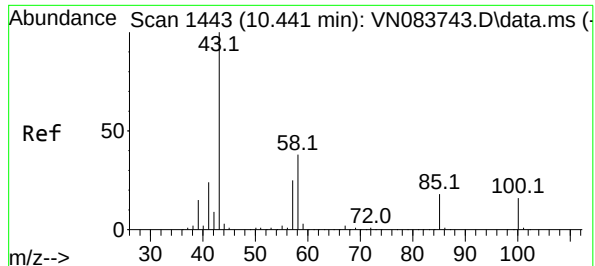
Tgt Ion: 98 Resp: 715598

Ion Ratio Lower Upper

98 100

100 65.4 52.0 78.0





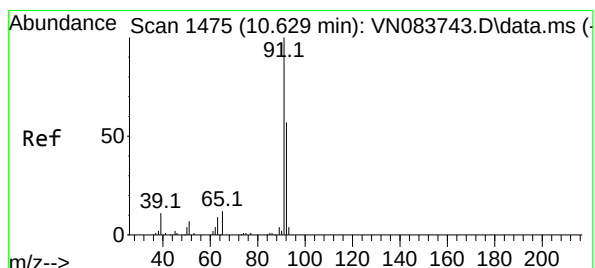
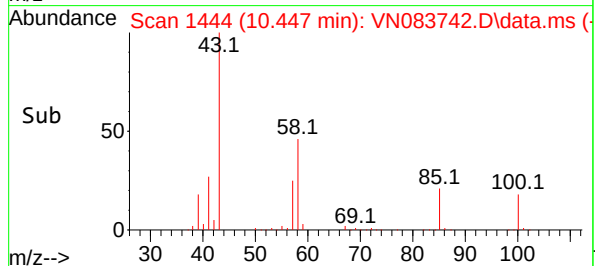
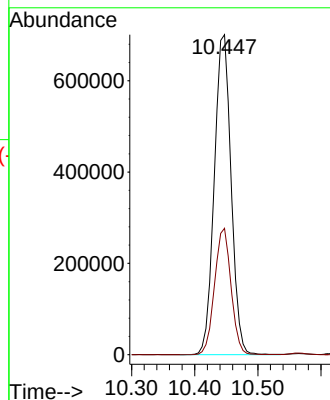
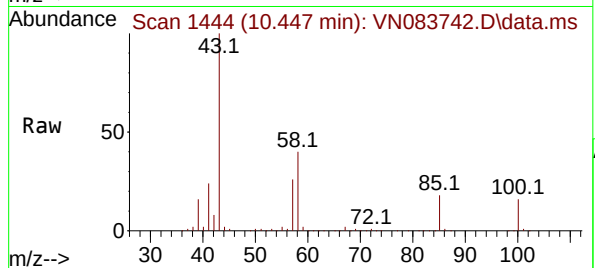
#51
4-Methyl-2-Pentanone
Concen: 491.701 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 129531
Ion Ratio Lower Upper
43 100
58 38.8 31.6 47.4

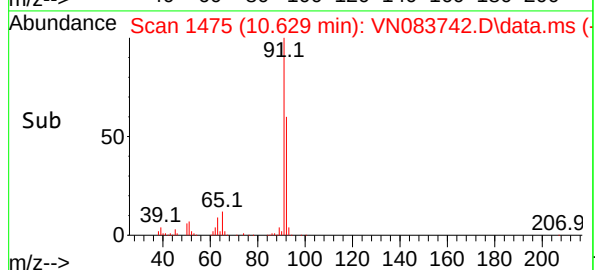
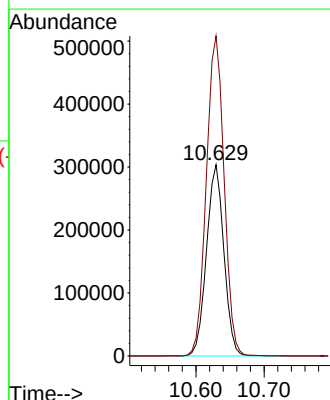
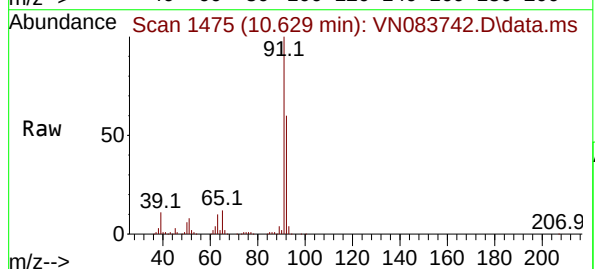
Manual Integrations
APPROVED

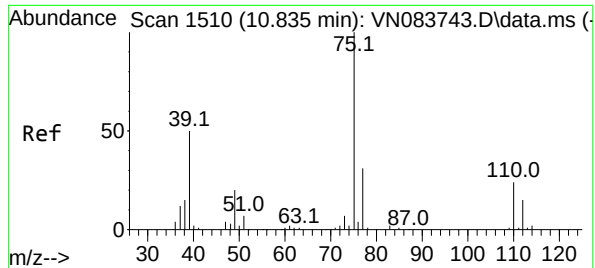
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#52
Toluene
Concen: 99.513 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

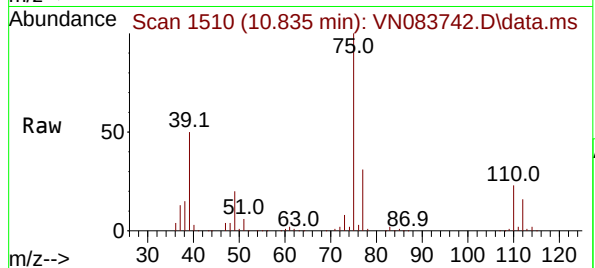
Tgt Ion: 92 Resp: 539024
Ion Ratio Lower Upper
92 100
91 171.1 134.7 202.1





#53
t-1,3-Dichloropropene
Concen: 102.158 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

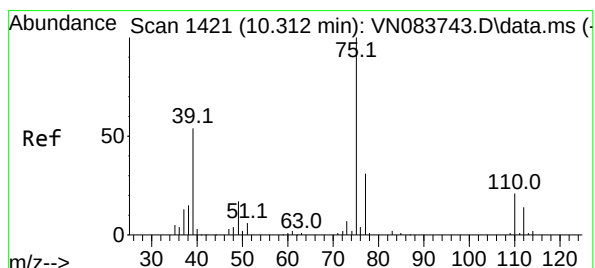
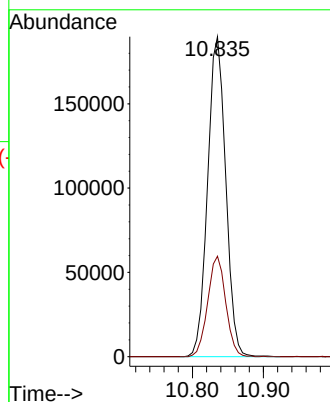
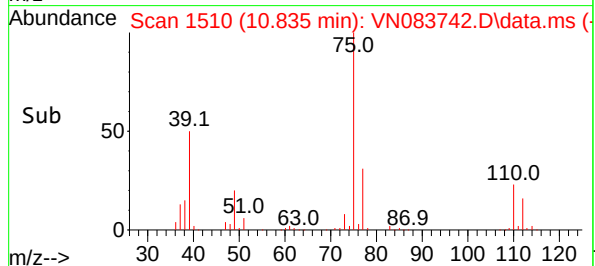
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 75 Resp: 335958
Ion Ratio Lower Upper
75 100
77 31.4 25.8 38.6

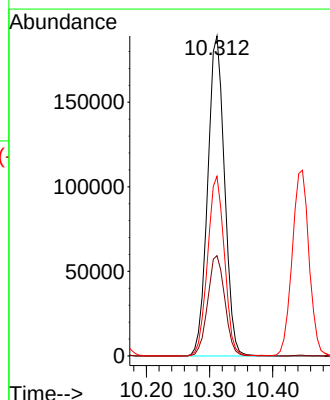
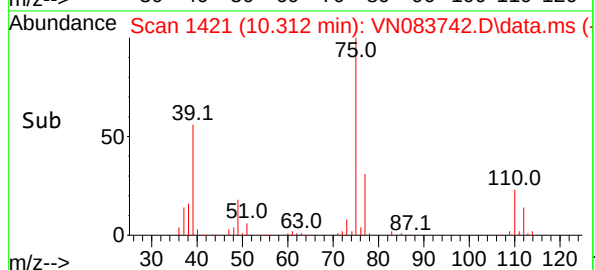
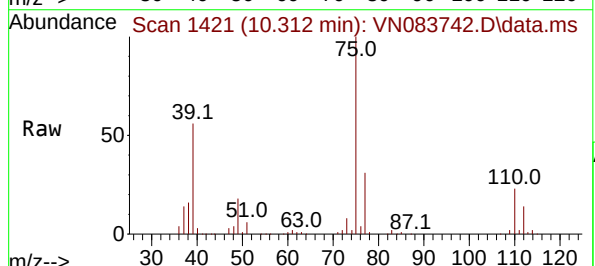
Manual Integrations
APPROVED

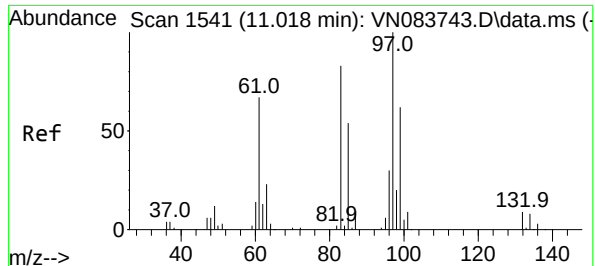
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#54
cis-1,3-Dichloropropene
Concen: 101.521 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

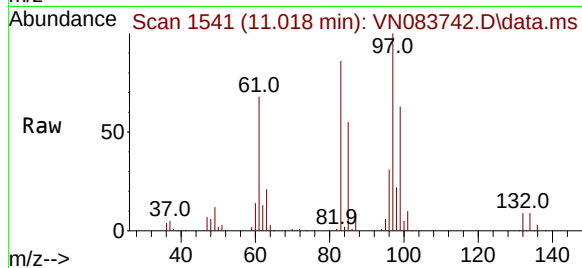
Tgt Ion: 75 Resp: 350699
Ion Ratio Lower Upper
75 100
77 31.4 25.0 37.6
39 56.2 42.6 64.0





#55
1,1,2-Trichloroethane
Concen: 94.997 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

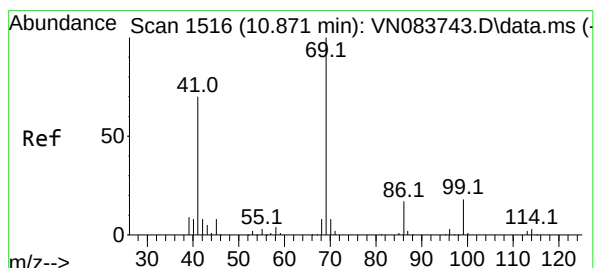
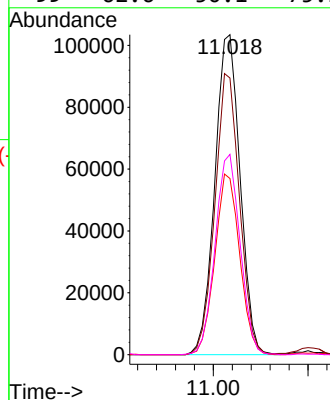
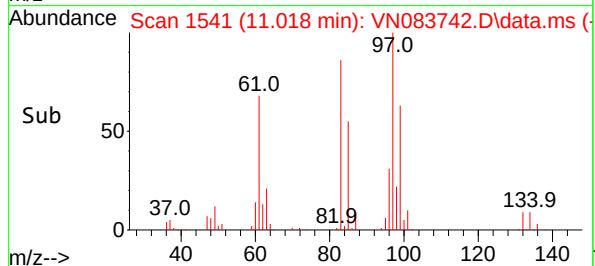
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 97 Resp: 19210
Ion Ratio Lower Upper
97 100
83 86.5 67.5 101.3
85 55.1 44.2 66.2
99 62.6 50.1 75.1

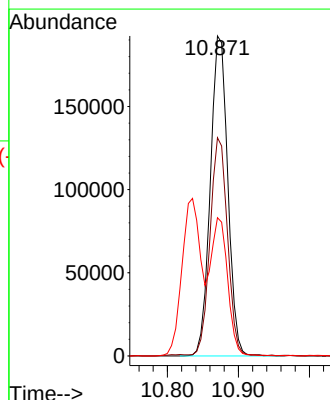
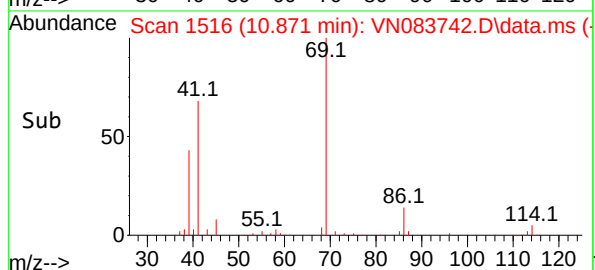
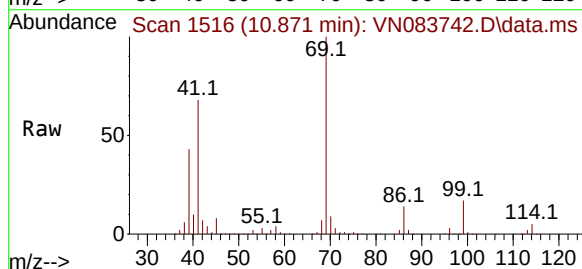
Manual Integrations
APPROVED

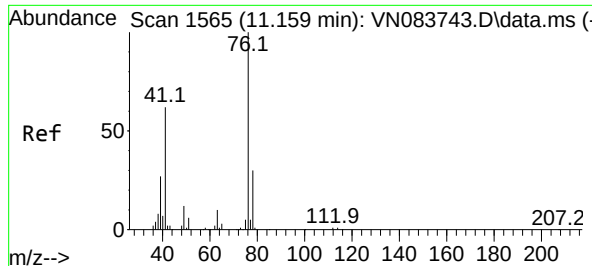
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#56
Ethyl methacrylate
Concen: 105.392 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 69 Resp: 327895
Ion Ratio Lower Upper
69 100
41 68.1 53.9 80.9
39 42.1 32.6 48.8





#57

1,3-Dichloropropane

Concen: 97.921 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 34032

Ion Ratio Lower Upper

76 100

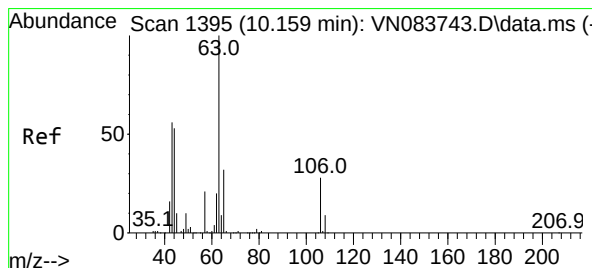
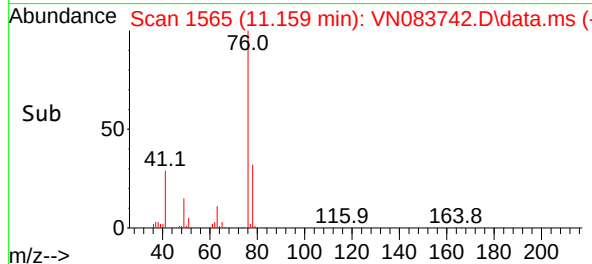
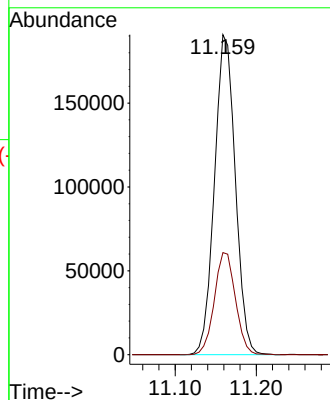
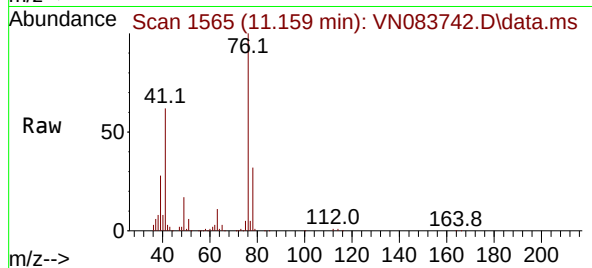
78 32.3 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#58

2-Chloroethyl Vinyl ether

Concen: 666.516 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN083742.D

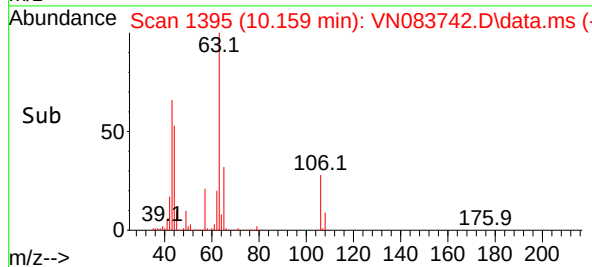
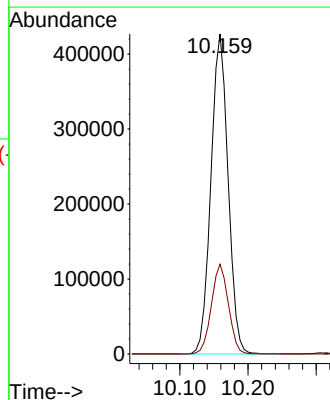
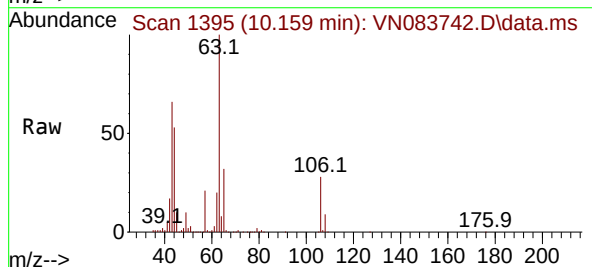
Acq: 10 Sep 2024 09:08

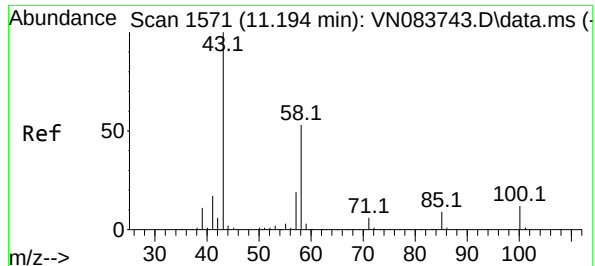
Tgt Ion: 63 Resp: 747188

Ion Ratio Lower Upper

63 100

106 27.7 23.3 34.9





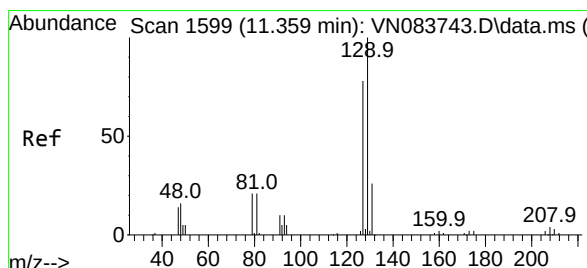
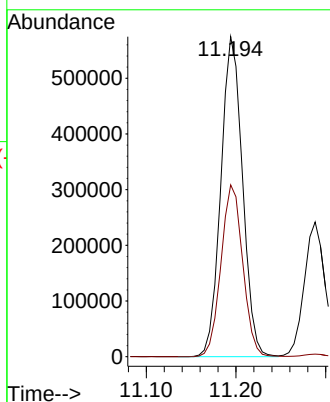
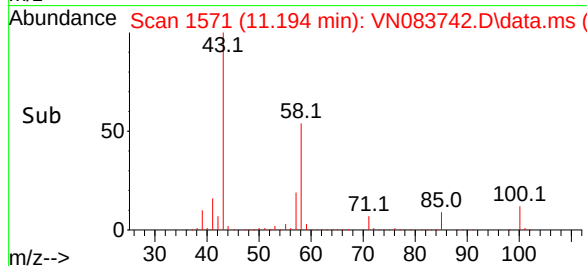
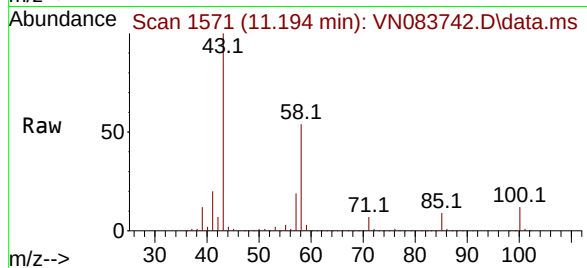
#59
2-Hexanone
Concen: 494.210 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 96306
Ion Ratio Lower Upper
43 100
58 53.8 27.2 81.5

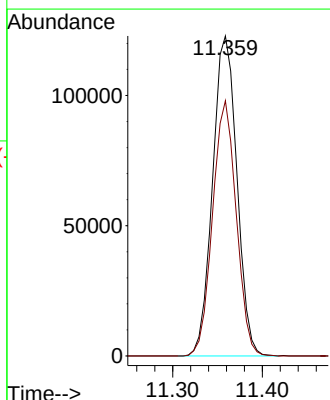
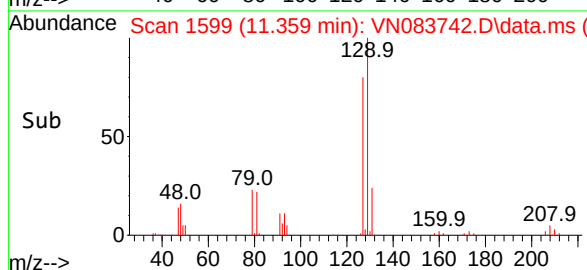
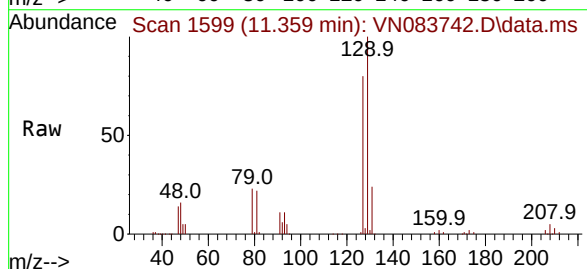
Manual Integrations
APPROVED

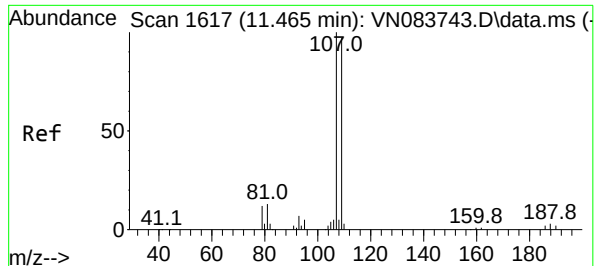
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#60
Dibromochloromethane
Concen: 102.022 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:129 Resp: 230885
Ion Ratio Lower Upper
129 100
127 77.7 39.0 116.9





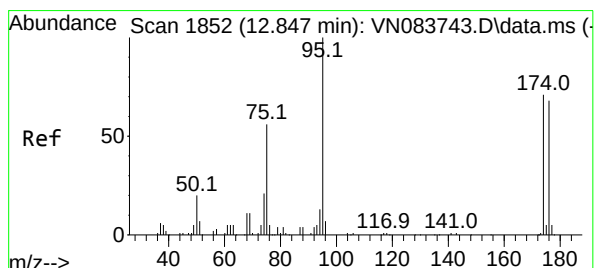
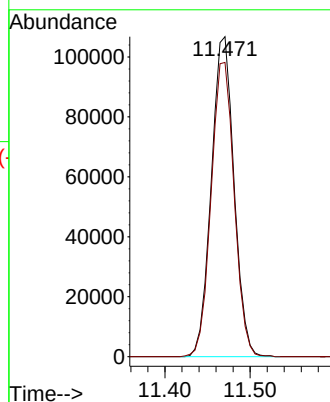
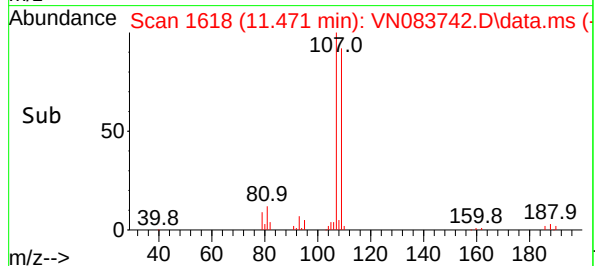
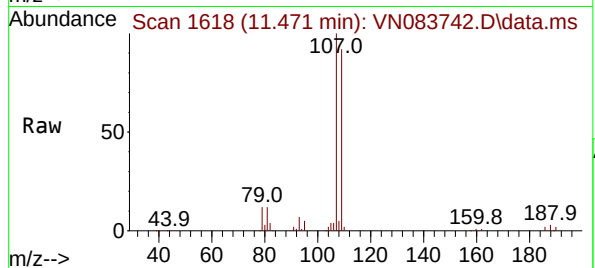
#61
1,2-Dibromoethane
Concen: 97.978 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 197598
Ion Ratio Lower Upper
107 100
109 93.2 75.6 113.4

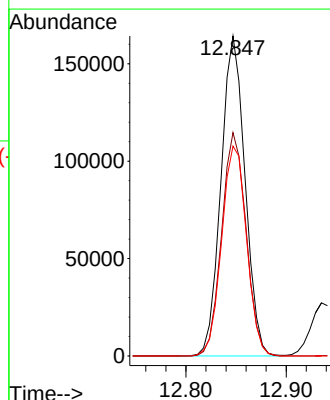
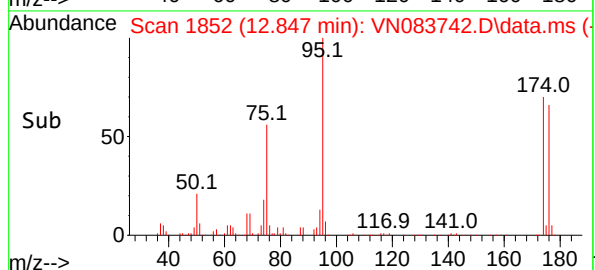
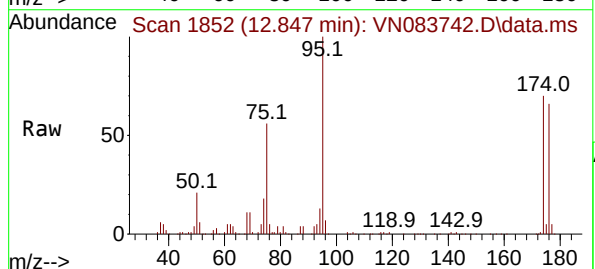
Manual Integrations
APPROVED

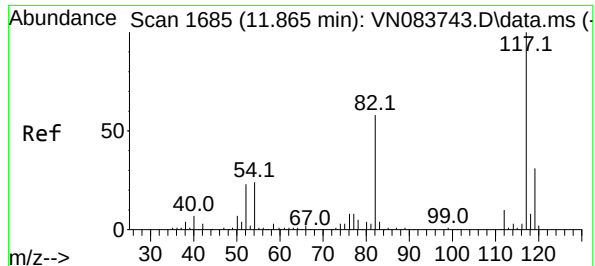
Reviewed By :John Carbone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#62
4-Bromofluorobenzene
Concen: 98.025 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

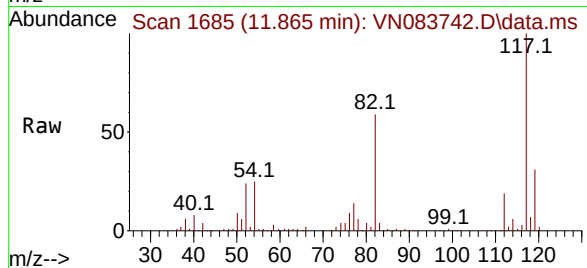
Tgt Ion: 95 Resp: 273293
Ion Ratio Lower Upper
95 100
174 70.7 0.0 139.8
176 67.9 0.0 131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

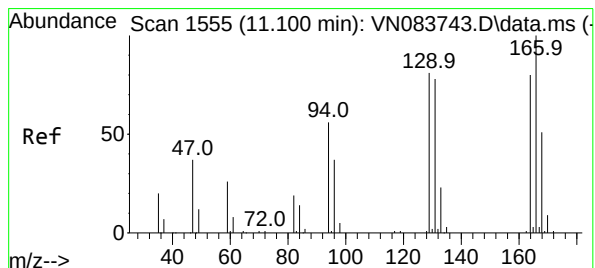
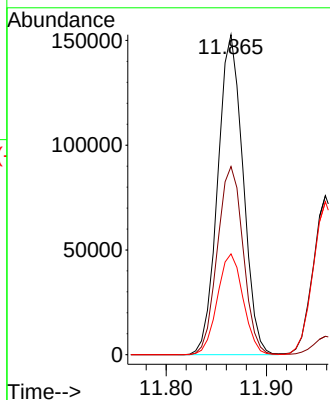
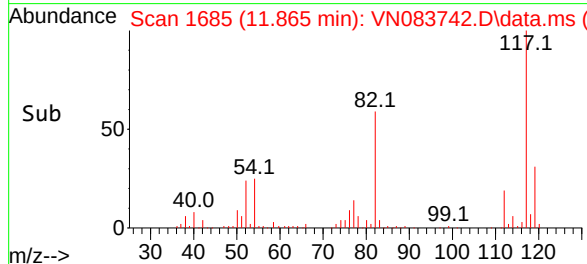
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:117 Resp: 267844
Ion Ratio Lower Upper
117 100
82 58.8 47.4 71.0
119 31.5 26.3 39.5

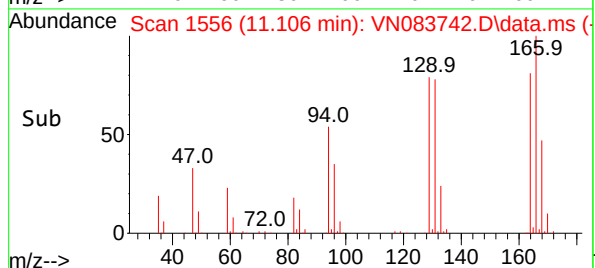
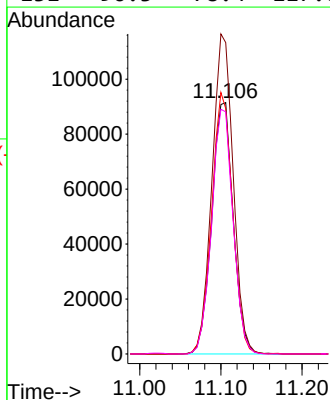
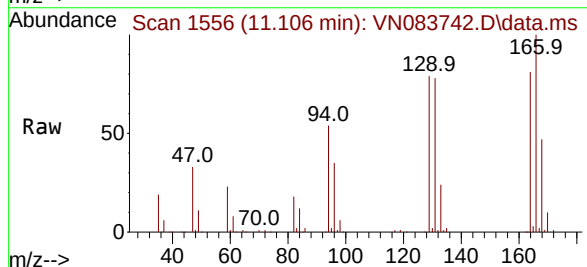
Manual Integrations
APPROVED

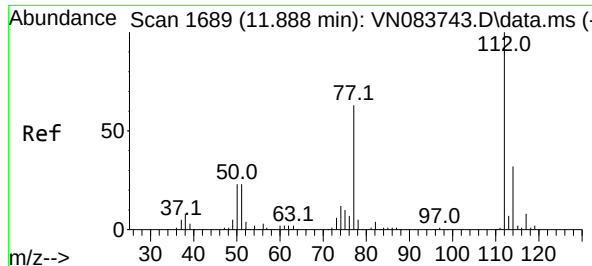
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#64
Tetrachloroethene
Concen: 94.271 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

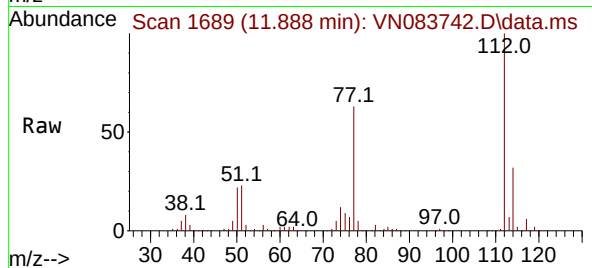
Tgt Ion:164 Resp: 167917
Ion Ratio Lower Upper
164 100
166 123.9 103.7 155.5
129 97.7 79.9 119.9
131 96.3 78.4 117.6





#65
Chlorobenzene
Concen: 94.145 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

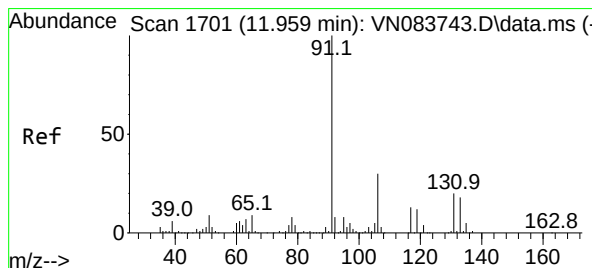
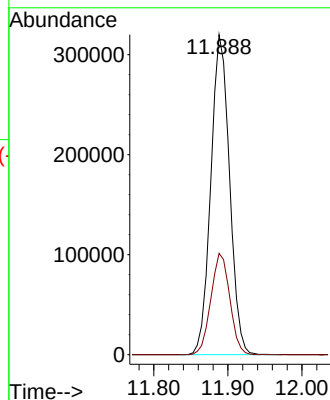
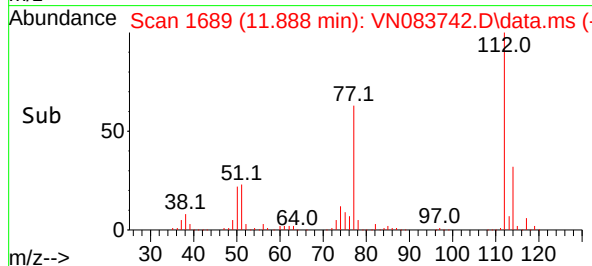
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:112 Resp: 560440
Ion Ratio Lower Upper
112 100
114 31.7 25.7 38.5

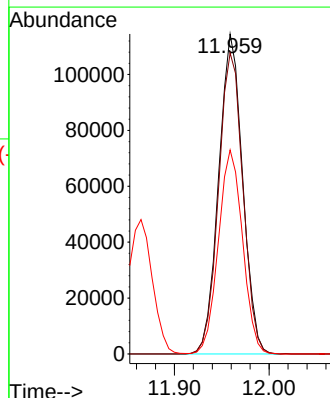
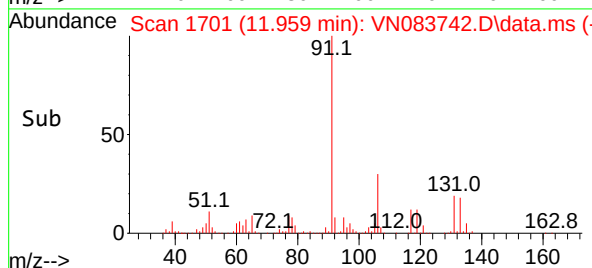
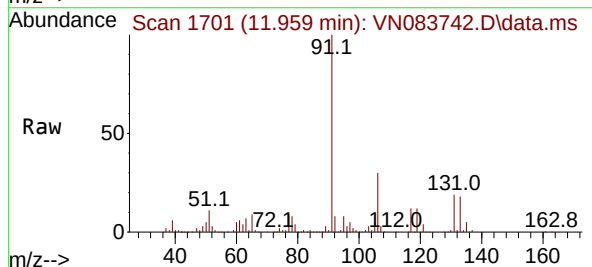
Manual Integrations
APPROVED

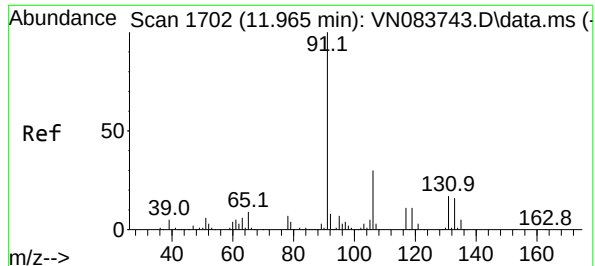
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 97.460 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:131 Resp: 201130
Ion Ratio Lower Upper
131 100
133 95.7 47.5 142.6
119 64.5 31.6 94.8





#67

Ethyl Benzene

Concen: 100.561 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 106343

Ion Ratio Lower Upper

91 100

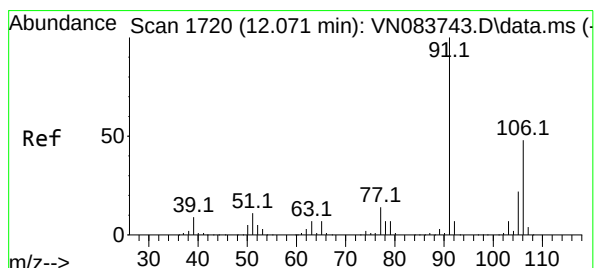
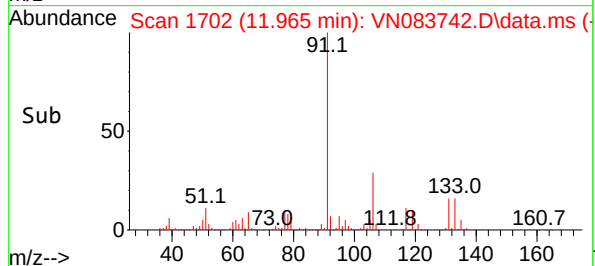
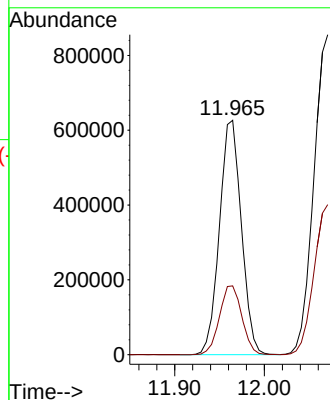
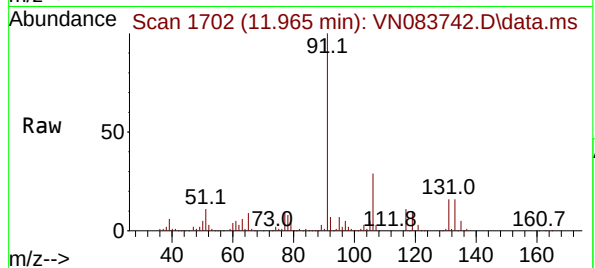
106 29.4 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#68

m/p-Xylenes

Concen: 200.232 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN083742.D

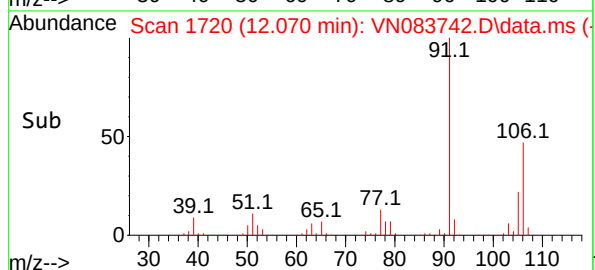
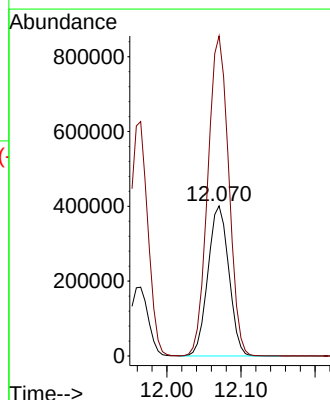
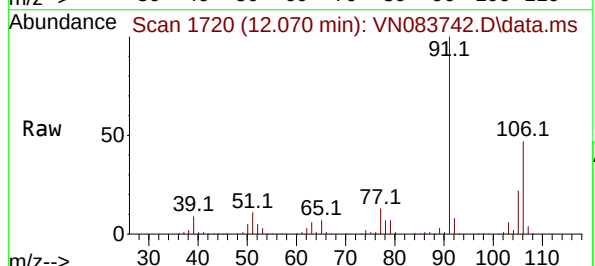
Acq: 10 Sep 2024 09:08

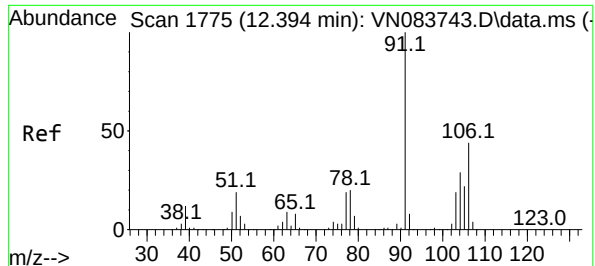
Tgt Ion:106 Resp: 786134

Ion Ratio Lower Upper

106 100

91 213.5 169.2 253.8





#69

o-Xylene

Concen: 99.660 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:106 Resp: 378780

Ion Ratio Lower Upper

106 100

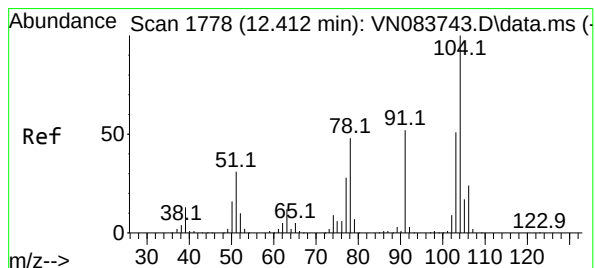
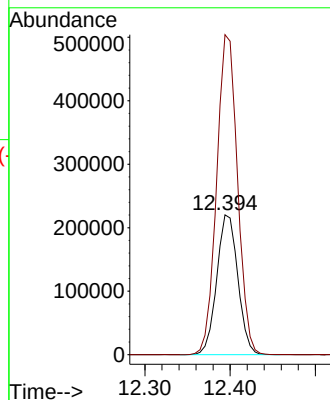
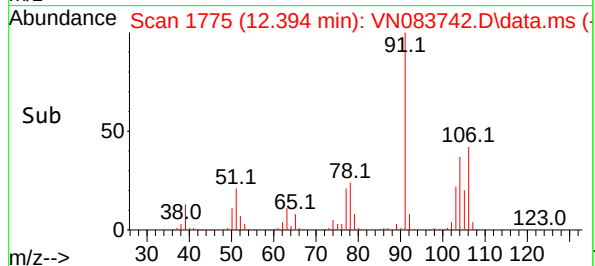
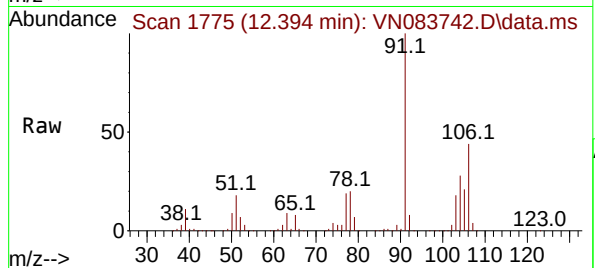
91 226.6 112.9 338.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#70

Styrene

Concen: 103.715 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

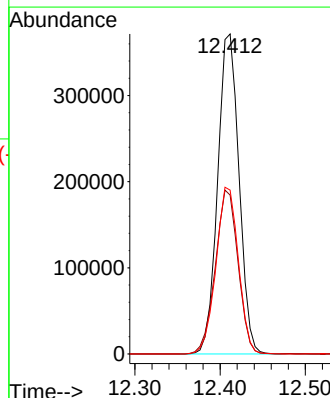
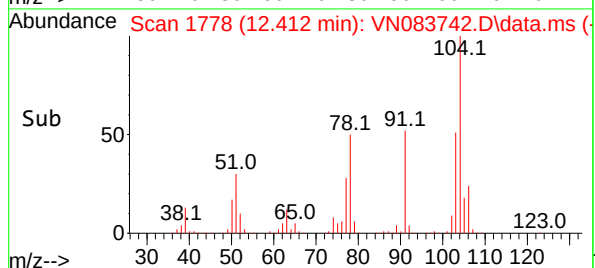
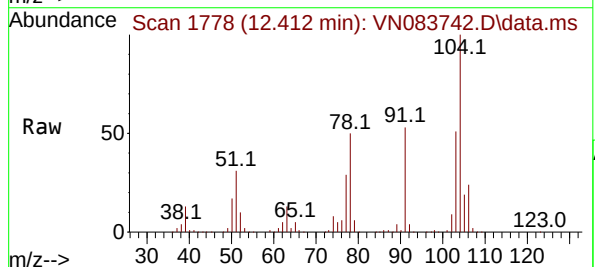
Tgt Ion:104 Resp: 646938

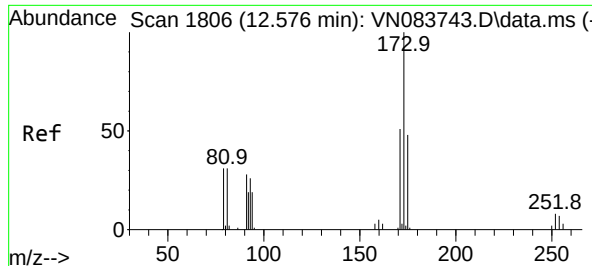
Ion Ratio Lower Upper

104 100

78 54.3 43.3 64.9

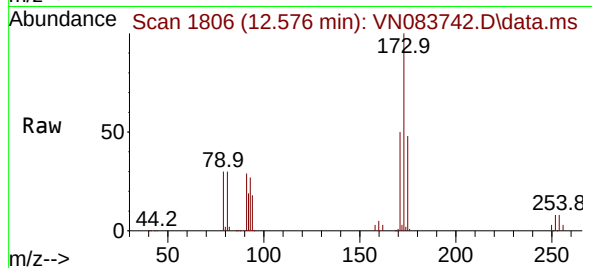
103 54.8 43.4 65.2





#71
Bromoform
Concen: 104.798 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

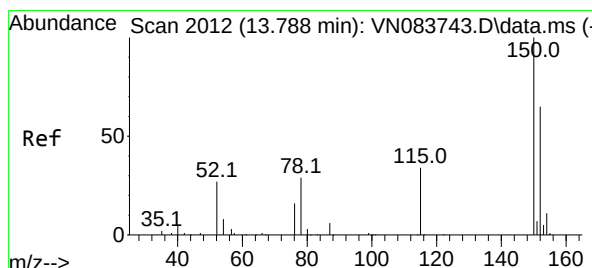
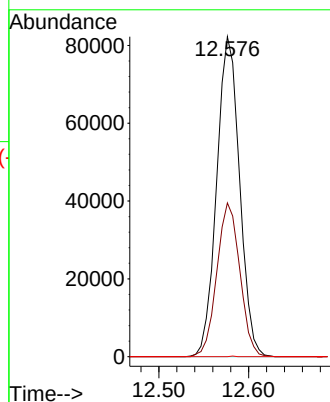
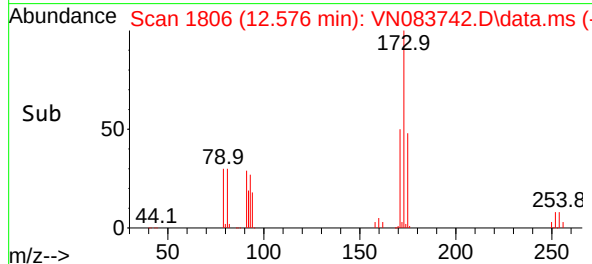
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:173 Resp: 145739
Ion Ratio Lower Upper
173 100
175 48.2 24.1 72.2
254 0.0 0.0 0.0

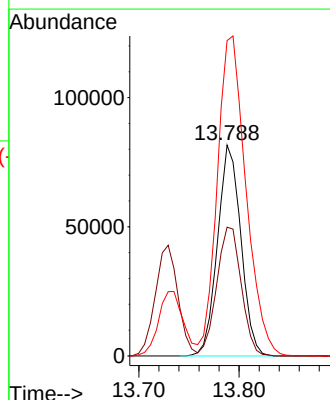
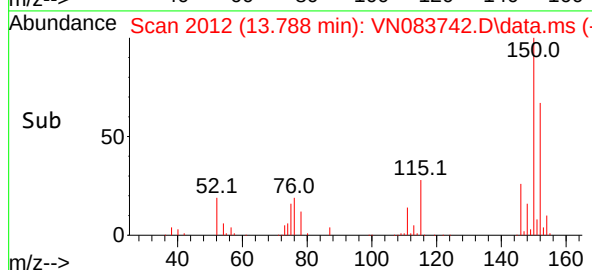
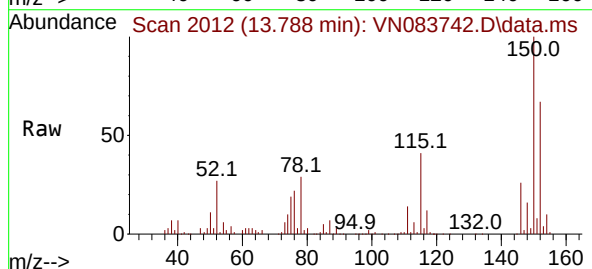
Manual Integrations
APPROVED

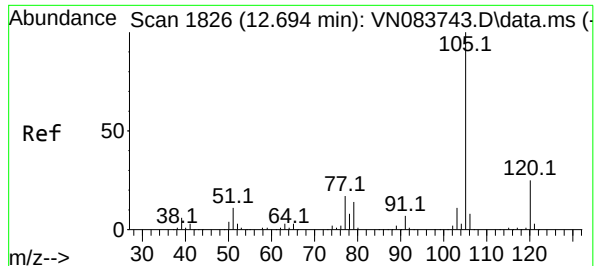
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

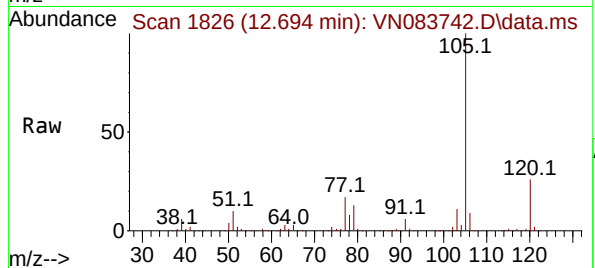
Tgt Ion:152 Resp: 131982
Ion Ratio Lower Upper
152 100
115 64.2 32.2 96.6
150 186.0 0.0 348.6





#73
Isopropylbenzene
Concen: 99.129 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

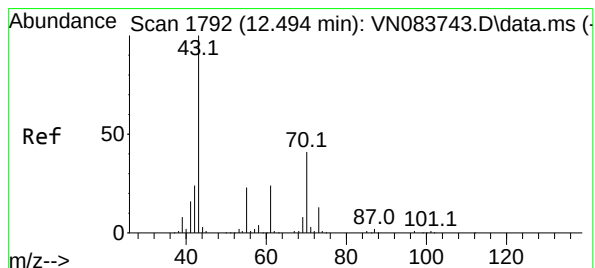
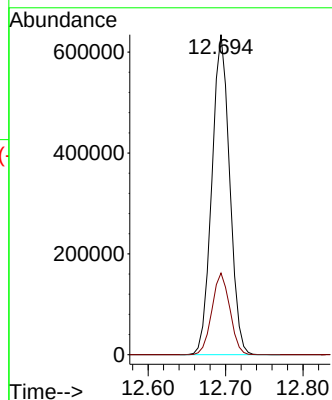
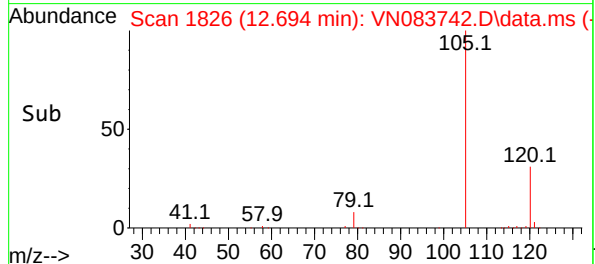
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:105 Resp: 1012200
Ion Ratio Lower Upper
105 100
120 25.6 12.6 37.8

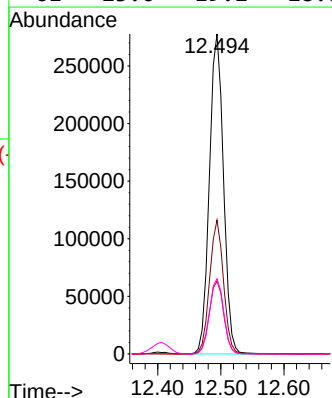
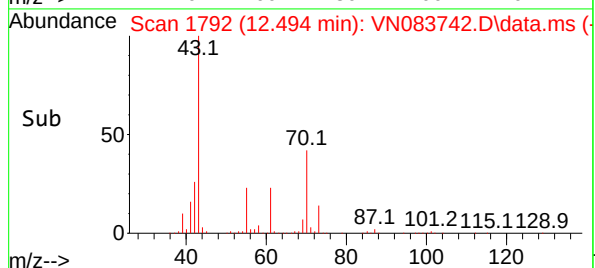
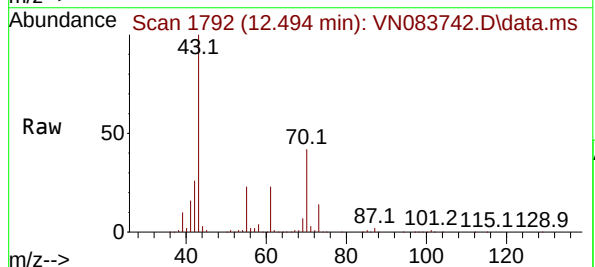
Manual Integrations
APPROVED

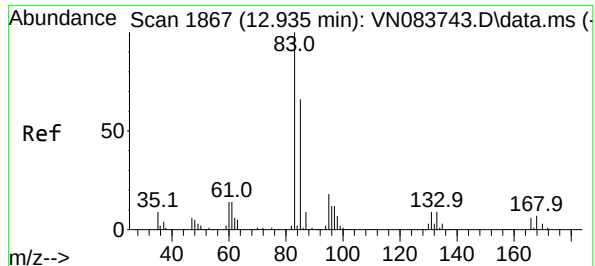
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#74
N-ethyl acetate
Concen: 98.846 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 43 Resp: 430629
Ion Ratio Lower Upper
43 100
70 41.2 34.5 51.7
55 23.2 18.6 28.0
61 23.6 19.2 28.8





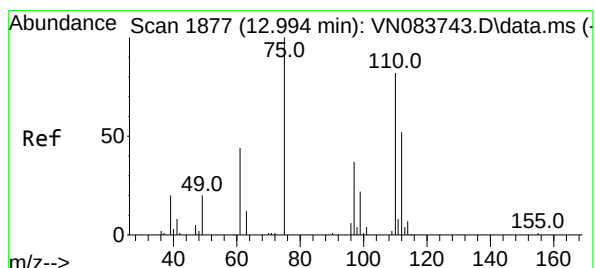
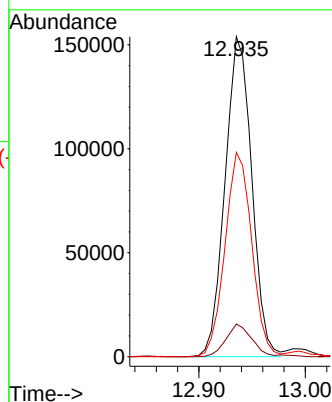
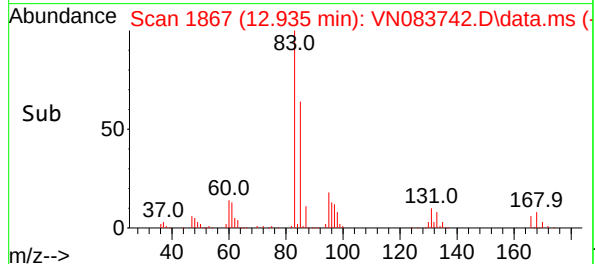
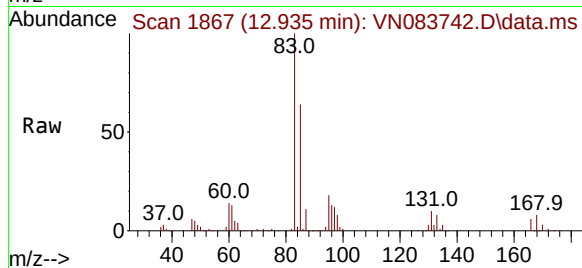
#75
1,1,2,2-Tetrachloroethane
Concen: 89.333 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 26801
Ion Ratio Lower Upper
83 100
131 10.1 5.2 15.6
85 64.0 31.9 95.9

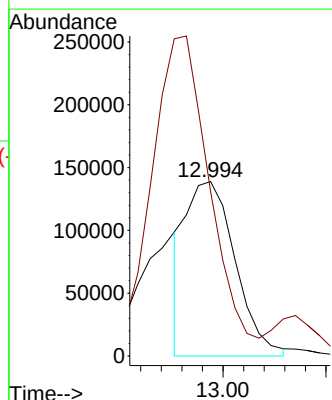
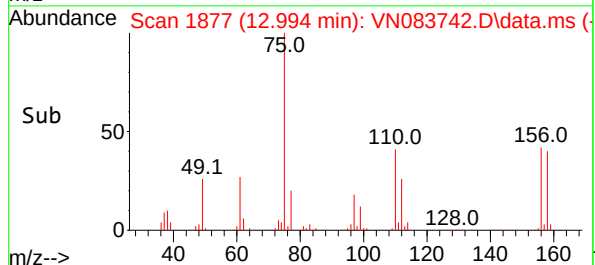
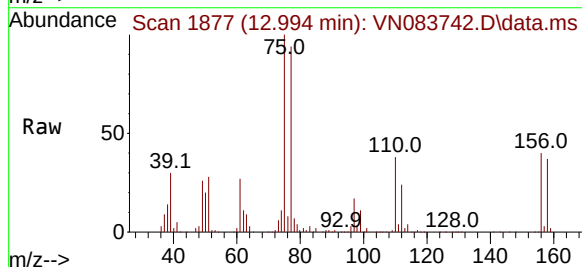
Manual Integrations
APPROVED

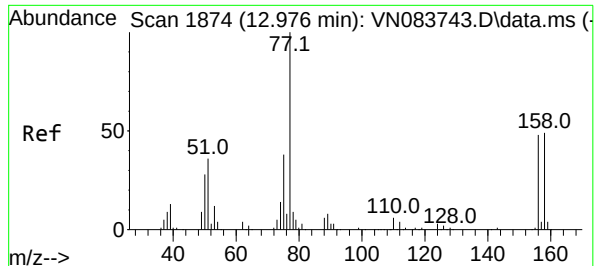
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#76
1,2,3-Trichloropropane
Concen: 86.812 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

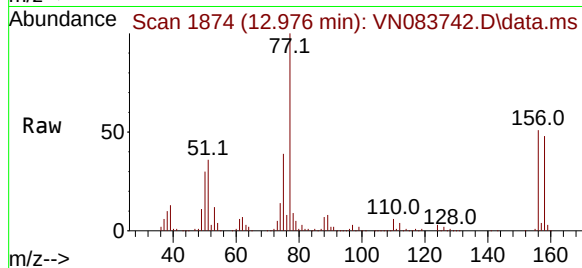
Tgt Ion: 75 Resp: 231193
Ion Ratio Lower Upper
75 100
77 218.4 95.2 285.6





#77
Bromobenzene
Concen: 90.289 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

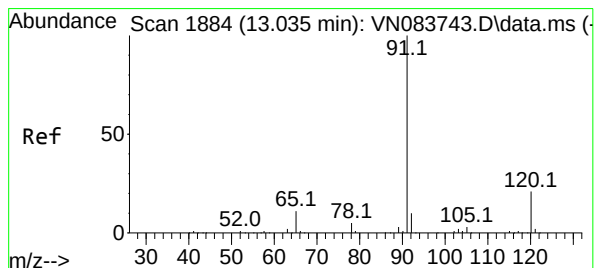
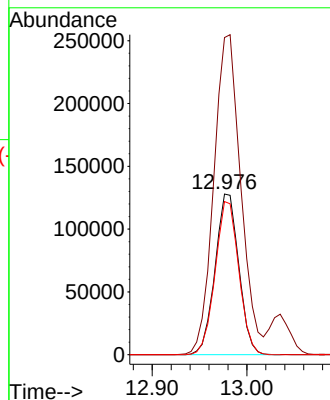
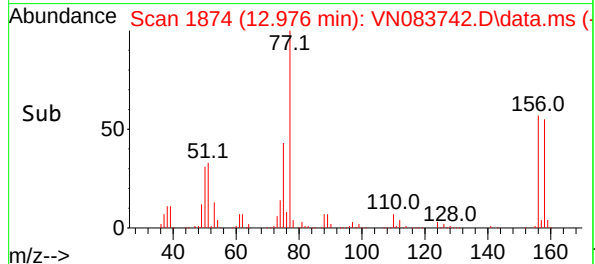
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:156 Resp: 221922
Ion Ratio Lower Upper
156 100
77 227.5 114.3 343.1
158 95.3 48.9 146.7

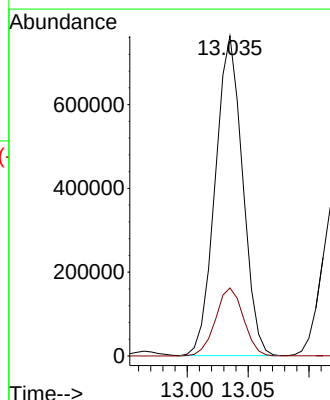
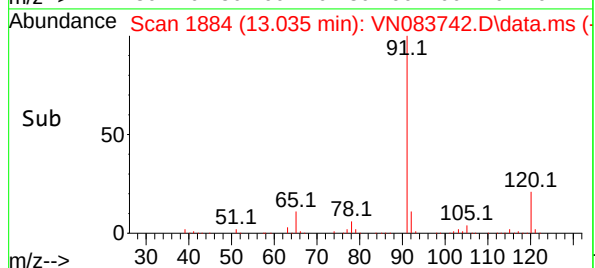
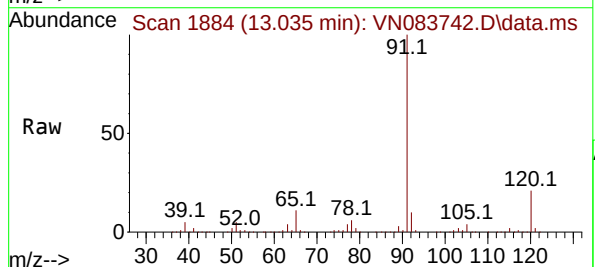
Manual Integrations
APPROVED

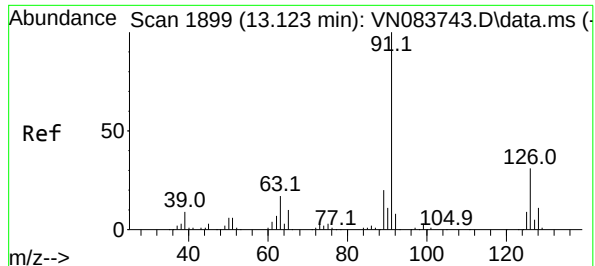
Reviewed By :John Carbone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#78
n-propylbenzene
Concen: 100.345 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 91 Resp: 1192155
Ion Ratio Lower Upper
91 100
120 21.7 11.0 33.0





#79

2-Chlorotoluene

Concen: 94.060 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 712679

Ion Ratio Lower Upper

91 100

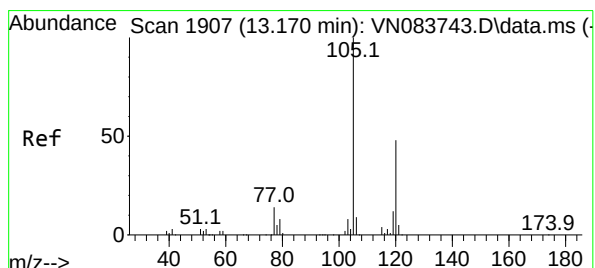
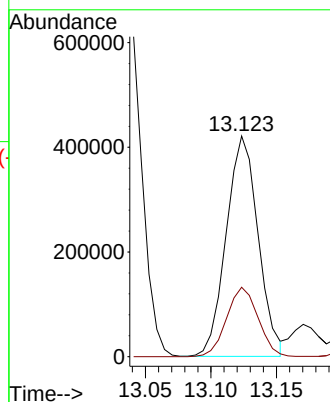
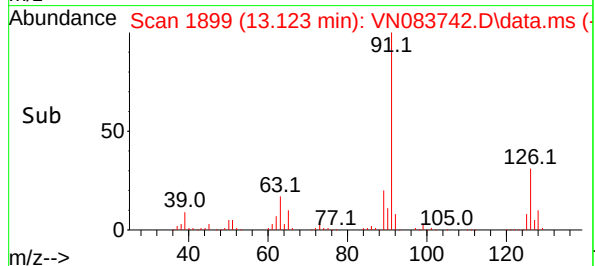
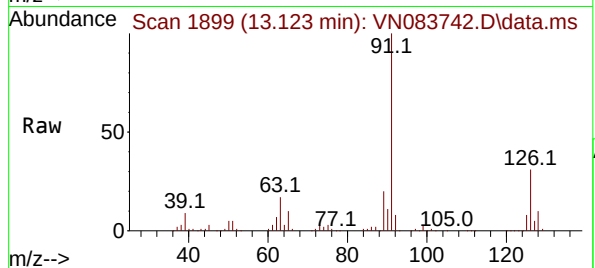
126 31.1 15.4 46.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#80

1,3,5-Trimethylbenzene

Concen: 98.252 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN083742.D

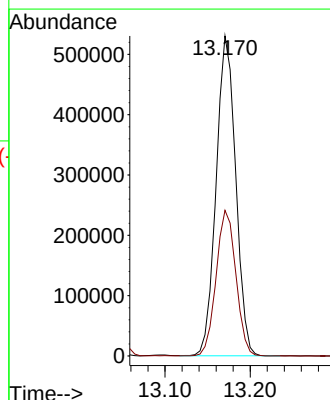
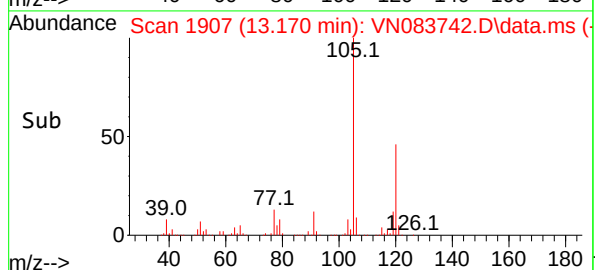
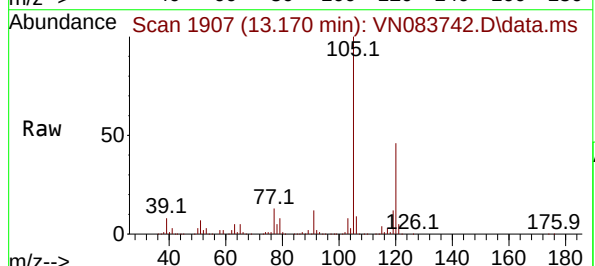
Acq: 10 Sep 2024 09:08

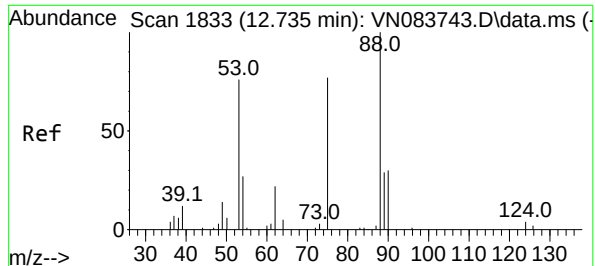
Tgt Ion:105 Resp: 845837

Ion Ratio Lower Upper

105 100

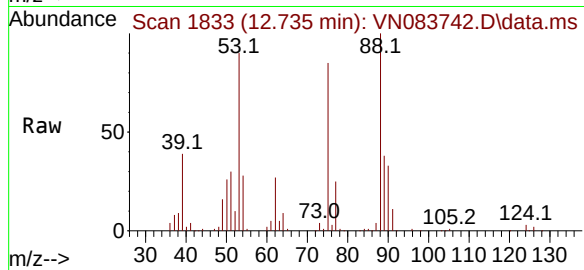
120 46.0 23.4 70.3





#81
trans-1,4-Dichloro-2-butene
Concen: 100.466 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

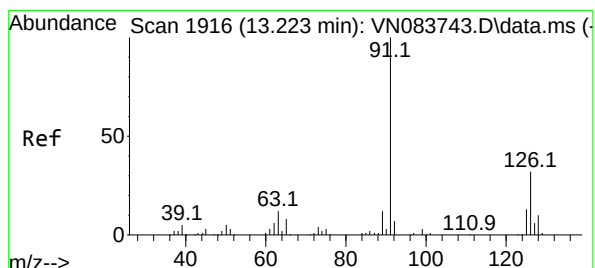
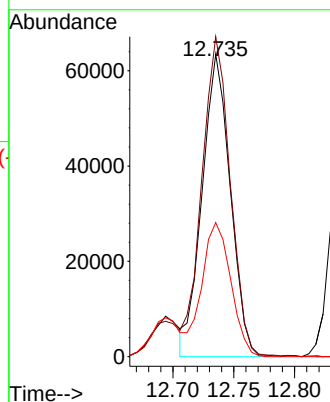
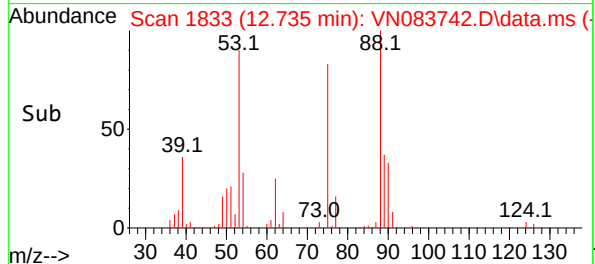
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 75 Resp: 102150
Ion Ratio Lower Upper
75 100
53 107.3 81.2 121.8
89 45.0 35.7 53.5

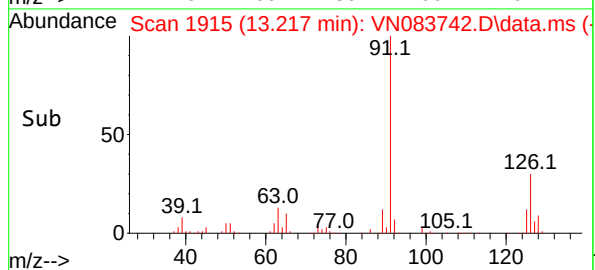
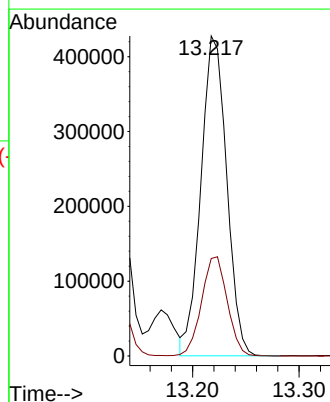
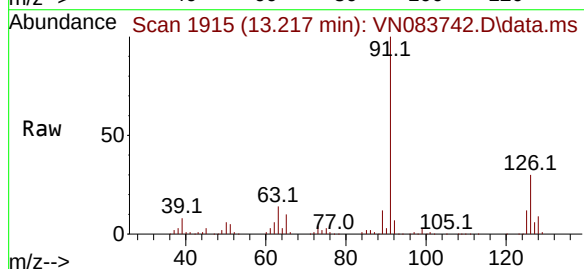
Manual Integrations
APPROVED

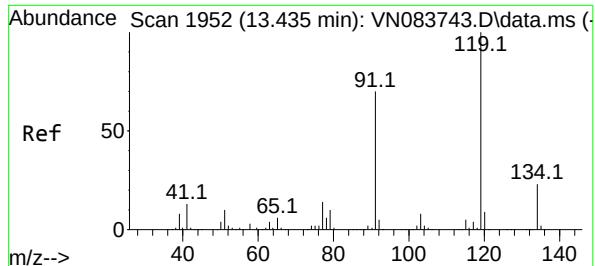
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#82
4-Chlorotoluene
Concen: 94.532 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

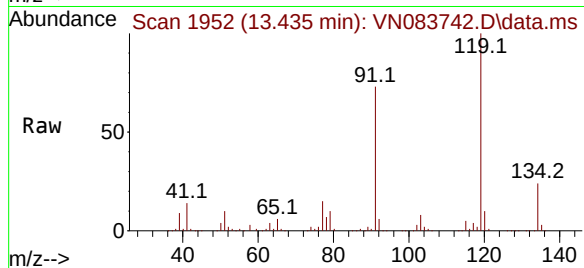
Tgt Ion: 91 Resp: 718771
Ion Ratio Lower Upper
91 100
126 31.1 15.4 46.2





#83
tert-Butylbenzene
Concen: 97.989 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

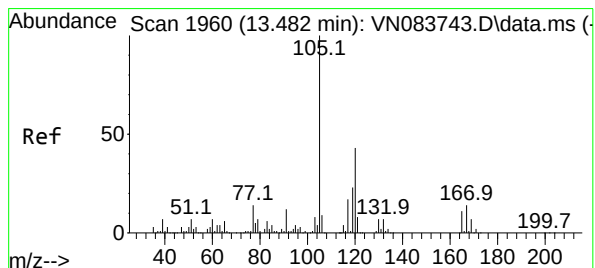
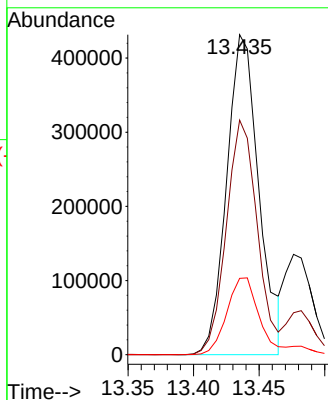
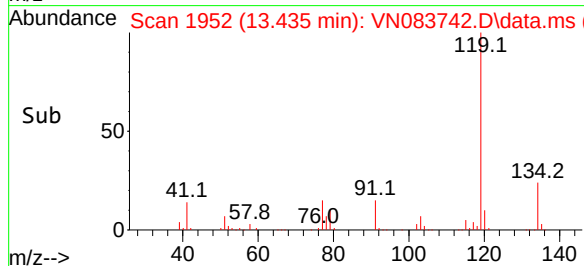
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:119 Resp: 738032
Ion Ratio Lower Upper
119 100
91 70.6 34.5 103.6
134 25.8 12.8 38.4

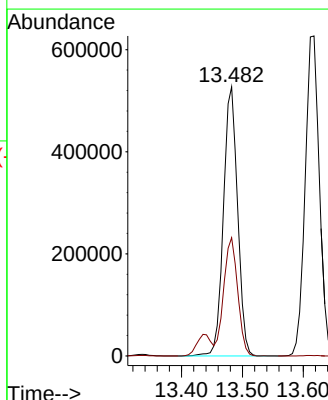
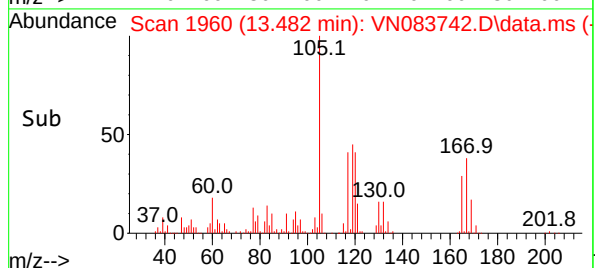
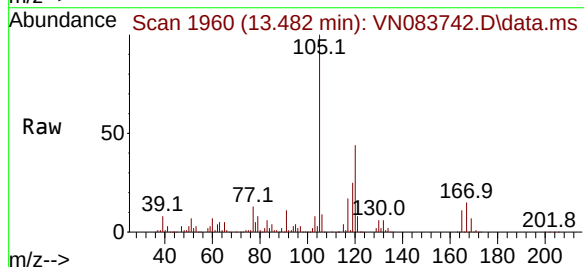
Manual Integrations
APPROVED

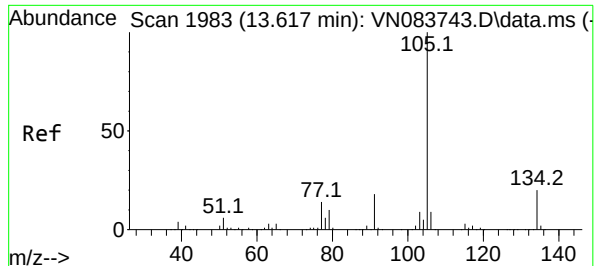
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#84
1,2,4-Trimethylbenzene
Concen: 98.439 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:105 Resp: 851267
Ion Ratio Lower Upper
105 100
120 43.5 21.8 65.4





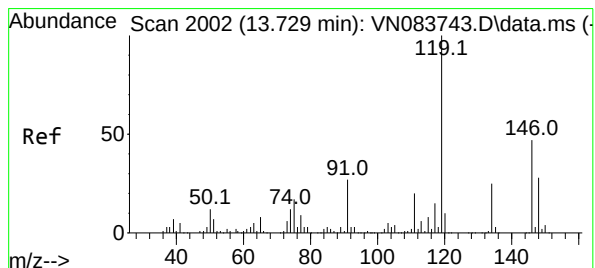
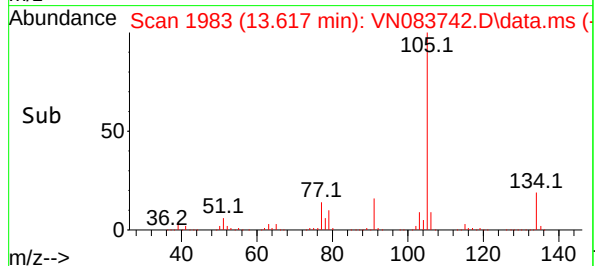
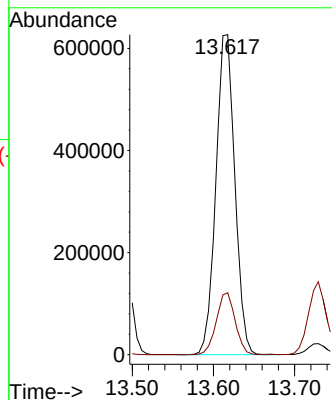
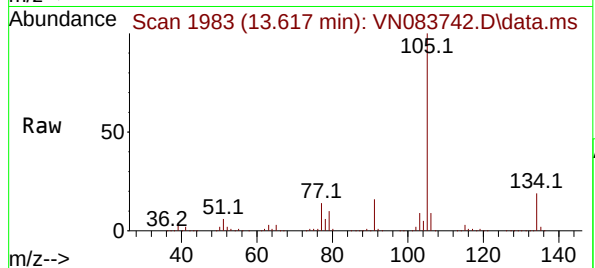
#85
sec-Butylbenzene
Concen: 101.889 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 101774
Ion Ratio Lower Upper
105 100
134 19.2 9.7 29.1

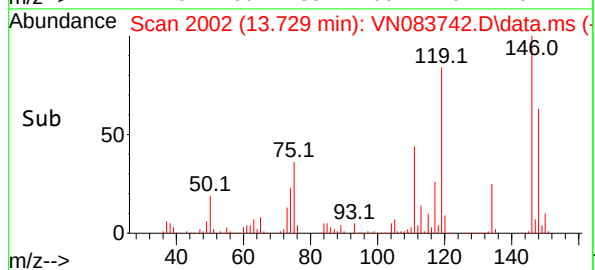
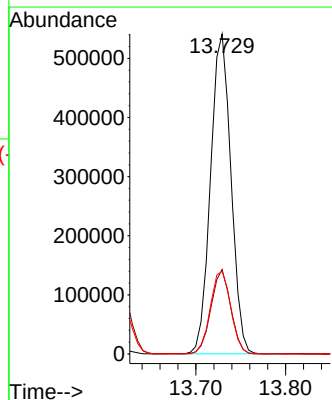
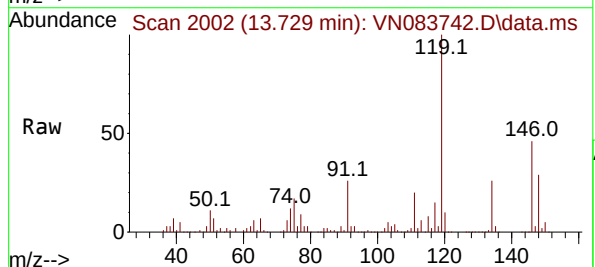
Manual Integrations
APPROVED

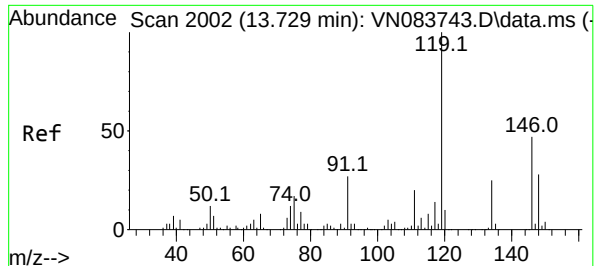
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#86
p-Isopropyltoluene
Concen: 102.048 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:119 Resp: 854481
Ion Ratio Lower Upper
119 100
134 25.5 12.8 38.3
91 26.1 12.9 38.7





#87

1,3-Dichlorobenzene

Concen: 89.760 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 416360

Ion Ratio Lower Upper

146 100

111 43.8 21.7 65.1

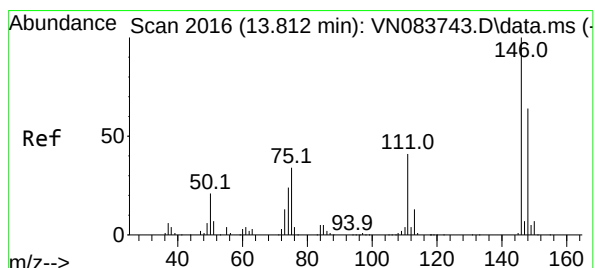
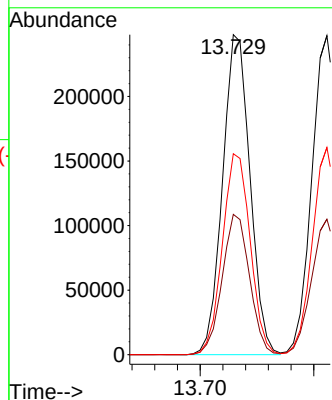
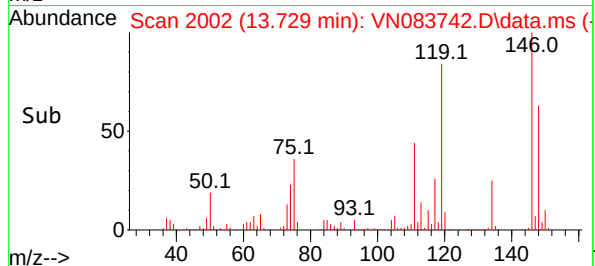
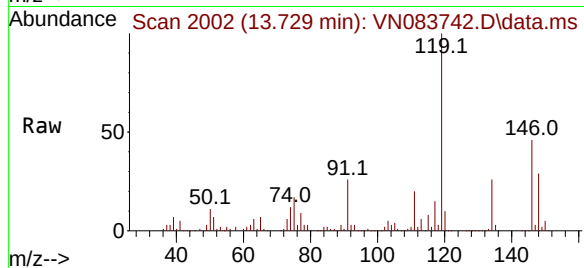
148 63.6 31.7 95.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#88

1,4-Dichlorobenzene

Concen: 89.123 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

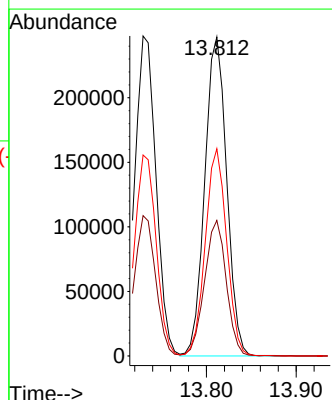
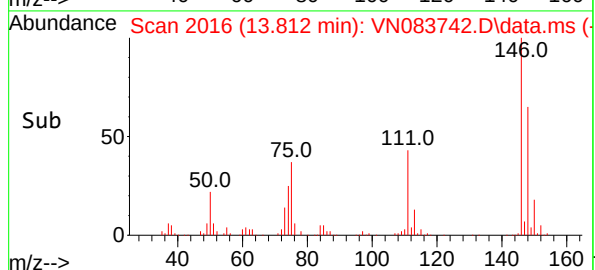
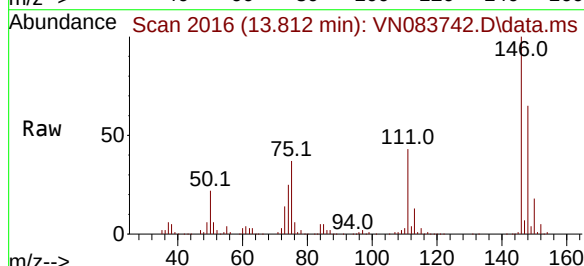
Tgt Ion:146 Resp: 418608

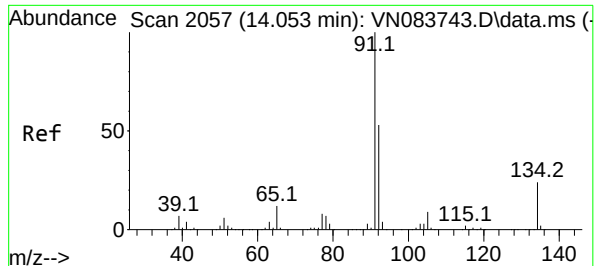
Ion Ratio Lower Upper

146 100

111 42.0 21.3 64.0

148 63.6 32.0 96.2





#89

n-Butylbenzene

Concen: 100.632 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN083742.D

Acq: 10 Sep 2024 09:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 75654

Ion Ratio Lower Upper

91 100

92 53.7 26.7 80.1

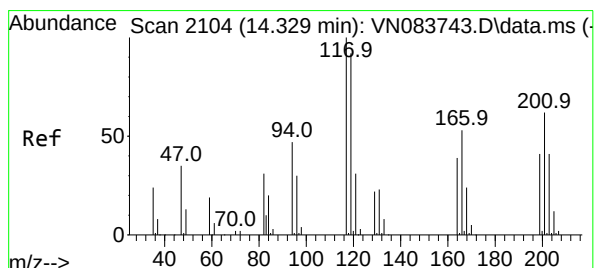
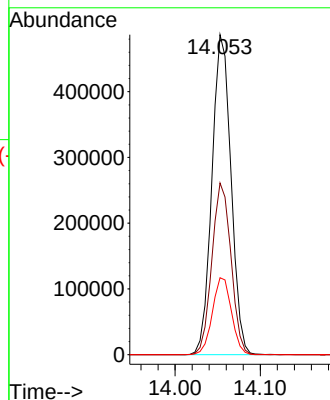
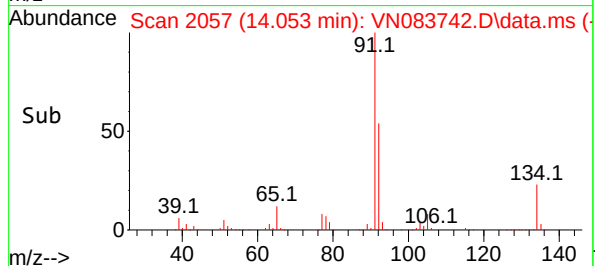
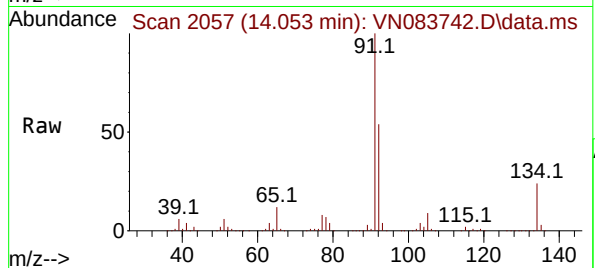
134 24.1 12.2 36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#90

Hexachloroethane

Concen: 95.312 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. 0.006 min

Lab File: VN083742.D

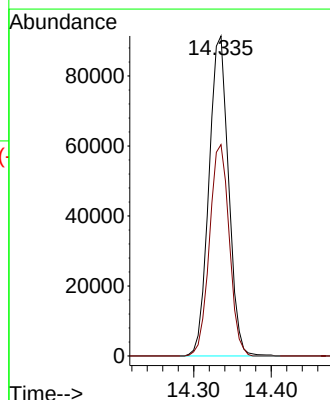
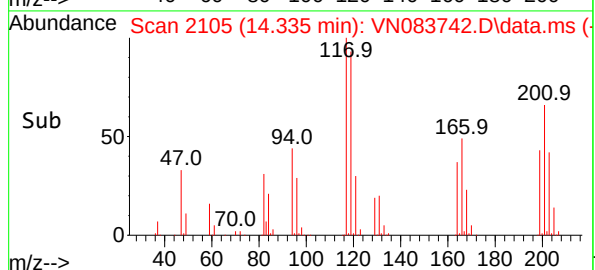
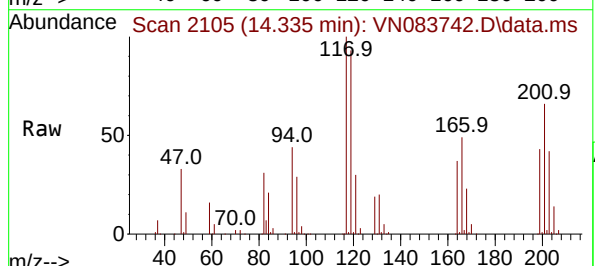
Acq: 10 Sep 2024 09:08

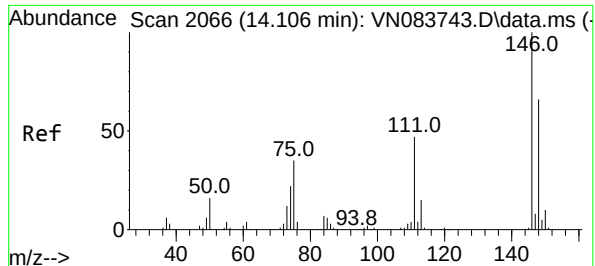
Tgt Ion:117 Resp: 160428

Ion Ratio Lower Upper

117 100

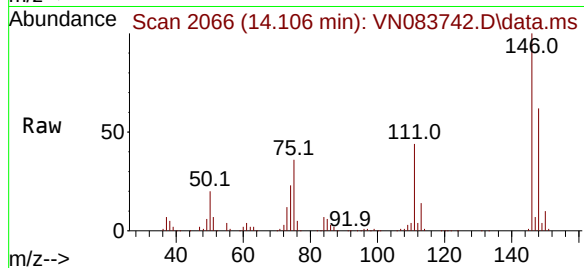
201 66.5 32.8 98.3





#91
1,2-Dichlorobenzene
Concen: 92.608 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

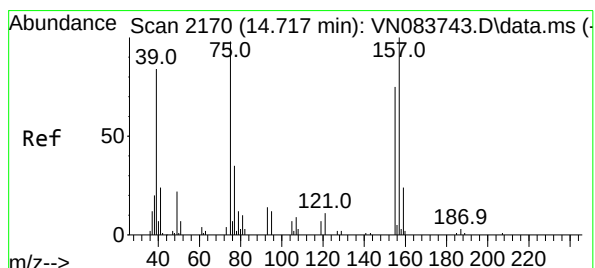
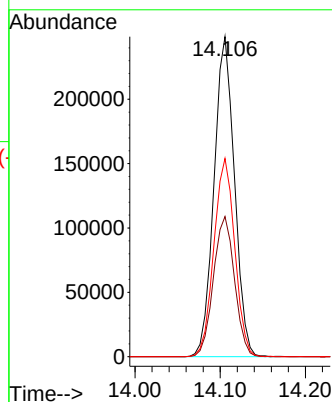
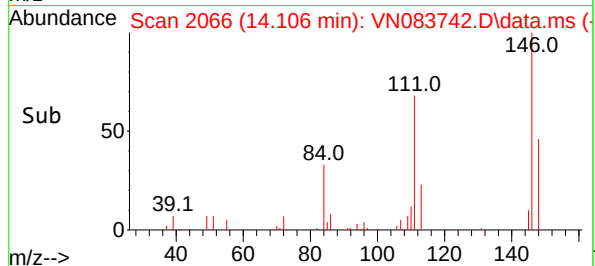
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:146 Resp: 414582
Ion Ratio Lower Upper
146 100
111 45.1 22.8 68.3
148 63.1 32.1 96.5

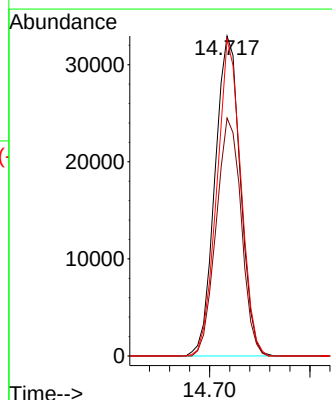
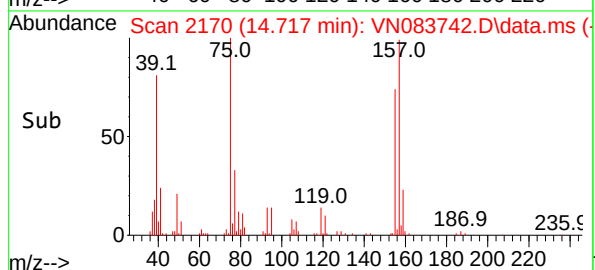
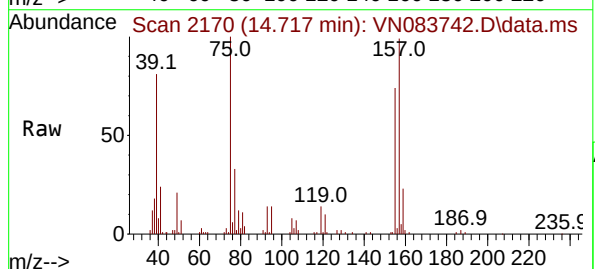
Manual Integrations
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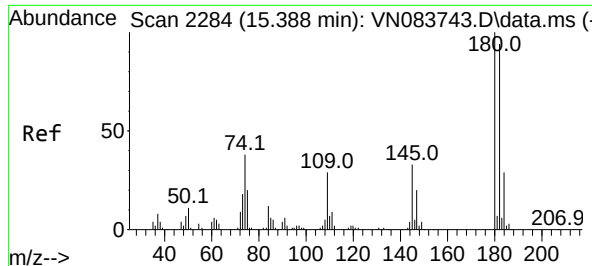
Reviewed By :John Carbone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 96.804 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

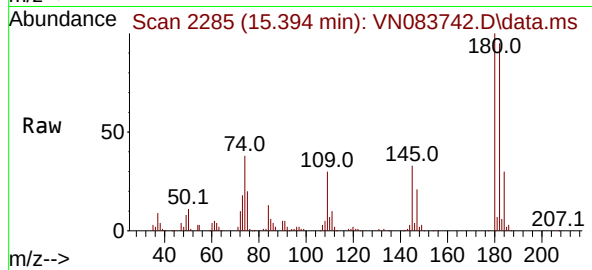
Tgt Ion: 75 Resp: 57895
Ion Ratio Lower Upper
75 100
155 73.4 35.9 107.7
157 93.3 47.5 142.5





#93
1,2,4-Trichlorobenzene
Concen: 94.607 ug/l
RT: 15.394 min Scan# 2284
Delta R.T. 0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

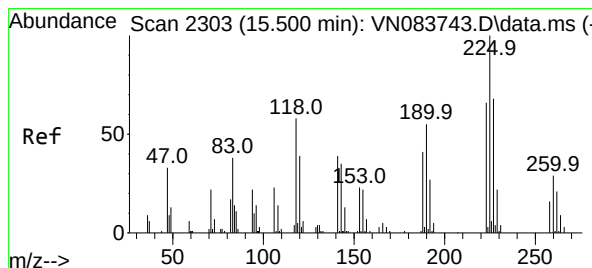
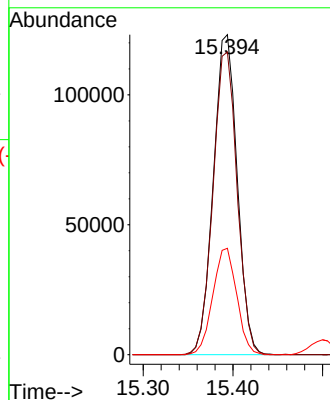
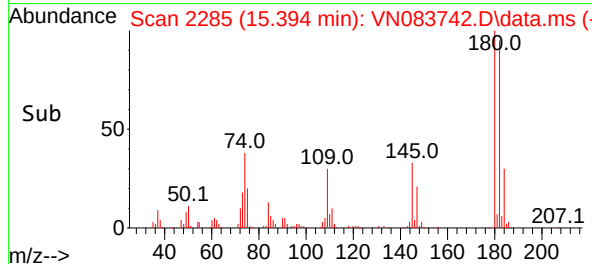
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:180 Resp: 227270
Ion Ratio Lower Upper
180 100
182 95.6 48.1 144.3
145 33.4 16.9 50.7

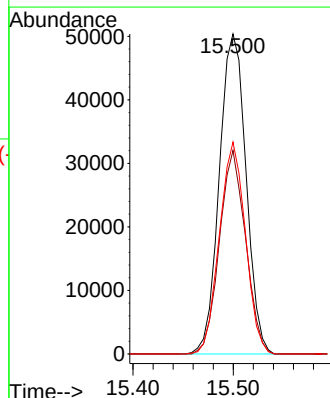
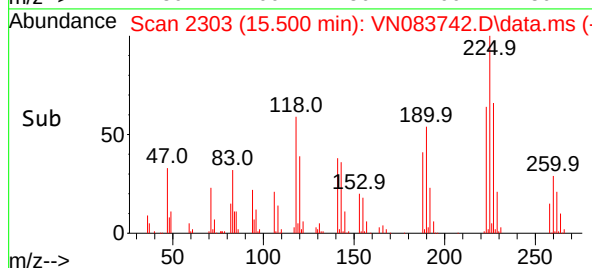
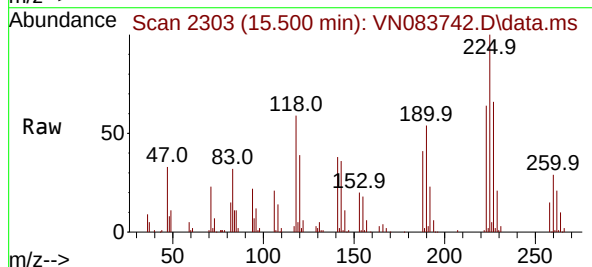
Manual Integrations
APPROVED

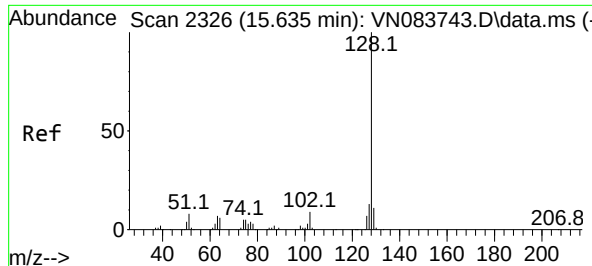
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#94
Hexachlorobutadiene
Concen: 91.182 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

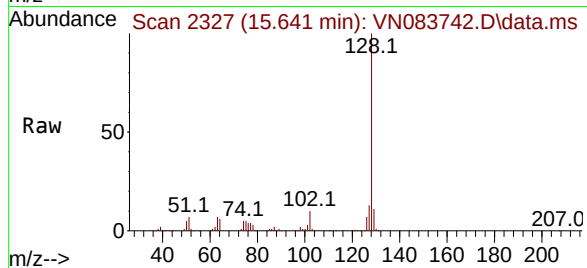
Tgt Ion:225 Resp: 93025
Ion Ratio Lower Upper
225 100
223 62.1 31.9 95.5
227 64.5 32.0 96.2





#95
Naphthalene
Concen: 98.492 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

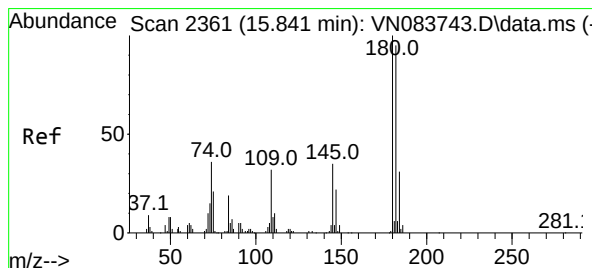
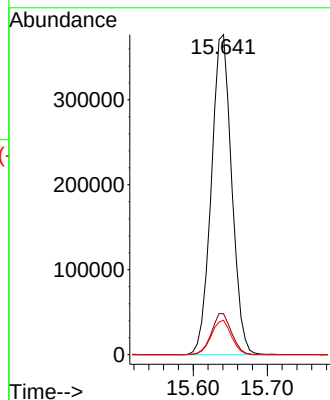
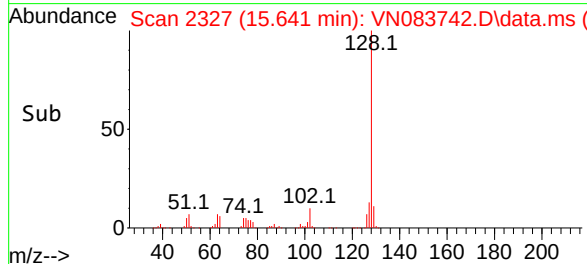
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:128 Resp: 71985
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 10.6 8.7 13.1

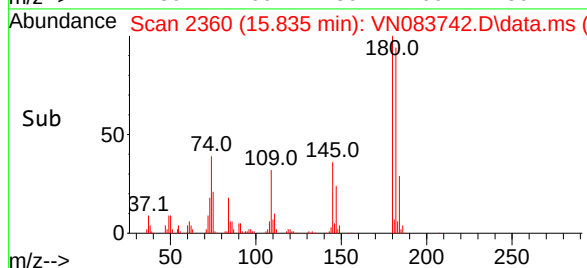
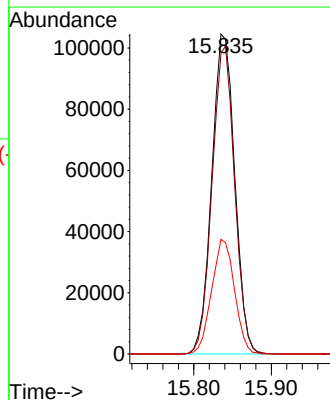
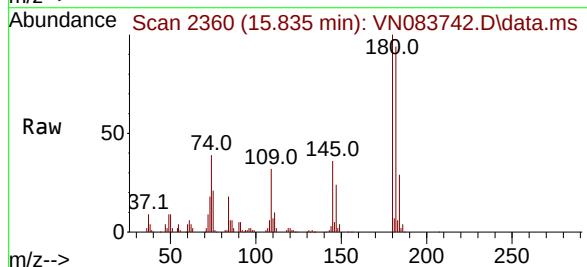
Manual Integrations
APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#96
1,2,3-Trichlorobenzene
Concen: 93.670 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:180 Resp: 215058
Ion Ratio Lower Upper
180 100
182 94.5 47.1 141.4
145 35.7 17.8 53.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
 Data File : VN083743.D
 Acq On : 10 Sep 2024 09:32
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/11/2024
 Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:54:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 01:38:19 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	172686	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	304866	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	265988	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	127433	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	146624	56.310	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.620%			
35) Dibromofluoromethane	8.165	113	103536	53.049	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.100%			
50) Toluene-d8	10.565	98	387600	57.446	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 114.900%#			
62) 4-Bromofluorobenzene	12.847	95	148654	53.401	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.800%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	103740	51.728	ug/l	99
3) Chloromethane	2.359	50	107608	52.642	ug/l	99
4) Vinyl Chloride	2.512	62	113364	51.571	ug/l	97
5) Bromomethane	2.906	94	61931	49.070	ug/l	98
6) Chloroethane	3.083	64	74441	48.814	ug/l	100
7) Trichlorofluoromethane	3.471	101	183864	49.276	ug/l	98
8) Diethyl Ether	3.953	74	63376	50.670	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.353	101	101147	51.143	ug/l	97
10) Methyl Iodide	4.577	142	131056	52.103	ug/l	96
11) Tert butyl alcohol	5.530	59	87546	251.078	ug/l	99
12) 1,1-Dichloroethene	4.330	96	96478	51.654	ug/l	93
13) Acrolein	4.171	56	89867	261.217	ug/l	98
14) Allyl chloride	5.018	41	172508	51.834	ug/l	99
15) Acrylonitrile	5.718	53	237803	250.783	ug/l	99
16) Acetone	4.430	43	256758	245.978	ug/l	100
17) Carbon Disulfide	4.700	76	264217	50.571	ug/l	100
18) Methyl Acetate	5.024	43	115167	53.068	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	346063	51.202	ug/l	98
20) Methylene Chloride	5.271	84	105124	49.214	ug/l	93
21) trans-1,2-Dichloroethene	5.777	96	100281	50.098	ug/l	93
22) Diisopropyl ether	6.671	45	354685	51.771	ug/l	98
23) Vinyl Acetate	6.600	43	1334972	266.082	ug/l	99
24) 1,1-Dichloroethane	6.559	63	197743	50.099	ug/l	99
25) 2-Butanone	7.483	43	339457	247.428	ug/l	100
26) 2,2-Dichloropropane	7.483	77	188830	51.949	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	123764	52.085	ug/l	99
28) Bromochloromethane	7.812	49	90626	54.522	ug/l	98
29) Tetrahydrofuran	7.836	42	208523	257.049	ug/l	97
30) Chloroform	7.959	83	210873	50.323	ug/l	96
31) Cyclohexane	8.253	56	175569	46.653	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	196328	50.954	ug/l	100
36) 1,1-Dichloropropene	8.371	75	143931	48.996	ug/l	100
37) Ethyl Acetate	7.559	43	139729	52.402	ug/l	98
38) Carbon Tetrachloride	8.359	117	171174	51.362	ug/l	97
39) Methylcyclohexane	9.600	83	174544	52.200	ug/l	99
40) Benzene	8.600	78	439364	49.691	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
 Data File : VN083743.D
 Acq On : 10 Sep 2024 09:32
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/11/2024
 Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:54:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 01:38:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	80473	51.026	ug/l	99
42) 1,2-Dichloroethane	8.671	62	166416	50.370	ug/l	99
43) Isopropyl Acetate	8.688	43	242653	50.218	ug/l	97
44) Trichloroethene	9.353	130	103614	50.604	ug/l	99
45) 1,2-Dichloropropane	9.618	63	106419	49.798	ug/l	98
46) Dibromomethane	9.706	93	77488	51.768	ug/l	98
47) Bromodichloromethane	9.888	83	167396	51.674	ug/l	99
48) Methyl methacrylate	9.677	41	115324	50.305	ug/l	98
49) 1,4-Dioxane	9.694	88	36620	971.017	ug/l #	96
51) 4-Methyl-2-Pentanone	10.441	43	675474	256.804	ug/l	98
52) Toluene	10.629	92	276845	51.189	ug/l	97
53) t-1,3-Dichloropropene	10.835	75	170271	51.855	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	178747	51.823	ug/l	99
55) 1,1,2-Trichloroethane	11.018	97	100040	49.547	ug/l	98
56) Ethyl methacrylate	10.871	69	169686	54.624	ug/l	99
57) 1,3-Dichloropropane	11.159	76	175459	50.562	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	264081	235.930	ug/l	99
59) 2-Hexanone	11.194	43	501507	257.751	ug/l	99
60) Dibromochloromethane	11.359	129	119533	52.899	ug/l #	10
61) 1,2-Dibromoethane	11.465	107	101248	50.281	ug/l	100
64) Tetrachloroethene	11.100	164	85484	48.327	ug/l	98
65) Chlorobenzene	11.888	112	290168	49.084	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	104718	51.096	ug/l	99
67) Ethyl Benzene	11.965	91	539737	51.395	ug/l	99
68) m/p-Xylenes	12.071	106	401299	102.926	ug/l	99
69) o-Xylene	12.394	106	196721	52.119	ug/l	98
70) Styrene	12.412	104	330888	53.417	ug/l	99
71) Bromoform	12.576	173	74017	53.596	ug/l #	99
73) Isopropylbenzene	12.694	105	519478	52.691	ug/l	100
74) N-amyl acetate	12.494	43	221603	52.682	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	139525	48.166	ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	120040m	46.684	ug/l	
77) Bromobenzene	12.976	156	114527	48.259	ug/l	98
78) n-propylbenzene	13.035	91	606410	52.864	ug/l	99
79) 2-Chlorotoluene	13.123	91	368645	50.391	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	435677	52.415	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	52353	53.325	ug/l	97
82) 4-Chlorotoluene	13.223	91	375734	51.180	ug/l	99
83) tert-Butylbenzene	13.435	119	384034	52.809	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	443899	53.164	ug/l	100
85) sec-Butylbenzene	13.617	105	520441	53.962	ug/l	100
86) p-Isopropyltoluene	13.729	119	439355	54.344	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	221915	49.548	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	221827	48.914	ug/l	99
89) n-Butylbenzene	14.053	91	382538	52.700	ug/l	100
90) Hexachloroethane	14.329	117	81825	50.348	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	215156	49.777	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	30218	52.330	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	118780	51.209	ug/l	98
94) Hexachlorobutadiene	15.500	225	47681	48.405	ug/l	99
95) Naphthalene	15.635	128	384390	54.471	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	114047	51.447	ug/l	98

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Data File : VN083743.D
Acq On : 10 Sep 2024 09:32
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:54:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

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

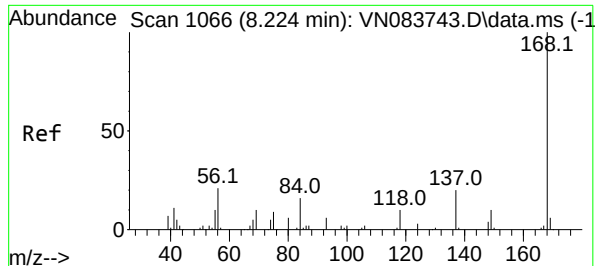
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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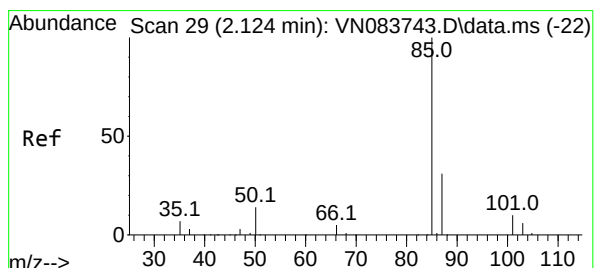
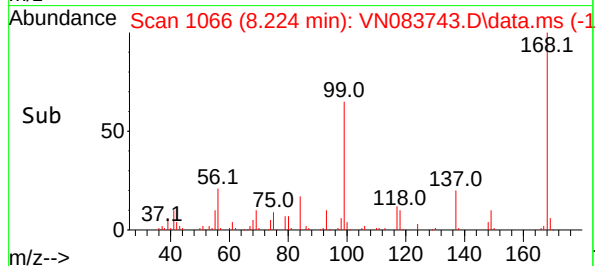
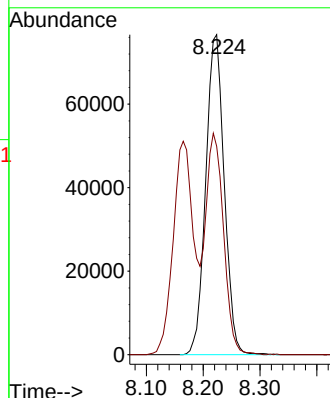
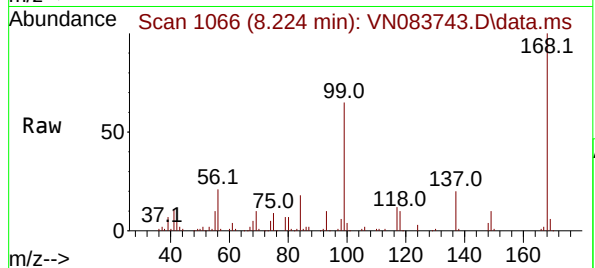
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 172680
Ion Ratio Lower Upper
168 100
99 65.1 54.2 81.2

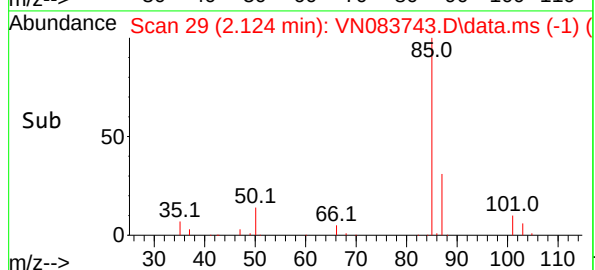
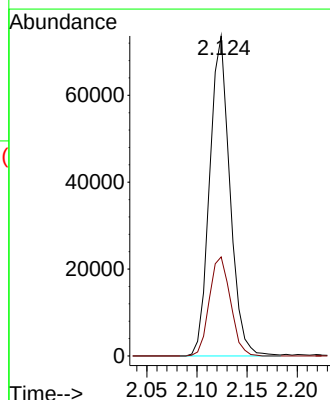
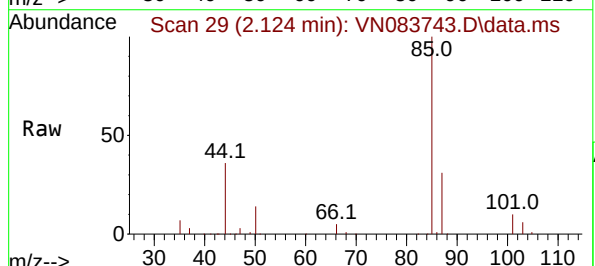
Manual Integrations
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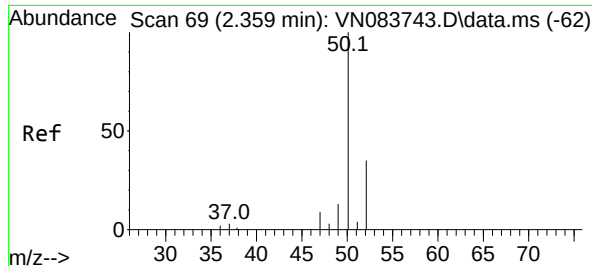
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#2
Dichlorodifluoromethane
Concen: 51.728 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 85 Resp: 103740
Ion Ratio Lower Upper
85 100
87 31.0 15.7 47.0





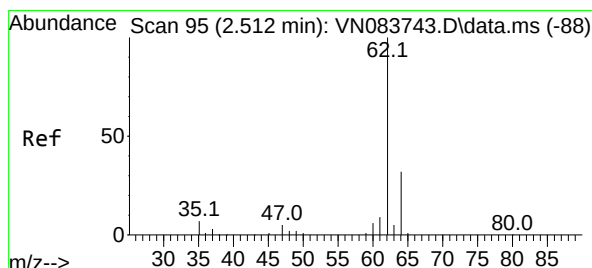
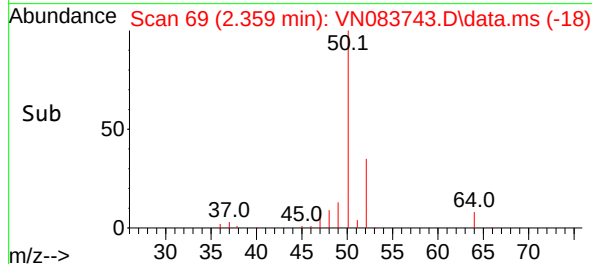
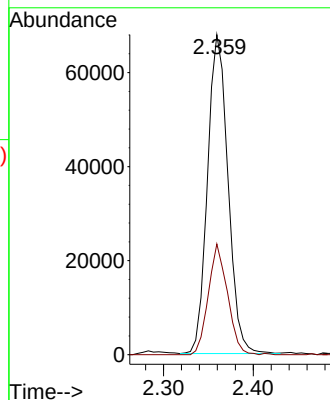
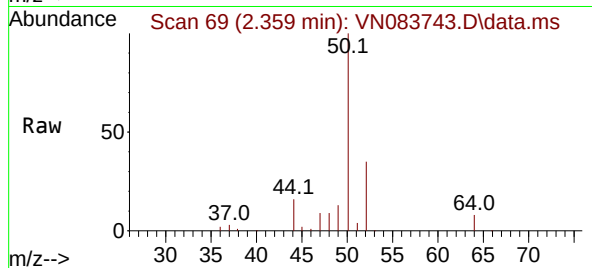
#3
Chloromethane
Concen: 52.642 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 107608
Ion Ratio Lower Upper
50 100
52 34.7 27.2 40.8

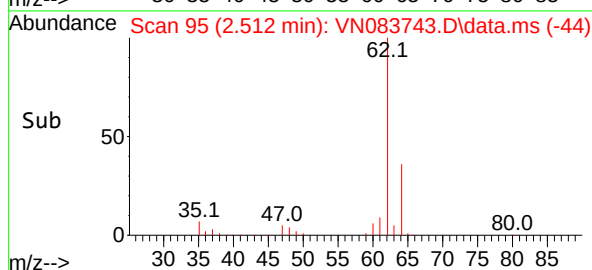
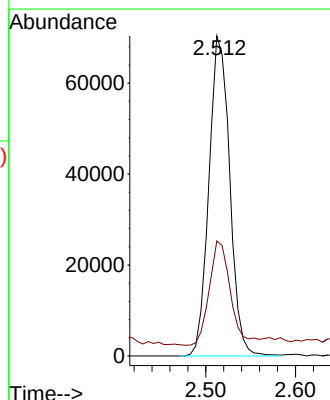
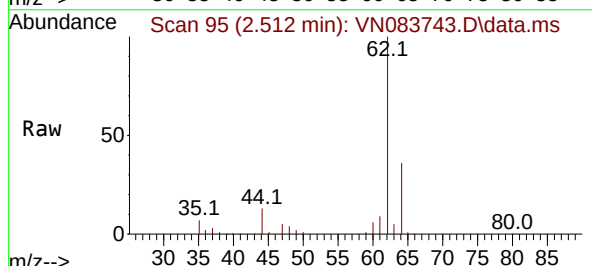
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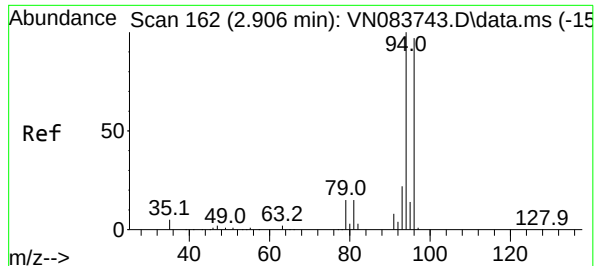
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#4
Vinyl Chloride
Concen: 51.571 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 62 Resp: 113364
Ion Ratio Lower Upper
62 100
64 32.5 24.7 37.1





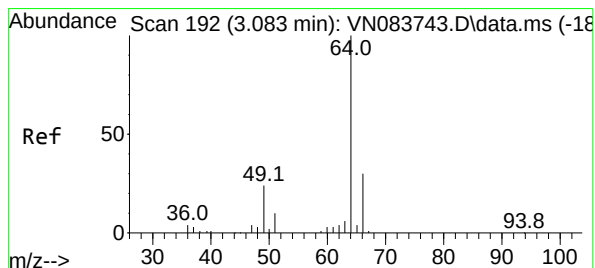
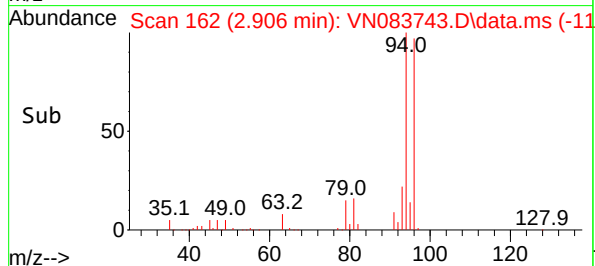
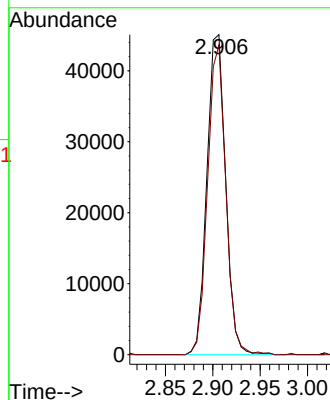
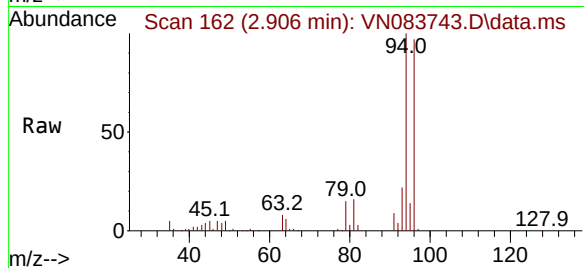
#5
Bromomethane
Concen: 49.070 ug/l
RT: 2.906 min Scan# 162
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 61933
Ion Ratio Lower Upper
94 100
96 96.8 76.0 114.0

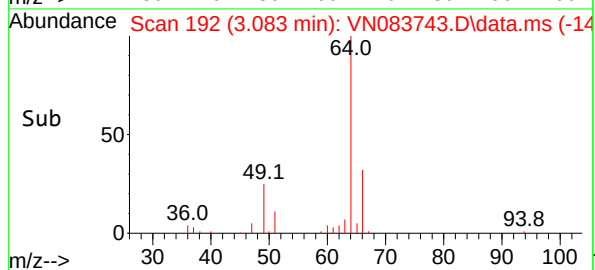
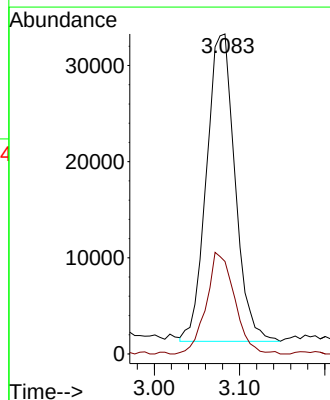
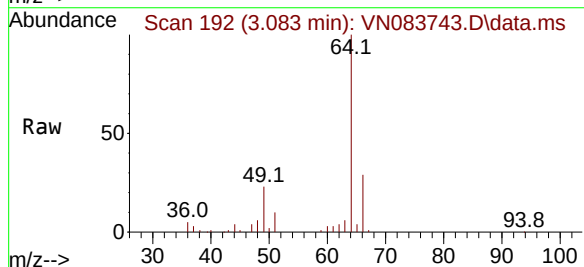
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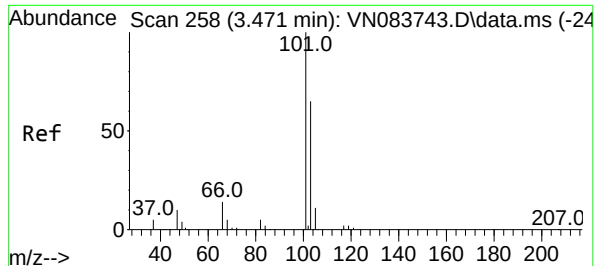
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#6
Chloroethane
Concen: 48.814 ug/l
RT: 3.083 min Scan# 192
Delta R.T. -0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

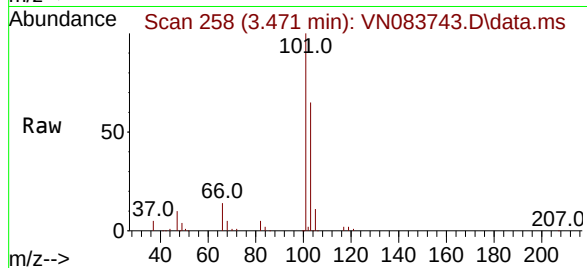
Tgt Ion: 64 Resp: 74441
Ion Ratio Lower Upper
64 100
66 30.1 23.9 35.9





#7
Trichlorofluoromethane
Concen: 49.276 ug/l
RT: 3.471 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

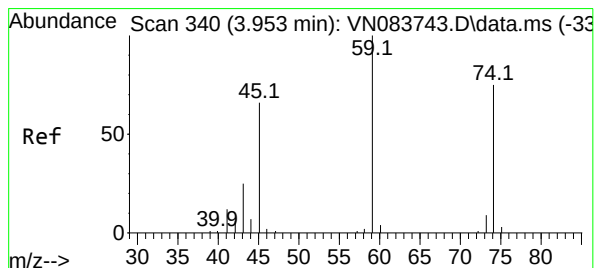
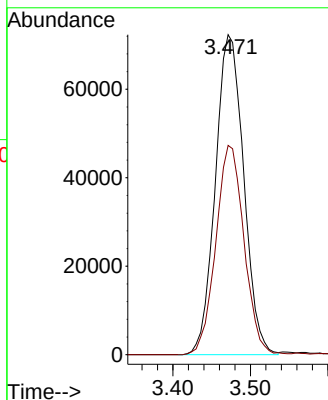
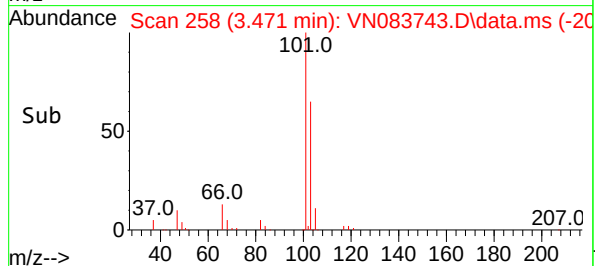
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 101 Resp: 183864
Ion Ratio Lower Upper
101 100
103 65.4 51.4 77.0

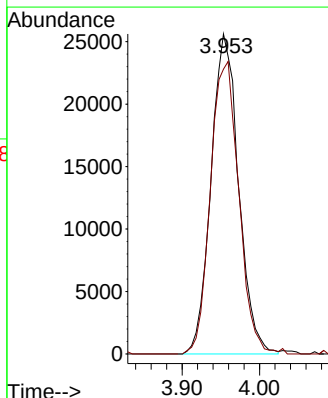
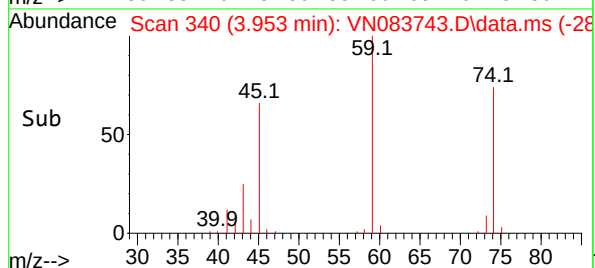
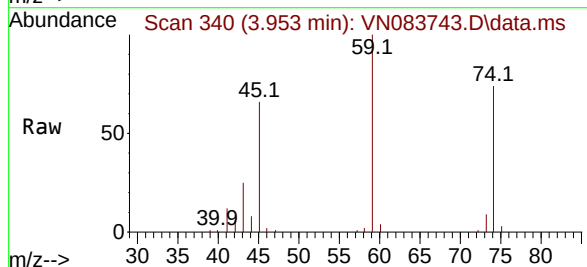
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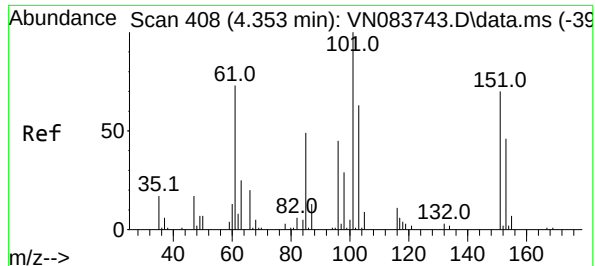
Reviewed By : John Carlone 09/11/2024
Supervised By : Semsettin Yesilyurt 09/11/2024



#8
Diethyl Ether
Concen: 50.670 ug/l
RT: 3.953 min Scan# 340
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 74 Resp: 63376
Ion Ratio Lower Upper
74 100
45 94.3 46.7 140.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.143 ug/l

RT: 4.353 min Scan# 408

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:101 Resp: 10114

Ion Ratio Lower Upper

101 100

85 48.5 36.2 54.4

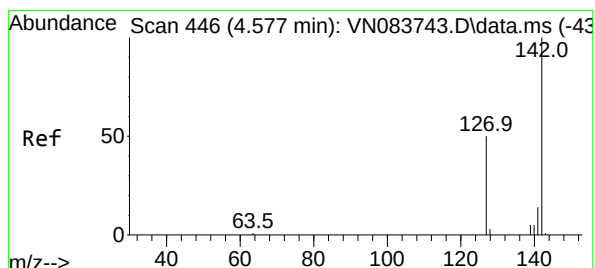
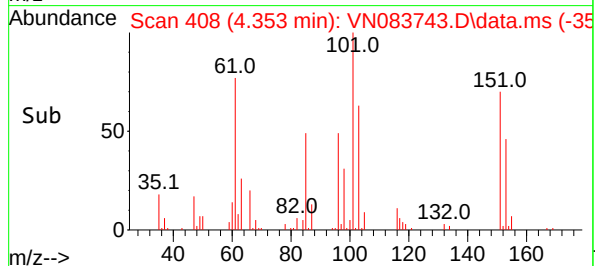
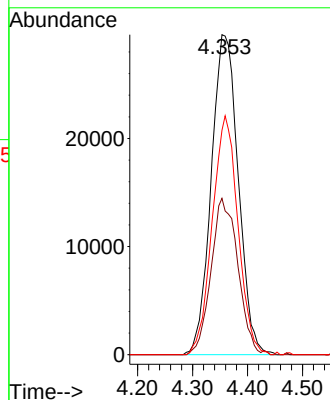
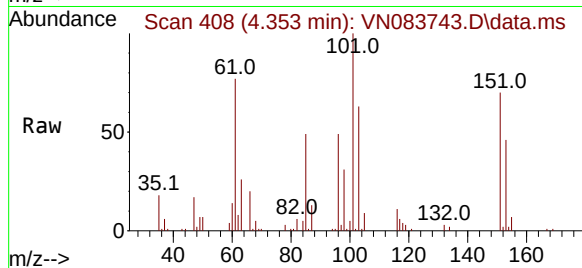
151 71.0 57.7 86.5

Manual Integrations

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Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#10

Methyl Iodide

Concen: 52.103 ug/l

RT: 4.577 min Scan# 446

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

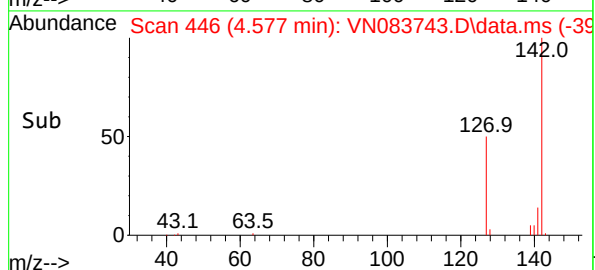
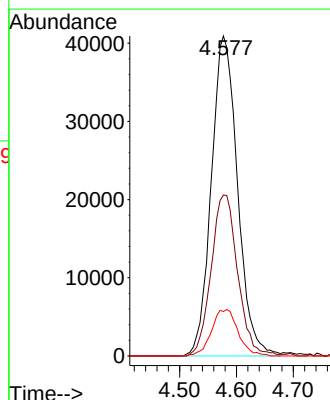
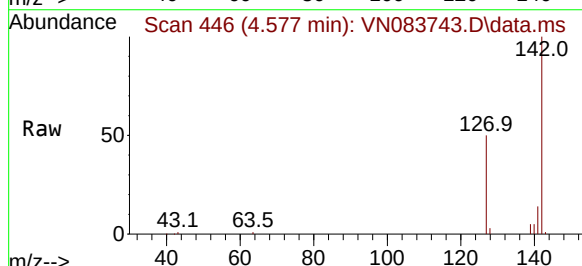
Tgt Ion:142 Resp: 131056

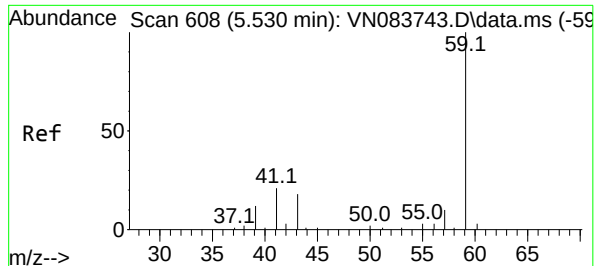
Ion Ratio Lower Upper

142 100

127 50.3 37.5 56.3

141 13.9 11.0 16.4





#11

Tert butyl alcohol

Concen: 251.078 ug/l

RT: 5.530 min Scan# 608

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 87540

Ion Ratio Lower Upper

59 100

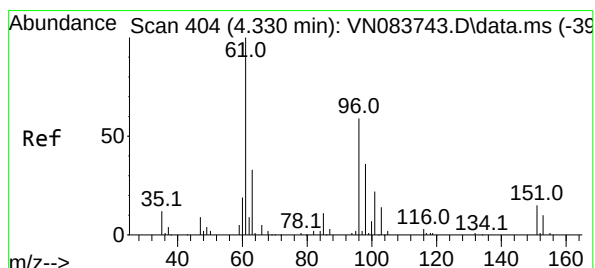
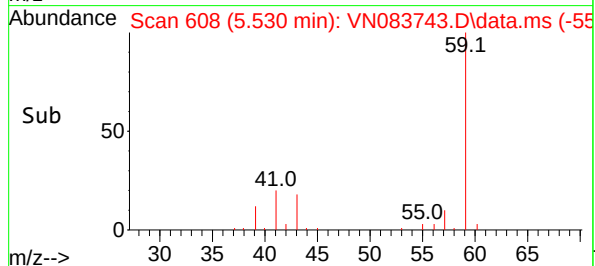
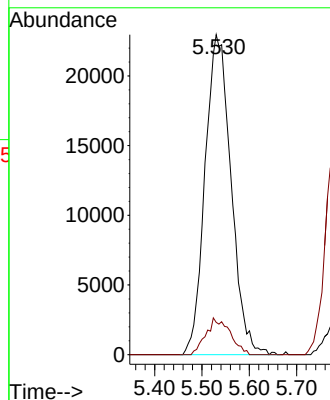
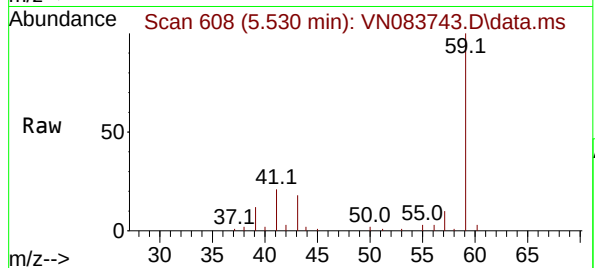
57 10.6 8.7 13.1

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Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#12

1,1-Dichloroethene

Concen: 51.654 ug/l

RT: 4.330 min Scan# 404

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

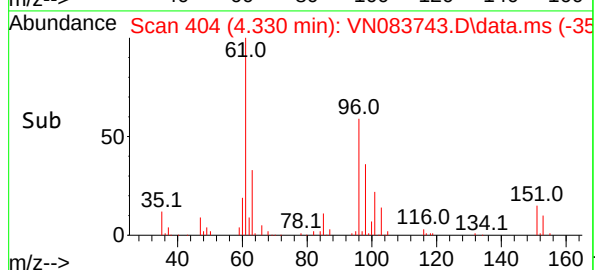
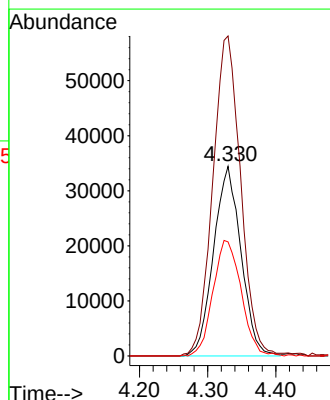
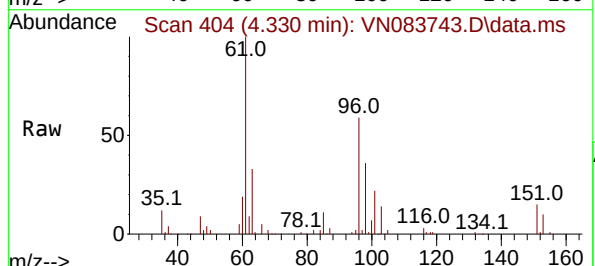
Tgt Ion: 96 Resp: 96478

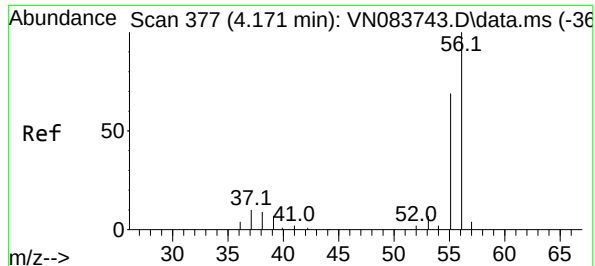
Ion Ratio Lower Upper

96 100

61 168.8 143.4 215.0

98 60.1 52.7 79.1





#13

Acrolein

Concen: 261.217 ug/l

RT: 4.171 min Scan# 31

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 8986

Ion Ratio Lower Upper

56 100

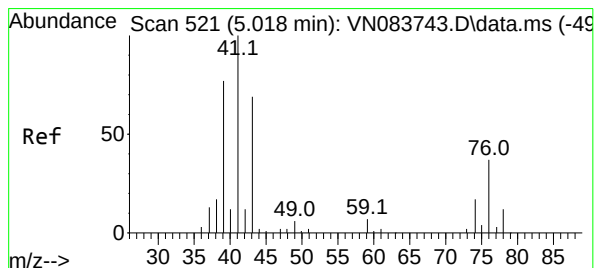
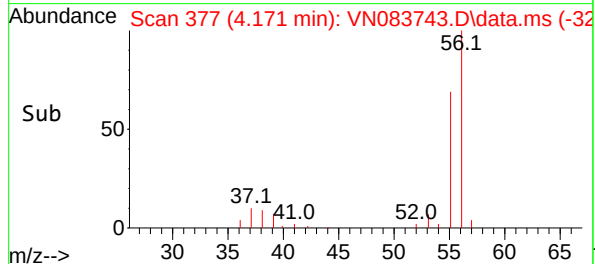
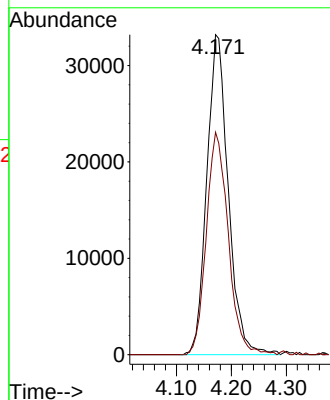
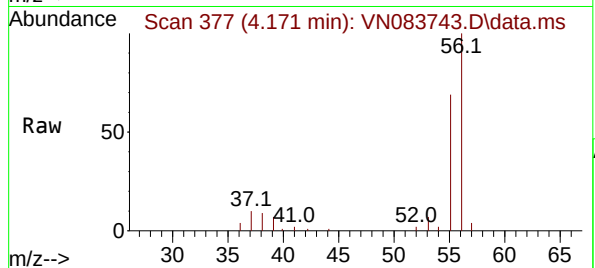
55 71.2 58.2 87.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#14

Allyl chloride

Concen: 51.834 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

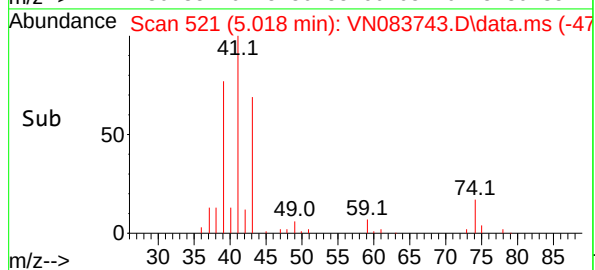
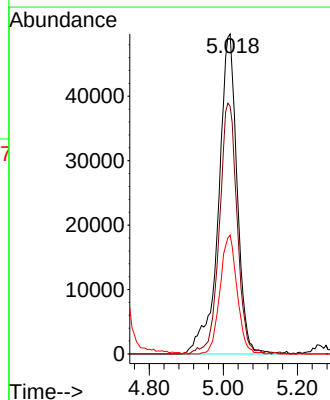
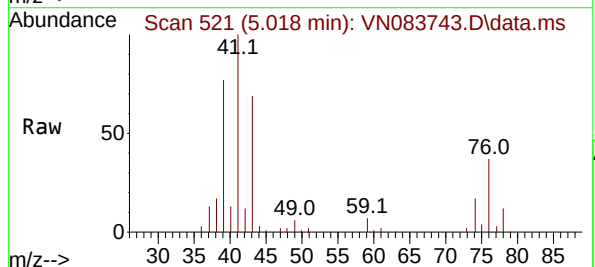
Tgt Ion: 41 Resp: 172508

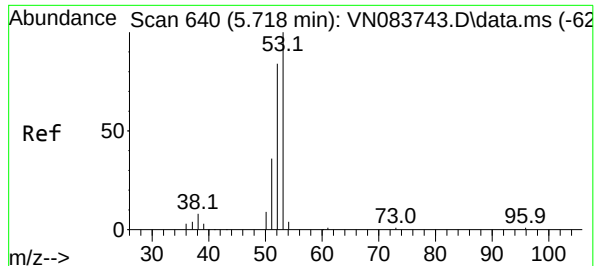
Ion Ratio Lower Upper

41 100

39 74.7 59.3 88.9

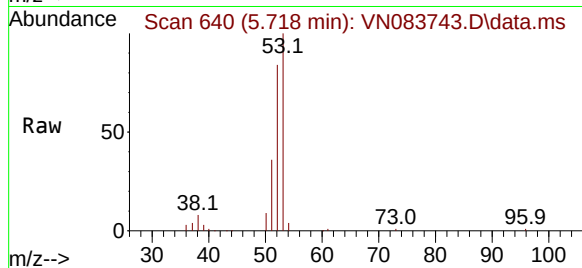
76 34.1 27.7 41.5





#15
Acrylonitrile
Concen: 250.783 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

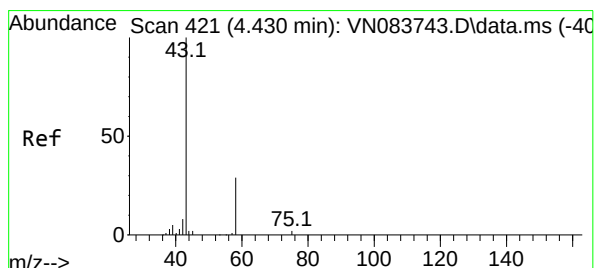
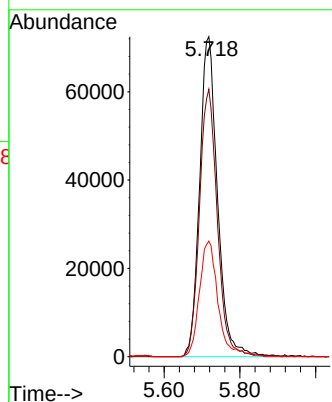
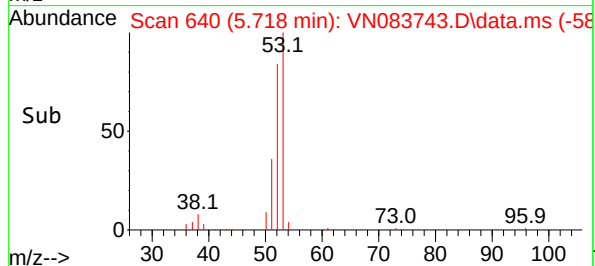
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 53 Resp: 23780
Ion Ratio Lower Upper
53 100
52 83.2 66.1 99.1
51 37.8 29.6 44.4

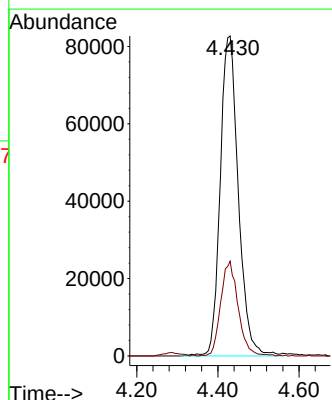
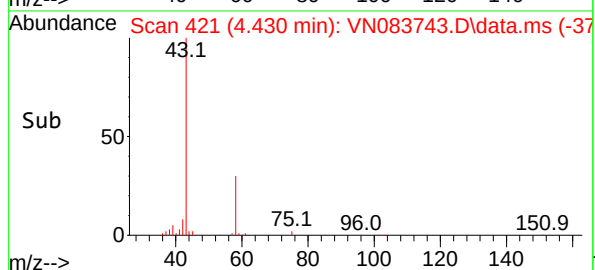
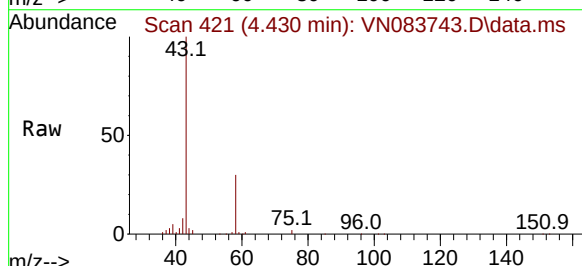
Manual Integrations
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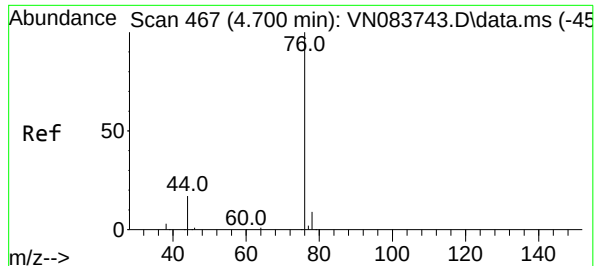
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#16
Acetone
Concen: 245.978 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

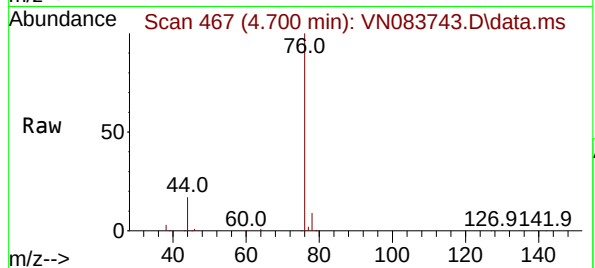
Tgt Ion: 43 Resp: 256758
Ion Ratio Lower Upper
43 100
58 29.4 23.7 35.5





#17
Carbon Disulfide
Concen: 50.571 ug/l
RT: 4.700 min Scan# 467
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

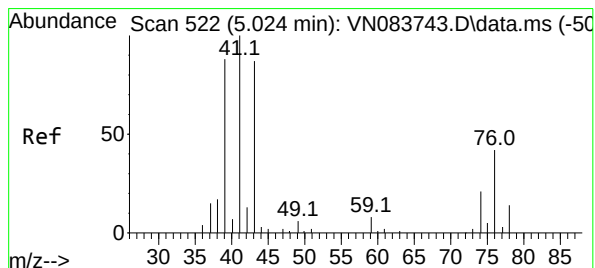
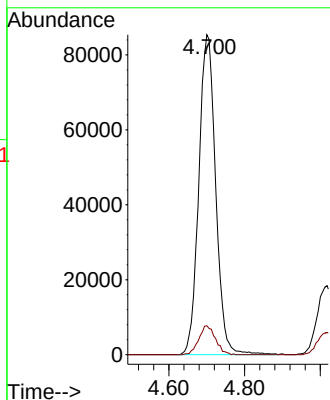
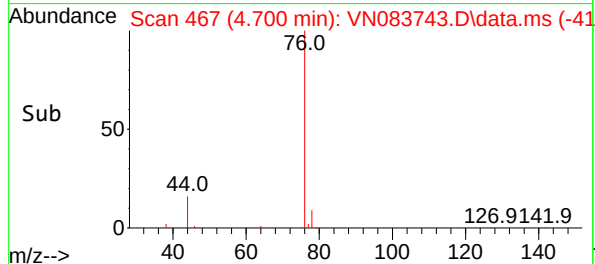
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 76 Resp: 26421
Ion Ratio Lower Upper
76 100
78 9.0 7.1 10.7

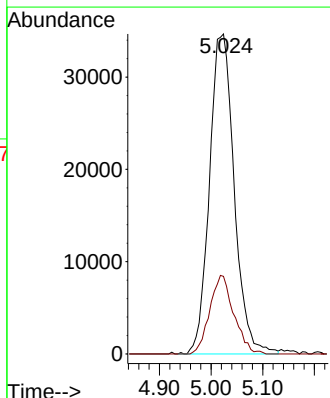
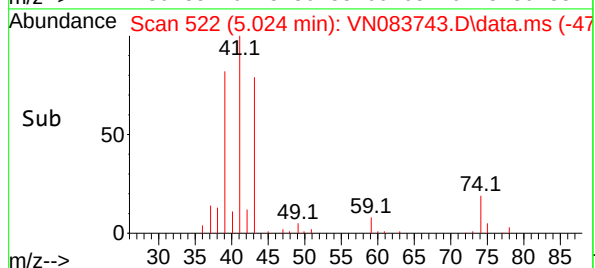
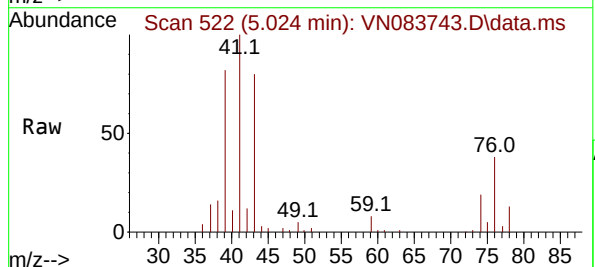
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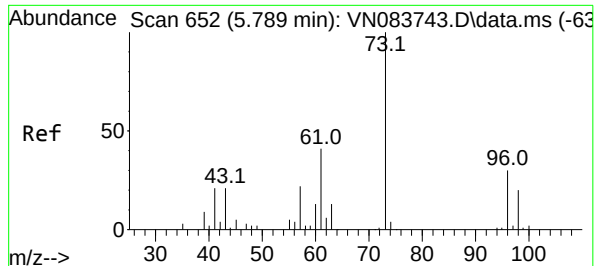
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#18
Methyl Acetate
Concen: 53.068 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 43 Resp: 115167
Ion Ratio Lower Upper
43 100
74 23.9 19.0 28.4





#19

Methyl tert-butyl Ether

Concen: 51.202 ug/l

RT: 5.789 min Scan# 61

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 34606

Ion Ratio Lower Upper

73 100

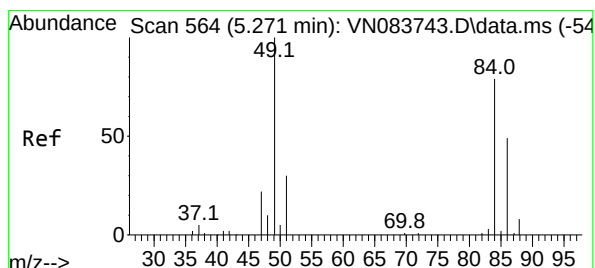
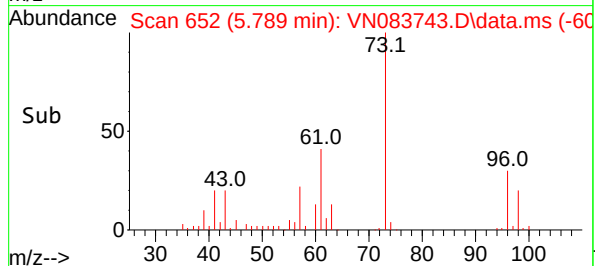
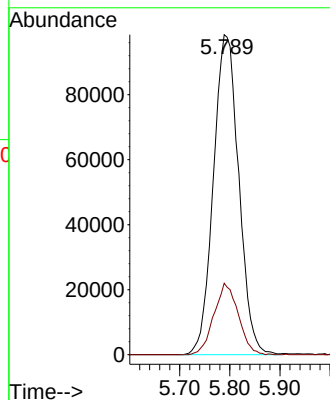
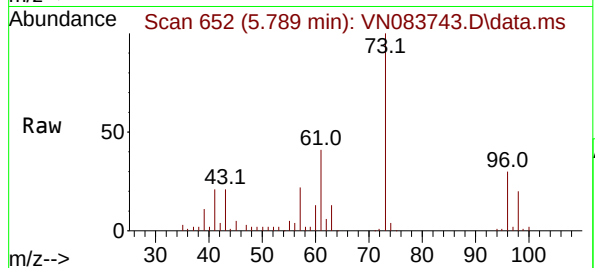
57 22.4 17.0 25.6

Manual Integrations

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Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#20

Methylene Chloride

Concen: 49.214 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Tgt Ion: 84 Resp: 105124

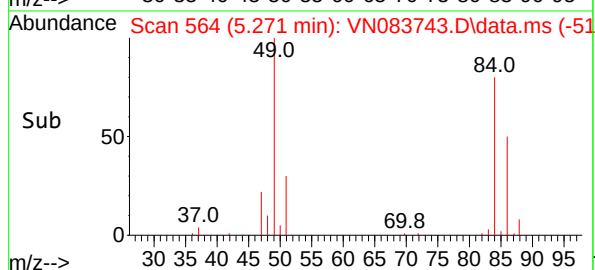
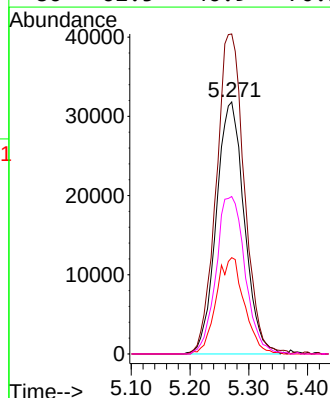
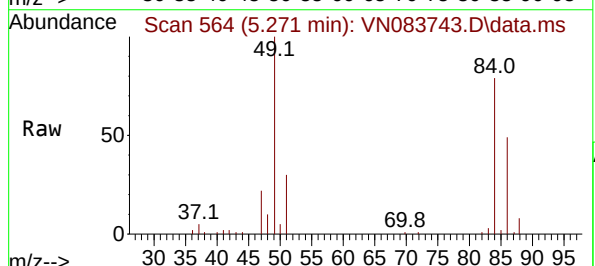
Ion Ratio Lower Upper

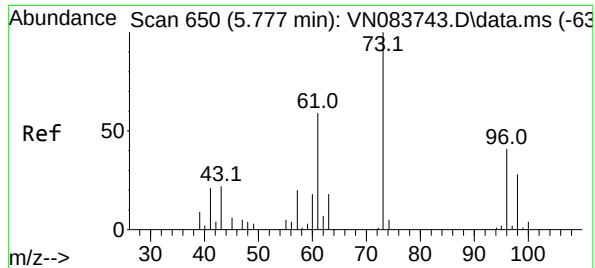
84 100

49 127.0 93.4 140.0

51 38.2 29.2 43.8

86 62.5 46.9 70.3





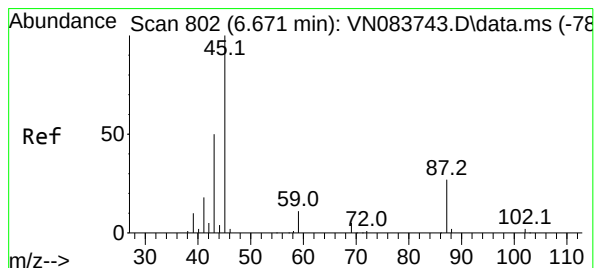
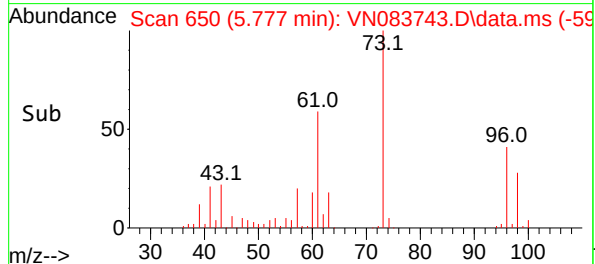
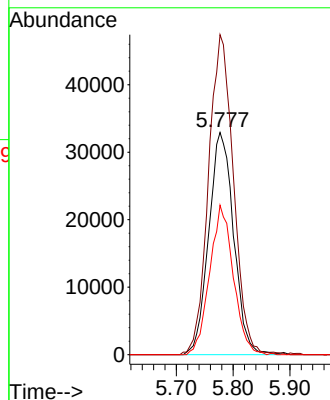
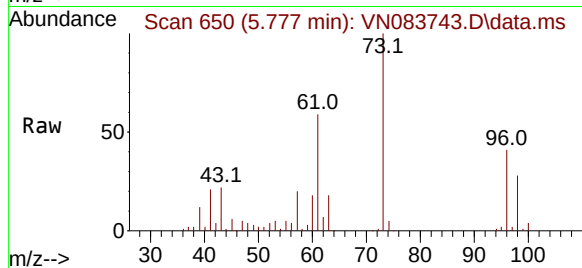
#21
trans-1,2-Dichloroethene
Concen: 50.098 ug/l
RT: 5.777 min Scan# 610
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 10028
Ion Ratio Lower Upper
96 100
61 144.0 106.0 159.0
98 67.2 52.2 78.2

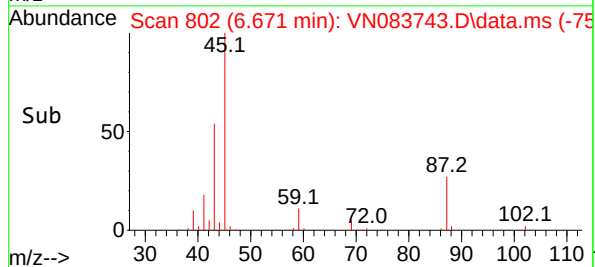
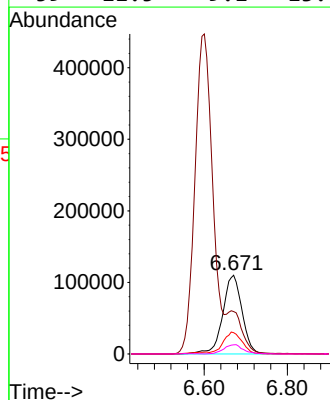
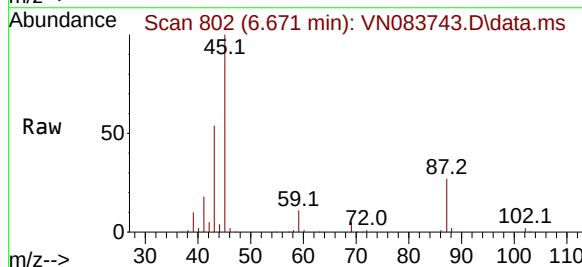
Manual Integrations
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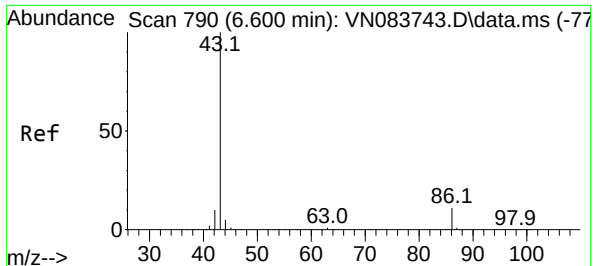
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#22
Diisopropyl ether
Concen: 51.771 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 45 Resp: 354685
Ion Ratio Lower Upper
45 100
43 53.1 43.4 65.0
87 27.0 22.6 33.8
59 11.5 9.1 13.7





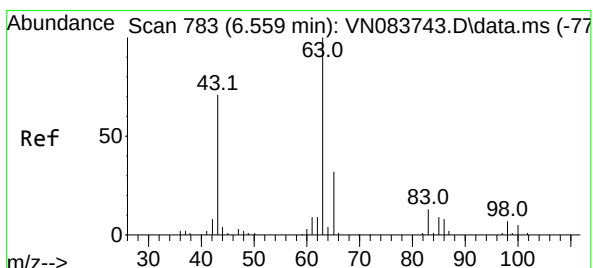
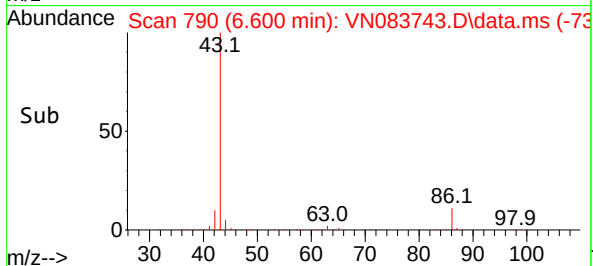
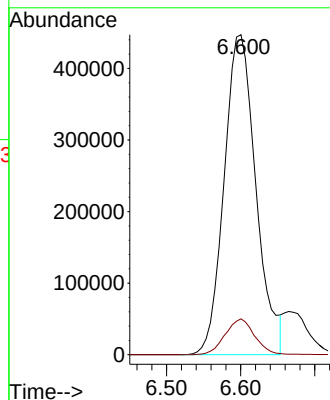
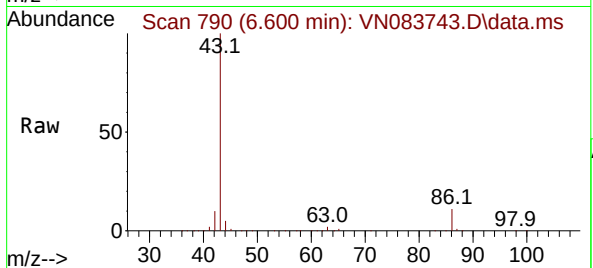
#23
Vinyl Acetate
Concen: 266.082 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1334972
Ion Ratio Lower Upper
43 100
86 11.2 8.7 13.1

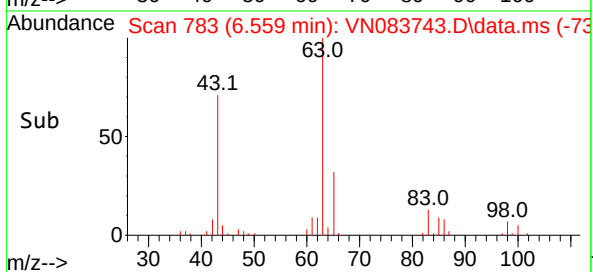
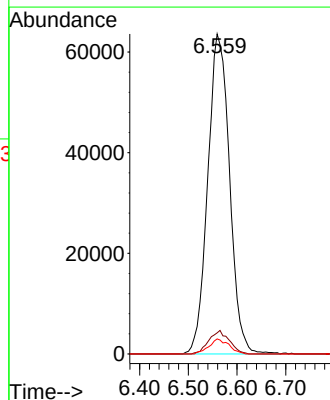
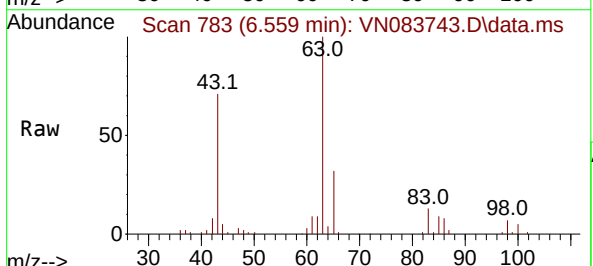
Manual Integrations
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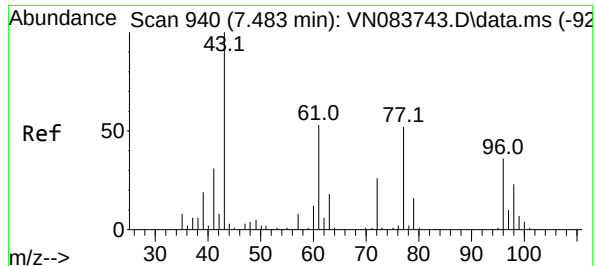
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#24
1,1-Dichloroethane
Concen: 50.099 ug/l
RT: 6.559 min Scan# 783
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 63 Resp: 197743
Ion Ratio Lower Upper
63 100
98 6.6 3.5 10.4
100 4.7 2.5 7.5





#25

2-Butanone

Concen: 247.428 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 33945

Ion Ratio Lower Upper

43 100

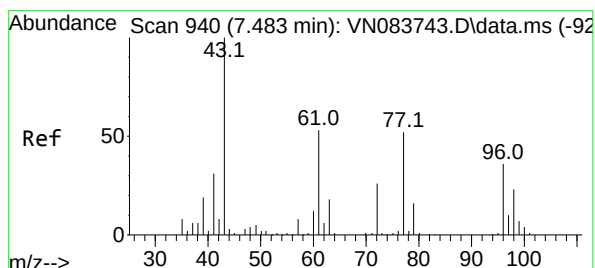
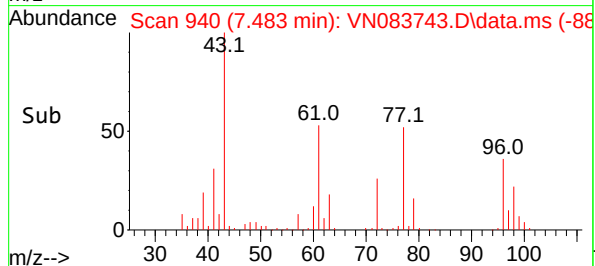
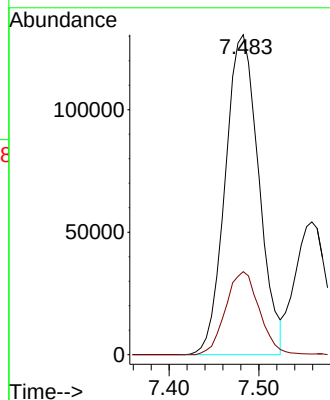
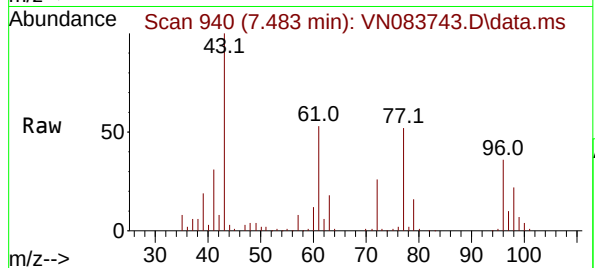
72 25.9 20.8 31.2

Manual Integrations

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Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#26

2,2-Dichloropropane

Concen: 51.949 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN083743.D

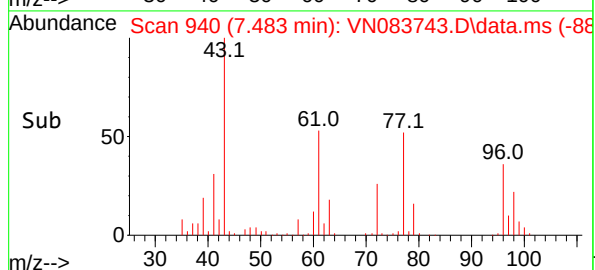
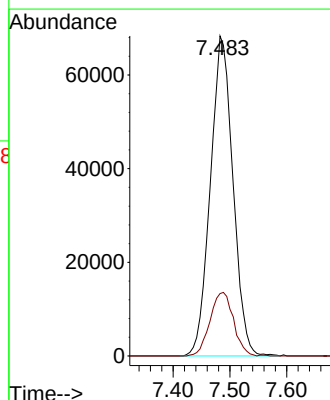
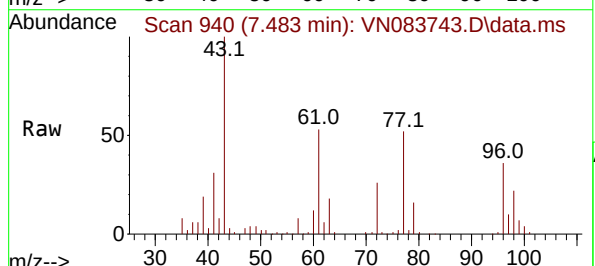
Acq: 10 Sep 2024 09:32

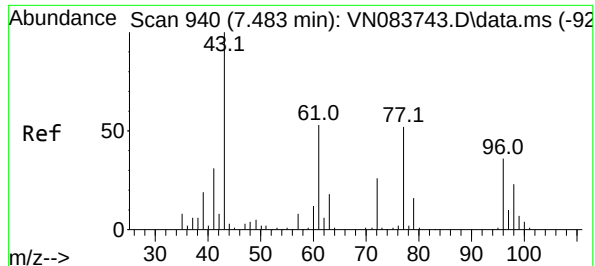
Tgt Ion: 77 Resp: 188830

Ion Ratio Lower Upper

77 100

97 20.6 10.2 30.4





#27

cis-1,2-Dichloroethene

Concen: 52.085 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 123764

Ion Ratio Lower Upper

96 100

61 153.1 0.0 306.2

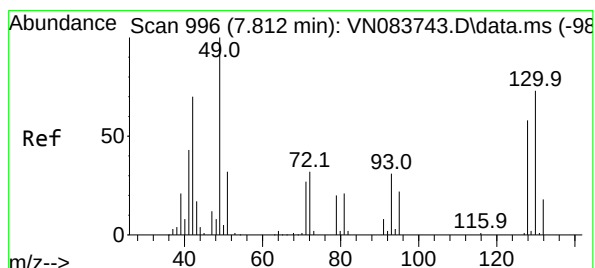
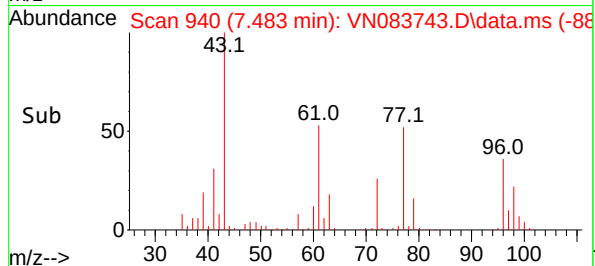
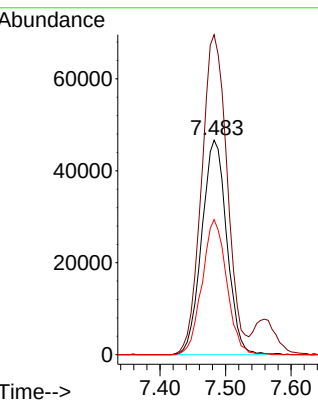
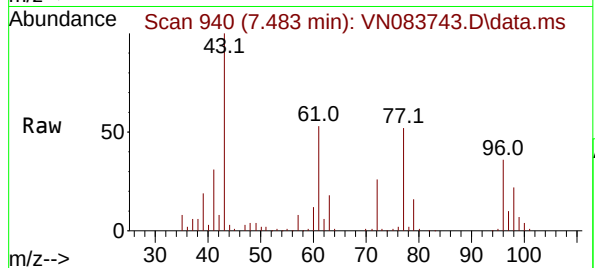
98 61.8 0.0 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#28

Bromochloromethane

Concen: 54.522 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

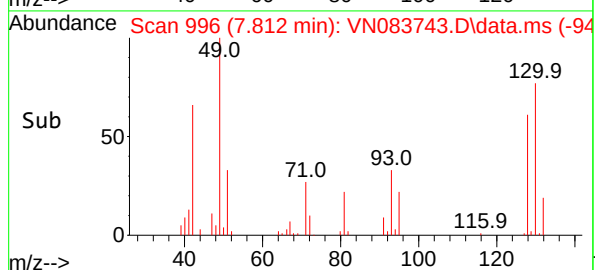
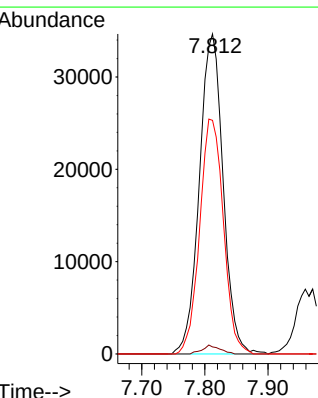
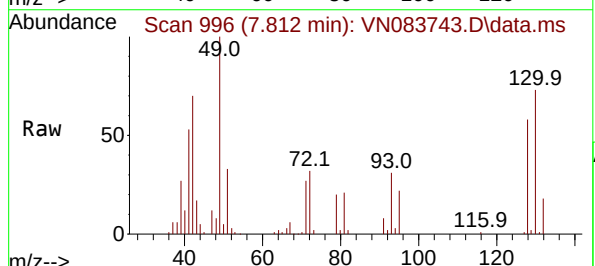
Tgt Ion: 49 Resp: 90626

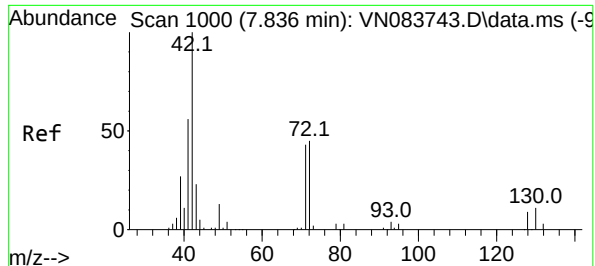
Ion Ratio Lower Upper

49 100

129 2.0 0.0 3.4

130 73.2 60.2 90.2





#29

Tetrahydrofuran

Concen: 257.049 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 20852

Ion Ratio Lower Upper

42 100

72 43.5 35.9 53.9

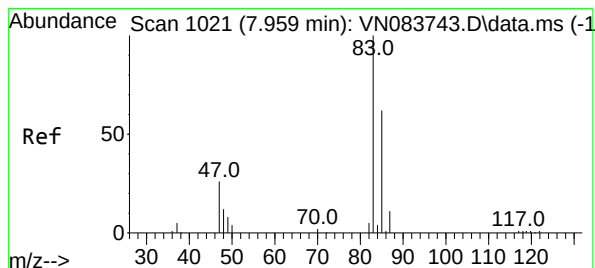
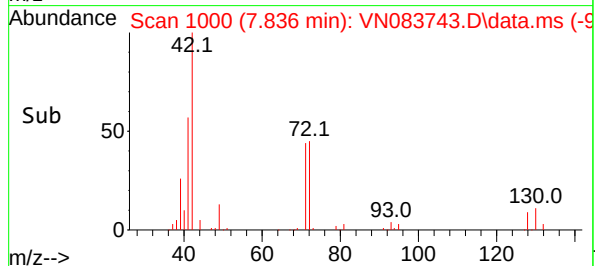
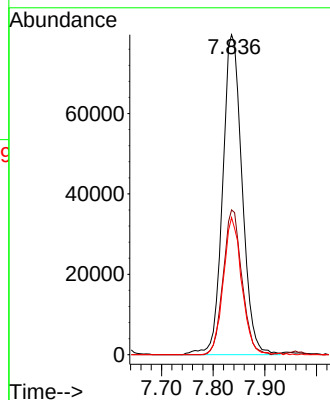
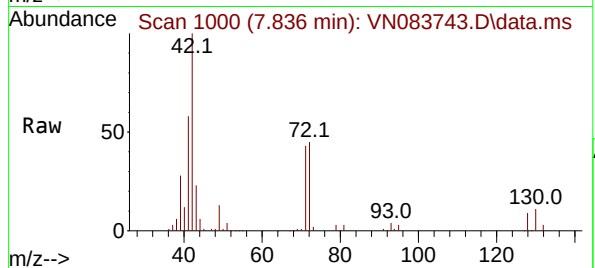
71 40.5 33.9 50.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#30

Chloroform

Concen: 50.323 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN083743.D

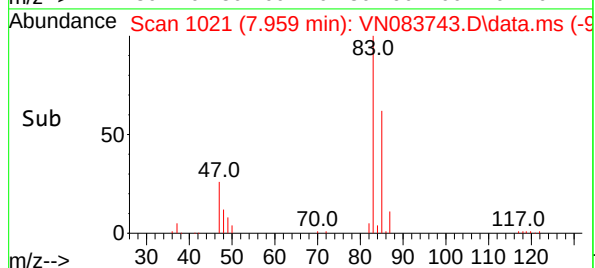
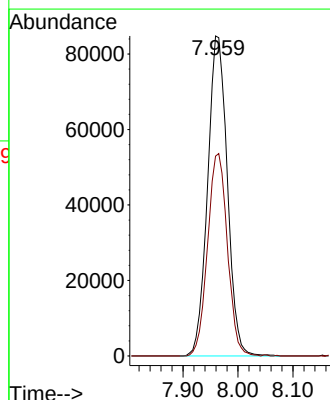
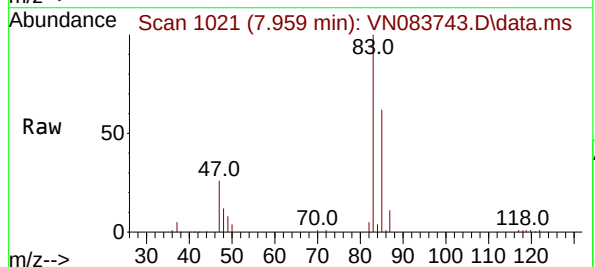
Acq: 10 Sep 2024 09:32

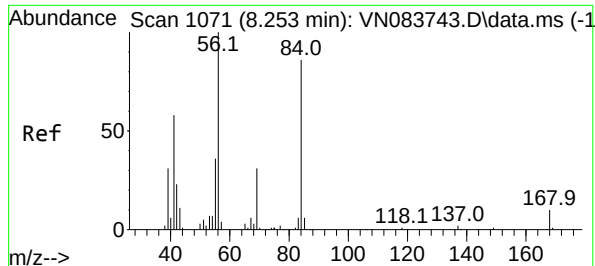
Tgt Ion: 83 Resp: 210873

Ion Ratio Lower Upper

83 100

85 62.5 52.8 79.2





#31

Cyclohexane

Concen: 46.653 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 175569

Ion Ratio Lower Upper

56 100

69 31.4 26.9 40.3

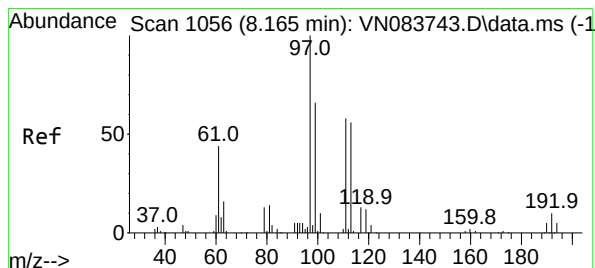
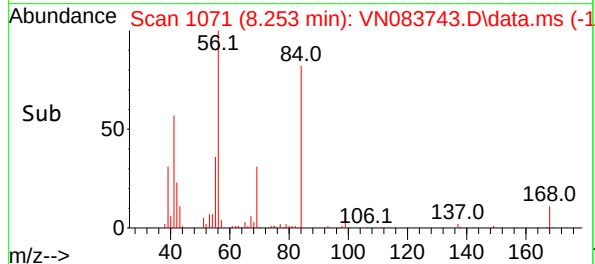
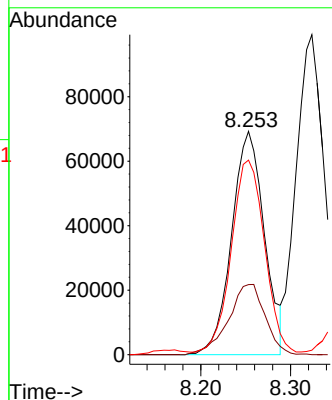
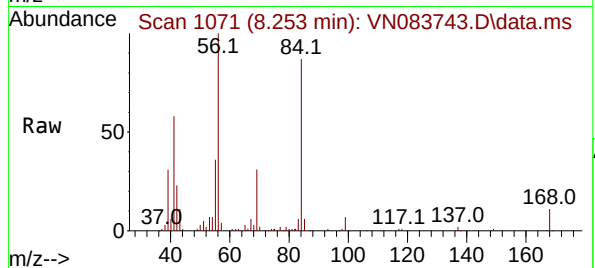
84 85.6 69.2 103.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#32

1,1,1-Trichloroethane

Concen: 50.954 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

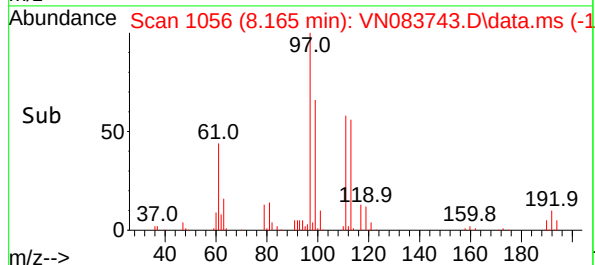
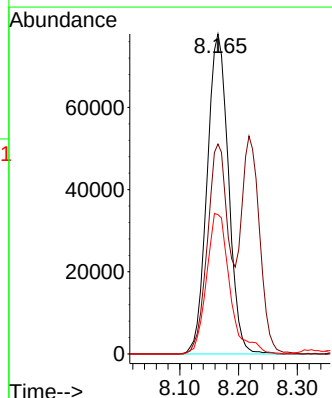
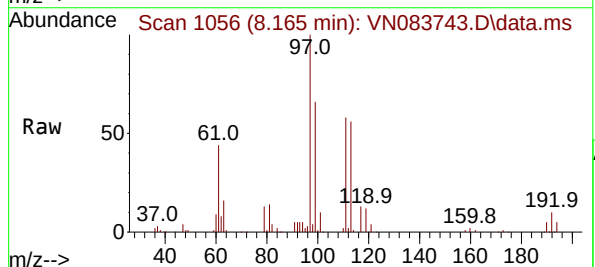
Tgt Ion: 97 Resp: 196328

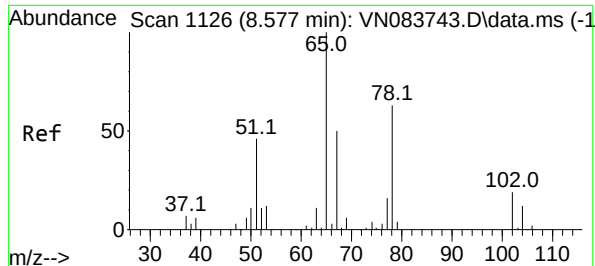
Ion Ratio Lower Upper

97 100

99 65.5 52.3 78.5

61 48.2 38.2 57.2





#33

1,2-Dichloroethane-d4

Concen: 56.310 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 146624

Ion Ratio Lower Upper

65 100

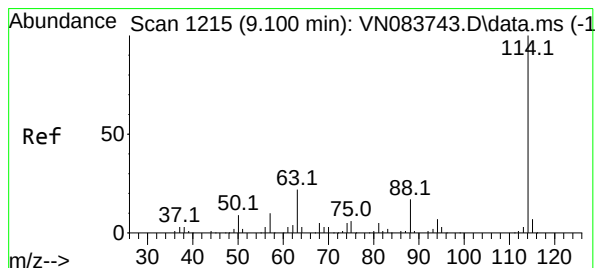
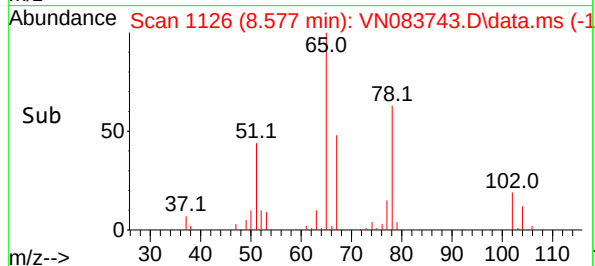
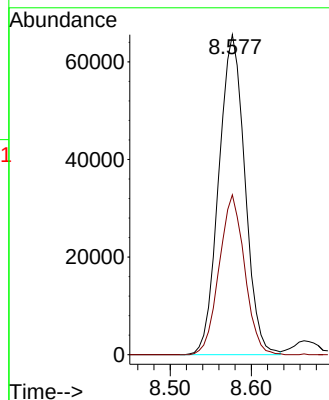
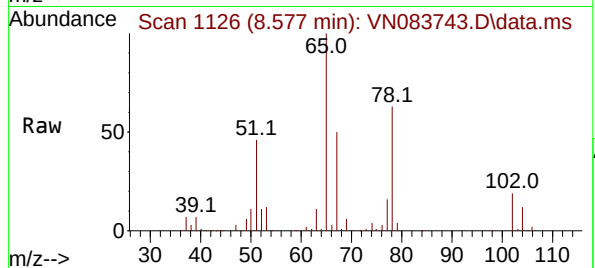
67 48.6 0.0 100.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

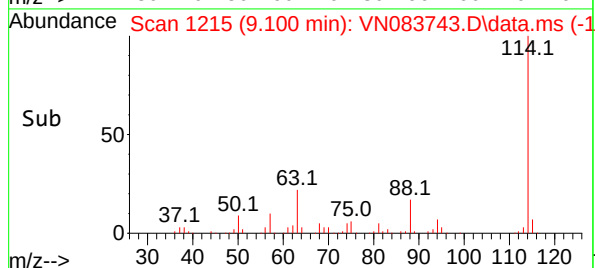
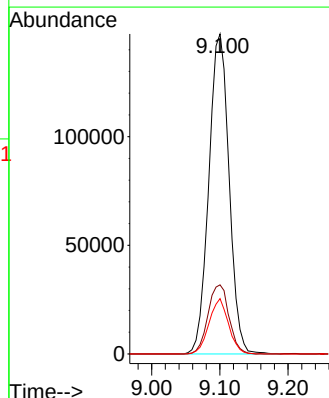
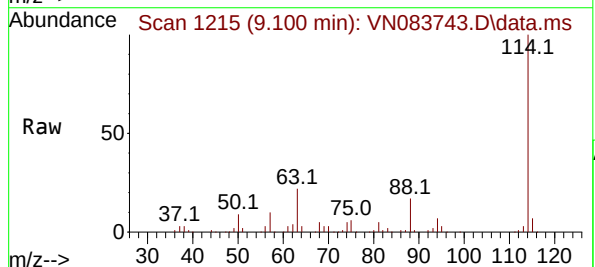
Tgt Ion:114 Resp: 304866

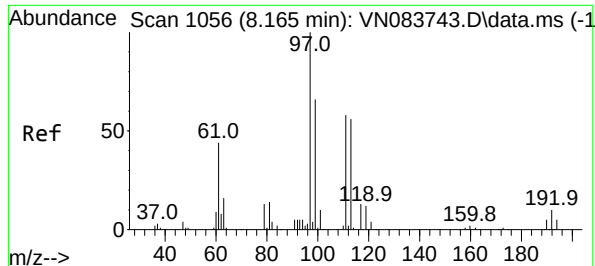
Ion Ratio Lower Upper

114 100

63 21.6 0.0 43.4

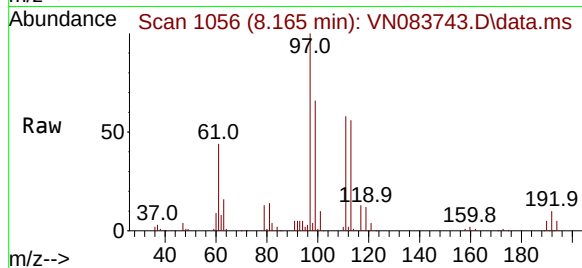
88 17.3 0.0 32.6





#35
Dibromofluoromethane
Concen: 53.049 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

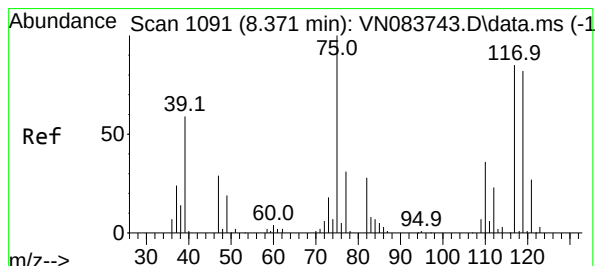
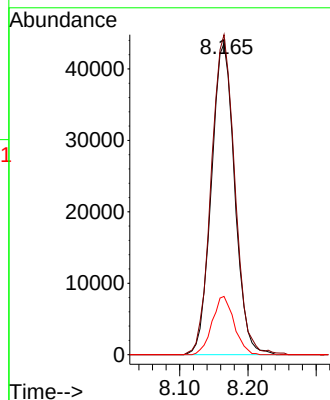
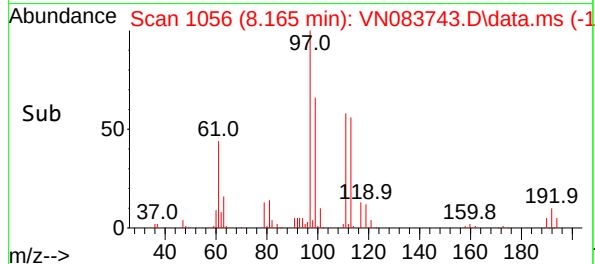
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 113 Resp: 103530
Ion Ratio Lower Upper
113 100
111 104.3 82.6 124.0
192 17.6 14.3 21.5

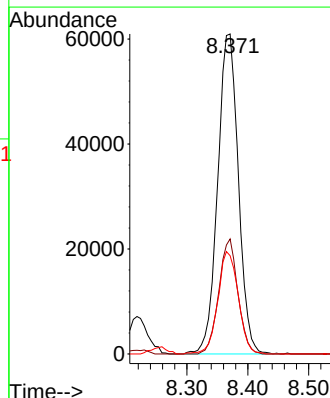
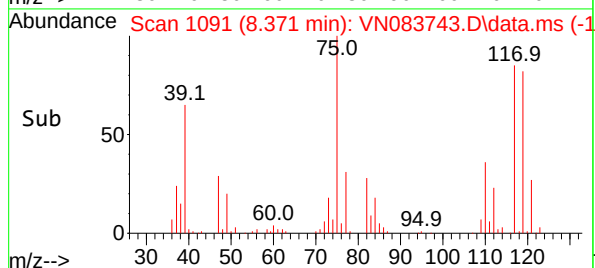
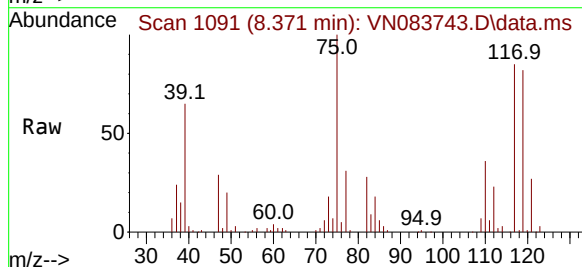
Manual Integrations
APPROVED

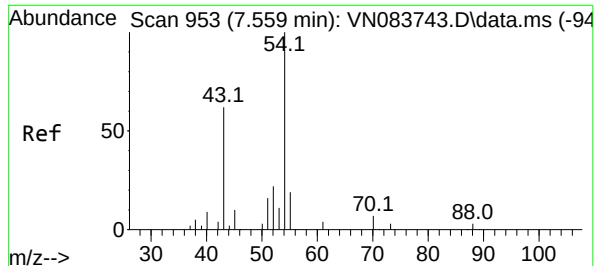
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#36
1,1-Dichloropropene
Concen: 48.996 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 75 Resp: 143931
Ion Ratio Lower Upper
75 100
110 33.2 16.7 50.1
77 31.6 25.2 37.8





#37

Ethyl Acetate

Concen: 52.402 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 139729

Ion Ratio Lower Upper

43 100

61 13.1 11.1 16.7

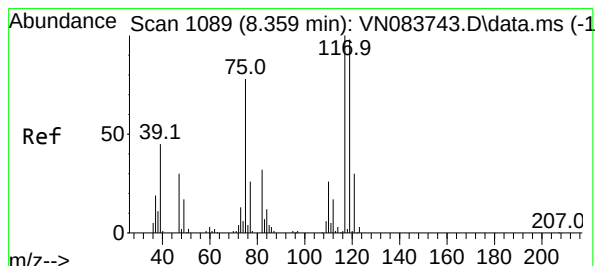
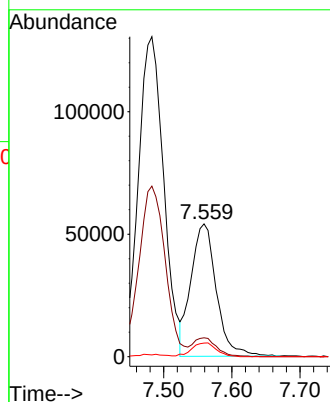
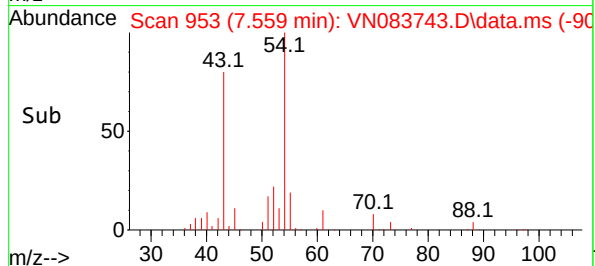
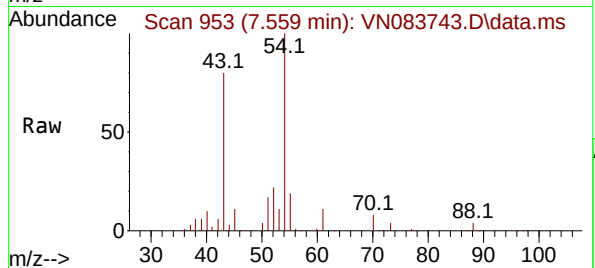
70 10.1 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#38

Carbon Tetrachloride

Concen: 51.362 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

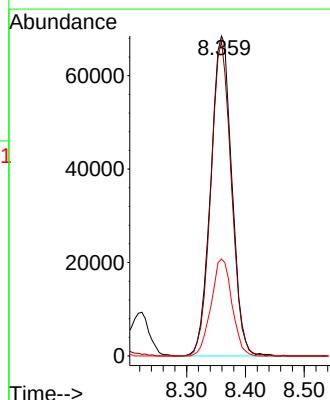
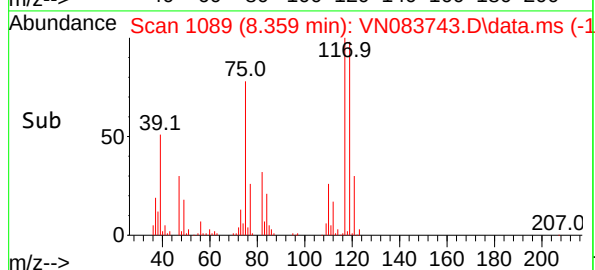
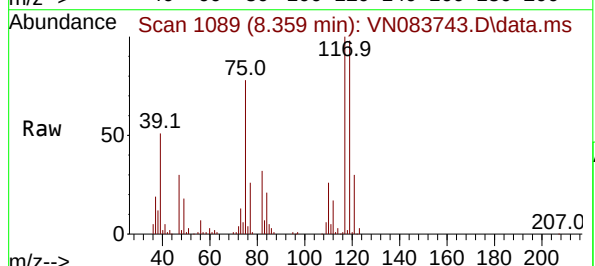
Tgt Ion:117 Resp: 171174

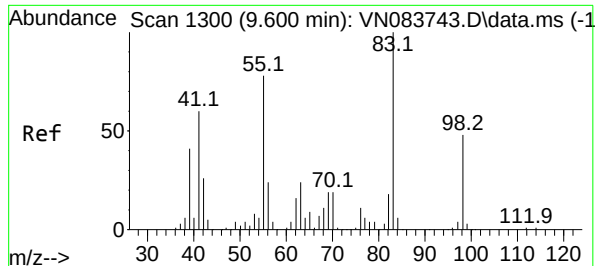
Ion Ratio Lower Upper

117 100

119 98.4 76.1 114.1

121 30.3 24.1 36.1





#39

Methylcyclohexane

Concen: 52.200 ug/l

RT: 9.600 min Scan# 11300

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 174544

Ion Ratio Lower Upper

83 100

55 78.0 62.2 93.4

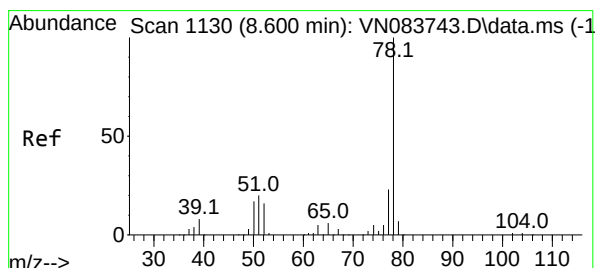
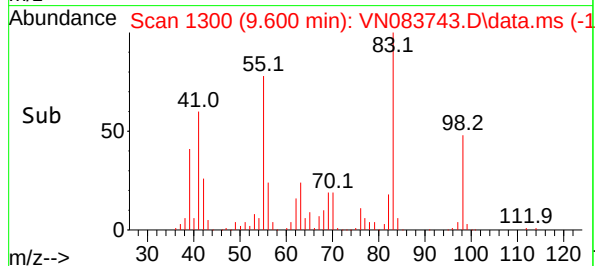
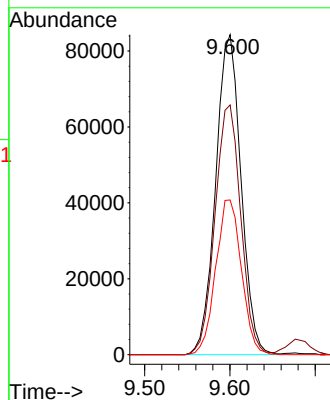
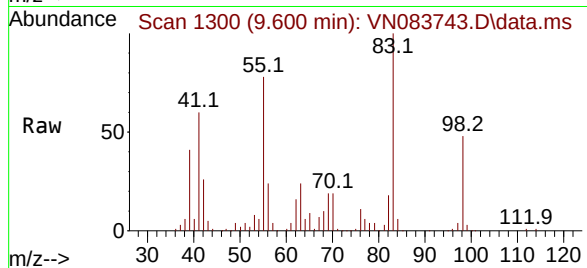
98 48.4 37.6 56.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#40

Benzene

Concen: 49.691 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN083743.D

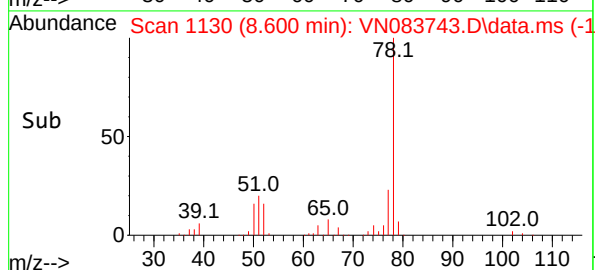
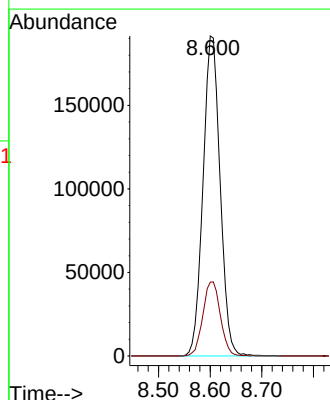
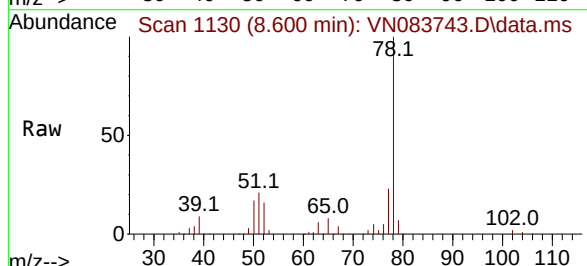
Acq: 10 Sep 2024 09:32

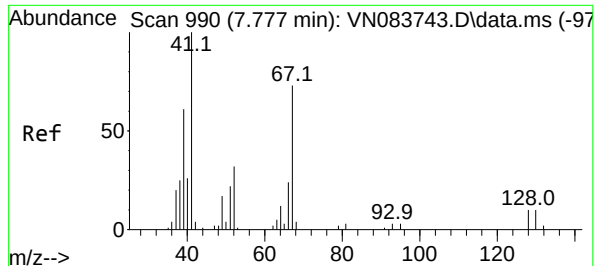
Tgt Ion: 78 Resp: 439364

Ion Ratio Lower Upper

78 100

77 23.0 19.0 28.6





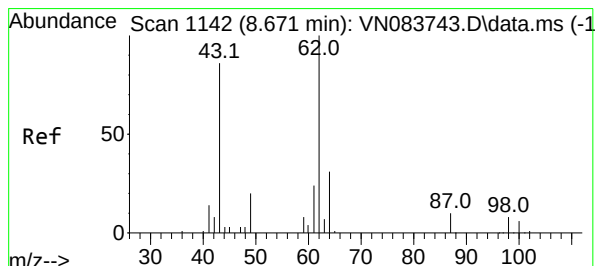
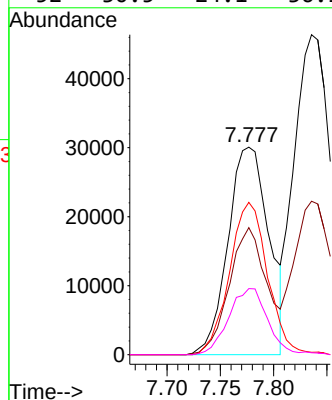
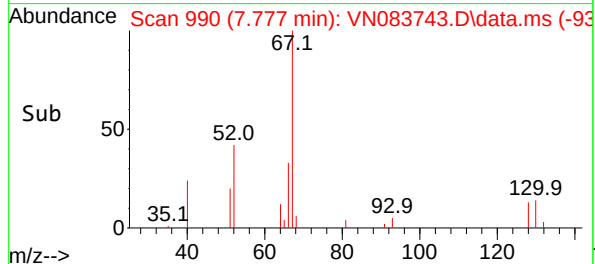
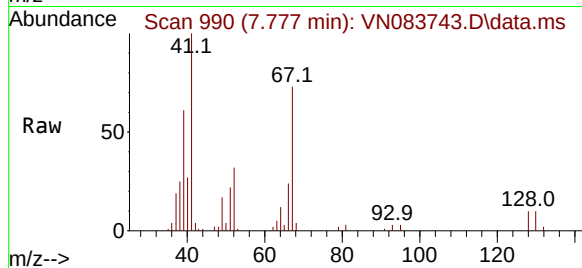
#41
Methacrylonitrile
Concen: 51.026 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:	41	Resp:	8047
Ion Ratio	Lower	Upper	
41	100		
39	56.6	45.4	68.2
67	68.5	55.9	83.9
52	30.5	24.1	36.1

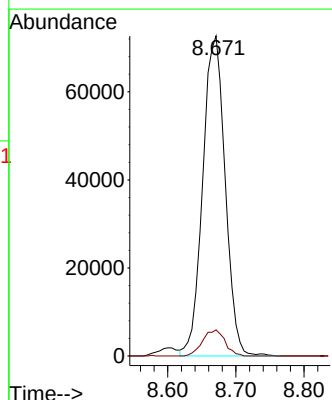
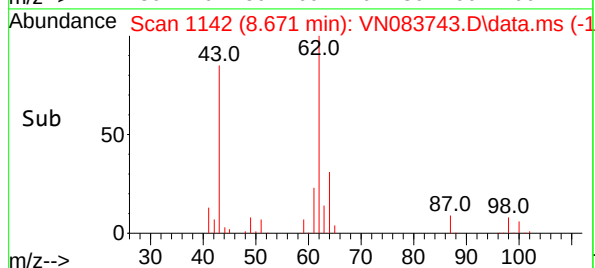
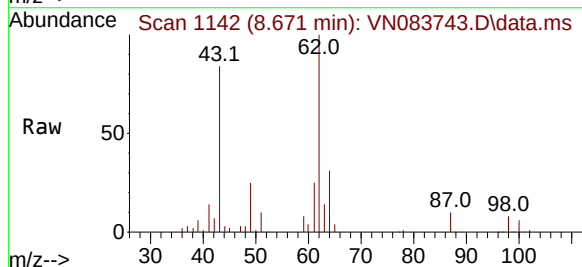
Manual Integrations
APPROVED

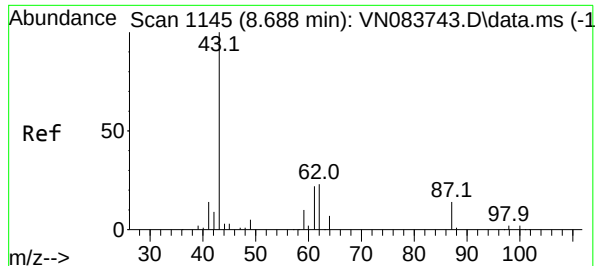
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#42
1,2-Dichloroethane
Concen: 50.370 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:	62	Resp:	166416
Ion Ratio	Lower	Upper	
62	100		
98	8.1	0.0	16.6





#43

Isopropyl Acetate

Concen: 50.218 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 24265

Ion Ratio Lower Upper

43 100

61 26.2 19.4 29.0

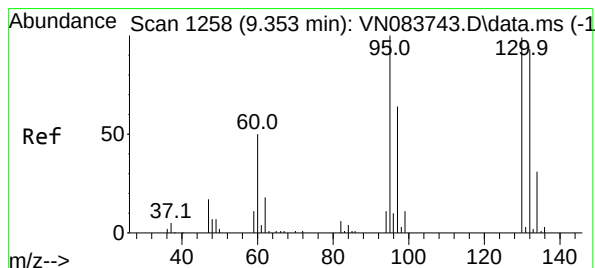
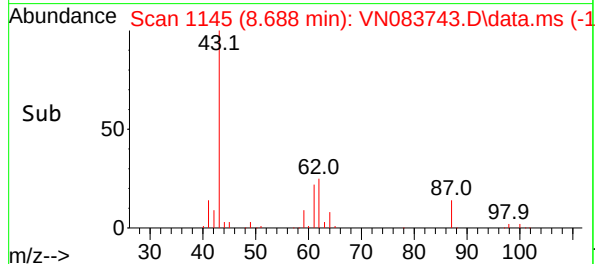
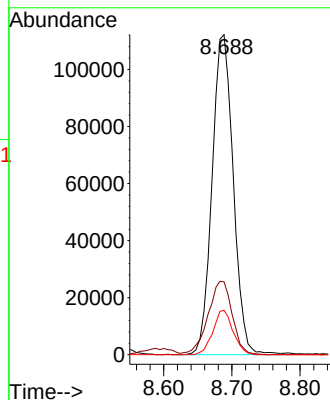
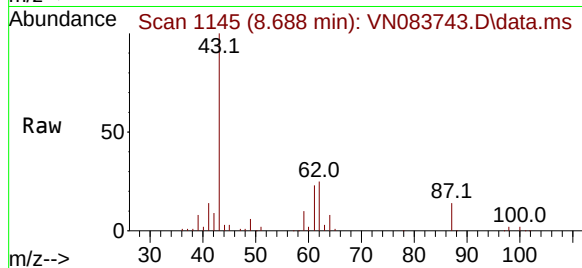
87 13.2 9.8 14.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#44

Trichloroethene

Concen: 50.604 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VN083743.D

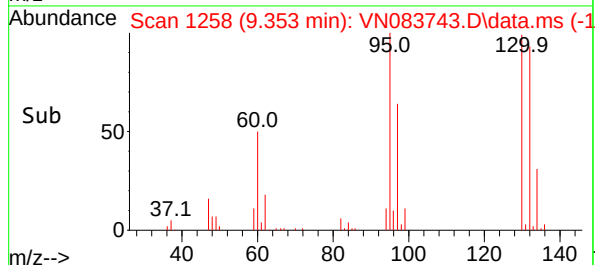
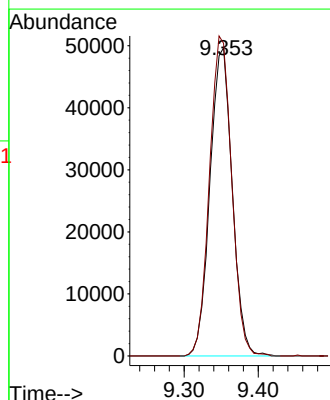
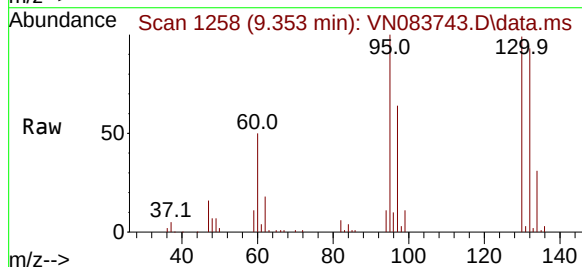
Acq: 10 Sep 2024 09:32

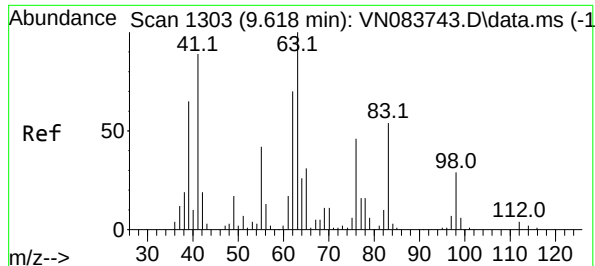
Tgt Ion:130 Resp: 103614

Ion Ratio Lower Upper

130 100

95 101.5 0.0 200.4





#45

1,2-Dichloropropane

Concen: 49.798 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 106419

Ion Ratio Lower Upper

63 100

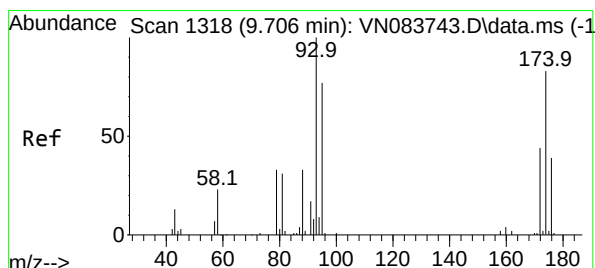
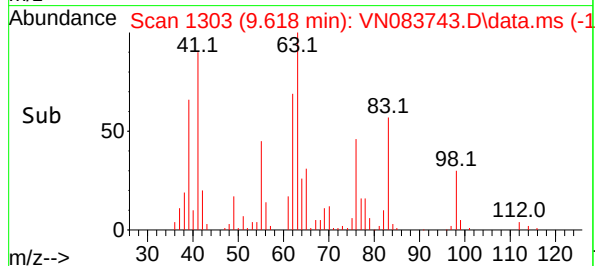
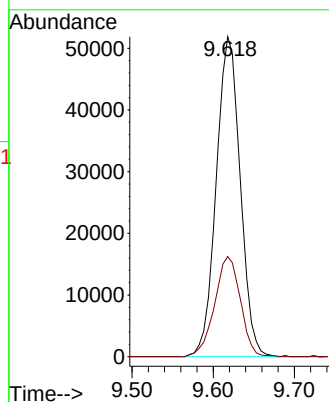
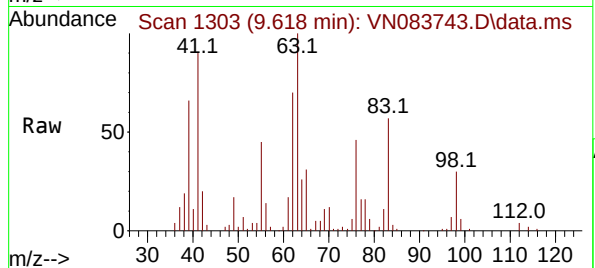
65 31.3 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#46

Dibromomethane

Concen: 51.768 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

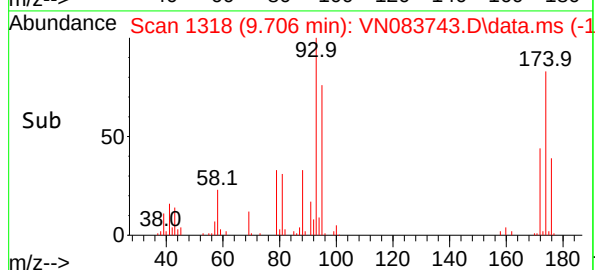
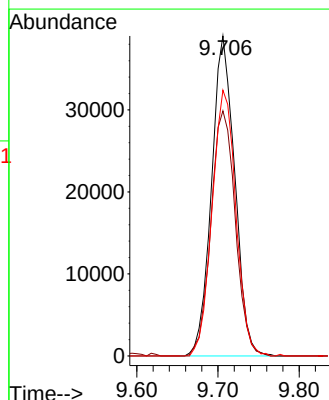
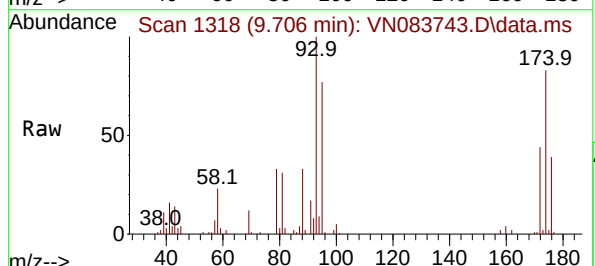
Tgt Ion: 93 Resp: 77488

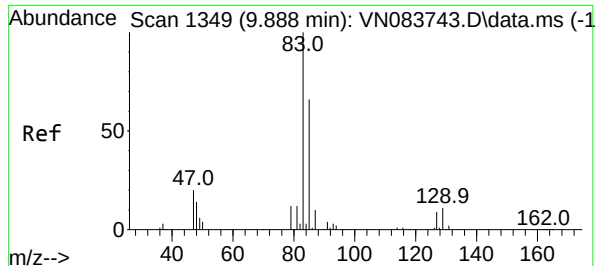
Ion Ratio Lower Upper

93 100

95 80.6 65.3 97.9

174 85.3 71.0 106.4





#47

Bromodichloromethane

Concen: 51.674 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

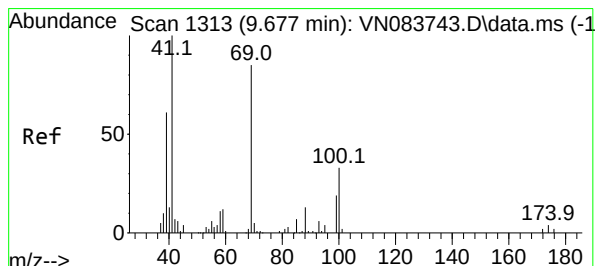
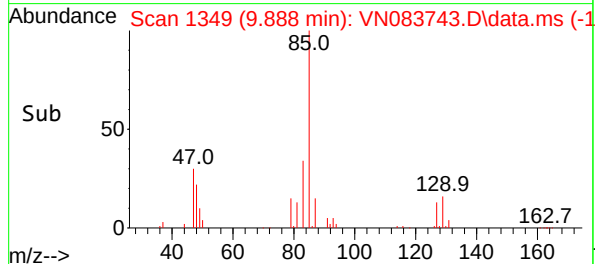
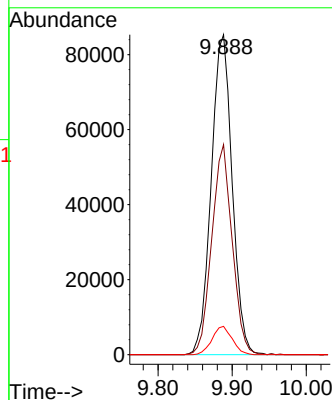
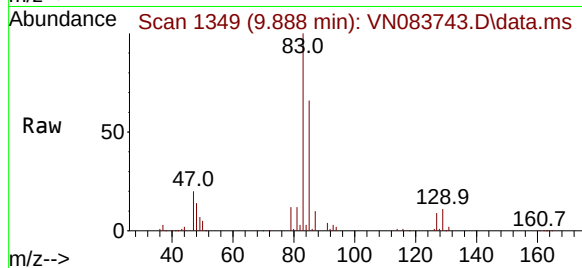
Tgt Ion: 83 Resp: 167390
Ion Ratio Lower Upper
83 100
85 65.7 51.8 77.8
127 8.9 6.6 9.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#48

Methyl methacrylate

Concen: 50.305 ug/l

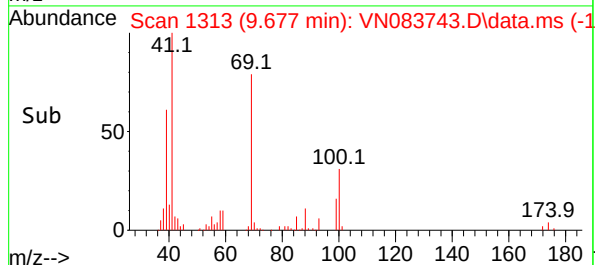
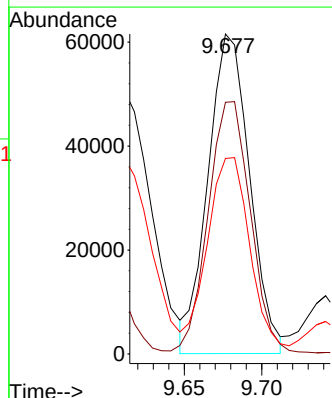
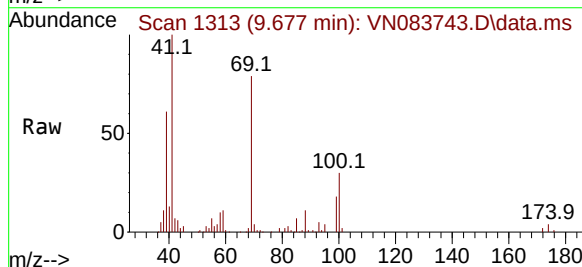
RT: 9.677 min Scan# 1313

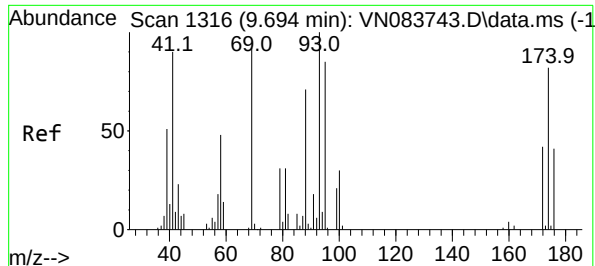
Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Tgt Ion: 41 Resp: 115324
Ion Ratio Lower Upper
41 100
69 80.6 64.3 96.5
39 63.7 48.9 73.3





#49

1,4-Dioxane

Concen: 971.017 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 88 Resp: 36620

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

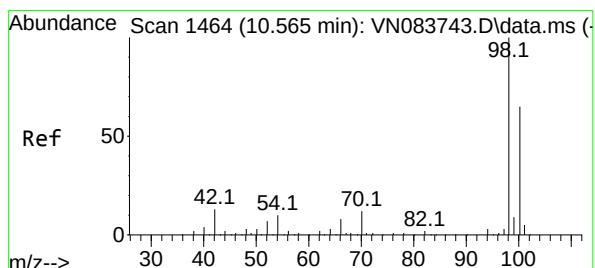
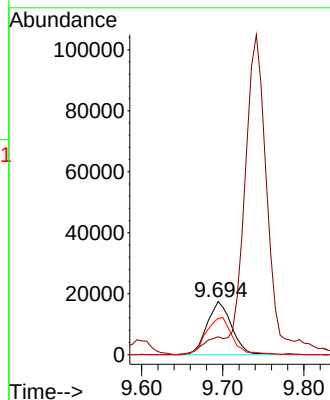
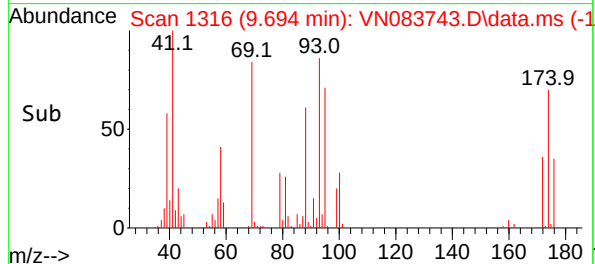
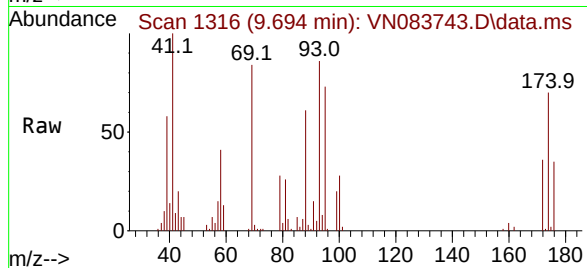
58 74.9 57.1 85.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#50

Toluene-d8

Concen: 57.446 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN083743.D

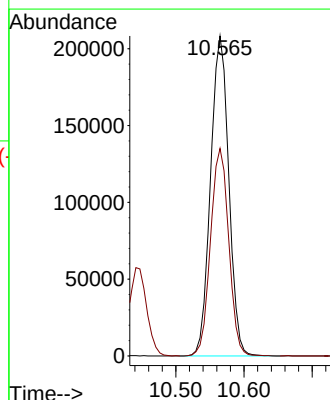
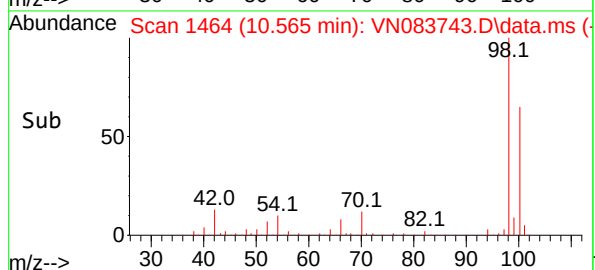
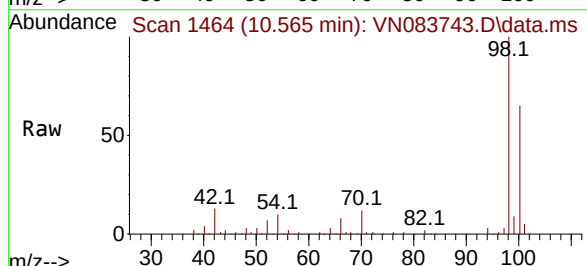
Acq: 10 Sep 2024 09:32

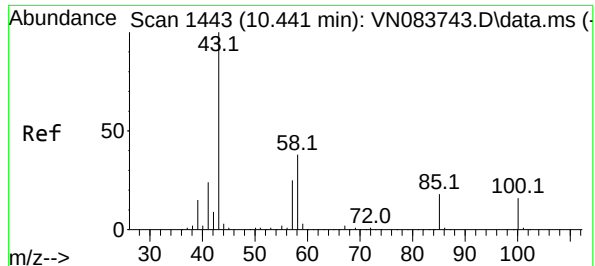
Tgt Ion: 98 Resp: 387600

Ion Ratio Lower Upper

98 100

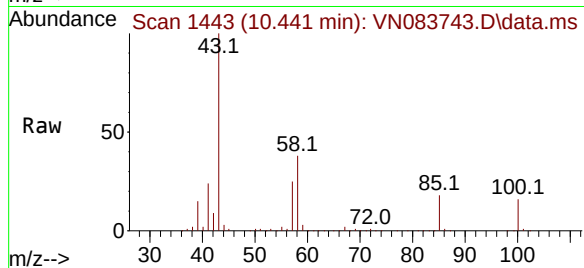
100 64.8 52.0 78.0





#51
4-Methyl-2-Pentanone
Concen: 256.804 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

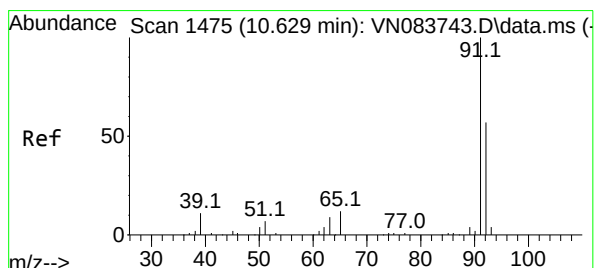
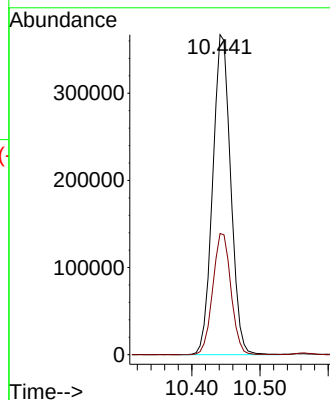
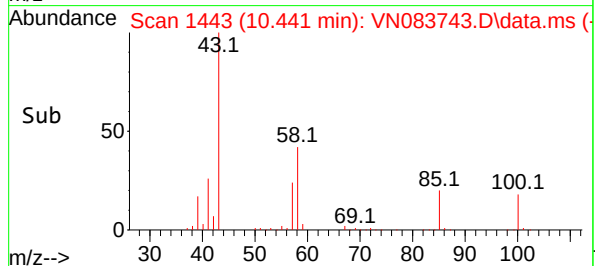
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 43 Resp: 675474
Ion Ratio Lower Upper
43 100
58 38.2 31.6 47.4

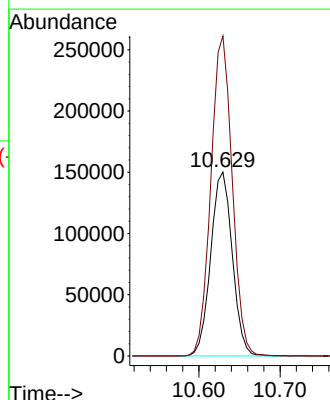
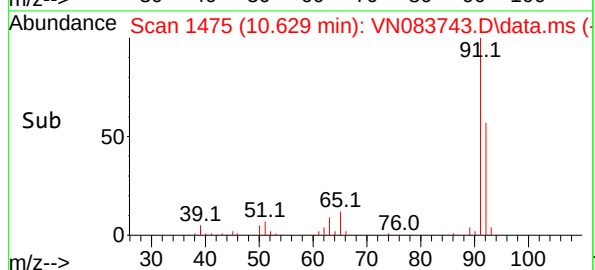
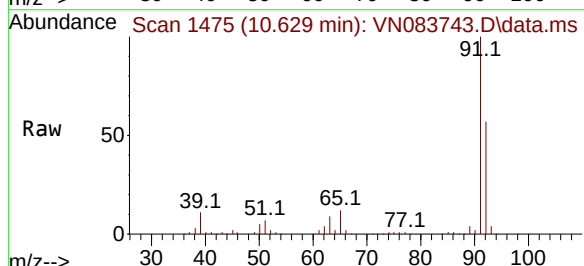
Manual Integrations
APPROVED

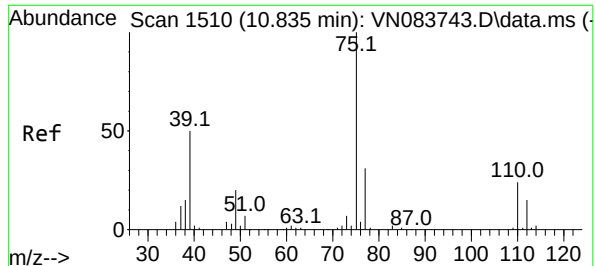
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#52
Toluene
Concen: 51.189 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

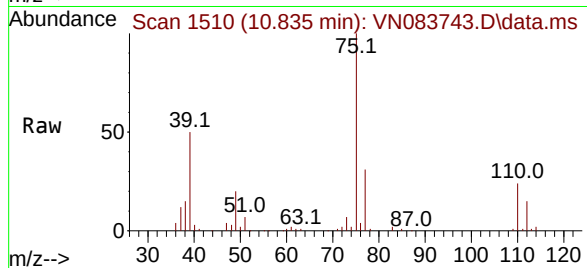
Tgt Ion: 92 Resp: 276845
Ion Ratio Lower Upper
92 100
91 172.3 134.7 202.1





#53
t-1,3-Dichloropropene
Concen: 51.855 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

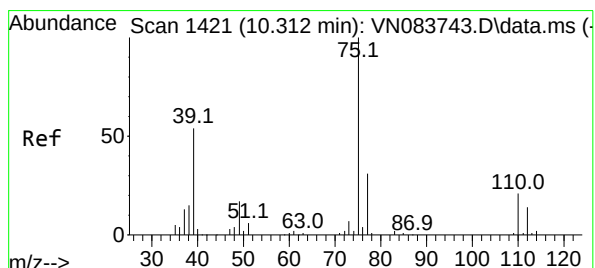
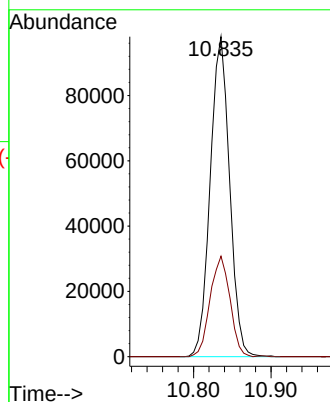
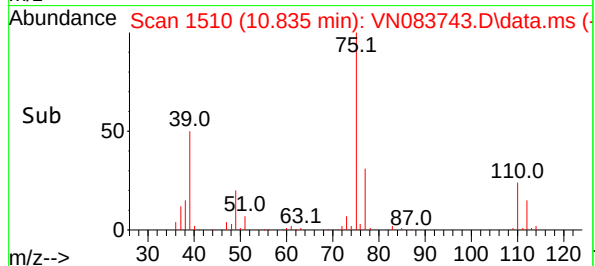
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 75 Resp: 17027
Ion Ratio Lower Upper
75 100
77 31.4 25.8 38.6

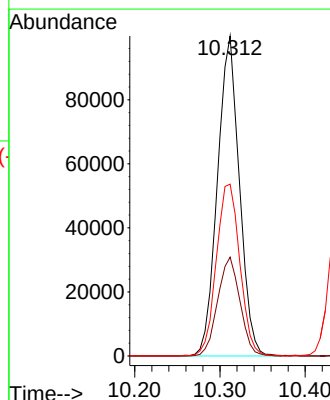
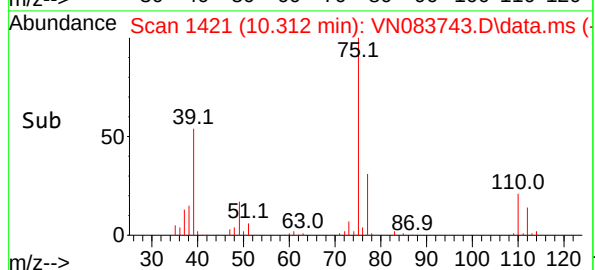
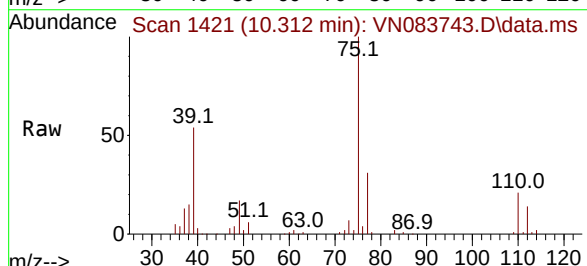
Manual Integrations
APPROVED

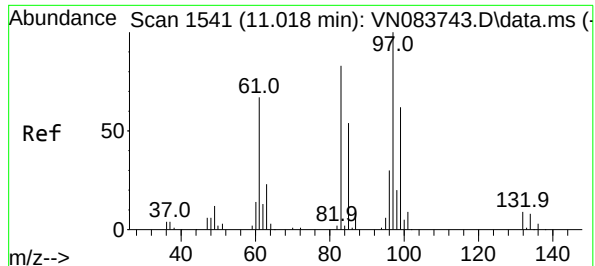
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#54
cis-1,3-Dichloropropene
Concen: 51.823 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

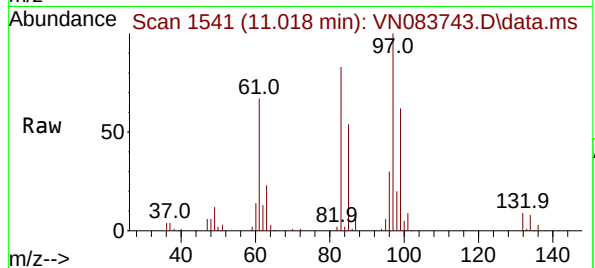
Tgt Ion: 75 Resp: 178747
Ion Ratio Lower Upper
75 100
77 30.9 25.0 37.6
39 53.7 42.6 64.0





#55
1,1,2-Trichloroethane
Concen: 49.547 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

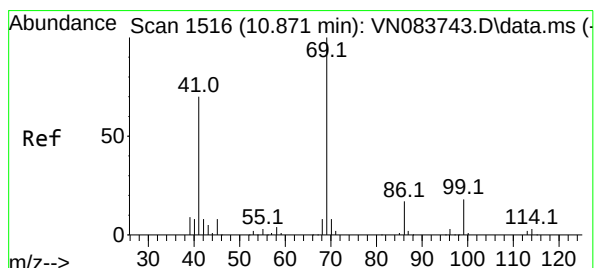
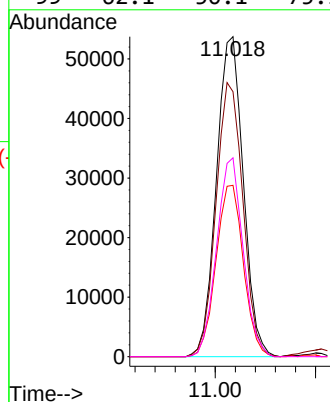
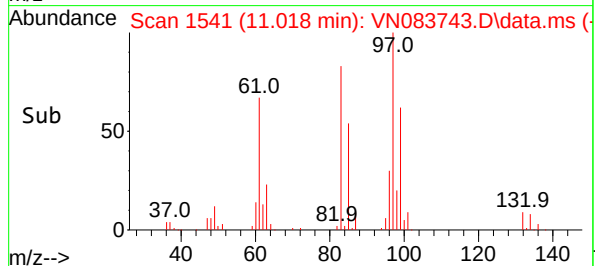
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 97 Resp: 100040
Ion Ratio Lower Upper
97 100
83 82.8 67.5 101.3
85 53.5 44.2 66.2
99 62.1 50.1 75.1

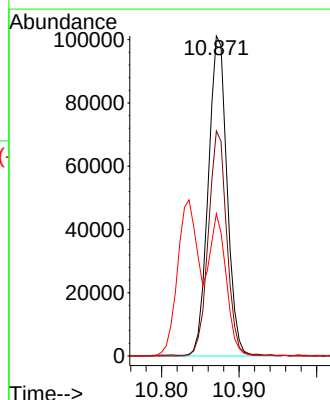
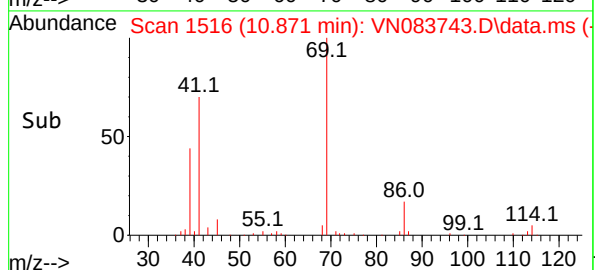
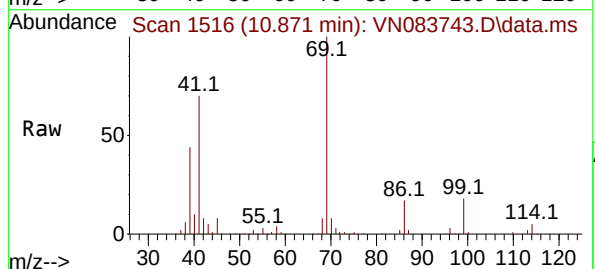
Manual Integrations
APPROVED

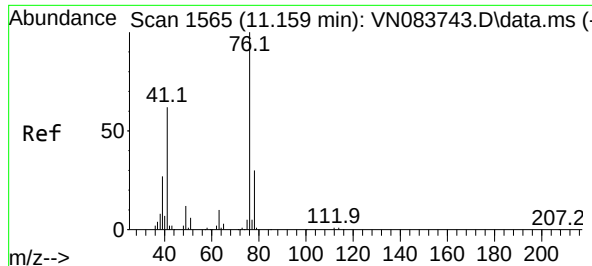
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#56
Ethyl methacrylate
Concen: 54.624 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 69 Resp: 169686
Ion Ratio Lower Upper
69 100
41 68.2 53.9 80.9
39 40.8 32.6 48.8





#57

1,3-Dichloropropane

Concen: 50.562 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 175459

Ion Ratio Lower Upper

76 100

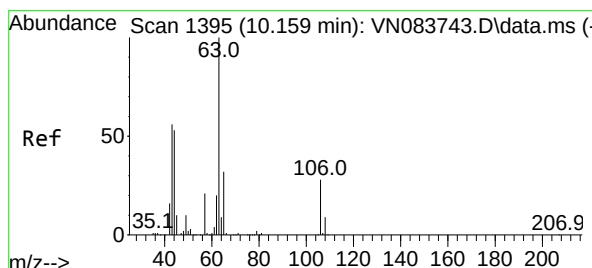
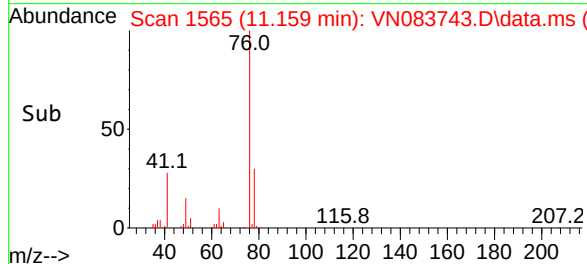
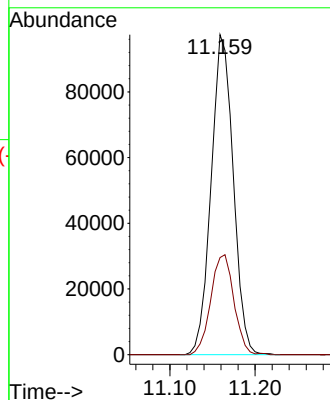
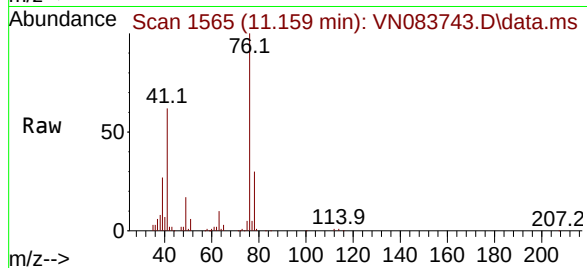
78 32.7 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#58

2-Chloroethyl Vinyl ether

Concen: 235.930 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN083743.D

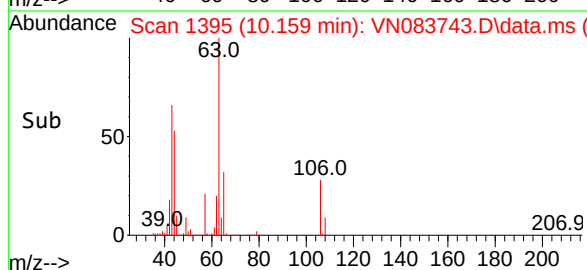
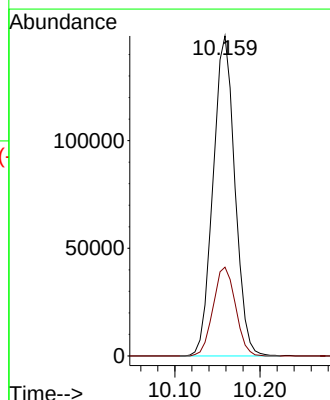
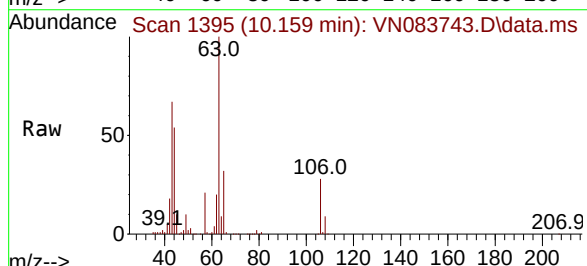
Acq: 10 Sep 2024 09:32

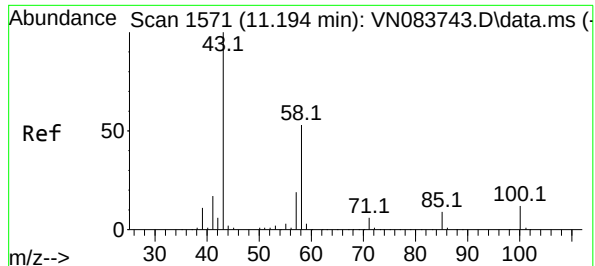
Tgt Ion: 63 Resp: 264081

Ion Ratio Lower Upper

63 100

106 28.5 23.3 34.9





#59

2-Hexanone

Concen: 257.751 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 50150

Ion Ratio Lower Upper

43 100

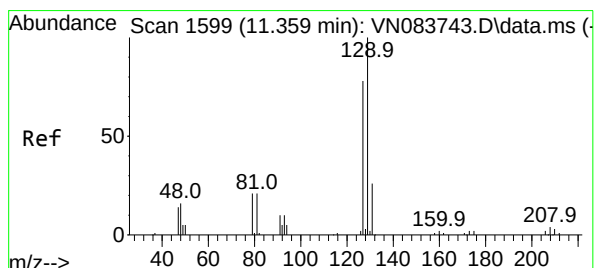
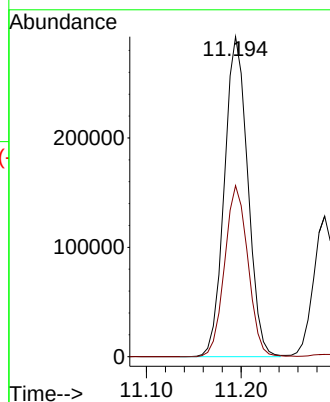
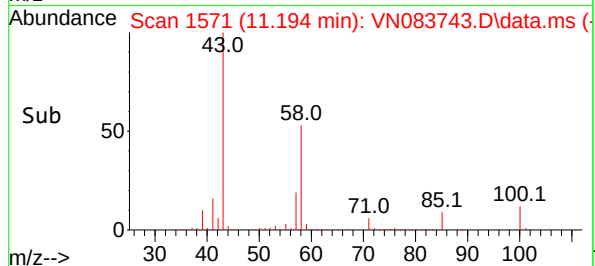
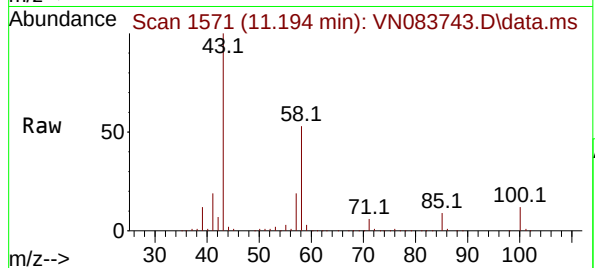
58 53.2 27.2 81.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#60

Dibromochloromethane

Concen: 52.899 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN083743.D

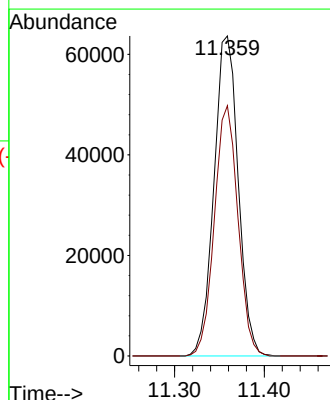
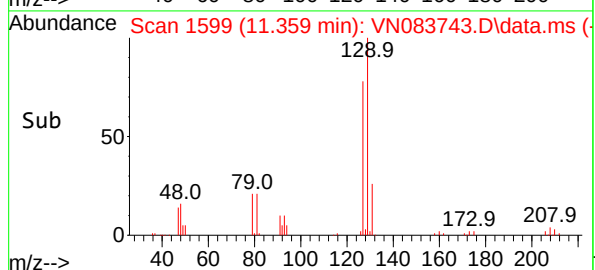
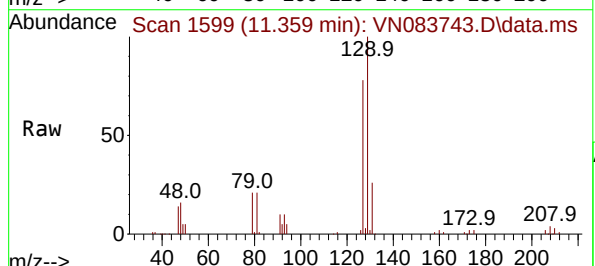
Acq: 10 Sep 2024 09:32

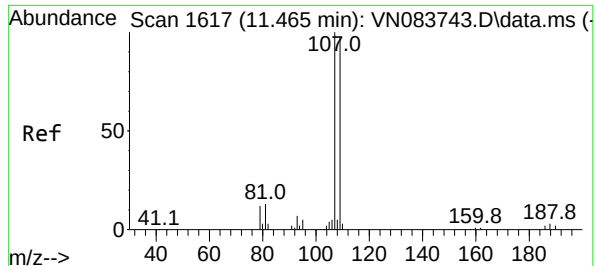
Tgt Ion:129 Resp: 119533

Ion Ratio Lower Upper

129 100

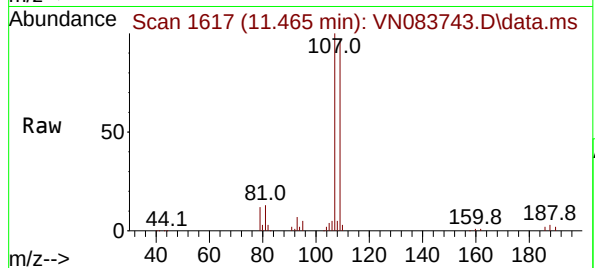
127 0.0 39.0 116.9#





#61
1,2-Dibromoethane
Concen: 50.281 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

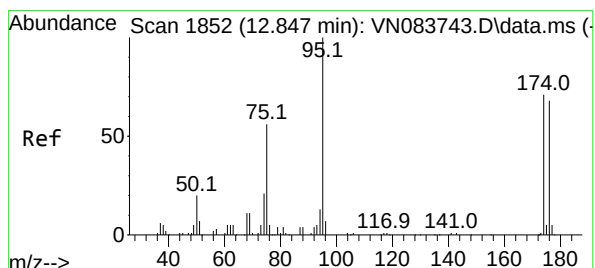
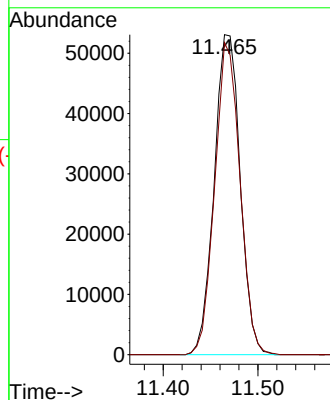
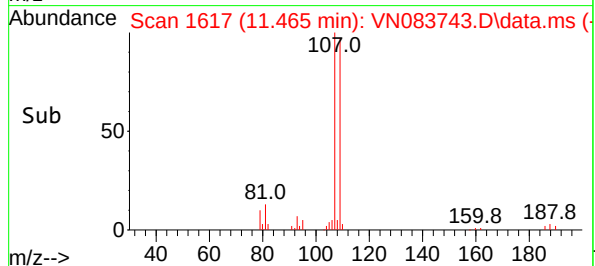
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:107 Resp: 101248
Ion Ratio Lower Upper
107 100
109 94.7 75.6 113.4

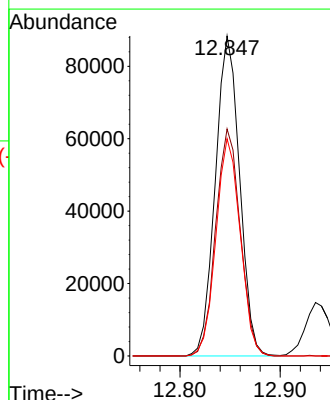
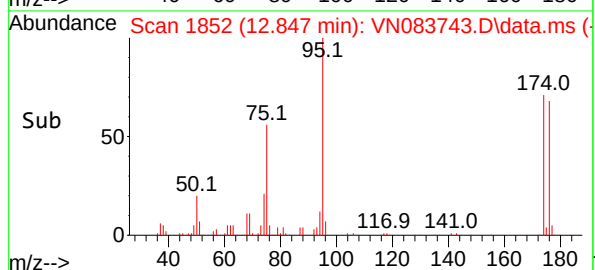
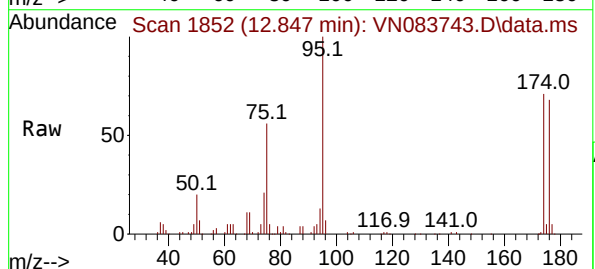
Manual Integrations
APPROVED

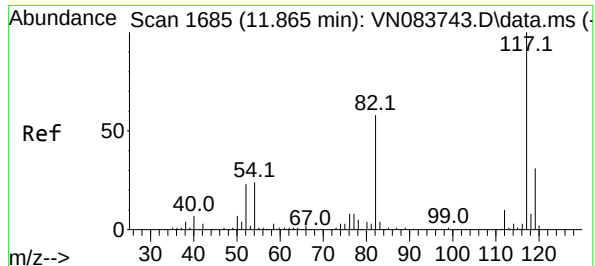
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#62
4-Bromofluorobenzene
Concen: 53.401 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

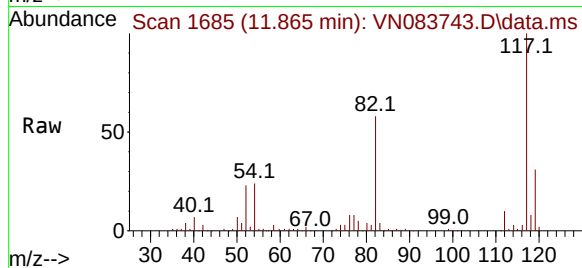
Tgt Ion: 95 Resp: 148654
Ion Ratio Lower Upper
95 100
174 71.6 0.0 139.8
176 67.9 0.0 131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

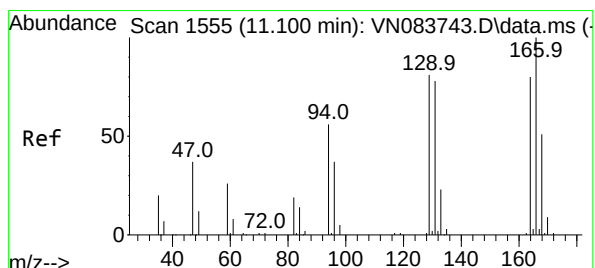
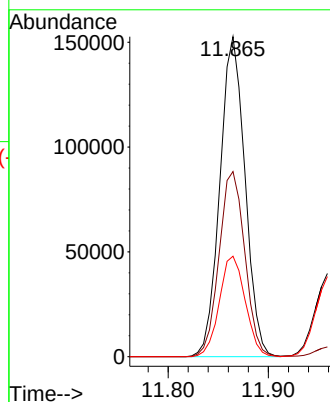
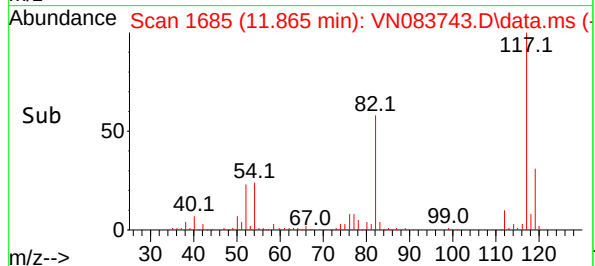
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:117 Resp: 26598
Ion Ratio Lower Upper
117 100
82 57.9 47.4 71.0
119 31.4 26.3 39.5

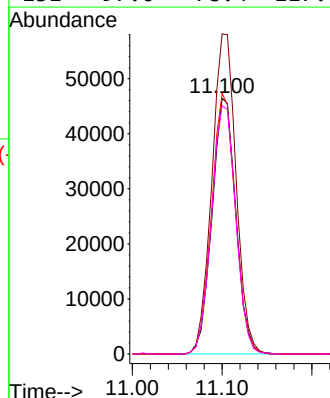
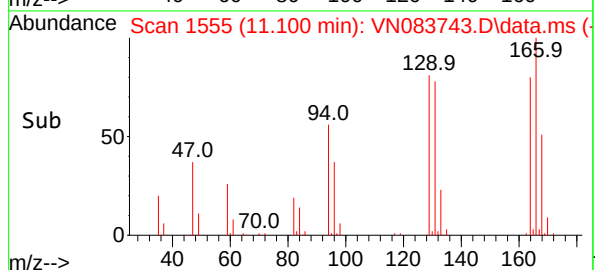
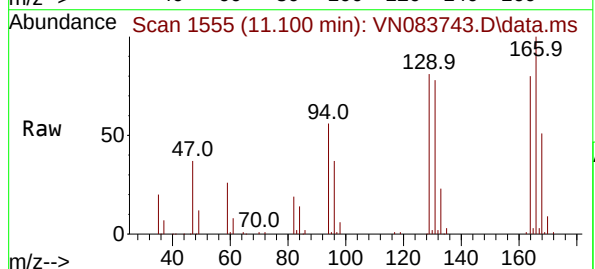
Manual Integrations
APPROVED

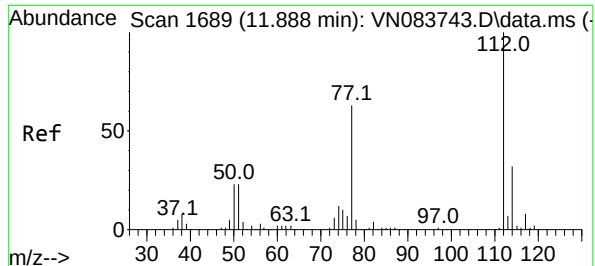
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#64
Tetrachloroethene
Concen: 48.327 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

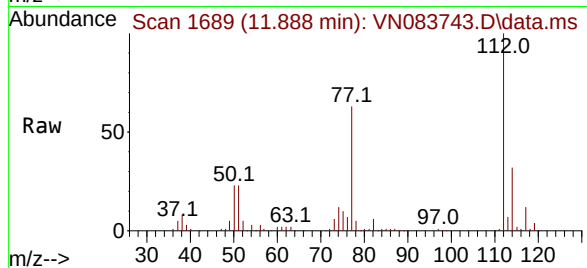
Tgt Ion:164 Resp: 85484
Ion Ratio Lower Upper
164 100
166 125.1 103.7 155.5
129 101.8 79.9 119.9
131 97.0 78.4 117.6





#65
Chlorobenzene
Concen: 49.084 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

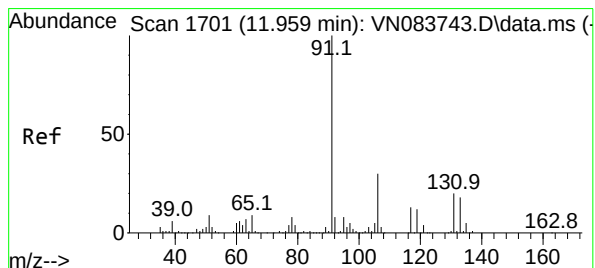
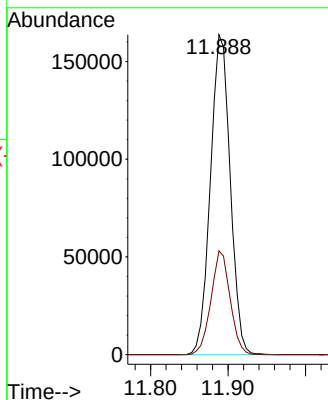
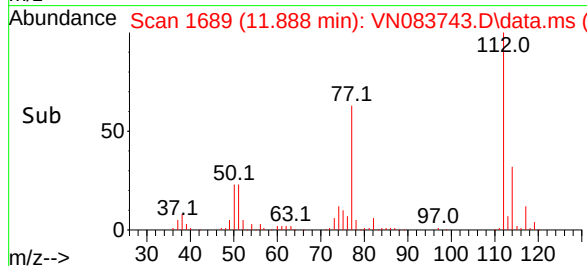
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:112 Resp: 290168
Ion Ratio Lower Upper
112 100
114 32.5 25.7 38.5

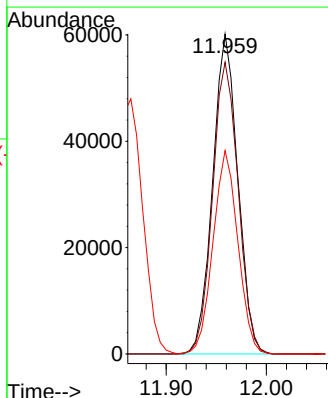
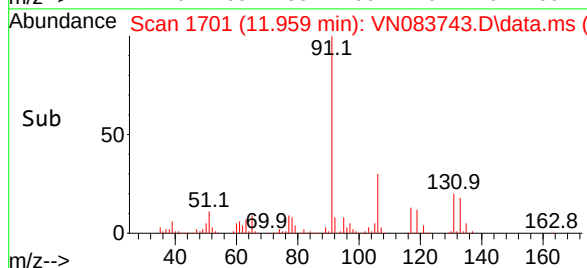
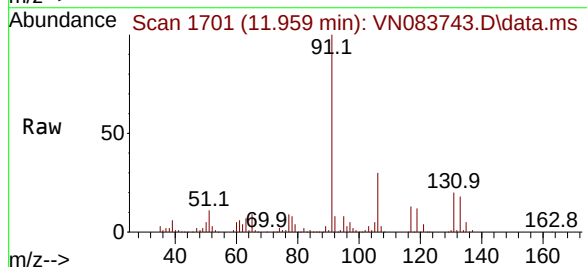
Manual Integrations
APPROVED

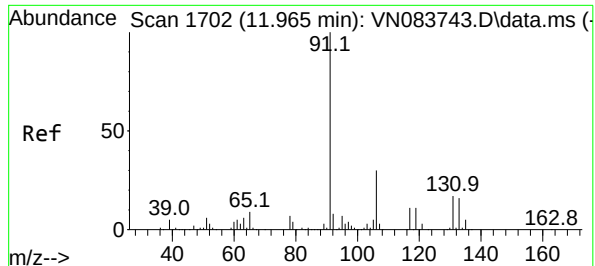
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 51.096 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

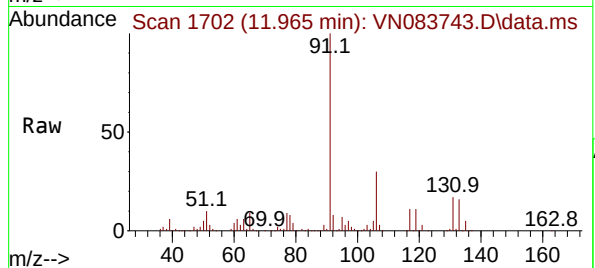
Tgt Ion:131 Resp: 104718
Ion Ratio Lower Upper
131 100
133 93.2 47.5 142.6
119 63.0 31.6 94.8





#67
Ethyl Benzene
Concen: 51.395 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

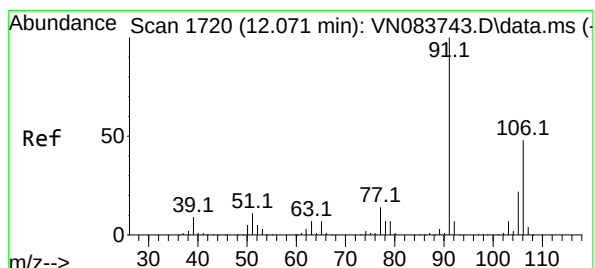
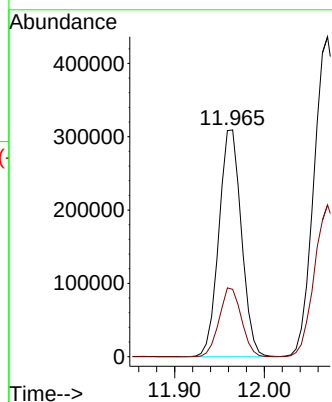
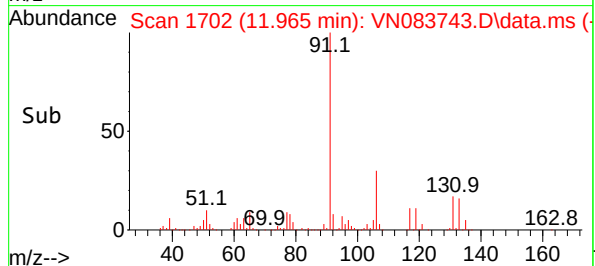
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 91 Resp: 53973
Ion Ratio Lower Upper
91 100
106 29.7 24.3 36.5

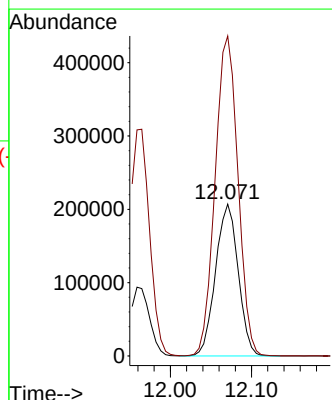
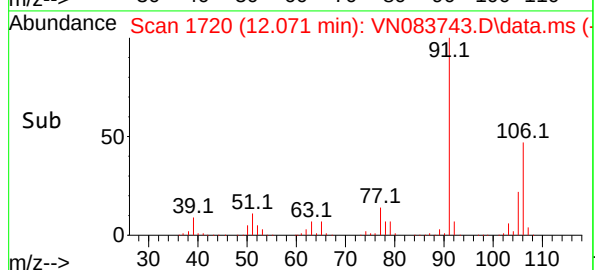
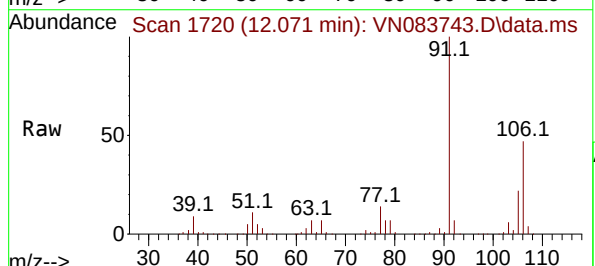
Manual Integrations
APPROVED

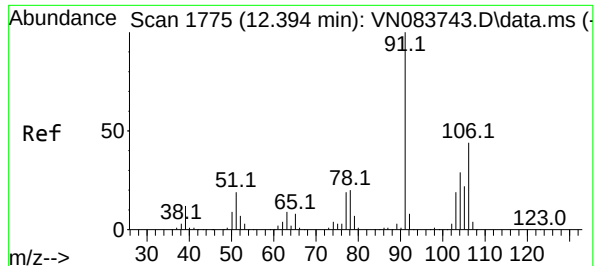
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#68
m/p-Xylenes
Concen: 102.926 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:106 Resp: 401299
Ion Ratio Lower Upper
106 100
91 212.7 169.2 253.8





#69

o-Xylene

Concen: 52.119 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:106 Resp: 19672

Ion Ratio Lower Upper

106 100

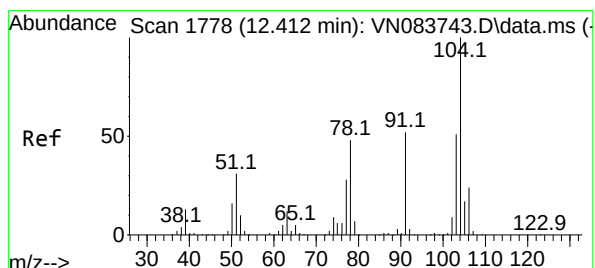
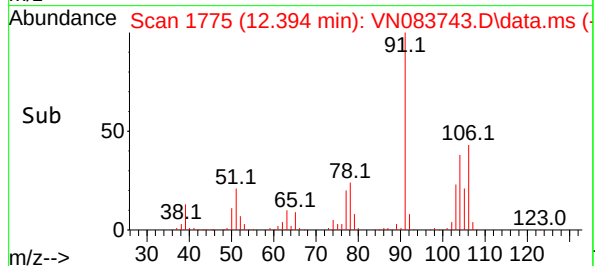
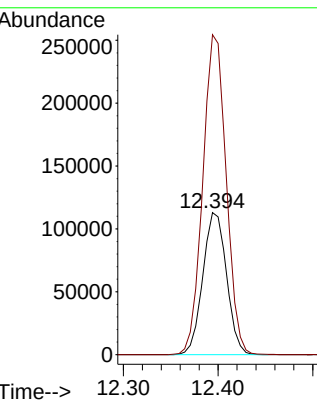
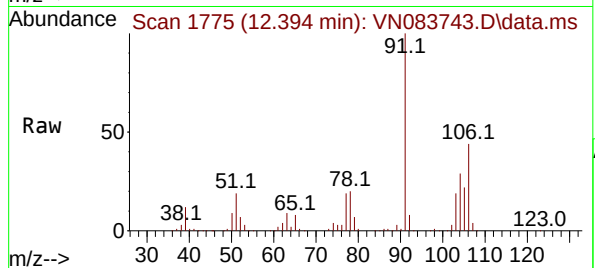
91 222.4 112.9 338.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#70

Styrene

Concen: 53.417 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

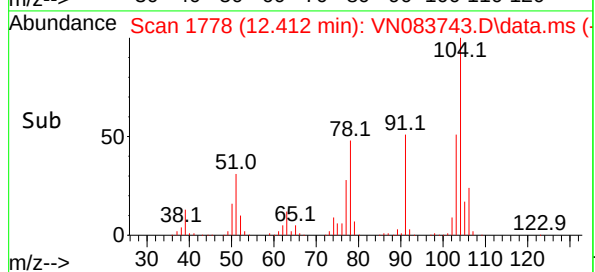
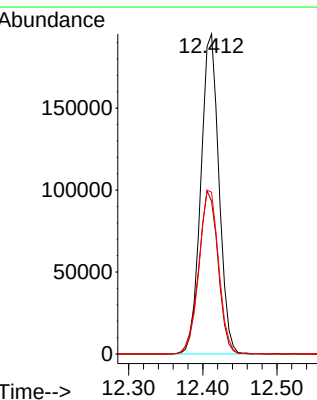
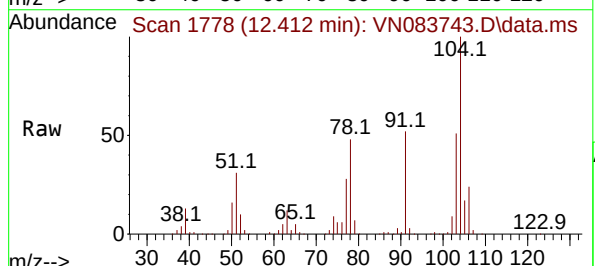
Tgt Ion:104 Resp: 330888

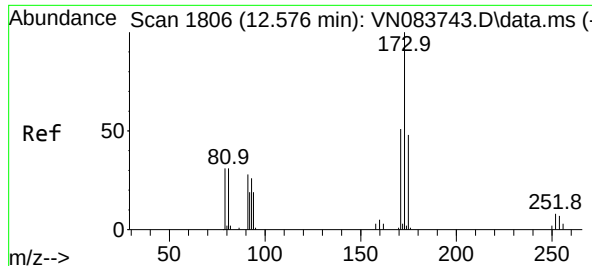
Ion Ratio Lower Upper

104 100

78 54.3 43.3 64.9

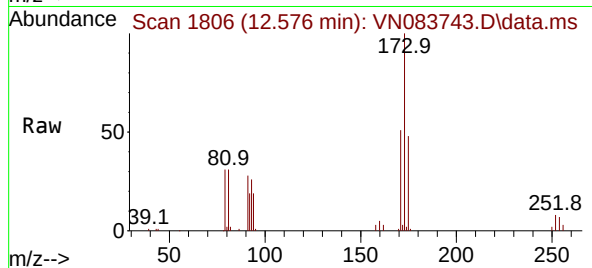
103 55.5 43.4 65.2





#71
Bromoform
Concen: 53.596 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

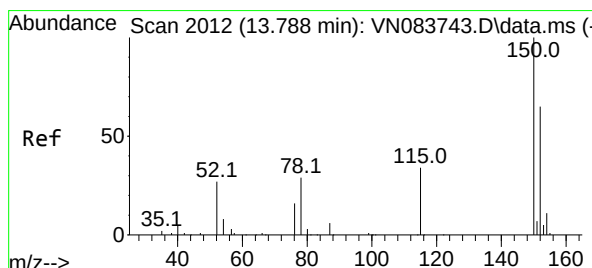
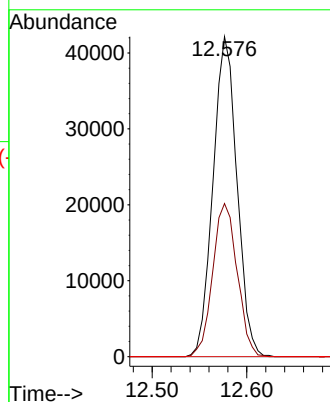
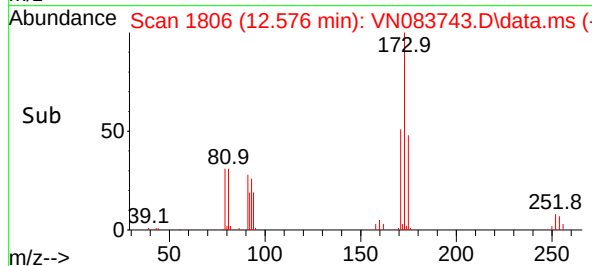
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:173 Resp: 7401
Ion Ratio Lower Upper
173 100
175 49.0 24.1 72.2
254 0.0 0.0 0.0

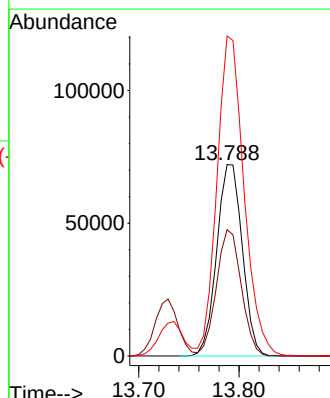
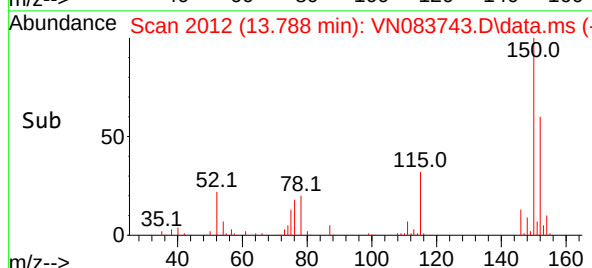
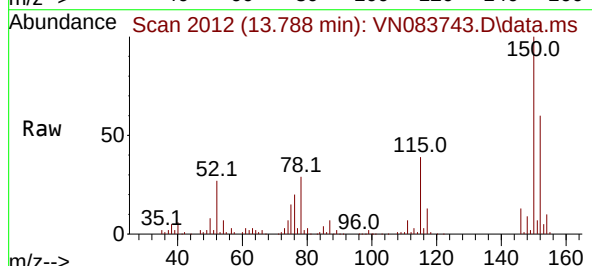
Manual Integrations
APPROVED

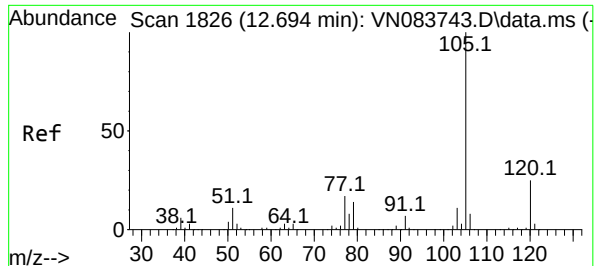
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

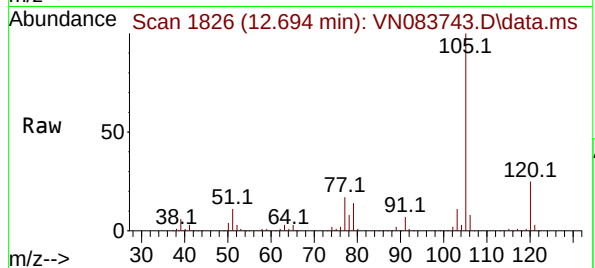
Tgt Ion:152 Resp: 127433
Ion Ratio Lower Upper
152 100
115 64.2 32.2 96.6
150 176.6 0.0 348.6





#73
Isopropylbenzene
Concen: 52.691 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

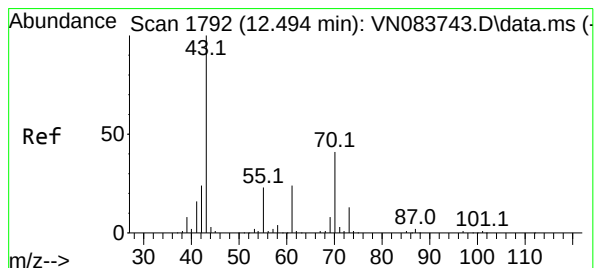
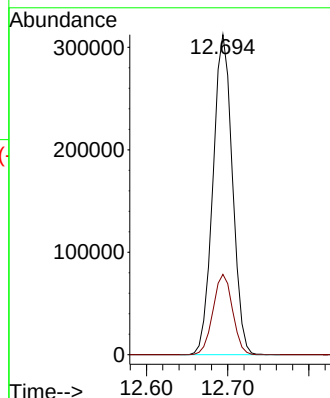
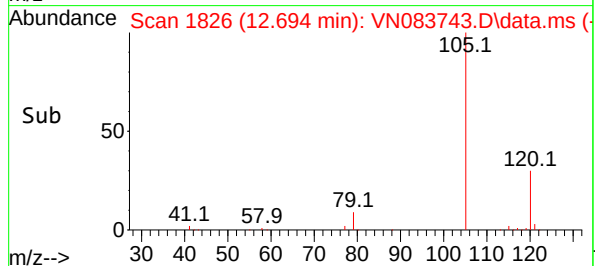
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:105 Resp: 519478
Ion Ratio Lower Upper
105 100
120 25.2 12.6 37.8

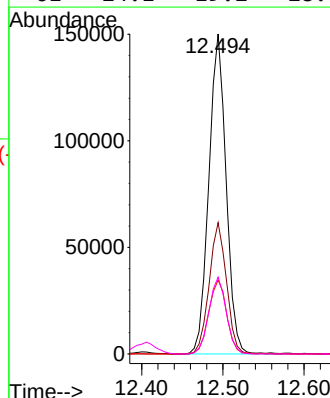
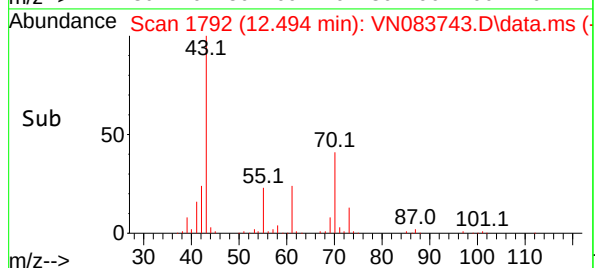
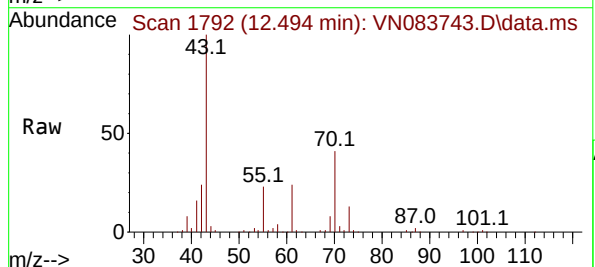
Manual Integrations
APPROVED

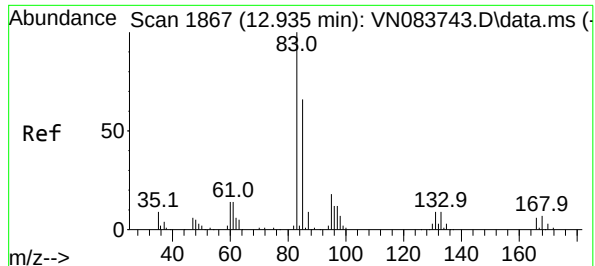
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#74
N-ethyl acetate
Concen: 52.682 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

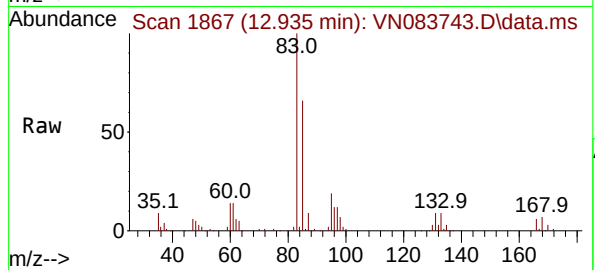
Tgt Ion: 43 Resp: 221603
Ion Ratio Lower Upper
43 100
70 41.2 34.5 51.7
55 24.0 18.6 28.0
61 24.1 19.2 28.8





#75
1,1,2,2-Tetrachloroethane
Concen: 48.166 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

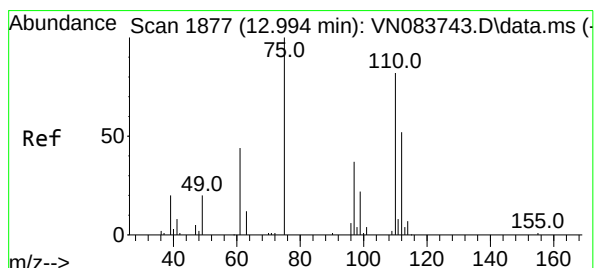
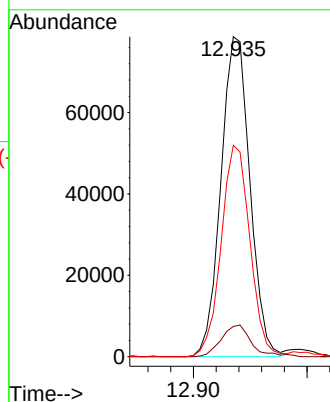
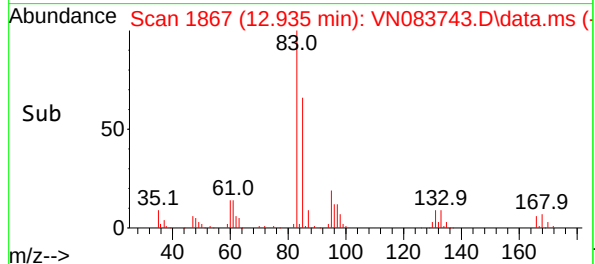
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 83 Resp: 13952
Ion Ratio Lower Upper
83 100
131 10.3 5.2 15.6
85 65.5 31.9 95.9

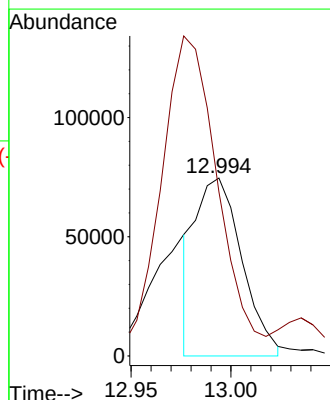
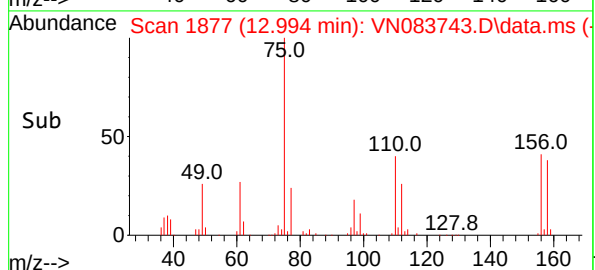
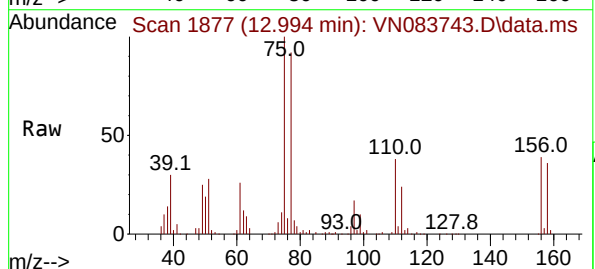
Manual Integrations
APPROVED

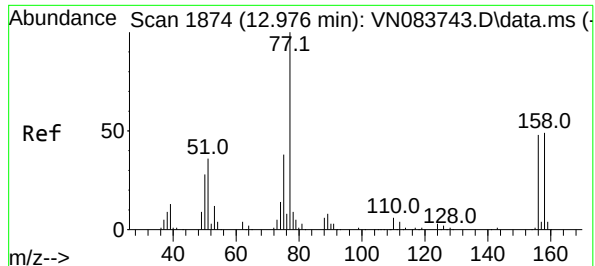
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#76
1,2,3-Trichloropropane
Concen: 46.684 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

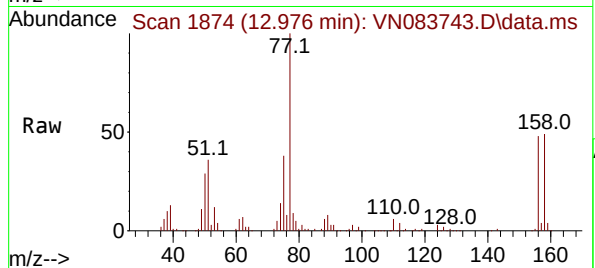
Tgt Ion: 75 Resp: 120040
Ion Ratio Lower Upper
75 100
77 221.9 95.2 285.6





#77
Bromobenzene
Concen: 48.259 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

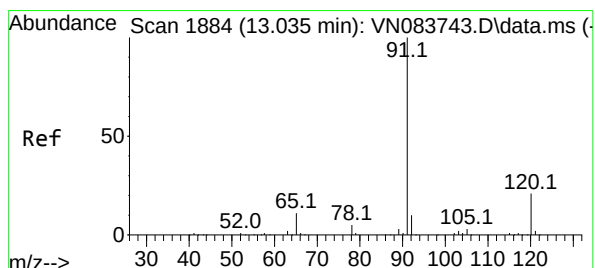
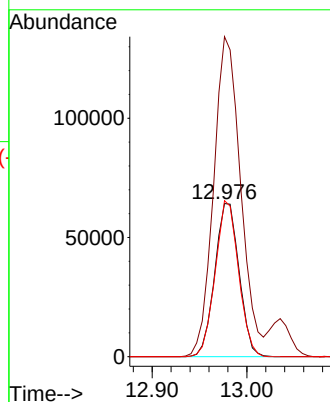
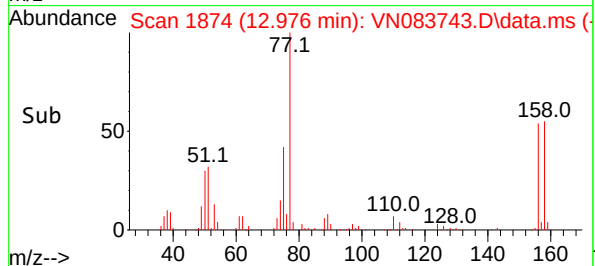
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:156 Resp: 11452
Ion Ratio Lower Upper
156 100
77 232.6 114.3 343.1
158 97.8 48.9 146.7

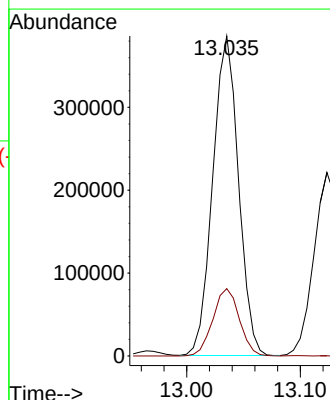
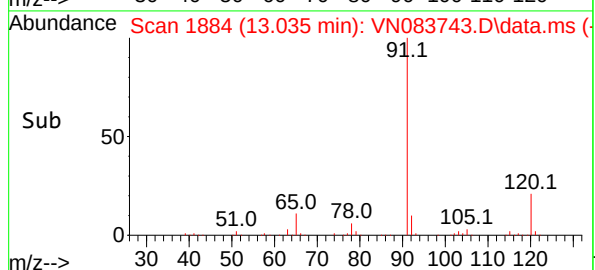
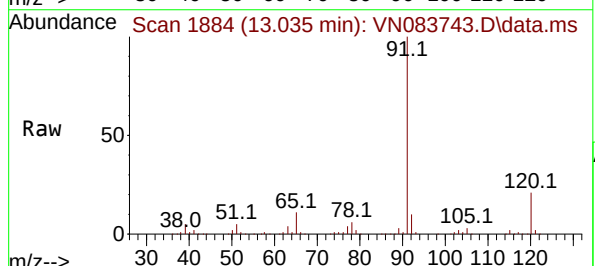
Manual Integrations
APPROVED

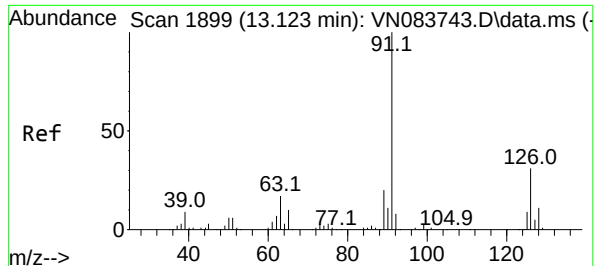
Reviewed By :John Carbone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#78
n-propylbenzene
Concen: 52.864 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 91 Resp: 606410
Ion Ratio Lower Upper
91 100
120 21.7 11.0 33.0





#79

2-Chlorotoluene

Concen: 50.391 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 368649

Ion Ratio Lower Upper

91 100

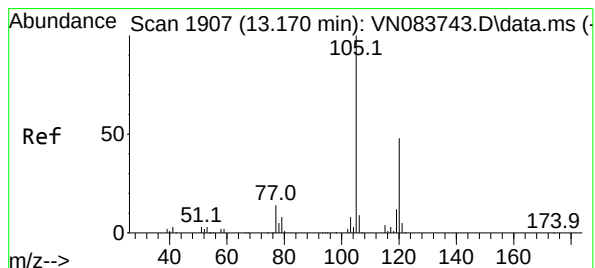
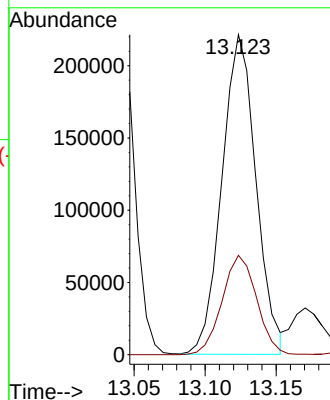
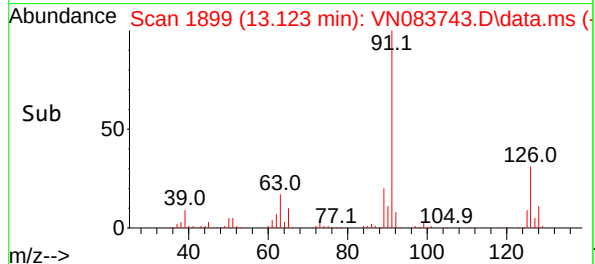
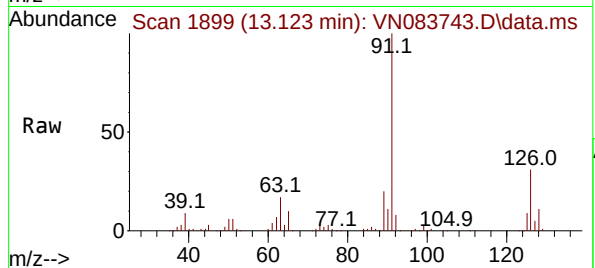
126 31.6 15.4 46.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#80

1,3,5-Trimethylbenzene

Concen: 52.415 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN083743.D

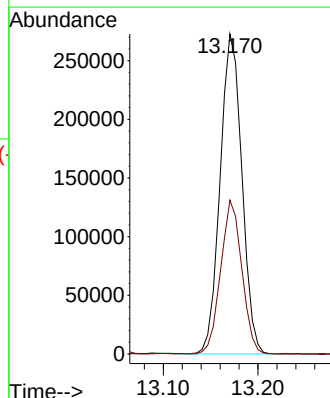
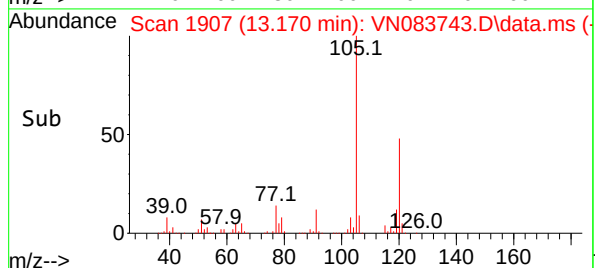
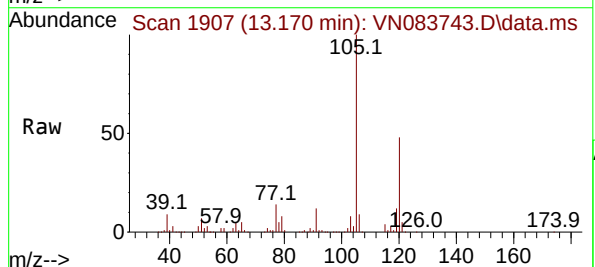
Acq: 10 Sep 2024 09:32

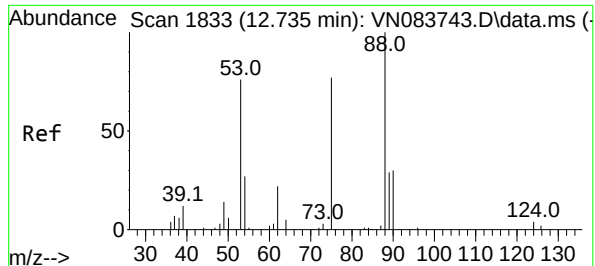
Tgt Ion:105 Resp: 435677

Ion Ratio Lower Upper

105 100

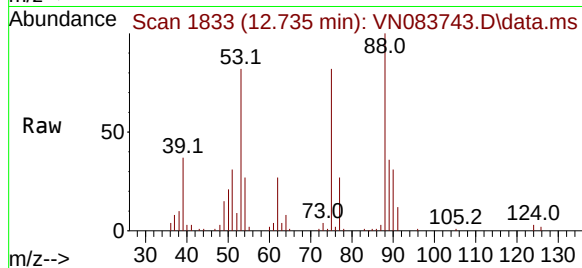
120 46.8 23.4 70.3





#81
trans-1,4-Dichloro-2-butene
Concen: 53.325 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

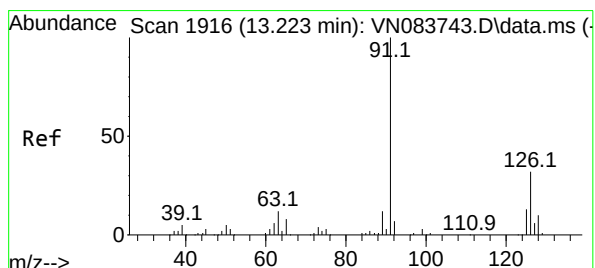
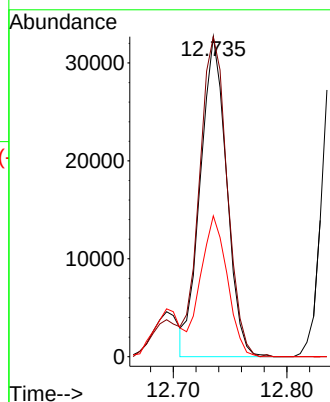
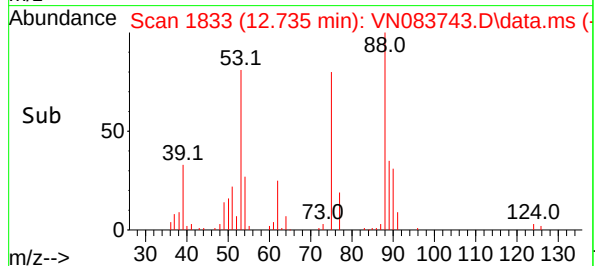
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 75 Resp: 5235
Ion Ratio Lower Upper
75 100
53 105.7 81.2 121.8
89 44.3 35.7 53.5

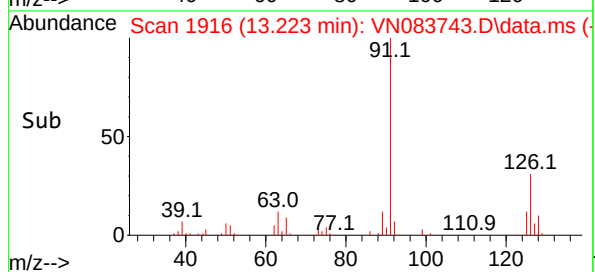
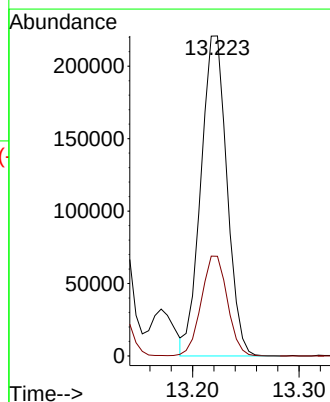
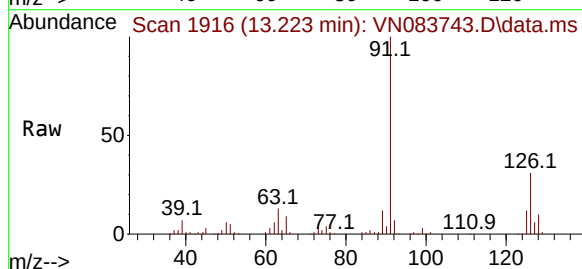
Manual Integrations
APPROVED

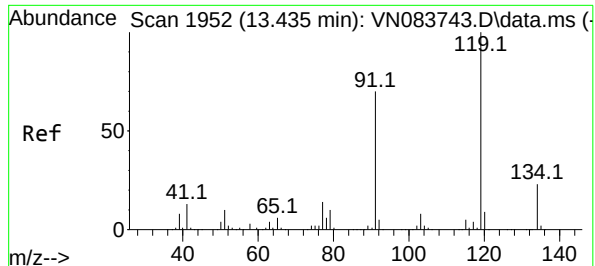
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#82
4-Chlorotoluene
Concen: 51.180 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

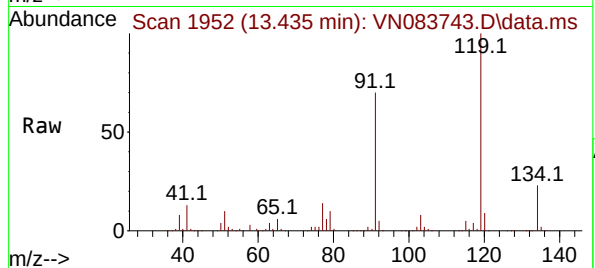
Tgt Ion: 91 Resp: 375734
Ion Ratio Lower Upper
91 100
126 31.3 15.4 46.2





#83
tert-Butylbenzene
Concen: 52.809 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

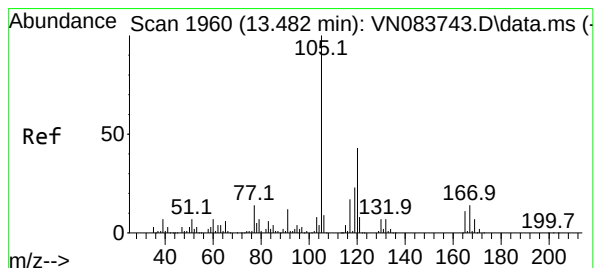
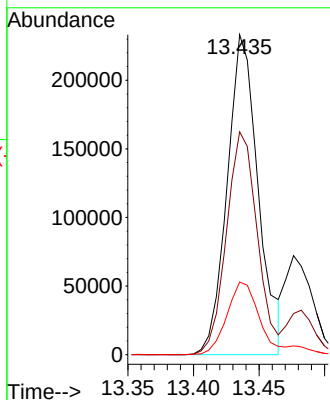
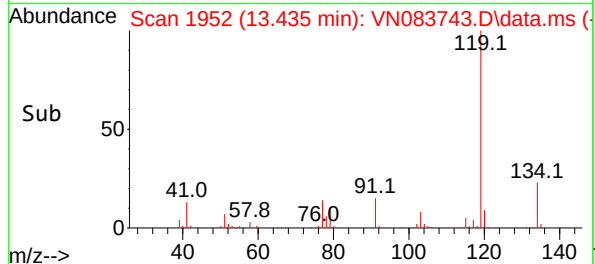
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:119 Resp: 384034
Ion Ratio Lower Upper
119 100
91 69.3 34.5 103.6
134 25.5 12.8 38.4

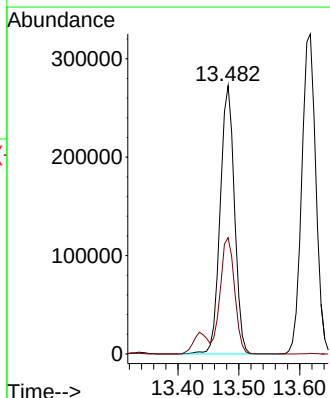
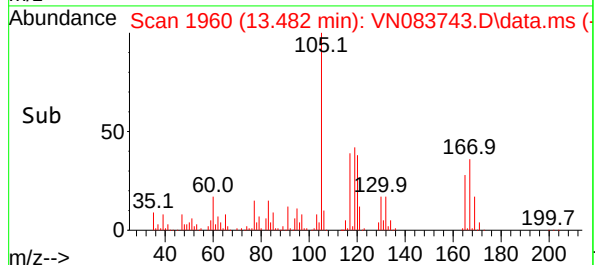
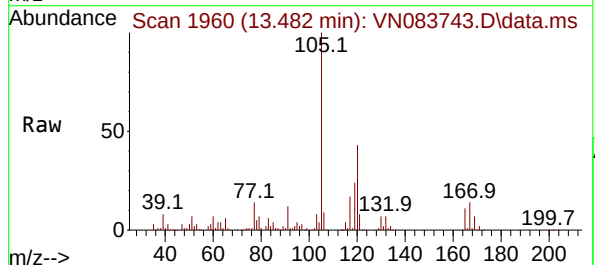
Manual Integrations
APPROVED

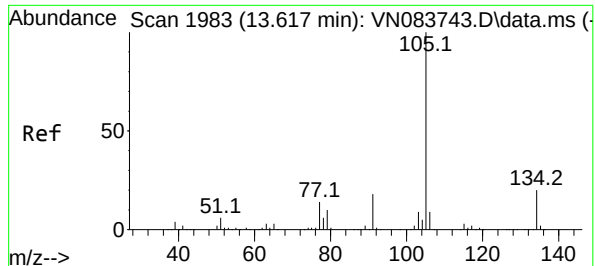
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#84
1,2,4-Trimethylbenzene
Concen: 53.164 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:105 Resp: 443899
Ion Ratio Lower Upper
105 100
120 43.6 21.8 65.4





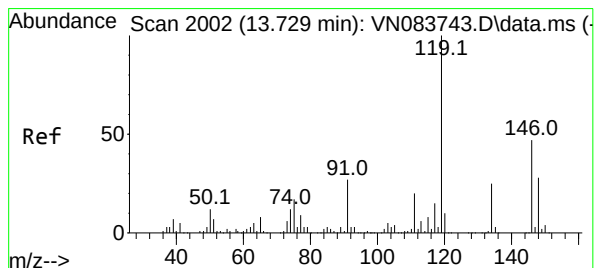
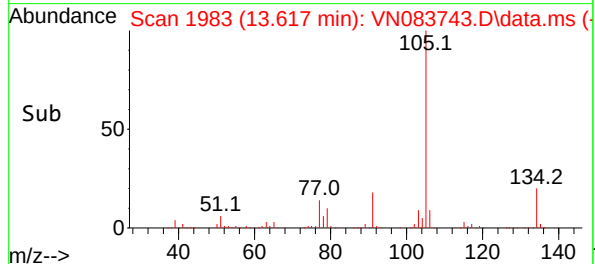
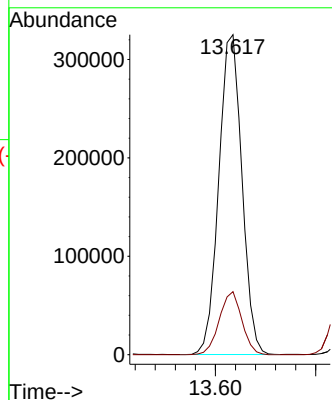
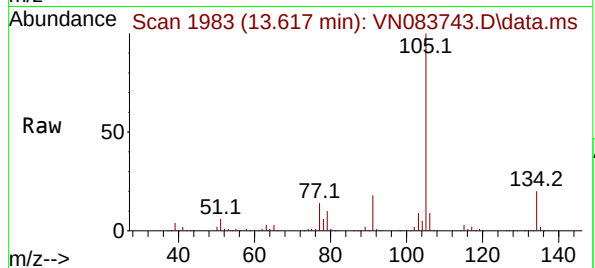
#85
sec-Butylbenzene
Concen: 53.962 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 52044
Ion Ratio Lower Upper
105 100
134 19.2 9.7 29.1

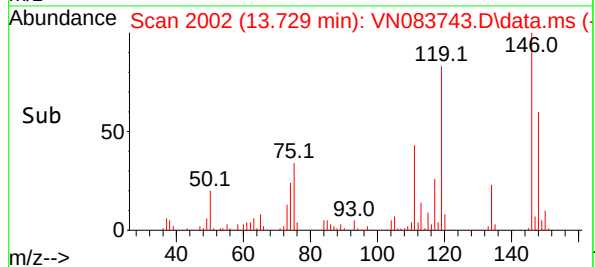
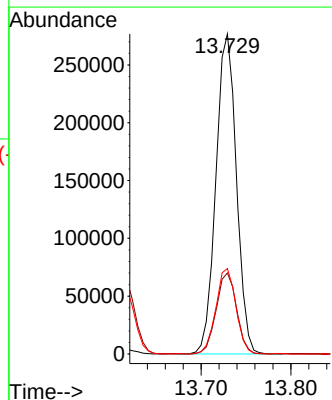
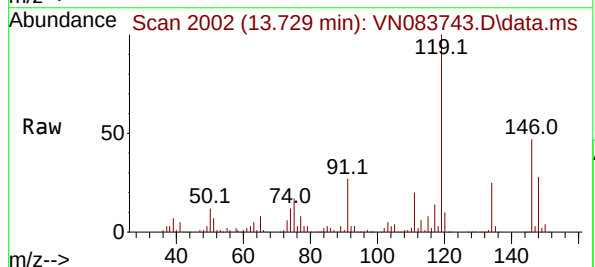
Manual Integrations
APPROVED

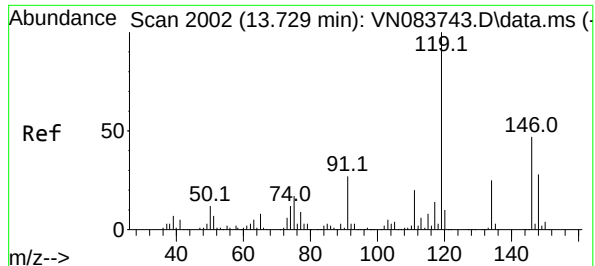
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#86
p-Isopropyltoluene
Concen: 54.344 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:119 Resp: 439355
Ion Ratio Lower Upper
119 100
134 25.2 12.8 38.3
91 26.1 12.9 38.7





#87

1,3-Dichlorobenzene

Concen: 49.548 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

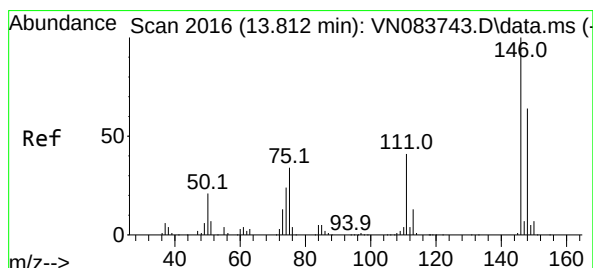
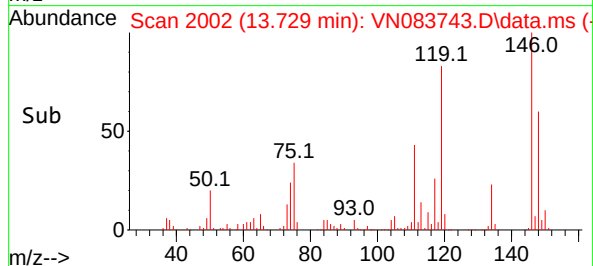
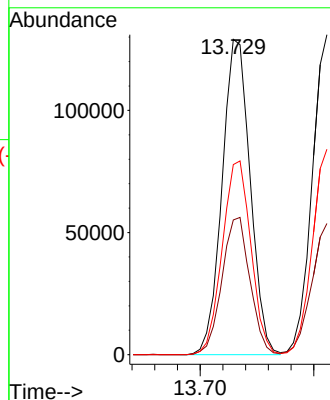
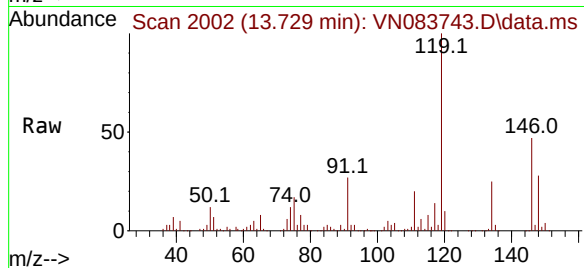
Tgt Ion:146	Resp:	221915
Ion Ratio	Lower	Upper
146	100	
111	43.4	21.7 65.1
148	62.7	31.7 95.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#88

1,4-Dichlorobenzene

Concen: 48.914 ug/l

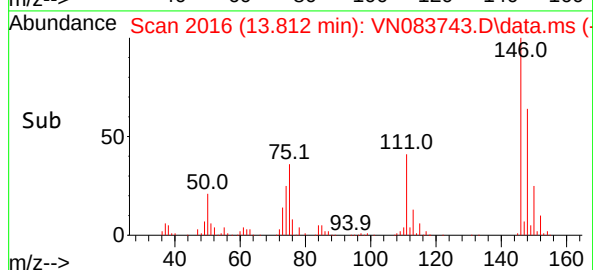
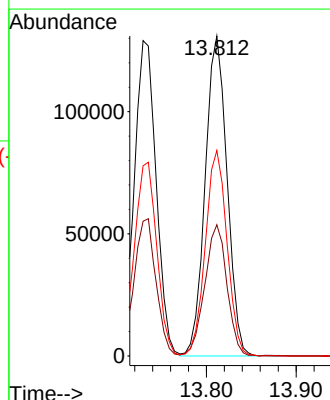
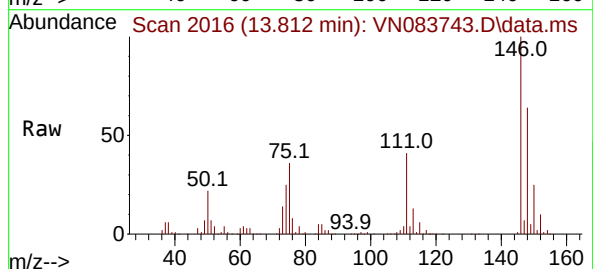
RT: 13.812 min Scan# 2016

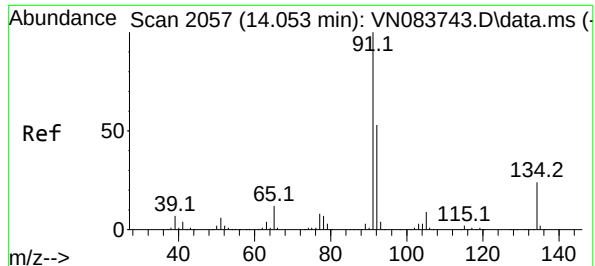
Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Tgt Ion:146	Resp:	221827
Ion Ratio	Lower	Upper
146	100	
111	41.6	21.3 64.0
148	63.5	32.0 96.2





#89

n-Butylbenzene

Concen: 52.700 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 38253

Ion Ratio Lower Upper

91 100

92 53.3 26.7 80.1

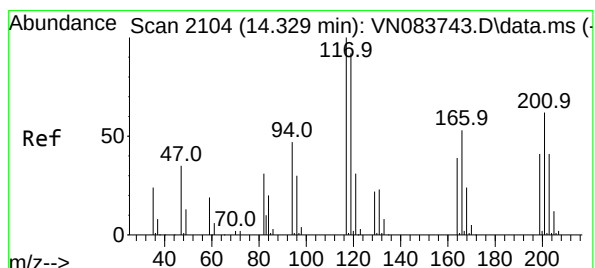
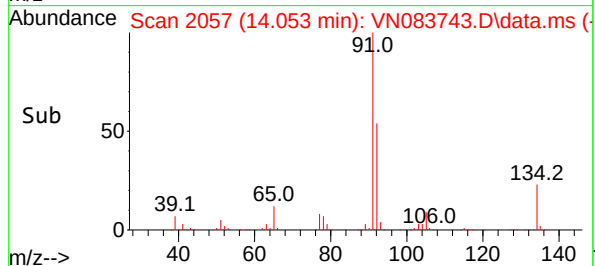
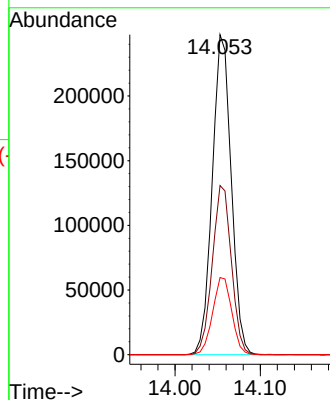
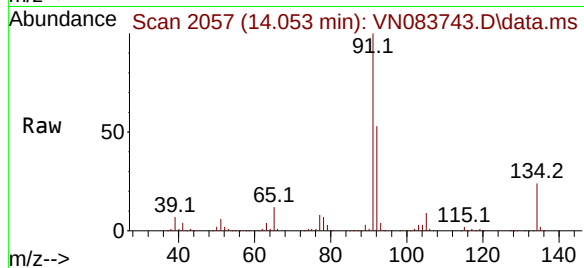
134 24.3 12.2 36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#90

Hexachloroethane

Concen: 50.348 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. 0.000 min

Lab File: VN083743.D

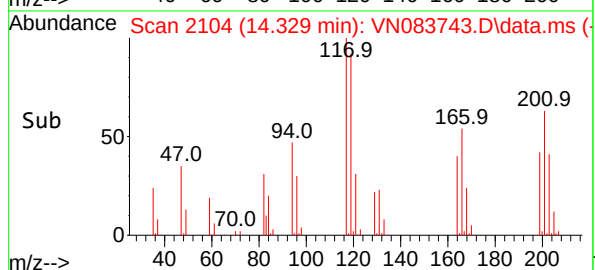
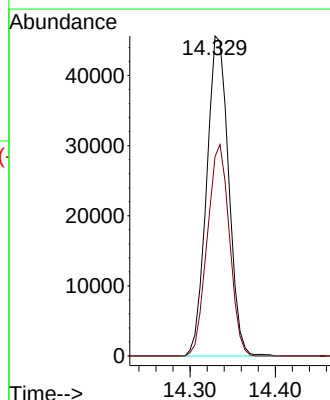
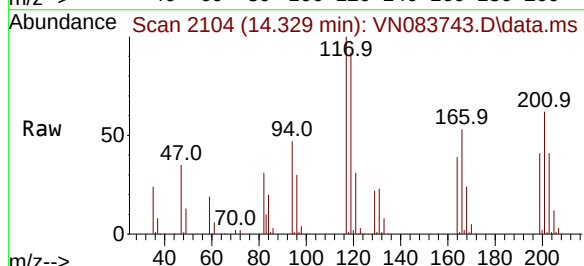
Acq: 10 Sep 2024 09:32

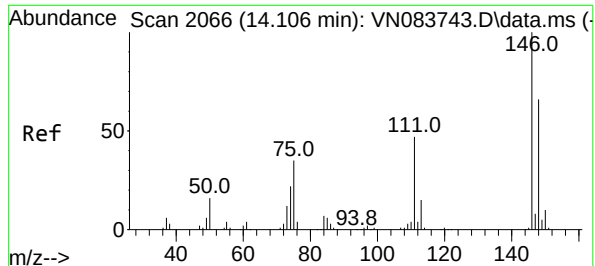
Tgt Ion:117 Resp: 81825

Ion Ratio Lower Upper

117 100

201 66.4 32.8 98.3





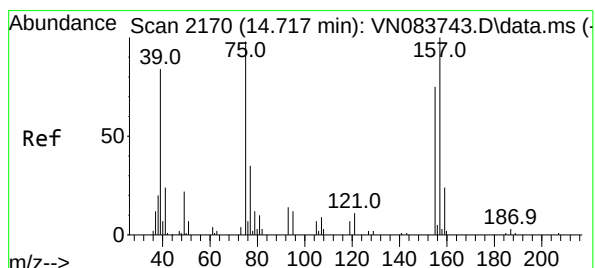
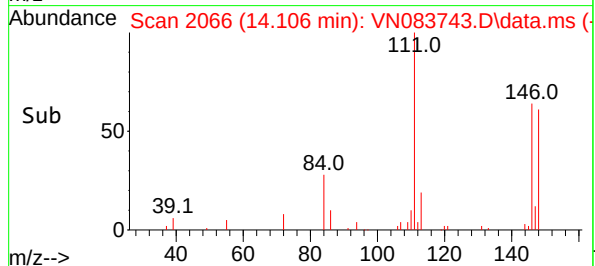
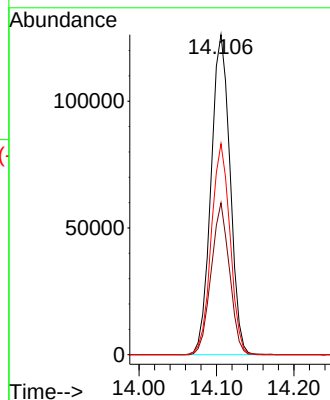
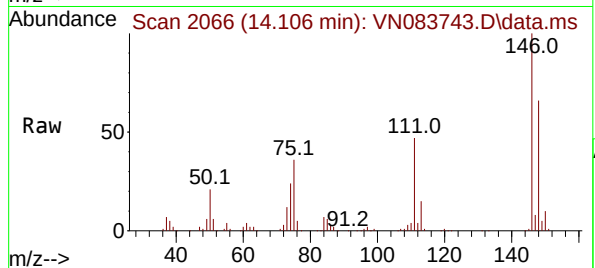
#91
1,2-Dichlorobenzene
Concen: 49.777 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 215150
Ion Ratio Lower Upper
146 100
111 45.6 22.8 68.3
148 65.0 32.1 96.5

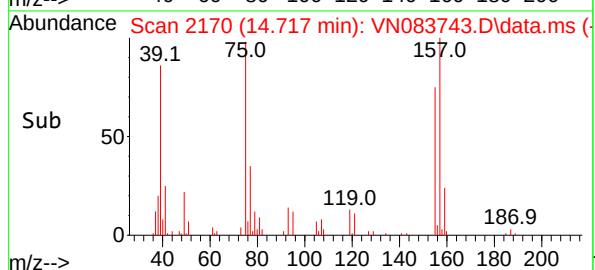
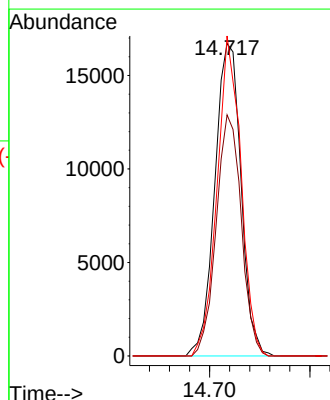
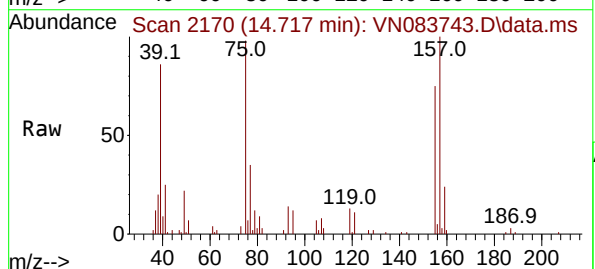
Manual Integrations
APPROVED

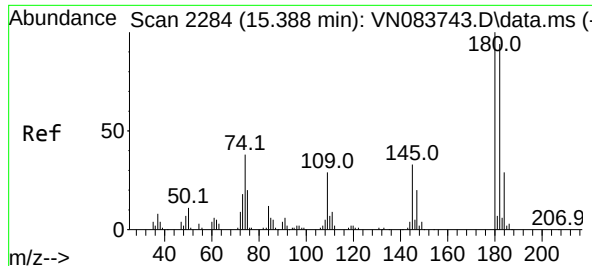
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 52.330 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 75 Resp: 30218
Ion Ratio Lower Upper
75 100
155 73.9 35.9 107.7
157 93.2 47.5 142.5





#93

1,2,4-Trichlorobenzene

Concen: 51.209 ug/l

RT: 15.388 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:180 Resp: 118780

Ion Ratio Lower Upper

180 100

182 94.0 48.1 144.3

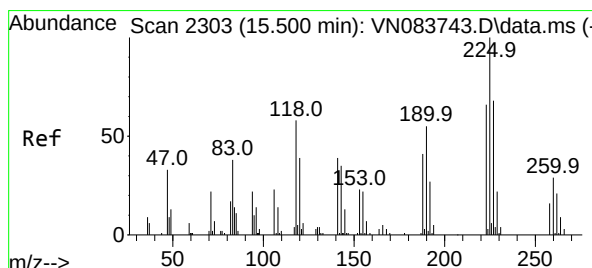
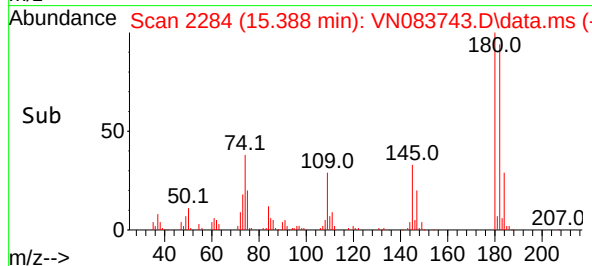
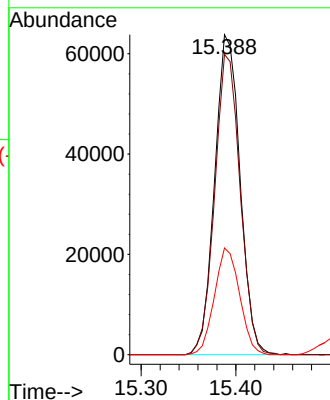
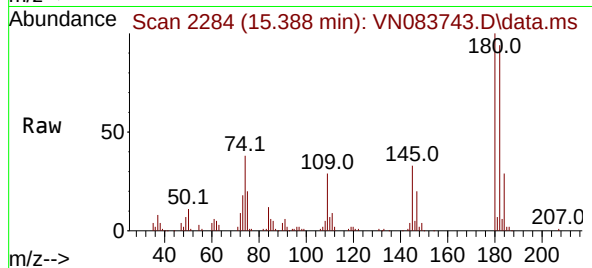
145 33.1 16.9 50.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#94

Hexachlorobutadiene

Concen: 48.405 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN083743.D

Acq: 10 Sep 2024 09:32

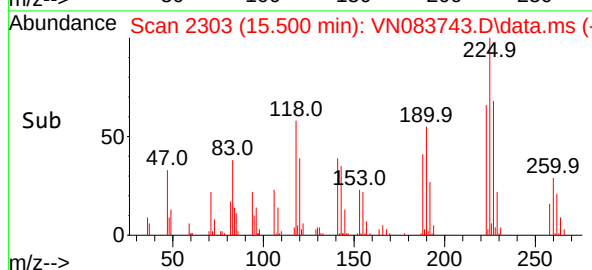
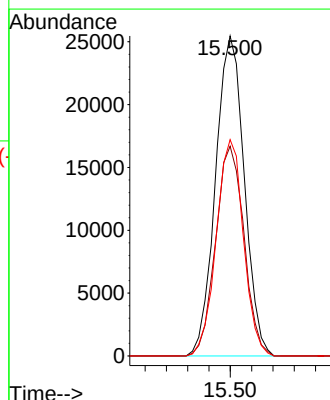
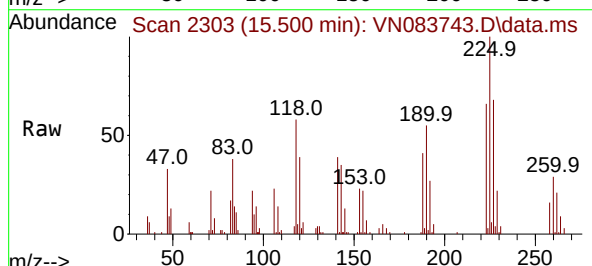
Tgt Ion:225 Resp: 47681

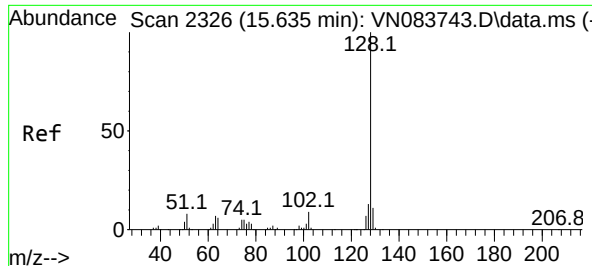
Ion Ratio Lower Upper

225 100

223 64.6 31.9 95.5

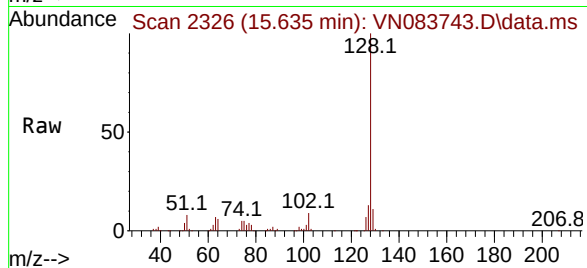
227 63.9 32.0 96.2





#95
Naphthalene
Concen: 54.471 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

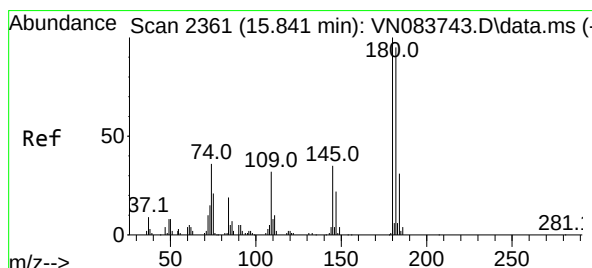
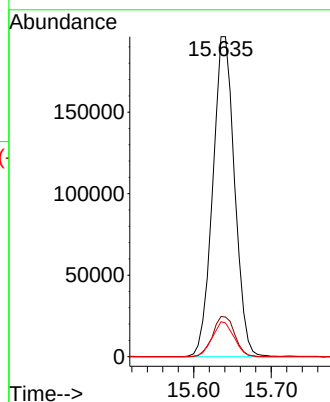
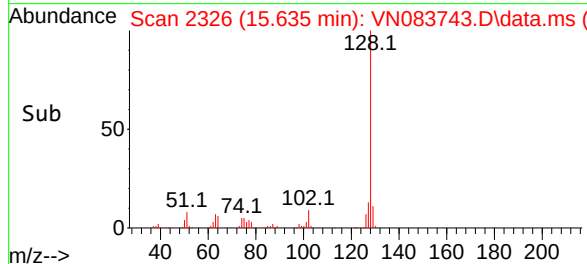
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:128 Resp: 384390
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 10.8 8.7 13.1

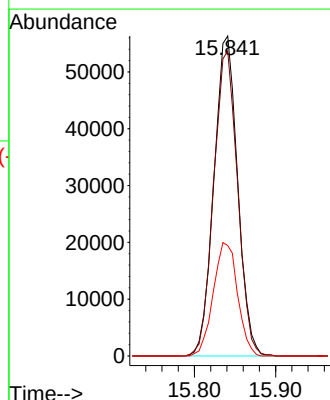
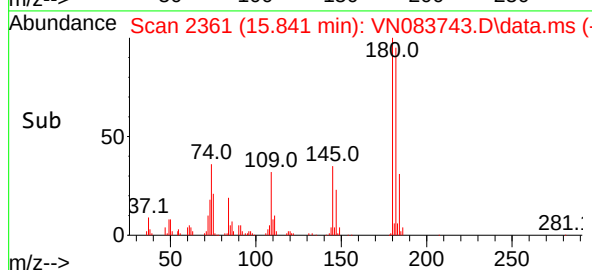
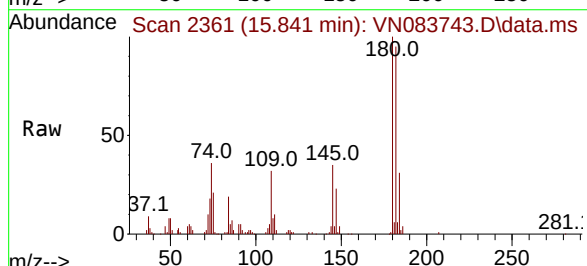
Manual Integrations
APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#96
1,2,3-Trichlorobenzene
Concen: 51.447 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:180 Resp: 114047
Ion Ratio Lower Upper
180 100
182 96.3 47.1 141.4
145 36.4 17.8 53.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
 Data File : VN083745.D
 Acq On : 10 Sep 2024 10:20
 Operator : JC\MD
 Sample : VSTDIC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/11/2024
 Supervised By : Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:55:43 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 01:38:19 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	159723	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	280181	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	236954	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	106718	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	27018	11.218	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	22.440%#		
35) Dibromofluoromethane	8.165	113	19074	10.634	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	21.260%#		
50) Toluene-d8	10.565	98	67177	10.833	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	21.660%#		
62) 4-Bromofluorobenzene	12.847	95	25692	10.043	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	20.080%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	17832	9.613	ug/l	99
3) Chloromethane	2.359	50	19771	8.921	ug/l	92
4) Vinyl Chloride	2.518	62	19072	9.380	ug/l	100
5) Bromomethane	2.906	94	10815	9.264	ug/l	93
6) Chloroethane	3.077	64	14313	10.147	ug/l	91
7) Trichlorofluoromethane	3.471	101	30532	8.847	ug/l	99
8) Diethyl Ether	3.947	74	11175	9.660	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.365	101	16686	9.122	ug/l	98
10) Methyl Iodide	4.571	142	20736	8.913	ug/l	92
11) Tert butyl alcohol	5.536	59	14238	44.148	ug/l #	85
12) 1,1-Dichloroethene	4.324	96	15206	8.802	ug/l	93
13) Acrolein	4.165	56	16181	50.851	ug/l	95
14) Allyl chloride	5.018	41	28937	9.400	ug/l	97
15) Acrylonitrile	5.718	53	38879	44.329	ug/l	99
16) Acetone	4.430	43	39908	41.335	ug/l	97
17) Carbon Disulfide	4.700	76	43363	8.973	ug/l	98
18) Methyl Acetate	5.030	43	19195	7.983	ug/l	96
19) Methyl tert-butyl Ether	5.794	73	56481	9.035	ug/l	97
20) Methylene Chloride	5.265	84	18112	9.167	ug/l	95
21) trans-1,2-Dichloroethene	5.783	96	16680	9.009	ug/l	96
22) Diisopropyl ether	6.677	45	57127	9.015	ug/l	95
23) Vinyl Acetate	6.600	43	200248	43.152	ug/l	99
24) 1,1-Dichloroethane	6.565	63	32397	8.874	ug/l	98
25) 2-Butanone	7.482	43	53716	42.331	ug/l	96
26) 2,2-Dichloropropane	7.482	77	29484	8.770	ug/l	97
27) cis-1,2-Dichloroethene	7.482	96	19822	9.019	ug/l	97
28) Bromochloromethane	7.818	49	15146	9.852	ug/l	97
29) Tetrahydrofuran	7.841	42	33637	44.830	ug/l	97
30) Chloroform	7.965	83	34532	8.910	ug/l	95
31) Cyclohexane	8.253	56	32476	9.330	ug/l	95
32) 1,1,1-Trichloroethane	8.159	97	31603	8.868	ug/l	96
36) 1,1-Dichloropropene	8.371	75	23317	8.637	ug/l	100
37) Ethyl Acetate	7.559	43	22049	8.998	ug/l #	86
38) Carbon Tetrachloride	8.359	117	26621	8.692	ug/l	98
39) Methylcyclohexane	9.594	83	26714	8.693	ug/l	97
40) Benzene	8.606	78	71965	8.856	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
 Data File : VN083745.D
 Acq On : 10 Sep 2024 10:20
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:55:43 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M

Quant Title : SW846 8260

QLast Update : Wed Sep 11 01:38:19 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.782	41	11838	8.168	ug/l	94
42) 1,2-Dichloroethane	8.671	62	27764	9.144	ug/l	98
43) Isopropyl Acetate	8.688	43	38533	8.677	ug/l	95
44) Trichloroethene	9.347	130	16783	8.919	ug/l	93
45) 1,2-Dichloropropane	9.618	63	16998	8.655	ug/l	94
46) Dibromomethane	9.706	93	12363	8.987	ug/l	99
47) Bromodichloromethane	9.888	83	25823	8.674	ug/l	97
48) Methyl methacrylate	9.682	41	18399	8.733	ug/l	98
49) 1,4-Dioxane	9.694	88	6088	175.652	ug/l #	99
51) 4-Methyl-2-Pentanone	10.441	43	106177	43.923	ug/l	96
52) Toluene	10.629	92	43293	8.710	ug/l	94
53) t-1,3-Dichloropropene	10.835	75	26156	8.667	ug/l	93
54) cis-1,3-Dichloropropene	10.306	75	28646	9.037	ug/l	93
55) 1,1,2-Trichloroethane	11.018	97	16191	8.725	ug/l	94
56) Ethyl methacrylate	10.870	69	24616	8.622	ug/l	94
57) 1,3-Dichloropropane	11.159	76	28273	8.865	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	49705	48.319	ug/l	100
59) 2-Hexanone	11.194	43	77251	43.201	ug/l	96
60) Dibromochloromethane	11.359	129	18769	9.038	ug/l	97
61) 1,2-Dibromoethane	11.470	107	15958	8.623	ug/l	99
64) Tetrachloroethene	11.100	164	14312	9.082	ug/l	97
65) Chlorobenzene	11.888	112	46098	8.753	ug/l	92
66) 1,1,1,2-Tetrachloroethane	11.959	131	16565	9.073	ug/l	99
67) Ethyl Benzene	11.965	91	82814	8.852	ug/l	100
68) m/p-Xylenes	12.070	106	61777	17.786	ug/l	100
69) o-Xylene	12.400	106	31015	9.224	ug/l	95
70) Styrene	12.412	104	47767	8.656	ug/l	96
71) Bromoform	12.576	173	10705	8.701	ug/l #	99
73) Isopropylbenzene	12.694	105	76751	9.296	ug/l	99
74) N-amyl acetate	12.494	43	31640	8.982	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	22718	9.365	ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	19154m	8.895	ug/l	
77) Bromobenzene	12.982	156	18859	9.489	ug/l	95
78) n-propylbenzene	13.035	91	86960	9.052	ug/l	99
79) 2-Chlorotoluene	13.123	91	57981	9.464	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	64636	9.286	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	6799	8.269	ug/l	85
82) 4-Chlorotoluene	13.223	91	56980	9.268	ug/l	99
83) tert-Butylbenzene	13.435	119	56069	9.207	ug/l	97
84) 1,2,4-Trimethylbenzene	13.482	105	65280	9.336	ug/l	99
85) sec-Butylbenzene	13.617	105	73381	9.085	ug/l	99
86) p-Isopropyltoluene	13.729	119	60366	8.916	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	33957	9.053	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	35292	9.293	ug/l	97
89) n-Butylbenzene	14.053	91	54517	8.968	ug/l	99
90) Hexachloroethane	14.329	117	12655	9.298	ug/l	96
91) 1,2-Dichlorobenzene	14.106	146	32924	9.096	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.723	75	4562	9.434	ug/l	95
93) 1,2,4-Trichlorobenzene	15.394	180	18092	9.314	ug/l	98
94) Hexachlorobutadiene	15.500	225	7717	9.355	ug/l	96
95) Naphthalene	15.641	128	55361	9.368	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	17348	9.345	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083745.D
Acq On : 10 Sep 2024 10:20
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:55:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

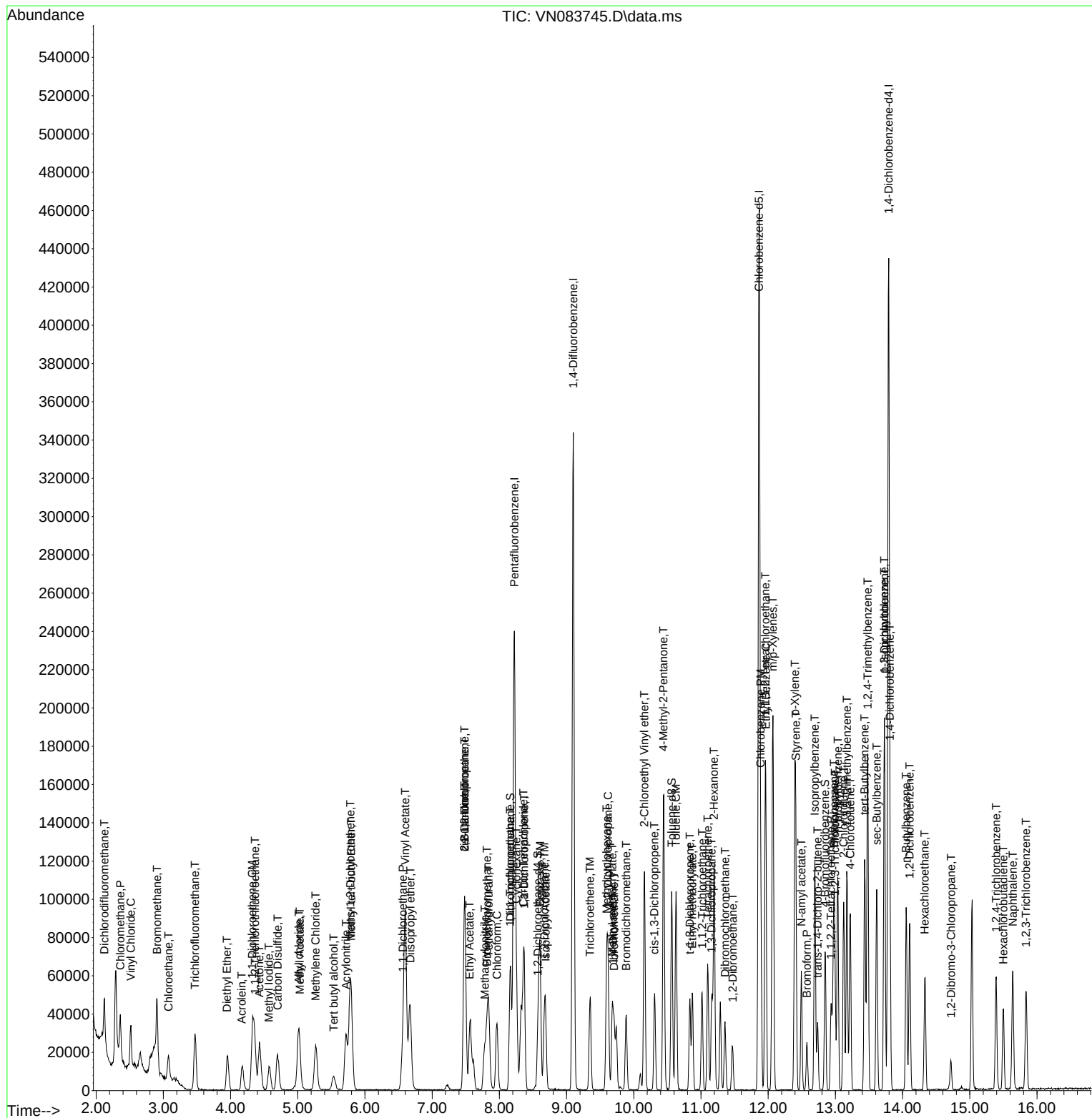
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

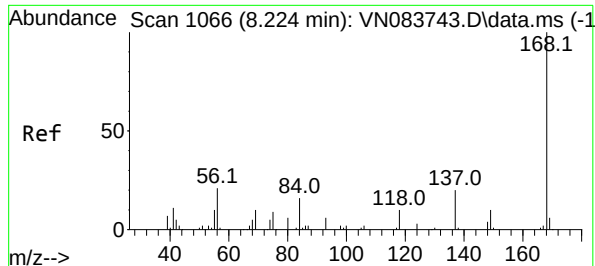
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

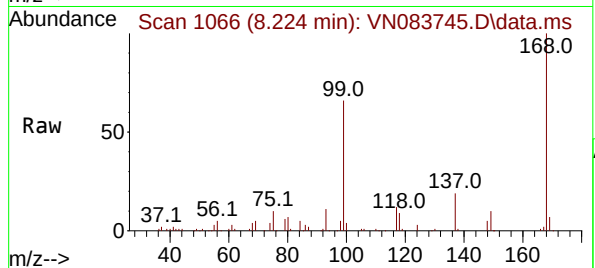
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

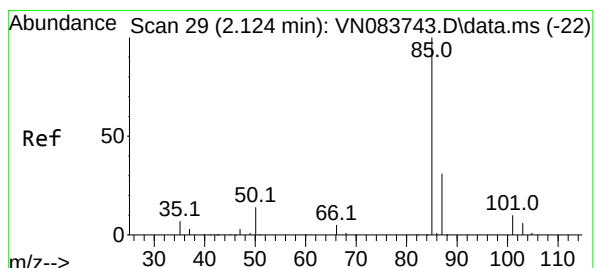
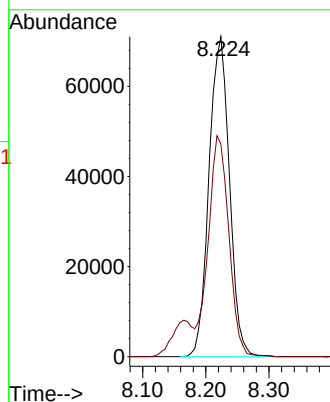
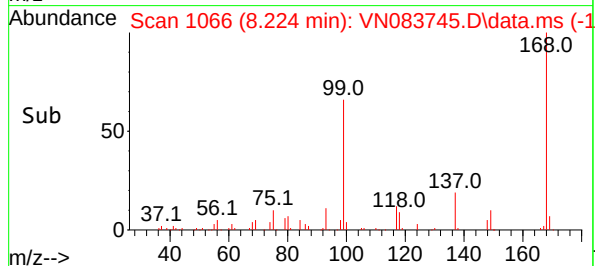
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion:168 Resp: 15972
Ion Ratio Lower Upper
168 100
99 66.5 54.2 81.2

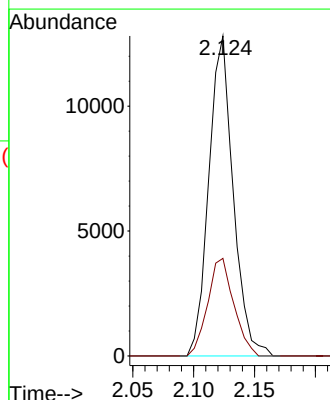
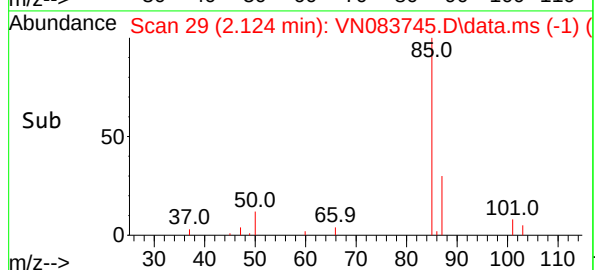
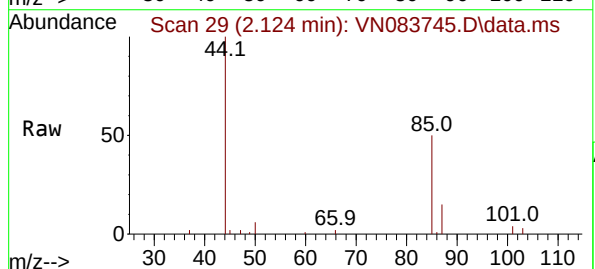
Manual Integrations
APPROVED

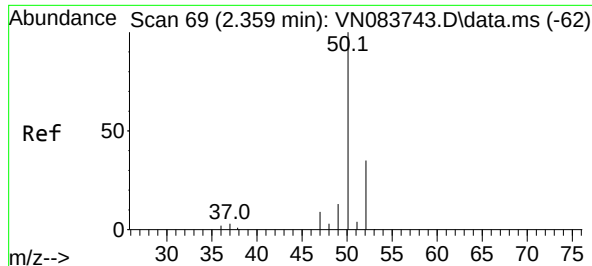
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#2
Dichlorodifluoromethane
Concen: 9.613 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

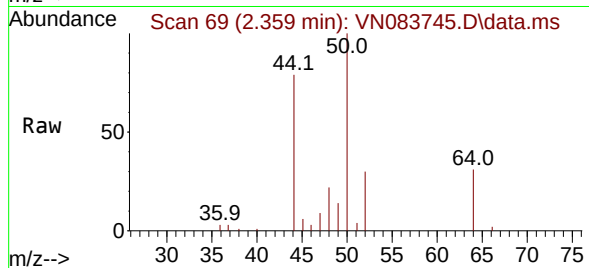
Tgt Ion: 85 Resp: 17832
Ion Ratio Lower Upper
85 100
87 30.5 15.7 47.0





#3
Chloromethane
Concen: 8.921 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

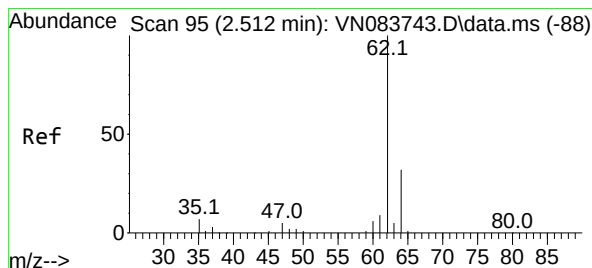
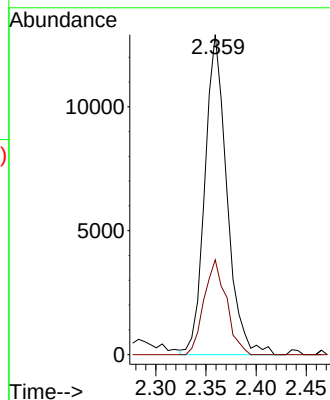
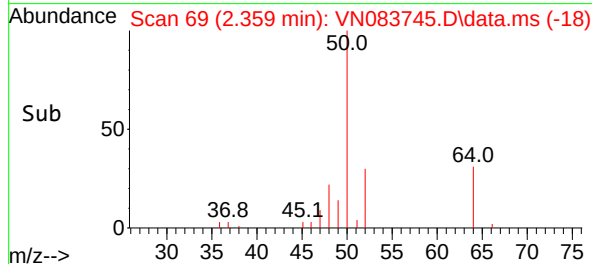
Instrument :
MSVOA_N
Client Sample Id :
VSTDIC010



Tgt Ion: 50 Resp: 1977
Ion Ratio Lower Upper
50 100
52 29.6 27.2 40.8

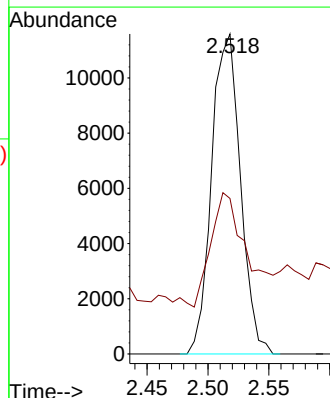
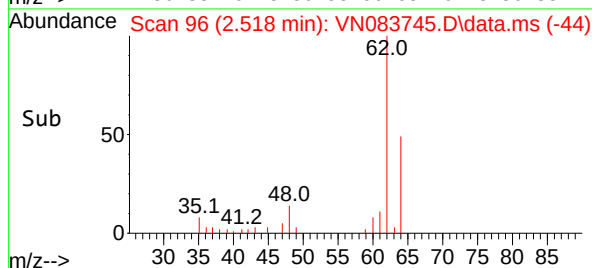
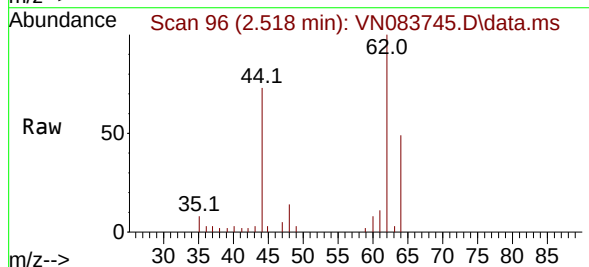
Manual Integrations
APPROVED

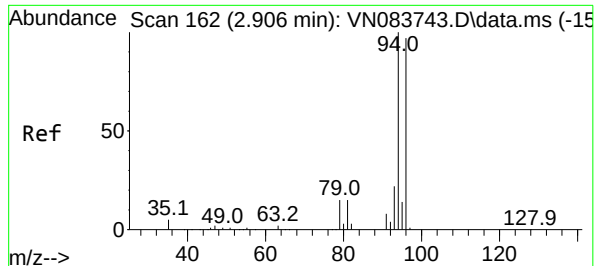
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#4
Vinyl Chloride
Concen: 9.380 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 62 Resp: 19072
Ion Ratio Lower Upper
62 100
64 31.0 24.7 37.1





#5

Bromomethane

Concen: 9.264 ug/l

RT: 2.906 min Scan# 1081

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 94 Resp: 1081

Ion Ratio Lower Upper

94 100

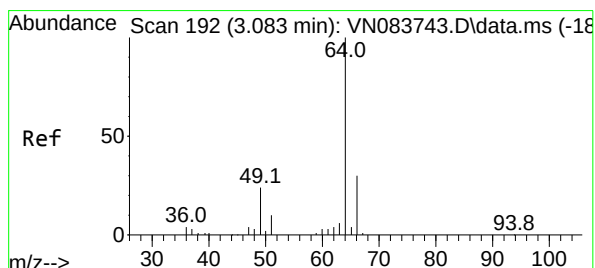
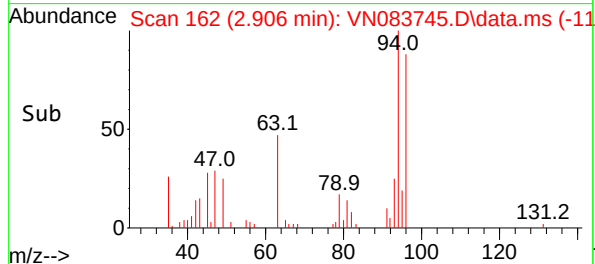
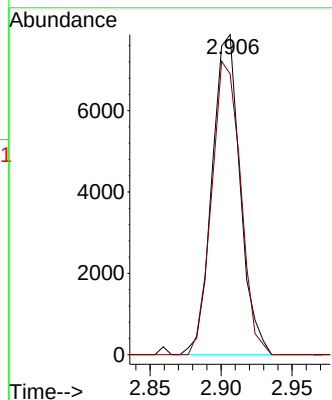
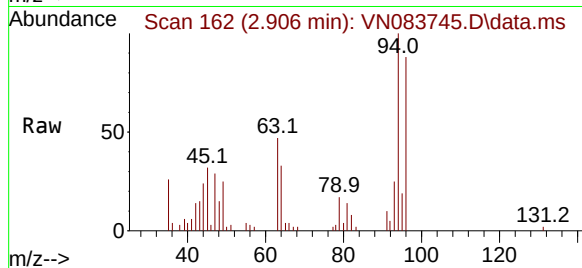
96 87.7 76.0 114.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#6

Chloroethane

Concen: 10.147 ug/l

RT: 3.077 min Scan# 191

Delta R.T. -0.006 min

Lab File: VN083745.D

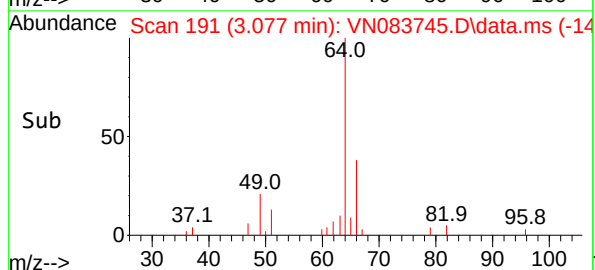
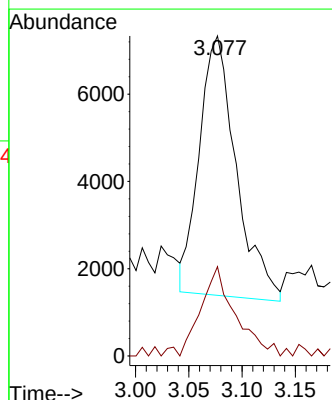
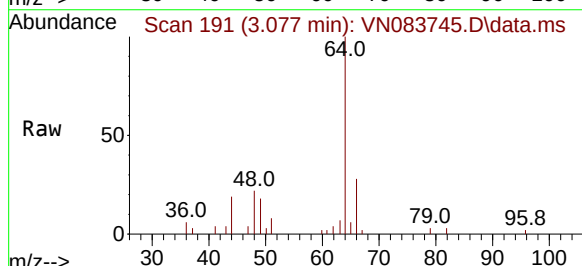
Acq: 10 Sep 2024 10:20

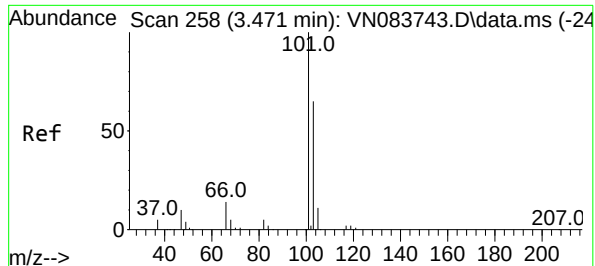
Tgt Ion: 64 Resp: 14313

Ion Ratio Lower Upper

64 100

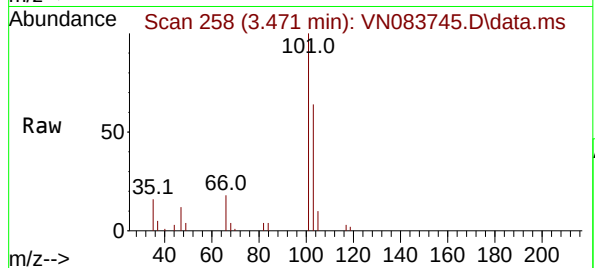
66 34.9 23.9 35.9





#7
Trichlorofluoromethane
Concen: 8.847 ug/l
RT: 3.471 min Scan# 258
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

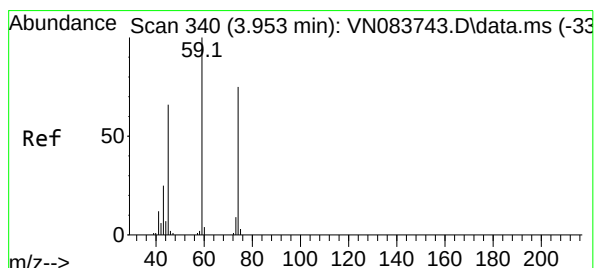
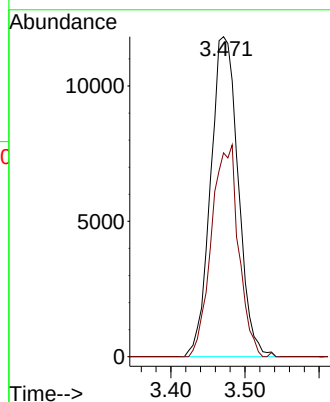
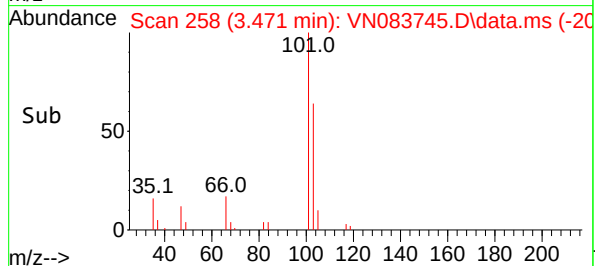
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010



Tgt Ion:101 Resp: 3053
Ion Ratio Lower Upper
101 100
103 63.7 51.4 77.0

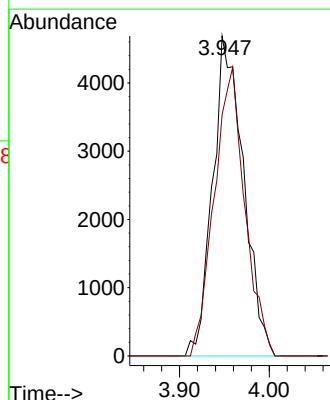
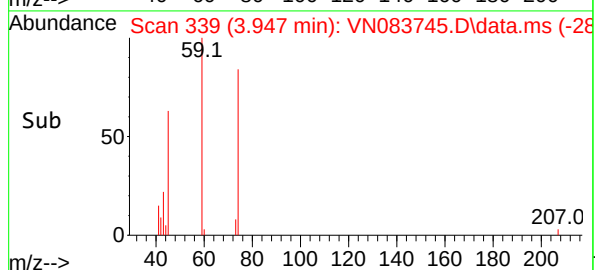
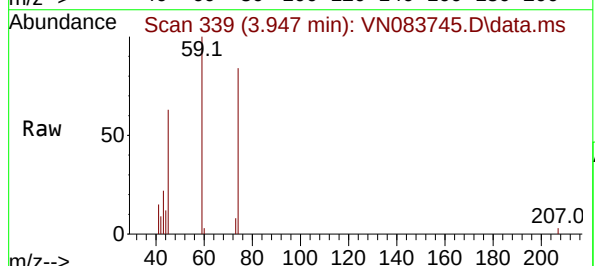
Manual Integrations
APPROVED

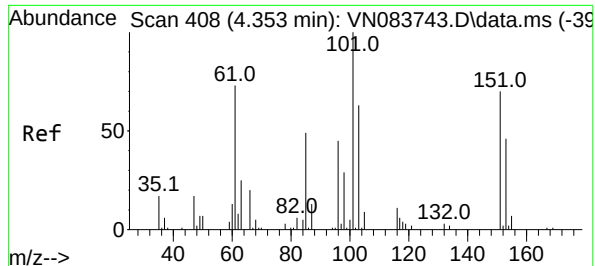
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#8
Diethyl Ether
Concen: 9.660 ug/l
RT: 3.947 min Scan# 339
Delta R.T. -0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 74 Resp: 11175
Ion Ratio Lower Upper
74 100
45 89.6 46.7 140.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 9.122 ug/l

RT: 4.365 min Scan# 410

Delta R.T. 0.012 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

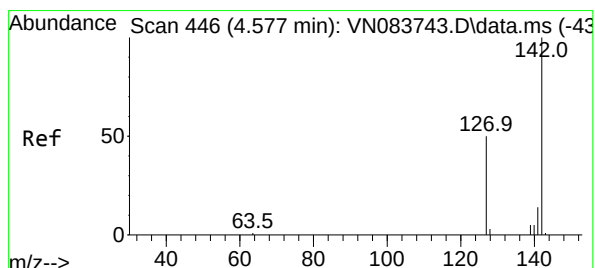
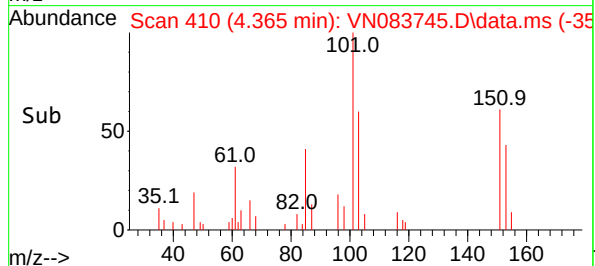
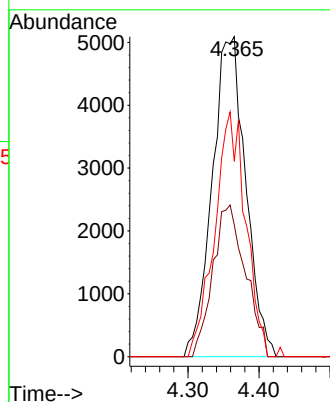
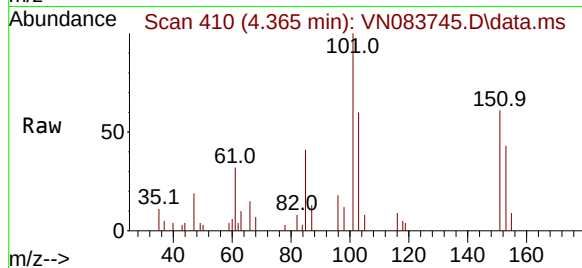
VSTDIC010

Tgt Ion:	101	Resp:	1668
Ion	Ratio	Lower	Upper
101	100		
85	46.2	36.2	54.4
151	70.7	57.7	86.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#10

Methyl Iodide

Concen: 8.913 ug/l

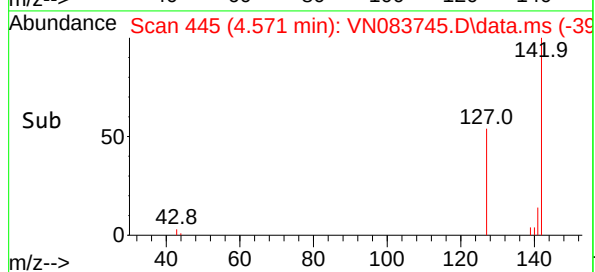
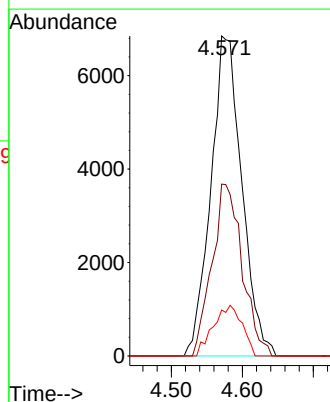
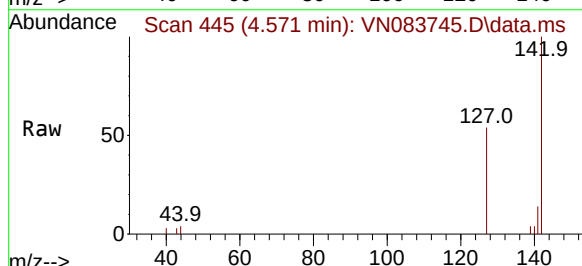
RT: 4.571 min Scan# 445

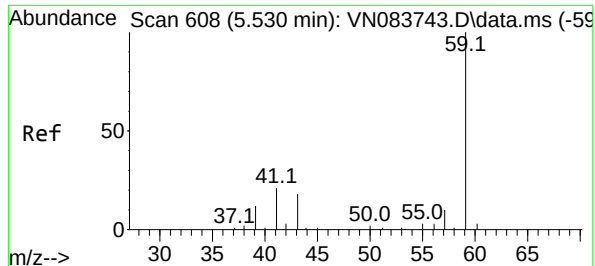
Delta R.T. -0.006 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Tgt Ion:	142	Resp:	20736
Ion	Ratio	Lower	Upper
142	100		
127	53.7	37.5	56.3
141	14.4	11.0	16.4





#11

Tert butyl alcohol

Concen: 44.148 ug/l

RT: 5.536 min Scan# 608

Delta R.T. 0.006 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 59 Resp: 14238

Ion Ratio Lower Upper

59 100

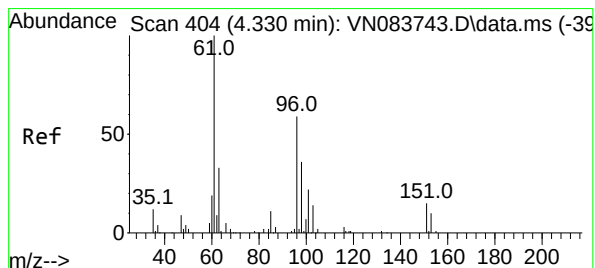
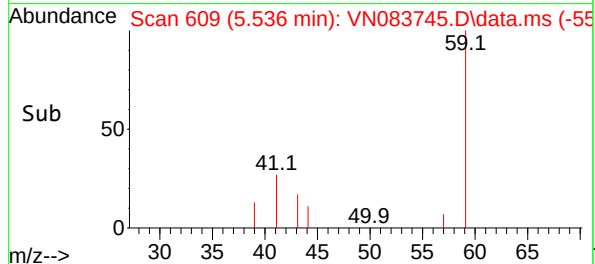
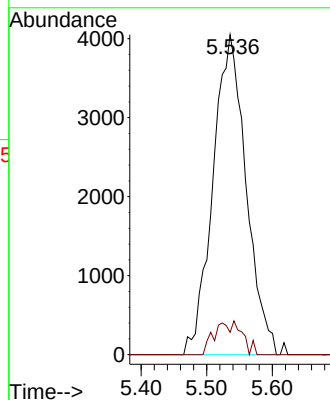
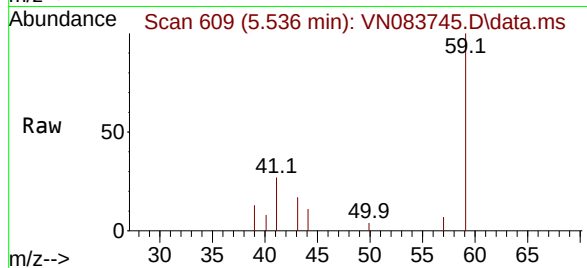
57 5.1 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#12

1,1-Dichloroethene

Concen: 8.802 ug/l

RT: 4.324 min Scan# 403

Delta R.T. -0.006 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

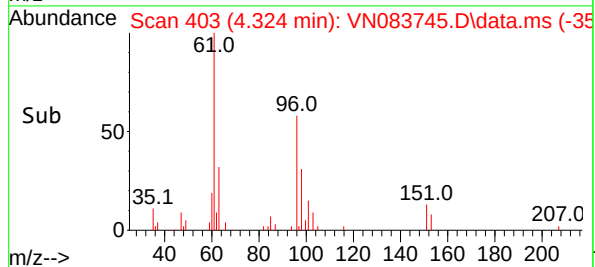
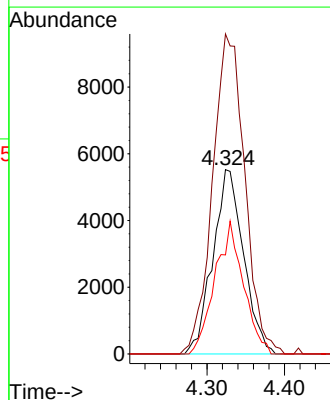
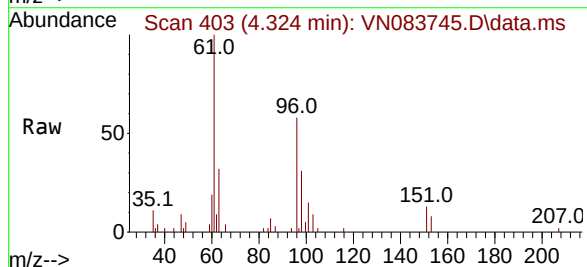
Tgt Ion: 96 Resp: 15206

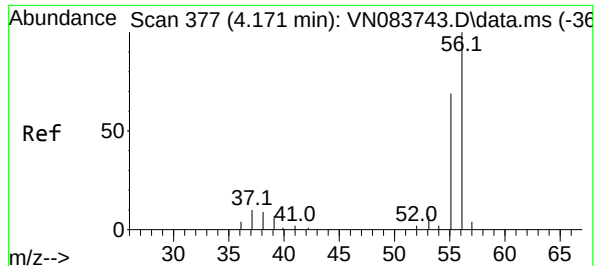
Ion Ratio Lower Upper

96 100

61 173.5 143.4 215.0

98 53.7 52.7 79.1





#13

Acrolein

Concen: 50.851 ug/l

RT: 4.165 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 56 Resp: 1618

Ion Ratio Lower Upper

56 100

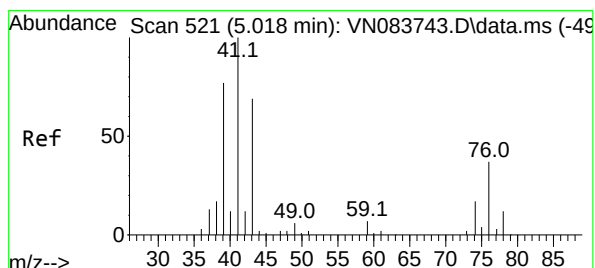
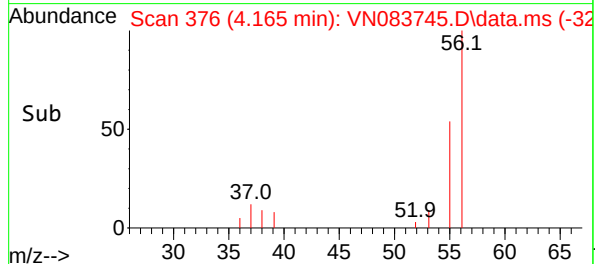
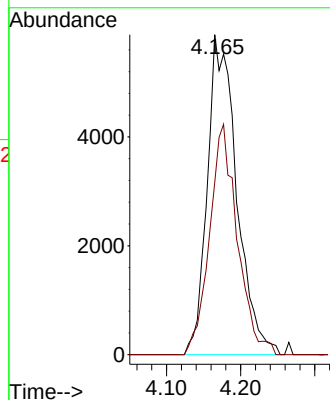
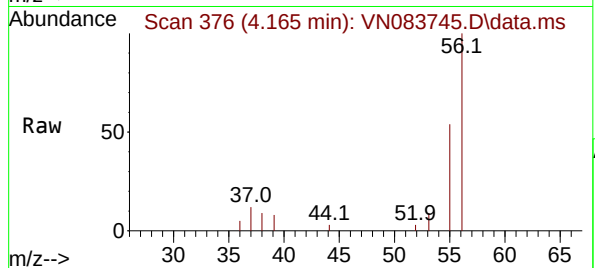
55 68.2 58.2 87.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#14

Allyl chloride

Concen: 9.400 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

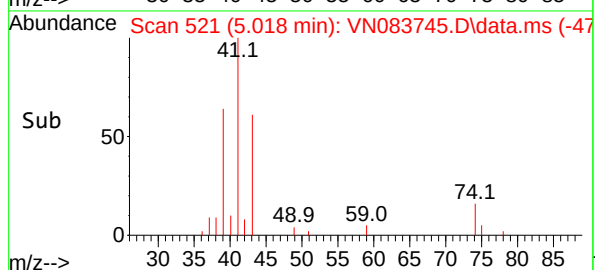
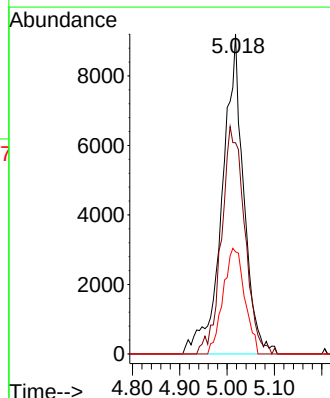
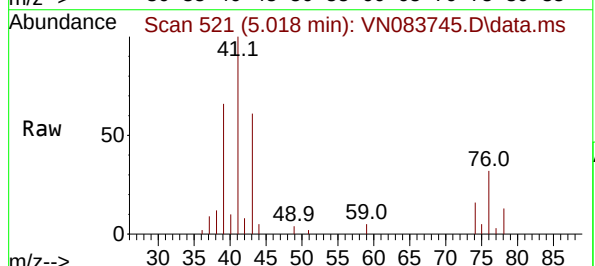
Tgt Ion: 41 Resp: 28937

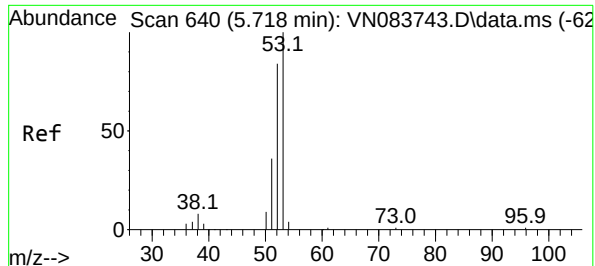
Ion Ratio Lower Upper

41 100

39 76.9 59.3 88.9

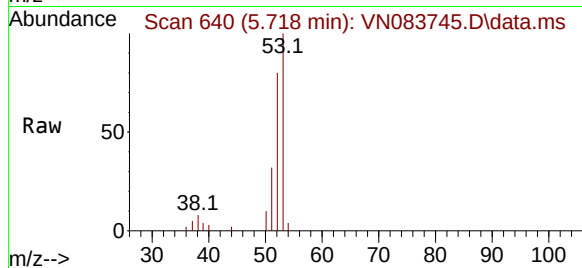
76 33.2 27.7 41.5





#15
Acrylonitrile
Concen: 44.329 ug/l
RT: 5.718 min Scan# 640
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

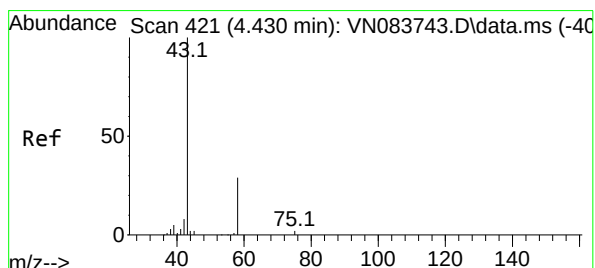
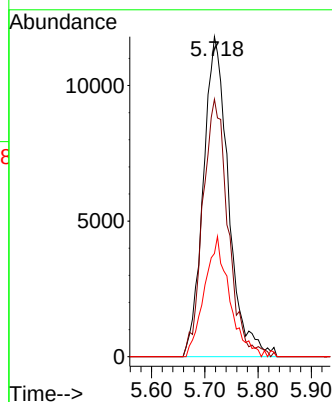
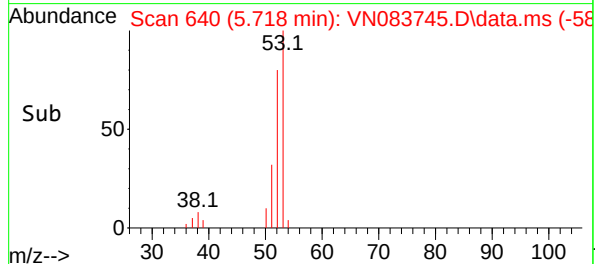
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010



Tgt Ion: 53 Resp: 38879
Ion Ratio Lower Upper
53 100
52 80.7 66.1 99.1
51 37.1 29.6 44.4

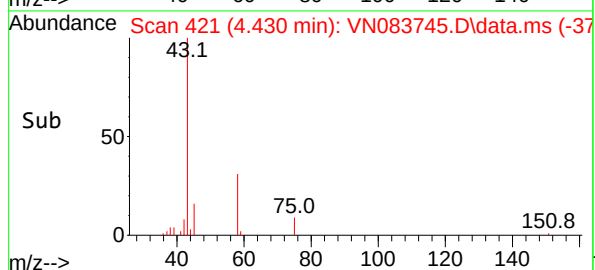
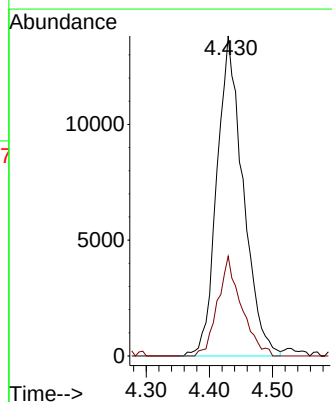
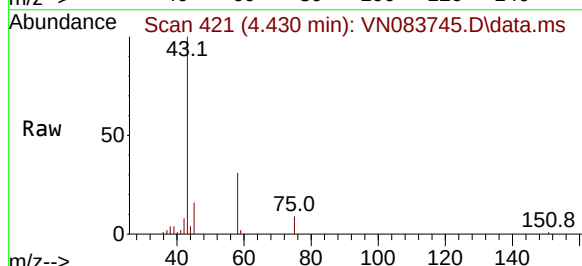
Manual Integrations
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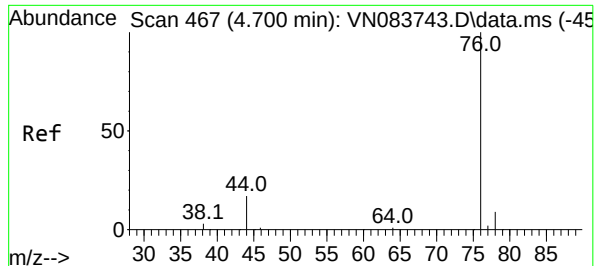
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#16
Acetone
Concen: 41.335 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 43 Resp: 39908
Ion Ratio Lower Upper
43 100
58 31.1 23.7 35.5





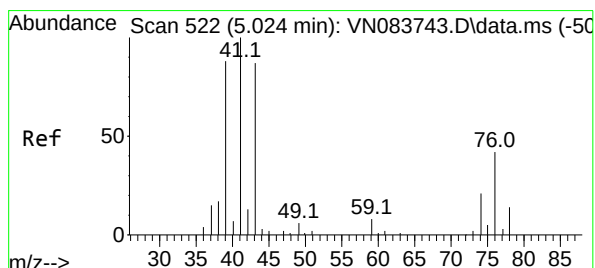
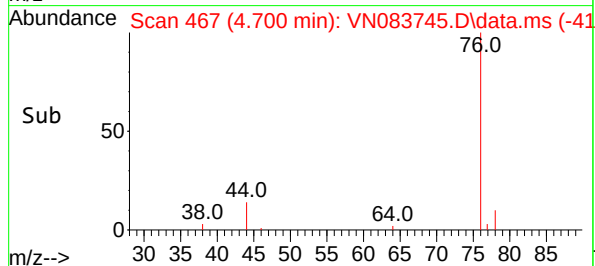
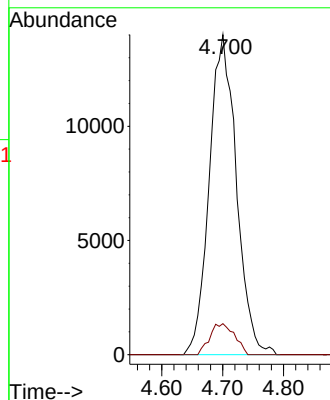
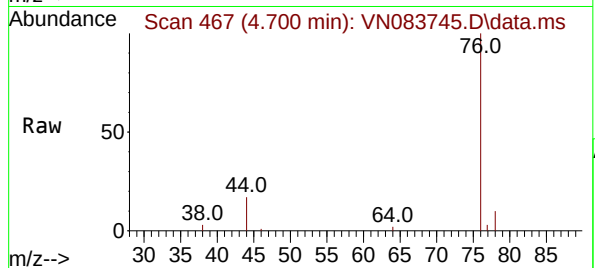
#17
Carbon Disulfide
Concen: 8.973 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 4336
Ion Ratio Lower Upper
76 100
78 9.7 7.1 10.7

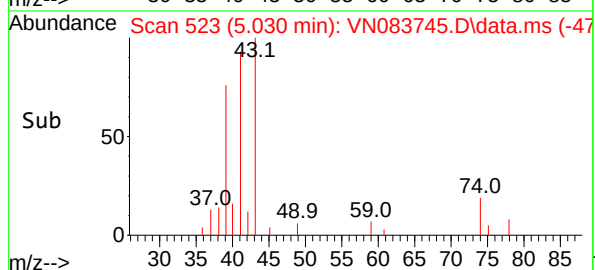
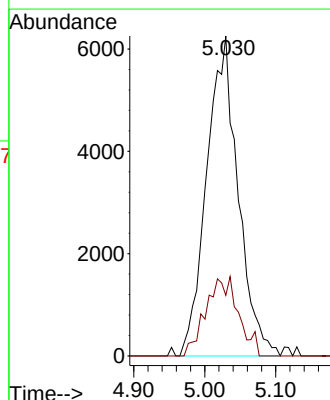
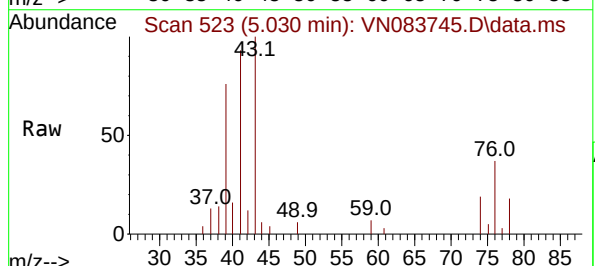
Manual Integrations
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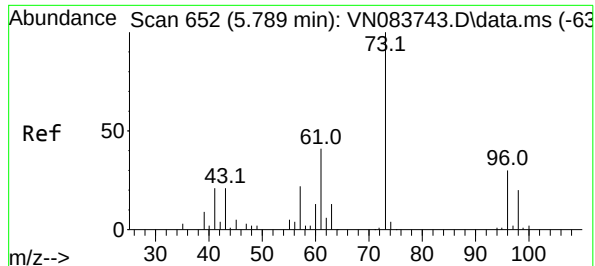
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#18
Methyl Acetate
Concen: 7.983 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 43 Resp: 19195
Ion Ratio Lower Upper
43 100
74 25.6 19.0 28.4





#19

Methyl tert-butyl Ether

Concen: 9.035 ug/l

RT: 5.794 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 73 Resp: 5648

Ion Ratio Lower Upper

73 100

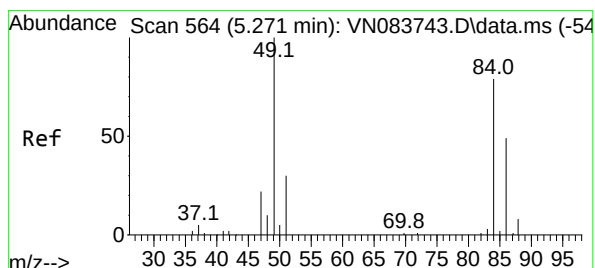
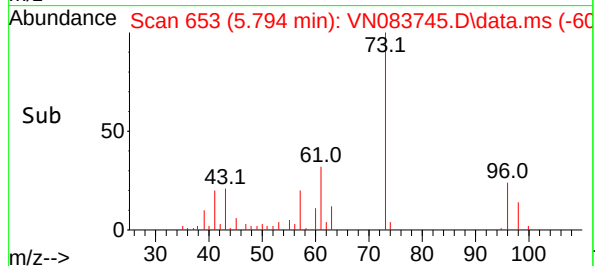
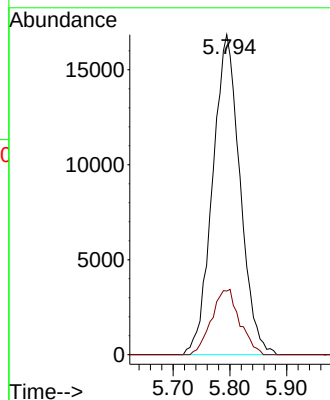
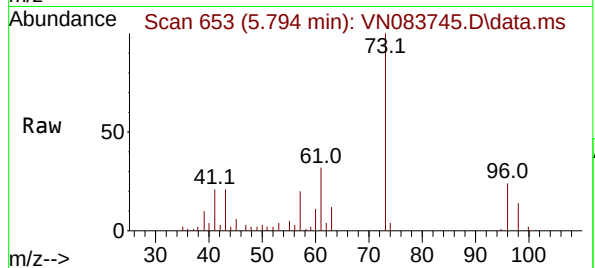
57 19.9 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#20

Methylene Chloride

Concen: 9.167 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.006 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Tgt Ion: 84 Resp: 18112

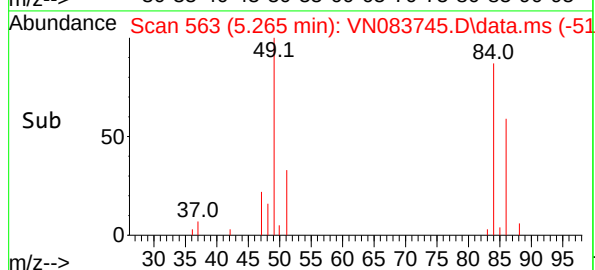
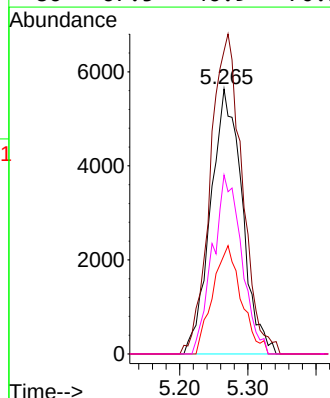
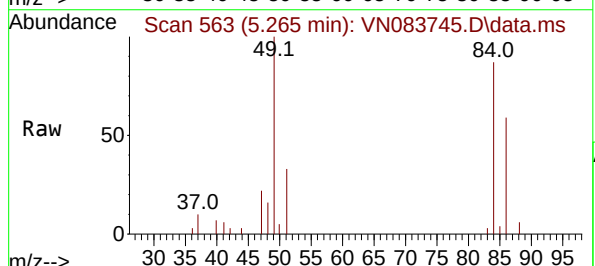
Ion Ratio Lower Upper

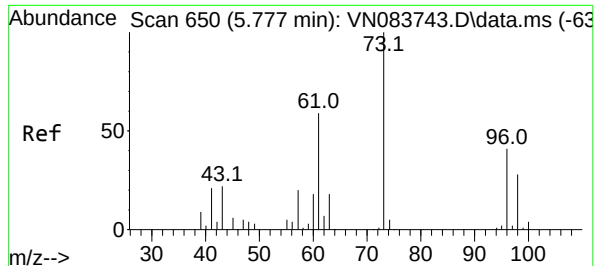
84 100

49 114.3 93.4 140.0

51 37.3 29.2 43.8

86 67.5 46.9 70.3





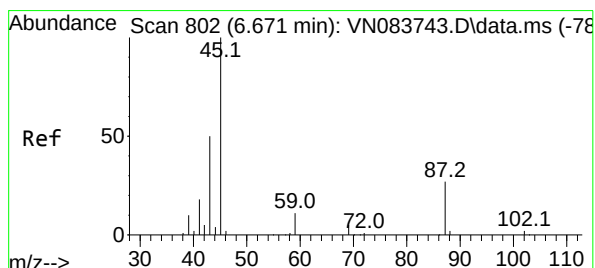
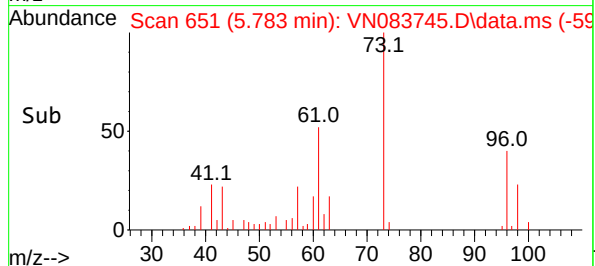
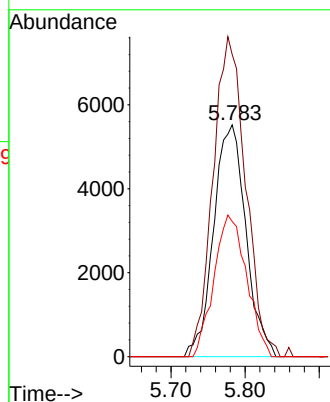
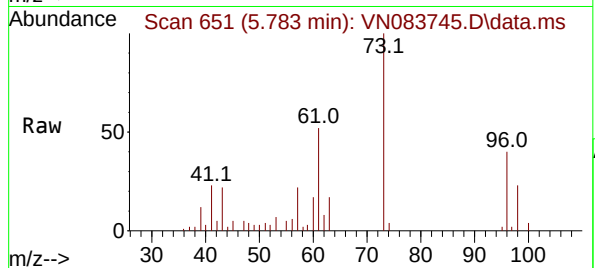
#21
trans-1,2-Dichloroethene
Concen: 9.009 ug/l
RT: 5.783 min Scan# 610
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tgt Ion: 96 Resp: 16680
Ion Ratio Lower Upper
96 100
61 130.2 106.0 159.0
98 58.3 52.2 78.2

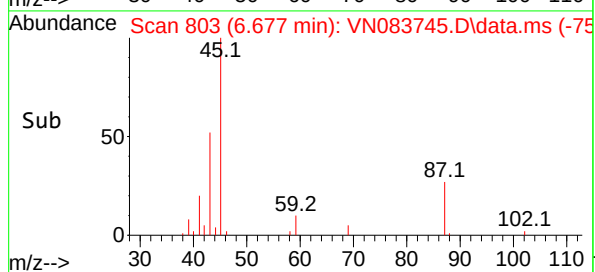
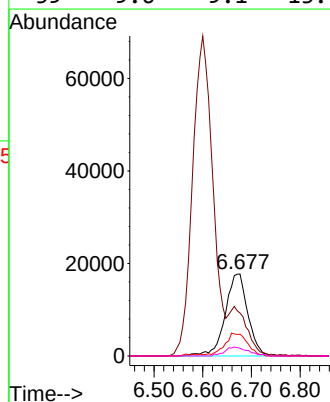
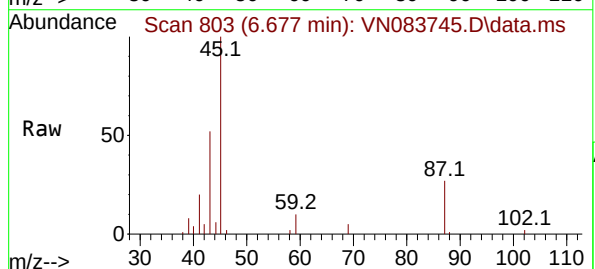
Manual Integrations
APPROVED

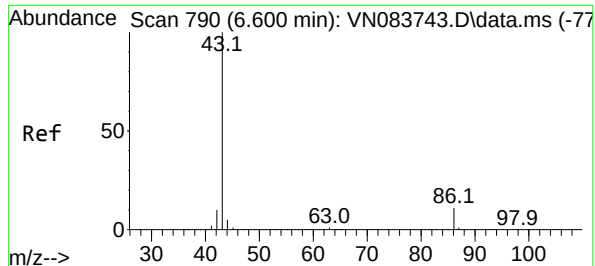
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#22
Diisopropyl ether
Concen: 9.015 ug/l
RT: 6.677 min Scan# 803
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 45 Resp: 57127
Ion Ratio Lower Upper
45 100
43 50.5 43.4 65.0
87 26.6 22.6 33.8
59 9.6 9.1 13.7





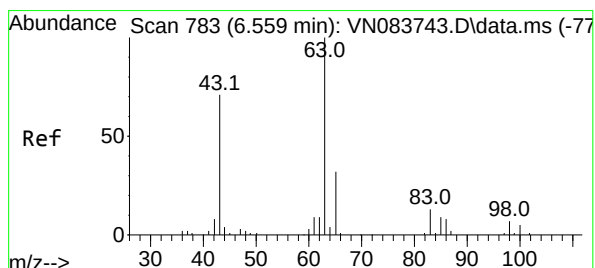
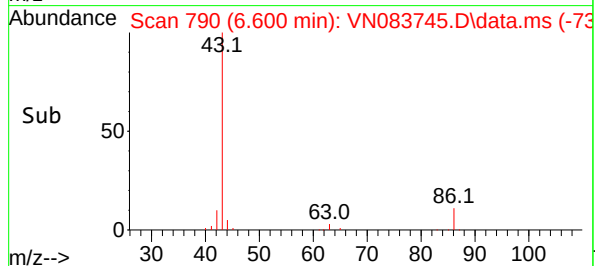
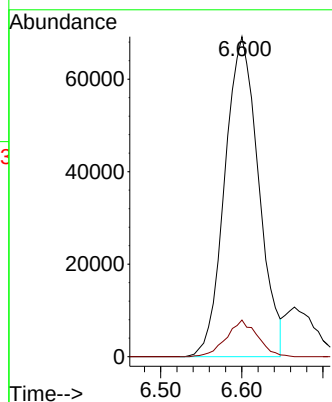
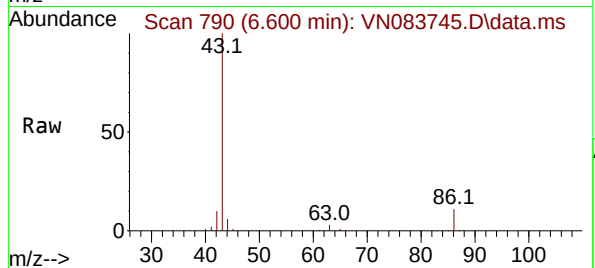
#23
Vinyl Acetate
Concen: 43.152 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 200248
Ion Ratio Lower Upper
43 100
86 11.5 8.7 13.1

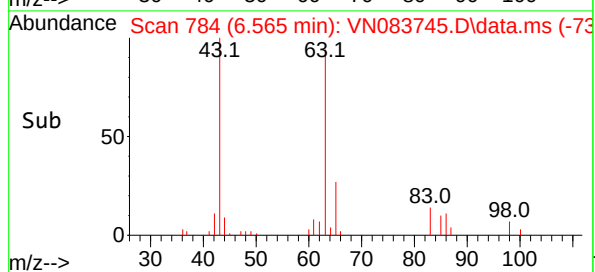
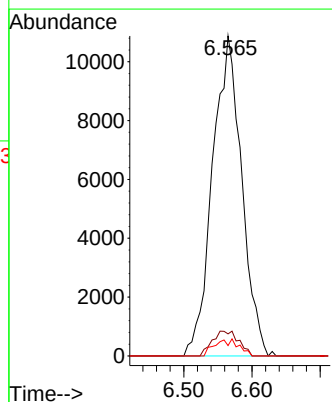
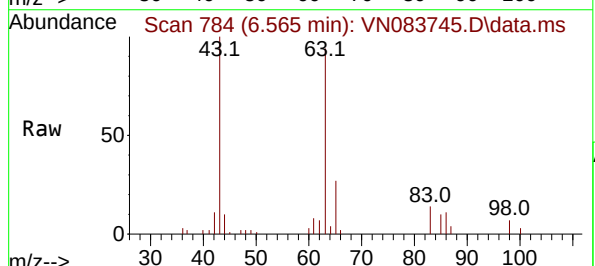
Manual Integrations
APPROVED

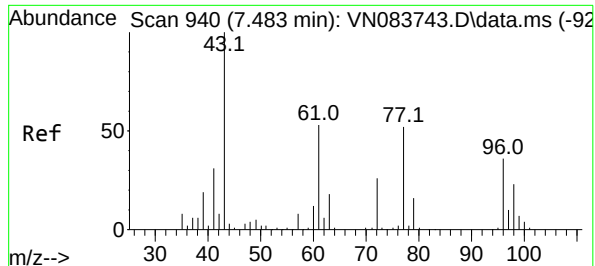
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#24
1,1-Dichloroethane
Concen: 8.874 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 63 Resp: 32397
Ion Ratio Lower Upper
63 100
98 6.9 3.5 10.4
100 3.2 2.5 7.5





#25

2-Butanone

Concen: 42.331 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 53710

Ion Ratio Lower Upper

43 100

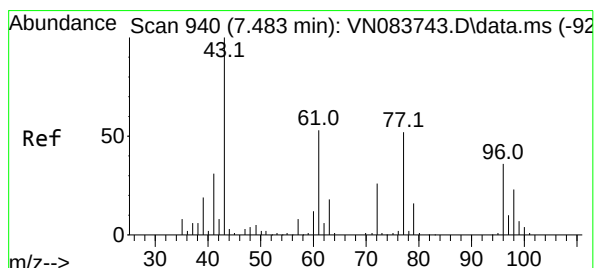
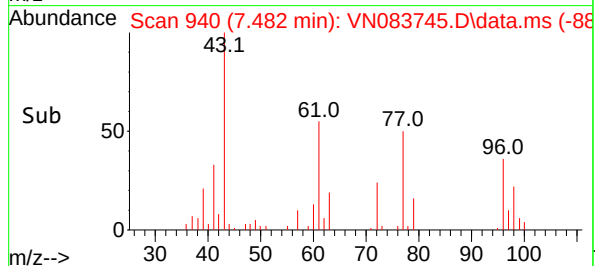
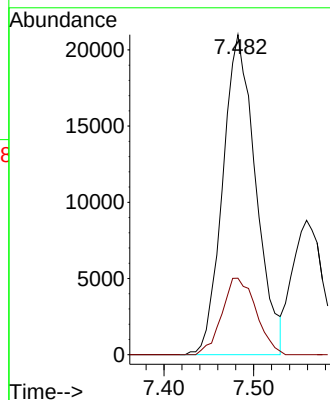
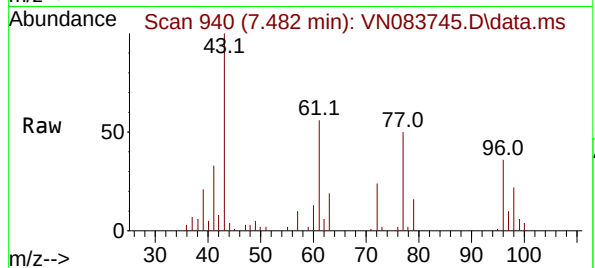
72 23.9 20.8 31.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#26

2,2-Dichloropropane

Concen: 8.770 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN083745.D

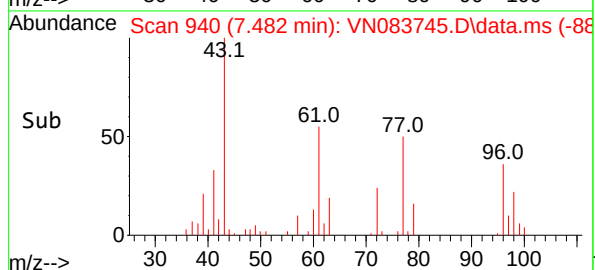
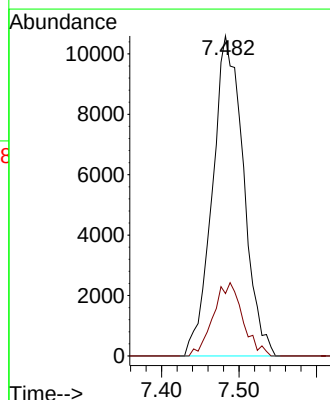
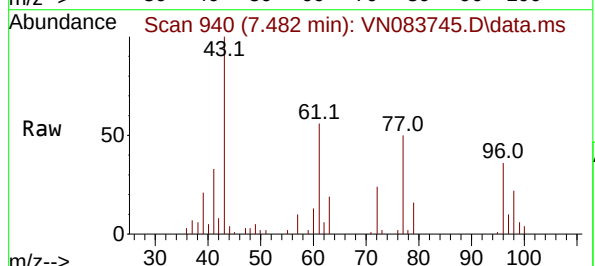
Acq: 10 Sep 2024 10:20

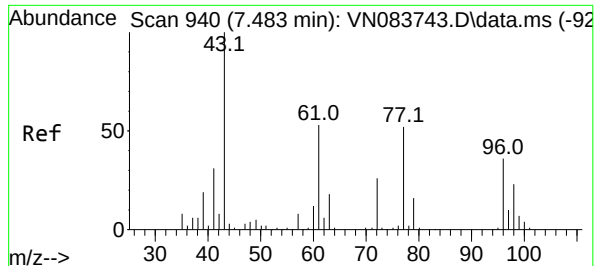
Tgt Ion: 77 Resp: 29484

Ion Ratio Lower Upper

77 100

97 21.7 10.2 30.4





#27

cis-1,2-Dichloroethene

Concen: 9.019 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 96 Resp: 1982

Ion Ratio Lower Upper

96 100

61 157.9 0.0 306.2

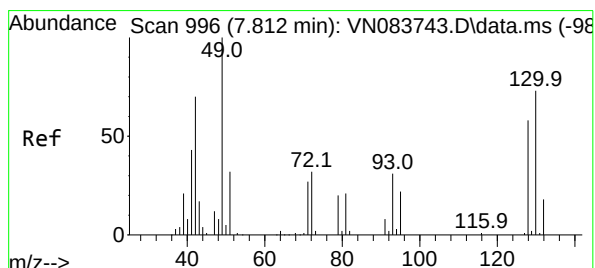
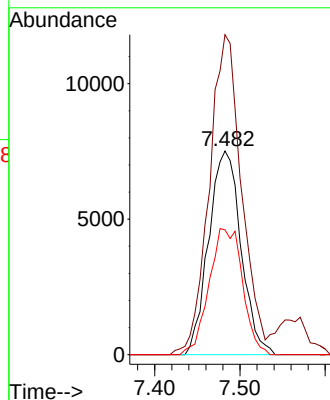
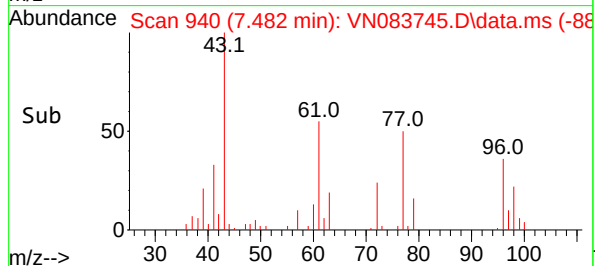
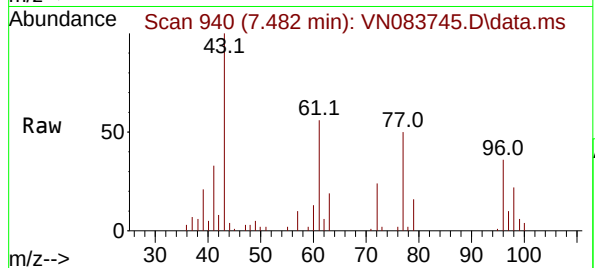
98 64.1 0.0 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#28

Bromochloromethane

Concen: 9.852 ug/l

RT: 7.818 min Scan# 997

Delta R.T. 0.006 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

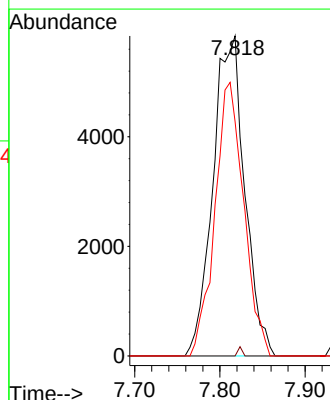
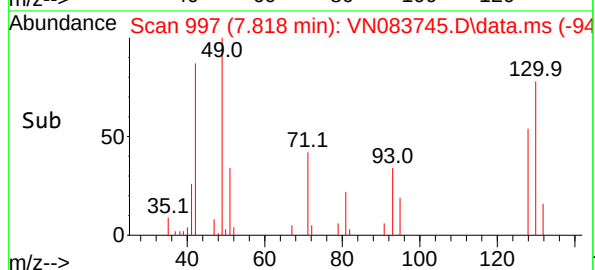
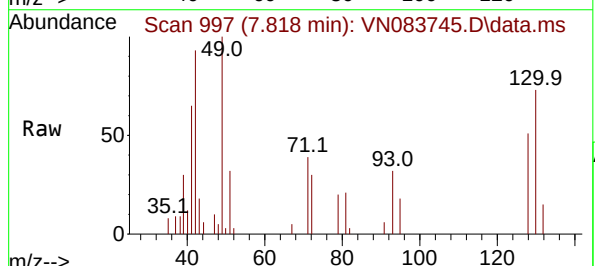
Tgt Ion: 49 Resp: 15146

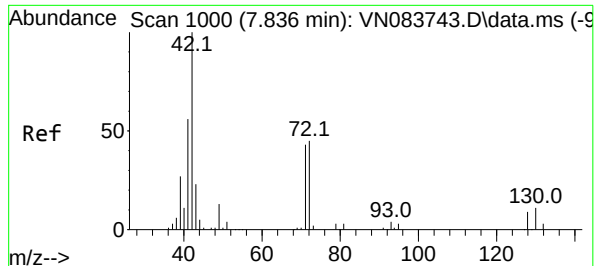
Ion Ratio Lower Upper

49 100

129 0.4 0.0 3.4

130 77.7 60.2 90.2





#29

Tetrahydrofuran

Concen: 44.830 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.006 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

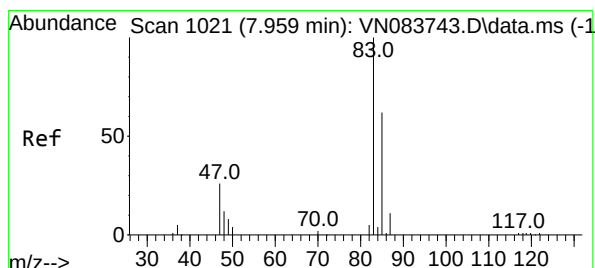
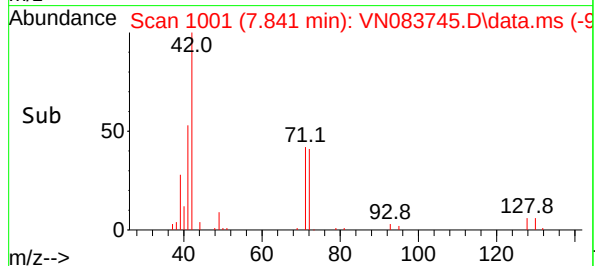
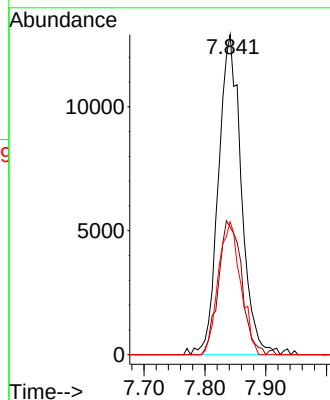
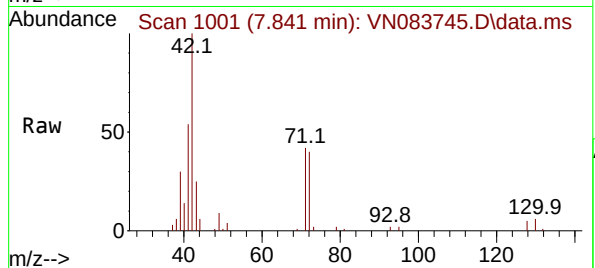
VSTDIC010

Tgt Ion: 42	Resp: 3363
Ion Ratio	Lower Upper
42	100
72	42.5 35.9 53.9
71	40.6 33.9 50.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#30

Chloroform

Concen: 8.910 ug/l

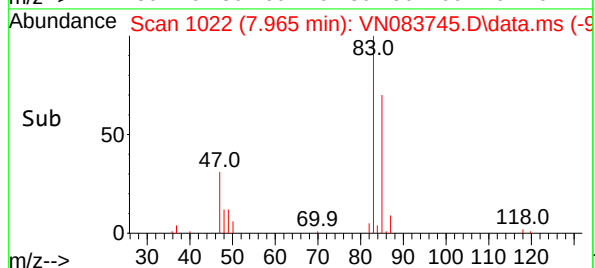
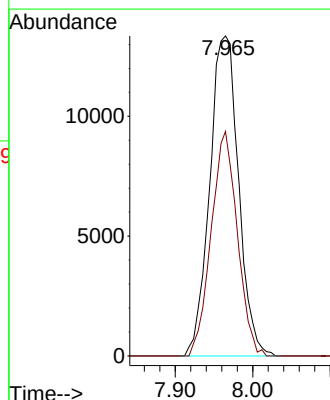
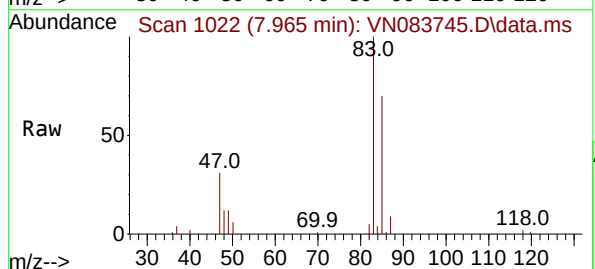
RT: 7.965 min Scan# 1022

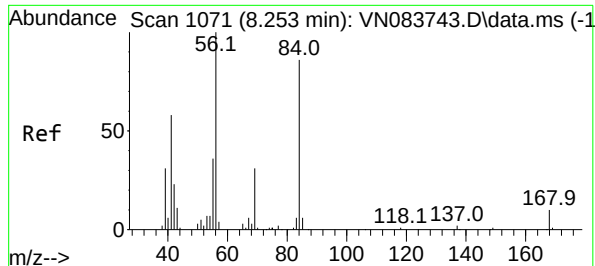
Delta R.T. 0.006 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

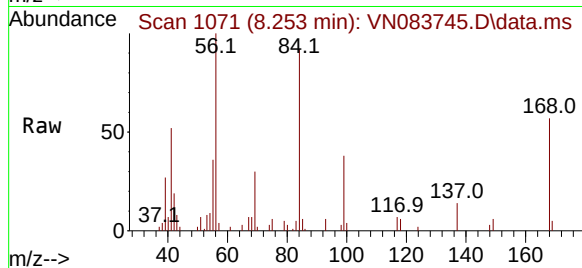
Tgt Ion: 83	Resp: 34532
Ion Ratio	Lower Upper
83	100
85	70.2 52.8 79.2





#31
Cyclohexane
Concen: 9.330 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

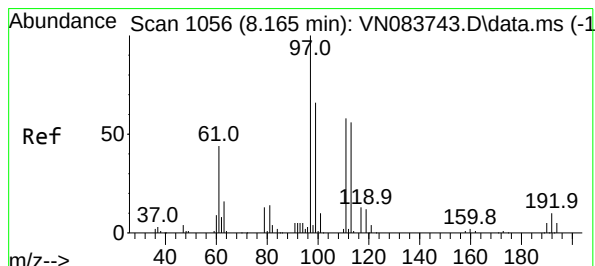
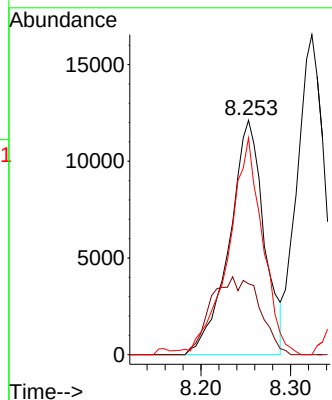
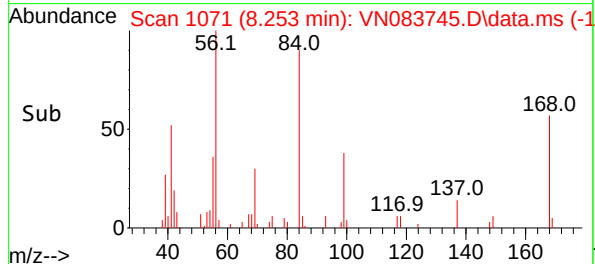
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010



Tgt Ion: 56 Resp: 32470
Ion Ratio Lower Upper
56 100
69 30.2 26.9 40.3
84 90.6 69.2 103.8

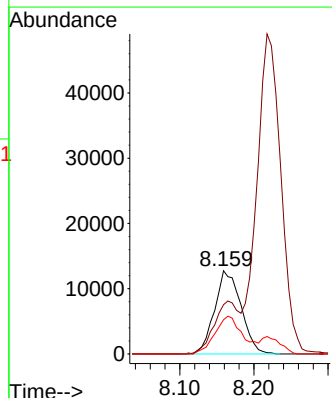
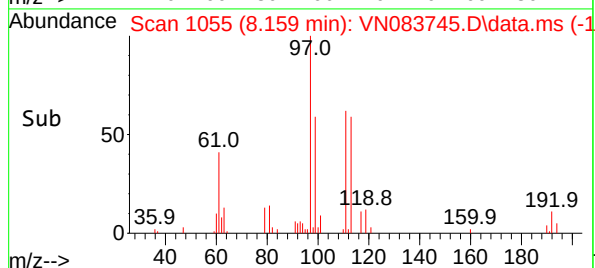
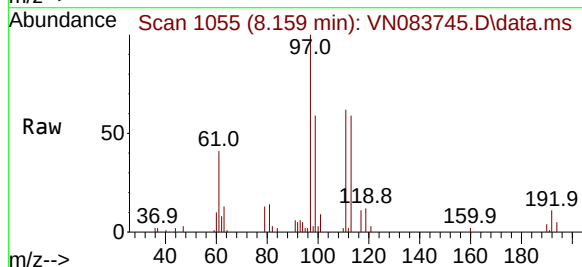
Manual Integrations
APPROVED

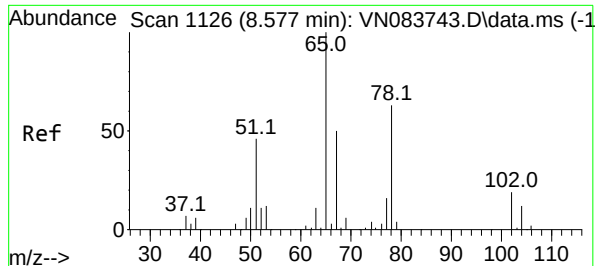
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#32
1,1,1-Trichloroethane
Concen: 8.868 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 97 Resp: 31603
Ion Ratio Lower Upper
97 100
99 60.2 52.3 78.5
61 48.2 38.2 57.2





#33

1,2-Dichloroethane-d4

Concen: 11.218 ug/l

RT: 8.571 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 65 Resp: 27018

Ion Ratio Lower Upper

65 100

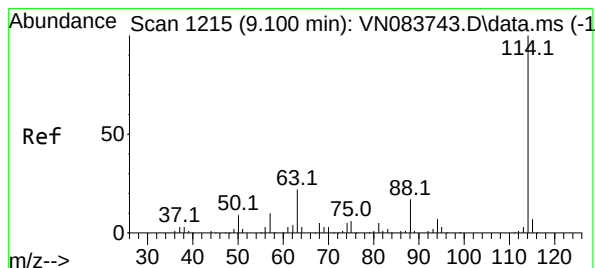
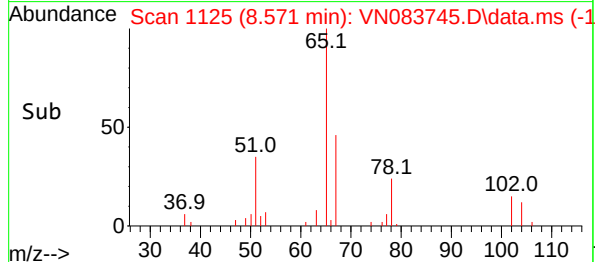
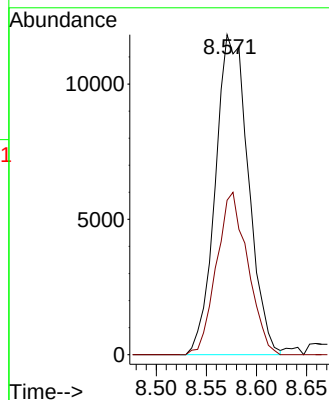
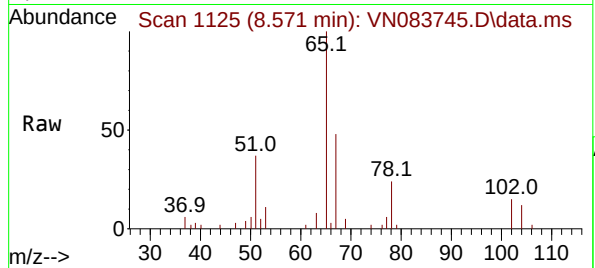
67 48.2 0.0 100.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

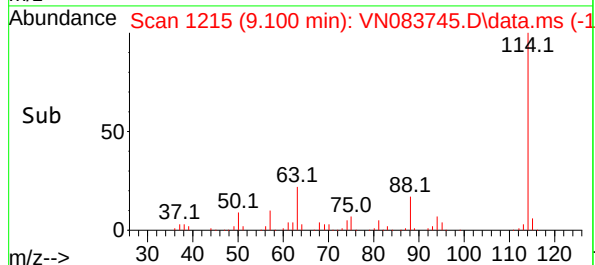
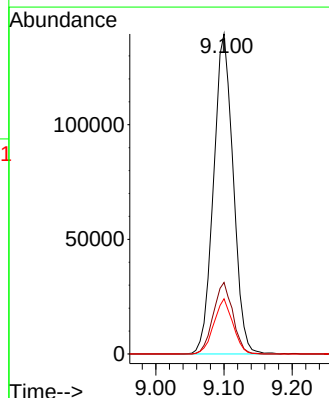
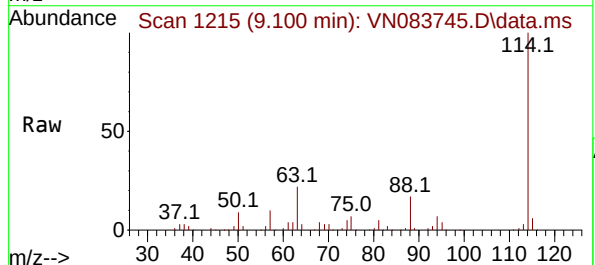
Tgt Ion:114 Resp: 280181

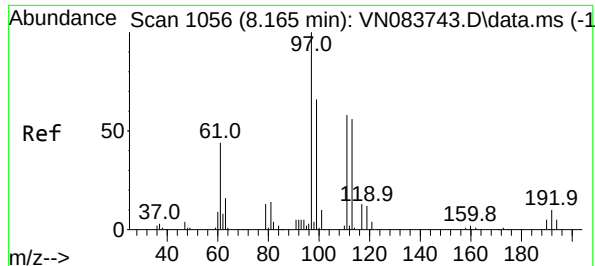
Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.4

88 17.3 0.0 32.6





#35

Dibromofluoromethane

Concen: 10.634 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

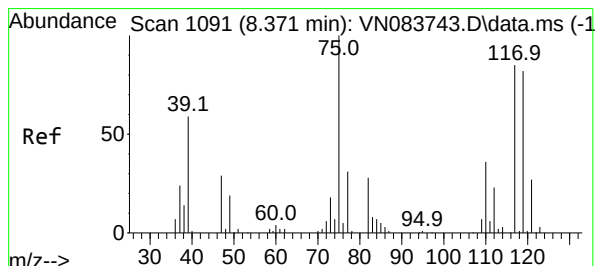
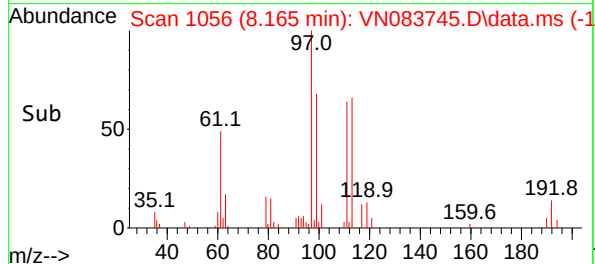
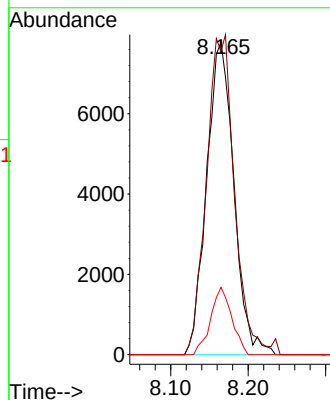
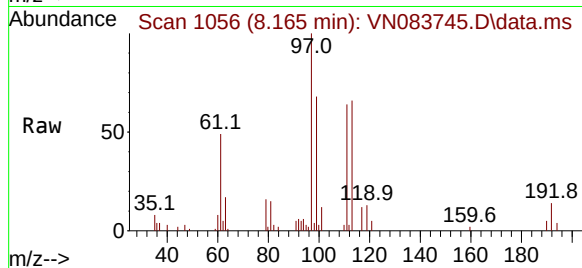
Tgt Ion:	113	Resp:	19074
Ion	Ratio	Lower	Upper
113	100		
111	105.2	82.6	124.0
192	16.7	14.3	21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#36

1,1-Dichloropropene

Concen: 8.637 ug/l

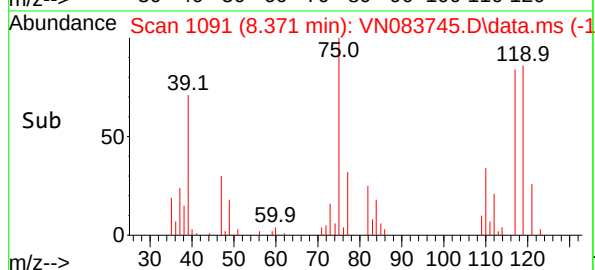
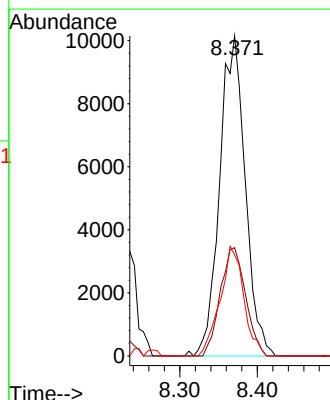
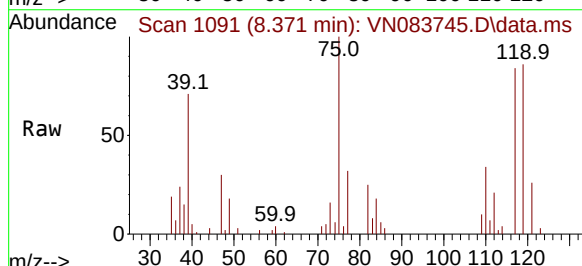
RT: 8.371 min Scan# 1091

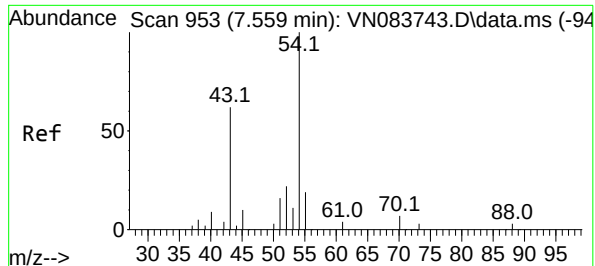
Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Tgt Ion:	75	Resp:	23317
Ion	Ratio	Lower	Upper
75	100		
110	33.5	16.7	50.1
77	31.7	25.2	37.8





#37

Ethyl Acetate

Concen: 8.998 ug/l

RT: 7.559 min Scan# 953

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

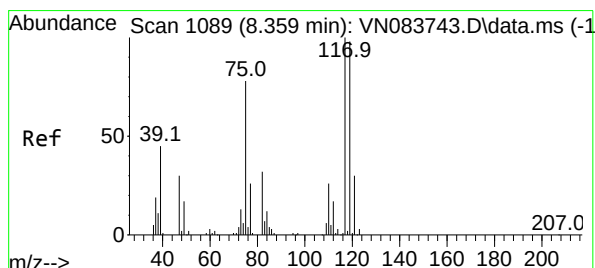
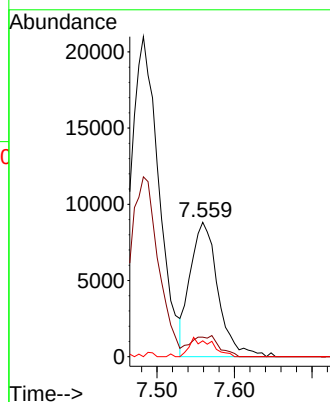
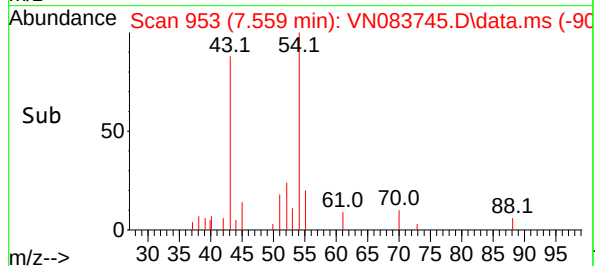
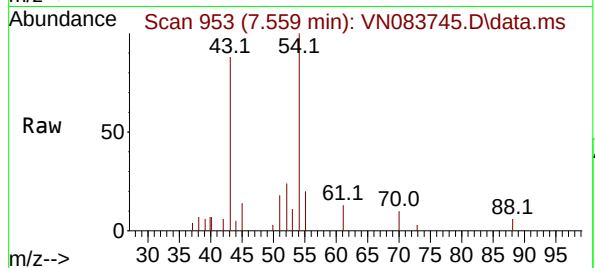
Tgt Ion:	43	Resp:	22049
Ion	Ratio	Lower	Upper
43	100		
61	15.0	11.1	16.7
70	0.0	8.8	13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#38

Carbon Tetrachloride

Concen: 8.692 ug/l

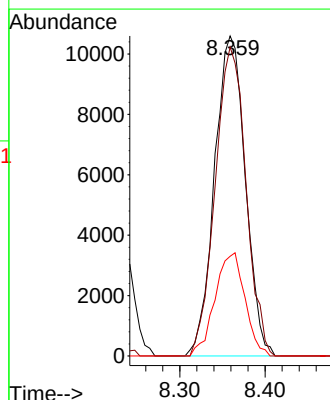
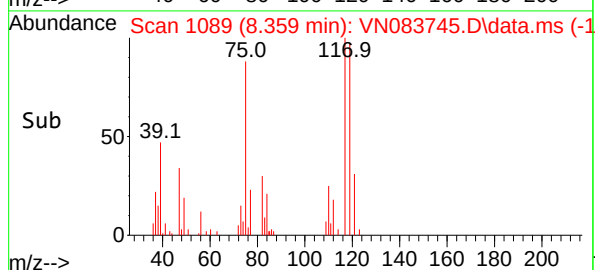
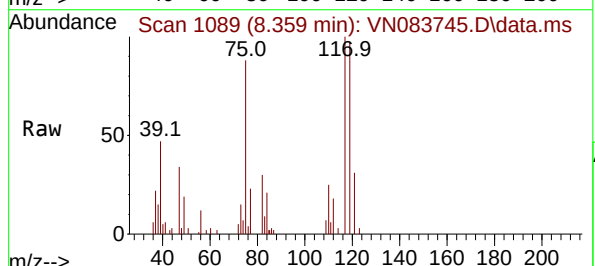
RT: 8.359 min Scan# 1089

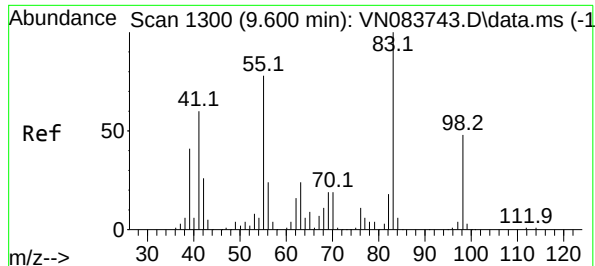
Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Tgt Ion:	117	Resp:	26621
Ion	Ratio	Lower	Upper
117	100		
119	96.6	76.1	114.1
121	31.1	24.1	36.1





#39

Methylcyclohexane

Concen: 8.693 ug/l

RT: 9.594 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

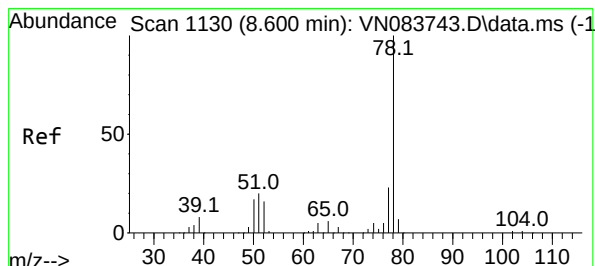
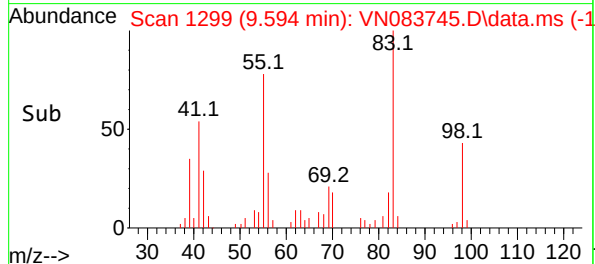
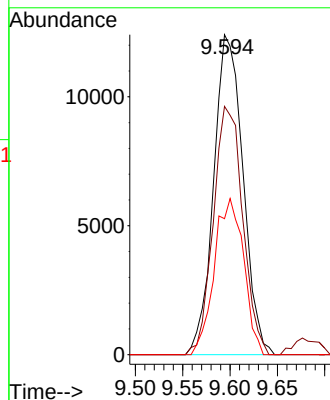
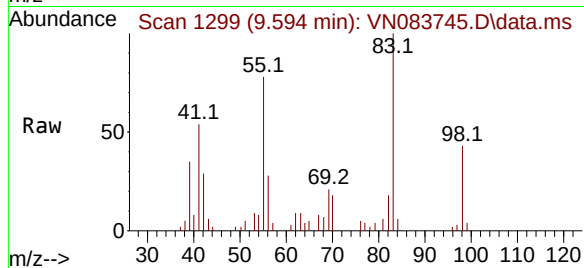
Tgt Ion: 83	Resp: 26714
Ion Ratio	Lower Upper
83	100
55	77.6 62.2 93.4
98	42.5 37.6 56.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#40

Benzene

Concen: 8.856 ug/l

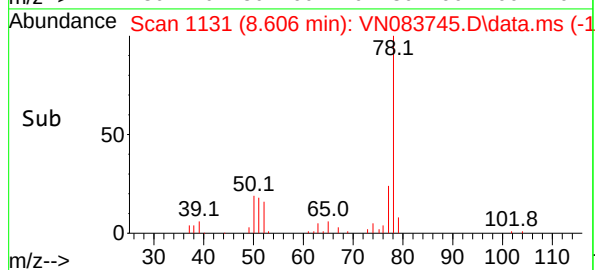
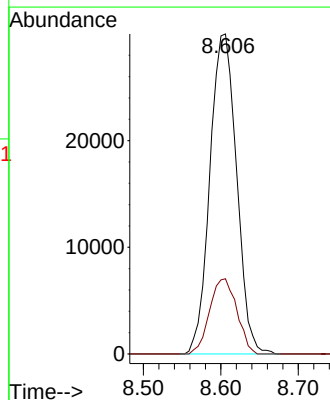
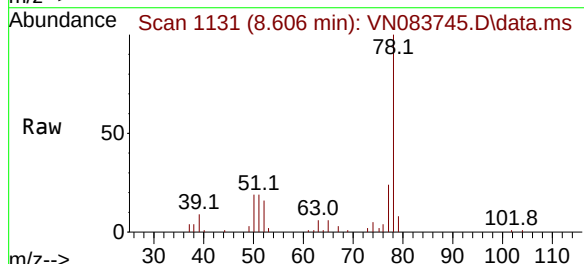
RT: 8.606 min Scan# 1131

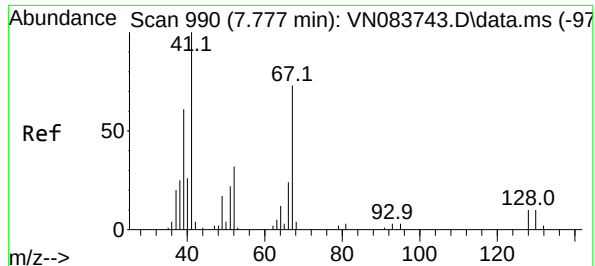
Delta R.T. 0.006 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

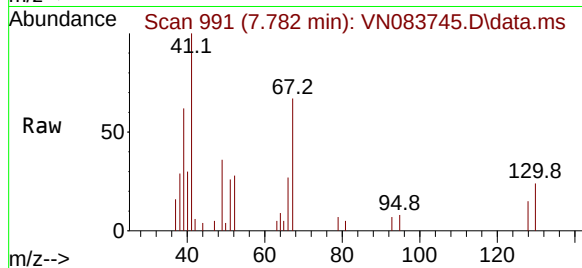
Tgt Ion: 78	Resp: 71965
Ion Ratio	Lower Upper
78	100
77	23.5 19.0 28.6





#41
Methacrylonitrile
Concen: 8.168 ug/l
RT: 7.782 min Scan# 991
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

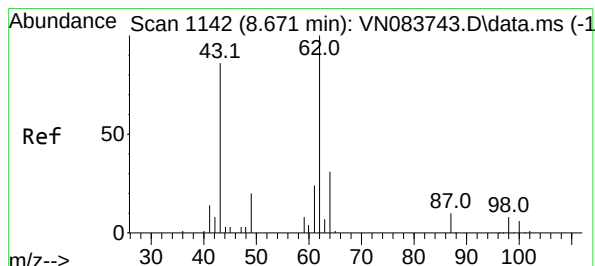
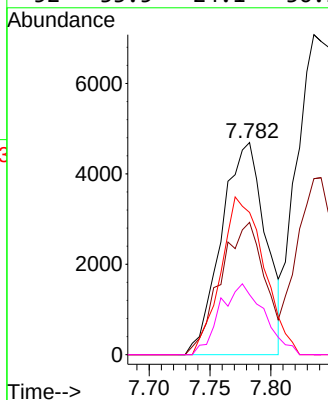
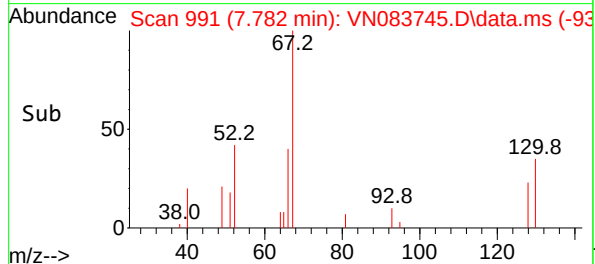
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010



Tgt Ion: 41 Resp: 11838
Ion Ratio Lower Upper
41 100
39 62.7 45.4 68.2
67 72.5 55.9 83.9
52 33.5 24.1 36.1

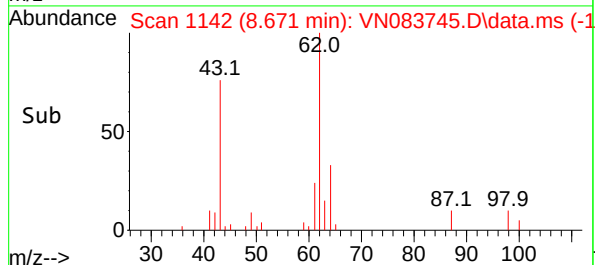
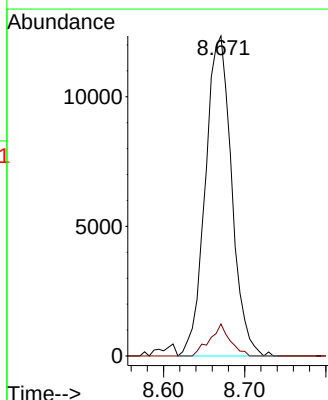
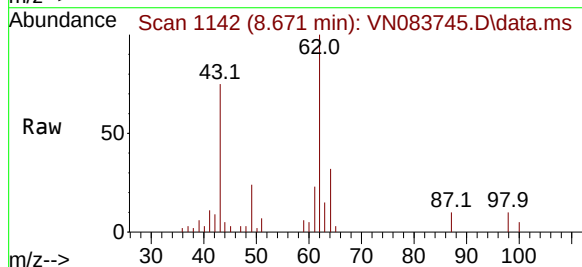
Manual Integrations
APPROVED

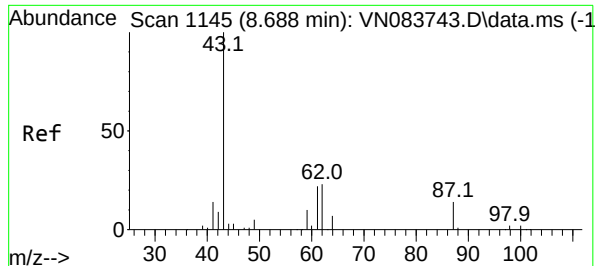
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#42
1,2-Dichloroethane
Concen: 9.144 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 62 Resp: 27764
Ion Ratio Lower Upper
62 100
98 7.7 0.0 16.6





#43

Isopropyl Acetate

Concen: 8.677 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

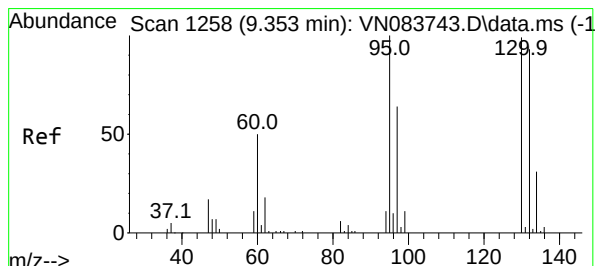
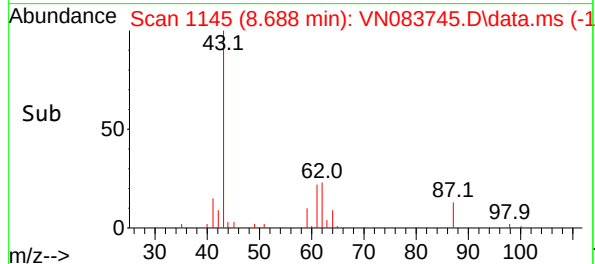
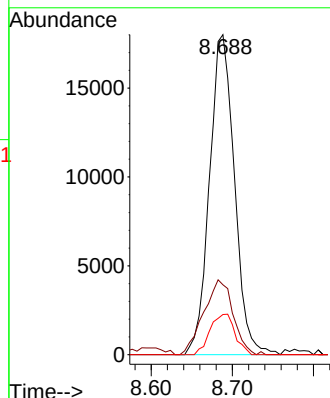
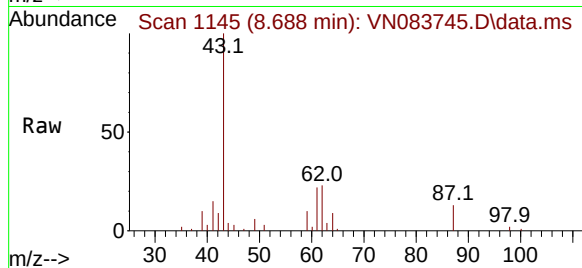
Tgt Ion: 43	Resp: 3853
Ion Ratio	Lower Upper
43 100	
61 27.5	19.4 29.0
87 12.6	9.8 14.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#44

Trichloroethene

Concen: 8.919 ug/l

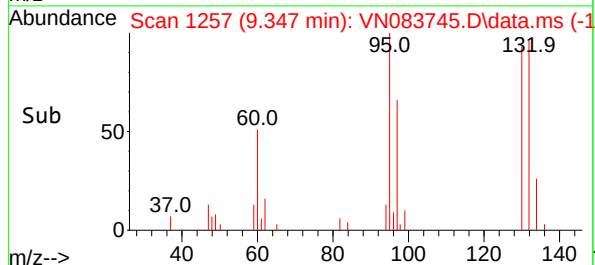
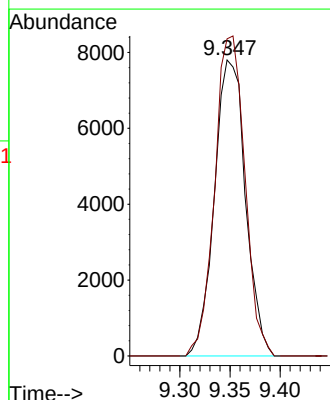
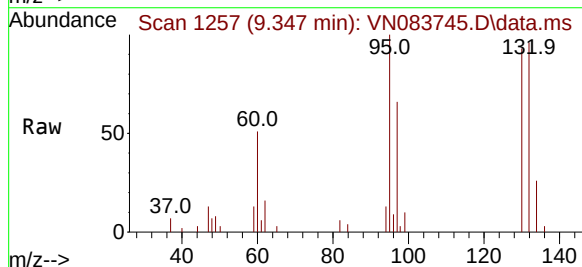
RT: 9.347 min Scan# 1257

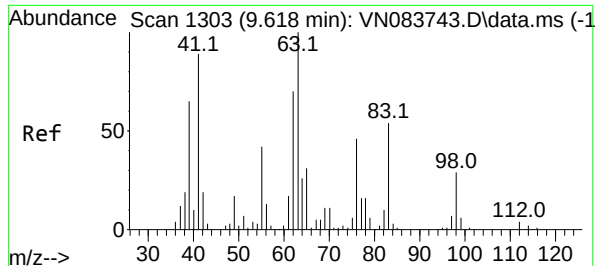
Delta R.T. -0.006 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Tgt Ion:130	Resp: 16783
Ion Ratio	Lower Upper
130 100	
95 107.1	0.0 200.4





#45

1,2-Dichloropropane

Concen: 8.655 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 63 Resp: 1698

Ion Ratio Lower Upper

63 100

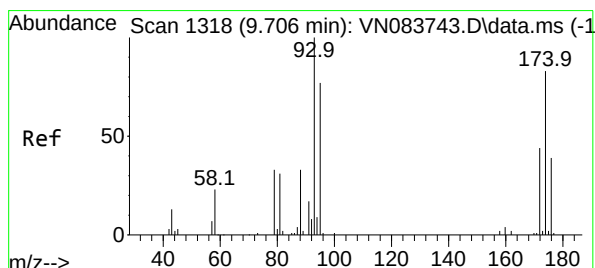
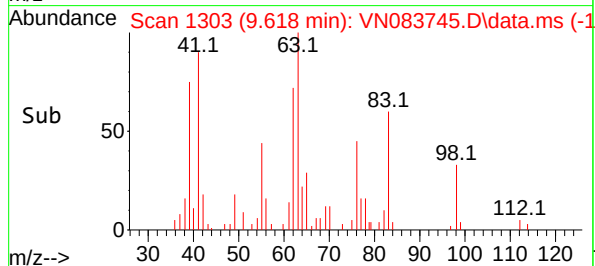
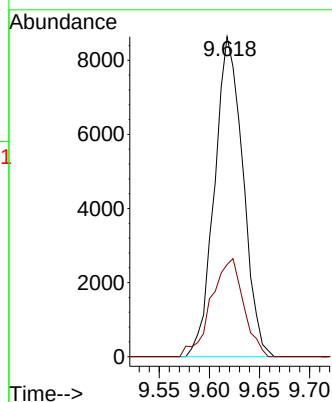
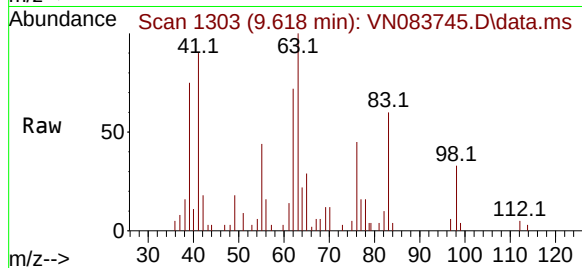
65 28.8 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#46

Dibromomethane

Concen: 8.987 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

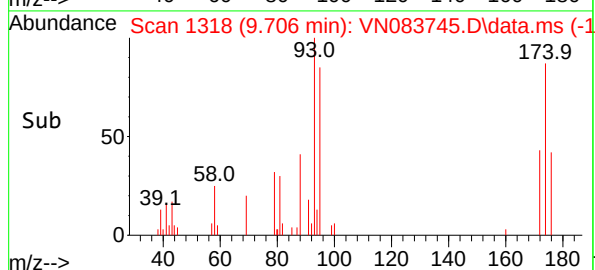
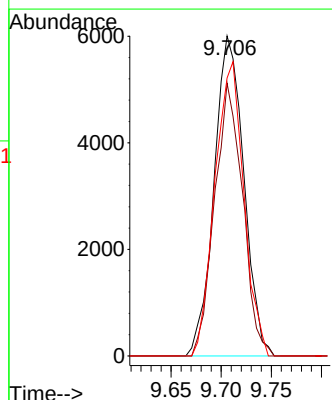
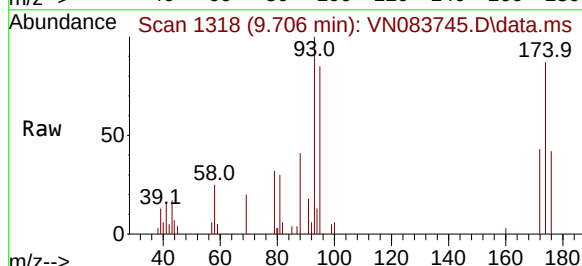
Tgt Ion: 93 Resp: 12363

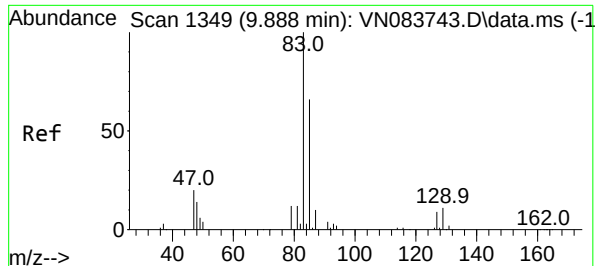
Ion Ratio Lower Upper

93 100

95 80.6 65.3 97.9

174 89.7 71.0 106.4





#47

Bromodichloromethane

Concen: 8.674 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

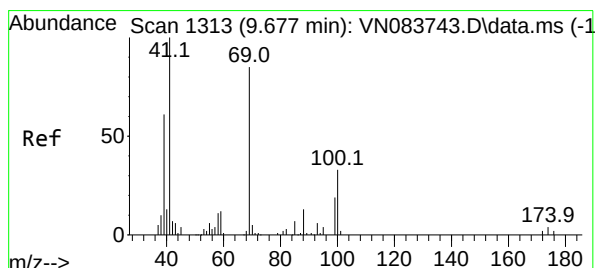
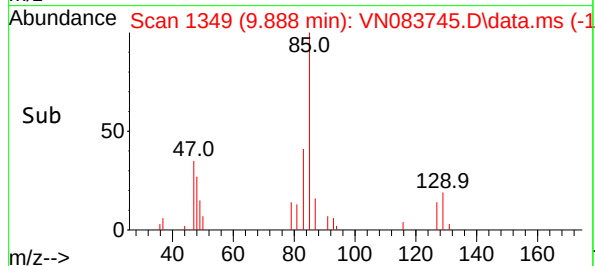
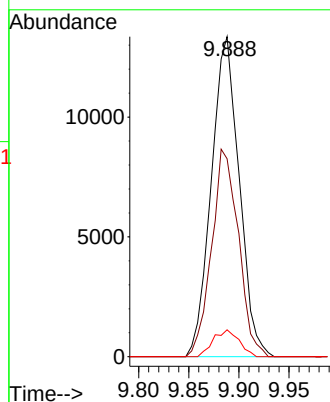
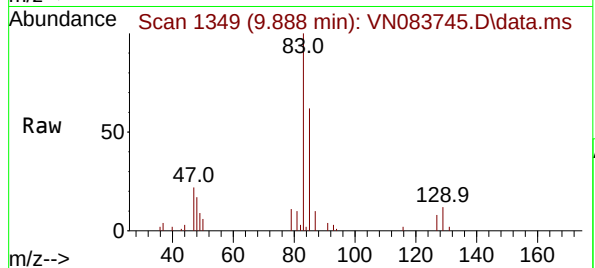
Tgt Ion: 83	Resp: 2582
Ion Ratio	Lower Upper
83	100
85	61.8 51.8 77.8
127	8.4 6.6 9.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#48

Methyl methacrylate

Concen: 8.733 ug/l

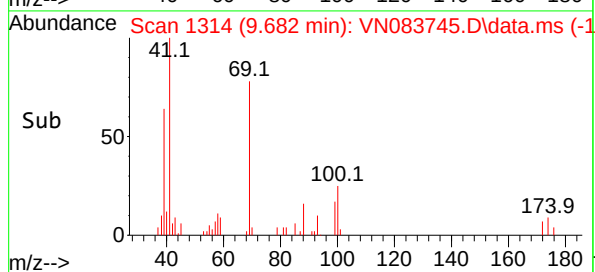
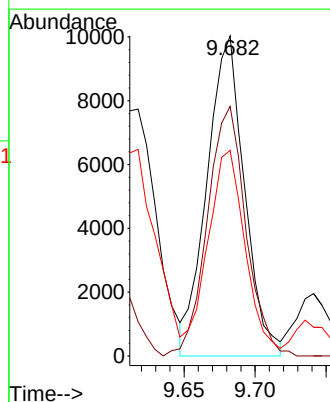
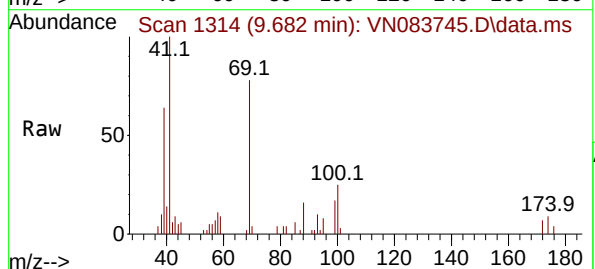
RT: 9.682 min Scan# 1314

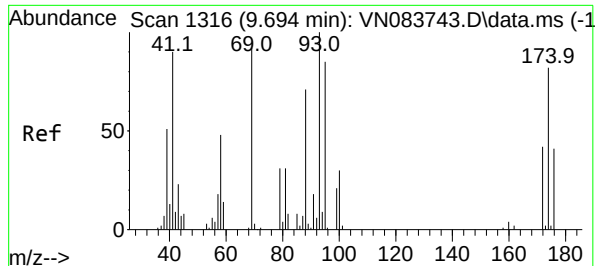
Delta R.T. 0.006 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Tgt Ion: 41	Resp: 18399
Ion Ratio	Lower Upper
41	100
69	80.3 64.3 96.5
39	64.6 48.9 73.3





#49

1,4-Dioxane

Concen: 175.652 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 88 Resp: 6088

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

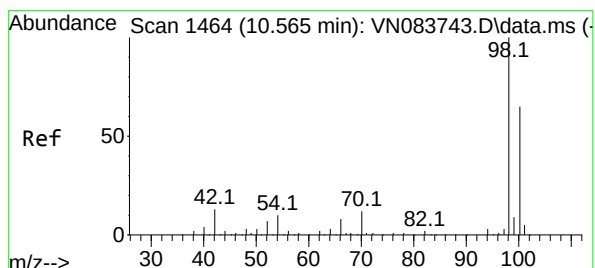
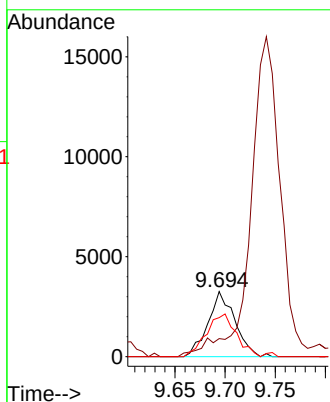
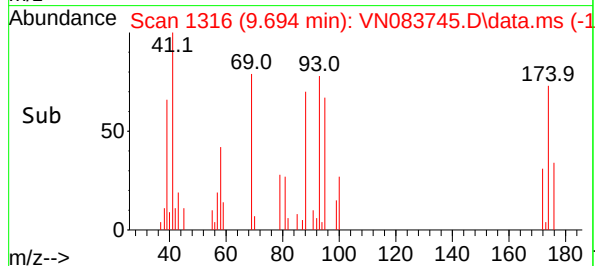
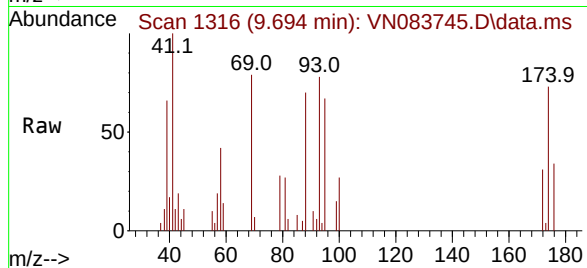
58 72.4 57.1 85.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#50

Toluene-d8

Concen: 10.833 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN083745.D

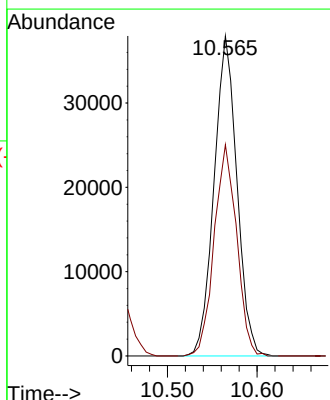
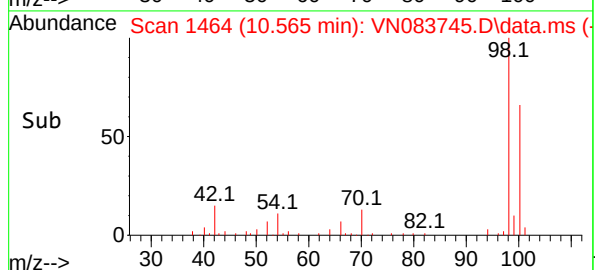
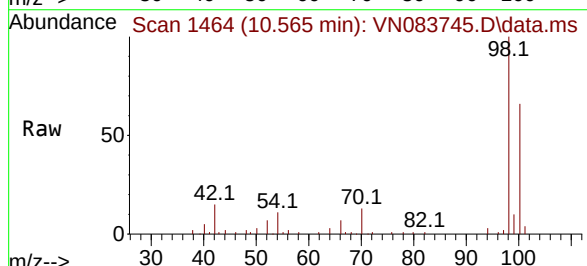
Acq: 10 Sep 2024 10:20

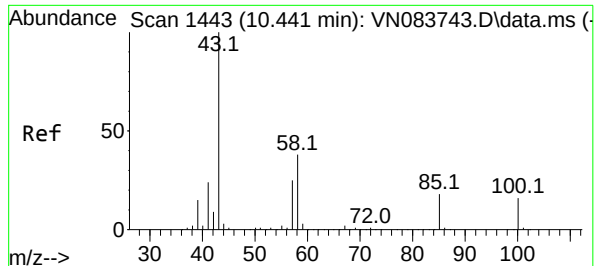
Tgt Ion: 98 Resp: 67177

Ion Ratio Lower Upper

98 100

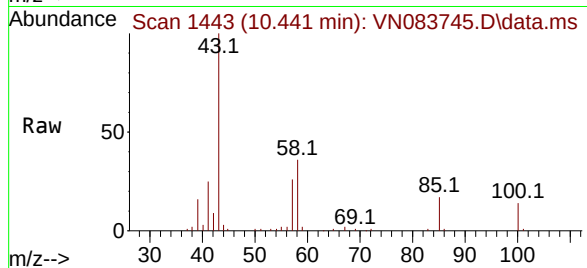
100 64.9 52.0 78.0





#51
4-Methyl-2-Pentanone
Concen: 43.923 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

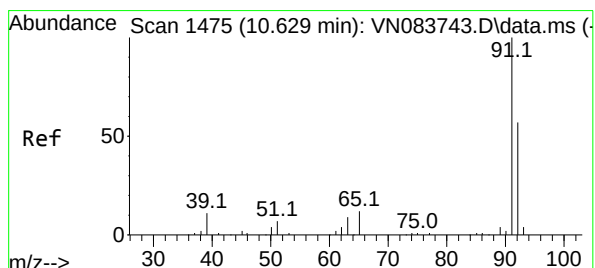
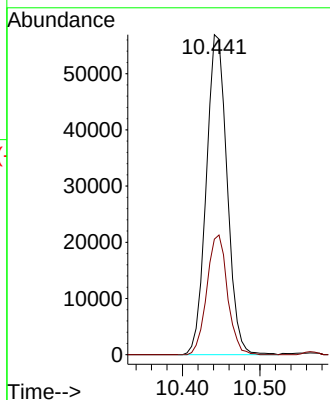
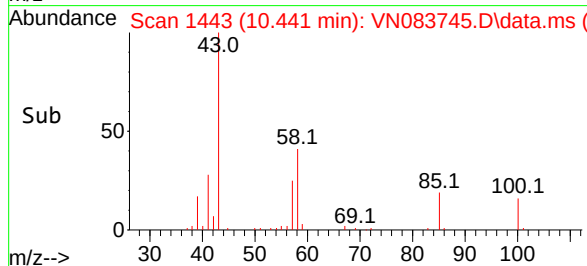
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 43 Resp: 10617
Ion Ratio Lower Upper
43 100
58 37.0 31.6 47.4

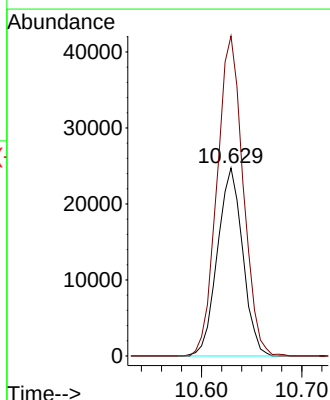
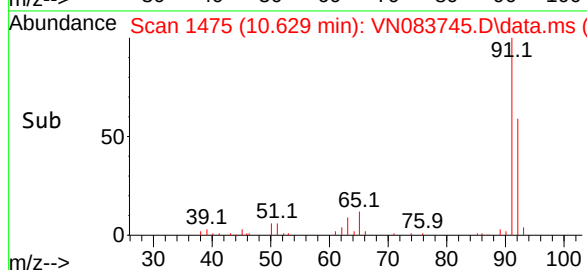
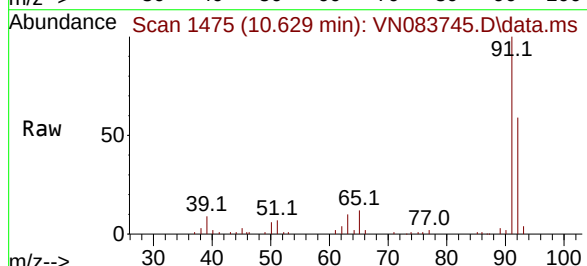
Manual Integrations
APPROVED

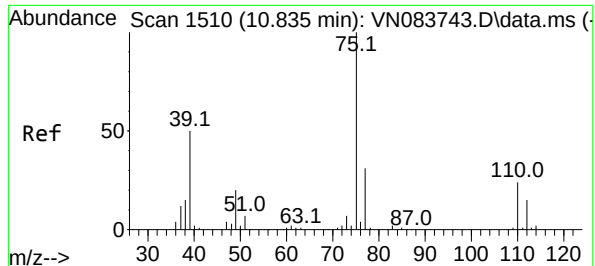
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#52
Toluene
Concen: 8.710 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

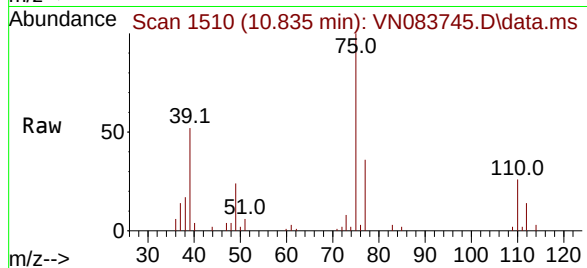
Tgt Ion: 92 Resp: 43293
Ion Ratio Lower Upper
92 100
91 176.0 134.7 202.1





#53
t-1,3-Dichloropropene
Concen: 8.667 ug/l
RT: 10.835 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

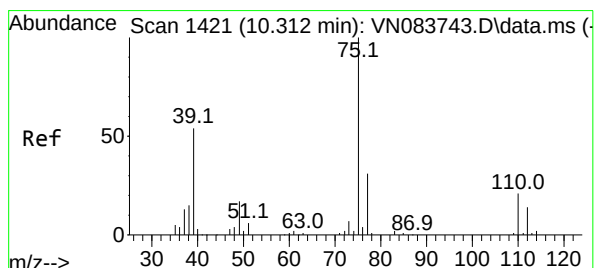
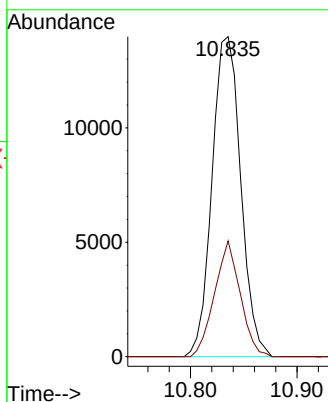
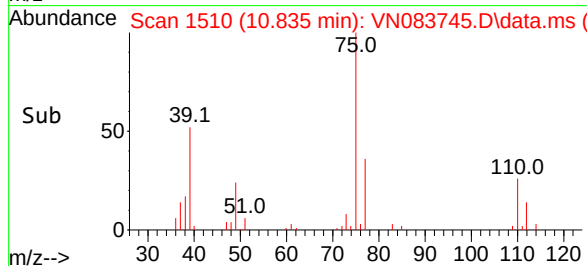
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 75 Resp: 26150
Ion Ratio Lower Upper
75 100
77 36.2 25.8 38.6

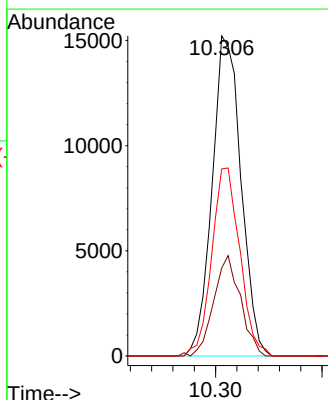
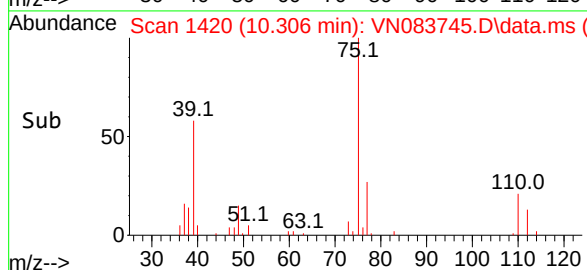
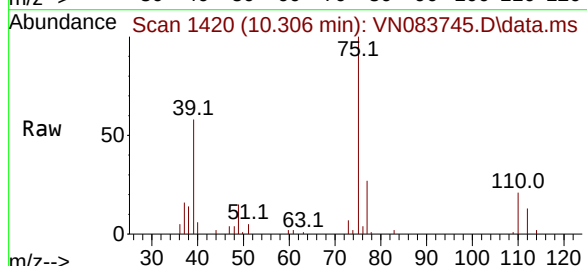
Manual Integrations
APPROVED

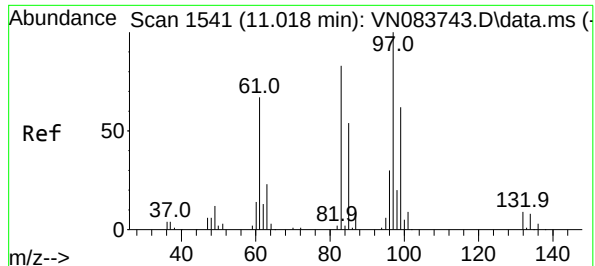
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#54
cis-1,3-Dichloropropene
Concen: 9.037 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 75 Resp: 28646
Ion Ratio Lower Upper
75 100
77 27.5 25.0 37.6
39 58.5 42.6 64.0





#55

1,1,2-Trichloroethane

Concen: 8.725 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 97 Resp: 1619

Ion Ratio Lower Upper

97 100

83 94.1 67.5 101.3

85 57.3 44.2 66.2

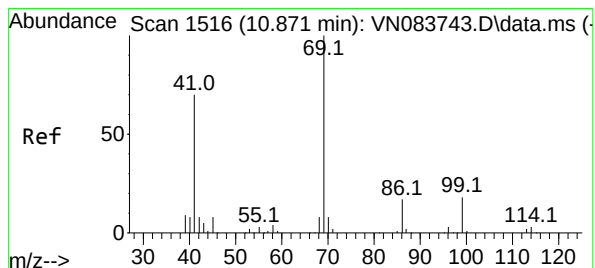
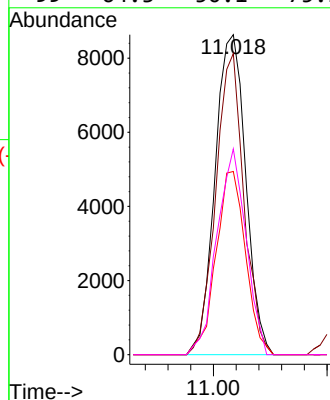
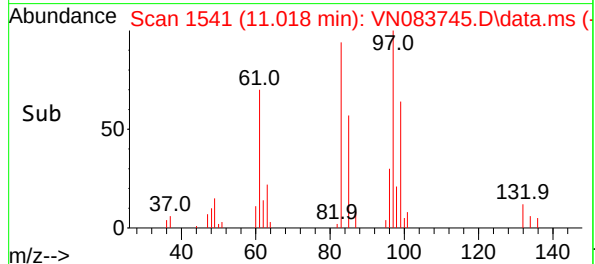
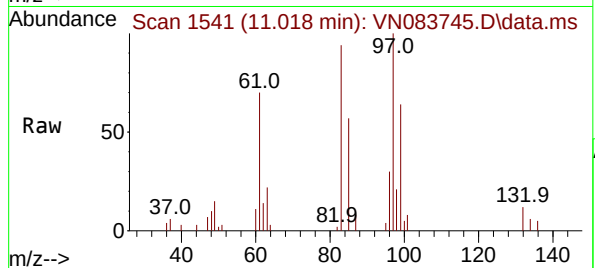
99 64.3 50.1 75.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#56

Ethyl methacrylate

Concen: 8.622 ug/l

RT: 10.870 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

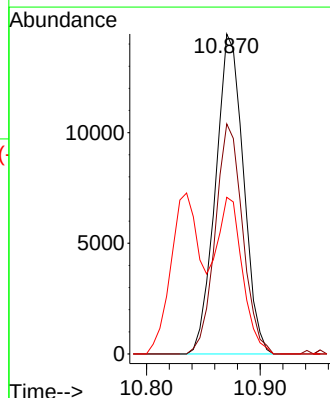
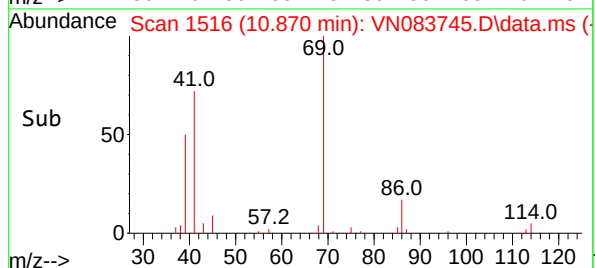
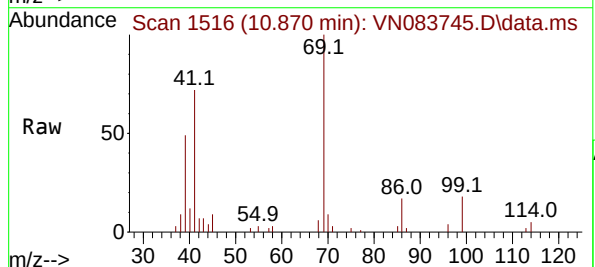
Tgt Ion: 69 Resp: 24616

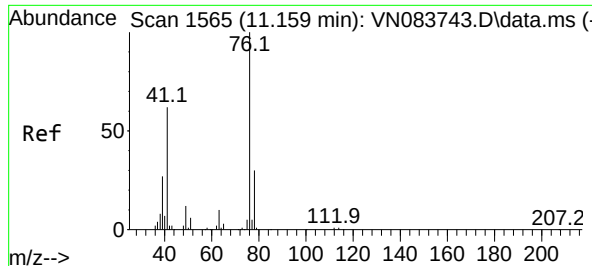
Ion Ratio Lower Upper

69 100

41 70.8 53.9 80.9

39 46.7 32.6 48.8





#57

1,3-Dichloropropane

Concen: 8.865 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 76 Resp: 2827

Ion Ratio Lower Upper

76 100

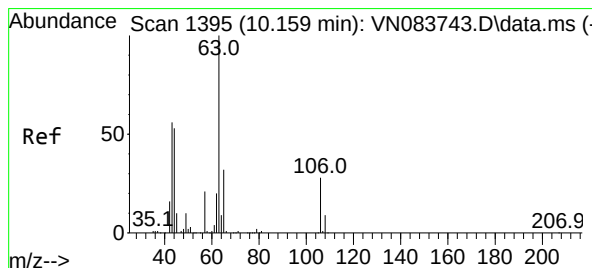
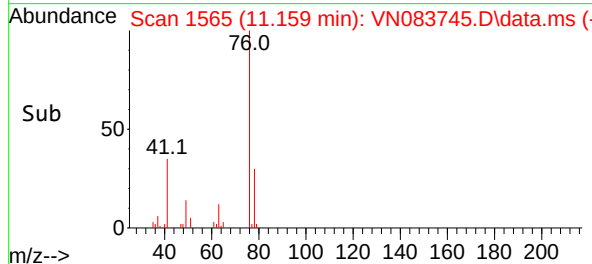
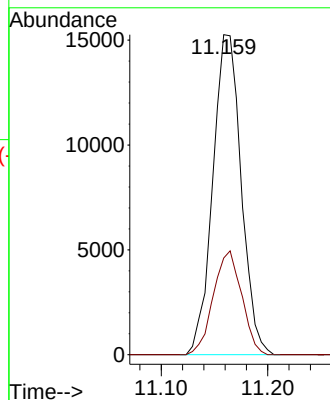
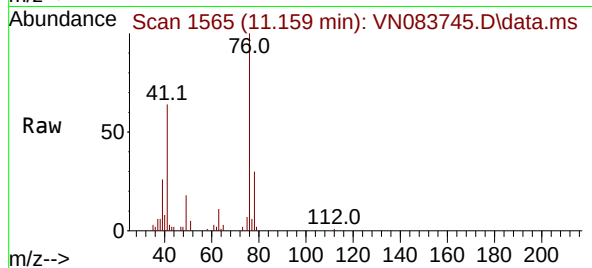
78 32.3 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#58

2-Chloroethyl Vinyl ether

Concen: 48.319 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN083745.D

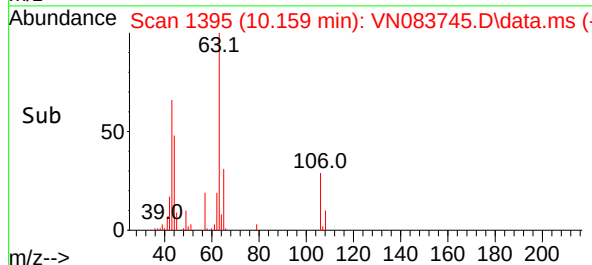
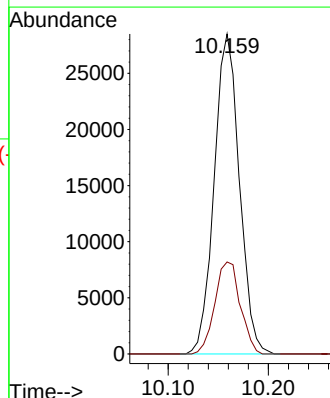
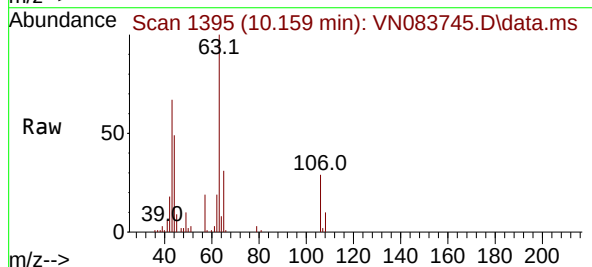
Acq: 10 Sep 2024 10:20

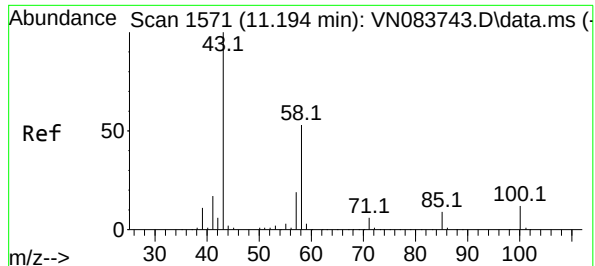
Tgt Ion: 63 Resp: 49705

Ion Ratio Lower Upper

63 100

106 29.0 23.3 34.9





#59

2-Hexanone

Concen: 43.201 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 7725

Ion Ratio Lower Upper

43 100

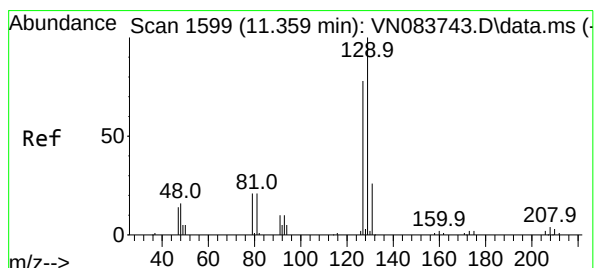
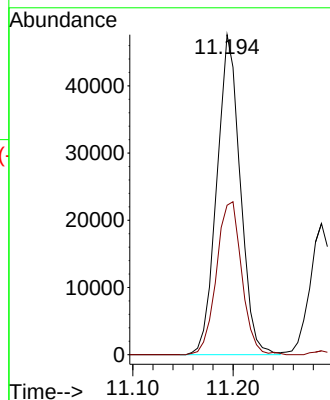
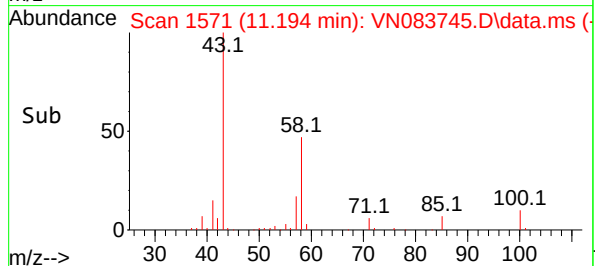
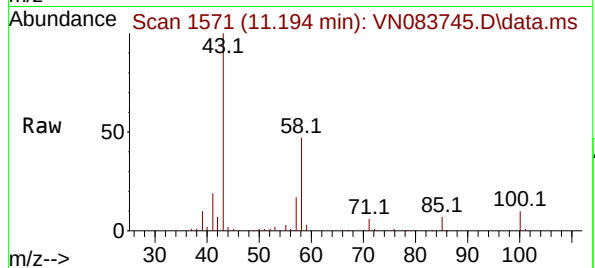
58 51.5 27.2 81.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#60

Dibromochloromethane

Concen: 9.038 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. -0.000 min

Lab File: VN083745.D

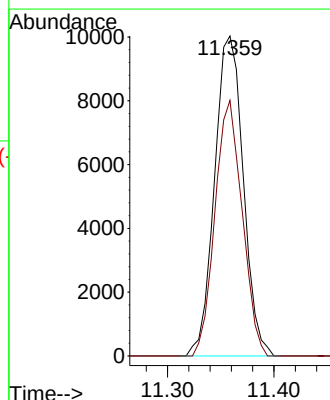
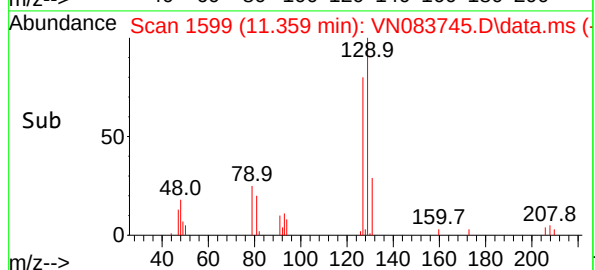
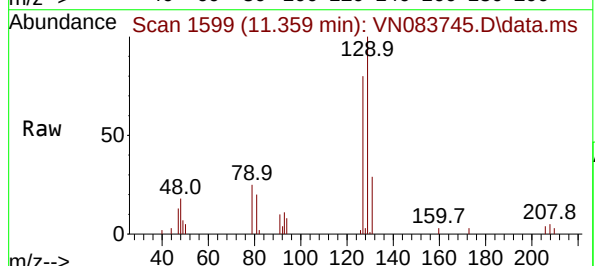
Acq: 10 Sep 2024 10:20

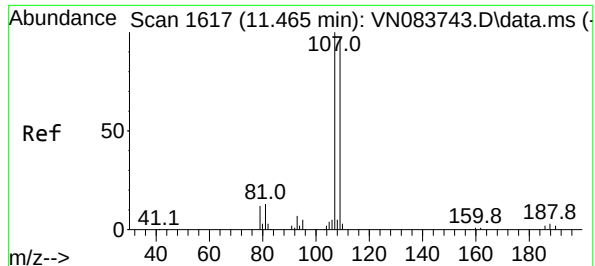
Tgt Ion:129 Resp: 18769

Ion Ratio Lower Upper

129 100

127 75.6 39.0 116.9





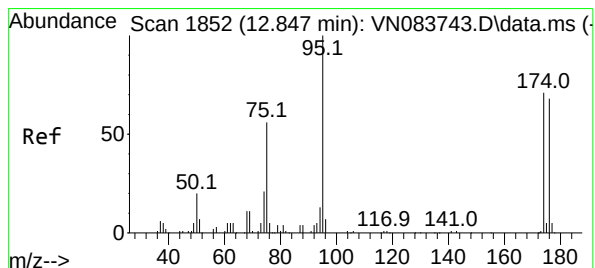
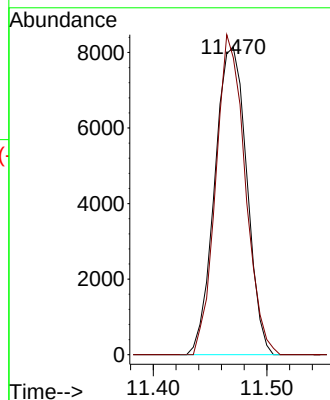
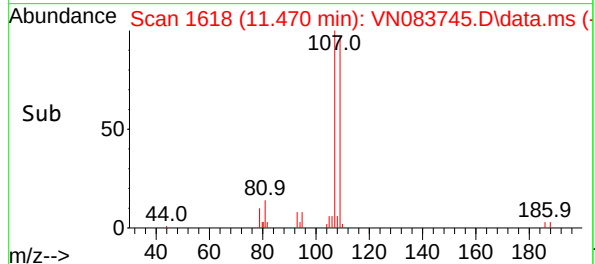
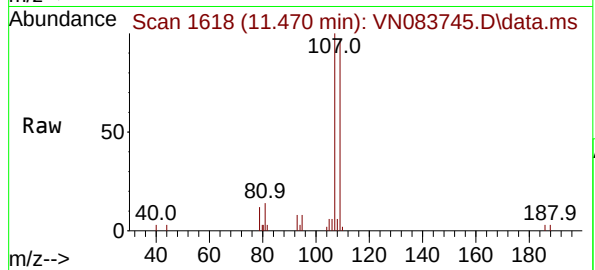
#61
1,2-Dibromoethane
Concen: 8.623 ug/l
RT: 11.470 min Scan# 1617
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tgt Ion:107 Resp: 15958
Ion Ratio Lower Upper
107 100
109 95.4 75.6 113.4

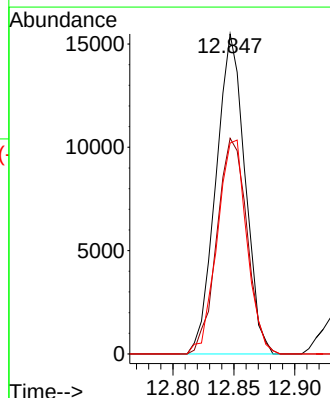
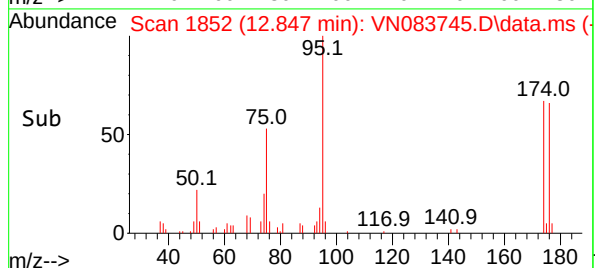
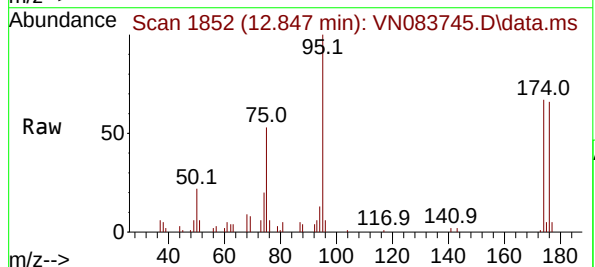
Manual Integrations
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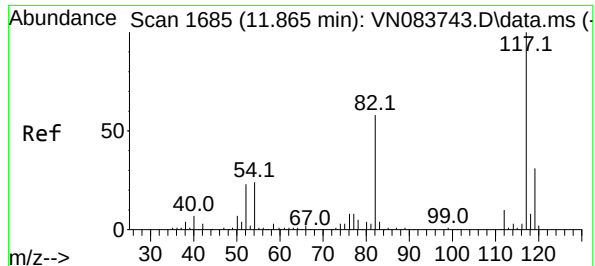
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#62
4-Bromofluorobenzene
Concen: 10.043 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 95 Resp: 25692
Ion Ratio Lower Upper
95 100
174 70.0 0.0 139.8
176 68.2 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:117 Resp: 236954

Ion Ratio Lower Upper

117 100

82 60.7 47.4 71.0

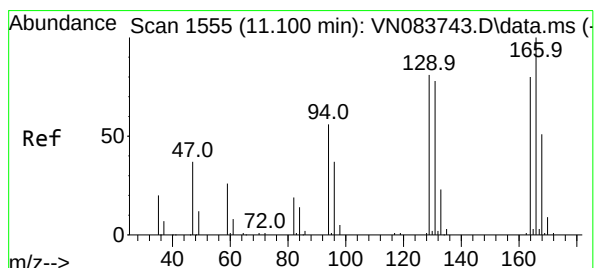
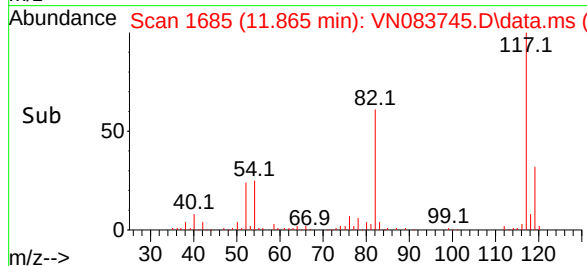
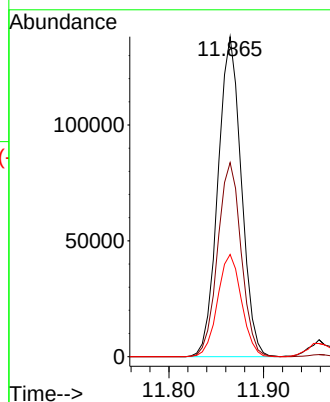
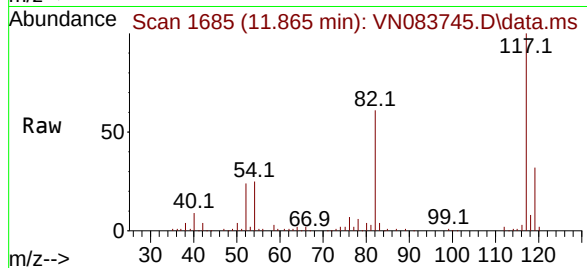
119 31.9 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#64

Tetrachloroethene

Concen: 9.082 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Tgt Ion:164 Resp: 14312

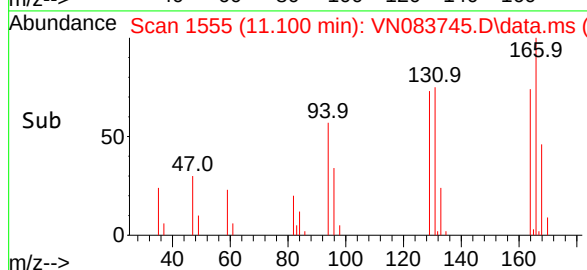
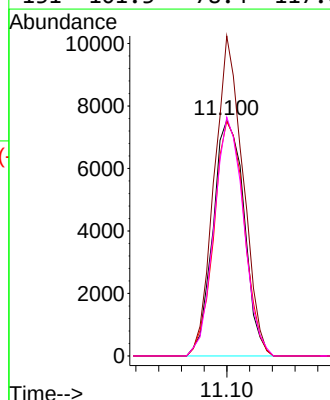
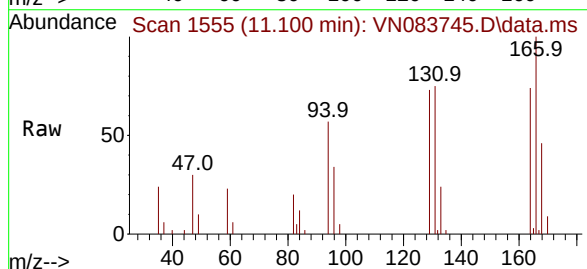
Ion Ratio Lower Upper

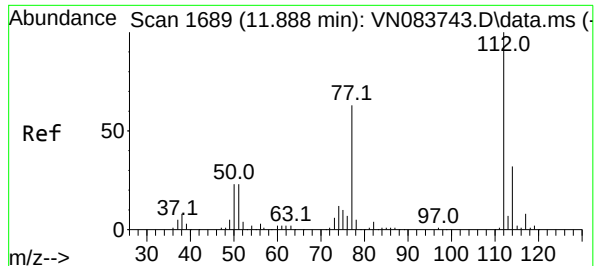
164 100

166 135.7 103.7 155.5

129 99.6 79.9 119.9

131 101.3 78.4 117.6





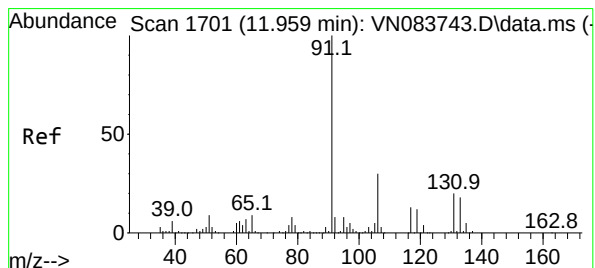
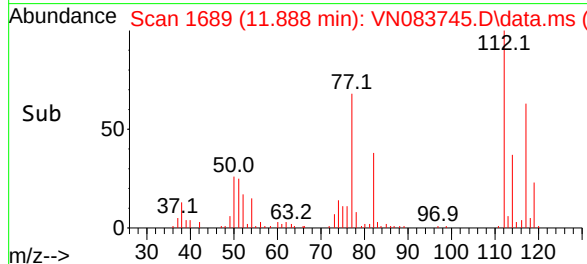
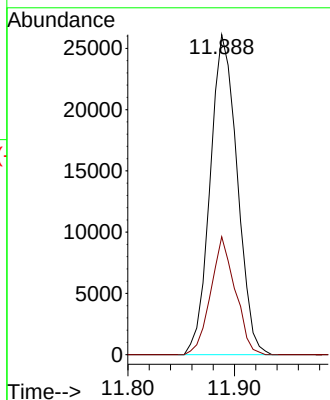
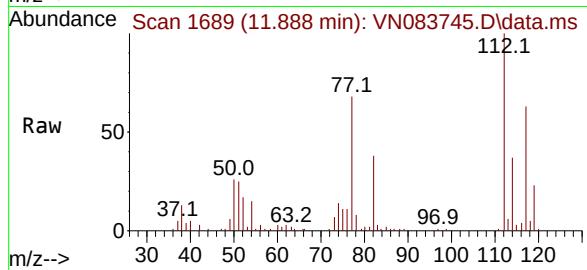
#65
Chlorobenzene
Concen: 8.753 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tgt Ion:112 Resp: 46098
Ion Ratio Lower Upper
112 100
114 36.8 25.7 38.5

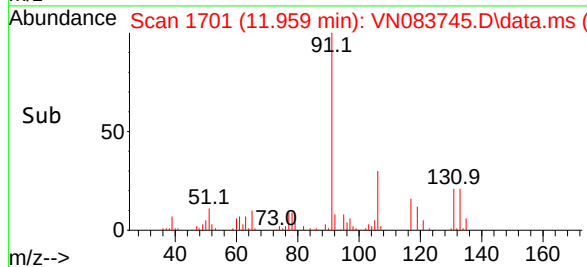
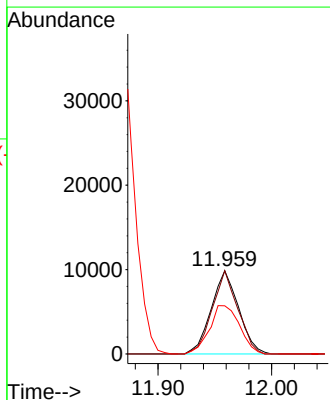
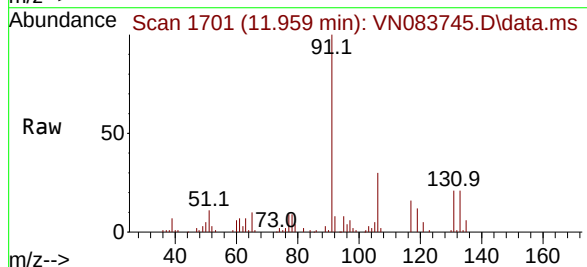
Manual Integrations
APPROVED

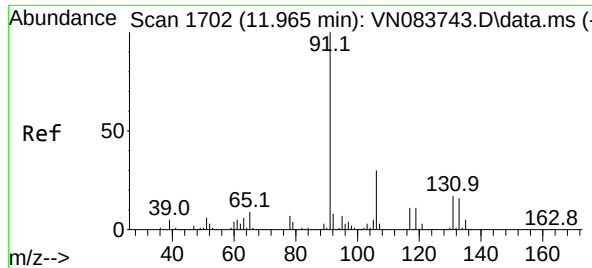
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 9.073 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:131 Resp: 16565
Ion Ratio Lower Upper
131 100
133 93.2 47.5 142.6
119 63.7 31.6 94.8





#67

Ethyl Benzene

Concen: 8.852 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 91 Resp: 82814

Ion Ratio Lower Upper

91 100

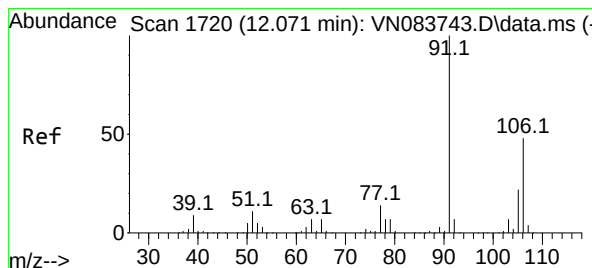
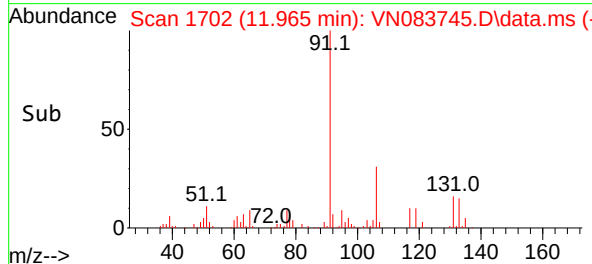
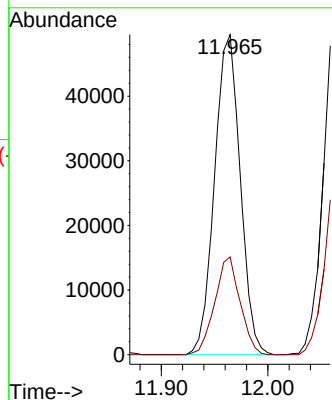
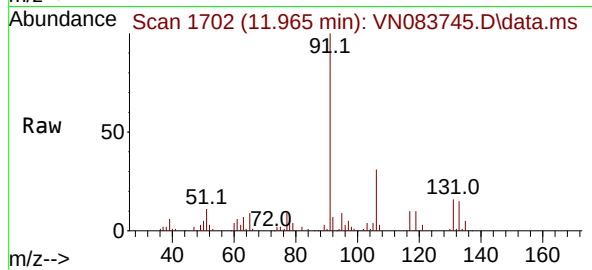
106 30.6 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#68

m/p-Xylenes

Concen: 17.786 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN083745.D

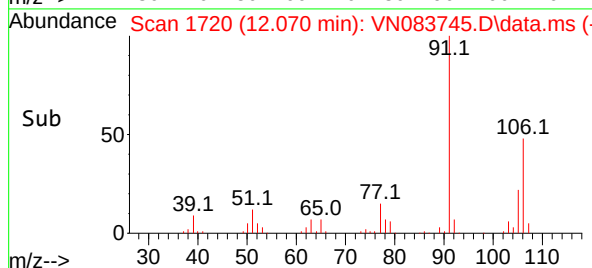
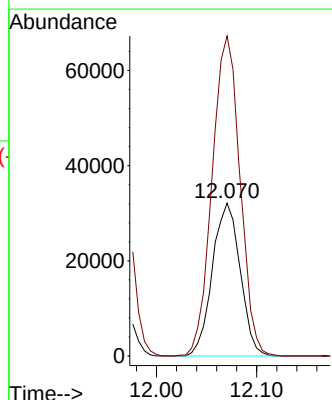
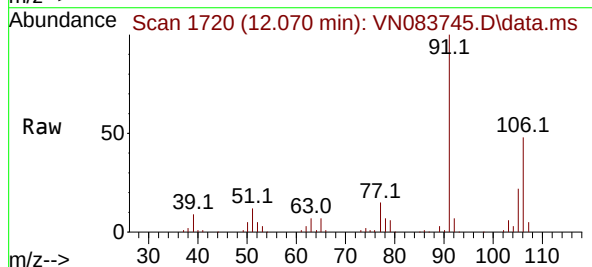
Acq: 10 Sep 2024 10:20

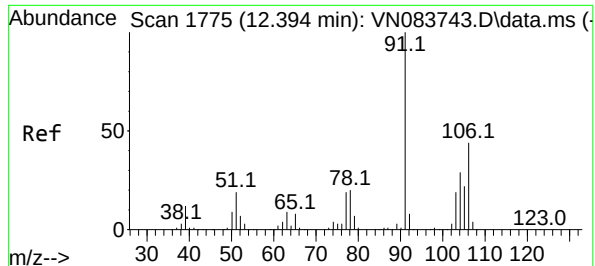
Tgt Ion:106 Resp: 61777

Ion Ratio Lower Upper

106 100

91 210.7 169.2 253.8





#69

o-Xylene

Concen: 9.224 ug/l

RT: 12.400 min Scan# 1775

Delta R.T. 0.006 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:106 Resp: 3101

Ion Ratio Lower Upper

106 100

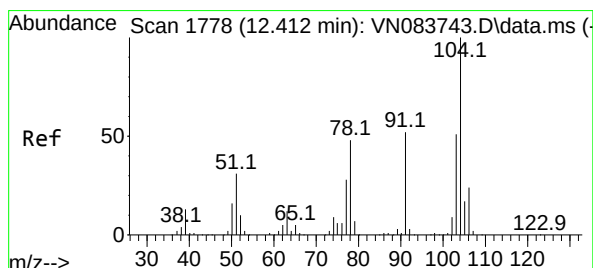
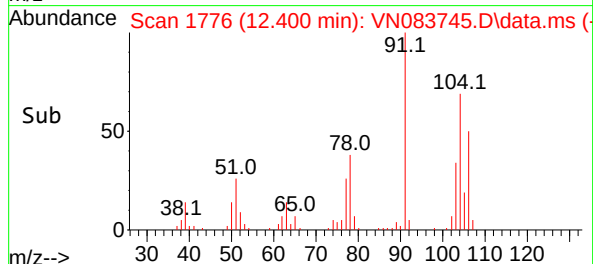
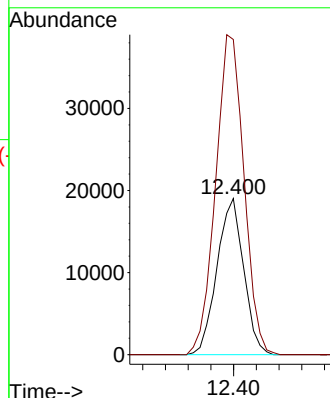
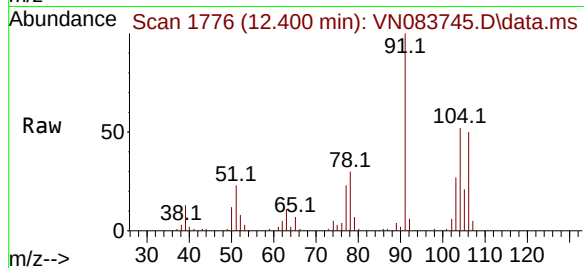
91 217.7 112.9 338.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#70

Styrene

Concen: 8.656 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

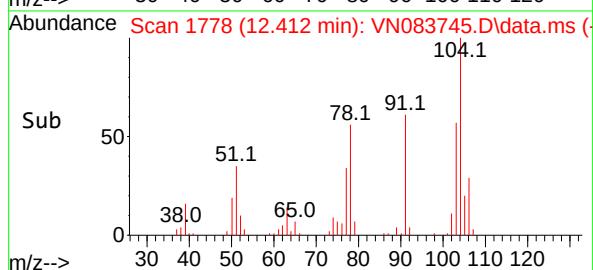
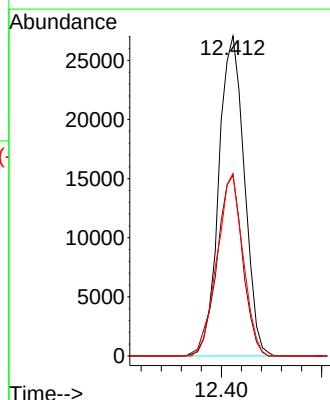
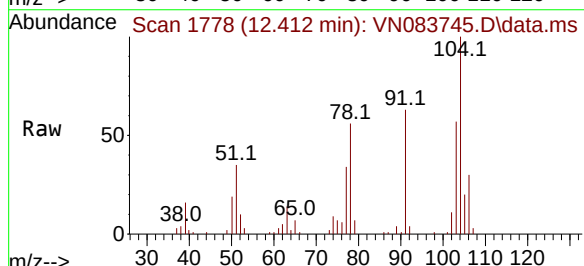
Tgt Ion:104 Resp: 47767

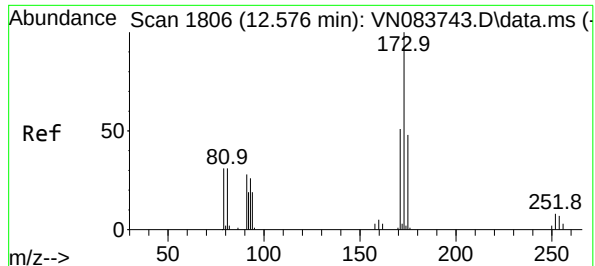
Ion Ratio Lower Upper

104 100

78 57.2 43.3 64.9

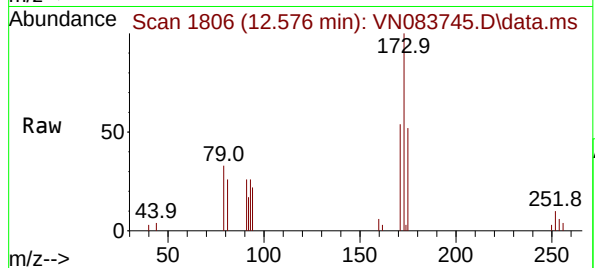
103 57.5 43.4 65.2





#71
Bromoform
Concen: 8.701 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

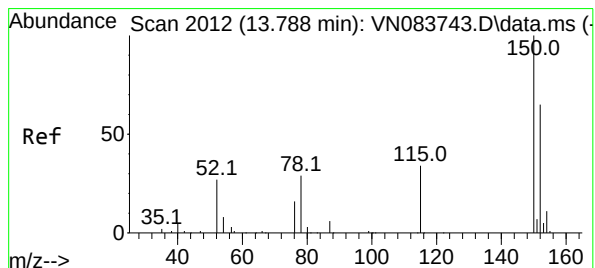
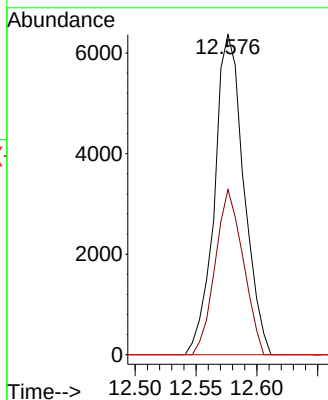
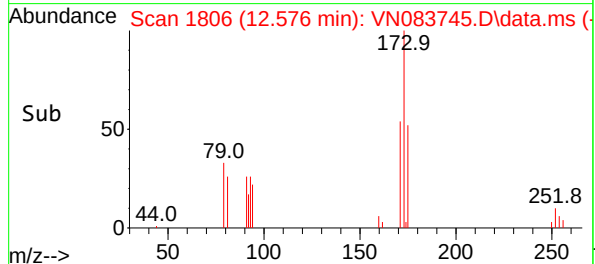
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion:173 Resp: 10709
Ion Ratio Lower Upper
173 100
175 49.1 24.1 72.2
254 0.0 0.0 0.0

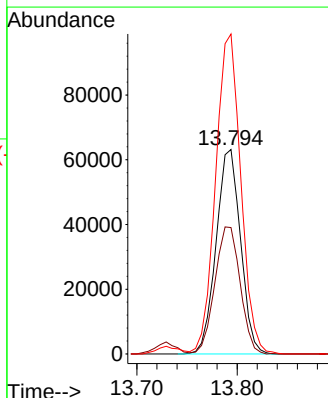
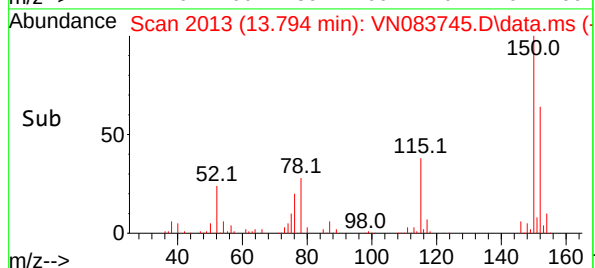
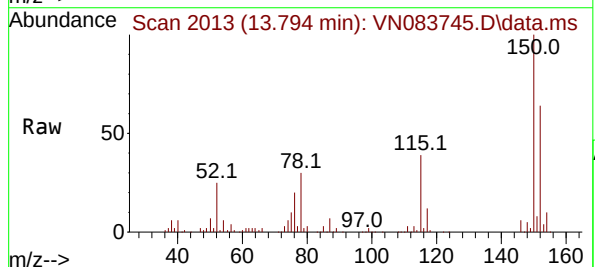
Manual Integrations
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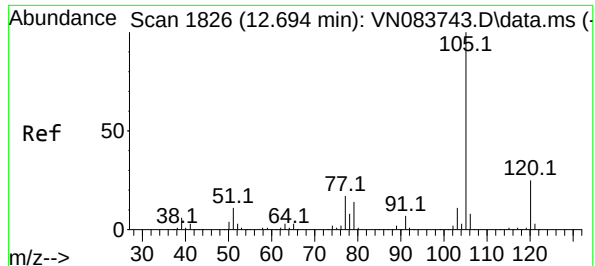
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:152 Resp: 106718
Ion Ratio Lower Upper
152 100
115 64.4 32.2 96.6
150 161.3 0.0 348.6



#73
Isopropylbenzene

Concen: 9.296 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:105 Resp: 7675

Ion Ratio Lower Upper

105 100

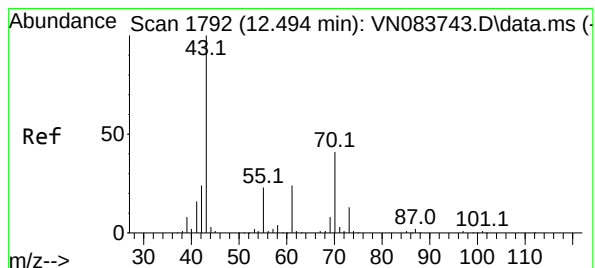
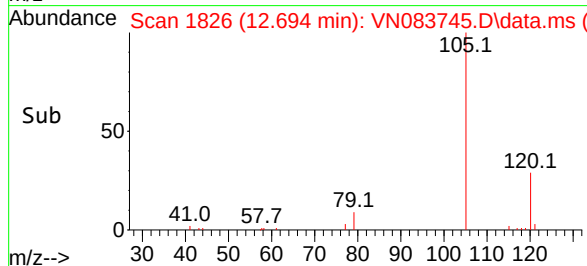
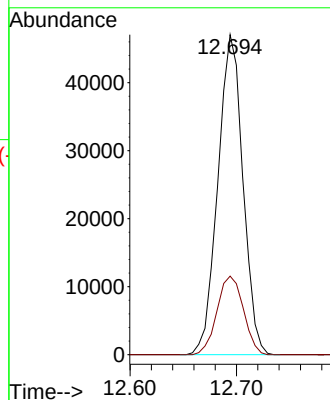
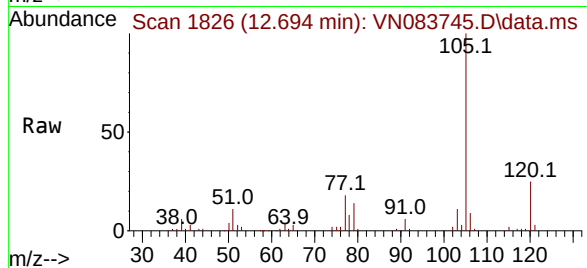
120 25.9 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#74

N-ethyl acetate

Concen: 8.982 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Tgt Ion: 43 Resp: 31640

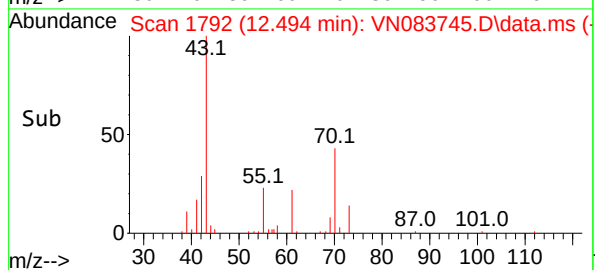
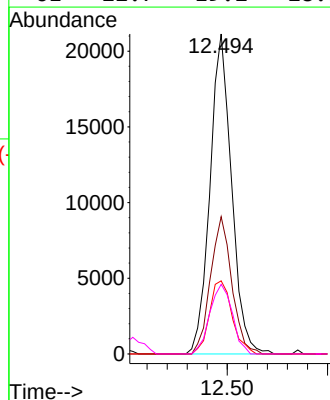
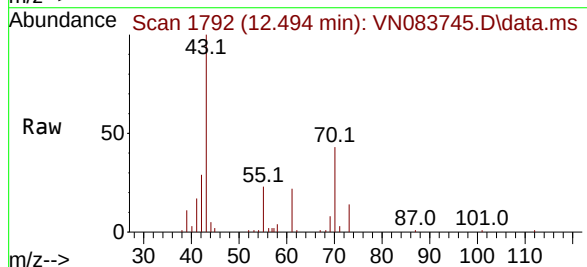
Ion Ratio Lower Upper

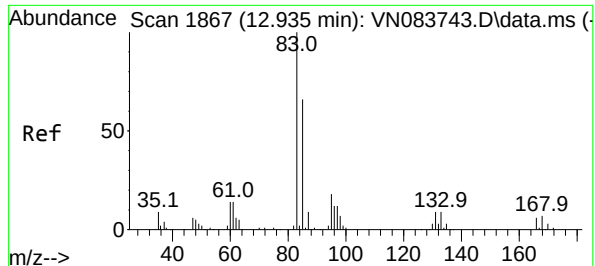
43 100

70 42.3 34.5 51.7

55 24.0 18.6 28.0

61 22.7 19.2 28.8





#75

1,1,2,2-Tetrachloroethane

Concen: 9.365 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 83 Resp: 22718

Ion Ratio Lower Upper

83 100

131 10.3 5.2 15.6

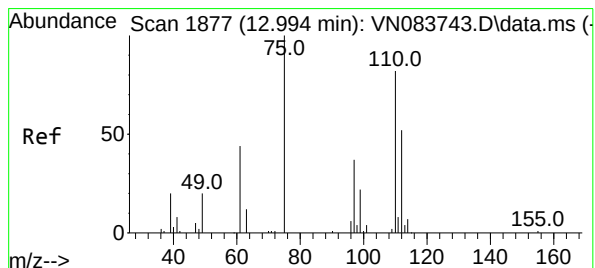
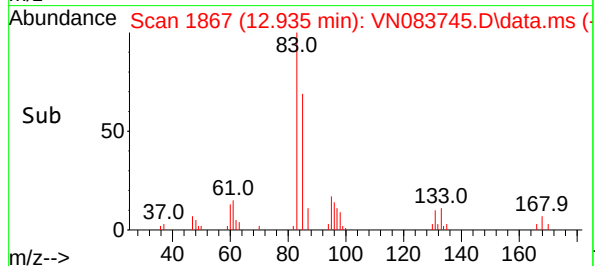
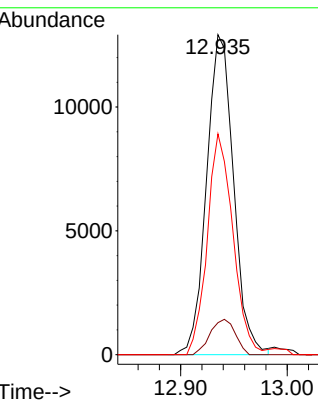
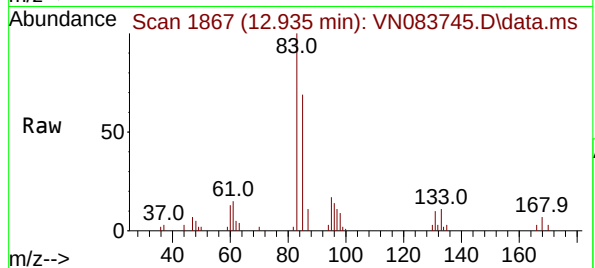
85 65.5 31.9 95.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#76

1,2,3-Trichloropropane

Concen: 8.895 ug/l m

RT: 12.994 min Scan# 1877

Delta R.T. -0.000 min

Lab File: VN083745.D

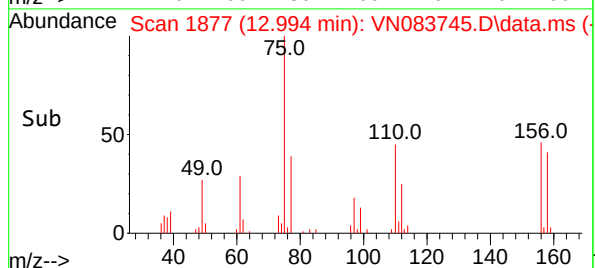
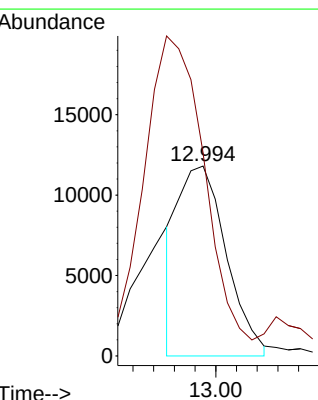
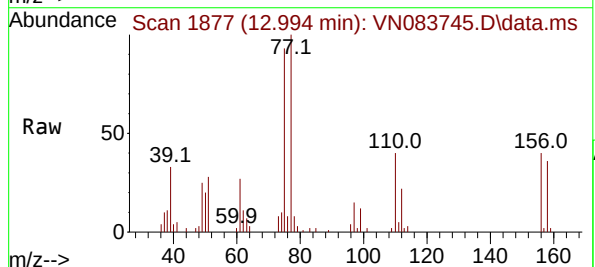
Acq: 10 Sep 2024 10:20

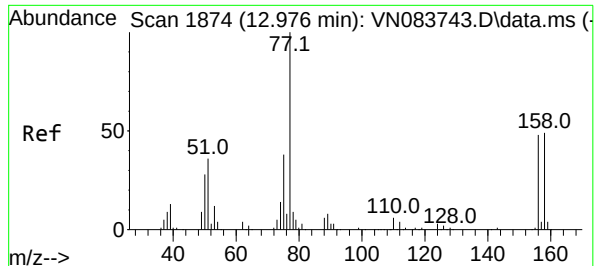
Tgt Ion: 75 Resp: 19154

Ion Ratio Lower Upper

75 100

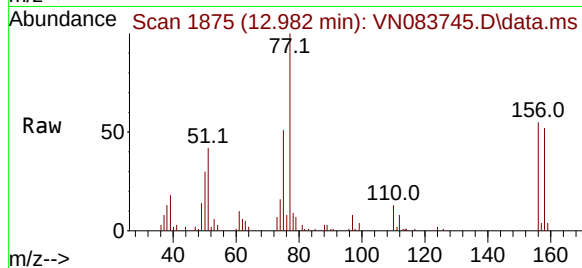
77 216.5 95.2 285.6





#77
Bromobenzene
Concen: 9.489 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

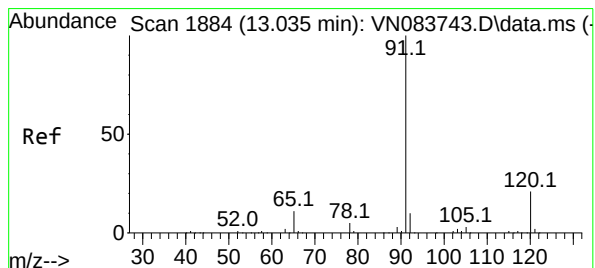
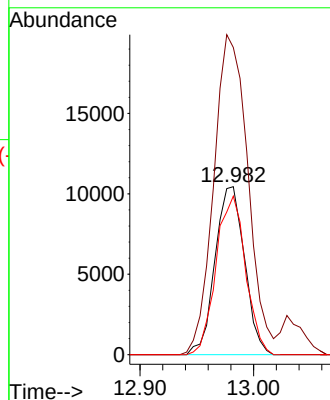
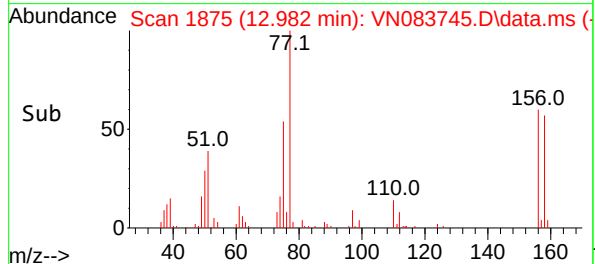
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010



Tgt Ion:156 Resp: 1885
Ion Ratio Lower Upper
156 100
77 219.9 114.3 343.1
158 94.4 48.9 146.7

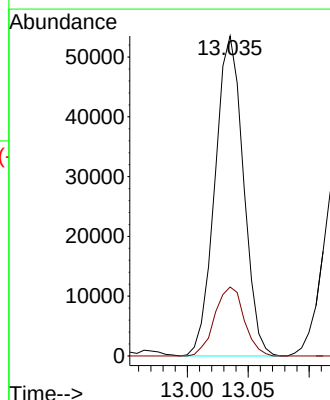
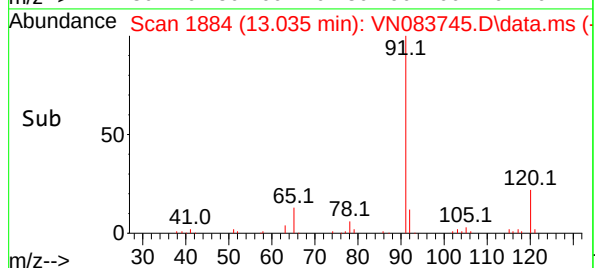
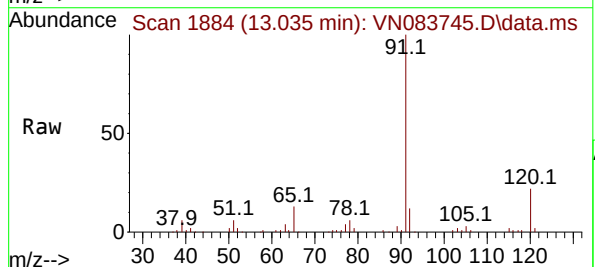
Manual Integrations
APPROVED

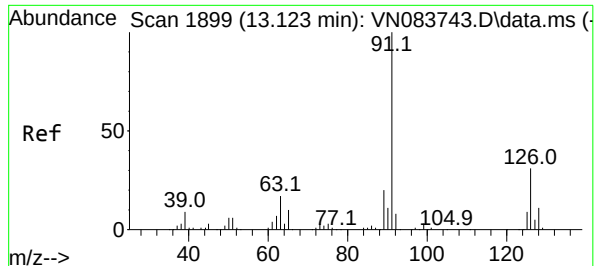
Reviewed By :John Carbone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#78
n-propylbenzene
Concen: 9.052 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 91 Resp: 86960
Ion Ratio Lower Upper
91 100
120 22.3 11.0 33.0





#79

2-Chlorotoluene

Concen: 9.464 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 91 Resp: 5798

Ion Ratio Lower Upper

91 100

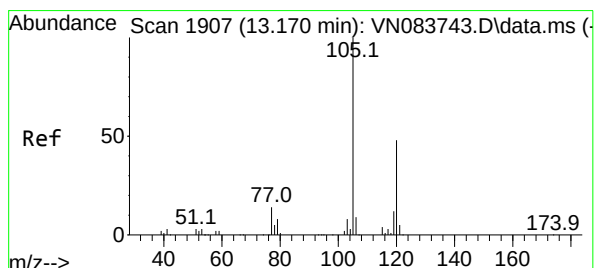
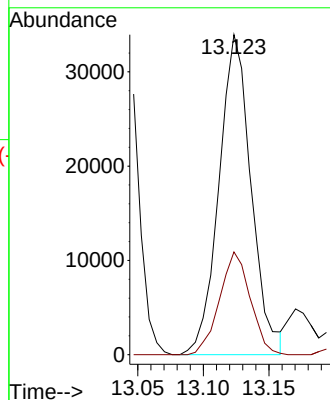
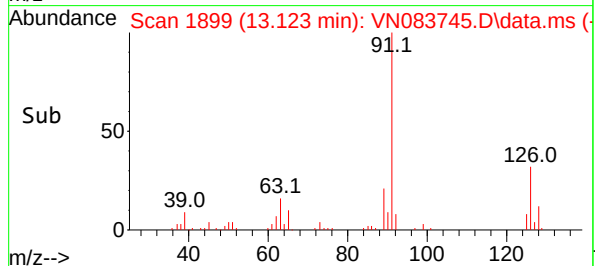
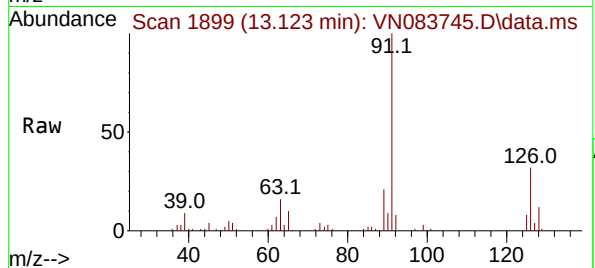
126 30.6 15.4 46.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#80

1,3,5-Trimethylbenzene

Concen: 9.286 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN083745.D

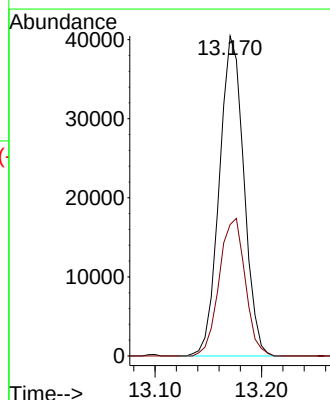
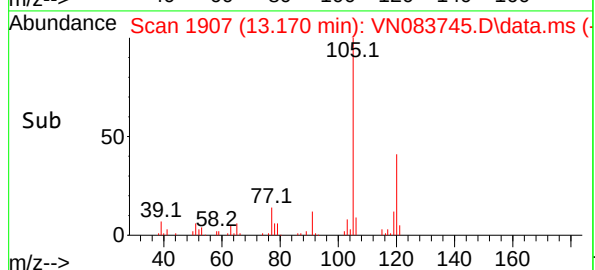
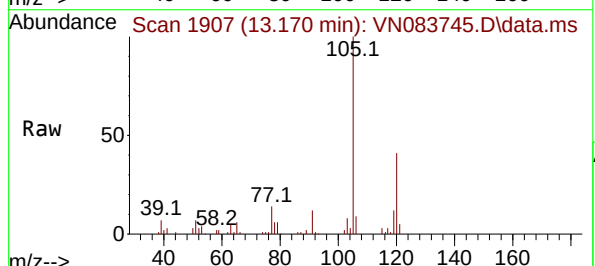
Acq: 10 Sep 2024 10:20

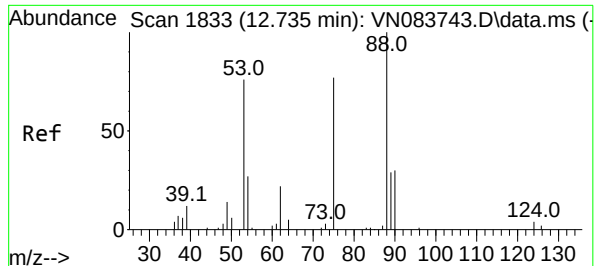
Tgt Ion:105 Resp: 64636

Ion Ratio Lower Upper

105 100

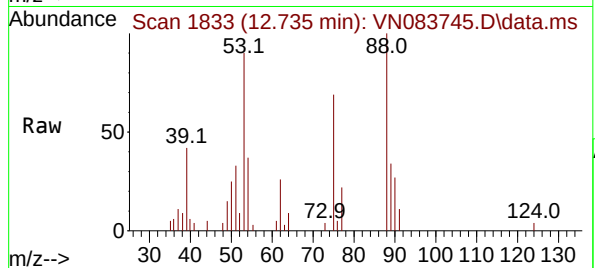
120 45.5 23.4 70.3





#81
trans-1,4-Dichloro-2-butene
Concen: 8.269 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

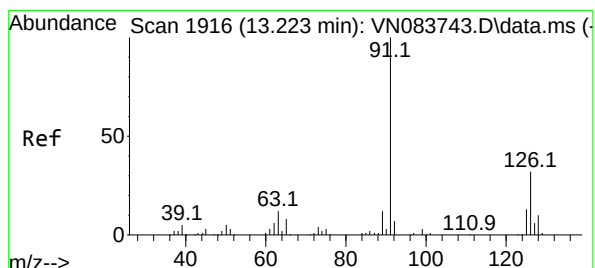
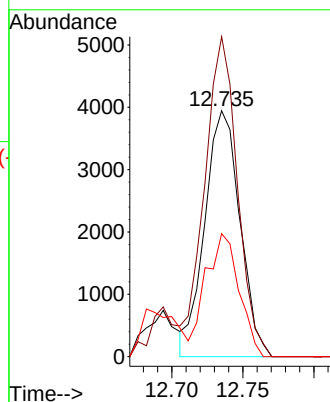
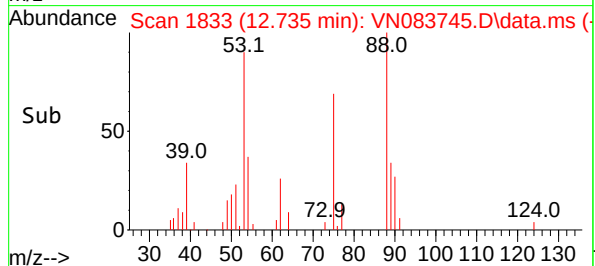
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 75 Resp: 6799
Ion Ratio Lower Upper
75 100
53 121.1 81.2 121.8
89 47.4 35.7 53.5

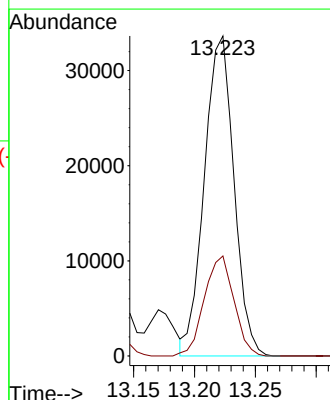
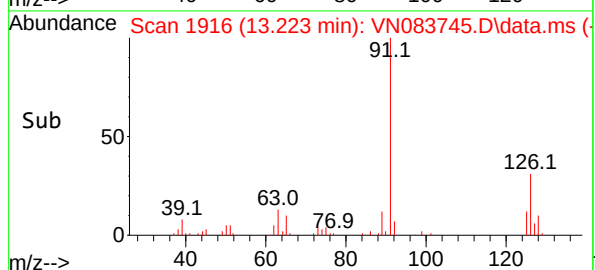
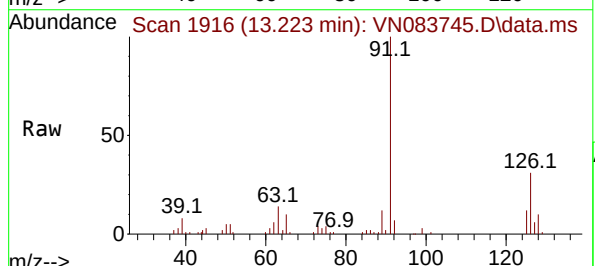
Manual Integrations
APPROVED

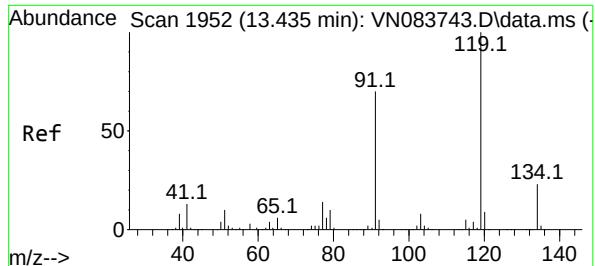
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#82
4-Chlorotoluene
Concen: 9.268 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

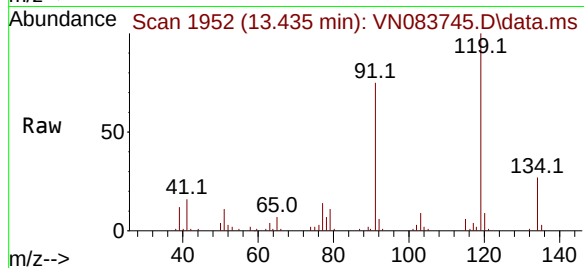
Tgt Ion: 91 Resp: 56980
Ion Ratio Lower Upper
91 100
126 31.2 15.4 46.2





#83
tert-Butylbenzene
Concen: 9.207 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

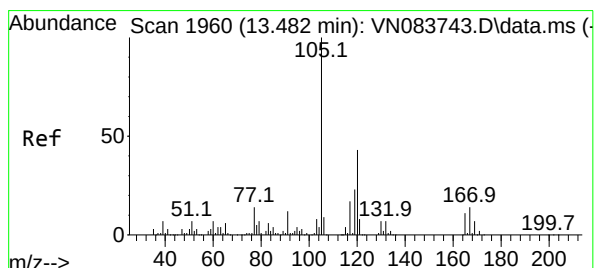
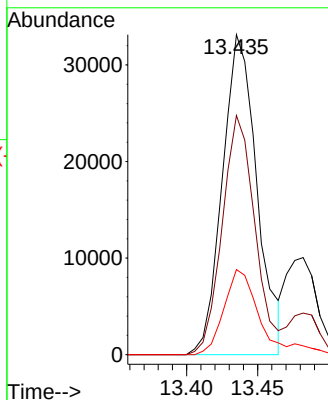
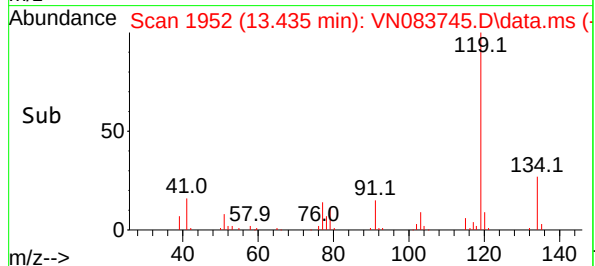
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010



Tgt Ion:119 Resp: 56069
Ion Ratio Lower Upper
119 100
91 70.8 34.5 103.6
134 27.7 12.8 38.4

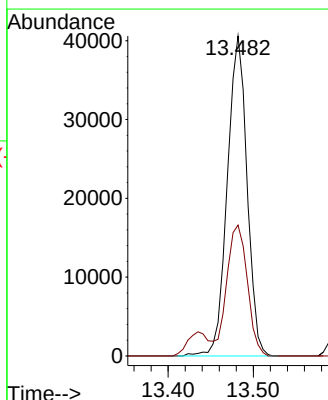
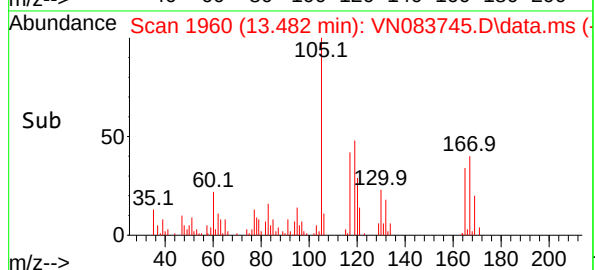
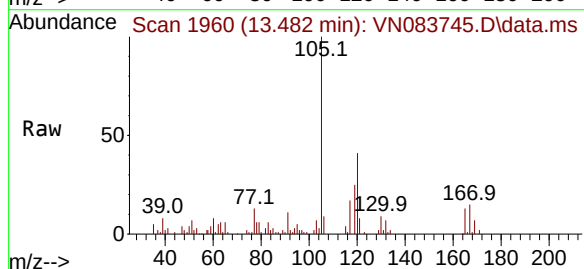
Manual Integrations
APPROVED

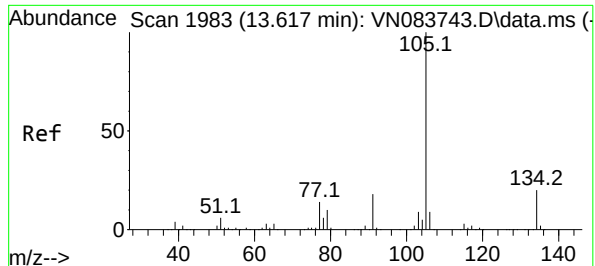
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#84
1,2,4-Trimethylbenzene
Concen: 9.336 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:105 Resp: 65280
Ion Ratio Lower Upper
105 100
120 42.7 21.8 65.4





#85

sec-Butylbenzene

Concen: 9.085 ug/l

RT: 13.617 min Scan# 1983

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:105 Resp: 7338

Ion Ratio Lower Upper

105 100

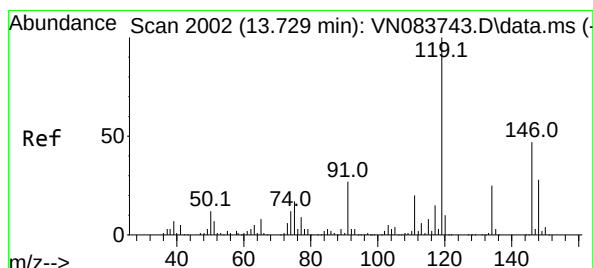
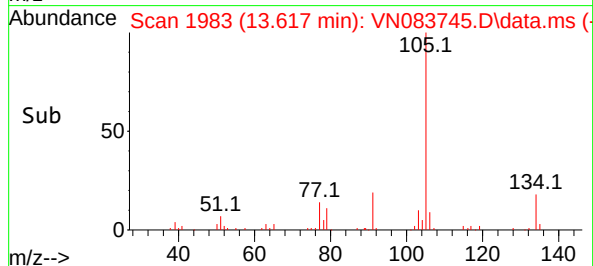
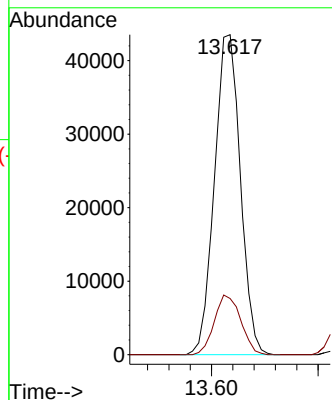
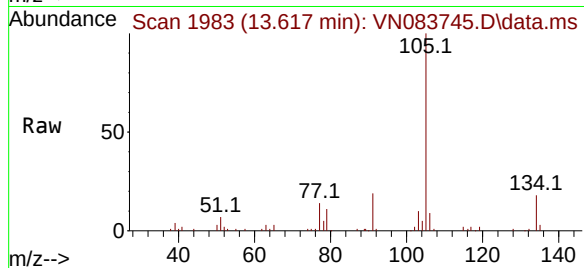
134 19.0 9.7 29.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#86

p-Isopropyltoluene

Concen: 8.916 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

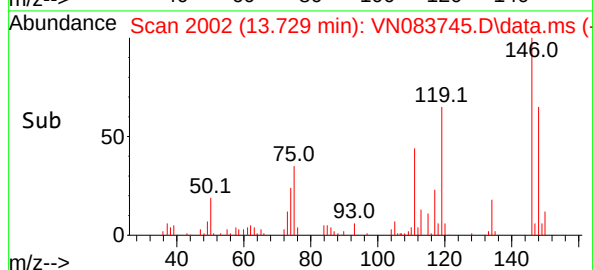
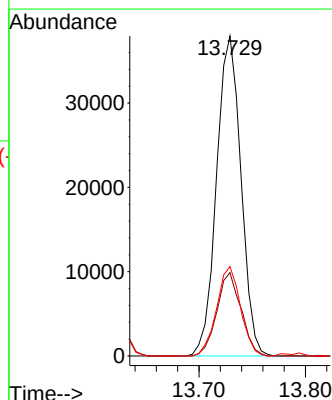
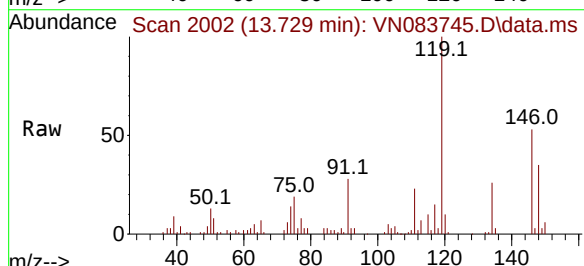
Tgt Ion:119 Resp: 60366

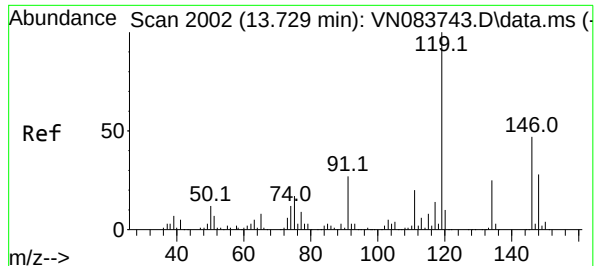
Ion Ratio Lower Upper

119 100

134 25.8 12.8 38.3

91 27.3 12.9 38.7





#87

1,3-Dichlorobenzene

Concen: 9.053 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:146 Resp: 3395

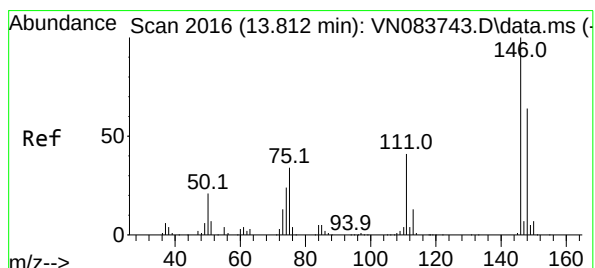
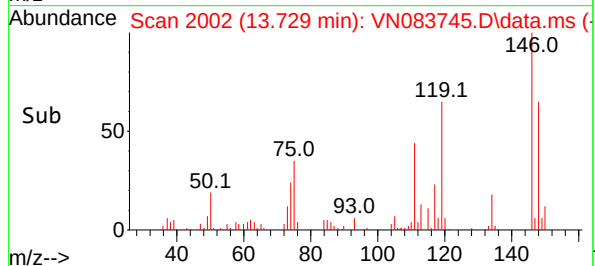
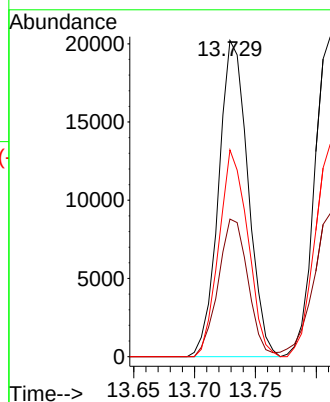
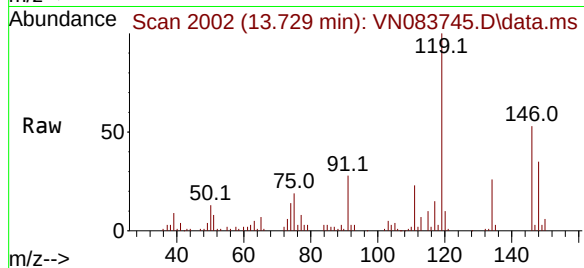
Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.7	65.1
148	64.3	31.7	95.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#88

1,4-Dichlorobenzene

Concen: 9.293 ug/l

RT: 13.811 min Scan# 2016

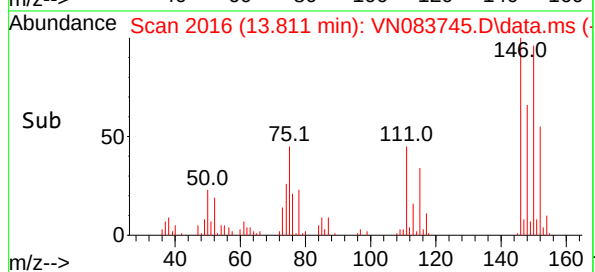
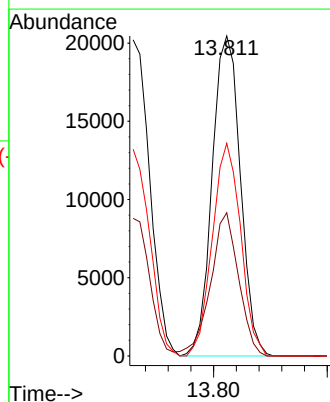
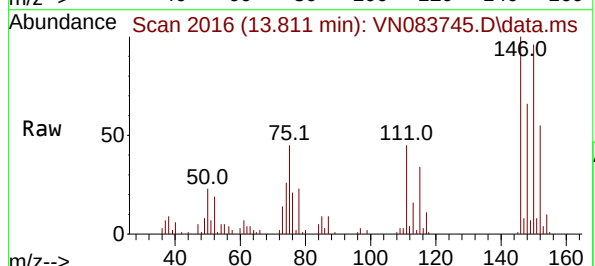
Delta R.T. -0.000 min

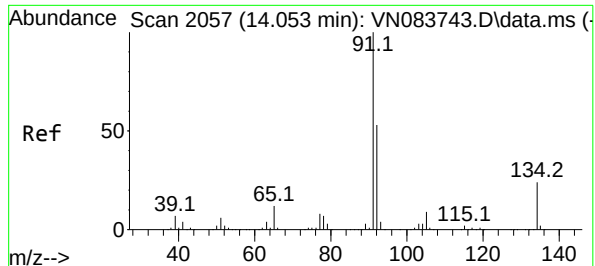
Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Tgt Ion:146 Resp: 35292

Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.3	64.0
148	66.7	32.0	96.2





#89

n-Butylbenzene

Concen: 8.968 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

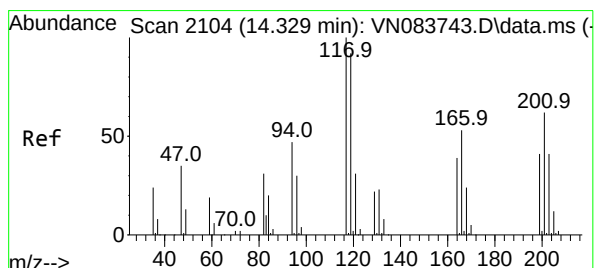
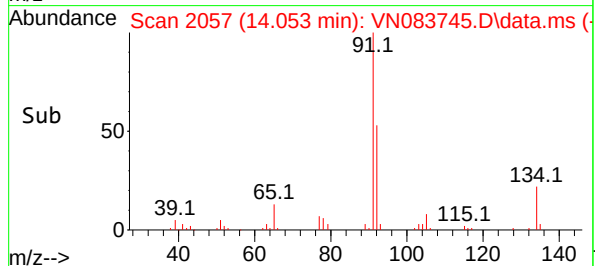
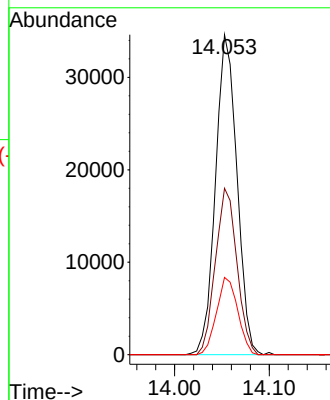
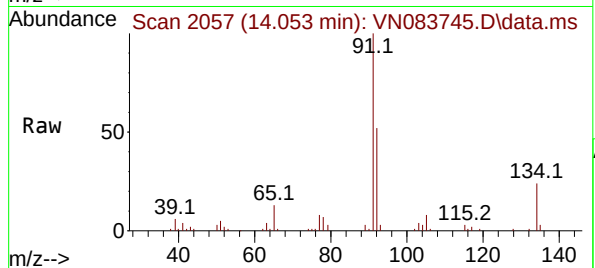
Tgt Ion:	91	Resp:	5451
Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.7	80.1
134	23.8	12.2	36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#90

Hexachloroethane

Concen: 9.298 ug/l

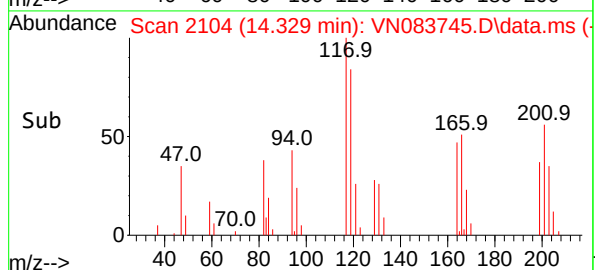
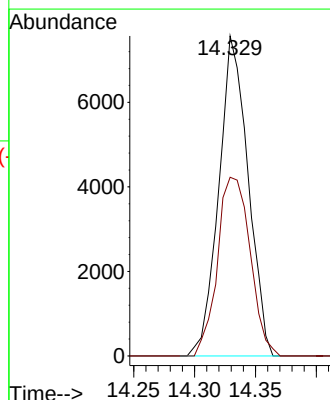
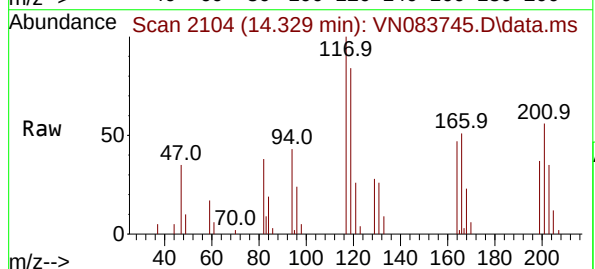
RT: 14.329 min Scan# 2104

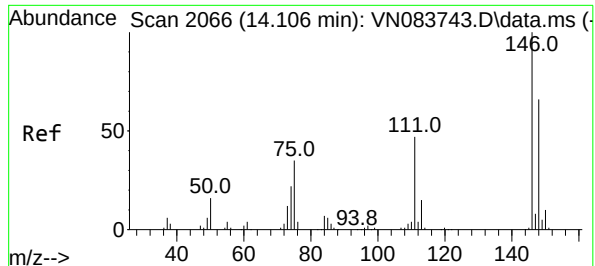
Delta R.T. -0.000 min

Lab File: VN083745.D

Acq: 10 Sep 2024 10:20

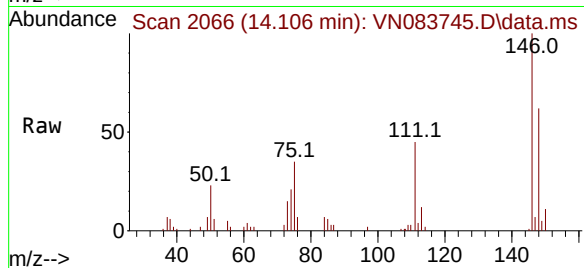
Tgt Ion:	117	Resp:	12655
Ion	Ratio	Lower	Upper
117	100		
201	62.4	32.8	98.3





#91
1,2-Dichlorobenzene
Concen: 9.096 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

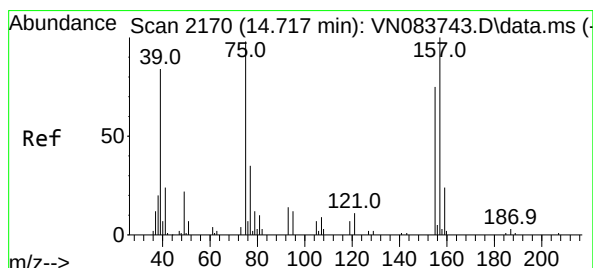
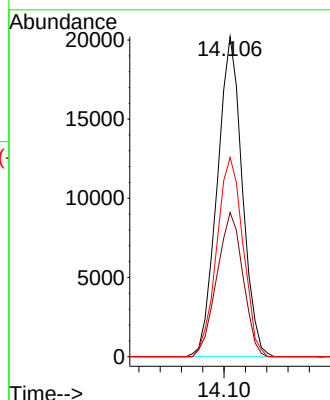
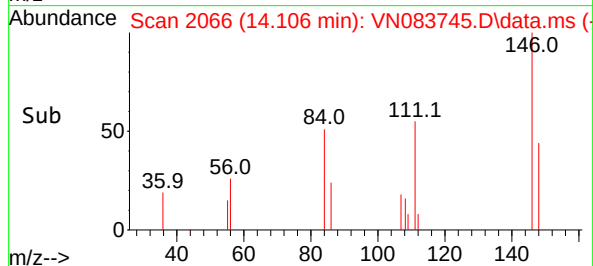
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



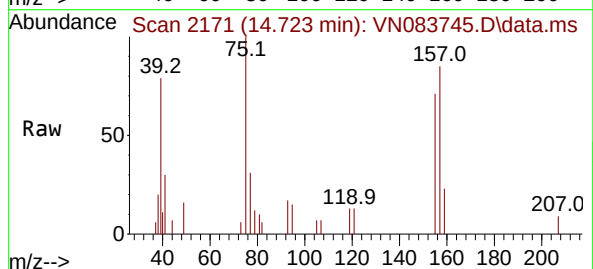
Tgt Ion:146 Resp: 32924
Ion Ratio Lower Upper
146 100
111 47.0 22.8 68.3
148 65.5 32.1 96.5

Manual Integrations
APPROVED

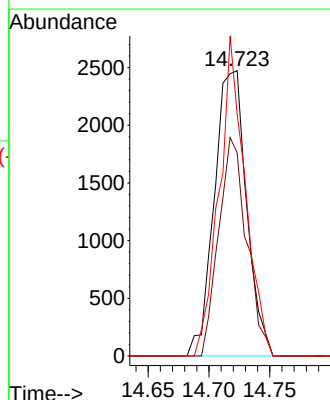
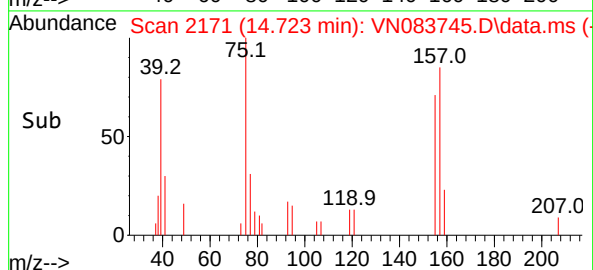
Reviewed By :John Carbone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

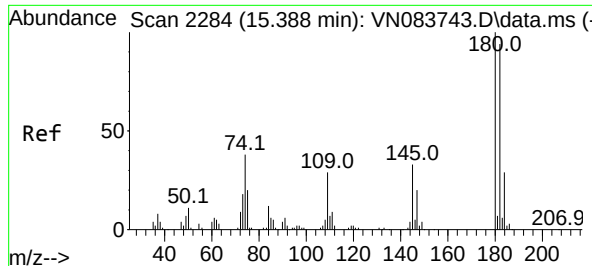


#92
1,2-Dibromo-3-Chloropropane
Concen: 9.434 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20



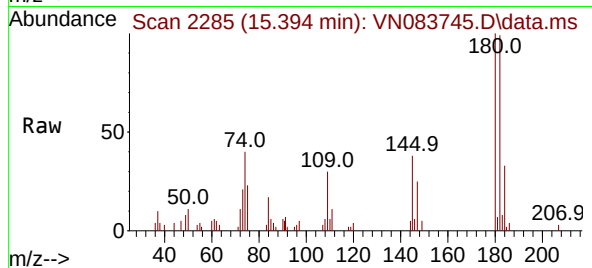
Tgt Ion: 75 Resp: 4562
Ion Ratio Lower Upper
75 100
155 66.5 35.9 107.7
157 90.3 47.5 142.5





#93
1,2,4-Trichlorobenzene
Concen: 9.314 ug/l
RT: 15.394 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

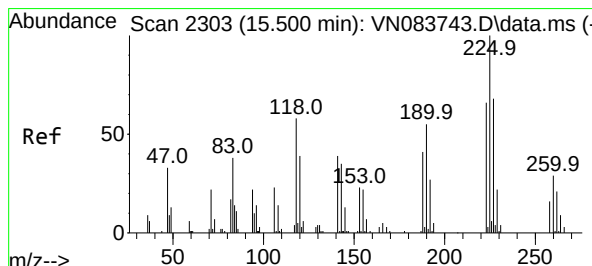
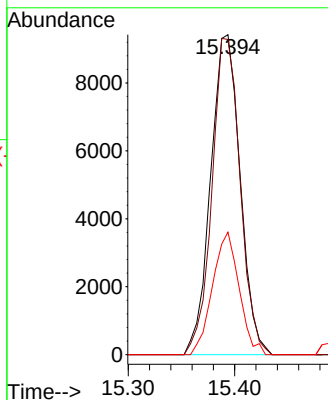
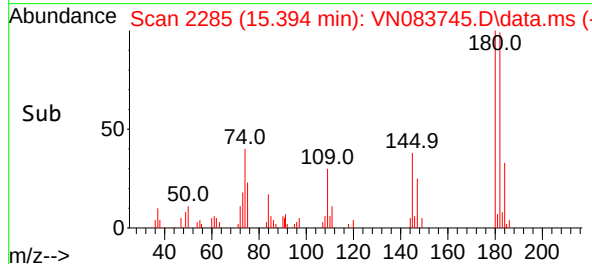
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010



Tgt Ion:180 Resp: 1809
Ion Ratio Lower Upper
180 100
182 94.4 48.1 144.3
145 34.6 16.9 50.7

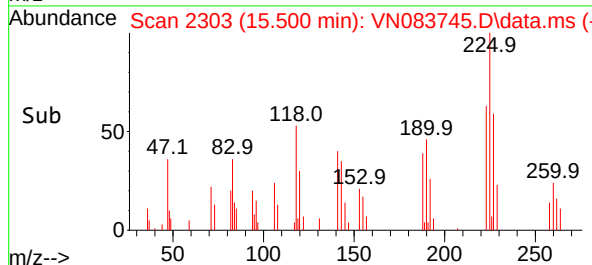
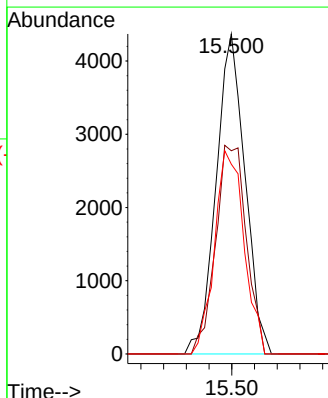
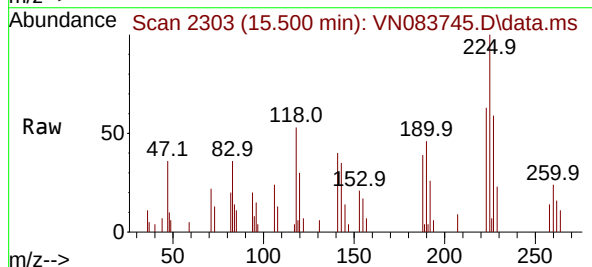
Manual Integrations
APPROVED

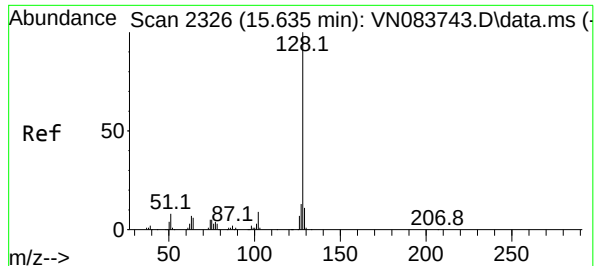
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#94
Hexachlorobutadiene
Concen: 9.355 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

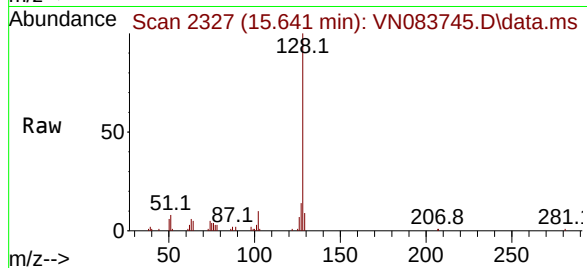
Tgt Ion:225 Resp: 7717
Ion Ratio Lower Upper
225 100
223 69.3 31.9 95.5
227 64.7 32.0 96.2





#95
Naphthalene
Concen: 9.368 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

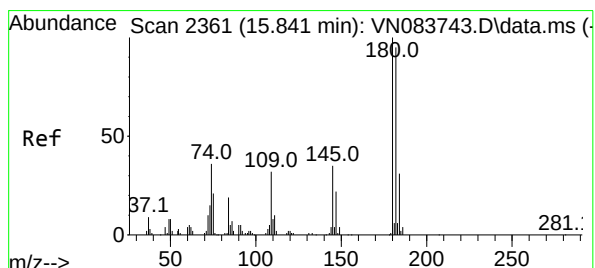
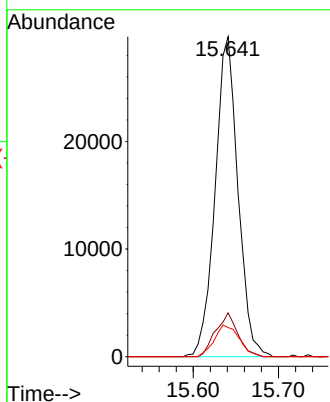
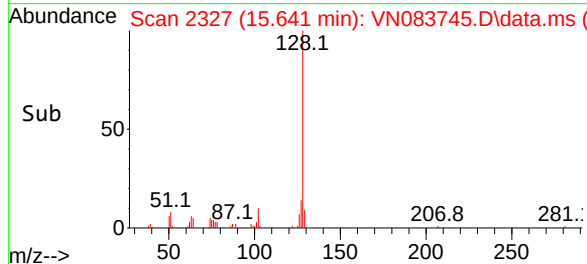
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010



Tgt Ion:128 Resp: 5536
Ion Ratio Lower Upper
128 100
127 13.3 10.2 15.2
129 10.8 8.7 13.1

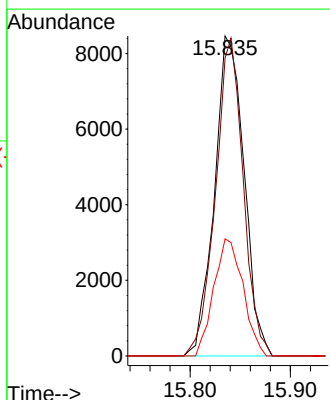
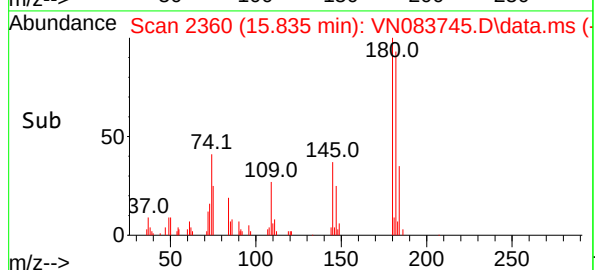
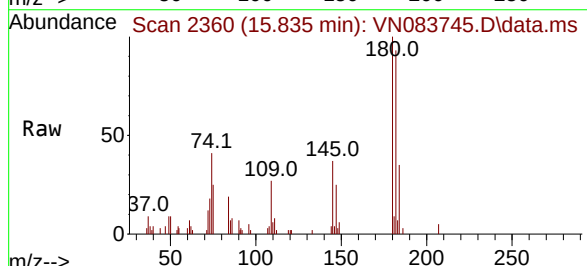
Manual Integrations
APPROVED

Reviewed By :John Carbone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#96
1,2,3-Trichlorobenzene
Concen: 9.345 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:180 Resp: 17348
Ion Ratio Lower Upper
180 100
182 93.0 47.1 141.4
145 36.1 17.8 53.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
 Data File : VN083746.D
 Acq On : 10 Sep 2024 10:44
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/11/2024
 Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:56:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 01:38:19 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	160063	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	280097	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	235735	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	107014	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	9581	3.970	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	7.940%#		
35) Dibromofluoromethane	8.159	113	7953	4.435	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	8.880%#		
50) Toluene-d8	10.565	98	21320	3.439	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	6.880%#		
62) 4-Bromofluorobenzene	12.847	95	10808	4.226	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	8.460%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	8818	4.744	ug/l	92
3) Chloromethane	2.359	50	10519	3.837	ug/l	99
4) Vinyl Chloride	2.518	62	9914	4.866	ug/l	97
5) Bromomethane	2.900	94	6285	5.372	ug/l #	76
6) Chloroethane	3.059	64	7426	5.254	ug/l	99
7) Trichlorofluoromethane	3.465	101	17145	4.957	ug/l	100
8) Diethyl Ether	3.953	74	5929	5.114	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.347	101	9276	5.060	ug/l	99
10) Methyl Iodide	4.577	142	11474	4.921	ug/l	92
11) Tert butyl alcohol	5.536	59	8809m	27.256	ug/l	
12) 1,1-Dichloroethene	4.324	96	8914	5.149	ug/l #	78
13) Acrolein	4.177	56	8866	27.803	ug/l	100
14) Allyl chloride	5.012	41	14620	4.739	ug/l	95
15) Acrylonitrile	5.718	53	22170	25.224	ug/l	97
16) Acetone	4.436	43	22641	23.401	ug/l	97
17) Carbon Disulfide	4.694	76	23486	4.850	ug/l #	90
18) Methyl Acetate	5.030	43	12028	4.269	ug/l #	52
19) Methyl tert-butyl Ether	5.794	73	30995	4.948	ug/l	96
20) Methylene Chloride	5.271	84	9932	5.016	ug/l	97
21) trans-1,2-Dichloroethene	5.771	96	9883	5.327	ug/l	89
22) Diisopropyl ether	6.671	45	31379	4.941	ug/l #	94
23) Vinyl Acetate	6.600	43	111530	23.983	ug/l	96
24) 1,1-Dichloroethane	6.559	63	18651	5.098	ug/l	97
25) 2-Butanone	7.488	43	30455	23.949	ug/l	98
26) 2,2-Dichloropropane	7.482	77	15899	4.719	ug/l	98
27) cis-1,2-Dichloroethene	7.482	96	10345	4.697	ug/l	93
28) Bromochloromethane	7.812	49	8604	5.585	ug/l #	93
29) Tetrahydrofuran	7.835	42	18481	24.578	ug/l	97
30) Chloroform	7.965	83	19593	5.044	ug/l #	82
31) Cyclohexane	8.253	56	19910	5.708	ug/l	95
32) 1,1,1-Trichloroethane	8.171	97	18099	5.068	ug/l #	88
36) 1,1-Dichloropropene	8.371	75	13233	4.903	ug/l	99
37) Ethyl Acetate	7.559	43	12012	4.903	ug/l	97
38) Carbon Tetrachloride	8.359	117	15245	4.979	ug/l	98
39) Methylcyclohexane	9.600	83	14125	4.598	ug/l	87
40) Benzene	8.600	78	38828	4.780	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
 Data File : VN083746.D
 Acq On : 10 Sep 2024 10:44
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:56:38 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M

Quant Title : SW846 8260

QLast Update : Wed Sep 11 01:38:19 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.782	41	6706	4.628	ug/l	93
42) 1,2-Dichloroethane	8.665	62	14954	4.926	ug/l	98
43) Isopropyl Acetate	8.688	43	21656	4.878	ug/l	98
44) Trichloroethene	9.353	130	8567	4.554	ug/l	97
45) 1,2-Dichloropropane	9.623	63	9662	4.921	ug/l	95
46) Dibromomethane	9.706	93	6877	5.001	ug/l	99
47) Bromodichloromethane	9.888	83	14350	4.821	ug/l	98
48) Methyl methacrylate	9.682	41	10187	4.837	ug/l	97
49) 1,4-Dioxane	9.700	88	3281	94.692	ug/l #	96
51) 4-Methyl-2-Pentanone	10.447	43	58309	24.128	ug/l	98
52) Toluene	10.629	92	24590	4.949	ug/l	95
53) t-1,3-Dichloropropene	10.835	75	14280	4.733	ug/l	98
54) cis-1,3-Dichloropropene	10.306	75	14921	4.709	ug/l	94
55) 1,1,2-Trichloroethane	11.018	97	9040	4.873	ug/l	97
56) Ethyl methacrylate	10.870	69	13310	4.664	ug/l	97
57) 1,3-Dichloropropane	11.165	76	16337	5.124	ug/l	96
58) 2-Chloroethyl Vinyl ether	10.159	63	24698	24.016	ug/l	99
59) 2-Hexanone	11.194	43	43752	24.475	ug/l	95
60) Dibromochloromethane	11.353	129	9573	4.611	ug/l	99
61) 1,2-Dibromoethane	11.470	107	8641	4.671	ug/l	98
64) Tetrachloroethene	11.100	164	8021	5.116	ug/l	85
65) Chlorobenzene	11.888	112	26054	4.973	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.959	131	8646	4.760	ug/l	94
67) Ethyl Benzene	11.965	91	44539	4.785	ug/l	97
68) m/p-Xylenes	12.070	106	32437	9.387	ug/l	99
69) o-Xylene	12.400	106	15741	4.706	ug/l	96
70) Styrene	12.412	104	25276	4.604	ug/l	96
71) Bromoform	12.576	173	6062	4.953	ug/l #	98
73) Isopropylbenzene	12.694	105	40756	4.923	ug/l	95
74) N-amyl acetate	12.494	43	17318	4.903	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	12643	5.197	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	11052m	5.118	ug/l	
77) Bromobenzene	12.976	156	10137	5.087	ug/l	97
78) n-propylbenzene	13.035	91	46229	4.799	ug/l	100
79) 2-Chlorotoluene	13.123	91	30899	5.030	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	33407	4.786	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	4486	5.441	ug/l	92
82) 4-Chlorotoluene	13.217	91	31603	5.126	ug/l	99
83) tert-Butylbenzene	13.435	119	29174	4.777	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	34076	4.860	ug/l	97
85) sec-Butylbenzene	13.617	105	39964	4.934	ug/l	97
86) p-Isopropyltoluene	13.729	119	33478	4.931	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	19101	5.079	ug/l	96
88) 1,4-Dichlorobenzene	13.811	146	19522	5.126	ug/l	96
89) n-Butylbenzene	14.053	91	28757	4.718	ug/l	99
90) Hexachloroethane	14.335	117	6701	4.910	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	18983	5.230	ug/l	95
92) 1,2-Dibromo-3-Chloropr...	14.723	75	2490	5.135	ug/l	91
93) 1,2,4-Trichlorobenzene	15.394	180	9707	4.983	ug/l	98
94) Hexachlorobutadiene	15.500	225	3988	4.821	ug/l	93
95) Naphthalene	15.641	128	29769	5.023	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	9363	5.030	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083746.D
Acq On : 10 Sep 2024 10:44
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:56:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

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

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

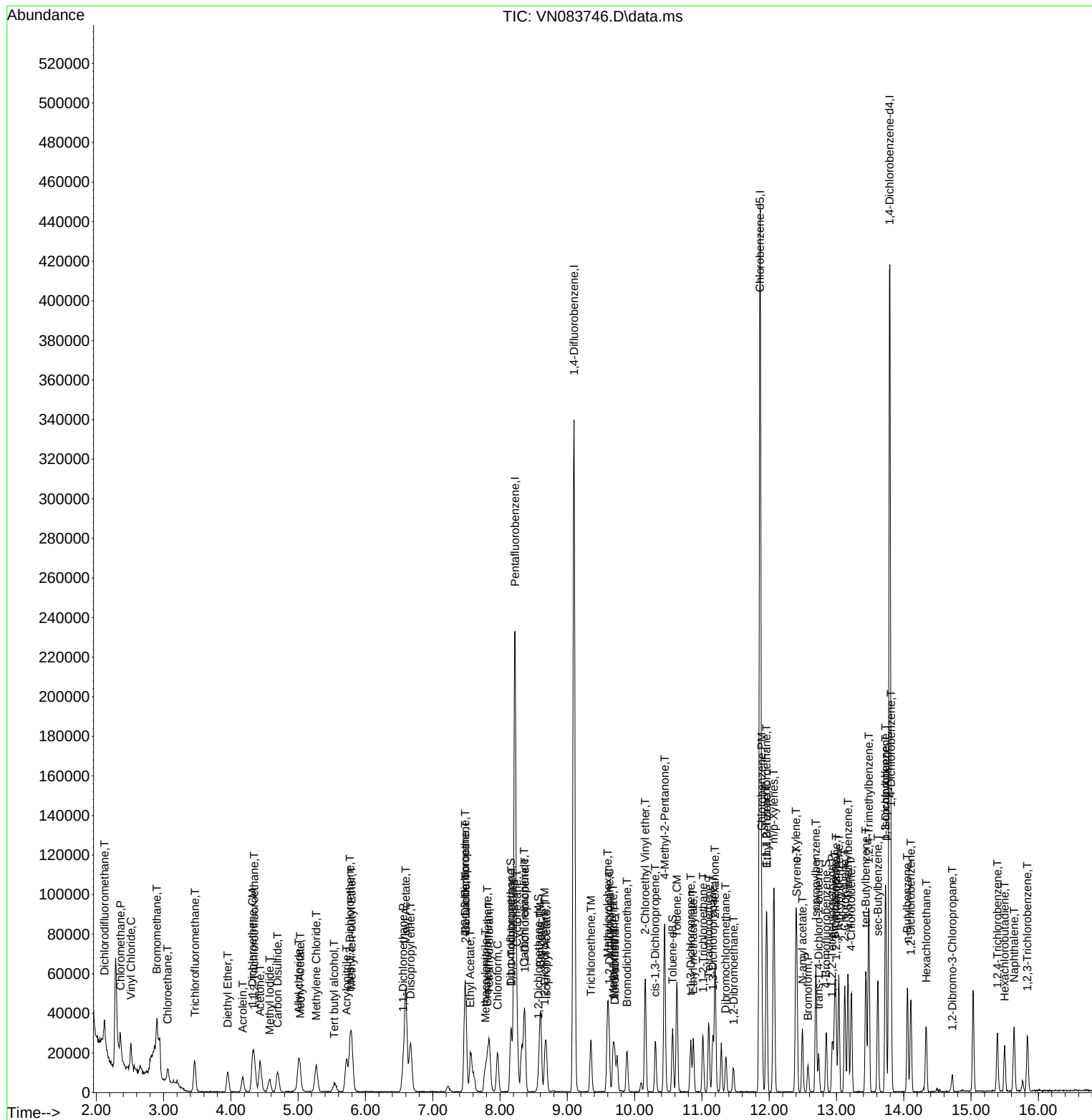
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Data File : VN083746.D
Acq On : 10 Sep 2024 10:44
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

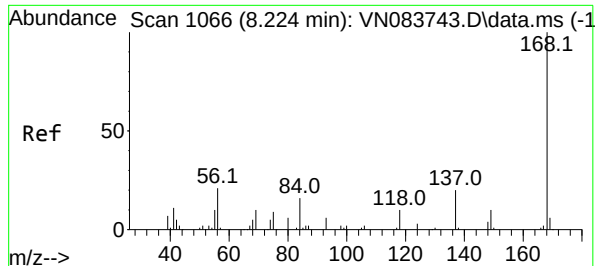
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

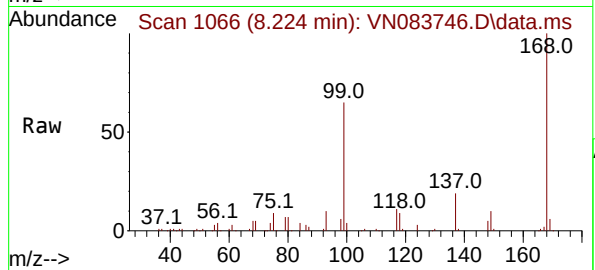
Quant Time: Sep 11 01:56:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

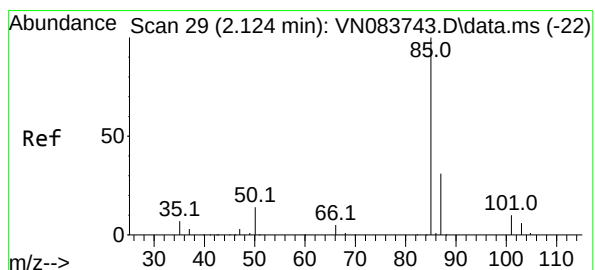
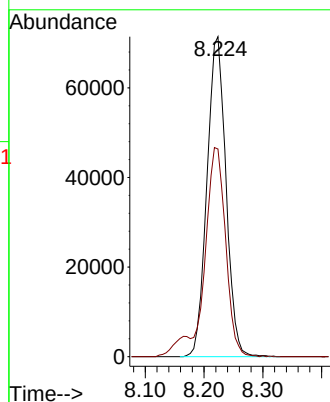
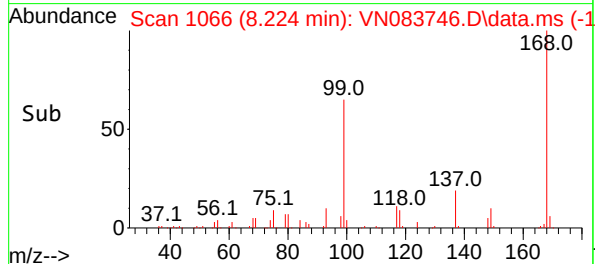
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion:168 Resp: 160063
Ion Ratio Lower Upper
168 100
99 64.9 54.2 81.2

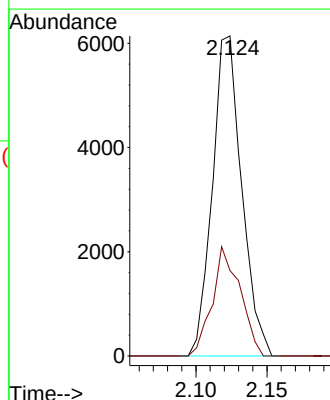
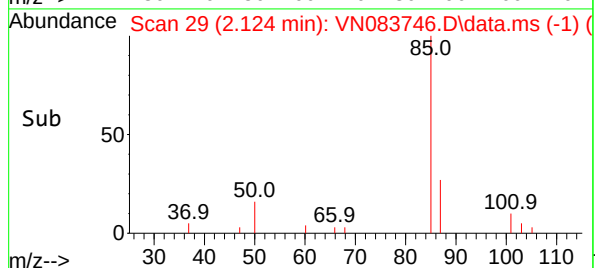
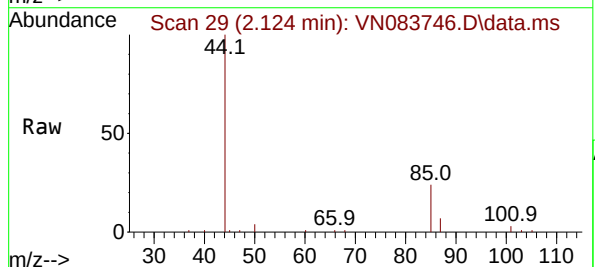
Manual Integrations
APPROVED

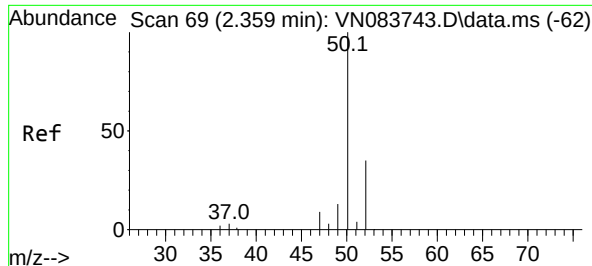
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#2
Dichlorodifluoromethane
Concen: 4.744 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 85 Resp: 8818
Ion Ratio Lower Upper
85 100
87 26.7 15.7 47.0





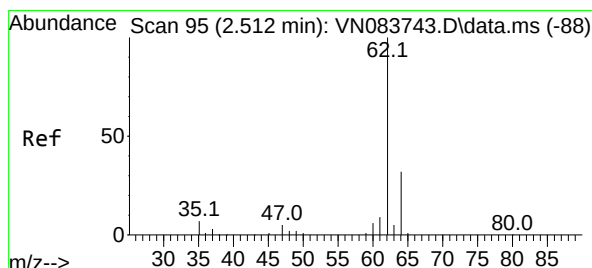
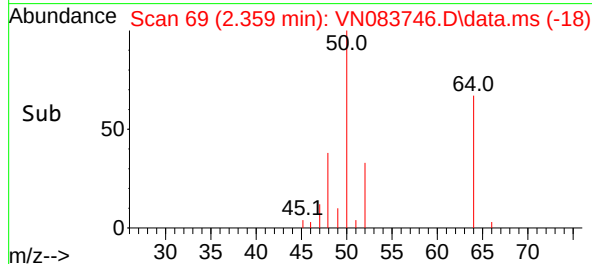
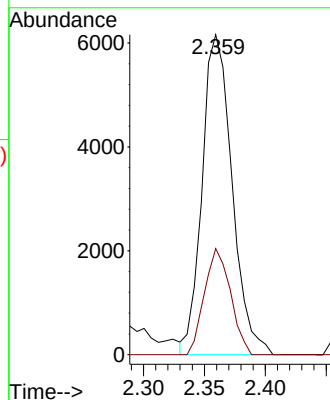
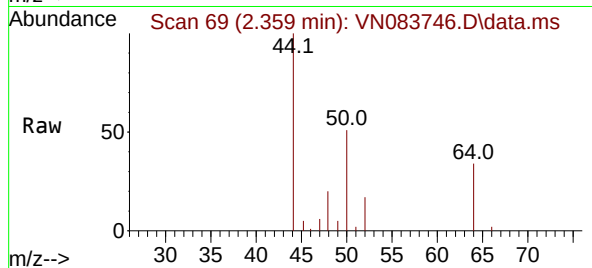
#3
Chloromethane
Concen: 3.837 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 10519
Ion Ratio Lower Upper
50 100
52 33.1 27.2 40.8

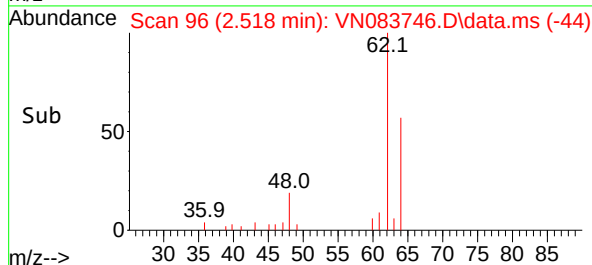
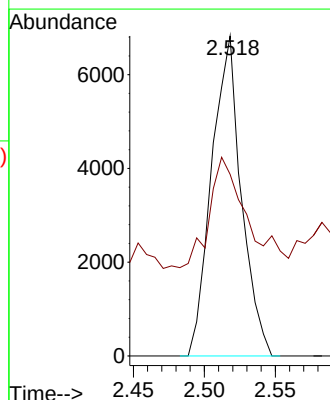
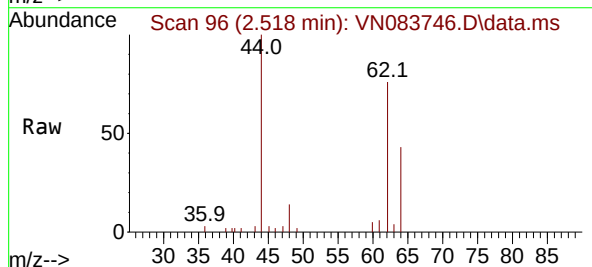
Manual Integrations
APPROVED

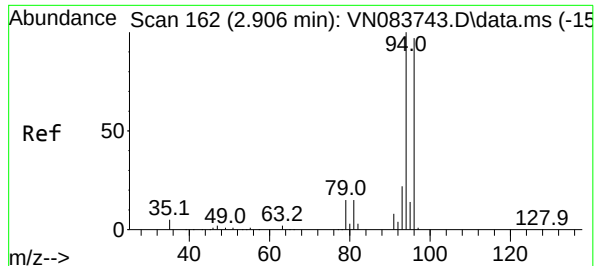
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#4
Vinyl Chloride
Concen: 4.866 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 62 Resp: 9914
Ion Ratio Lower Upper
62 100
64 29.2 24.7 37.1





#5

Bromomethane

Concen: 5.372 ug/l

RT: 2.900 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 94 Resp: 628

Ion Ratio Lower Upper

94 100

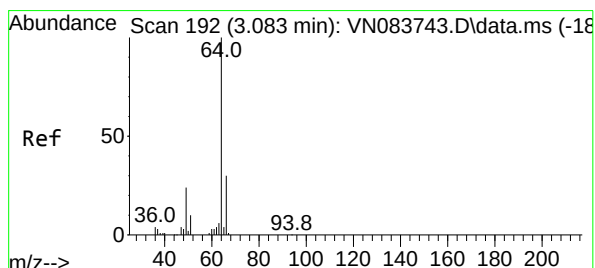
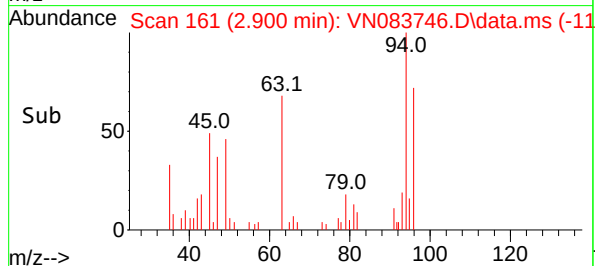
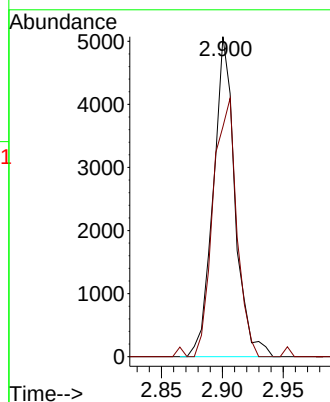
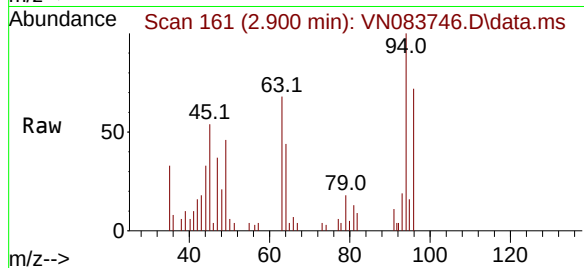
96 71.9 76.0 114.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#6

Chloroethane

Concen: 5.254 ug/l

RT: 3.059 min Scan# 188

Delta R.T. -0.024 min

Lab File: VN083746.D

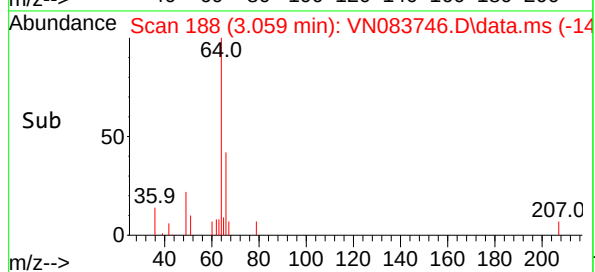
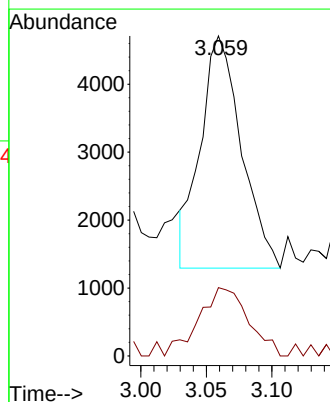
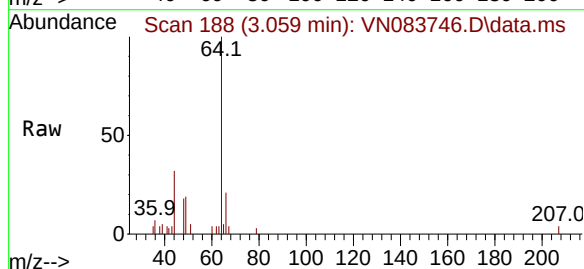
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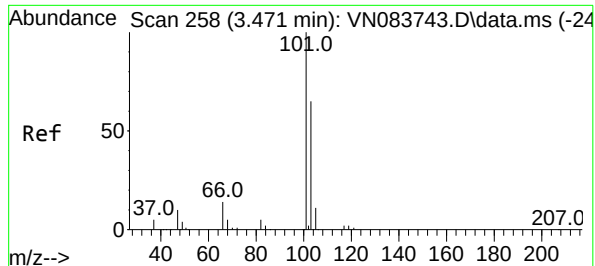
Tgt Ion: 64 Resp: 7426

Ion Ratio Lower Upper

64 100

66 29.4 23.9 35.9





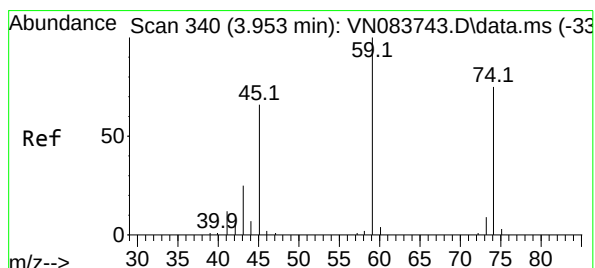
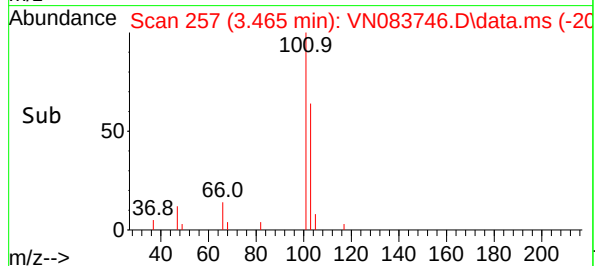
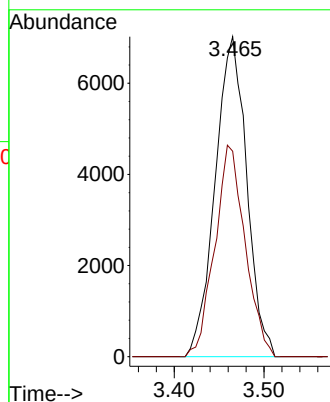
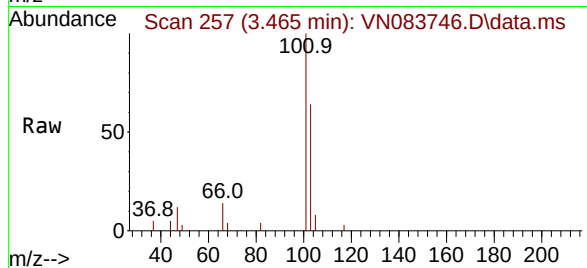
#7
Trichlorofluoromethane
Concen: 4.957 ug/l
RT: 3.465 min Scan# 214
Delta R.T. -0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:101 Resp: 1714
Ion Ratio Lower Upper
101 100
103 64.2 51.4 77.0

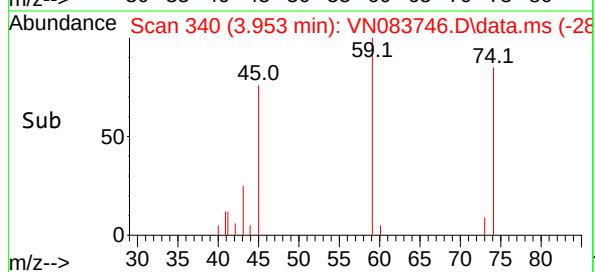
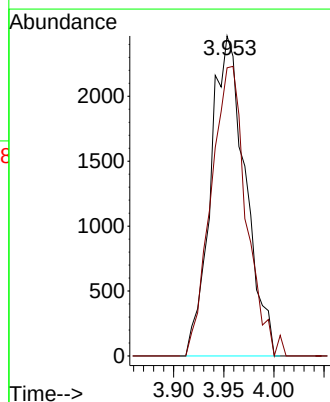
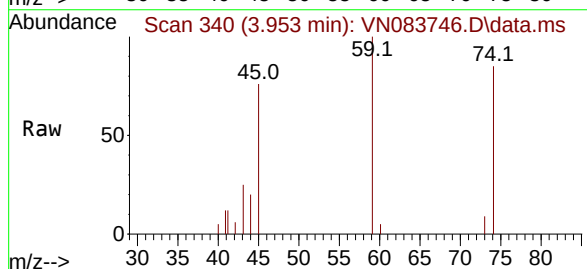
Manual Integrations
APPROVED

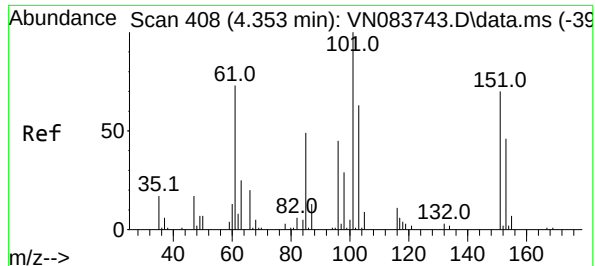
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#8
Diethyl Ether
Concen: 5.114 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 74 Resp: 5929
Ion Ratio Lower Upper
74 100
45 92.0 46.7 140.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.060 ug/l

RT: 4.347 min Scan# 408

Delta R.T. -0.006 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

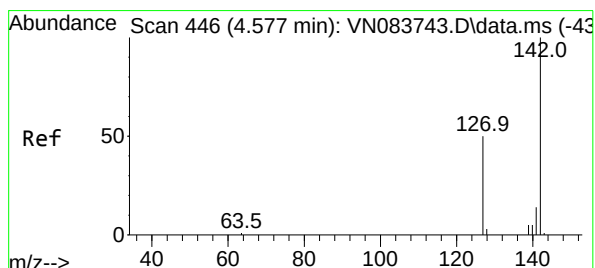
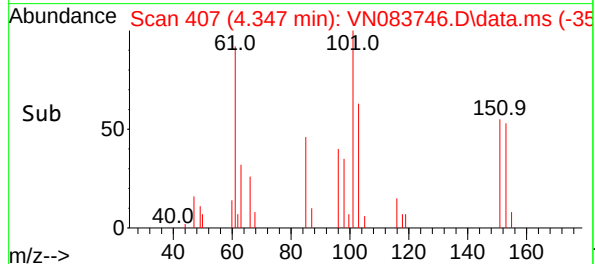
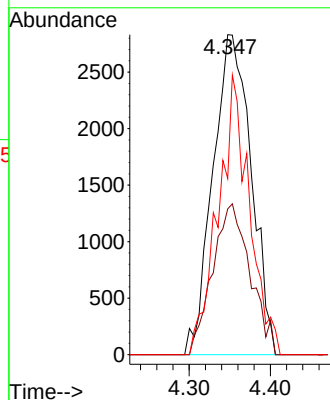
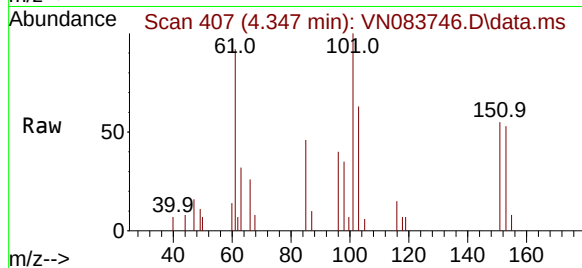
Tgt Ion:	101	Resp:	9270
Ion	Ratio	Lower	Upper
101	100		
85	46.4	36.2	54.4
151	71.0	57.7	86.5

Manual Integrations

APPROVED

Reviewed By :John Carbone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#10

Methyl Iodide

Concen: 4.921 ug/l

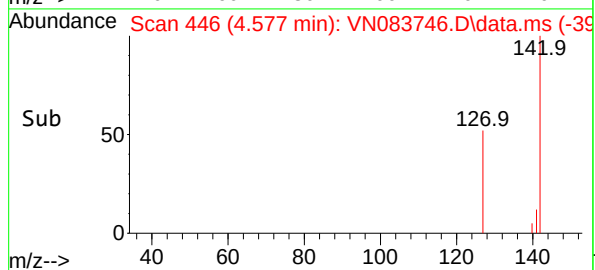
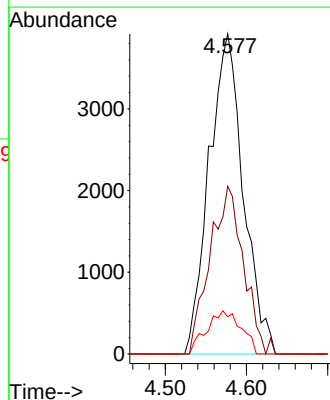
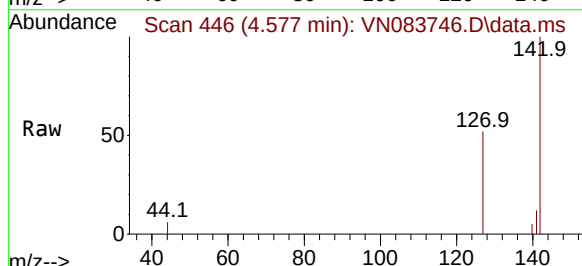
RT: 4.577 min Scan# 446

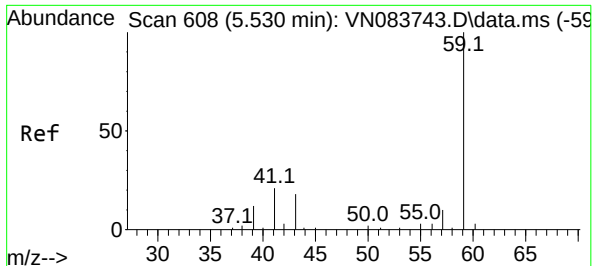
Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Tgt Ion:	142	Resp:	11474
Ion	Ratio	Lower	Upper
142	100		
127	52.4	37.5	56.3
141	11.6	11.0	16.4





#11

Tert butyl alcohol

Concen: 27.256 ug/l m

RT: 5.536 min Scan# 608

Delta R.T. 0.006 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 59 Resp: 8809

Ion Ratio Lower Upper

59 100

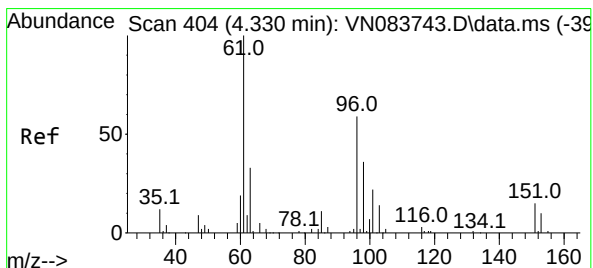
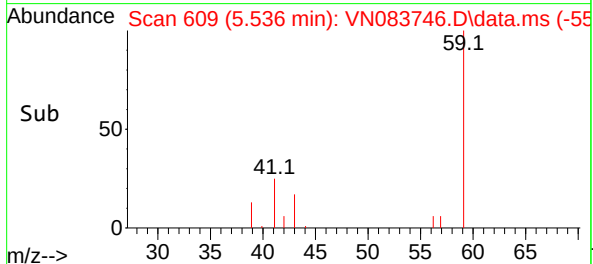
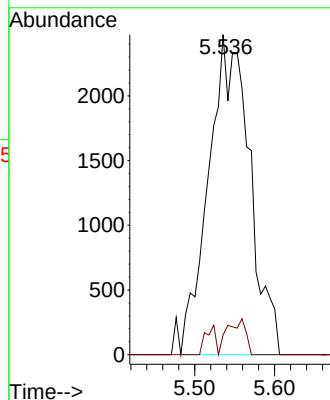
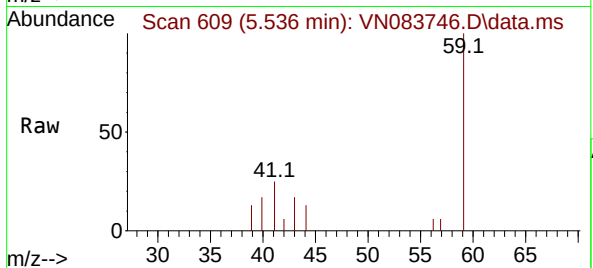
57 2.2 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#12

1,1-Dichloroethene

Concen: 5.149 ug/l

RT: 4.324 min Scan# 403

Delta R.T. -0.006 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

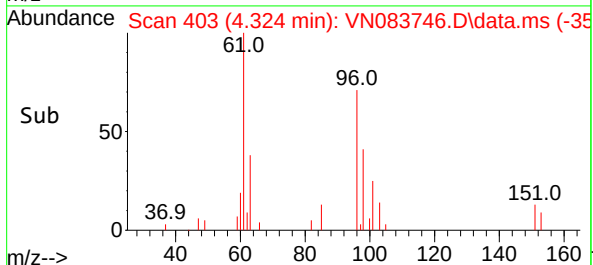
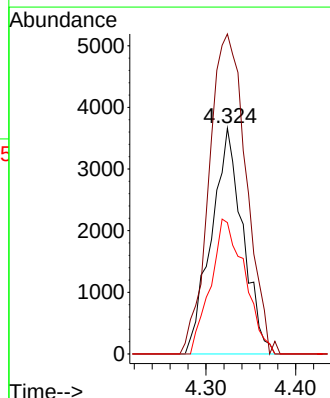
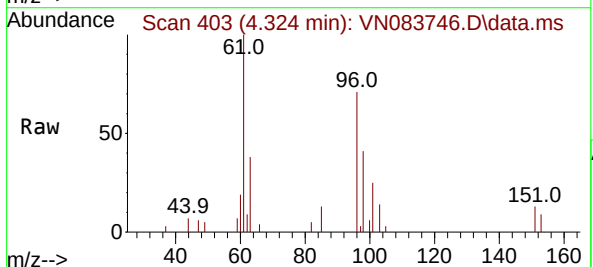
Tgt Ion: 96 Resp: 8914

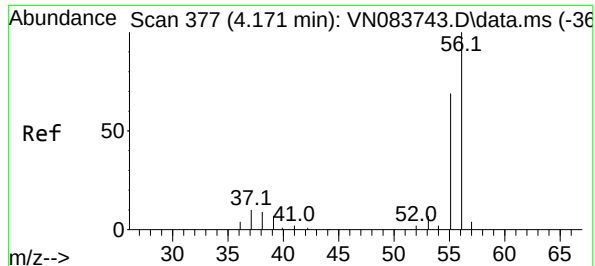
Ion Ratio Lower Upper

96 100

61 141.8 143.4 215.0#

98 58.2 52.7 79.1





#13

Acrolein

Concen: 27.803 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 886

Ion Ratio Lower Upper

56 100

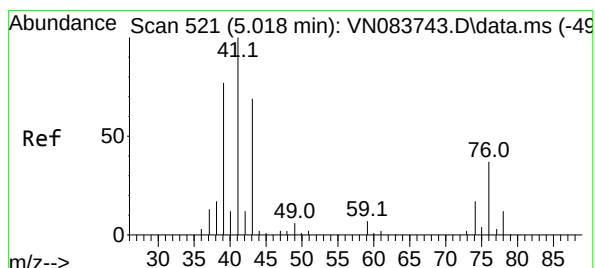
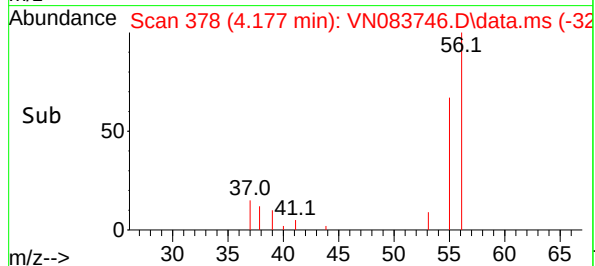
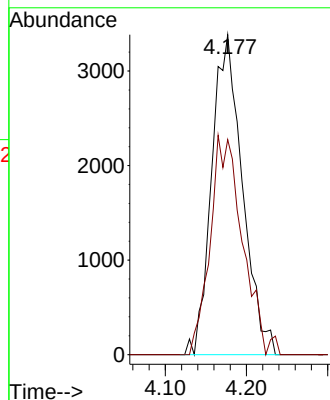
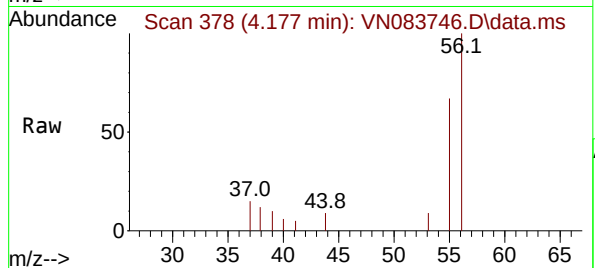
55 72.4 58.2 87.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#14

Allyl chloride

Concen: 4.739 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.006 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

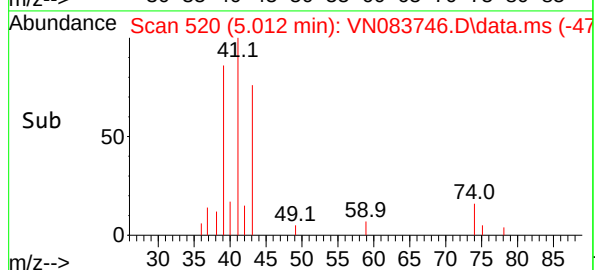
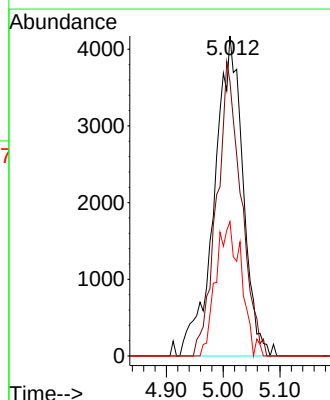
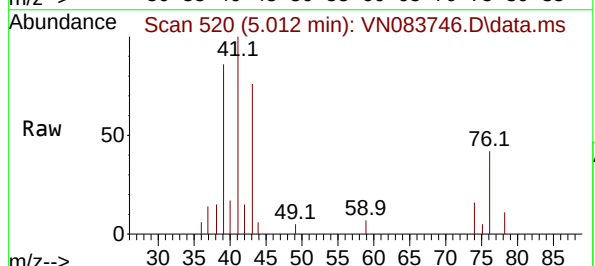
Tgt Ion: 41 Resp: 14620

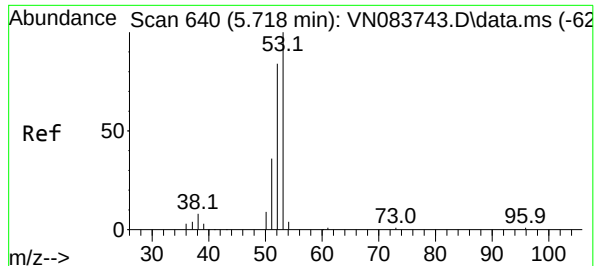
Ion Ratio Lower Upper

41 100

39 78.1 59.3 88.9

76 37.2 27.7 41.5





#15

Acrylonitrile

Concen: 25.224 ug/l

RT: 5.718 min Scan# 640

Delta R.T. -0.000 min MSVOA_N

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

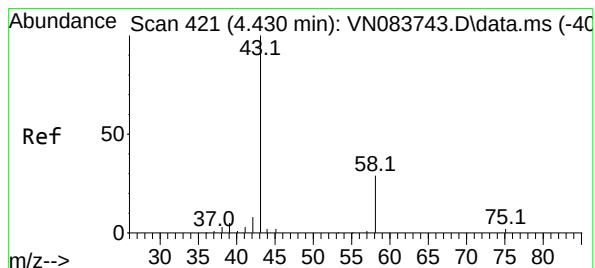
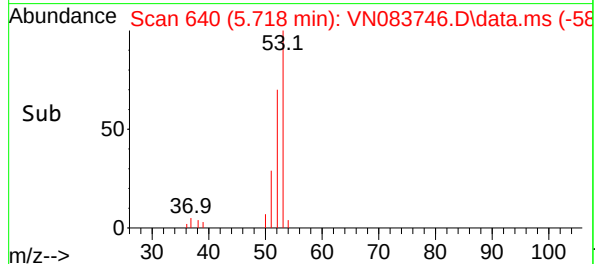
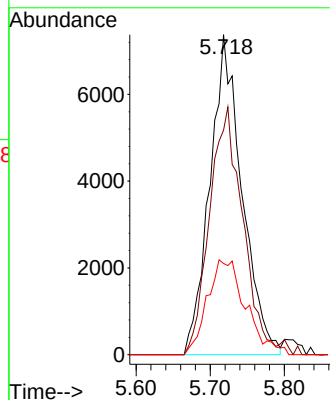
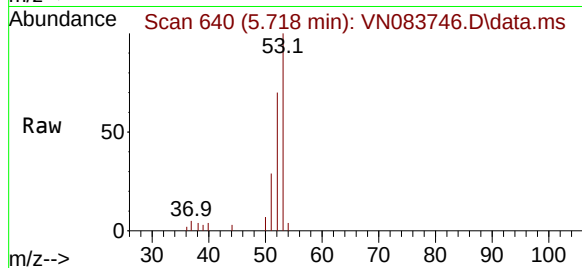
Tgt Ion:	53	Resp:	22170
Ion	Ratio	Lower	Upper
53	100		
52	79.6	66.1	99.1
51	35.5	29.6	44.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#16

Acetone

Concen: 23.401 ug/l

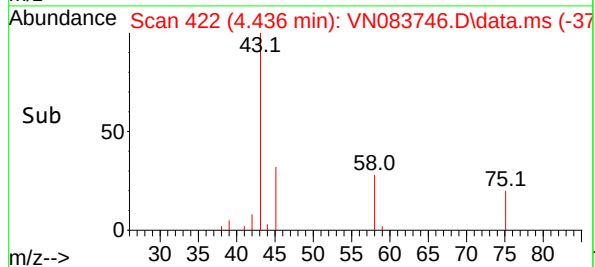
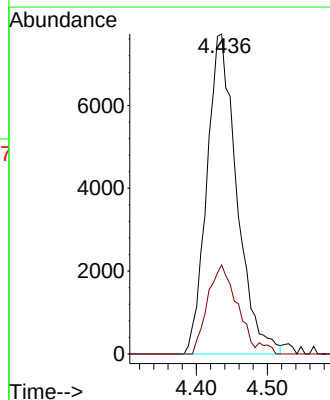
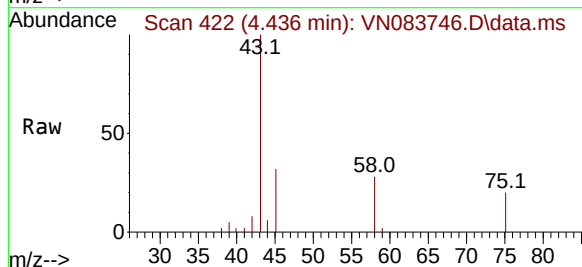
RT: 4.436 min Scan# 422

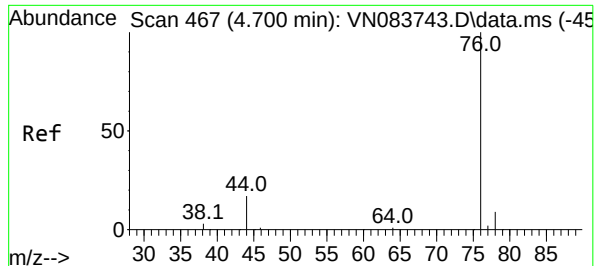
Delta R.T. 0.006 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Tgt Ion:	43	Resp:	22641
Ion	Ratio	Lower	Upper
43	100		
58	27.9	23.7	35.5





#17

Carbon Disulfide

Concen: 4.850 ug/l

RT: 4.694 min Scan# 466

Delta R.T. -0.006 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 23486

Ion Ratio Lower Upper

76 100

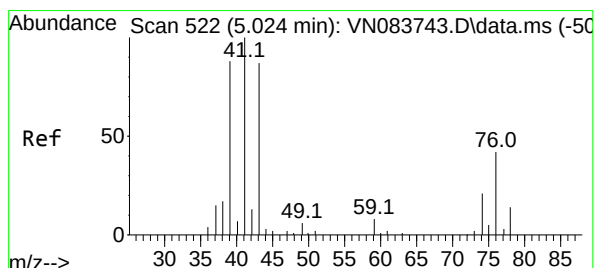
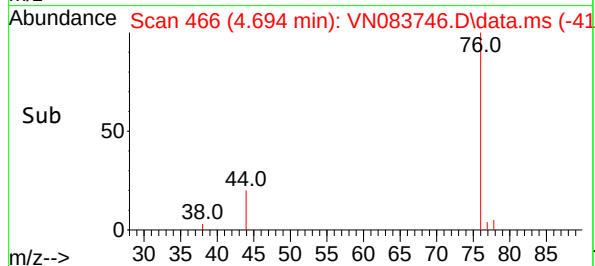
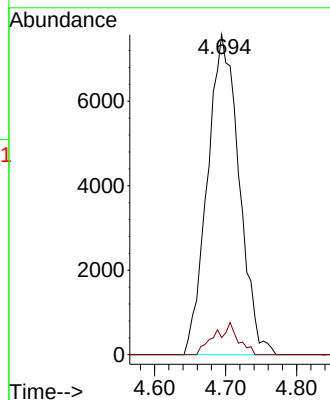
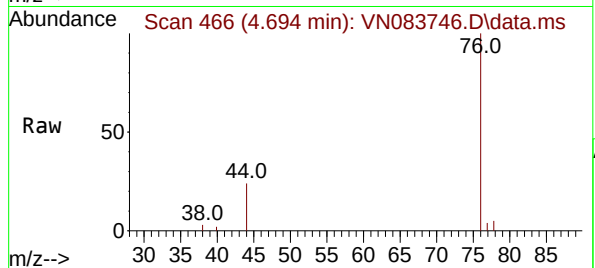
78 5.4 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#18

Methyl Acetate

Concen: 4.269 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.006 min

Lab File: VN083746.D

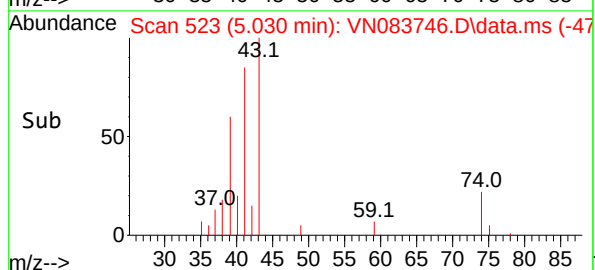
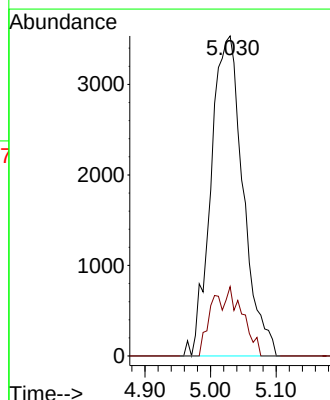
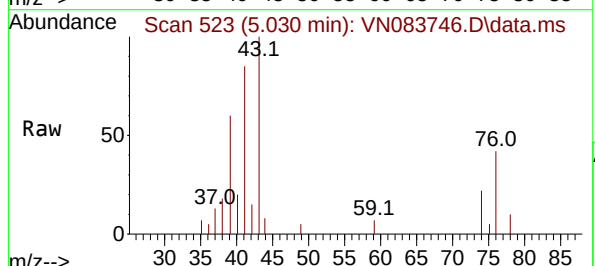
Acq: 10 Sep 2024 10:44

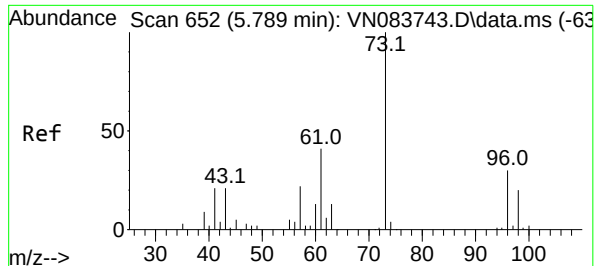
Tgt Ion: 43 Resp: 12028

Ion Ratio Lower Upper

43 100

74 0.0 19.0 28.4





#19

Methyl tert-butyl Ether

Concen: 4.948 ug/l

RT: 5.794 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 73 Resp: 3099

Ion Ratio Lower Upper

73 100

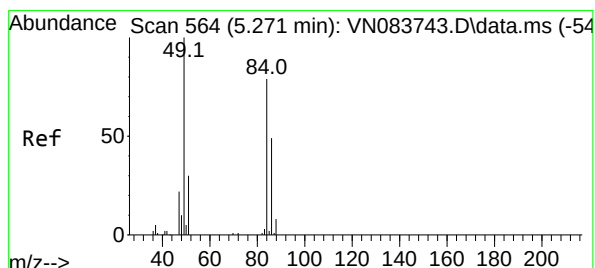
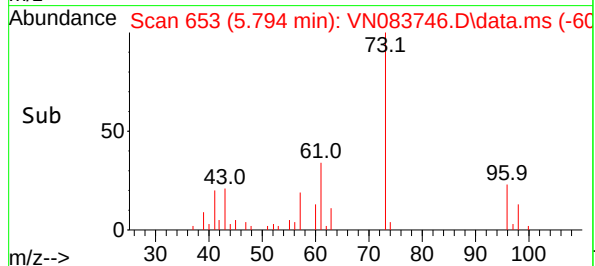
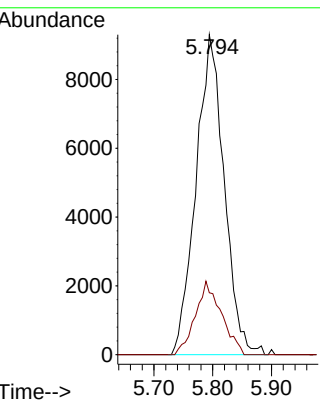
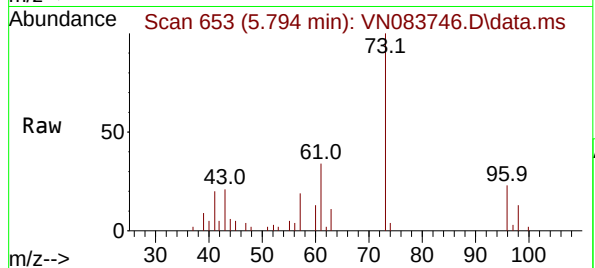
57 19.4 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#20

Methylene Chloride

Concen: 5.016 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Tgt Ion: 84 Resp: 9932

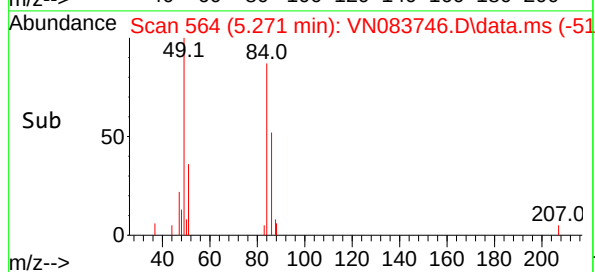
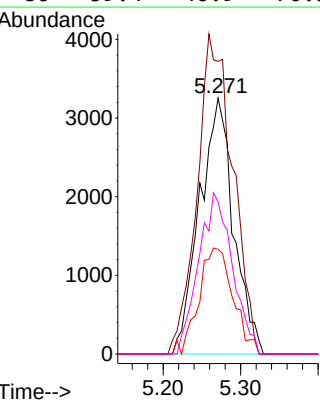
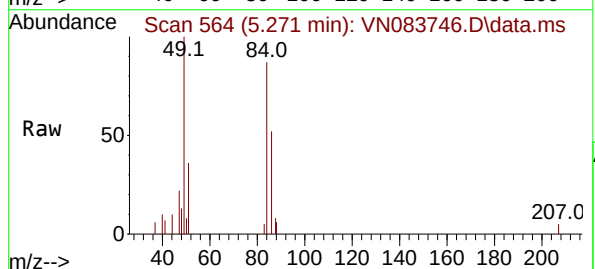
Ion Ratio Lower Upper

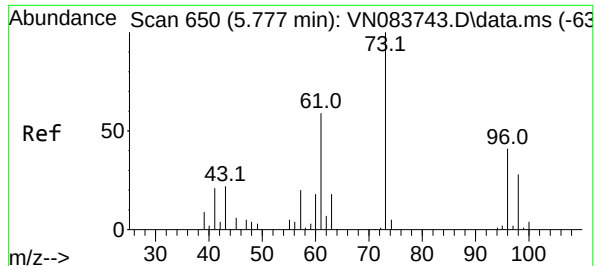
84 100

49 114.3 93.4 140.0

51 40.9 29.2 43.8

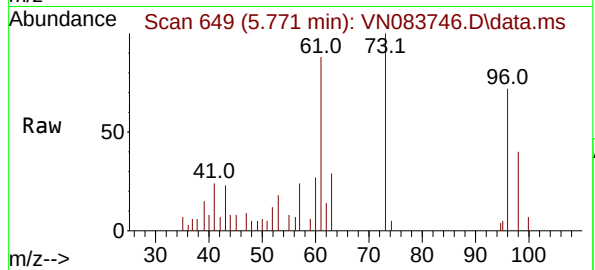
86 59.4 46.9 70.3





#21
trans-1,2-Dichloroethene
Concen: 5.327 ug/l
RT: 5.771 min Scan# 649
Delta R.T. -0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

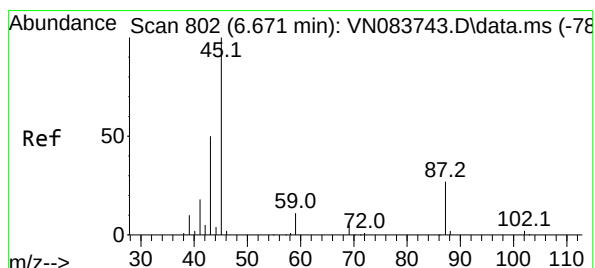
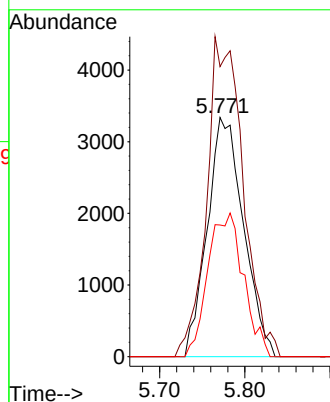
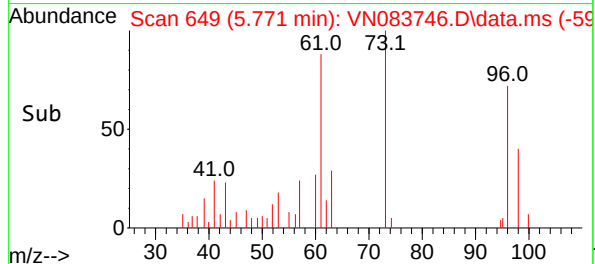
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 96 Resp: 988
Ion Ratio Lower Upper
96 100
61 121.3 106.0 159.0
98 55.0 52.2 78.2

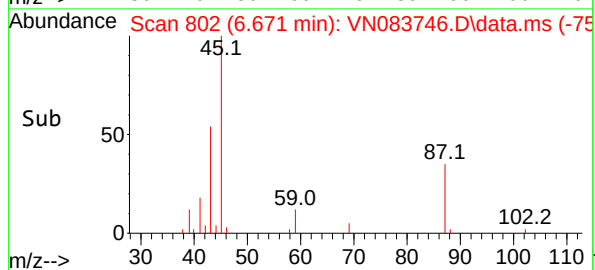
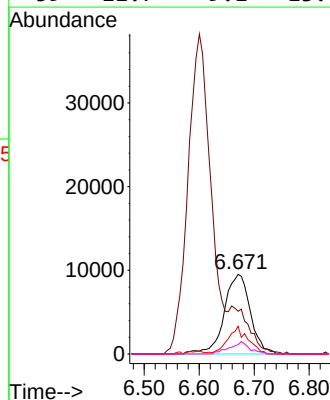
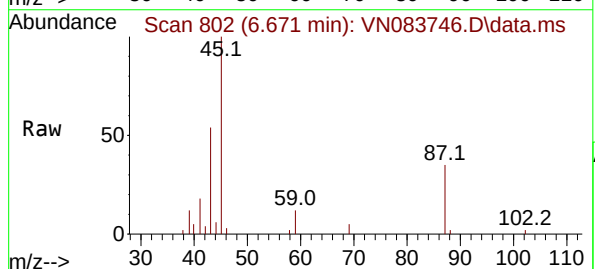
Manual Integrations
APPROVED

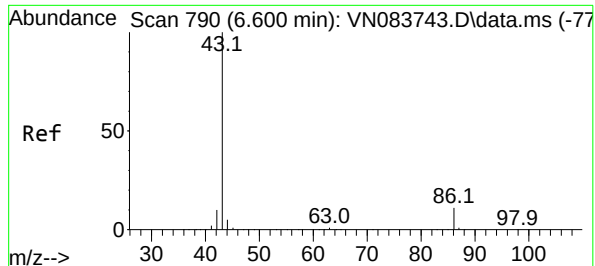
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#22
Diisopropyl ether
Concen: 4.941 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 45 Resp: 31379
Ion Ratio Lower Upper
45 100
43 51.9 43.4 65.0
87 34.7 22.6 33.8#
59 11.7 9.1 13.7





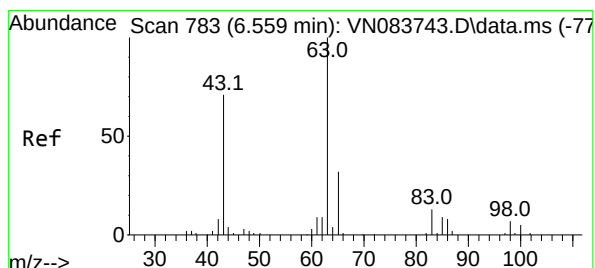
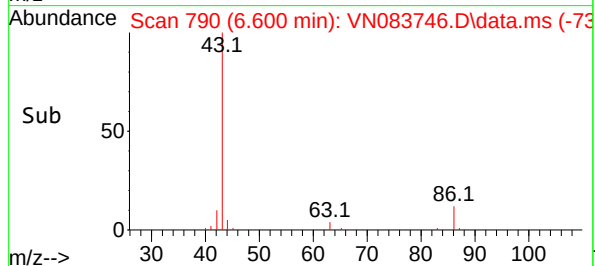
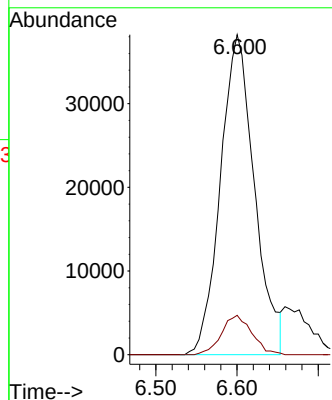
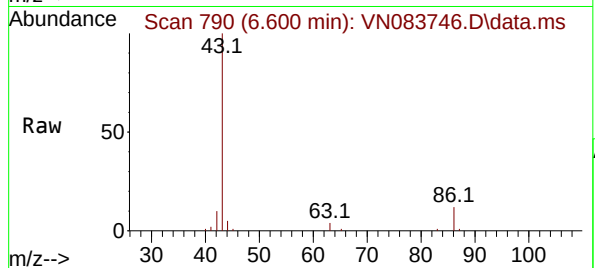
#23
Vinyl Acetate
Concen: 23.983 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 111530
Ion Ratio Lower Upper
43 100
86 12.3 8.7 13.1

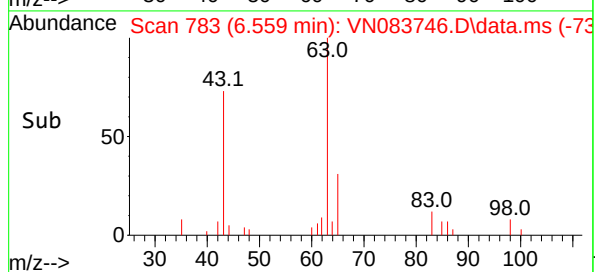
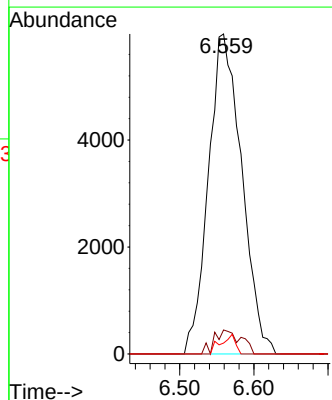
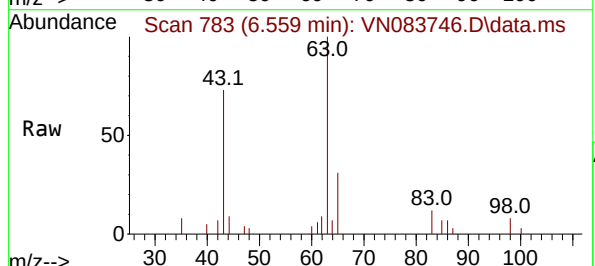
Manual Integrations
APPROVED

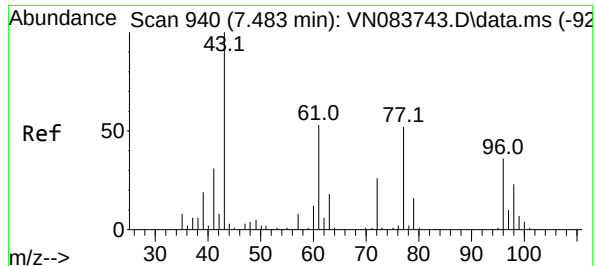
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#24
1,1-Dichloroethane
Concen: 5.098 ug/l
RT: 6.559 min Scan# 783
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 63 Resp: 18651
Ion Ratio Lower Upper
63 100
98 7.5 3.5 10.4
100 3.4 2.5 7.5





#25

2-Butanone

Concen: 23.949 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 3045

Ion Ratio Lower Upper

43 100

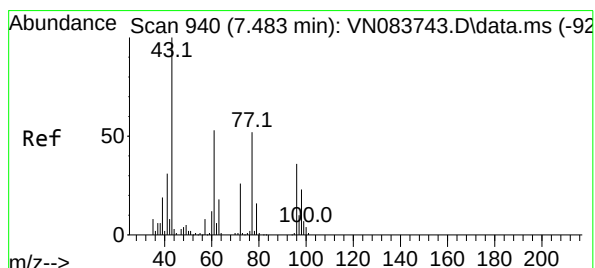
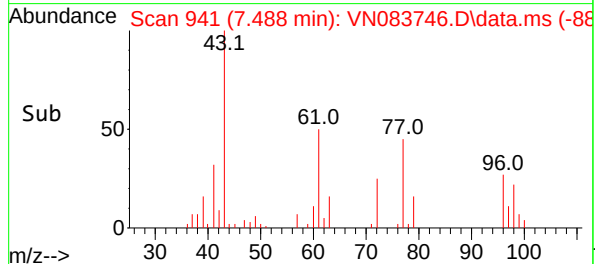
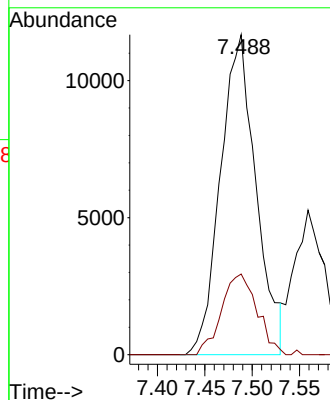
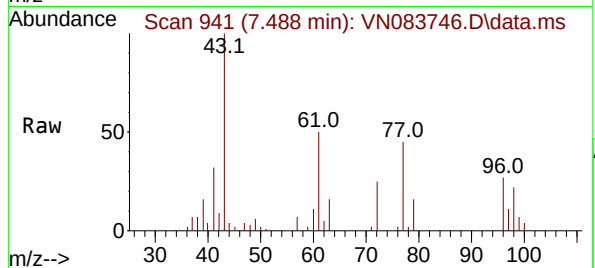
72 25.2 20.8 31.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#26

2,2-Dichloropropane

Concen: 4.719 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN083746.D

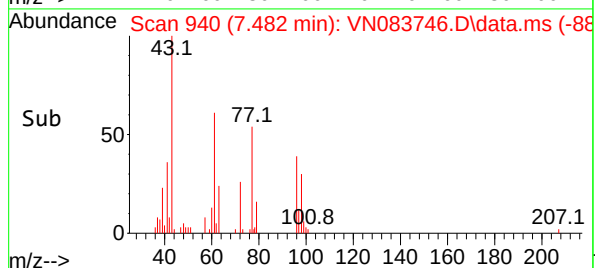
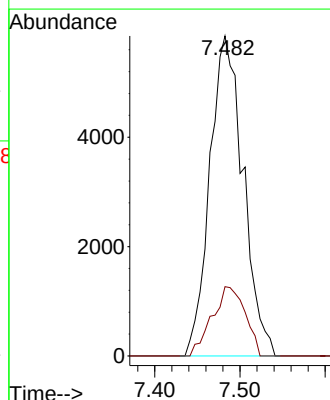
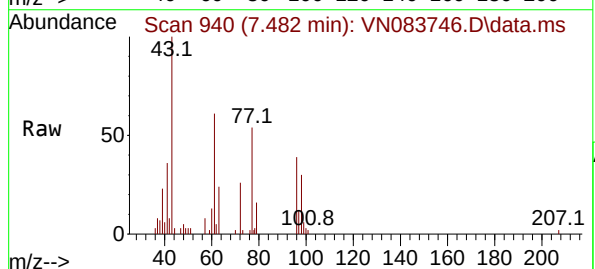
Acq: 10 Sep 2024 10:44

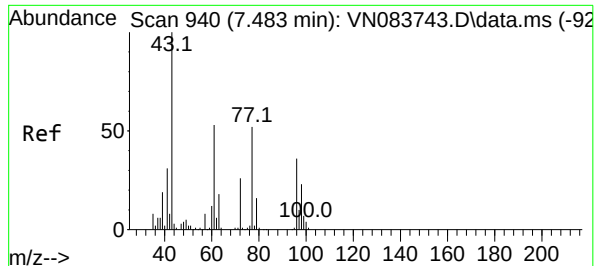
Tgt Ion: 77 Resp: 15899

Ion Ratio Lower Upper

77 100

97 21.4 10.2 30.4





#27

cis-1,2-Dichloroethene

Concen: 4.697 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

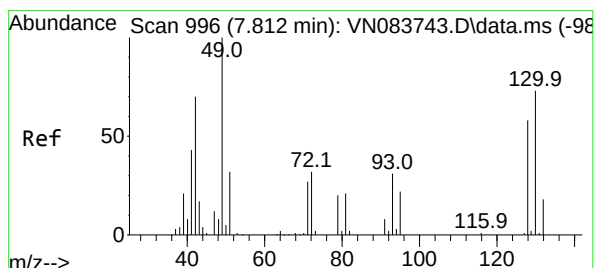
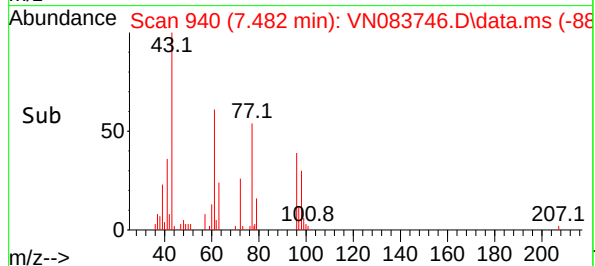
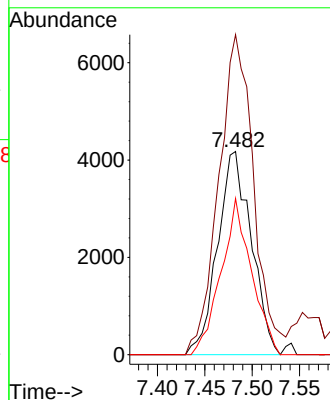
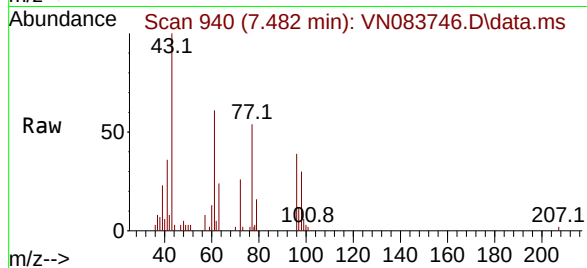
Tgt Ion:	96	Resp:	1034
Ion	Ratio	Lower	Upper
96	100		
61	162.9	0.0	306.2
98	69.6	0.0	128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#28

Bromochloromethane

Concen: 5.585 ug/l

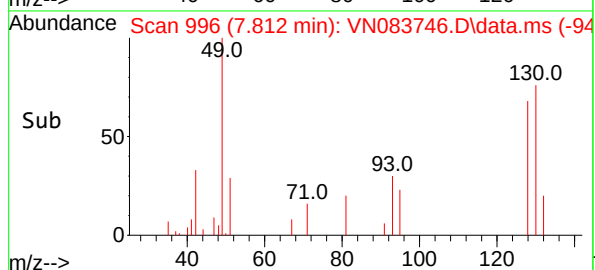
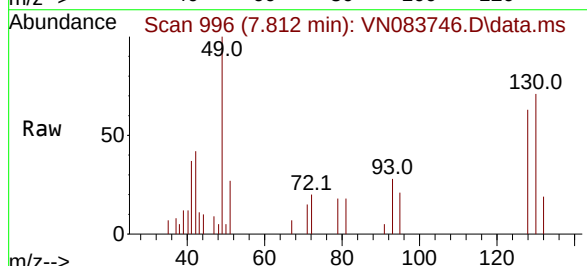
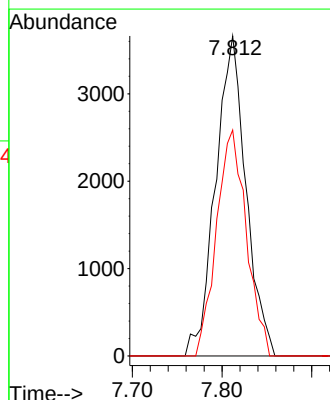
RT: 7.812 min Scan# 996

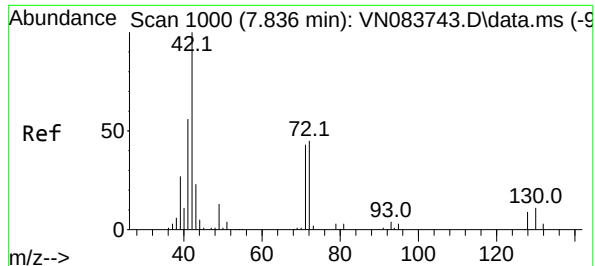
Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Tgt Ion:	49	Resp:	8604
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.4
130	69.3	60.2	90.2





#29

Tetrahydrofuran

Concen: 24.578 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

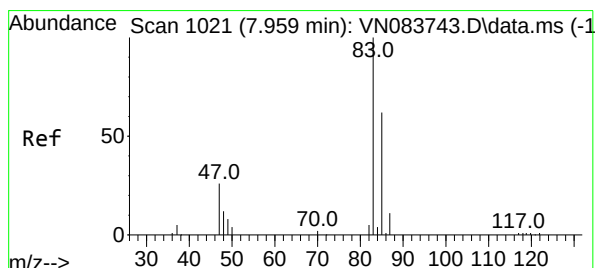
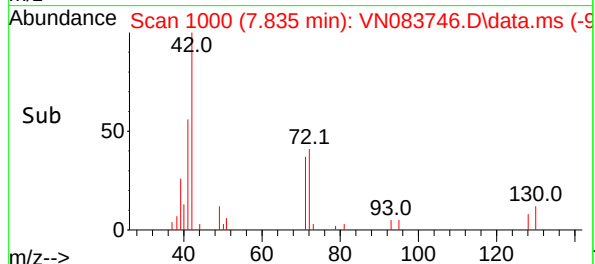
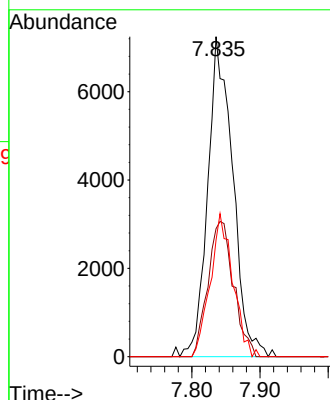
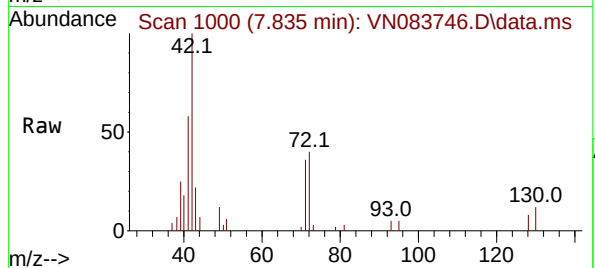
Tgt Ion:	42	Resp:	1848
Ion	Ratio	Lower	Upper
42	100		
72	43.2	35.9	53.9
71	40.5	33.9	50.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#30

Chloroform

Concen: 5.044 ug/l

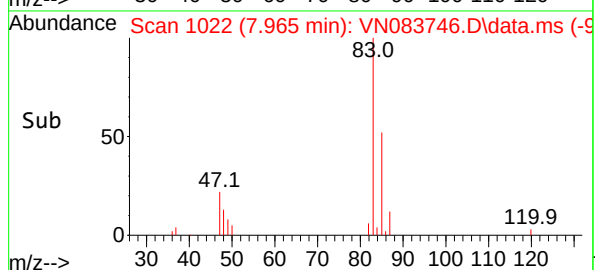
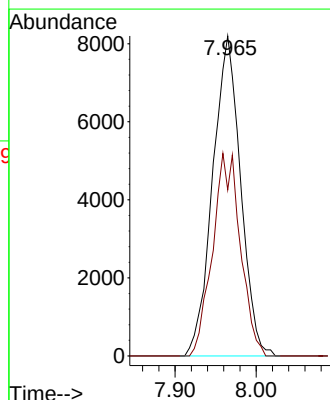
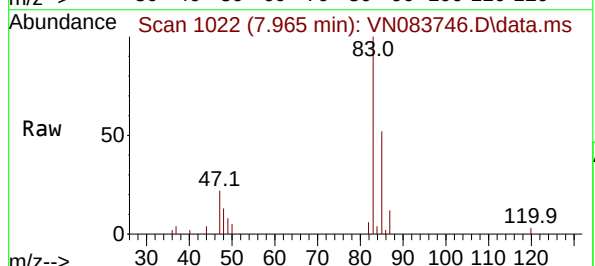
RT: 7.965 min Scan# 1022

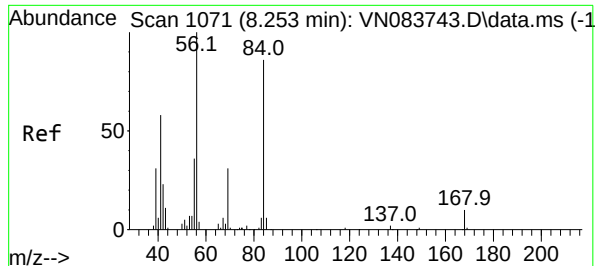
Delta R.T. 0.006 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Tgt Ion:	83	Resp:	19593
Ion	Ratio	Lower	Upper
83	100		
85	51.9	52.8	79.2





#31

Cyclohexane

Concen: 5.708 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

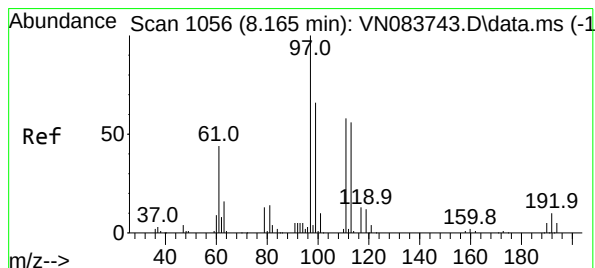
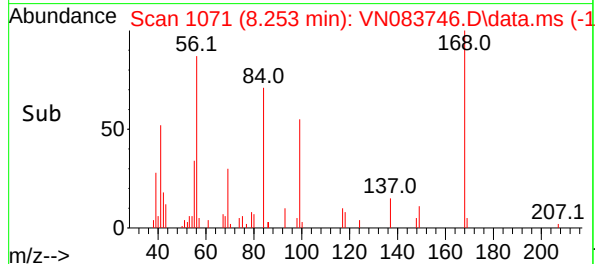
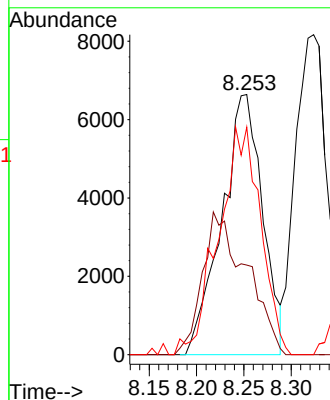
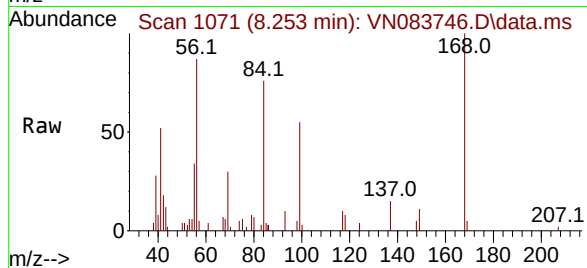
Tgt Ion:	56	Resp:	19910
Ion	Ratio	Lower	Upper
56	100		
69	32.1	26.9	40.3
84	81.3	69.2	103.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#32

1,1,1-Trichloroethane

Concen: 5.068 ug/l

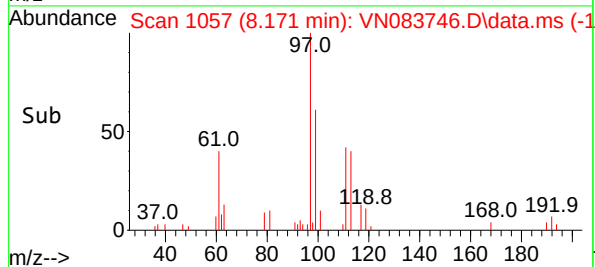
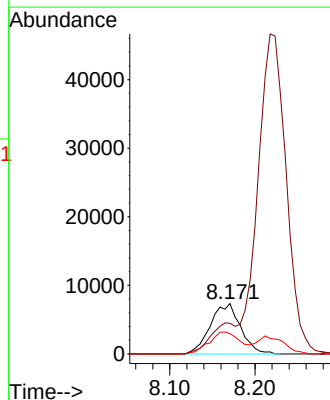
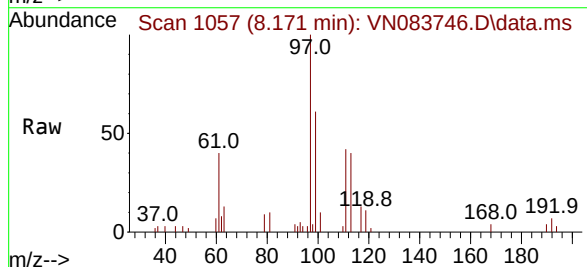
RT: 8.171 min Scan# 1057

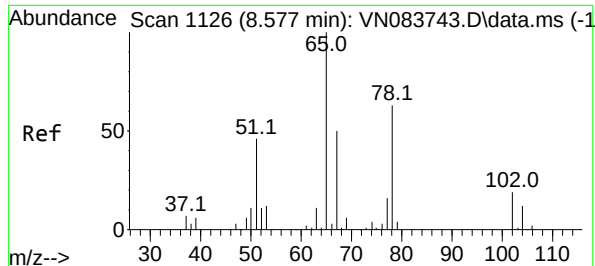
Delta R.T. 0.006 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Tgt Ion:	97	Resp:	18099
Ion	Ratio	Lower	Upper
97	100		
99	51.1	52.3	78.5
61	45.5	38.2	57.2





#33

1,2-Dichloroethane-d4

Concen: 3.970 ug/l

RT: 8.571 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 958

Ion Ratio Lower Upper

65 100

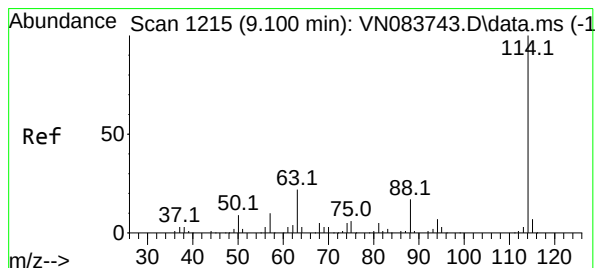
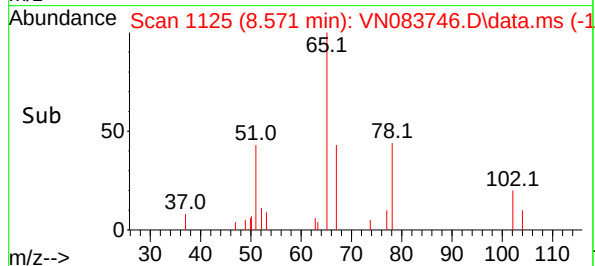
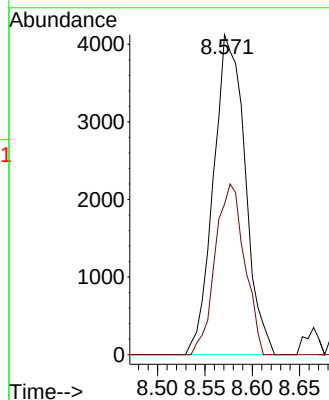
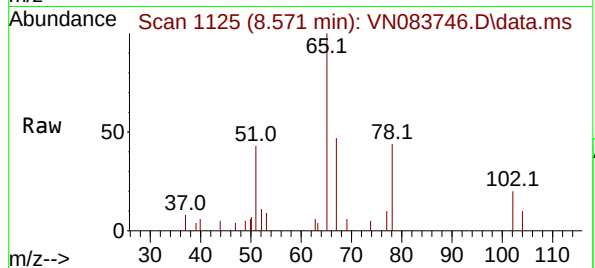
67 49.7 0.0 100.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

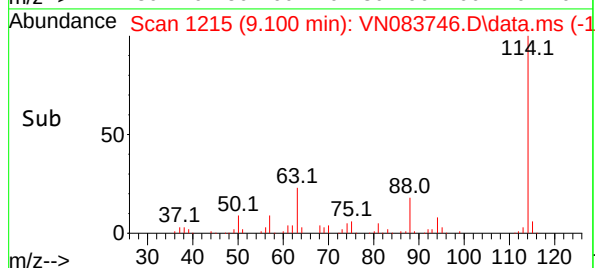
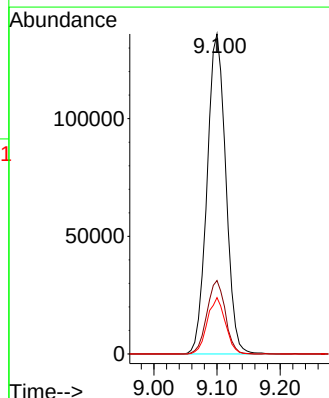
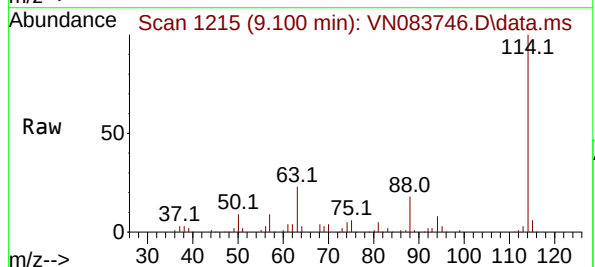
Tgt Ion:114 Resp: 280097

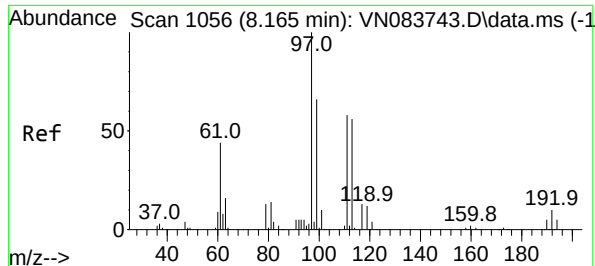
Ion Ratio Lower Upper

114 100

63 22.9 0.0 43.4

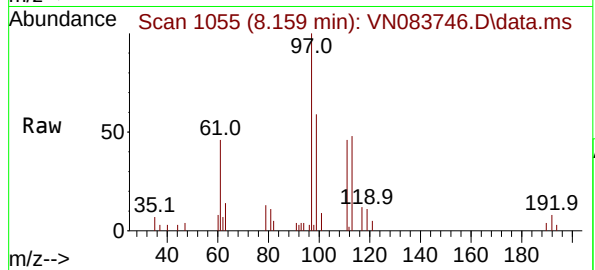
88 17.6 0.0 32.6





#35
Dibromofluoromethane
Concen: 4.435 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

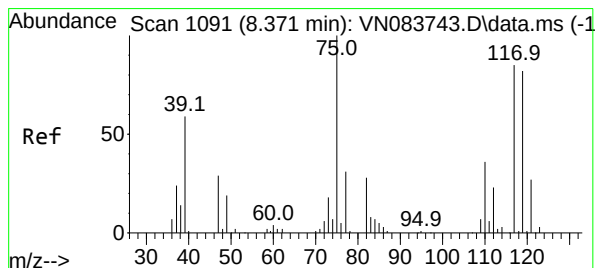
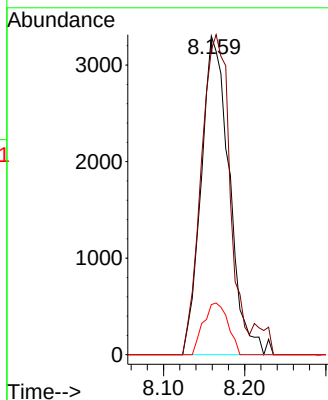
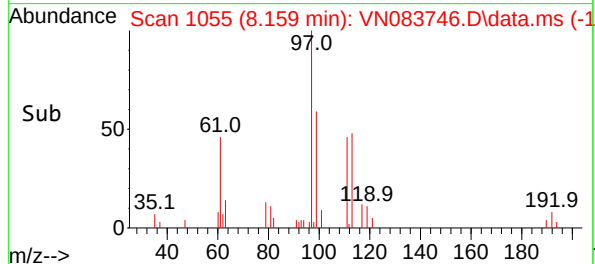
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 113 Resp: 795
Ion Ratio Lower Upper
113 100
111 102.2 82.6 124.0
192 14.2 14.3 21.5

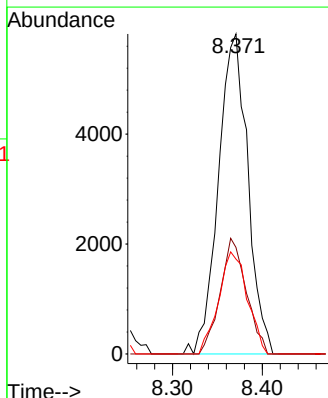
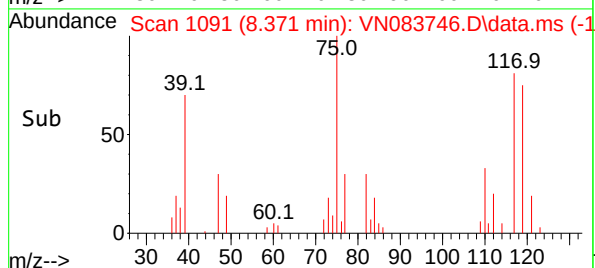
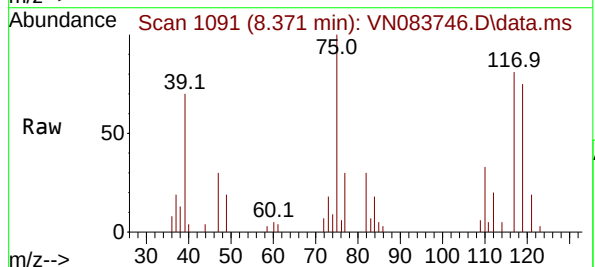
Manual Integrations
APPROVED

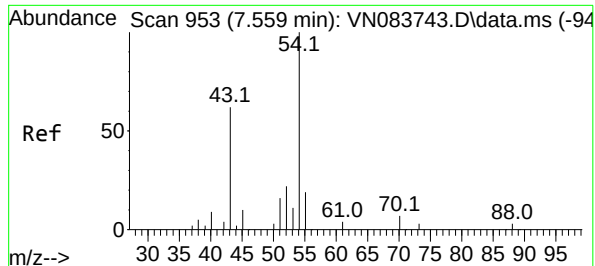
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#36
1,1-Dichloropropene
Concen: 4.903 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 75 Resp: 13233
Ion Ratio Lower Upper
75 100
110 32.3 16.7 50.1
77 31.2 25.2 37.8





#37

Ethyl Acetate

Concen: 4.903 ug/l

RT: 7.559 min Scan# 953

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

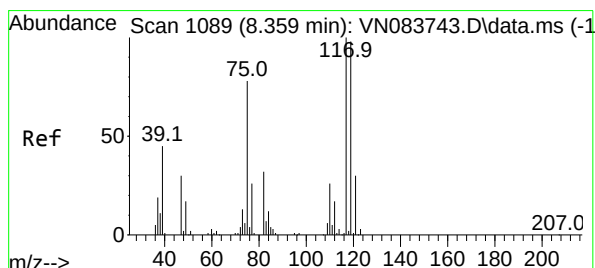
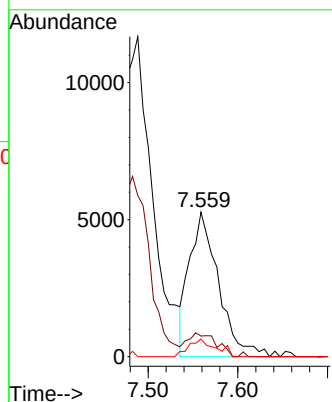
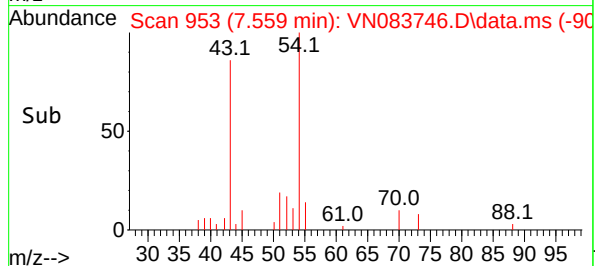
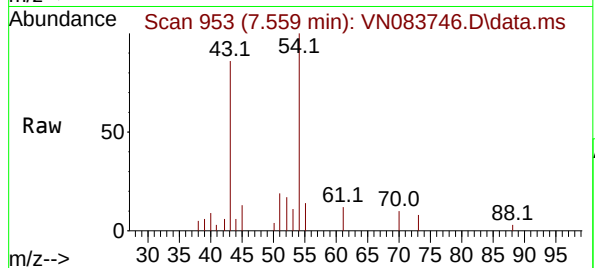
Tgt Ion:	43	Resp:	1201
Ion	Ratio	Lower	Upper
43	100		
61	16.0	11.1	16.7
70	10.9	8.8	13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#38

Carbon Tetrachloride

Concen: 4.979 ug/l

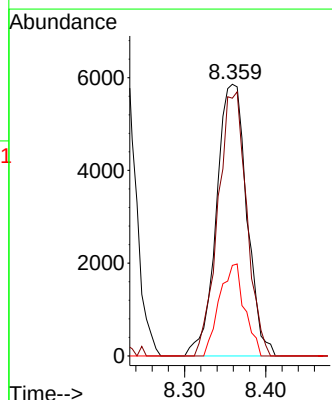
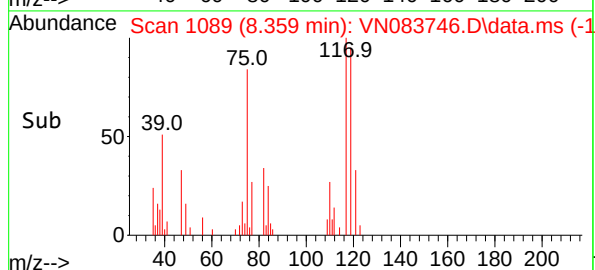
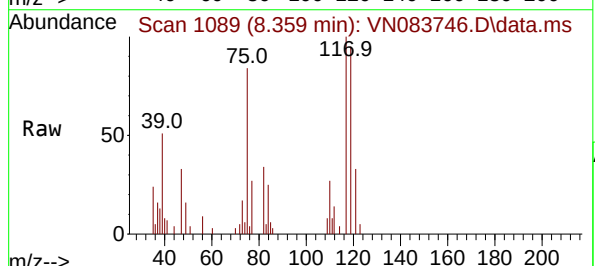
RT: 8.359 min Scan# 1089

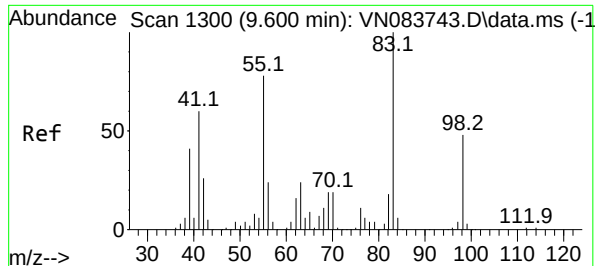
Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Tgt Ion:	117	Resp:	15245
Ion	Ratio	Lower	Upper
117	100		
119	94.9	76.1	114.1
121	33.3	24.1	36.1





#39

Methylcyclohexane

Concen: 4.598 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 83 Resp: 1412

Ion Ratio Lower Upper

83 100

55 90.7 62.2 93.4

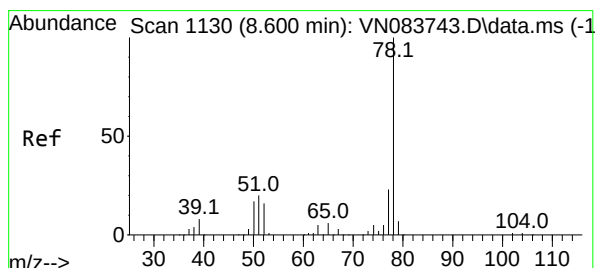
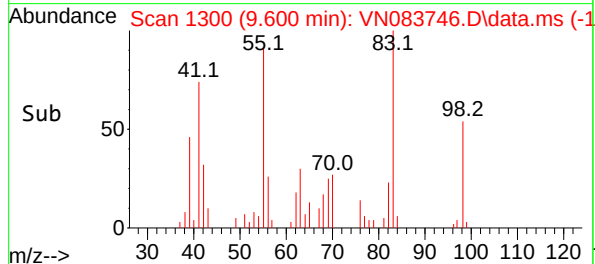
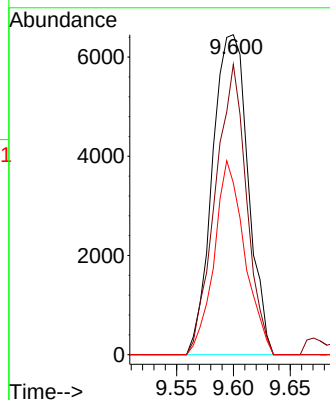
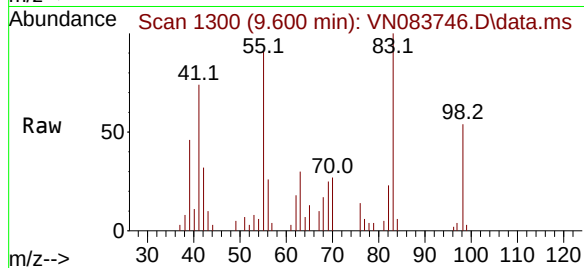
98 53.7 37.6 56.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#40

Benzene

Concen: 4.780 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN083746.D

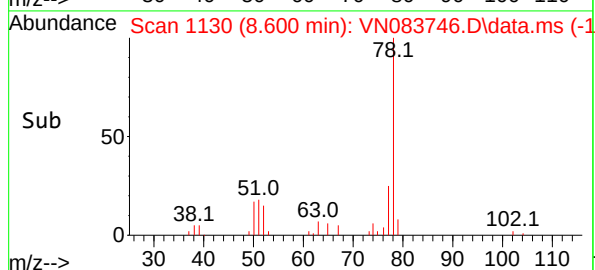
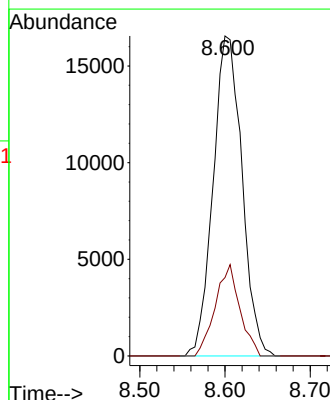
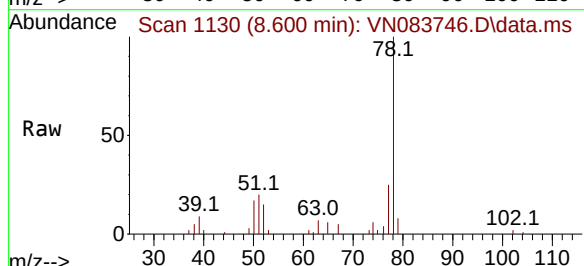
Acq: 10 Sep 2024 10:44

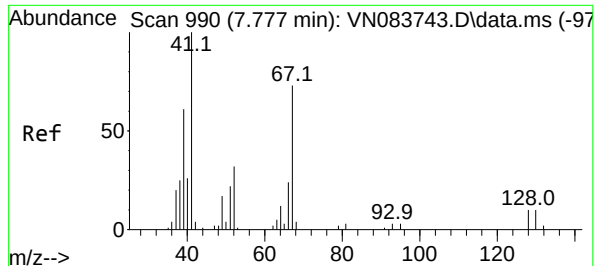
Tgt Ion: 78 Resp: 38828

Ion Ratio Lower Upper

78 100

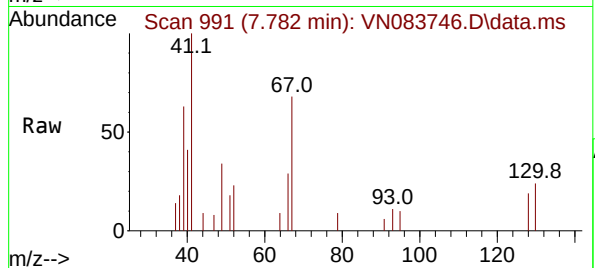
77 24.5 19.0 28.6





#41
Methacrylonitrile
Concen: 4.628 ug/l
RT: 7.782 min Scan# 991
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

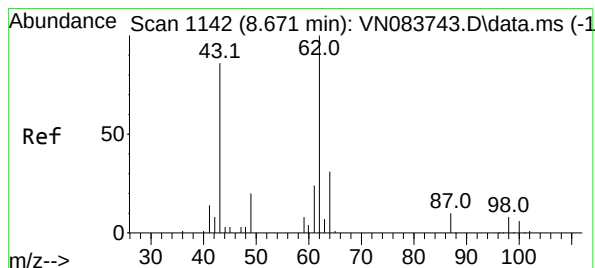
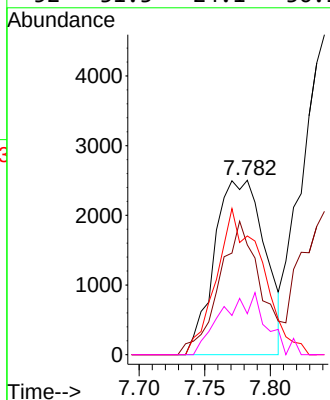
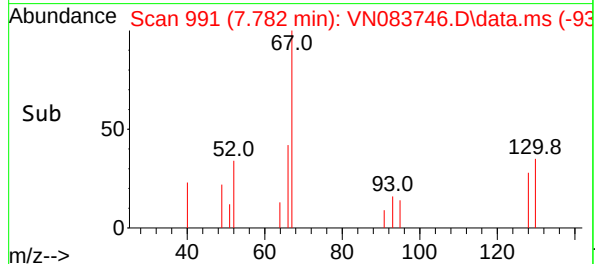
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 41 Resp: 6700
Ion Ratio Lower Upper
41 100
39 64.1 45.4 68.2
67 75.3 55.9 83.9
52 31.3 24.1 36.1

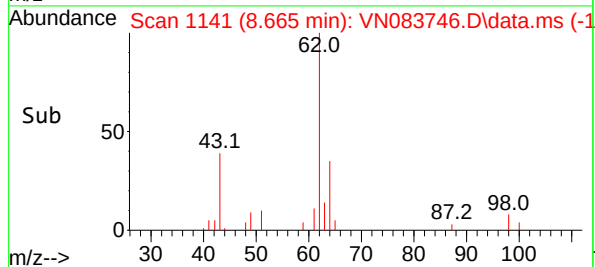
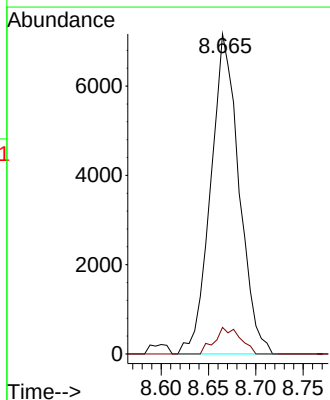
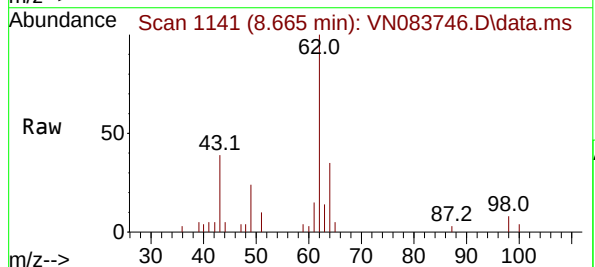
Manual Integrations
APPROVED

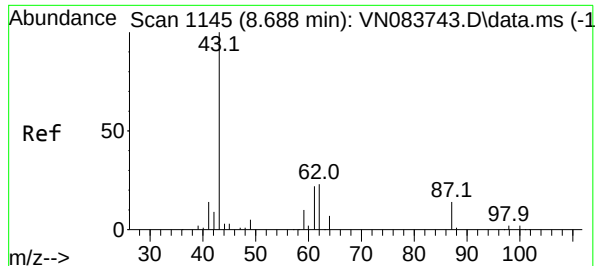
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#42
1,2-Dichloroethane
Concen: 4.926 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 62 Resp: 14954
Ion Ratio Lower Upper
62 100
98 7.5 0.0 16.6





#43

Isopropyl Acetate

Concen: 4.878 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

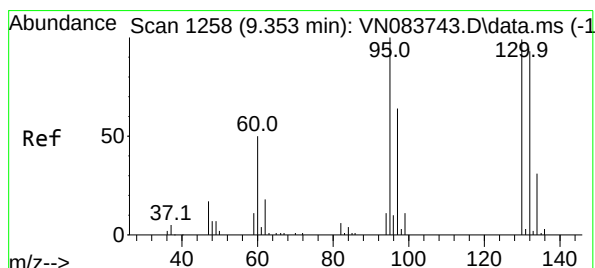
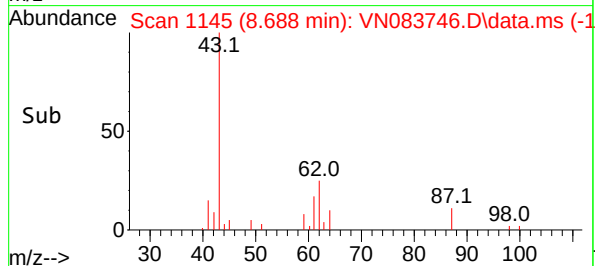
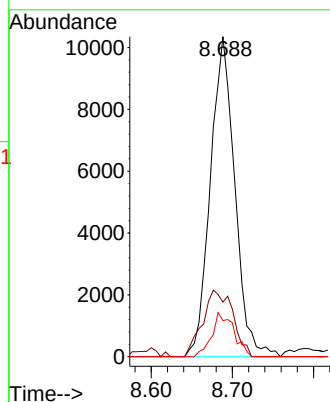
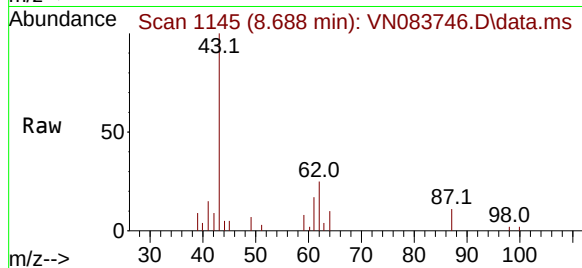
Tgt Ion: 43	Resp: 2165
Ion Ratio	Lower Upper
43 100	
61 25.7	19.4 29.0
87 12.4	9.8 14.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#44

Trichloroethene

Concen: 4.554 ug/l

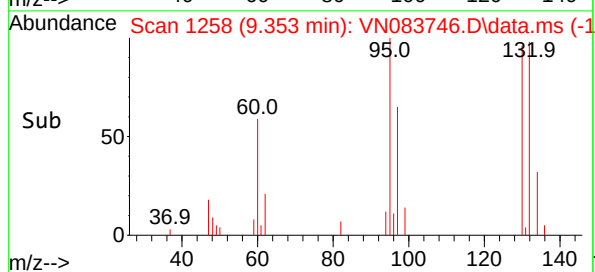
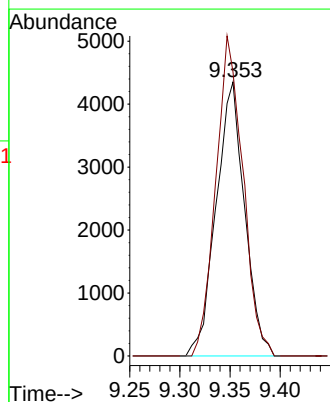
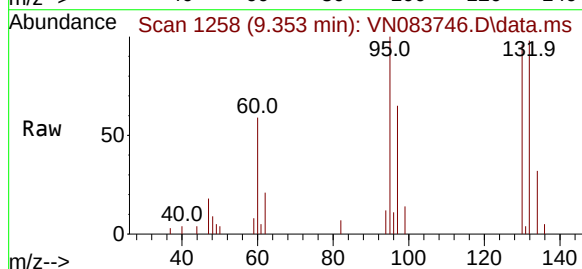
RT: 9.353 min Scan# 1258

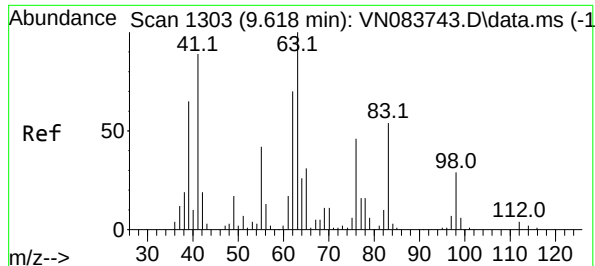
Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Tgt Ion:130	Resp: 8567
Ion Ratio	Lower Upper
130 100	
95 103.7	0.0 200.4





#45

1,2-Dichloropropane

Concen: 4.921 ug/l

RT: 9.623 min Scan# 1304

Delta R.T. 0.006 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 966

Ion Ratio Lower Upper

63 100

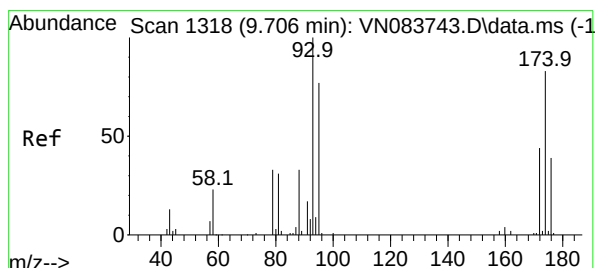
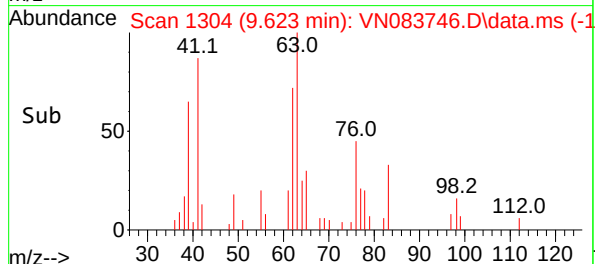
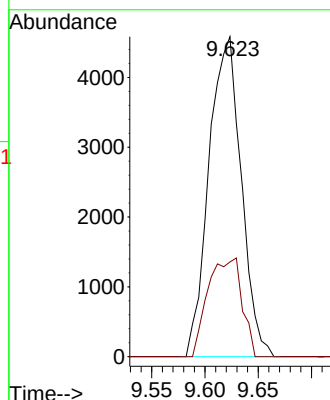
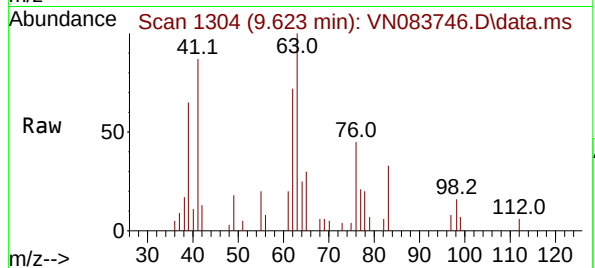
65 29.6 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#46

Dibromomethane

Concen: 5.001 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

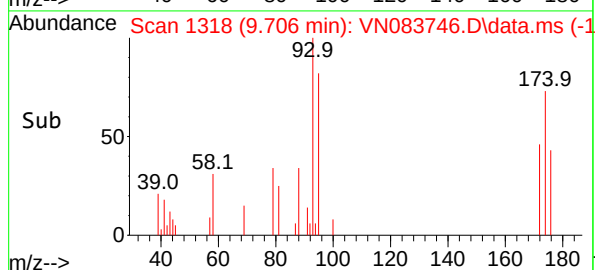
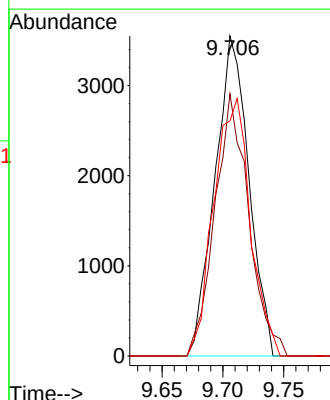
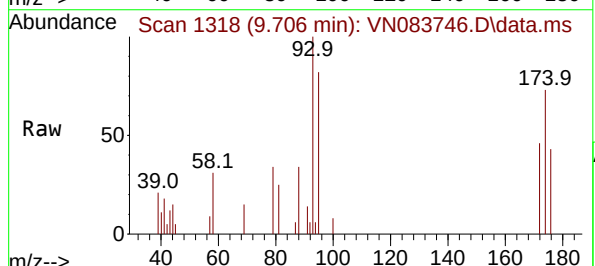
Tgt Ion: 93 Resp: 6877

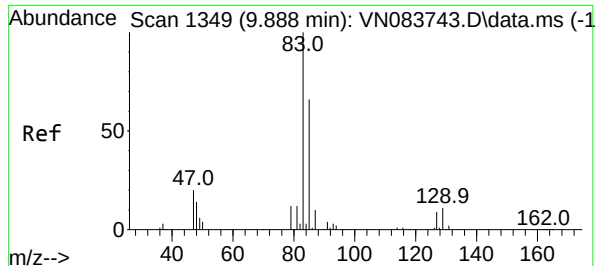
Ion Ratio Lower Upper

93 100

95 81.7 65.3 97.9

174 86.7 71.0 106.4





#47

Bromodichloromethane

Concen: 4.821 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

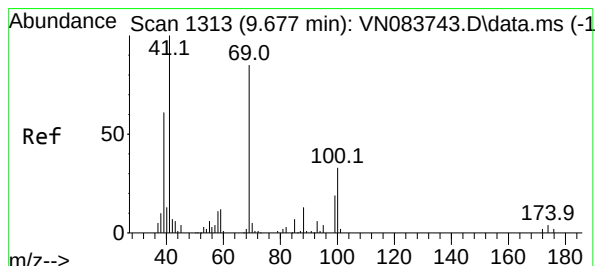
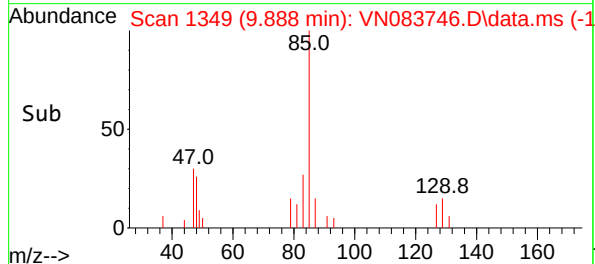
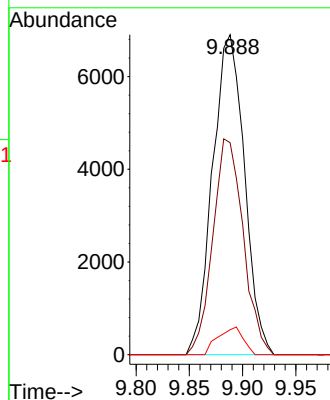
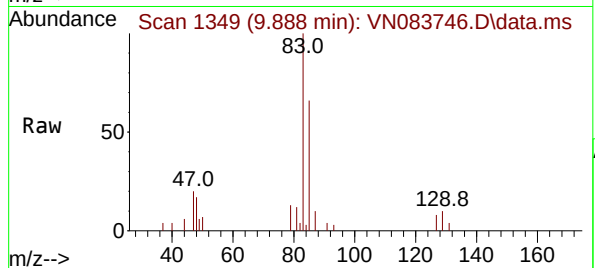
VSTDIC005

Tgt Ion: 83	Resp: 14350
Ion Ratio	Lower Upper
83	100
85	66.3 51.8 77.8
127	7.8 6.6 9.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#48

Methyl methacrylate

Concen: 4.837 ug/l

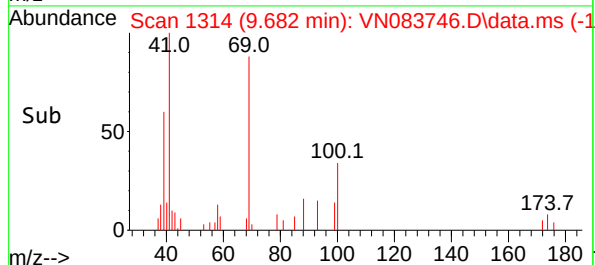
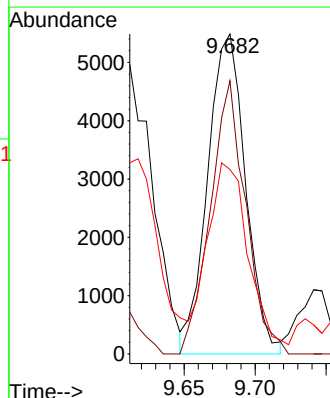
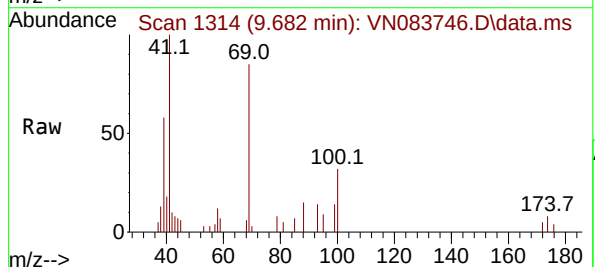
RT: 9.682 min Scan# 1314

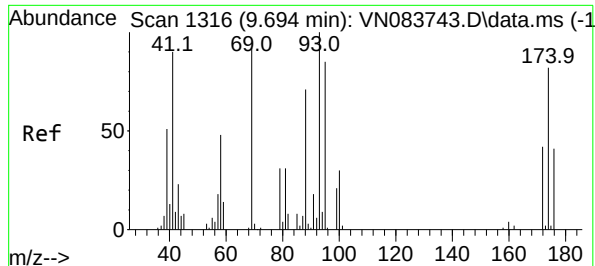
Delta R.T. 0.006 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Tgt Ion: 41	Resp: 10187
Ion Ratio	Lower Upper
41	100
69	79.8 64.3 96.5
39	65.6 48.9 73.3





#49

1,4-Dioxane

Concen: 94.692 ug/l

RT: 9.700 min Scan# 1316

Delta R.T. 0.006 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 88 Resp: 328

Ion Ratio Lower Upper

88 100

43 29.6 0.0 0.0

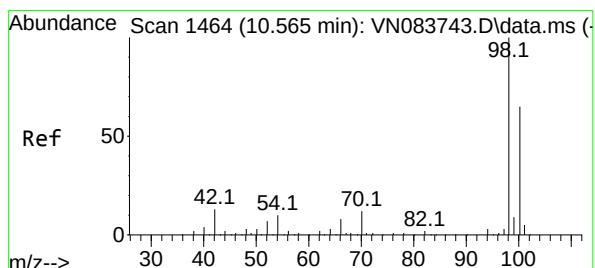
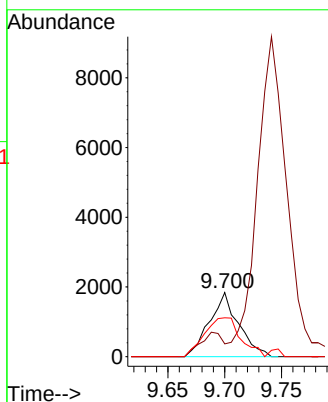
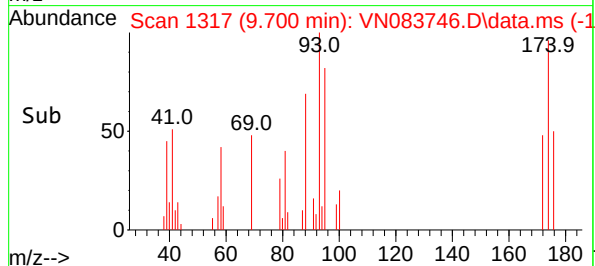
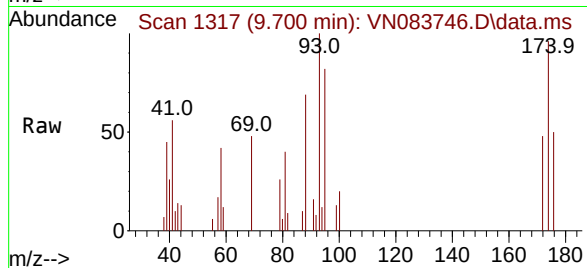
58 75.0 57.1 85.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#50

Toluene-d8

Concen: 3.439 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN083746.D

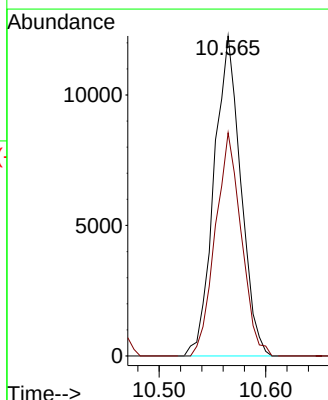
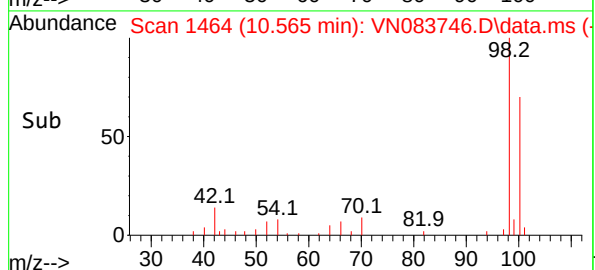
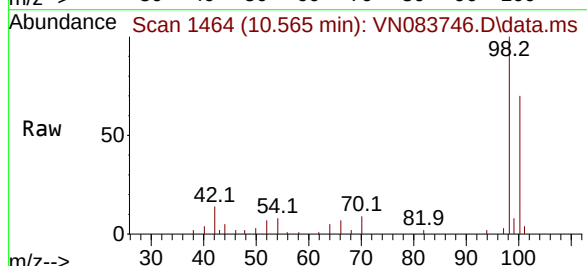
Acq: 10 Sep 2024 10:44

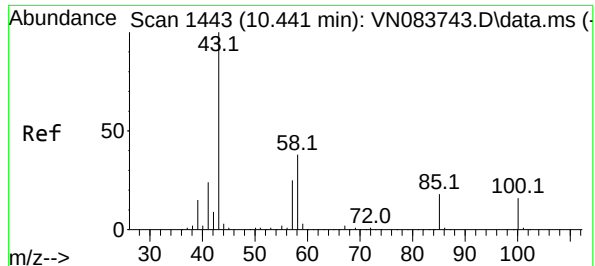
Tgt Ion: 98 Resp: 21320

Ion Ratio Lower Upper

98 100

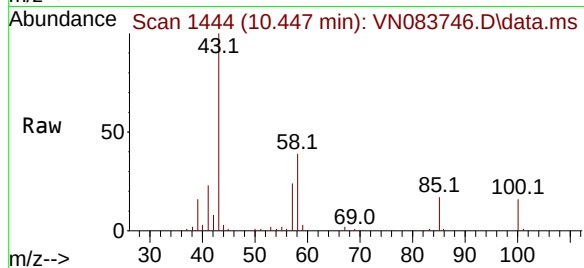
100 68.0 52.0 78.0





#51
4-Methyl-2-Pentanone
Concen: 24.128 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

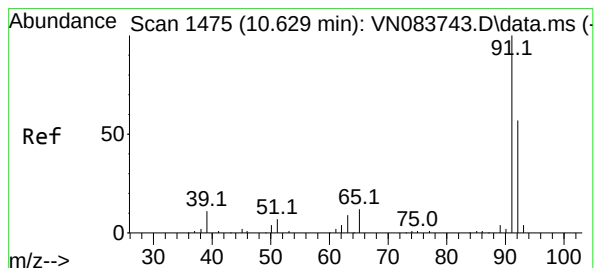
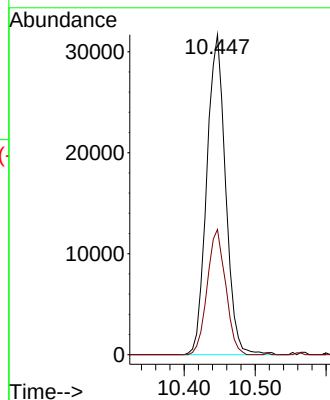
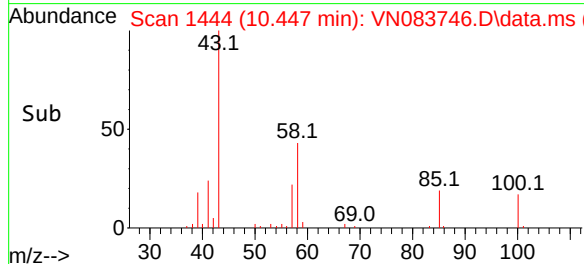
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 43 Resp: 58309
Ion Ratio Lower Upper
43 100
58 38.3 31.6 47.4

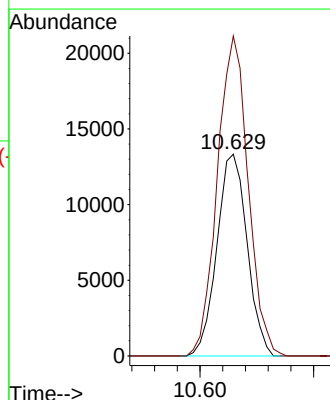
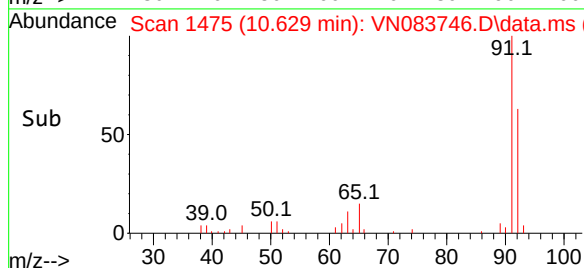
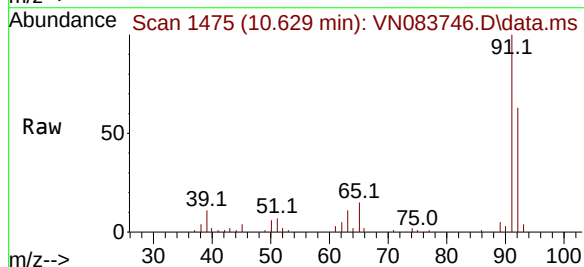
Manual Integrations
APPROVED

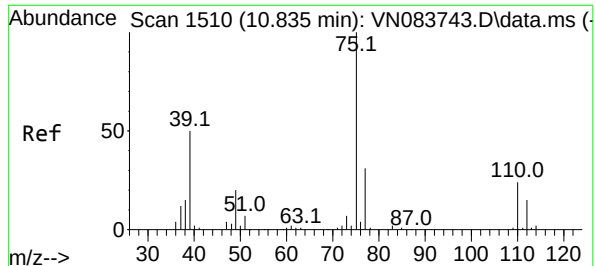
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#52
Toluene
Concen: 4.949 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

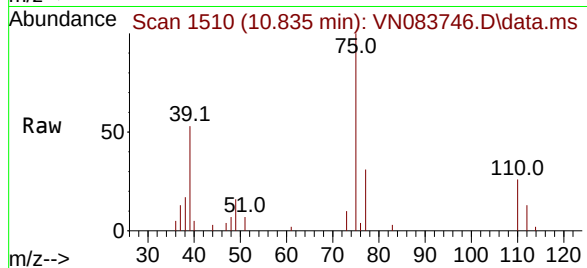
Tgt Ion: 92 Resp: 24590
Ion Ratio Lower Upper
92 100
91 161.8 134.7 202.1





#53
t-1,3-Dichloropropene
Concen: 4.733 ug/l
RT: 10.835 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

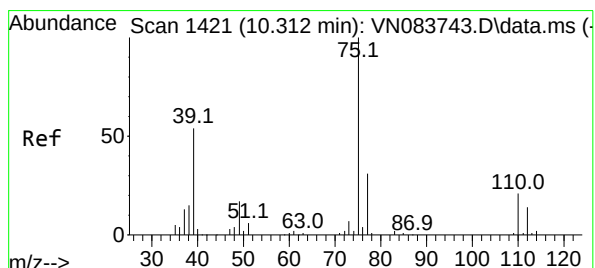
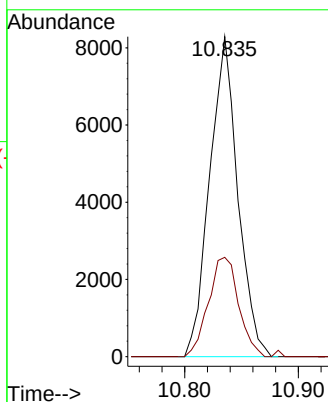
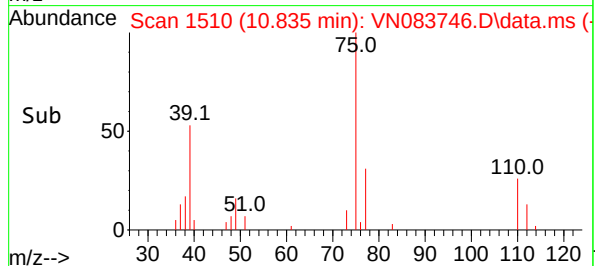
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 75 Resp: 14280
Ion Ratio Lower Upper
75 100
77 31.1 25.8 38.6

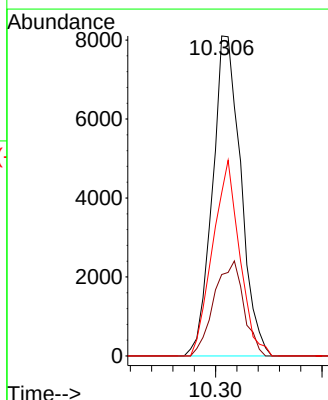
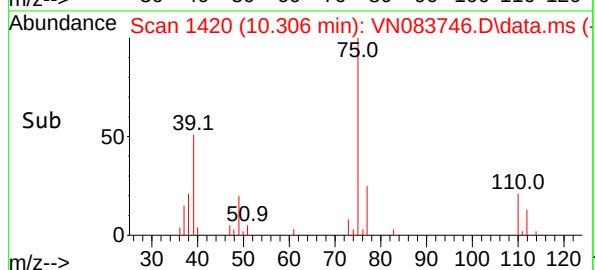
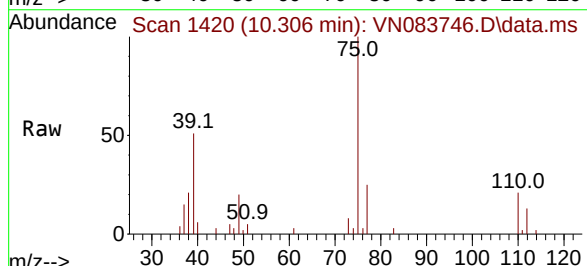
Manual Integrations
APPROVED

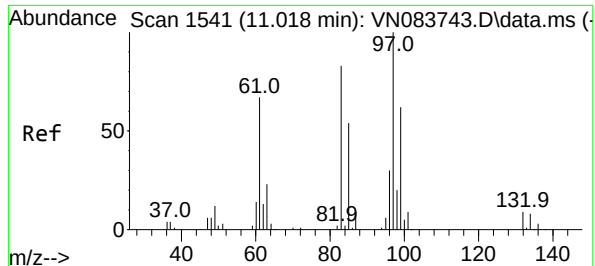
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#54
cis-1,3-Dichloropropene
Concen: 4.709 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 75 Resp: 14921
Ion Ratio Lower Upper
75 100
77 25.4 25.0 37.6
39 51.0 42.6 64.0





#55

1,1,2-Trichloroethane

Concen: 4.873 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 97 Resp: 9040

Ion Ratio Lower Upper

97 100

83 81.9 67.5 101.3

85 55.8 44.2 66.2

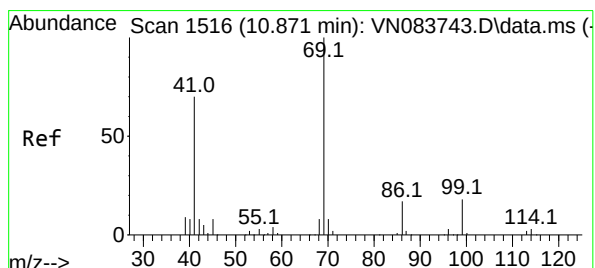
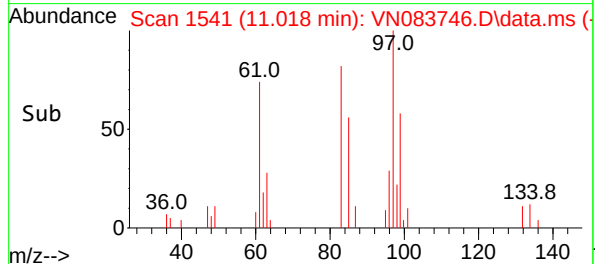
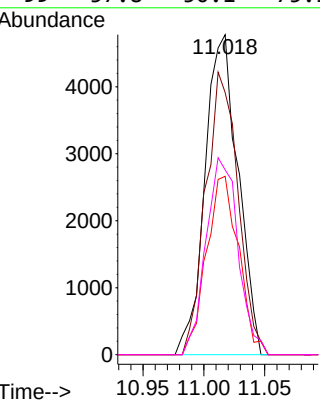
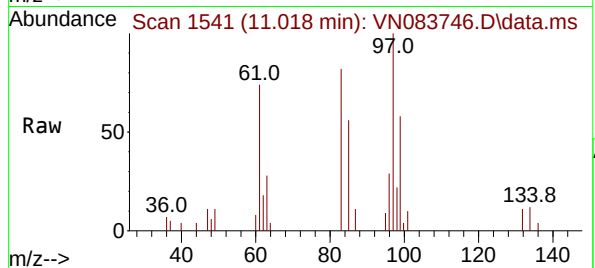
99 57.8 50.1 75.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#56

Ethyl methacrylate

Concen: 4.664 ug/l

RT: 10.870 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

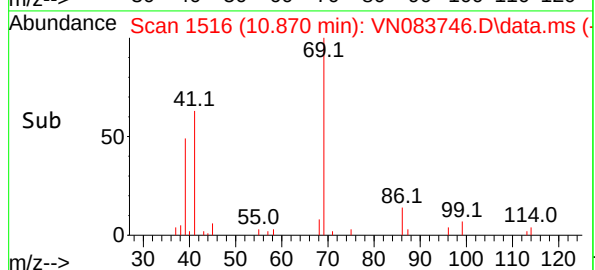
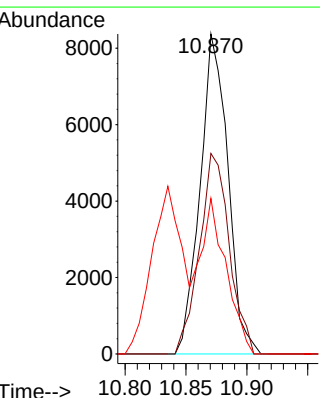
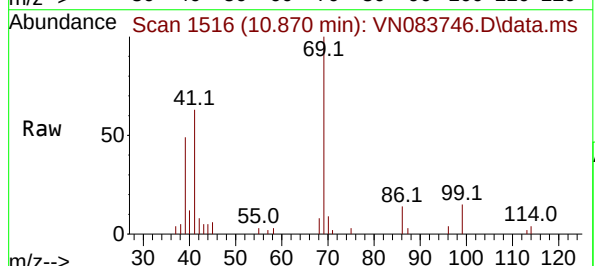
Tgt Ion: 69 Resp: 13310

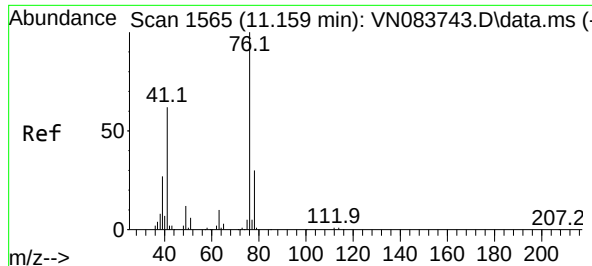
Ion Ratio Lower Upper

69 100

41 67.4 53.9 80.9

39 45.8 32.6 48.8





#57

1,3-Dichloropropane

Concen: 5.124 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. 0.006 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 1633

Ion Ratio Lower Upper

76 100

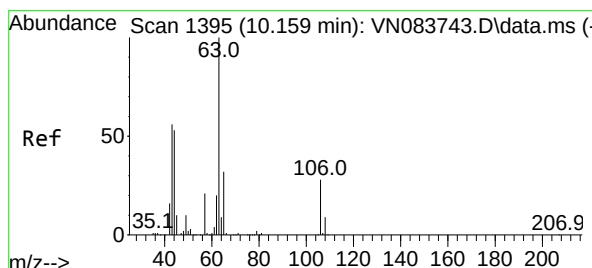
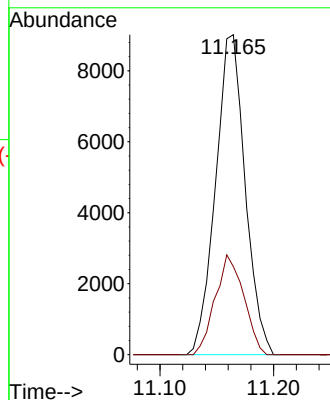
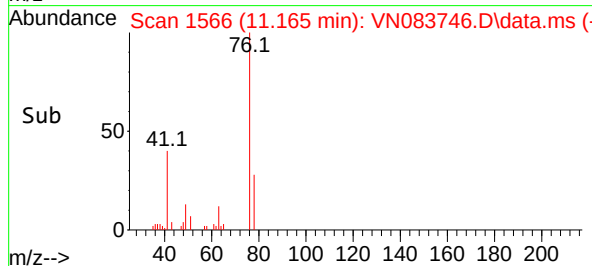
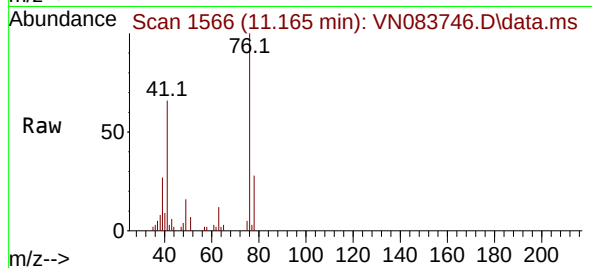
78 30.0 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#58

2-Chloroethyl Vinyl ether

Concen: 24.016 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN083746.D

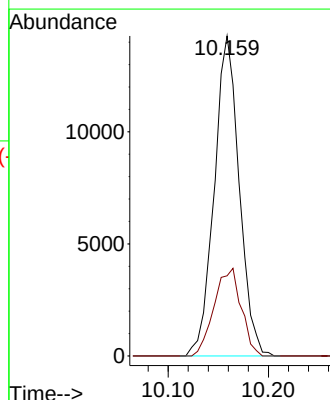
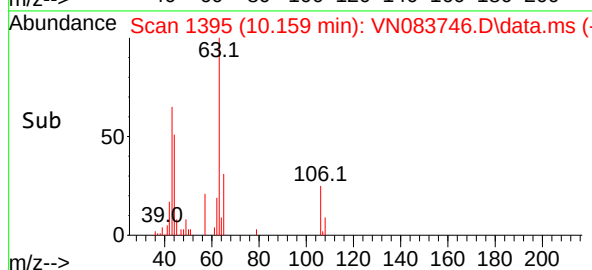
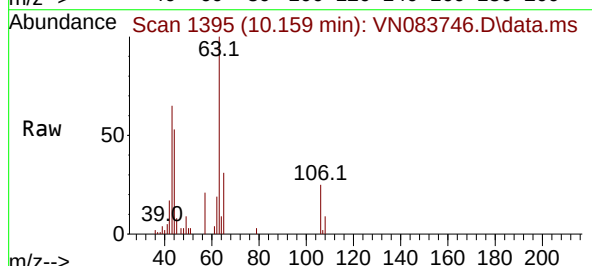
Acq: 10 Sep 2024 10:44

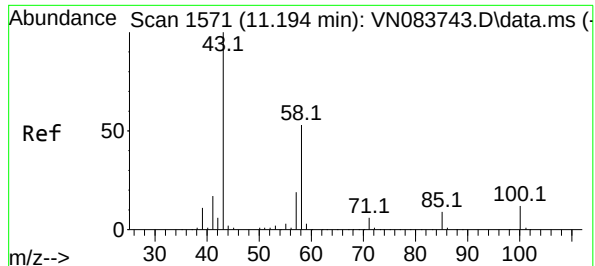
Tgt Ion: 63 Resp: 24698

Ion Ratio Lower Upper

63 100

106 29.6 23.3 34.9





#59

2-Hexanone

Concen: 24.475 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 43752

Ion Ratio Lower Upper

43 100

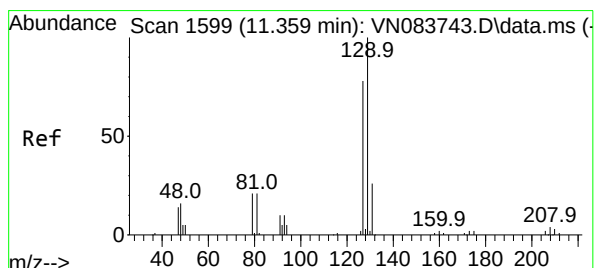
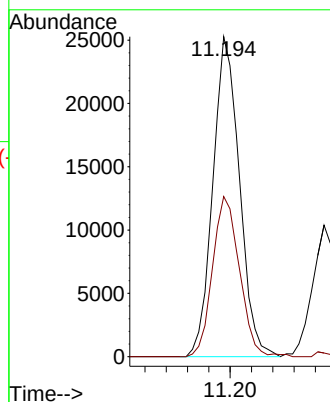
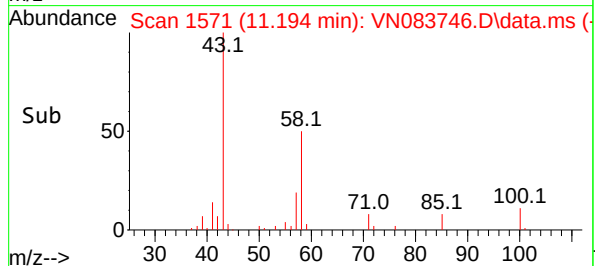
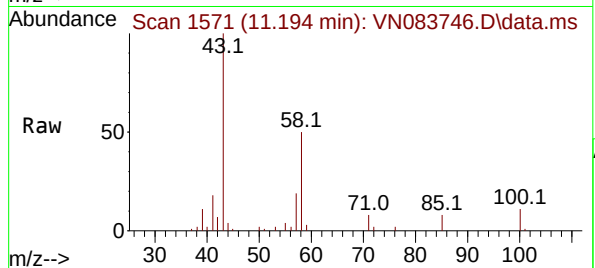
58 50.7 27.2 81.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#60

Dibromochloromethane

Concen: 4.611 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. -0.006 min

Lab File: VN083746.D

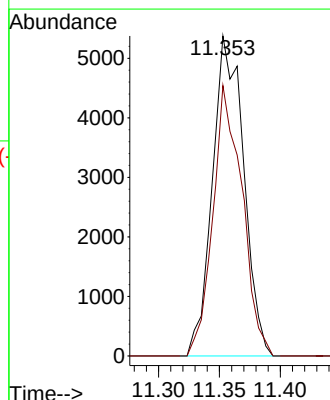
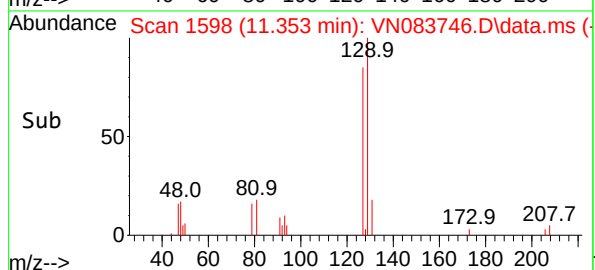
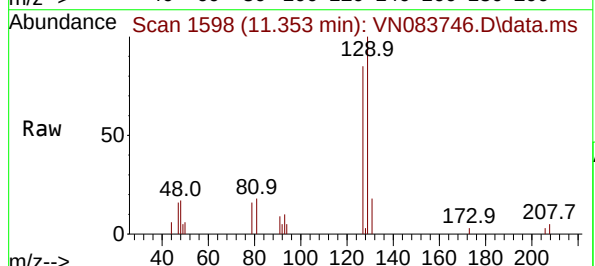
Acq: 10 Sep 2024 10:44

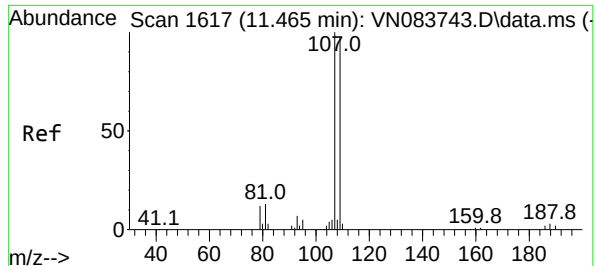
Tgt Ion:129 Resp: 9573

Ion Ratio Lower Upper

129 100

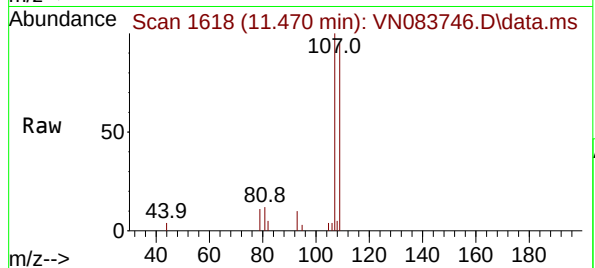
127 79.2 39.0 116.9





#61
1,2-Dibromoethane
Concen: 4.671 ug/l
RT: 11.470 min Scan# 1617
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

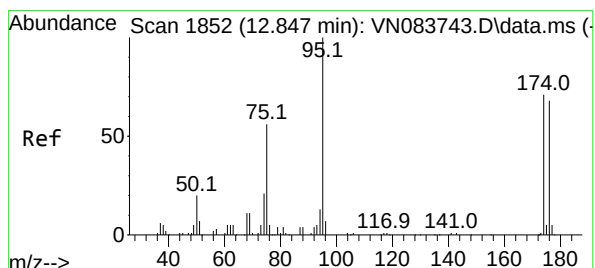
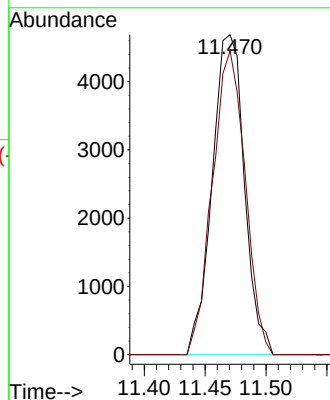
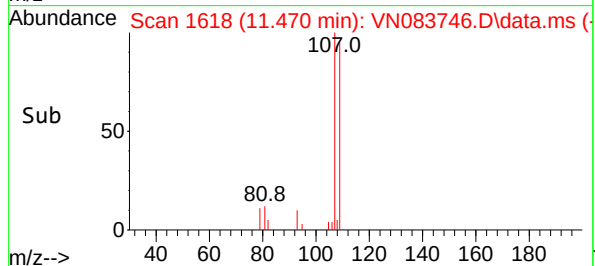
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 107 Resp: 864
Ion Ratio Lower Upper
107 100
109 96.6 75.6 113.4

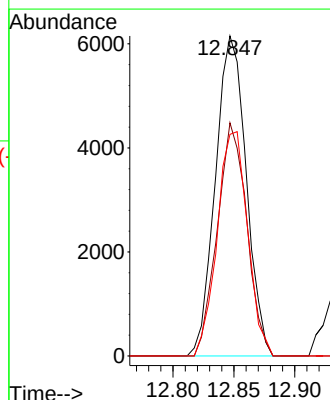
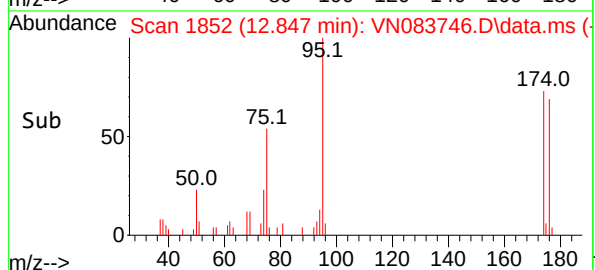
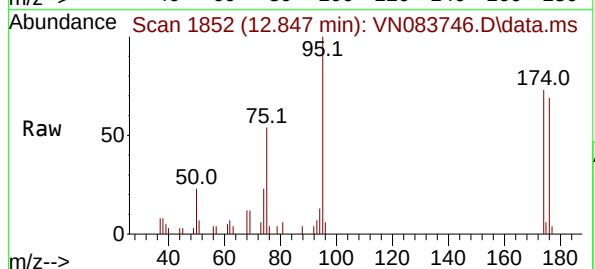
Manual Integrations
APPROVED

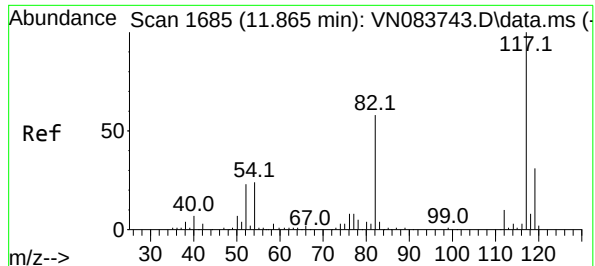
Reviewed By : John Carlone 09/11/2024
Supervised By : Semsettin Yesilyurt 09/11/2024



#62
4-Bromofluorobenzene
Concen: 4.226 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 95 Resp: 10808
Ion Ratio Lower Upper
95 100
174 69.9 0.0 139.8
176 69.4 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:117 Resp: 23573

Ion Ratio Lower Upper

117 100

82 58.7 47.4 71.0

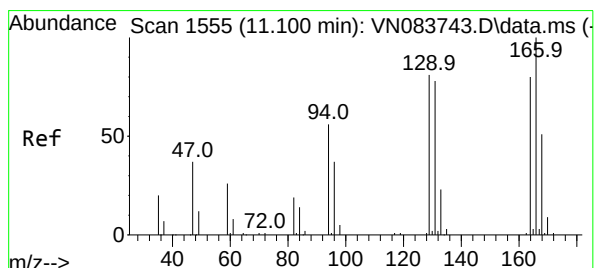
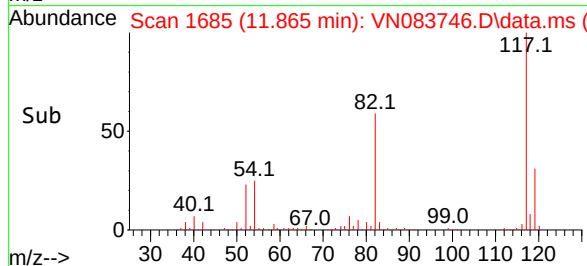
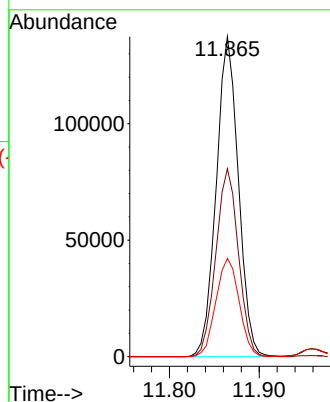
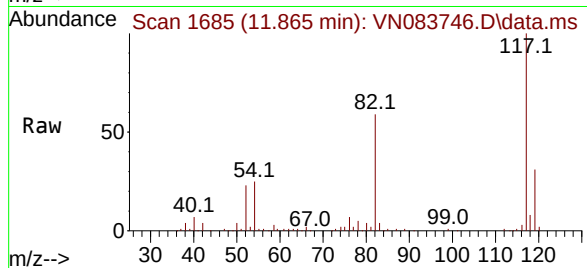
119 30.7 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#64

Tetrachloroethene

Concen: 5.116 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Tgt Ion:164 Resp: 8021

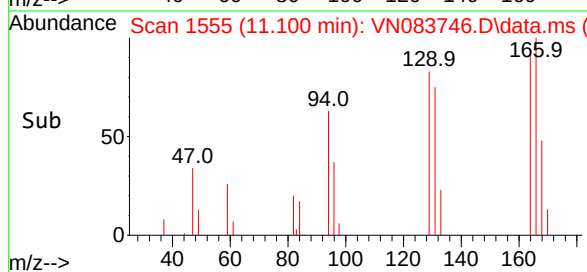
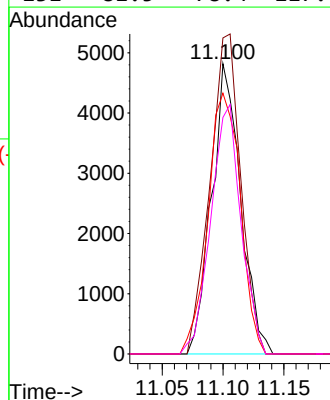
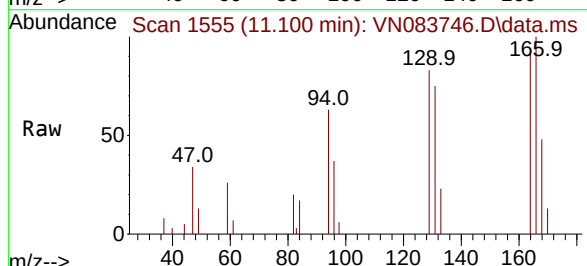
Ion Ratio Lower Upper

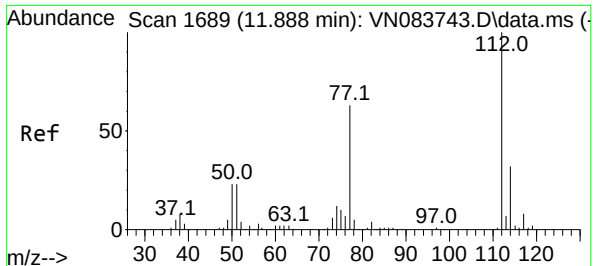
164 100

166 108.8 103.7 155.5

129 89.8 79.9 119.9

131 81.5 78.4 117.6





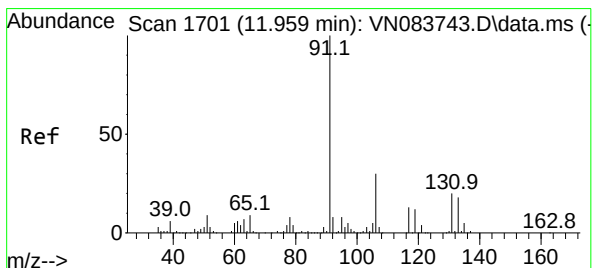
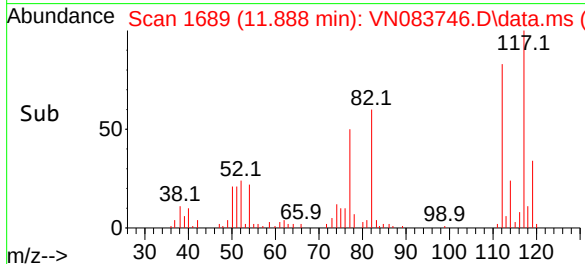
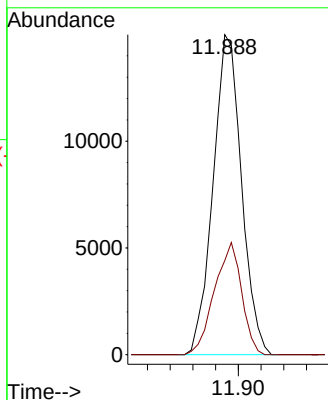
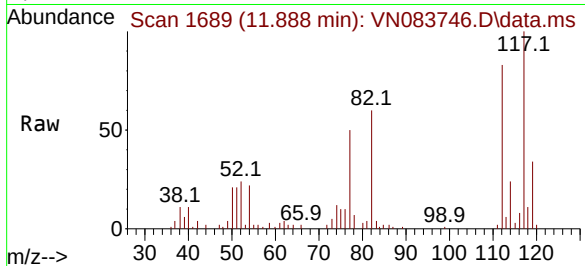
#65
Chlorobenzene
Concen: 4.973 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:112 Resp: 26054
Ion Ratio Lower Upper
112 100
114 29.4 25.7 38.5

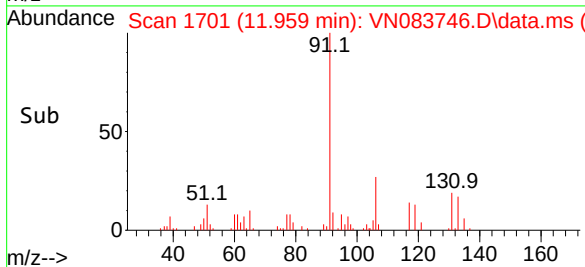
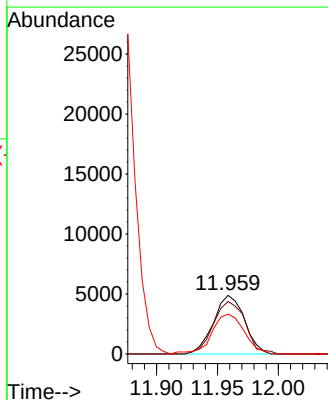
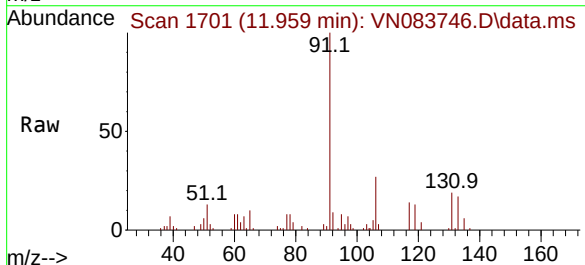
Manual Integrations
APPROVED

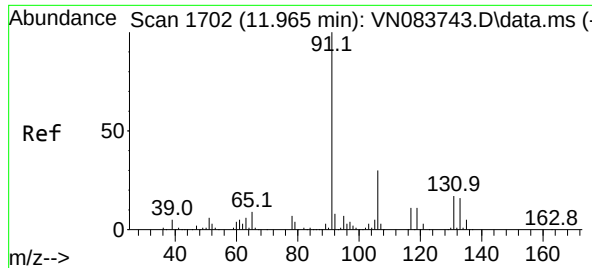
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 4.760 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

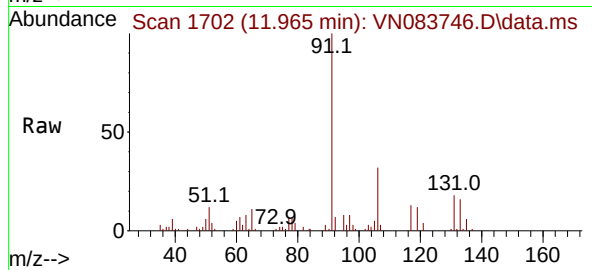
Tgt Ion:131 Resp: 8646
Ion Ratio Lower Upper
131 100
133 92.2 47.5 142.6
119 70.7 31.6 94.8





#67
Ethyl Benzene
Concen: 4.785 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

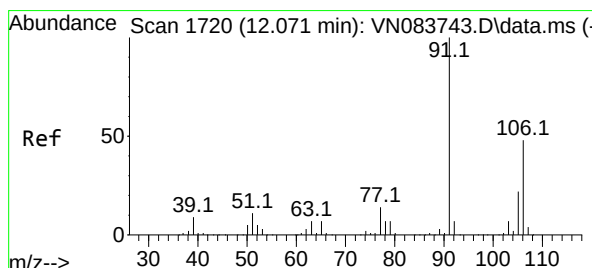
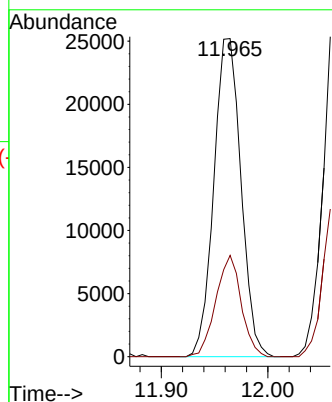
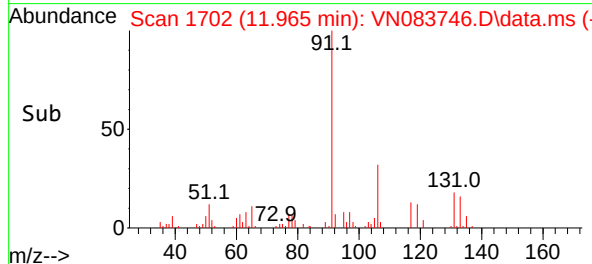
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 91 Resp: 44539
Ion Ratio Lower Upper
91 100
106 31.8 24.3 36.5

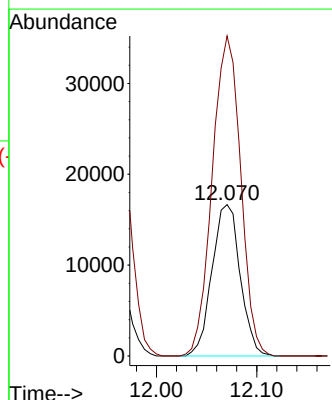
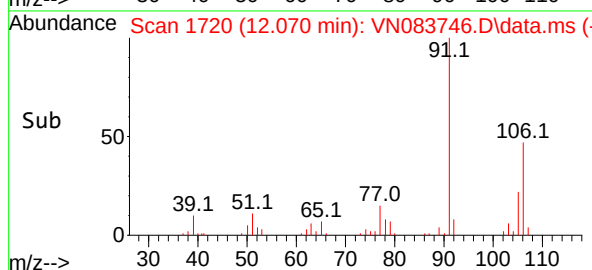
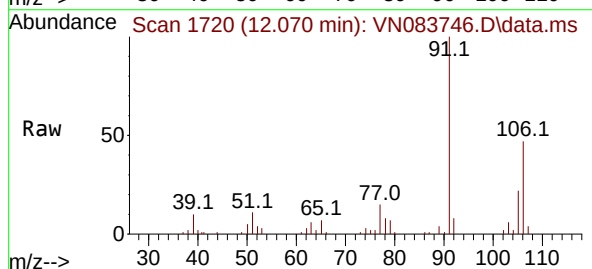
Manual Integrations
APPROVED

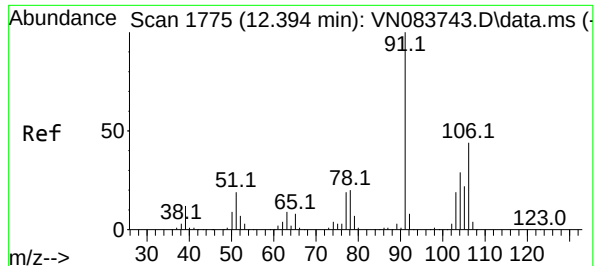
Reviewed By :John Carbone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#68
m/p-Xylenes
Concen: 9.387 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

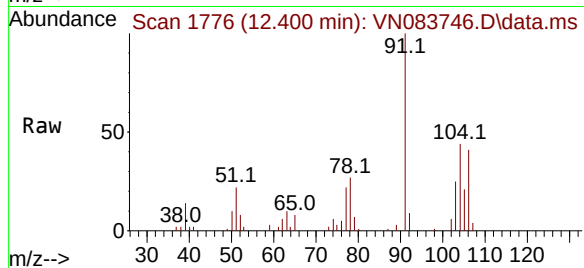
Tgt Ion:106 Resp: 32437
Ion Ratio Lower Upper
106 100
91 213.6 169.2 253.8





#69
o-Xylene
Concen: 4.706 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

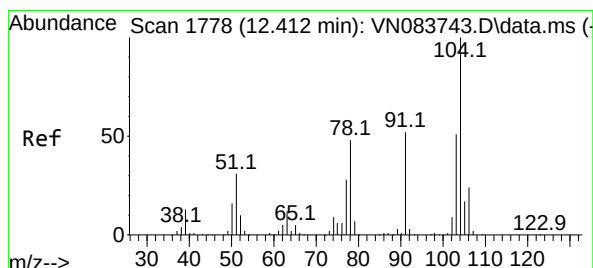
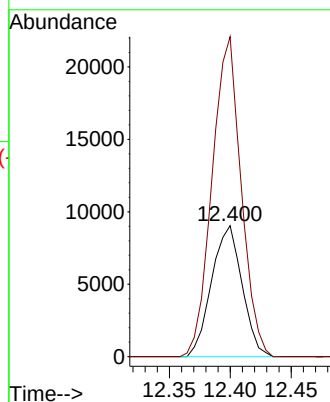
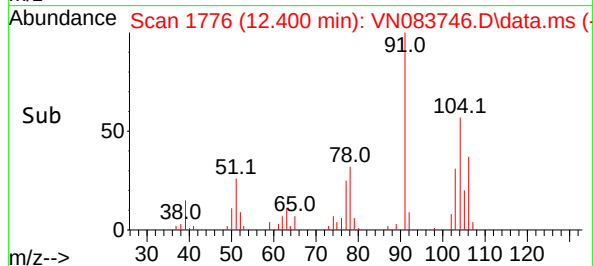
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion:106 Resp: 1574
Ion Ratio Lower Upper
106 100
91 232.9 112.9 338.6

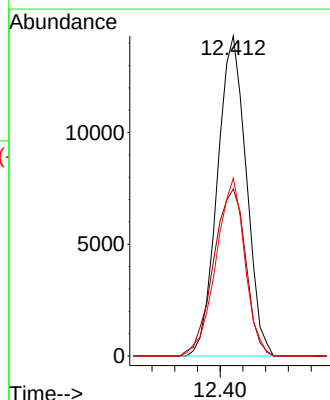
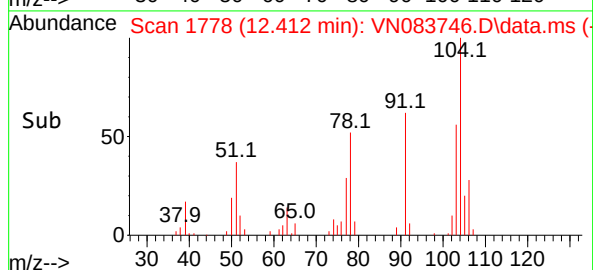
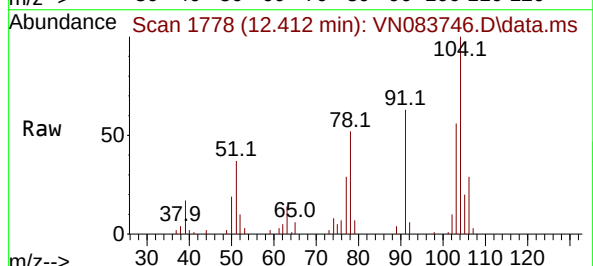
Manual Integrations
APPROVED

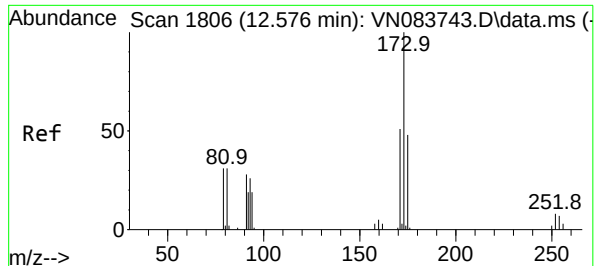
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#70
Styrene
Concen: 4.604 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

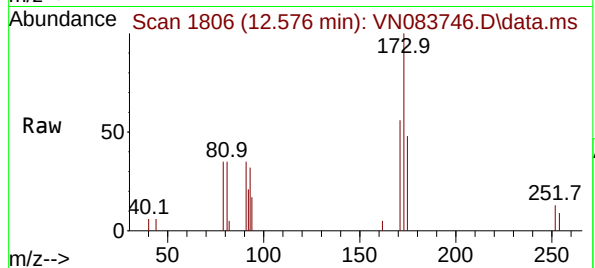
Tgt Ion:104 Resp: 25276
Ion Ratio Lower Upper
104 100
78 58.2 43.3 64.9
103 55.5 43.4 65.2





#71
Bromoform
Concen: 4.953 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

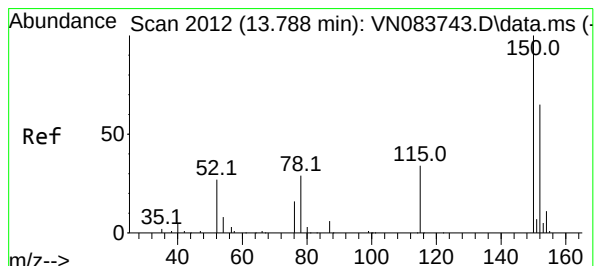
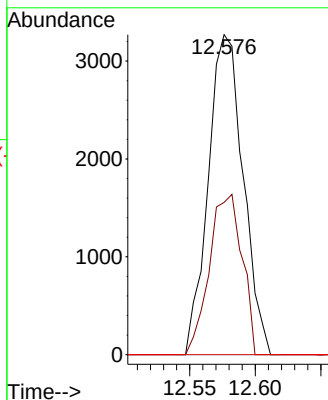
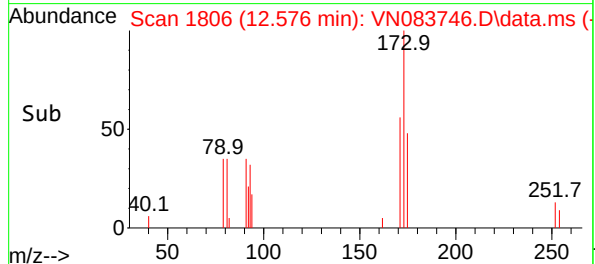
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion:173 Resp: 6062
Ion Ratio Lower Upper
173 100
175 46.8 24.1 72.2
254 0.0 0.0 0.0

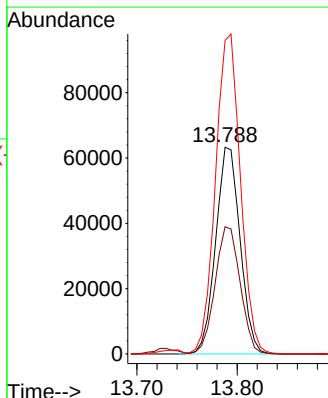
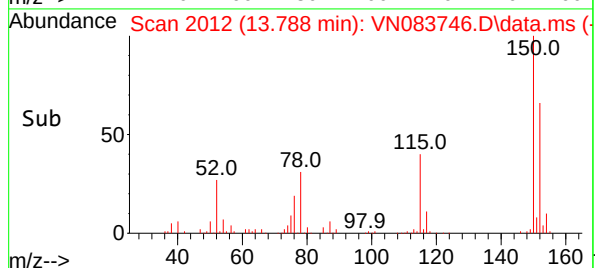
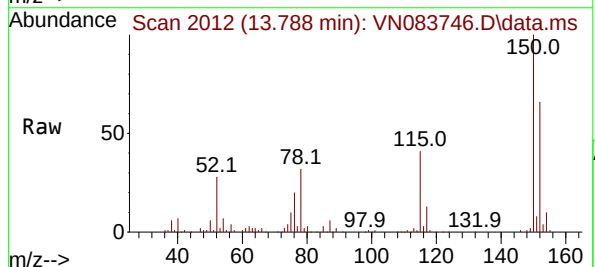
Manual Integrations
APPROVED

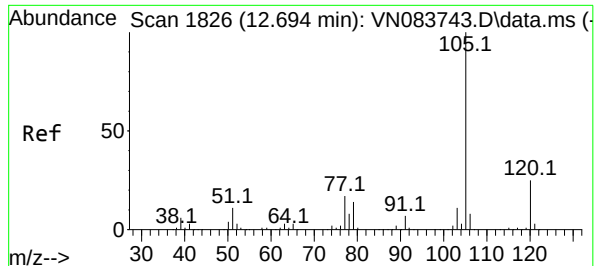
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:152 Resp: 107014
Ion Ratio Lower Upper
152 100
115 63.2 32.2 96.6
150 158.1 0.0 348.6





#73
Isopropylbenzene
Concen: 4.923 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

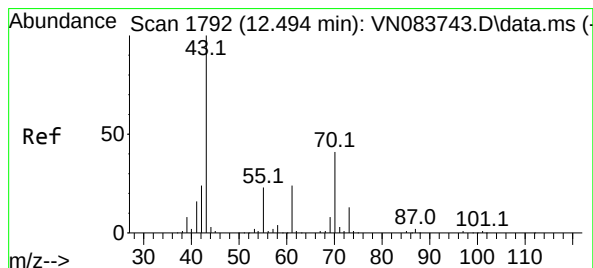
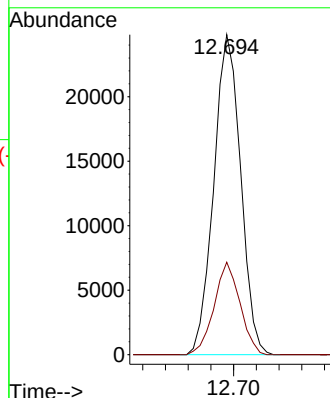
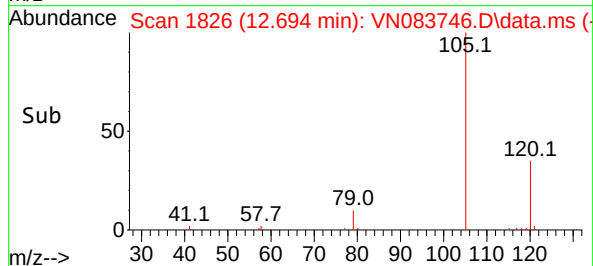
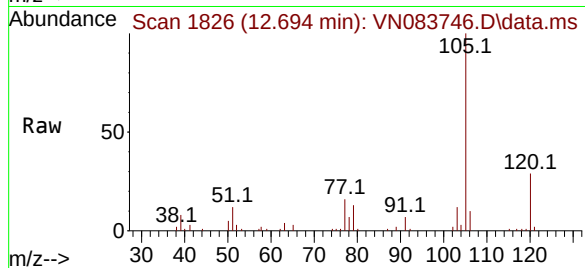
ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 40750
Ion Ratio Lower Upper
105 100
120 27.8 12.6 37.8

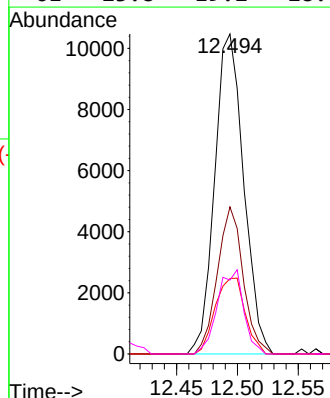
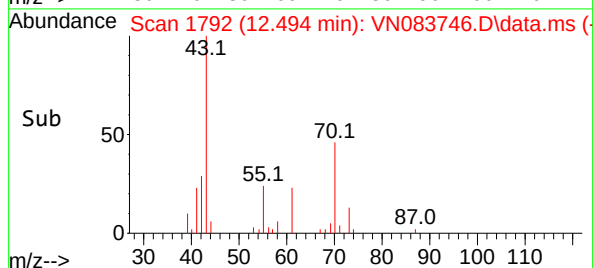
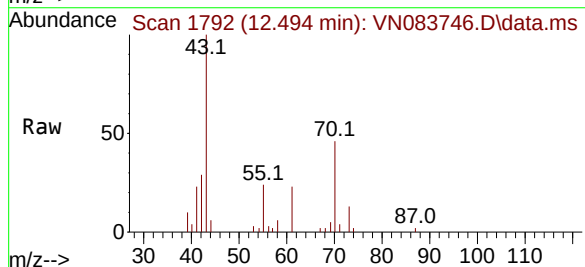
Manual Integrations
APPROVED

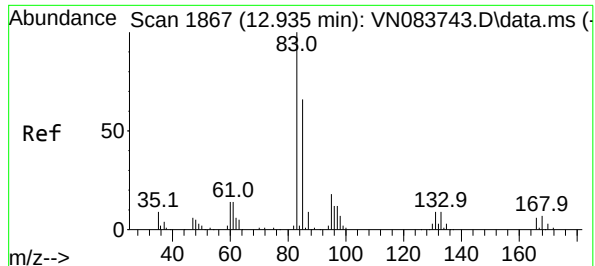
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#74
N-ethyl acetate
Concen: 4.903 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

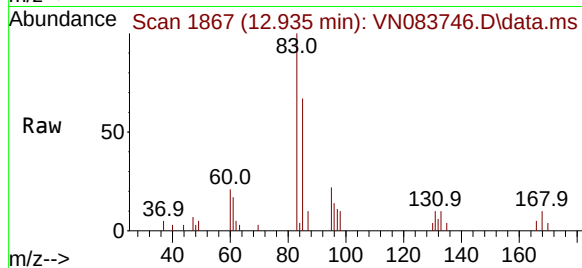
Tgt Ion: 43 Resp: 17318
Ion Ratio Lower Upper
43 100
70 41.1 34.5 51.7
55 24.5 18.6 28.0
61 23.8 19.2 28.8





#75
1,1,2,2-Tetrachloroethane
Concen: 5.197 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

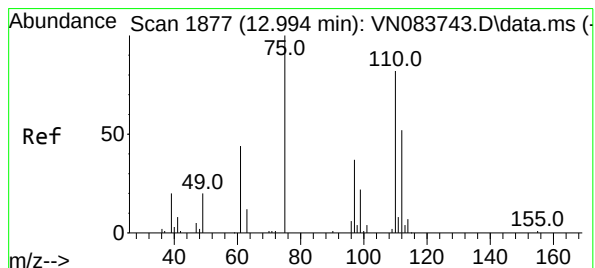
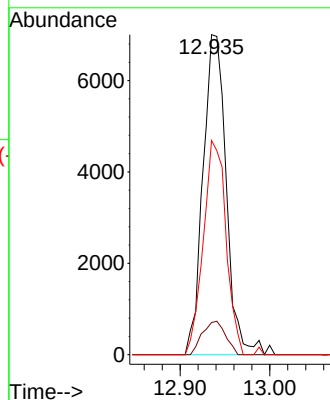
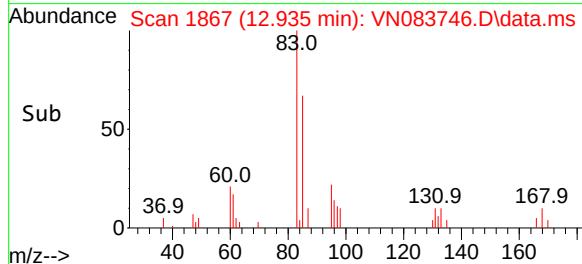
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 83 Resp: 1264
Ion Ratio Lower Upper
83 100
131 10.4 5.2 15.6
85 65.0 31.9 95.9

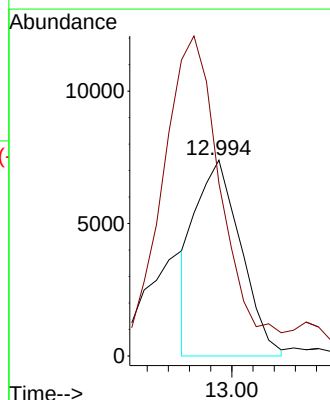
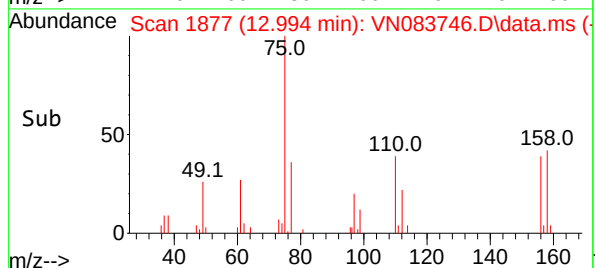
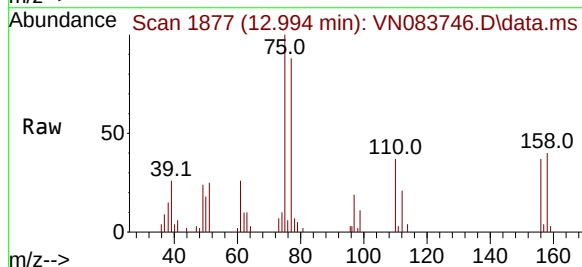
Manual Integrations
APPROVED

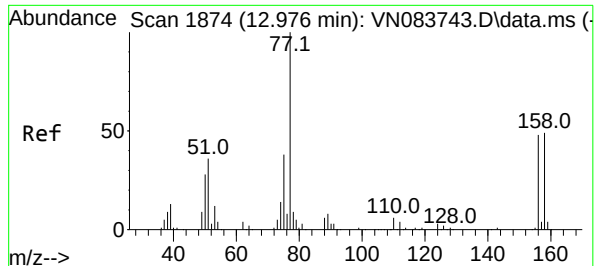
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#76
1,2,3-Trichloropropane
Concen: 5.118 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

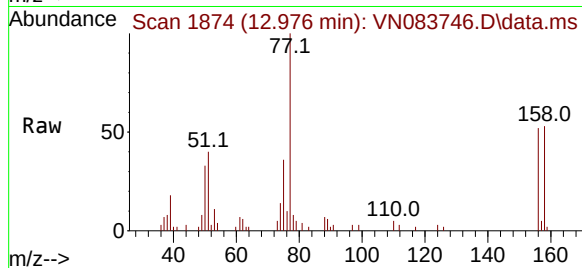
Tgt Ion: 75 Resp: 11052
Ion Ratio Lower Upper
75 100
77 215.3 95.2 285.6





#77
Bromobenzene
Concen: 5.087 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

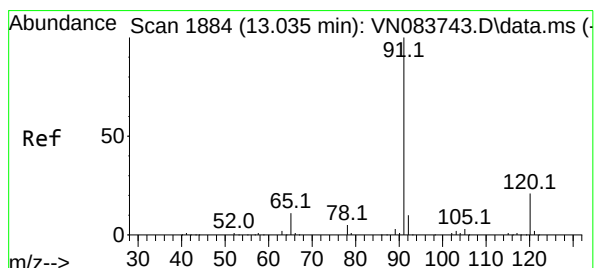
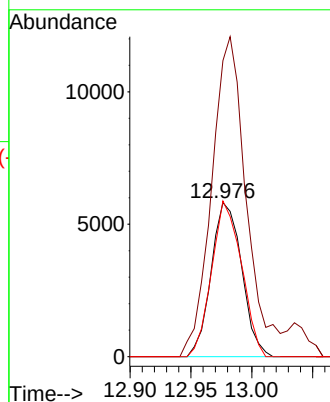
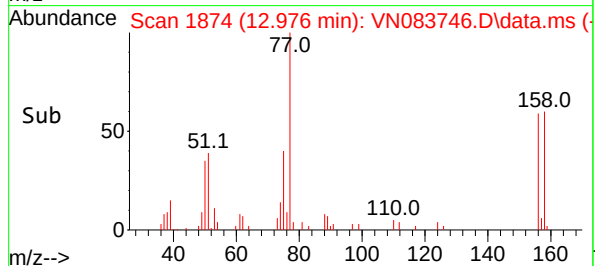
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion:156 Resp: 1013
Ion Ratio Lower Upper
156 100
77 234.7 114.3 343.1
158 99.0 48.9 146.7

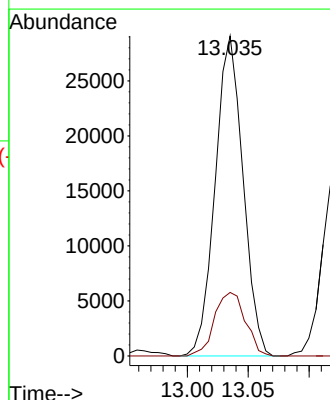
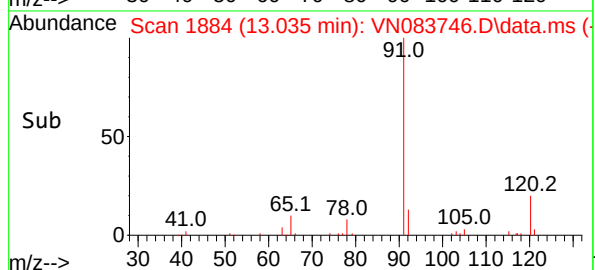
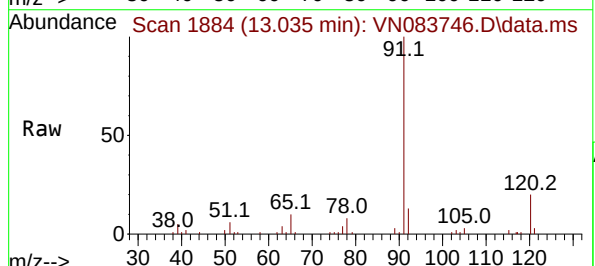
Manual Integrations
APPROVED

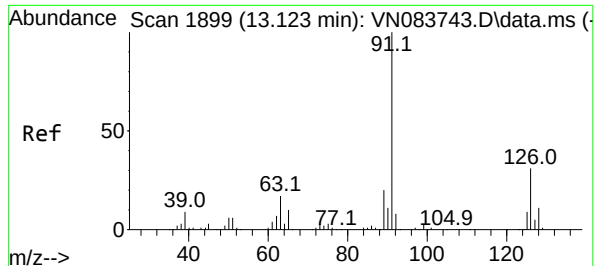
Reviewed By :John Carbone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#78
n-propylbenzene
Concen: 4.799 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 91 Resp: 46229
Ion Ratio Lower Upper
91 100
120 22.1 11.0 33.0





#79

2-Chlorotoluene

Concen: 5.030 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 3089

Ion Ratio Lower Upper

91 100

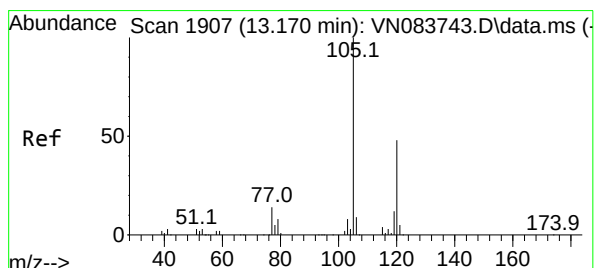
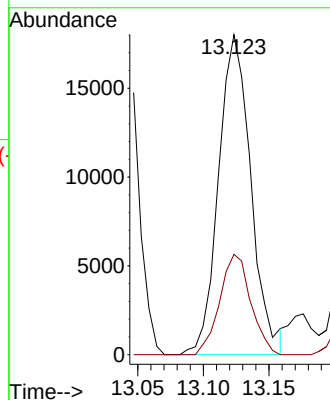
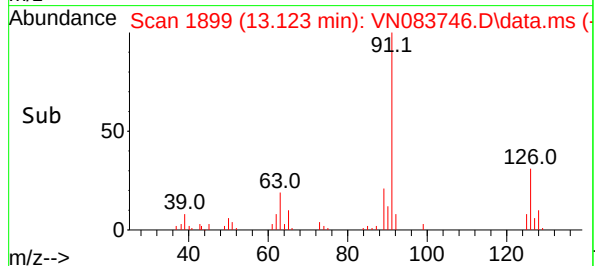
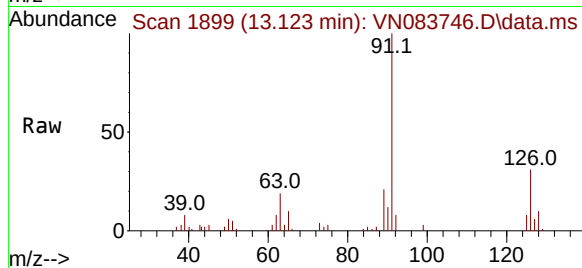
126 30.1 15.4 46.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#80

1,3,5-Trimethylbenzene

Concen: 4.786 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN083746.D

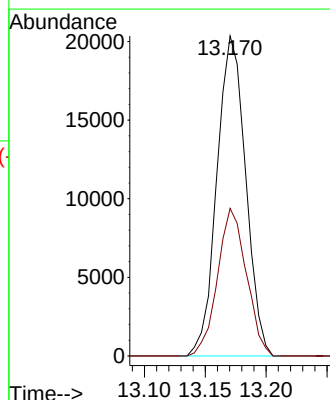
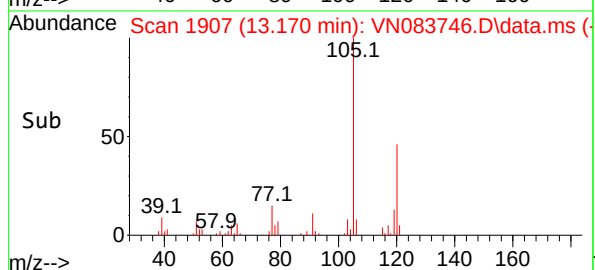
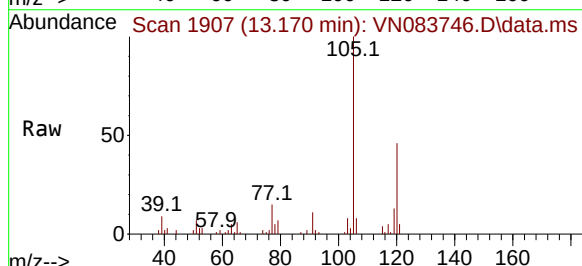
Acq: 10 Sep 2024 10:44

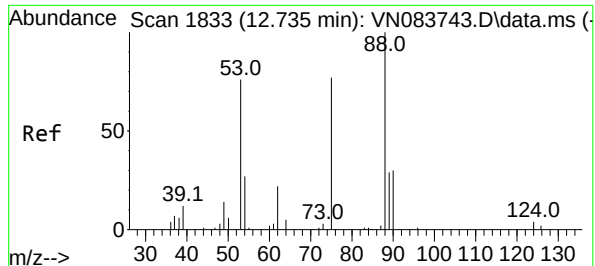
Tgt Ion:105 Resp: 33407

Ion Ratio Lower Upper

105 100

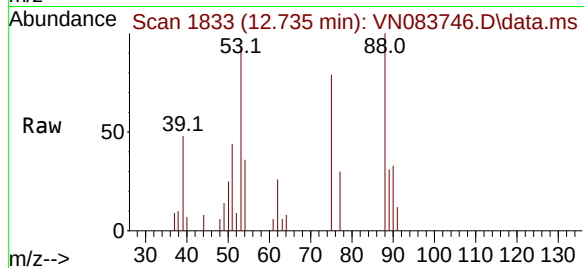
120 46.3 23.4 70.3





#81
trans-1,4-Dichloro-2-butene
Concen: 5.441 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

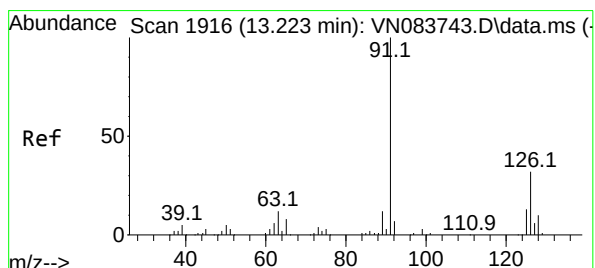
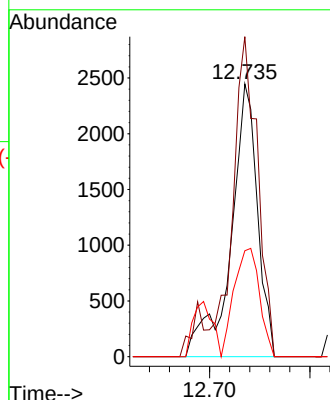
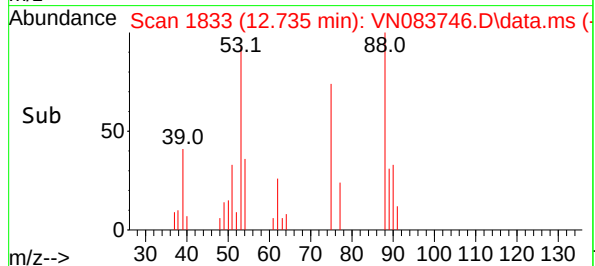
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 75 Resp: 4480
Ion Ratio Lower Upper
75 100
53 108.5 81.2 121.8
89 38.2 35.7 53.5

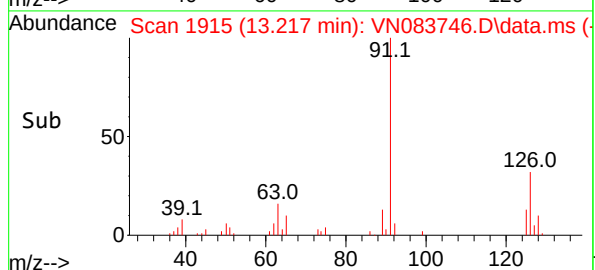
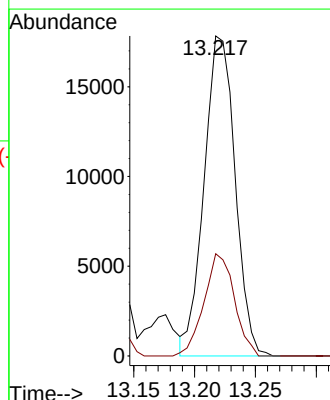
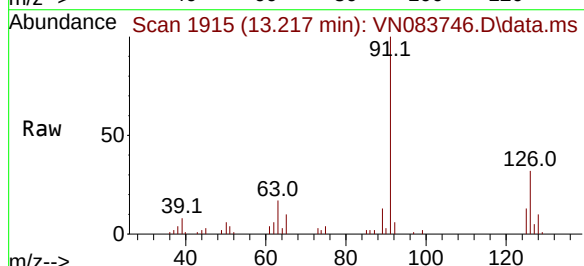
Manual Integrations
APPROVED

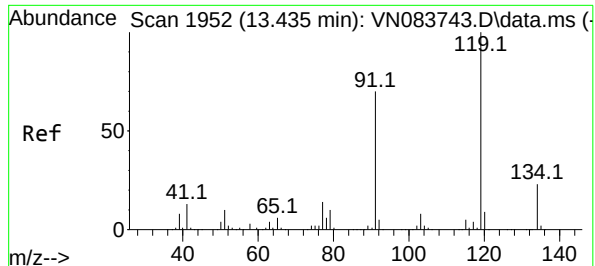
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#82
4-Chlorotoluene
Concen: 5.126 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 91 Resp: 31603
Ion Ratio Lower Upper
91 100
126 31.3 15.4 46.2





#83

tert-Butylbenzene

Concen: 4.777 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

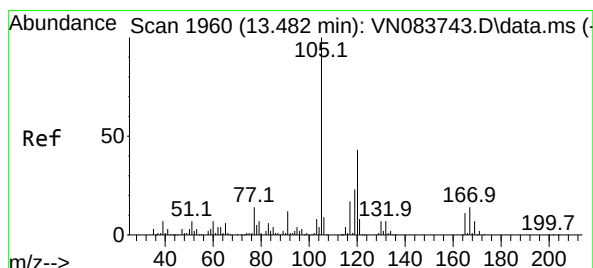
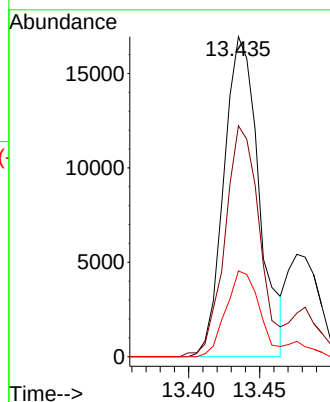
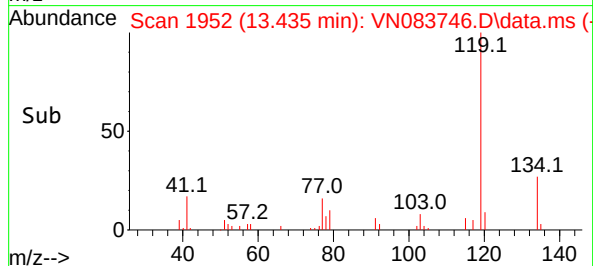
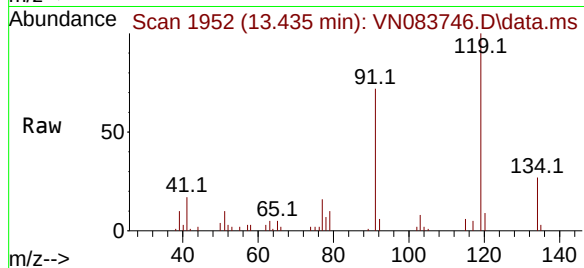
Tgt Ion:	119	Resp:	29174
Ion Ratio	Lower	Upper	
119	100		
91	70.7	34.5	103.6
134	25.5	12.8	38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#84

1,2,4-Trimethylbenzene

Concen: 4.860 ug/l

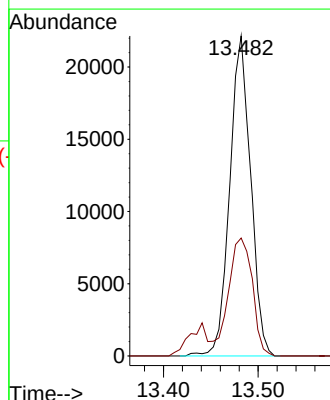
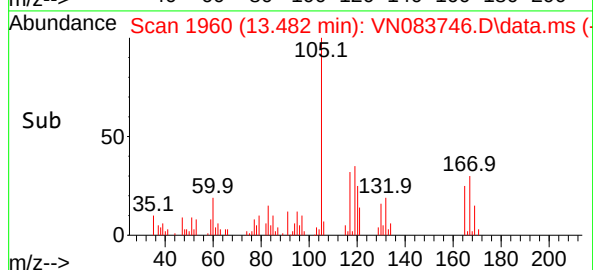
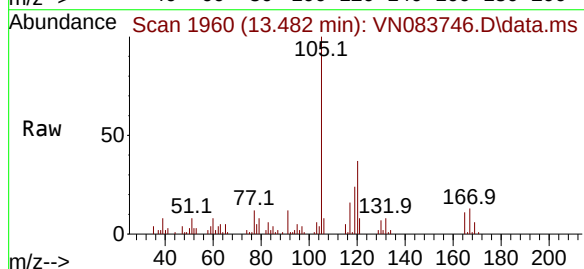
RT: 13.482 min Scan# 1960

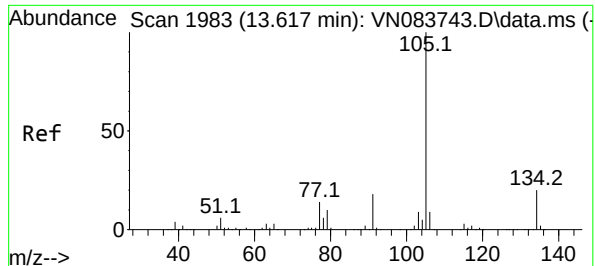
Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Tgt Ion:	105	Resp:	34076
Ion Ratio	Lower	Upper	
105	100		
120	41.6	21.8	65.4





#85

sec-Butylbenzene

Concen: 4.934 ug/l

RT: 13.617 min Scan# 1983

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 39964

Ion Ratio Lower Upper

105 100

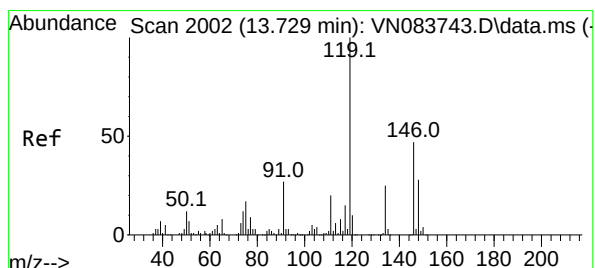
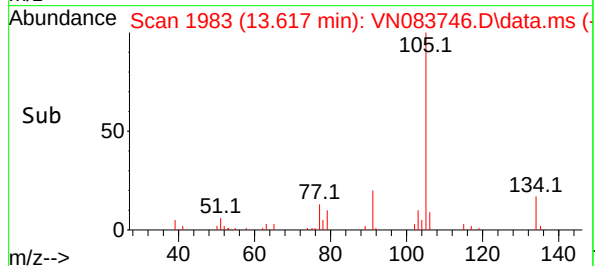
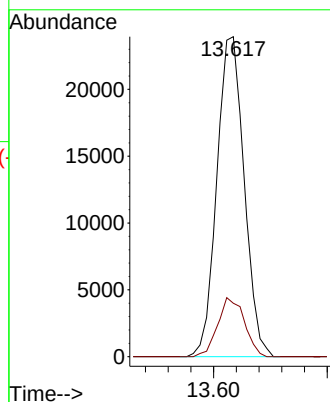
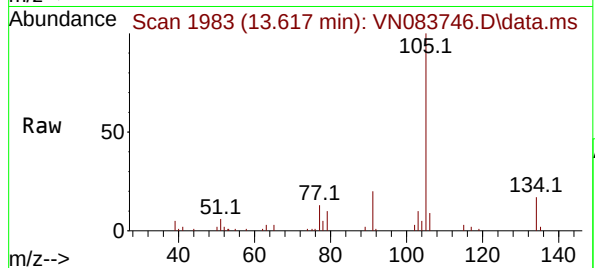
134 18.0 9.7 29.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#86

p-Isopropyltoluene

Concen: 4.931 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

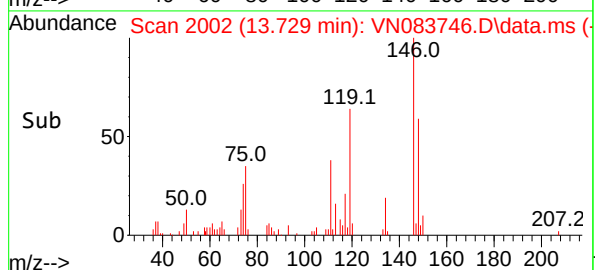
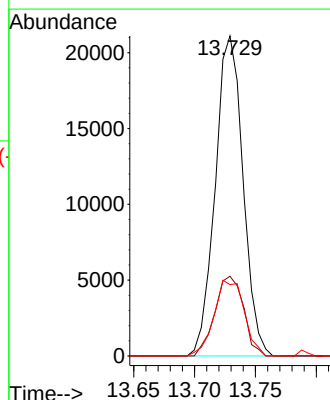
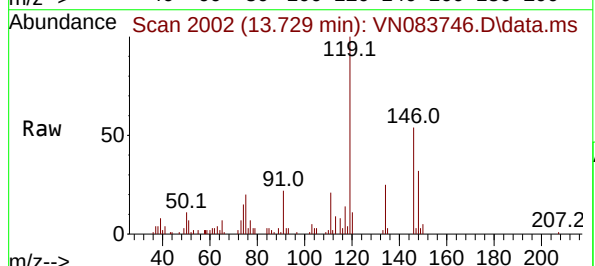
Tgt Ion:119 Resp: 33478

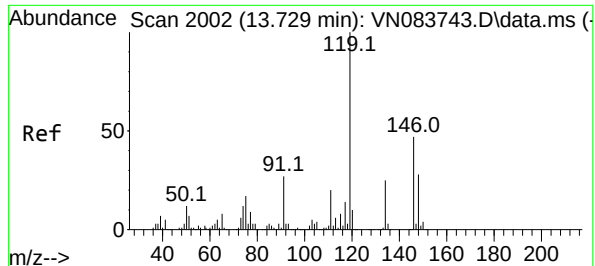
Ion Ratio Lower Upper

119 100

134 25.6 12.8 38.3

91 25.6 12.9 38.7





#87

1,3-Dichlorobenzene

Concen: 5.079 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

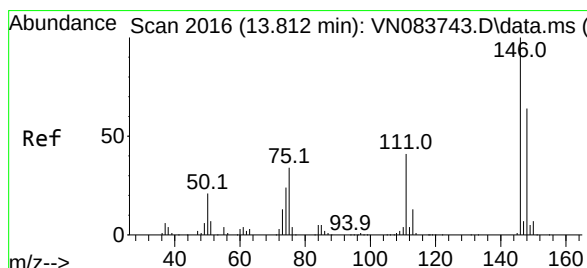
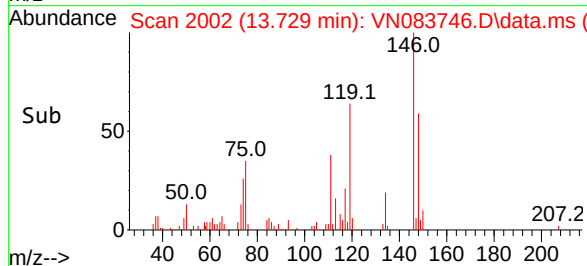
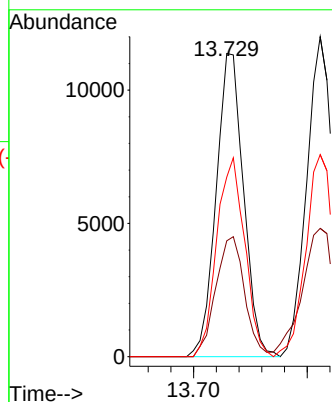
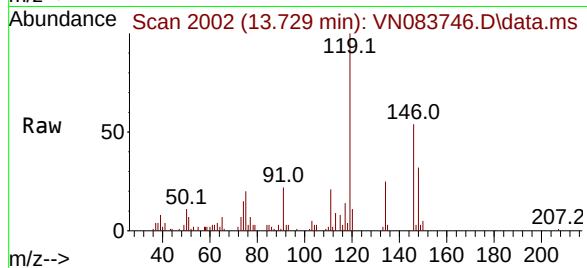
Tgt Ion:	146	Resp:	1910
Ion Ratio	Lower	Upper	
146	100		
111	41.4	21.7	65.1
148	66.8	31.7	95.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#88

1,4-Dichlorobenzene

Concen: 5.126 ug/l

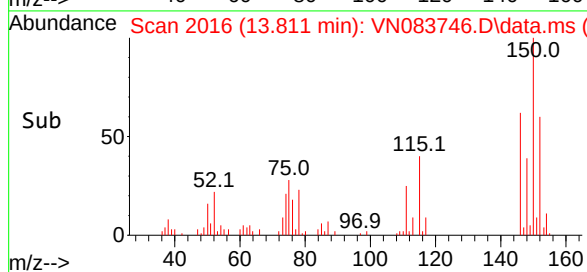
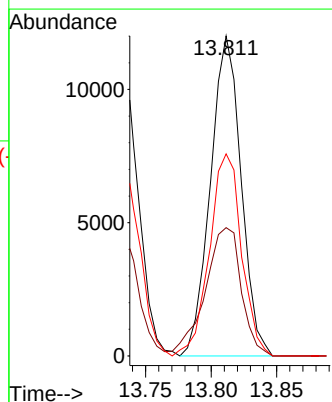
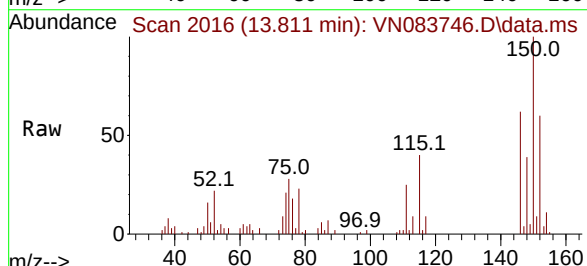
RT: 13.811 min Scan# 2016

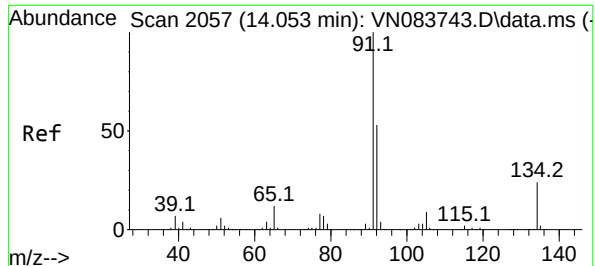
Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Tgt Ion:	146	Resp:	19522
Ion Ratio	Lower	Upper	
146	100		
111	47.4	21.3	64.0
148	65.9	32.0	96.2





#89

n-Butylbenzene

Concen: 4.718 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

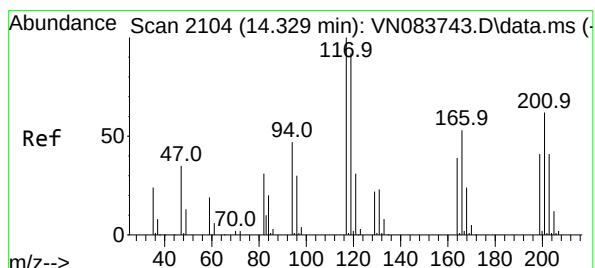
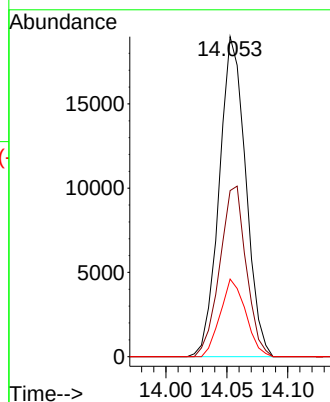
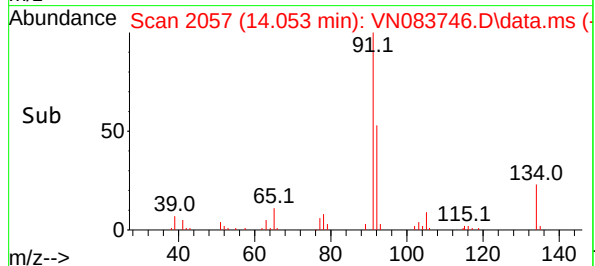
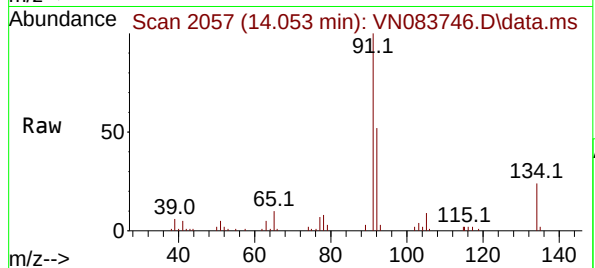
Tgt Ion:	91	Resp:	2875
Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.7	80.1
134	23.3	12.2	36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#90

Hexachloroethane

Concen: 4.910 ug/l

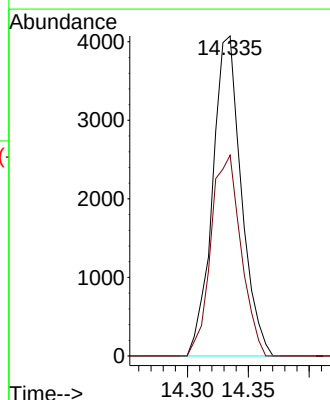
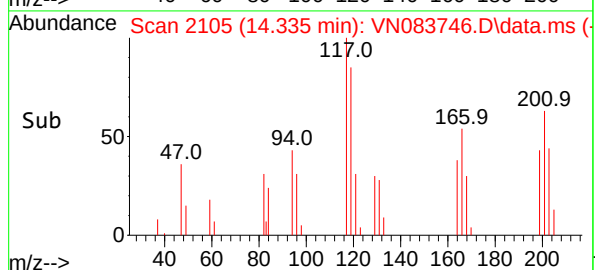
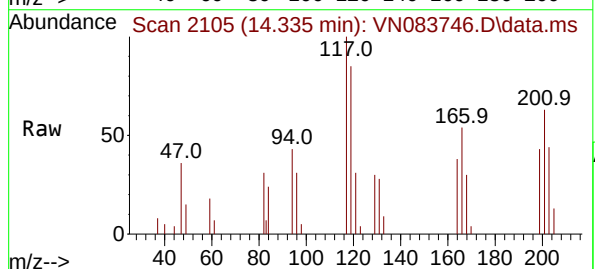
RT: 14.335 min Scan# 2105

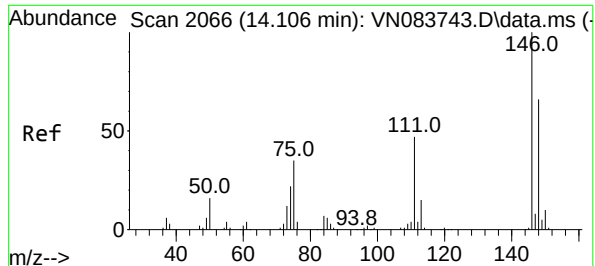
Delta R.T. 0.006 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

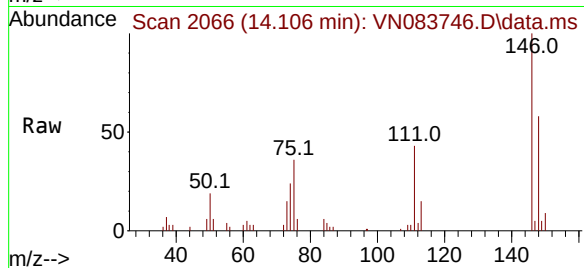
Tgt Ion:	117	Resp:	6701
Ion	Ratio	Lower	Upper
117	100		
201	65.4	32.8	98.3





#91
1,2-Dichlorobenzene
Concen: 5.230 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

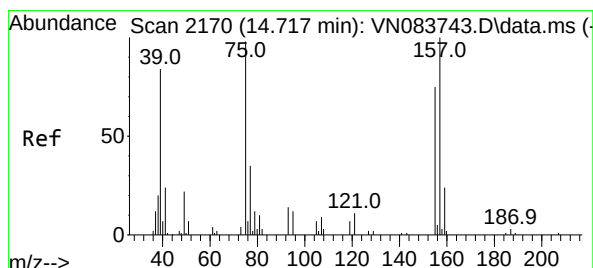
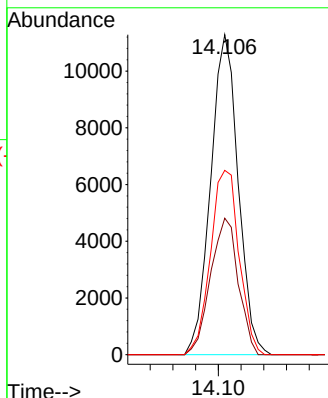
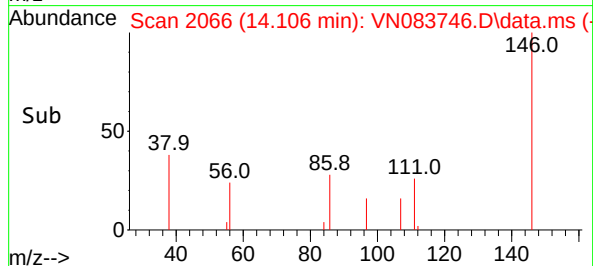
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



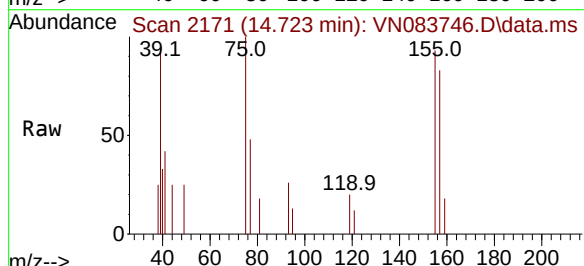
Tgt Ion:146 Resp: 1898
Ion Ratio Lower Upper
146 100
111 43.1 22.8 68.3
148 60.0 32.1 96.5

Manual Integrations
APPROVED

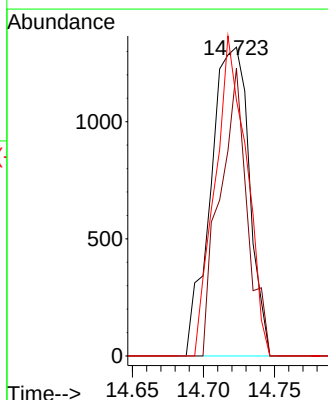
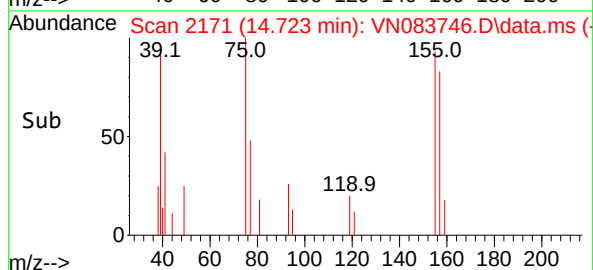
Reviewed By :John Carbone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

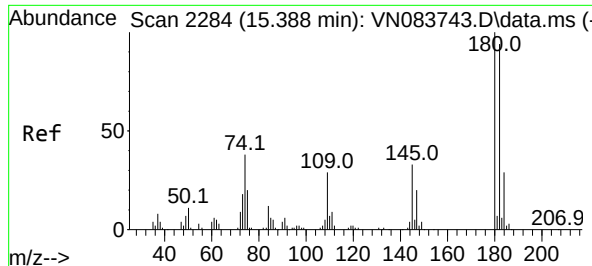


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.135 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44



Tgt Ion: 75 Resp: 2490
Ion Ratio Lower Upper
75 100
155 66.1 35.9 107.7
157 84.5 47.5 142.5





#93

1,2,4-Trichlorobenzene

Concen: 4.983 ug/l

RT: 15.394 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:180 Resp: 970

Ion Ratio Lower Upper

180 100

182 95.7 48.1 144.3

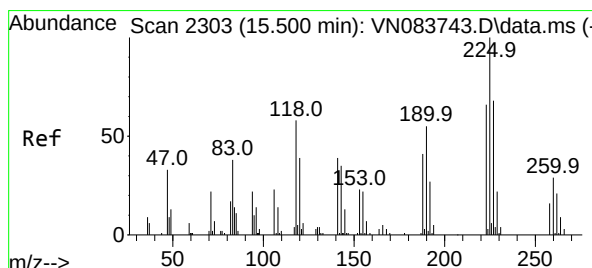
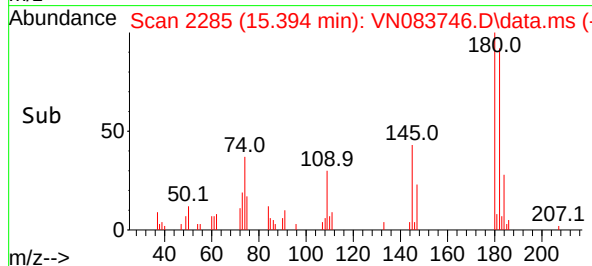
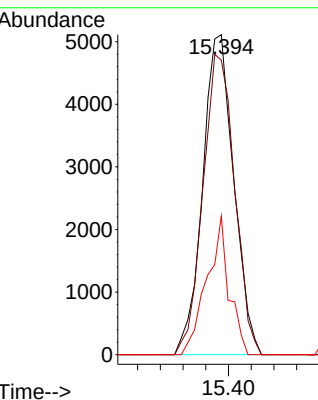
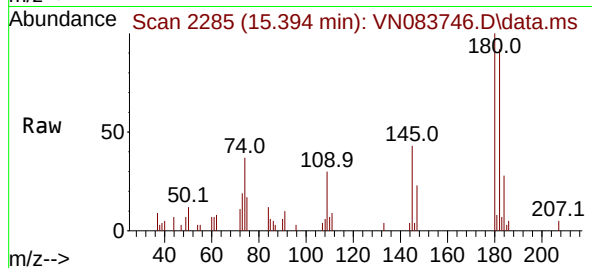
145 30.9 16.9 50.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#94

Hexachlorobutadiene

Concen: 4.821 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN083746.D

Acq: 10 Sep 2024 10:44

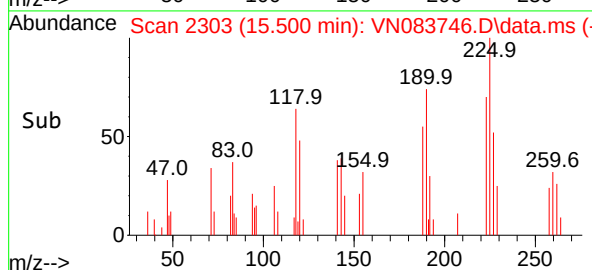
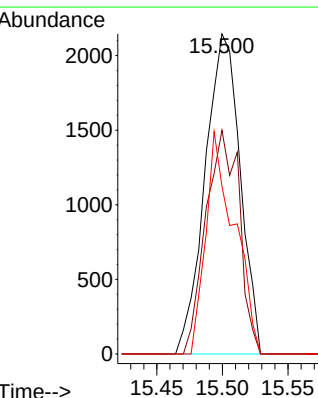
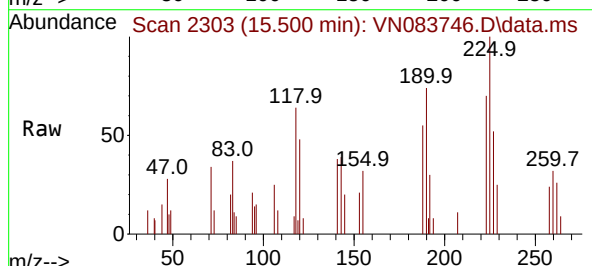
Tgt Ion:225 Resp: 3988

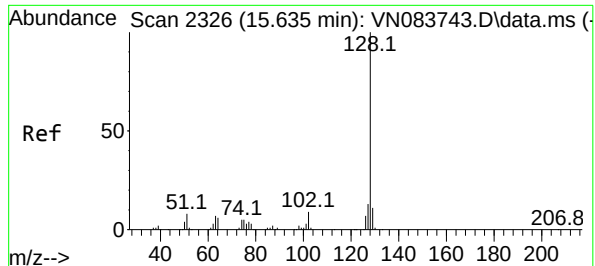
Ion Ratio Lower Upper

225 100

223 66.5 31.9 95.5

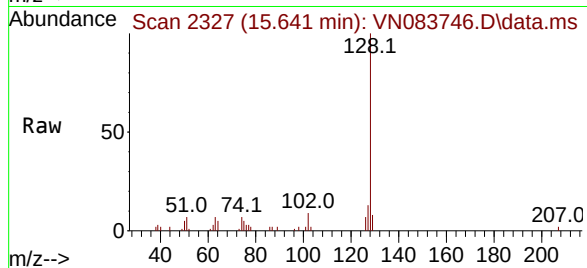
227 56.7 32.0 96.2





#95
Naphthalene
Concen: 5.023 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

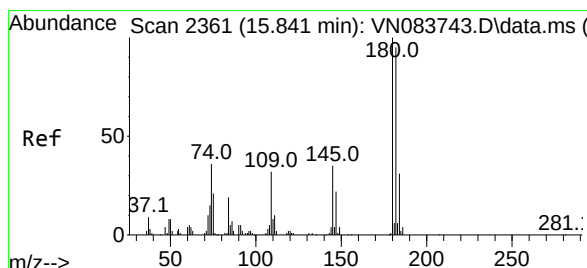
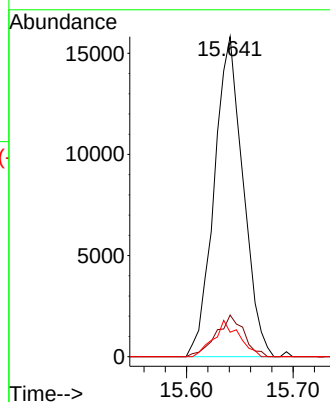
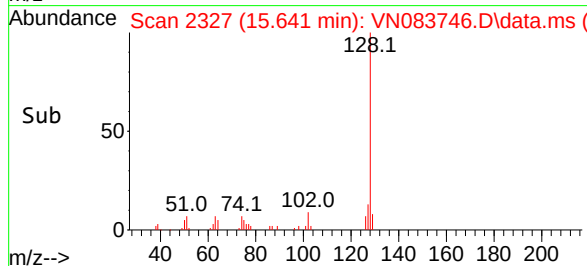
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion:128 Resp: 29769
Ion Ratio Lower Upper
128 100
127 12.5 10.2 15.2
129 10.0 8.7 13.1

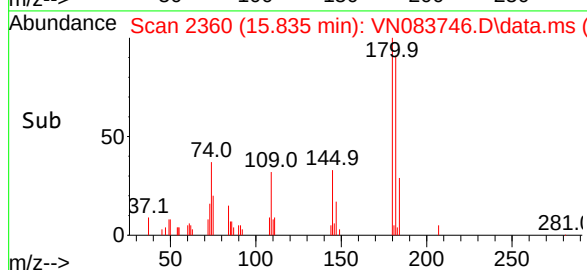
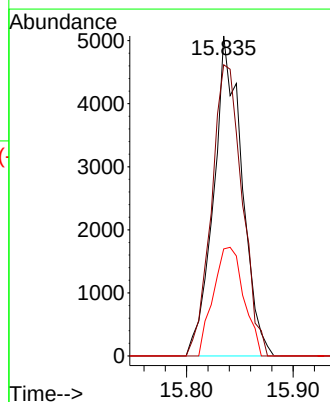
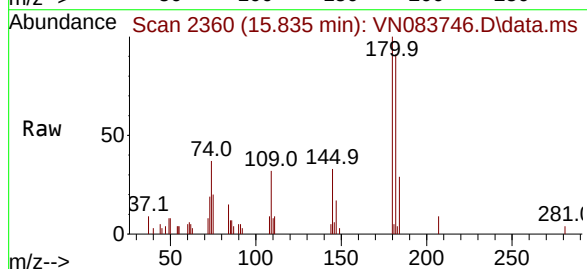
Manual Integrations
APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#96
1,2,3-Trichlorobenzene
Concen: 5.030 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:180 Resp: 9363
Ion Ratio Lower Upper
180 100
182 98.5 47.1 141.4
145 36.5 17.8 53.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
 Data File : VN083747.D
 Acq On : 10 Sep 2024 11:32
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/11/2024
 Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 02:17:23 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 02:15:43 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	149471	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	268939	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	219654	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	91880	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	2.124	85	1767	1.018	ug/l	96
3) Chloromethane	2.359	50	3237m	1.531	ug/l	
4) Vinyl Chloride	2.512	62	1982	1.042	ug/l #	44
6) Chloroethane	3.065	64	1404m	1.064	ug/l	
7) Trichlorofluoromethane	3.471	101	3488	1.080	ug/l	96
8) Diethyl Ether	3.953	74	959	0.886	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.348	101	1583	0.925	ug/l #	65
12) 1,1-Dichloroethene	4.318	96	1527	0.945	ug/l	93
14) Allyl chloride	5.012	41	2756	0.957	ug/l #	80
15) Acrylonitrile	5.724	53	4223	5.145	ug/l	98
16) Acetone	4.436	43	4474	4.952	ug/l	95
17) Carbon Disulfide	4.700	76	5090	1.126	ug/l #	75
18) Methyl Acetate	5.036	43	3089m	1.407	ug/l	
19) Methyl tert-butyl Ether	5.794	73	5672	0.970	ug/l #	83
20) Methylene Chloride	5.277	84	1922	1.040	ug/l #	75
21) trans-1,2-Dichloroethene	5.765	96	1745	1.007	ug/l #	67
22) Diisopropyl ether	6.665	45	5555	0.937	ug/l #	92
23) Vinyl Acetate	6.600	43	19588	4.511	ug/l #	90
24) 1,1-Dichloroethane	6.565	63	3493	1.022	ug/l #	82
25) 2-Butanone	7.489	43	6127	5.160	ug/l #	57
26) 2,2-Dichloropropane	7.489	77	2982	0.948	ug/l	94
27) cis-1,2-Dichloroethene	7.477	96	2052	0.998	ug/l	92
28) Bromochloromethane	7.806	49	1257	0.874	ug/l #	90
29) Tetrahydrofuran	7.853	42	3436	4.893	ug/l	99
30) Chloroform	7.959	83	3528	0.973	ug/l	91
32) 1,1,1-Trichloroethane	8.159	97	3233	0.969	ug/l #	52
36) 1,1-Dichloropropene	8.371	75	2706	1.044	ug/l	85
37) Ethyl Acetate	7.547	43	2070	0.880	ug/l #	88
38) Carbon Tetrachloride	8.365	117	2768	0.942	ug/l #	76
39) Methylcyclohexane	9.606	83	2729	0.925	ug/l #	84
40) Benzene	8.594	78	7797	1.000	ug/l #	90
41) Methacrylonitrile	7.765	41	1496m	1.075	ug/l	
42) 1,2-Dichloroethane	8.671	62	2671	0.916	ug/l	83
43) Isopropyl Acetate	8.683	43	4202	0.986	ug/l #	98
44) Trichloroethene	9.347	130	1904	1.054	ug/l	99
45) 1,2-Dichloropropane	9.630	63	1824	0.968	ug/l #	83

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
 Data File : VN083747.D
 Acq On : 10 Sep 2024 11:32
 Operator : JC\MD
 Sample : VSTDIC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 02:17:23 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M

Quant Title : SW846 8260

QLast Update : Wed Sep 11 02:15:43 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.712	93	1144	0.866	ug/l	95
47) Bromodichloromethane	9.888	83	2654	0.929	ug/l #	88
48) Methyl methacrylate	9.688	41	1957	0.968	ug/l	98
49) 1,4-Dioxane	9.700	88	754	22.664	ug/l #	60
51) 4-Methyl-2-Pentanone	10.447	43	10889	4.693	ug/l	98
52) Toluene	10.624	92	4412	0.925	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	2794	0.965	ug/l	91
54) cis-1,3-Dichloropropene	10.312	75	2742	0.901	ug/l	90
55) 1,1,2-Trichloroethane	11.024	97	1858	1.043	ug/l #	65
56) Ethyl methacrylate	10.871	69	2275	0.830	ug/l	96
57) 1,3-Dichloropropane	11.165	76	2755	0.900	ug/l	93
58) 2-Chloroethyl Vinyl ether	10.159	63	3831	3.880	ug/l	98
59) 2-Hexanone	11.194	43	7463	4.348	ug/l	95
60) Dibromochloromethane	11.353	129	1813	0.910	ug/l	92
61) 1,2-Dibromoethane	11.471	107	1838	1.035	ug/l	88
64) Tetrachloroethene	11.106	164	1497	1.025	ug/l	86
65) Chlorobenzene	11.888	112	5253	1.076	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.953	131	1672	0.988	ug/l #	65
67) Ethyl Benzene	11.965	91	8403	0.969	ug/l	91
68) m/p-Xylenes	12.076	106	6267	1.946	ug/l	95
69) o-Xylene	12.394	106	2885	0.926	ug/l	98
70) Styrene	12.412	104	4834	0.945	ug/l	99
71) Bromoform	12.576	173	981	0.860	ug/l #	92
73) Isopropylbenzene	12.694	105	6908	0.972	ug/l	99
74) N-amyl acetate	12.494	43	3100	1.022	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.935	83	2386	1.142	ug/l	84
76) 1,2,3-Trichloropropane	12.988	75	2066m	1.114	ug/l	
77) Bromobenzene	12.982	156	1996	1.167	ug/l	97
78) n-propylbenzene	13.035	91	8379	1.013	ug/l	98
79) 2-Chlorotoluene	13.123	91	5437	1.031	ug/l	95
80) 1,3,5-Trimethylbenzene	13.170	105	6080	1.015	ug/l	96
82) 4-Chlorotoluene	13.218	91	5495	1.038	ug/l	92
83) tert-Butylbenzene	13.435	119	5311	1.013	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	5912	0.982	ug/l	94
85) sec-Butylbenzene	13.618	105	6408	0.922	ug/l	93
86) p-Isopropyltoluene	13.729	119	5592	0.959	ug/l	95
87) 1,3-Dichlorobenzene	13.729	146	3851	1.193	ug/l	98
88) 1,4-Dichlorobenzene	13.818	146	3958m	1.210	ug/l	
89) n-Butylbenzene	14.053	91	5621	1.074	ug/l	93
90) Hexachloroethane	14.335	117	1285	1.097	ug/l	81
91) 1,2-Dichlorobenzene	14.106	146	3418	1.097	ug/l	90
92) 1,2-Dibromo-3-Chloropr...	14.717	75	404	0.970	ug/l #	66
93) 1,2,4-Trichlorobenzene	15.394	180	1907	1.140	ug/l	90
94) Hexachlorobutadiene	15.500	225	848	1.194	ug/l #	47
95) Naphthalene	15.641	128	5160	1.014	ug/l	97
96) 1,2,3-Trichlorobenzene	15.841	180	1803	1.128	ug/l	92

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

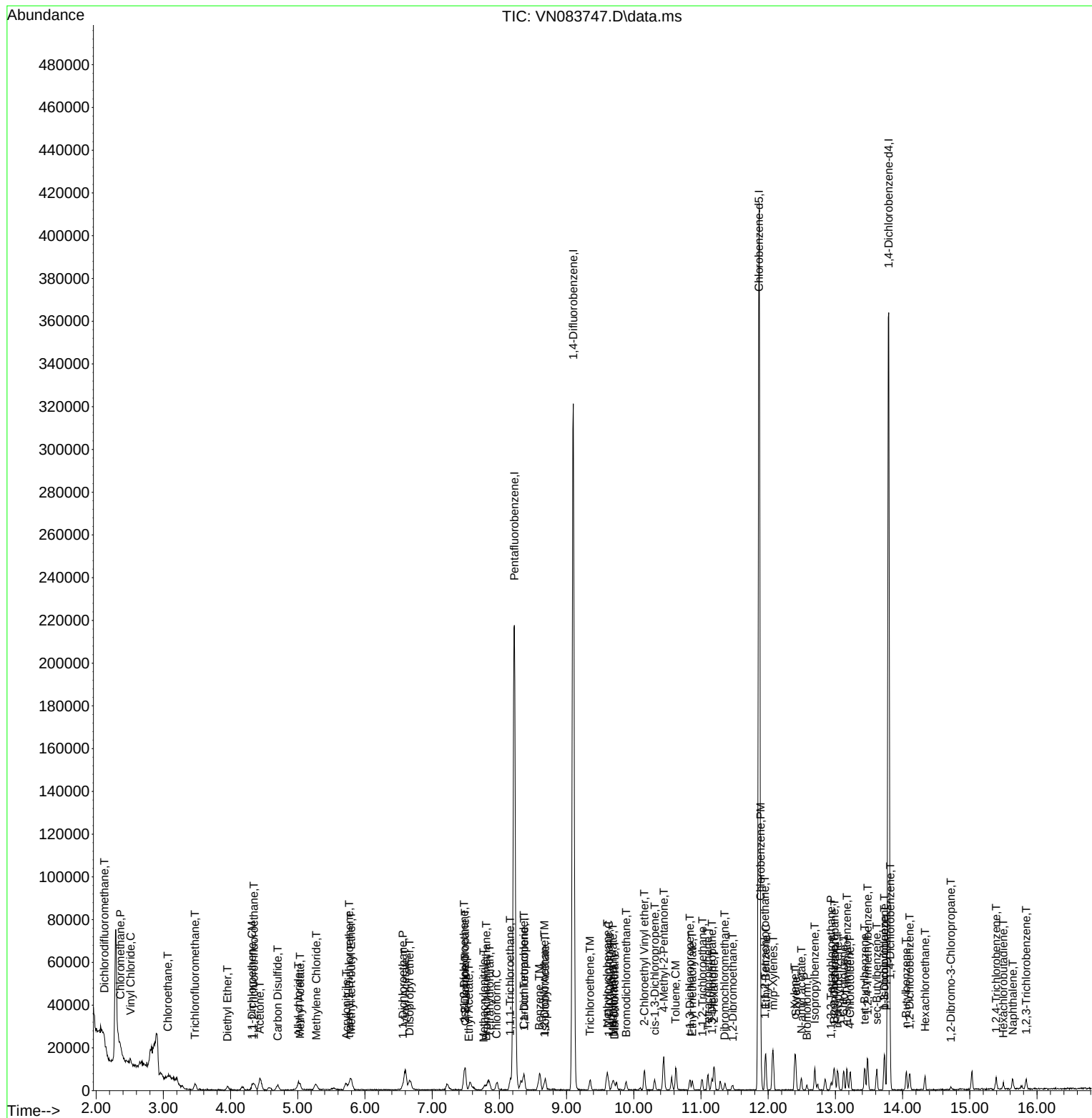

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Data File : VN083747.D  
Acq On    : 10 Sep 2024   11:32  
Operator  : JC\MD  
Sample    : VSTDIC001  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 8   Sample Multiplier: 1
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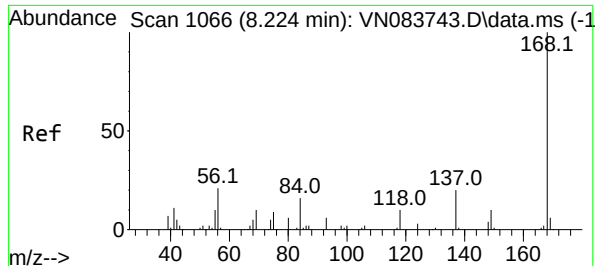
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

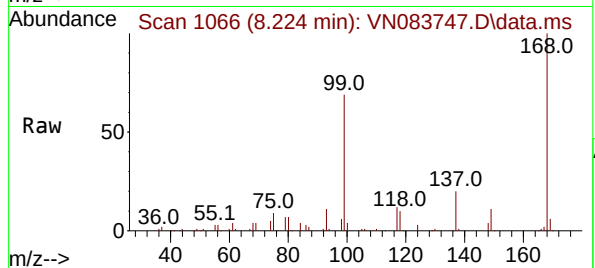
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:15:43 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

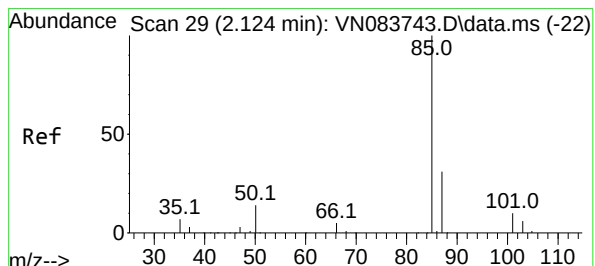
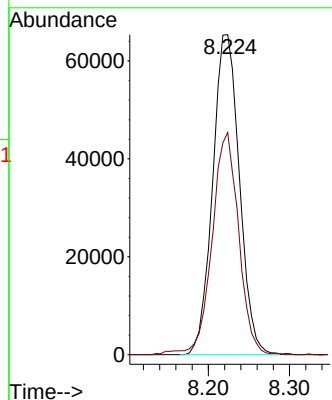
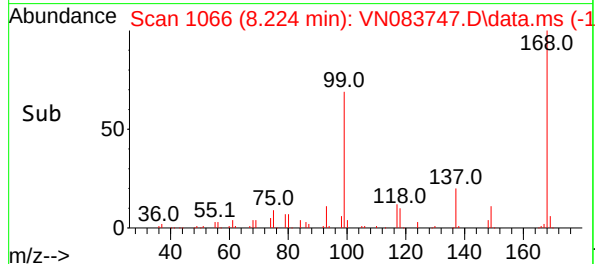
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion:168 Resp: 14947
Ion Ratio Lower Upper
168 100
99 69.0 54.2 81.2

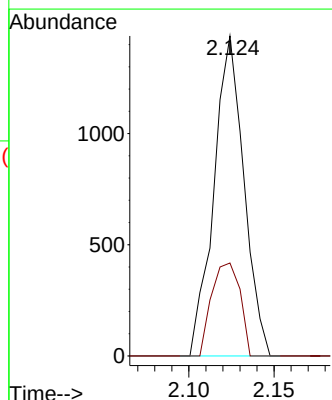
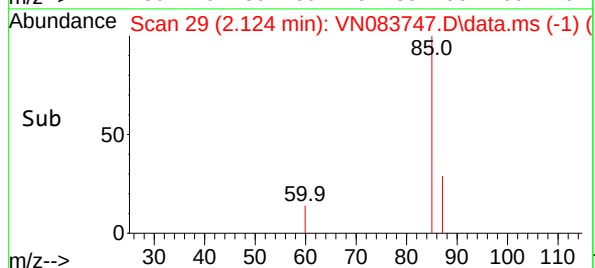
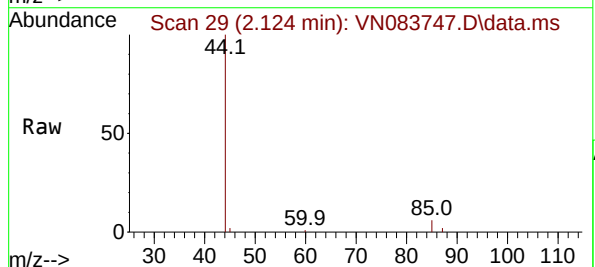
Manual Integrations
APPROVED

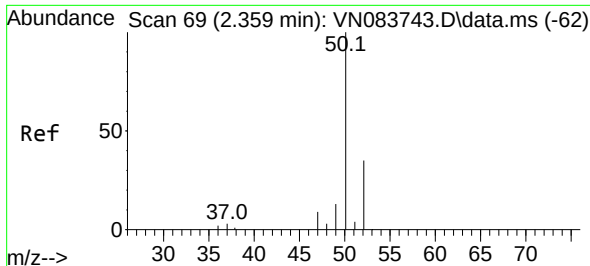
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#2
Dichlorodifluoromethane
Concen: 1.018 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

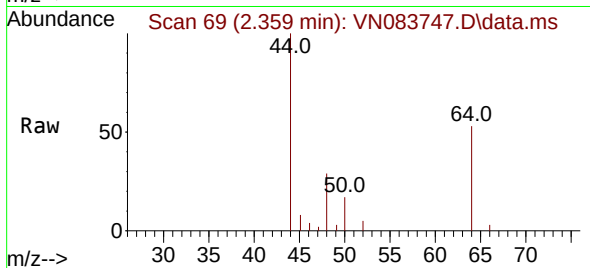
Tgt Ion: 85 Resp: 1767
Ion Ratio Lower Upper
85 100
87 29.0 15.7 47.0





#3
Chloromethane
Concen: 1.531 ug/l m
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

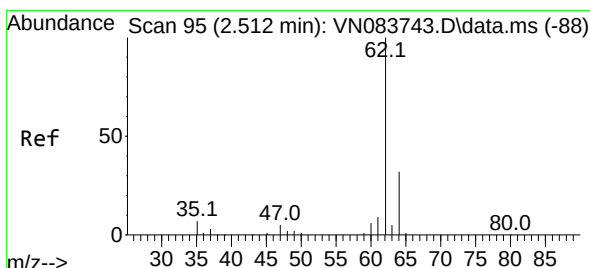
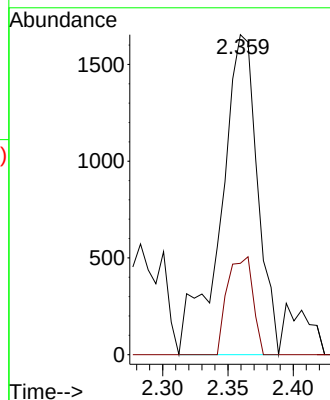
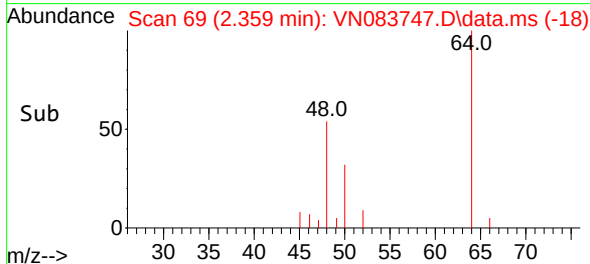
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 50 Resp: 323
Ion Ratio Lower Upper
50 100
52 28.5 27.2 40.8

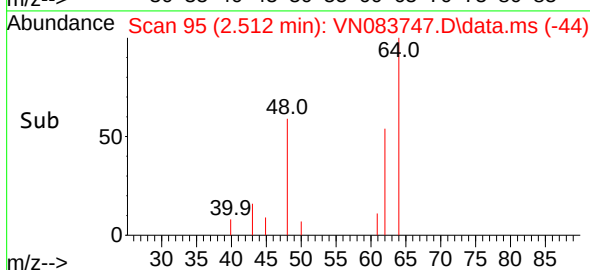
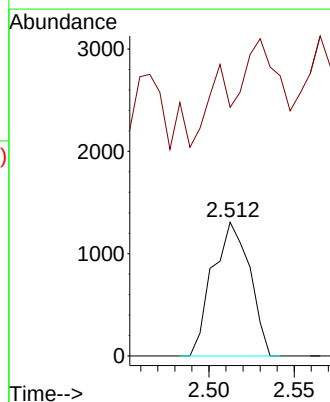
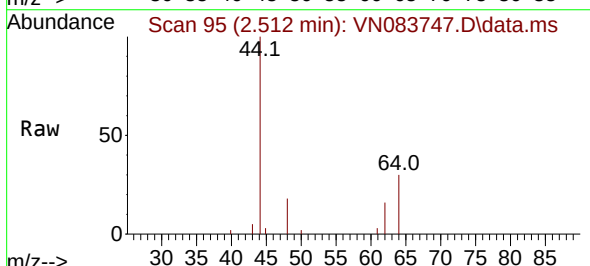
Manual Integrations
APPROVED

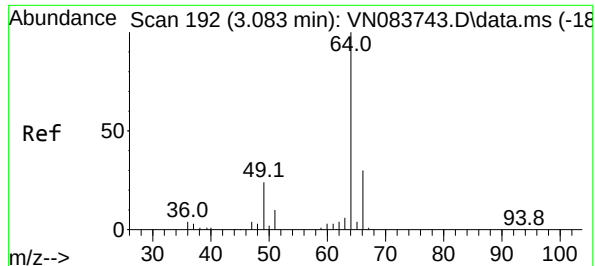
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#4
Vinyl Chloride
Concen: 1.042 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

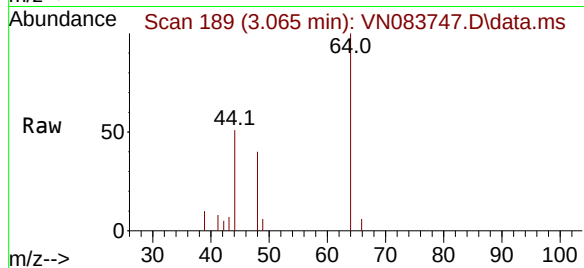
Tgt Ion: 62 Resp: 1982
Ion Ratio Lower Upper
62 100
64 0.0 24.7 37.1#





#6
Chloroethane
Concen: 1.064 ug/l m
RT: 3.065 min Scan# 189
Delta R.T. -0.018 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

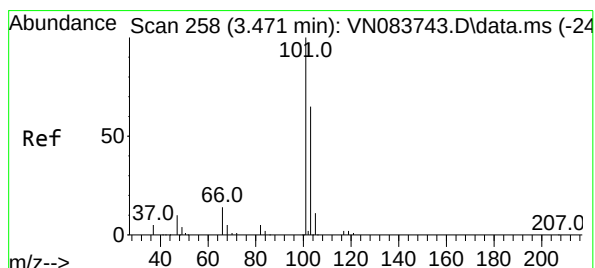
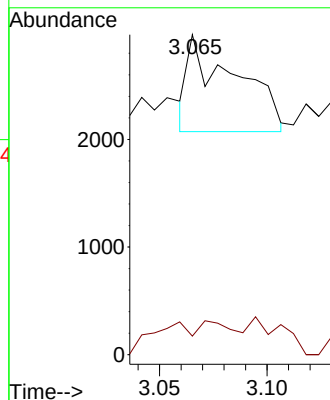
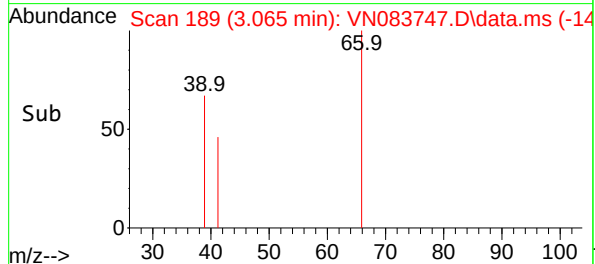
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 64 Resp: 1404
Ion Ratio Lower Upper
64 100
66 5.8 23.9 35.9

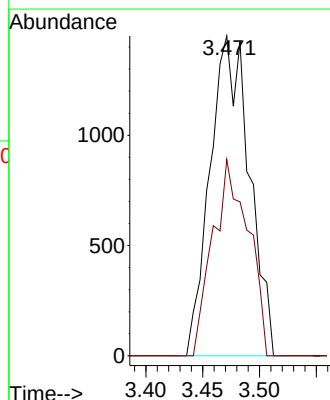
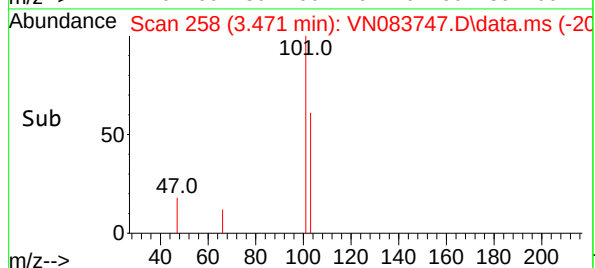
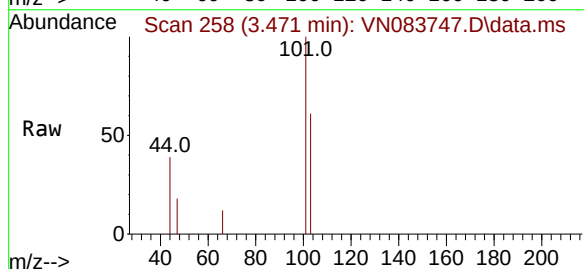
Manual Integrations
APPROVED

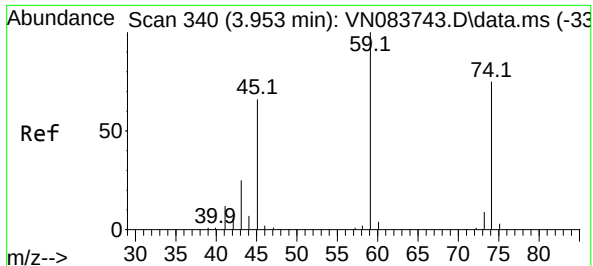
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#7
Trichlorofluoromethane
Concen: 1.080 ug/l
RT: 3.471 min Scan# 258
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:101 Resp: 3488
Ion Ratio Lower Upper
101 100
103 61.4 51.4 77.0



#8
Diethyl Ether

Concen: 0.886 ug/l

RT: 3.953 min Scan# 340

Delta R.T. 0.000 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 74 Resp: 959

Ion Ratio Lower Upper

74 100

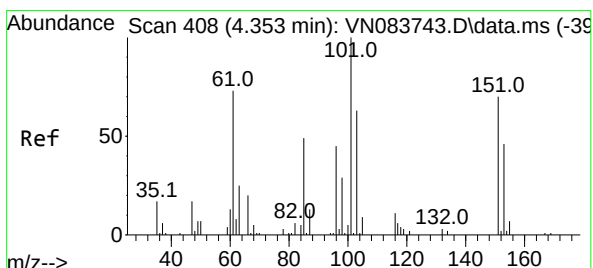
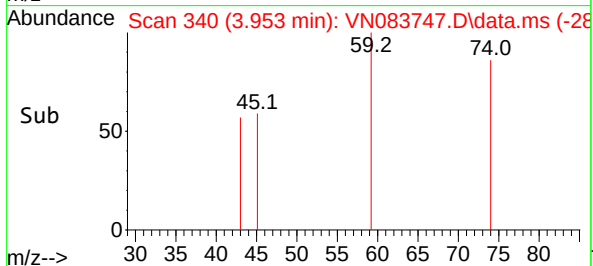
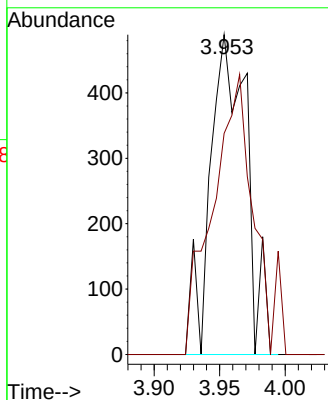
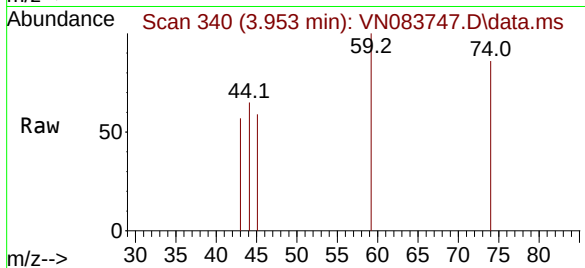
45 98.6 46.7 140.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.925 ug/l

RT: 4.348 min Scan# 407

Delta R.T. -0.006 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

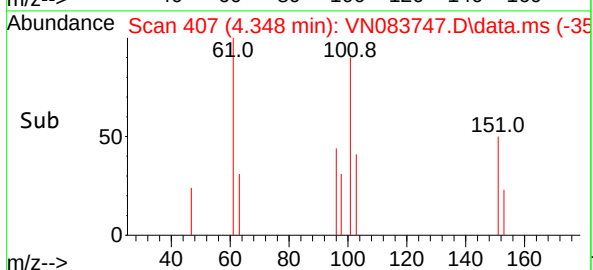
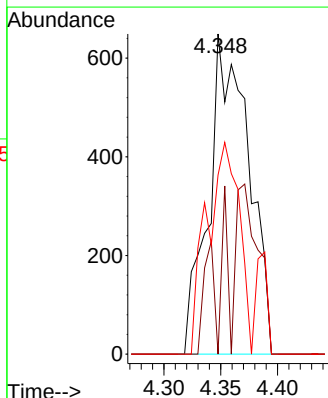
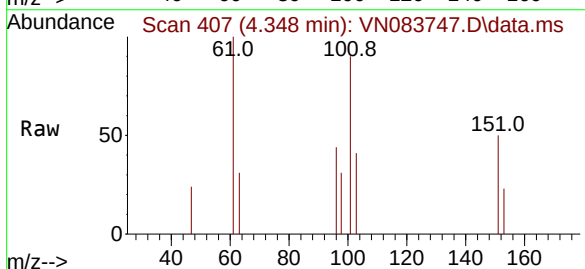
Tgt Ion:101 Resp: 1583

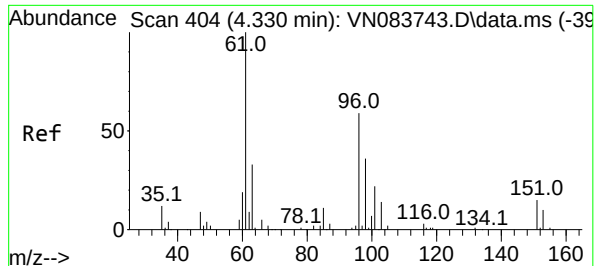
Ion Ratio Lower Upper

101 100

85 9.0 36.2 54.4#

151 53.9 57.7 86.5#





#12

1,1-Dichloroethene

Concen: 0.945 ug/l

RT: 4.318 min Scan# 40

Delta R.T. -0.012 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 96 Resp: 152

Ion Ratio Lower Upper

96 100

61 171.7 143.4 215.0

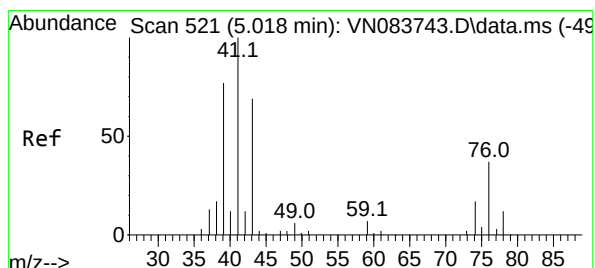
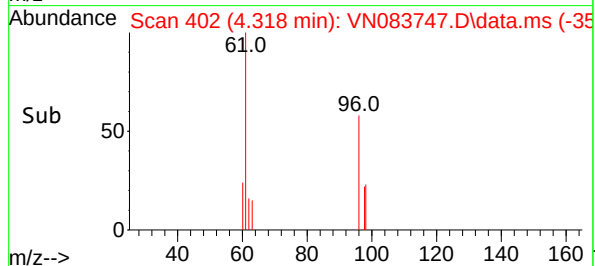
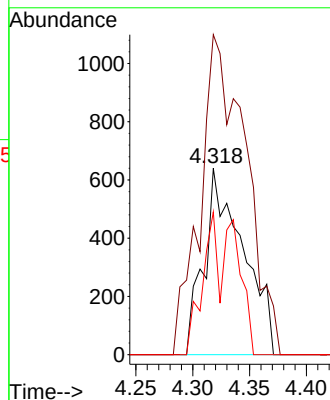
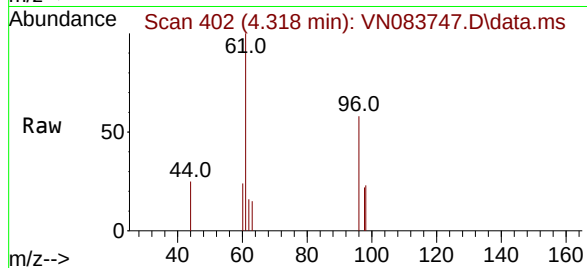
98 76.6 52.7 79.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#14

Allyl chloride

Concen: 0.957 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.006 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

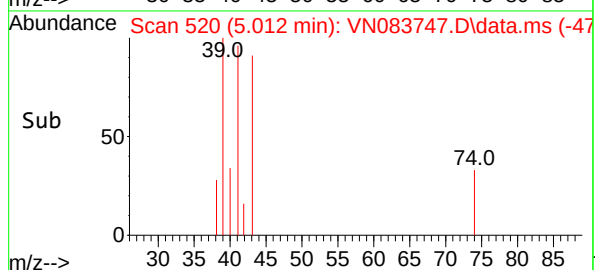
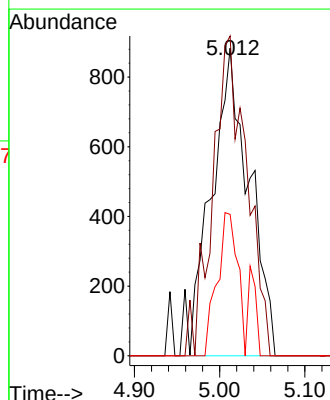
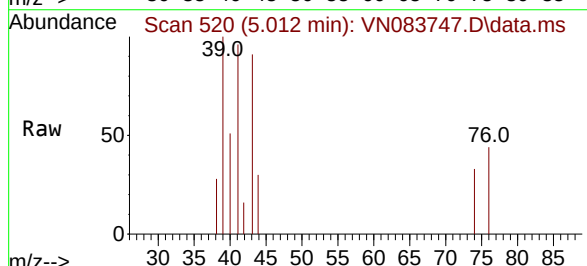
Tgt Ion: 41 Resp: 2756

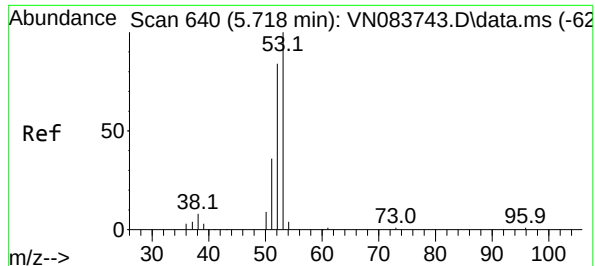
Ion Ratio Lower Upper

41 100

39 92.7 59.3 88.9#

76 24.6 27.7 41.5#





#15

Acrylonitrile

Concen: 5.145 ug/l

RT: 5.724 min Scan# 641

Delta R.T. 0.006 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

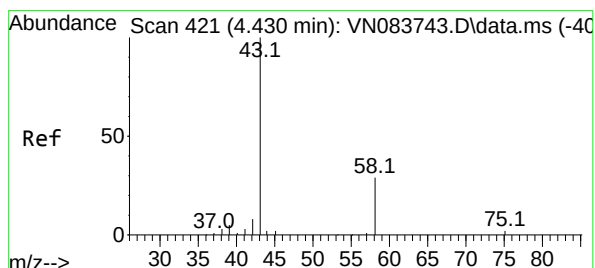
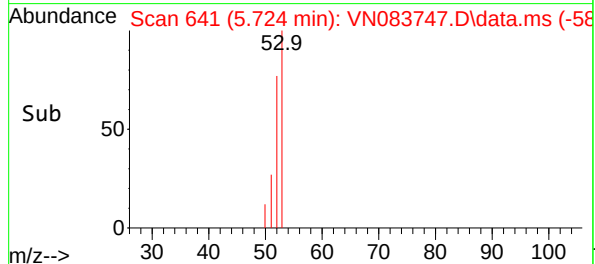
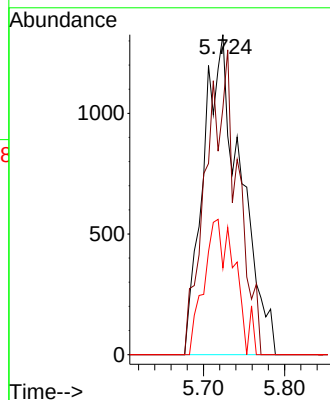
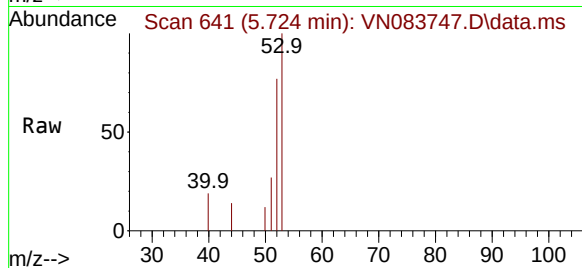
Tgt Ion:	53	Resp:	422
Ion	Ratio	Lower	Upper
53	100		
52	81.6	66.1	99.1
51	35.4	29.6	44.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#16

Acetone

Concen: 4.952 ug/l

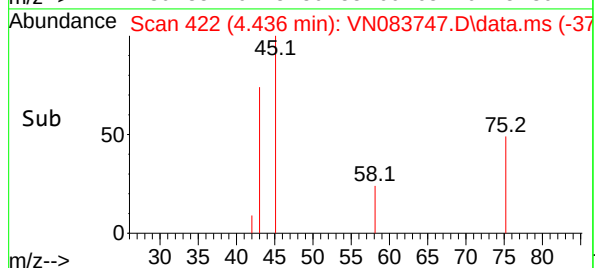
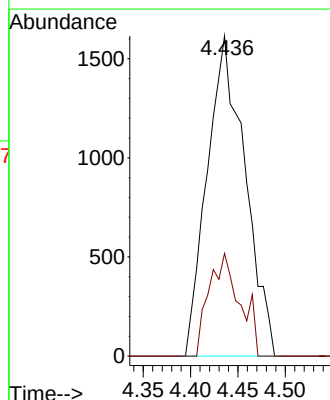
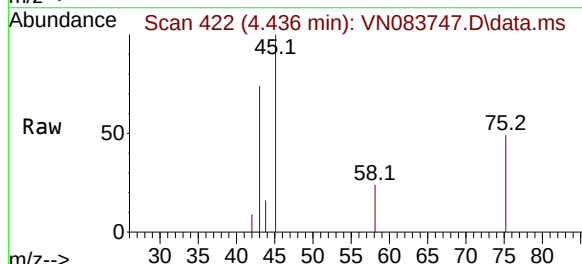
RT: 4.436 min Scan# 422

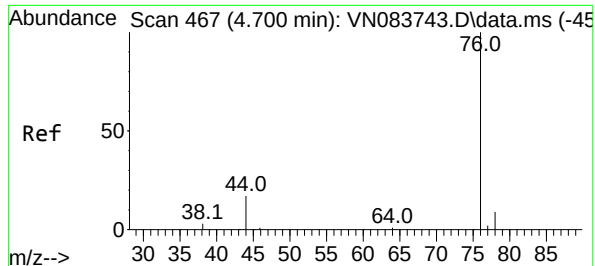
Delta R.T. 0.006 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Tgt Ion:	43	Resp:	4474
Ion	Ratio	Lower	Upper
43	100		
58	32.1	23.7	35.5





#17

Carbon Disulfide

Concen: 1.126 ug/l

RT: 4.700 min Scan# 4

Delta R.T. 0.000 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 76 Resp: 5090

Ion Ratio Lower Upper

76 100

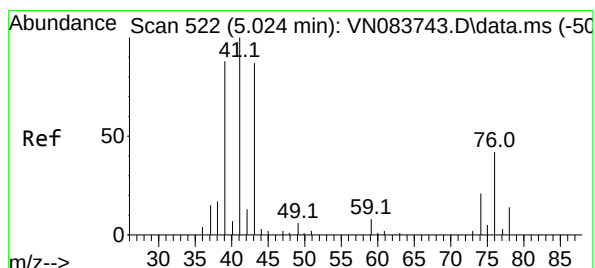
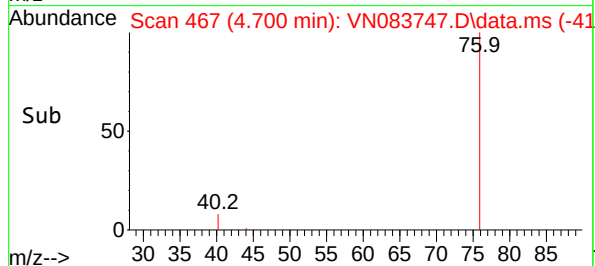
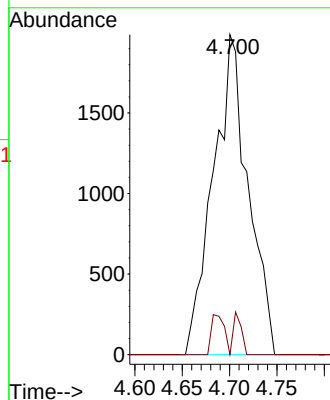
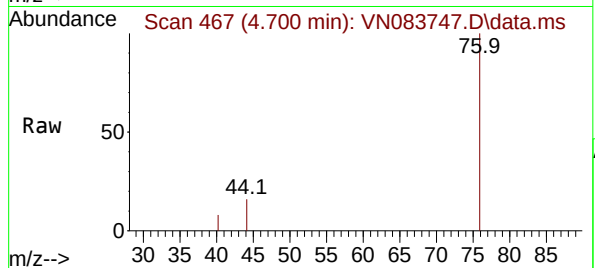
78 0.0 7.1 10.7

Manual Integrations

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Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#18

Methyl Acetate

Concen: 1.407 ug/l m

RT: 5.036 min Scan# 524

Delta R.T. 0.012 min

Lab File: VN083747.D

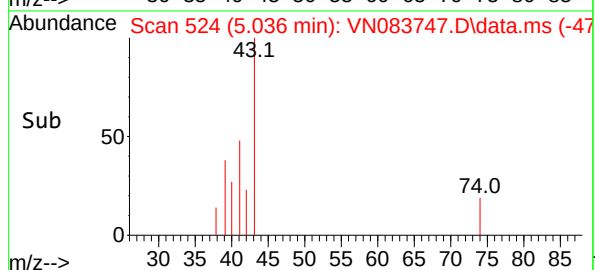
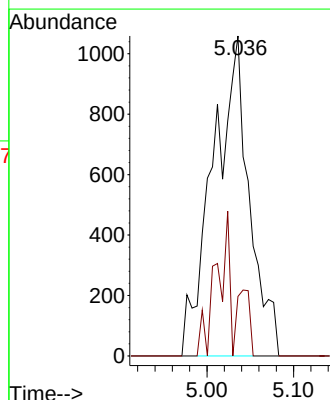
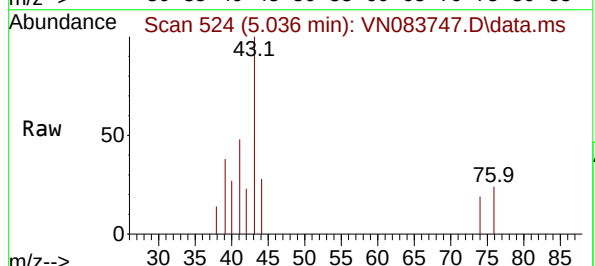
Acq: 10 Sep 2024 11:32

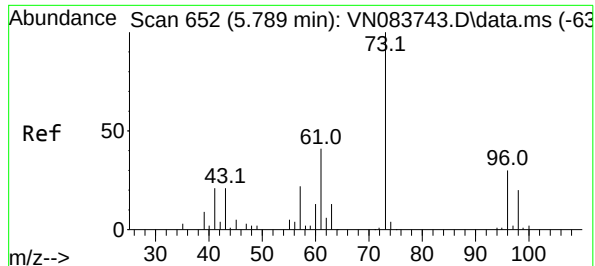
Tgt Ion: 43 Resp: 3089

Ion Ratio Lower Upper

43 100

74 16.2 19.0 28.4





#19

Methyl tert-butyl Ether

Concen: 0.970 ug/l

RT: 5.794 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 73 Resp: 5672

Ion Ratio Lower Upper

73 100

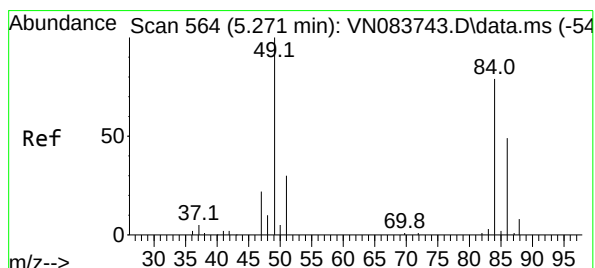
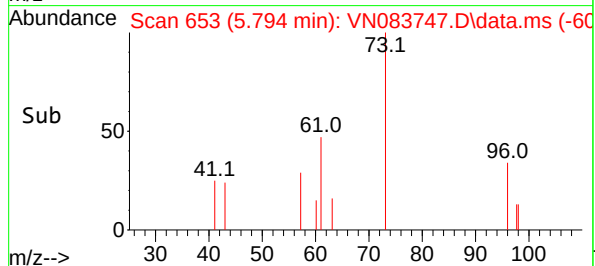
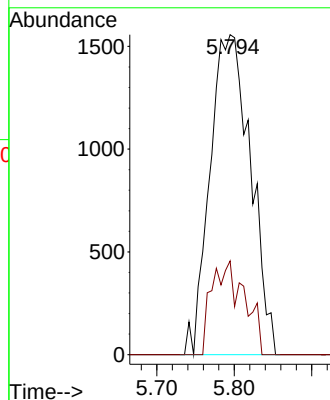
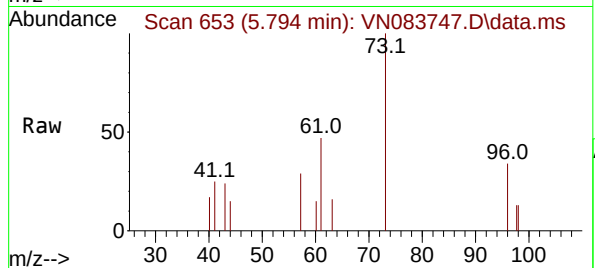
57 29.3 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#20

Methylene Chloride

Concen: 1.040 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Tgt Ion: 84 Resp: 1922

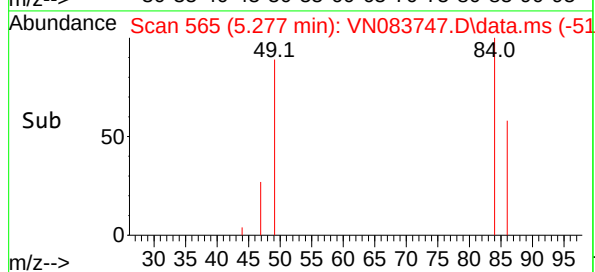
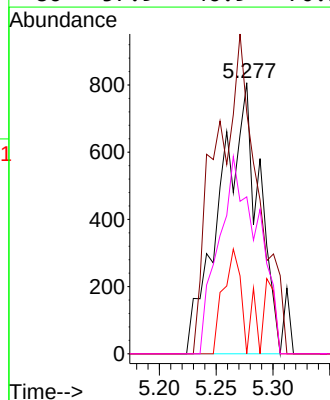
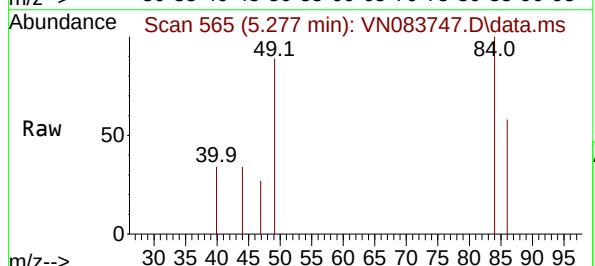
Ion Ratio Lower Upper

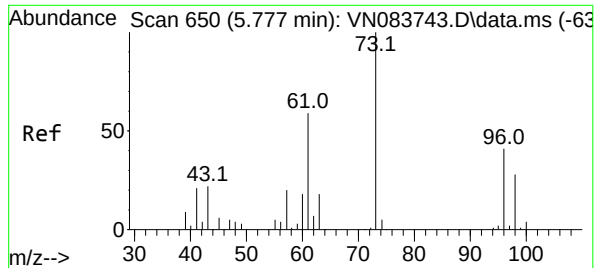
84 100

49 89.0 93.4 140.0#

51 0.0 29.2 43.8#

86 57.9 46.9 70.3





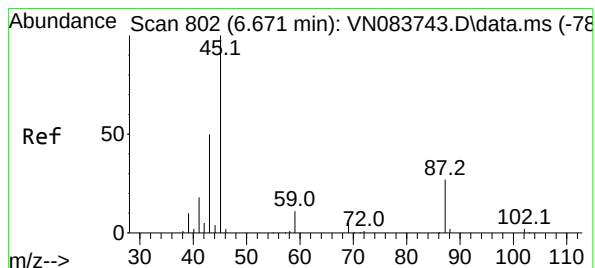
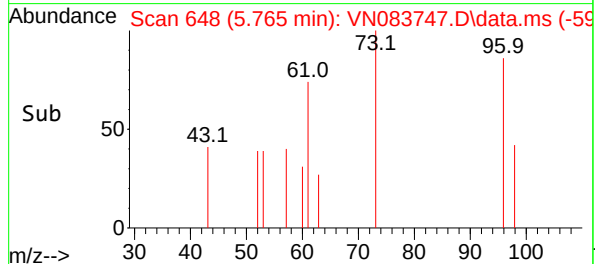
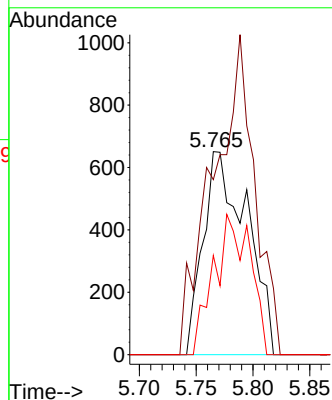
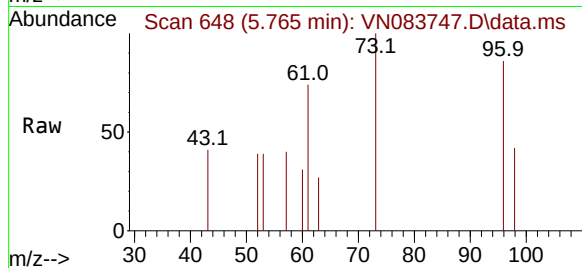
#21
trans-1,2-Dichloroethene
Concen: 1.007 ug/l
RT: 5.765 min Scan# 648
Delta R.T. -0.012 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 1749
Ion Ratio Lower Upper
96 100
61 86.2 106.0 159.0
98 48.8 52.2 78.2

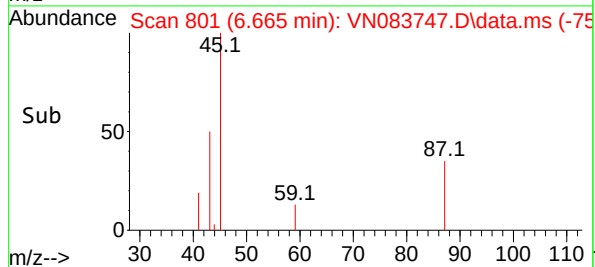
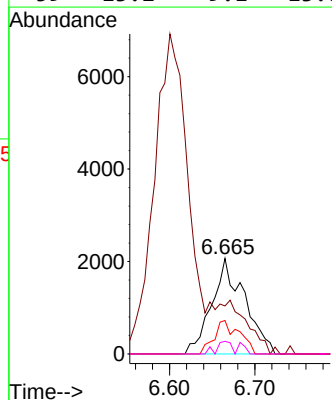
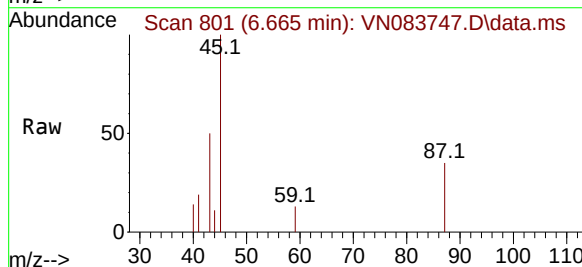
Manual Integrations
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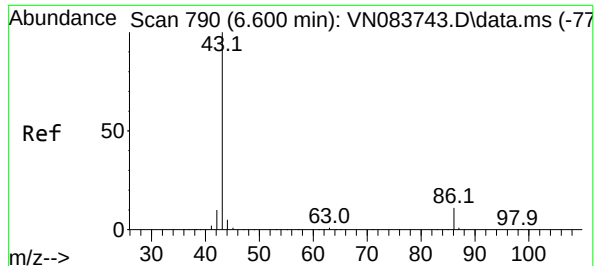
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#22
Diisopropyl ether
Concen: 0.937 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 45 Resp: 5555
Ion Ratio Lower Upper
45 100
43 50.3 43.4 65.0
87 35.1 22.6 33.8
59 13.2 9.1 13.7





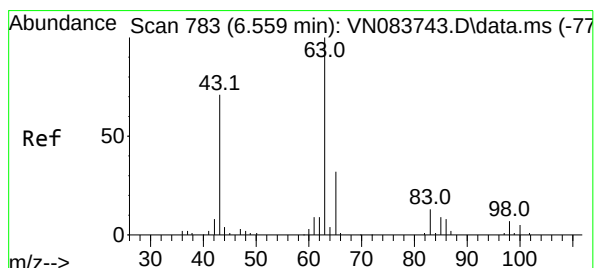
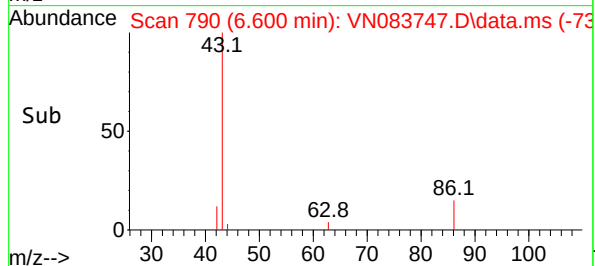
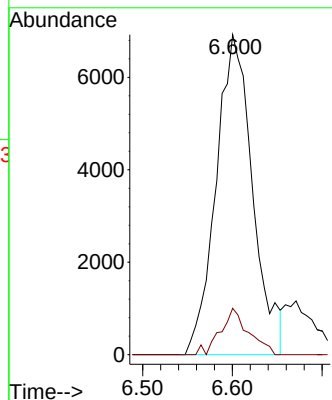
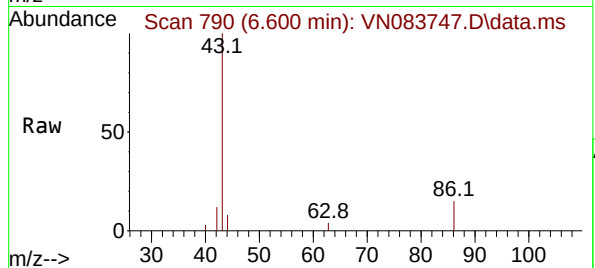
#23
Vinyl Acetate
Concen: 4.511 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 1958
Ion Ratio Lower Upper
43 100
86 14.5 8.7 13.1

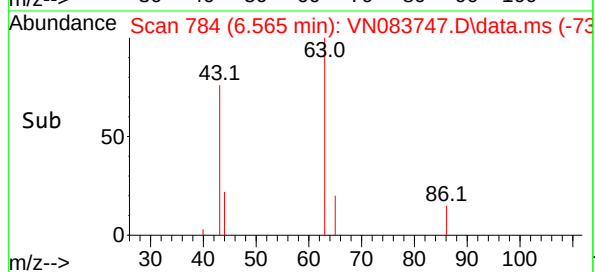
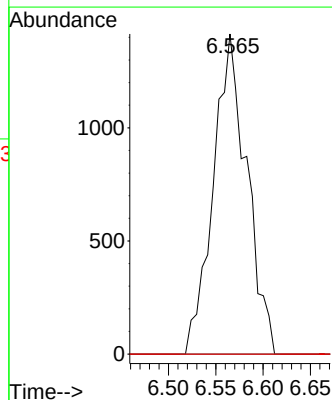
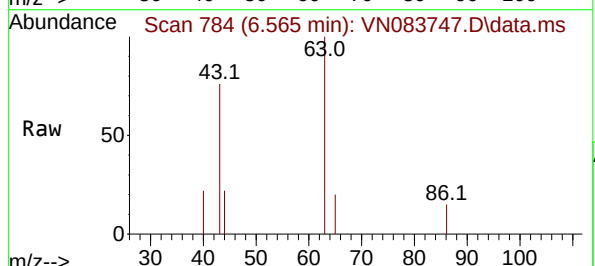
Manual Integrations
APPROVED

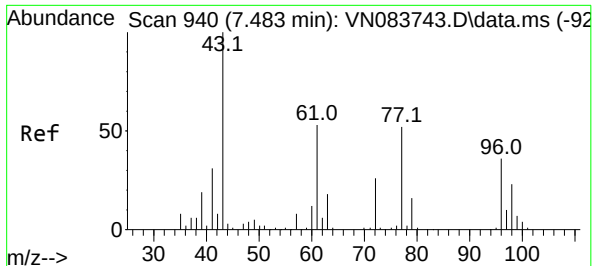
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#24
1,1-Dichloroethane
Concen: 1.022 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 63 Resp: 3493
Ion Ratio Lower Upper
63 100
98 0.0 3.5 10.4#
100 0.0 2.5 7.5#





#25

2-Butanone

Concen: 5.160 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 612

Ion Ratio Lower Upper

43 100

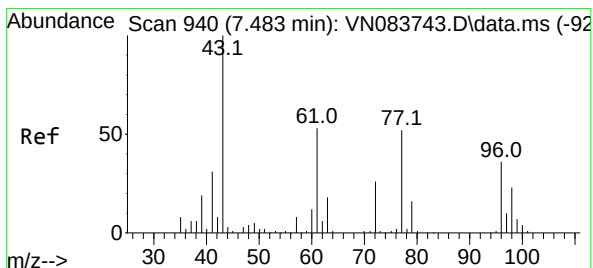
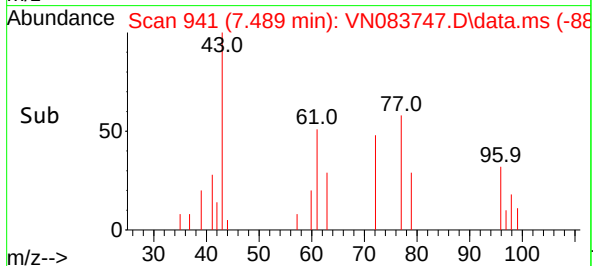
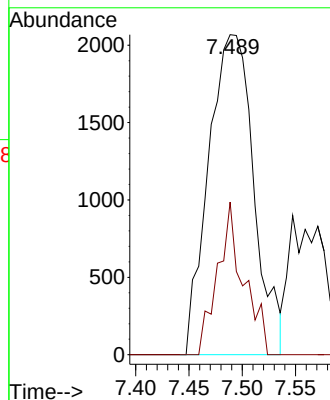
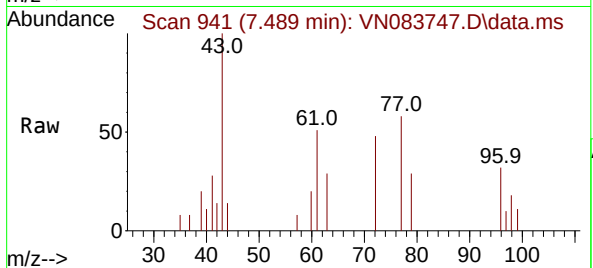
72 47.7 20.8 31.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#26

2,2-Dichloropropane

Concen: 0.948 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN083747.D

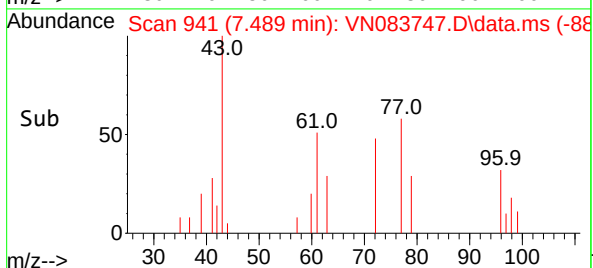
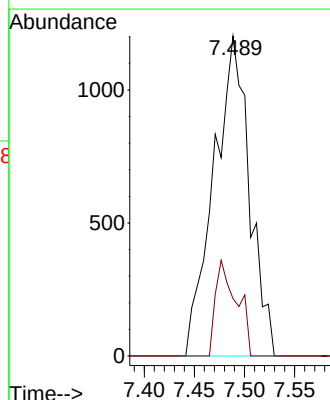
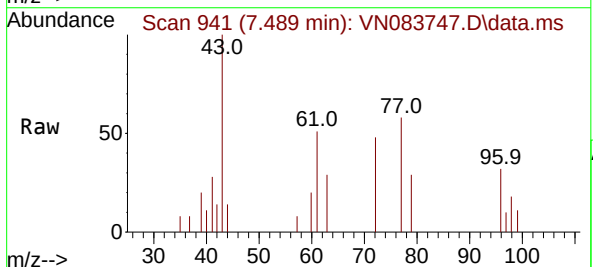
Acq: 10 Sep 2024 11:32

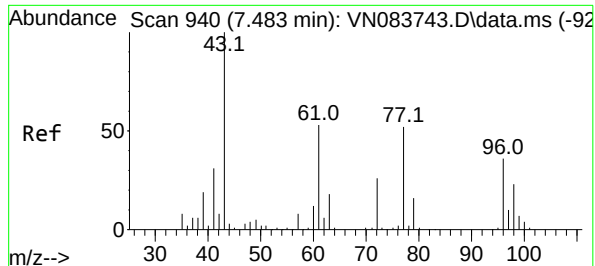
Tgt Ion: 77 Resp: 2982

Ion Ratio Lower Upper

77 100

97 17.7 10.2 30.4





#27

cis-1,2-Dichloroethene

Concen: 0.998 ug/l

RT: 7.477 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 96 Resp: 205

Ion Ratio Lower Upper

96 100

61 165.5 0.0 306.2

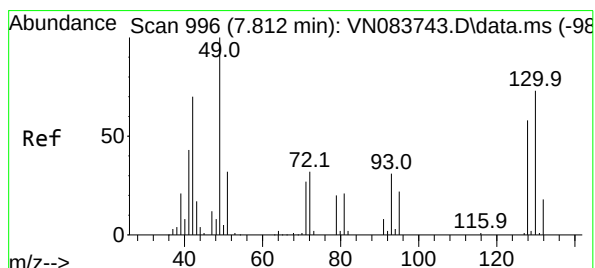
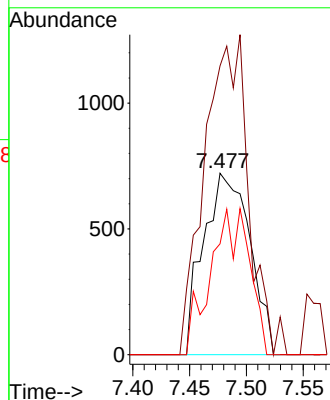
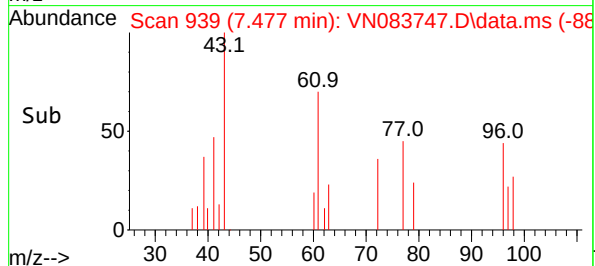
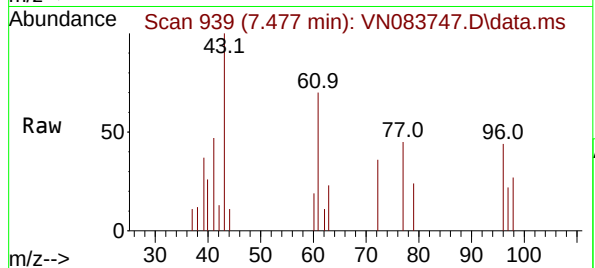
98 67.2 0.0 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#28

Bromochloromethane

Concen: 0.874 ug/l

RT: 7.806 min Scan# 995

Delta R.T. -0.006 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

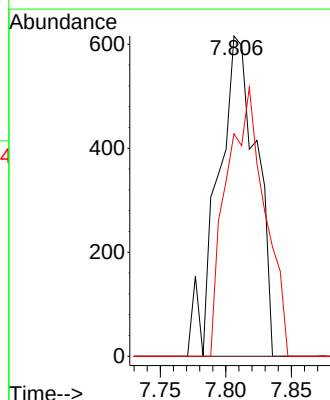
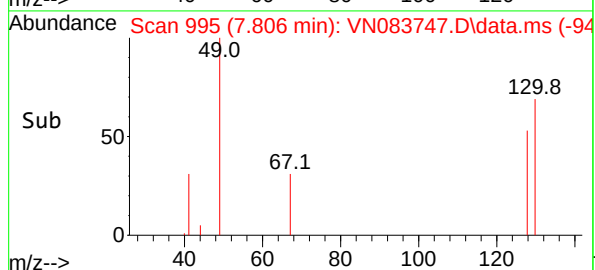
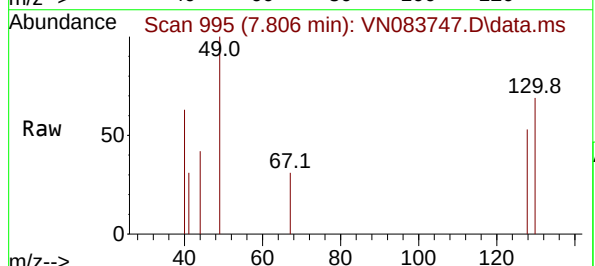
Tgt Ion: 49 Resp: 1257

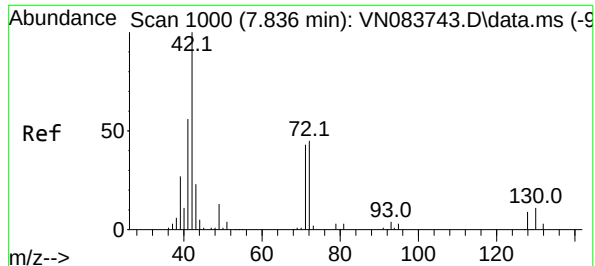
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.4

130 83.5 60.2 90.2





#29

Tetrahydrofuran

Concen: 4.893 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. 0.018 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

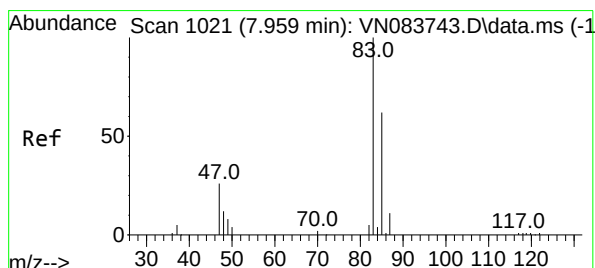
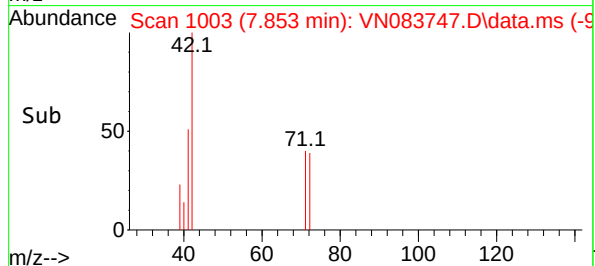
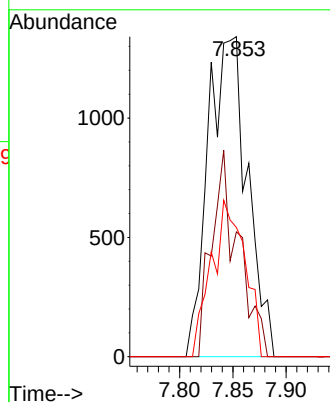
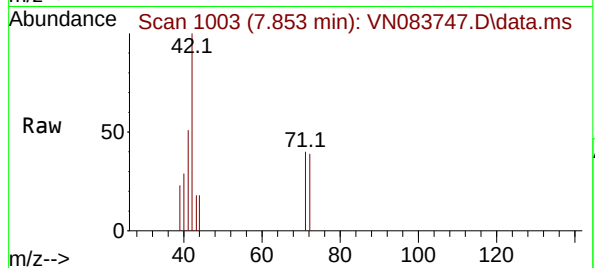
Tgt Ion: 42	Resp: 3430
Ion Ratio	Lower Upper
42	100
72	44.4 35.9 53.9
71	41.6 33.9 50.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#30

Chloroform

Concen: 0.973 ug/l

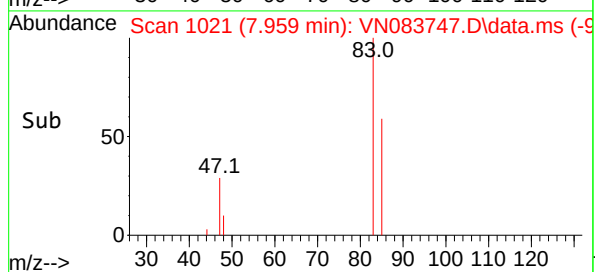
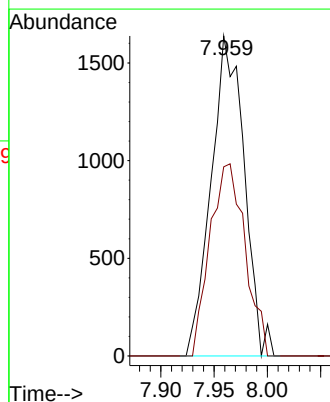
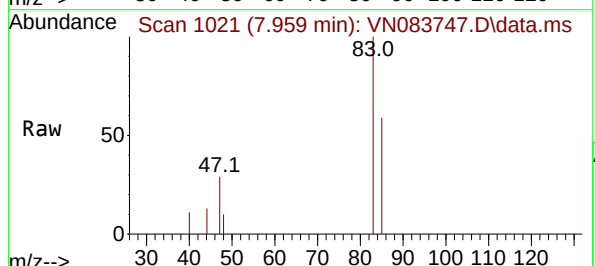
RT: 7.959 min Scan# 1021

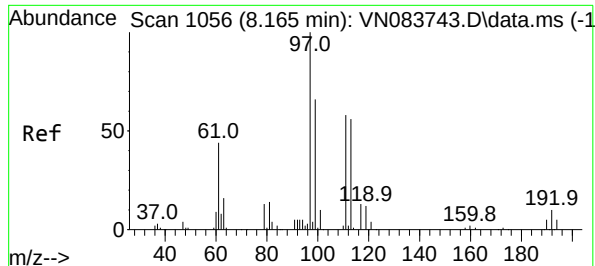
Delta R.T. 0.000 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Tgt Ion: 83	Resp: 3528
Ion Ratio	Lower Upper
83	100
85	59.1 52.8 79.2





#32

1,1,1-Trichloroethane

Concen: 0.969 ug/l

RT: 8.159 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 97 Resp: 323

Ion Ratio Lower Upper

97 100

99 0.0 52.3 78.5

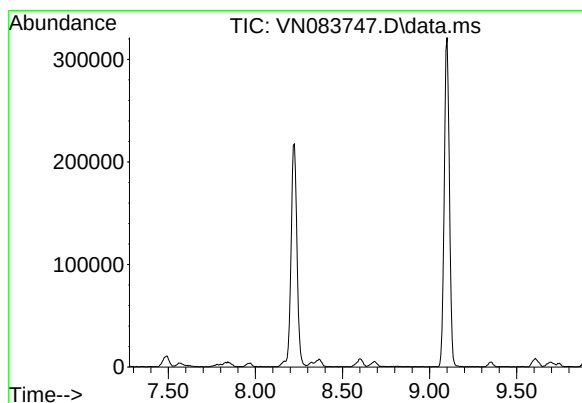
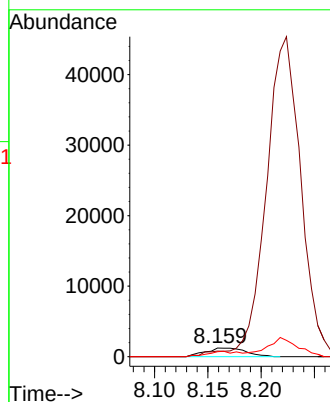
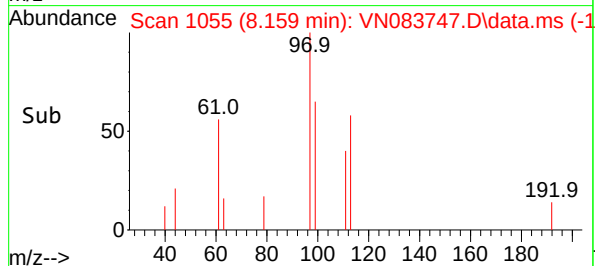
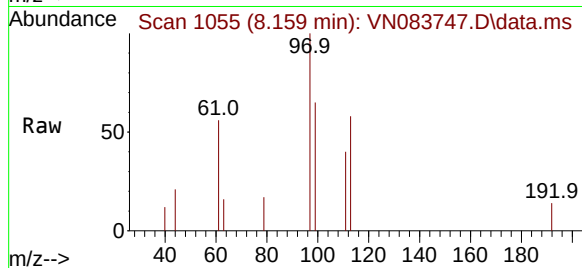
61 47.0 38.2 57.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 8.58 min

Lab File: VN083747.D

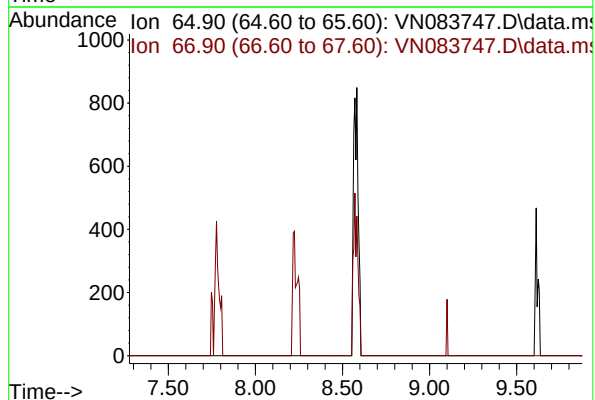
Acq: 10 Sep 2024 11:32

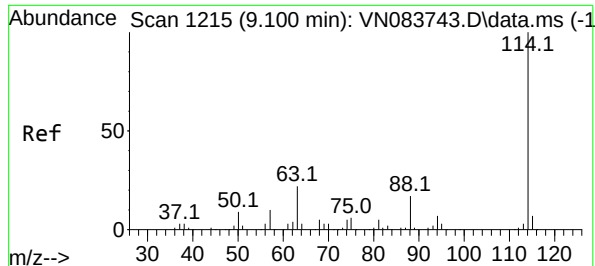
Tgt Ion: 65

Sig Exp Ratio

65 100

67 50.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion:114 Resp: 268939

Ion Ratio Lower Upper

114 100

63 23.2 0.0 43.4

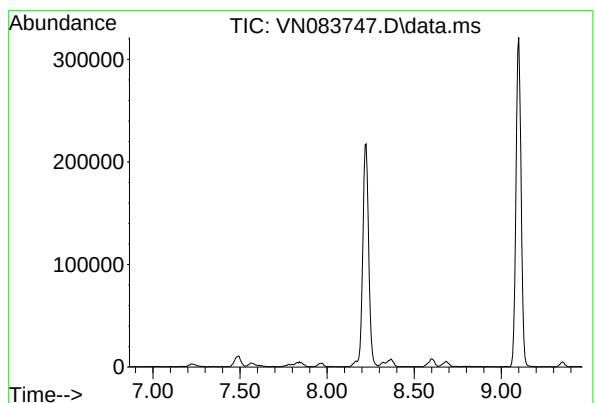
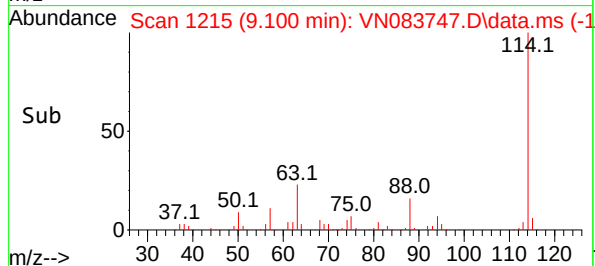
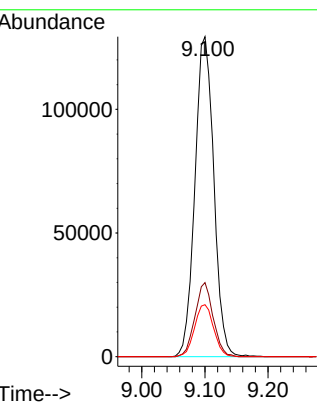
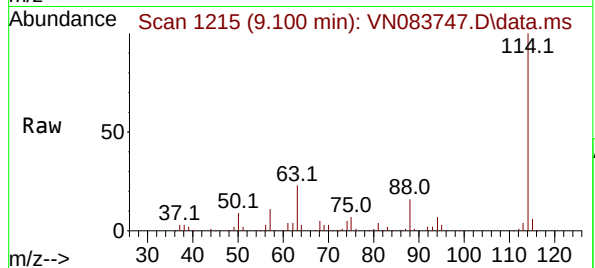
88 16.2 0.0 32.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 8.16 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

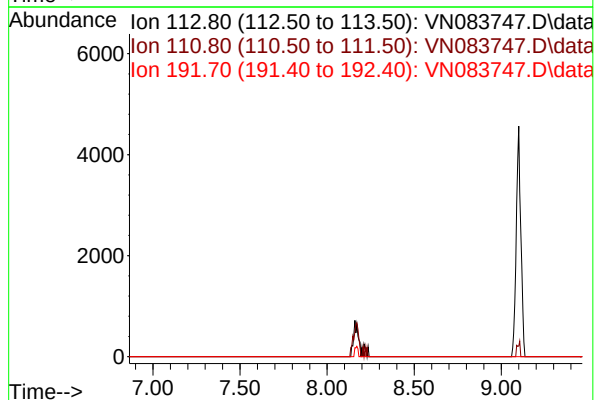
Tgt Ion: 113

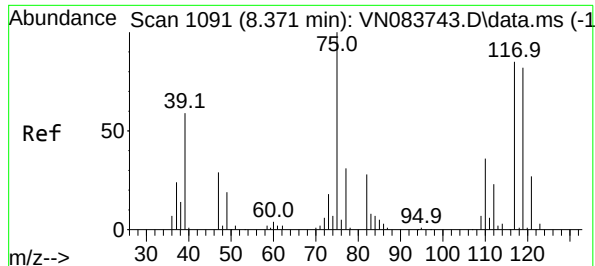
Sig Exp Ratio

113 100

111 103.3

192 17.9





#36

1,1-Dichloropropene

Concen: 1.044 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.000 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 75 Resp: 2700

Ion Ratio Lower Upper

75 100

110 20.7 16.7 50.1

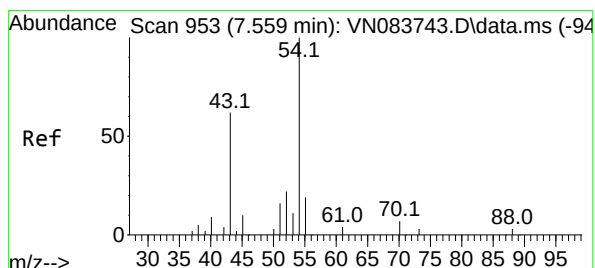
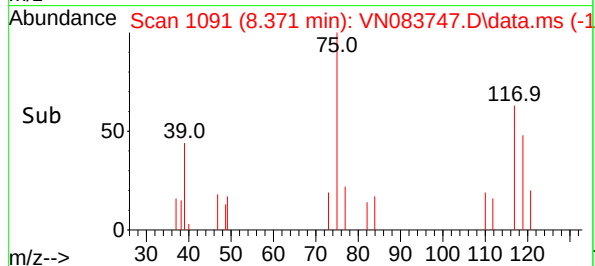
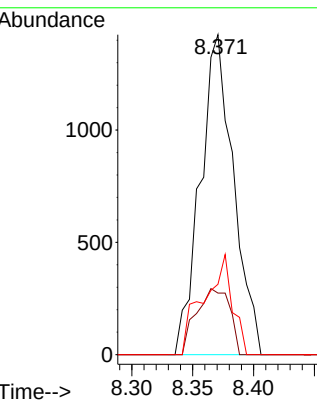
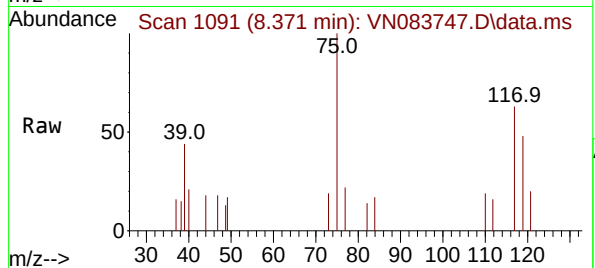
77 27.2 25.2 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#37

Ethyl Acetate

Concen: 0.880 ug/l

RT: 7.547 min Scan# 951

Delta R.T. -0.012 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

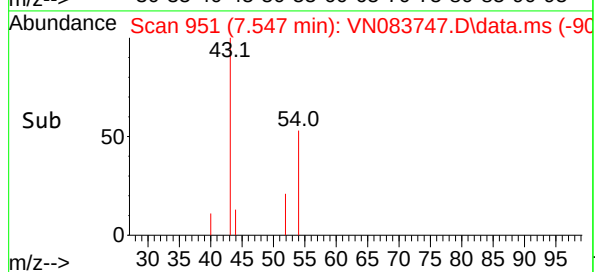
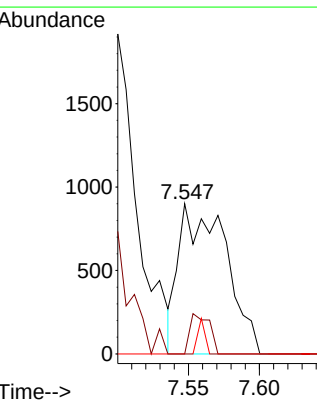
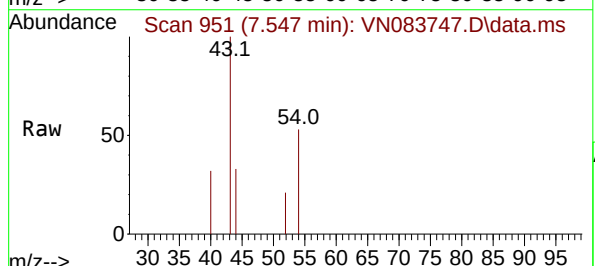
Tgt Ion: 43 Resp: 2070

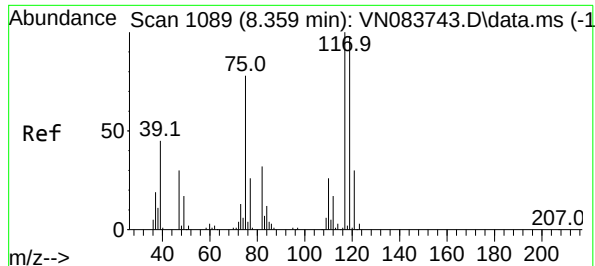
Ion Ratio Lower Upper

43 100

61 11.1 11.1 16.7#

70 3.6 8.8 13.2#





#38

Carbon Tetrachloride

Concen: 0.942 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.006 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 117 Resp: 2768

Ion Ratio Lower Upper

117 100

119 64.8 76.1 114.1

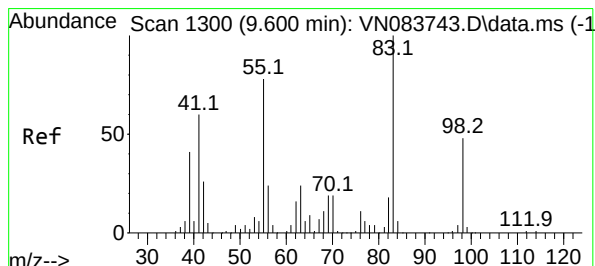
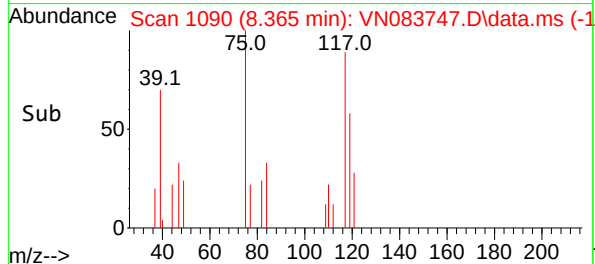
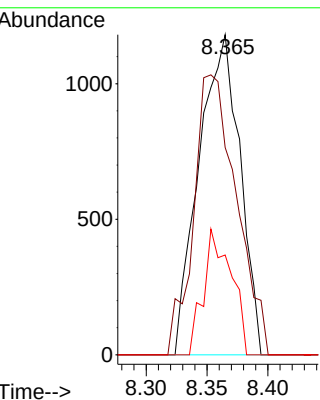
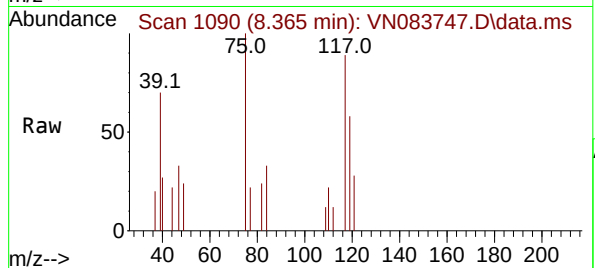
121 31.2 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#39

Methylcyclohexane

Concen: 0.925 ug/l

RT: 9.606 min Scan# 1301

Delta R.T. 0.006 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

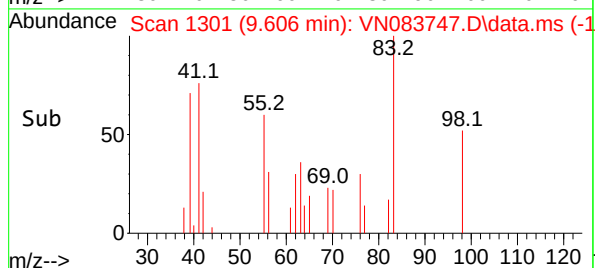
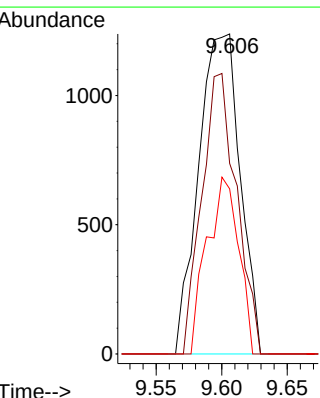
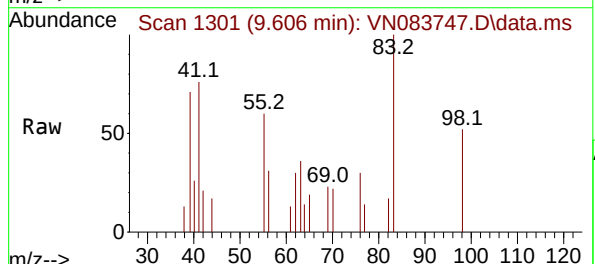
Tgt Ion: 83 Resp: 2729

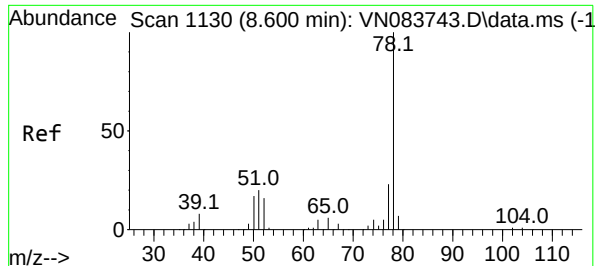
Ion Ratio Lower Upper

83 100

55 59.5 62.2 93.4

98 51.6 37.6 56.4





#40

Benzene

Concen: 1.000 ug/l

RT: 8.594 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 78 Resp: 779

Ion Ratio Lower Upper

78 100

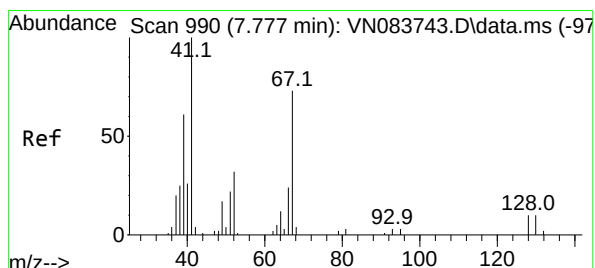
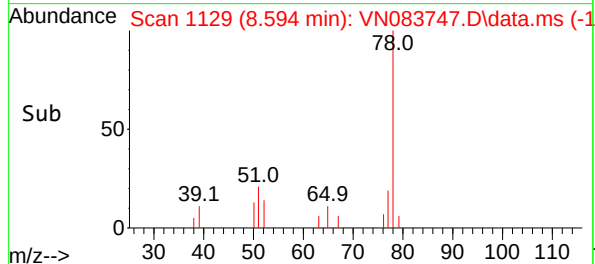
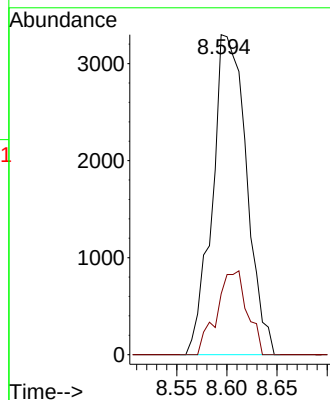
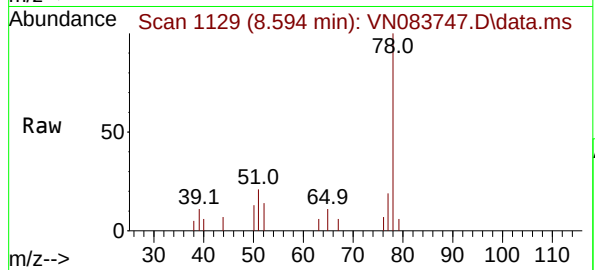
77 19.0 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#41

Methacrylonitrile

Concen: 1.075 ug/l m

RT: 7.765 min Scan# 988

Delta R.T. -0.012 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Tgt Ion: 41 Resp: 1496

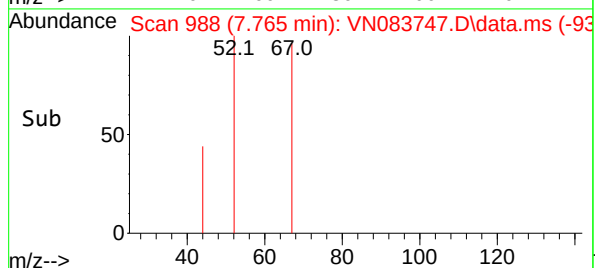
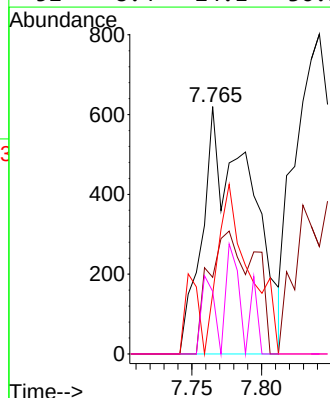
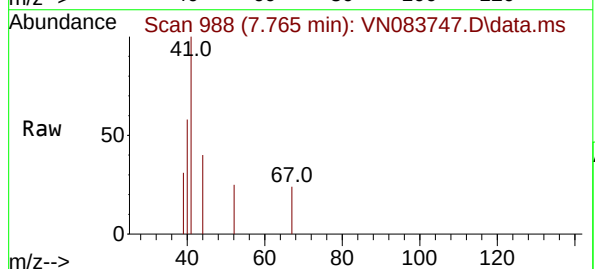
Ion Ratio Lower Upper

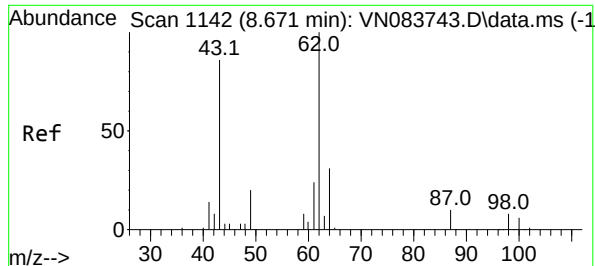
41 100

39 0.0 45.4 68.2#

67 8.7 55.9 83.9#

52 8.4 24.1 36.1#





#42

1,2-Dichloroethane

Concen: 0.916 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

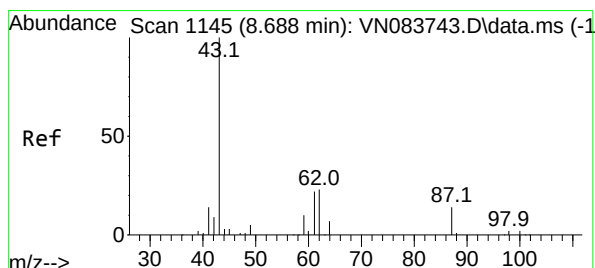
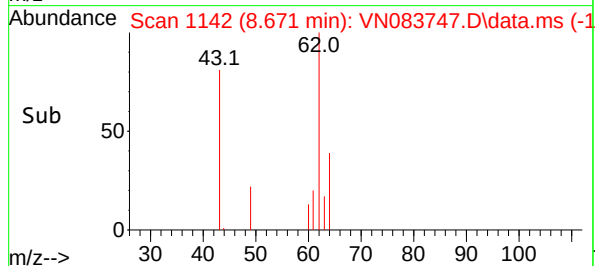
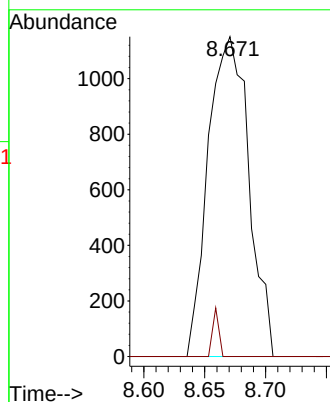
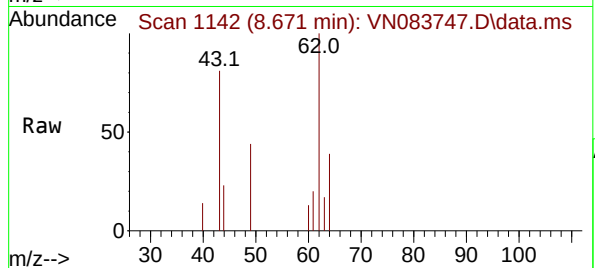
Tgt Ion:	62	Resp:	267
Ion Ratio	Lower	Upper	
62	100		
98	2.3	0.0	16.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#43

Isopropyl Acetate

Concen: 0.986 ug/l

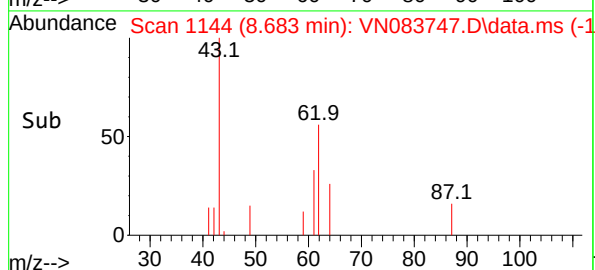
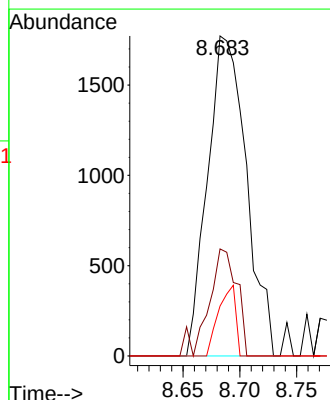
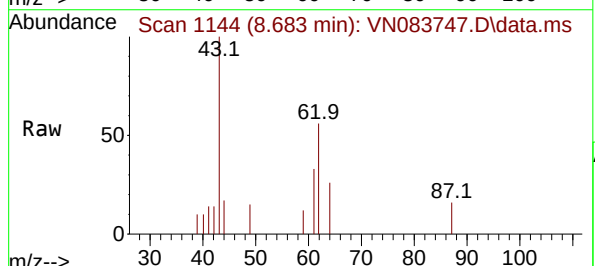
RT: 8.683 min Scan# 1144

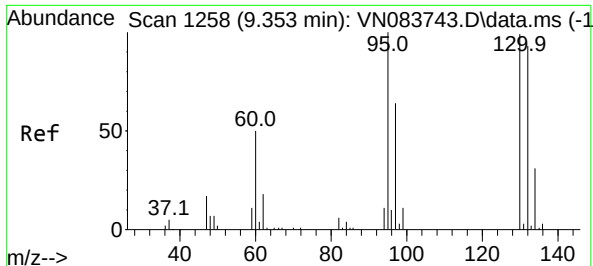
Delta R.T. -0.006 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Tgt Ion:	43	Resp:	4202
Ion Ratio	Lower	Upper	
43	100		
61	24.2	19.4	29.0
87	9.8	9.8	14.6





#44

Trichloroethene

Concen: 1.054 ug/l

RT: 9.347 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN083747.D

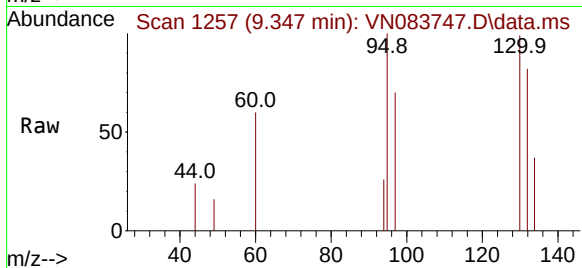
Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001



Tgt Ion:130 Resp: 1904

Ion Ratio Lower Upper

130 100

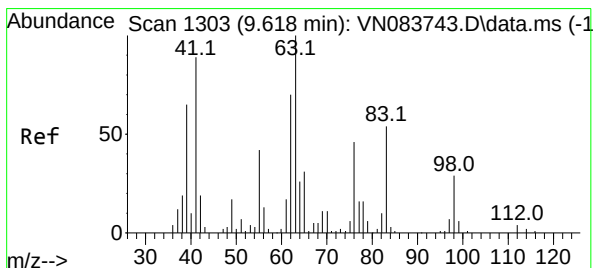
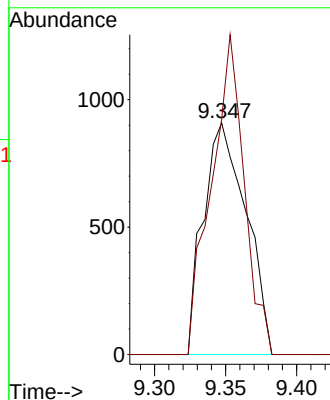
95 101.4 0.0 200.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#45

1,2-Dichloropropane

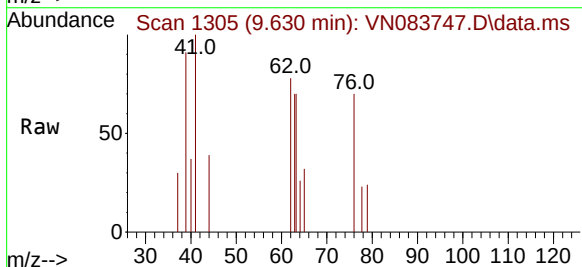
Concen: 0.968 ug/l

RT: 9.630 min Scan# 1305

Delta R.T. 0.012 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

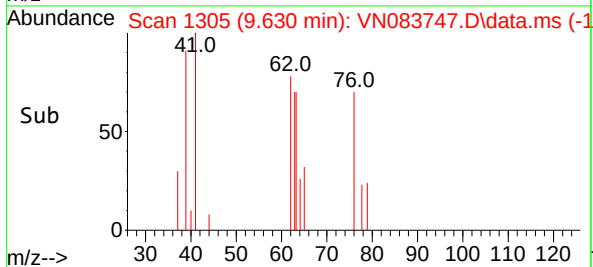
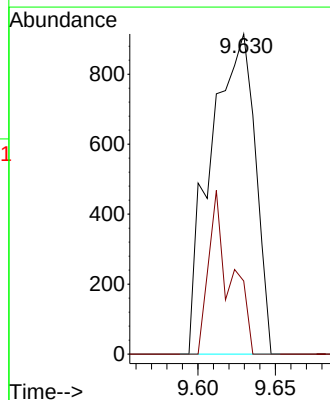


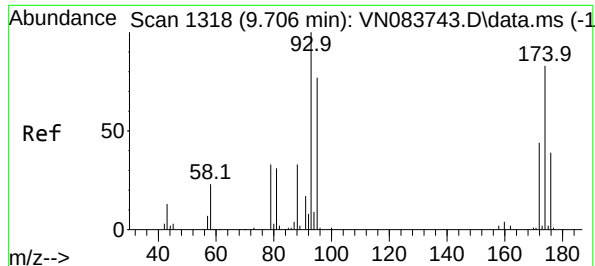
Tgt Ion: 63 Resp: 1824

Ion Ratio Lower Upper

63 100

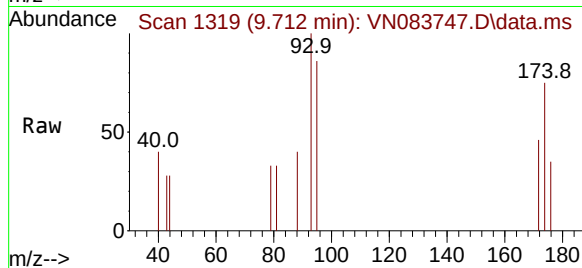
65 22.8 25.9 38.9#





#46
Dibromomethane
Concen: 0.866 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

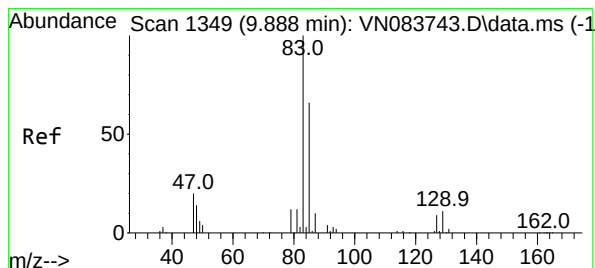
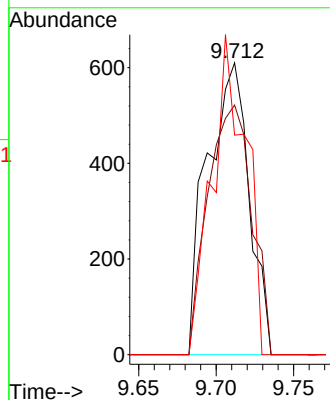
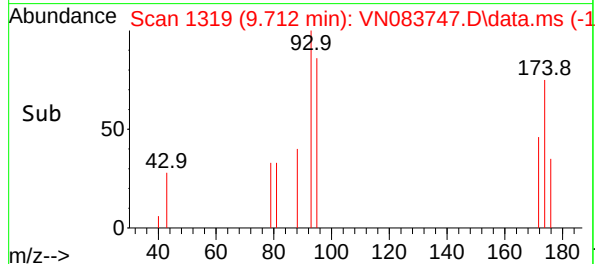
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 93 Resp: 1144
Ion Ratio Lower Upper
93 100
95 89.8 65.3 97.9
174 89.0 71.0 106.4

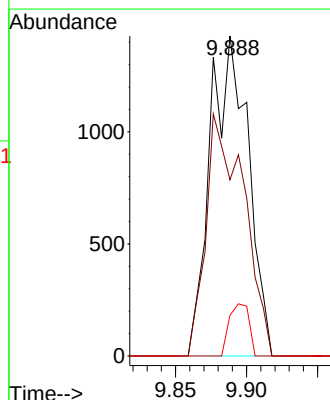
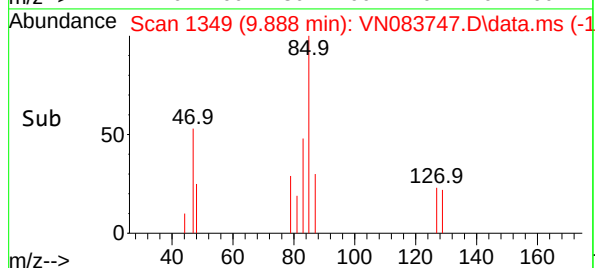
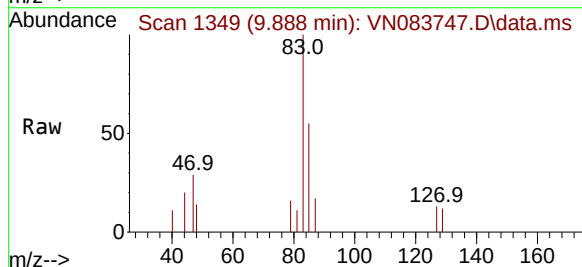
Manual Integrations
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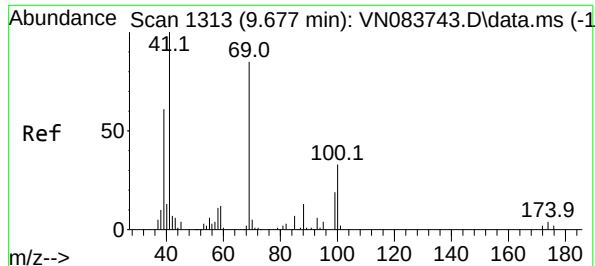
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#47
Bromodichloromethane
Concen: 0.929 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 83 Resp: 2654
Ion Ratio Lower Upper
83 100
85 55.0 51.8 77.8
127 12.7 6.6 9.8#





#48

Methyl methacrylate

Concen: 0.968 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.012 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 41 Resp: 195

Ion Ratio Lower Upper

41 100

69 81.4 64.3 96.5

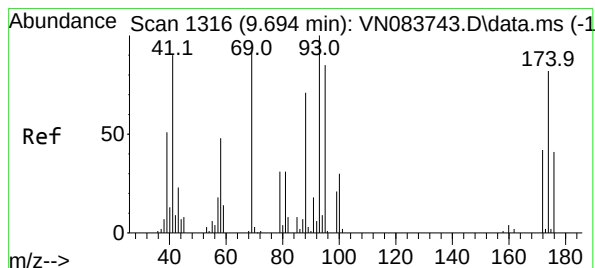
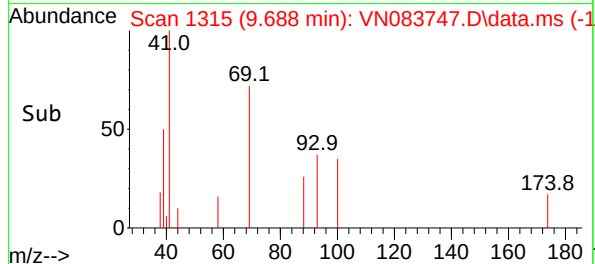
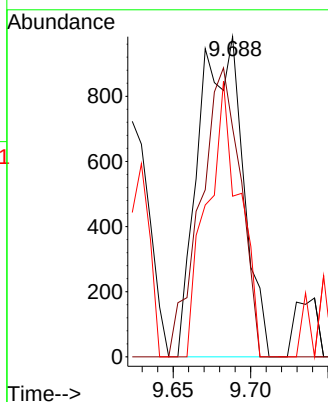
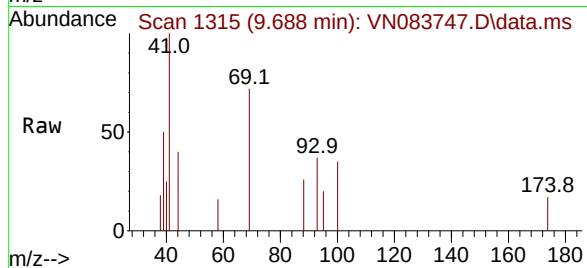
39 63.4 48.9 73.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#49

1,4-Dioxane

Concen: 22.664 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. 0.006 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

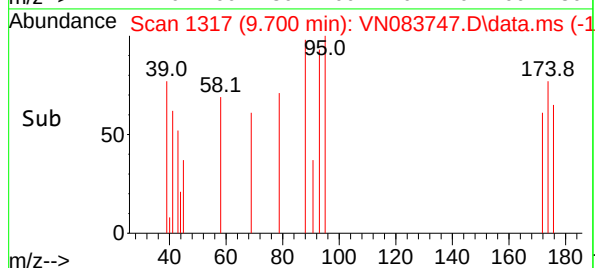
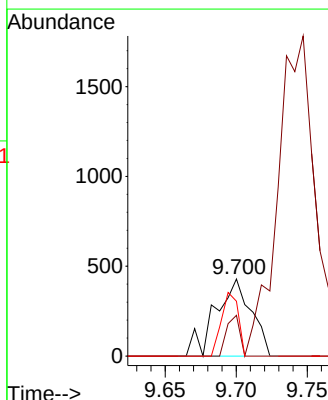
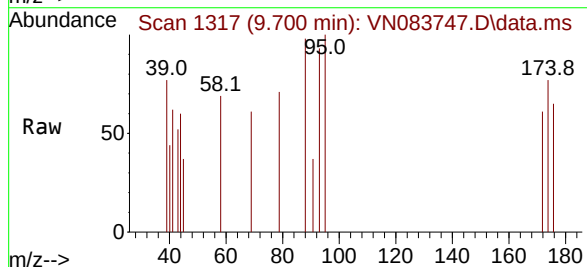
Tgt Ion: 88 Resp: 754

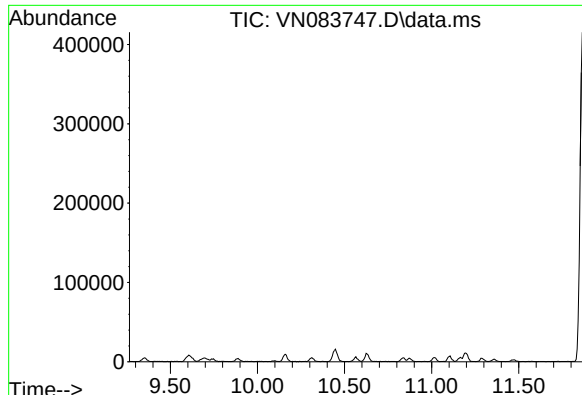
Ion Ratio Lower Upper

88 100

43 19.1 0.0 0.0#

58 38.5 57.1 85.7#





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 10.56 min

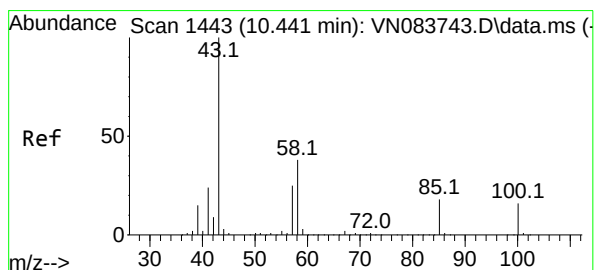
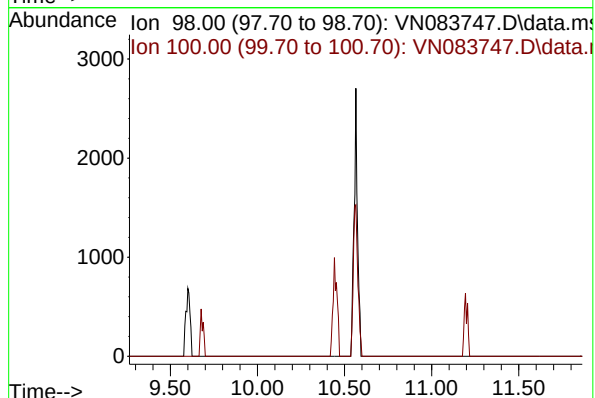
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 98
Sig Exp Ratio
98 100
100 65.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

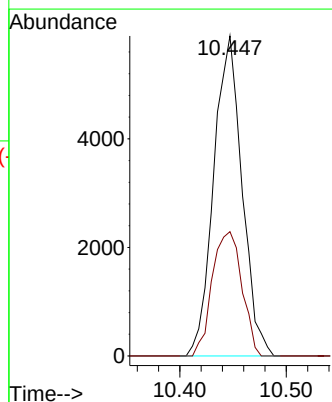
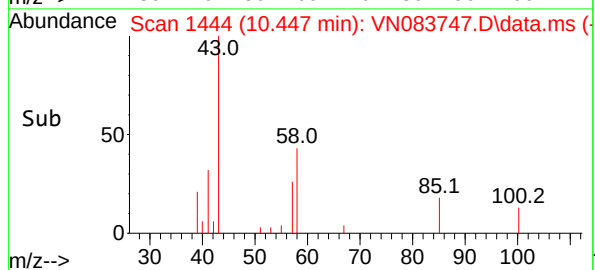
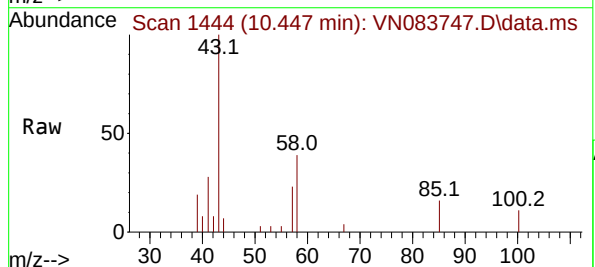
Manual Integrations
APPROVED

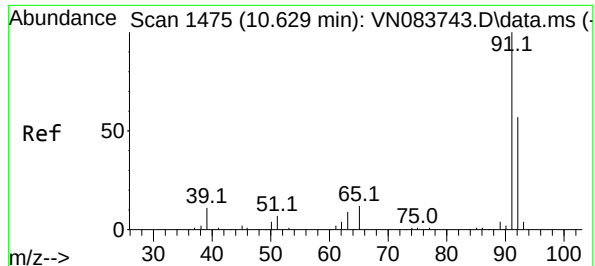
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#51
4-Methyl-2-Pentanone
Concen: 4.693 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 43 Resp: 10889
Ion Ratio Lower Upper
43 100
58 40.7 31.6 47.4





#52

Toluene

Concen: 0.925 ug/l

RT: 10.624 min Scan# 1475

Delta R.T. -0.006 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 92 Resp: 441

Ion Ratio Lower Upper

92 100

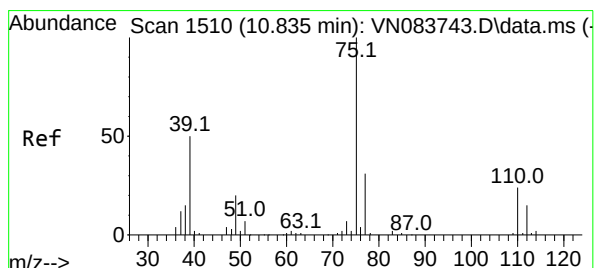
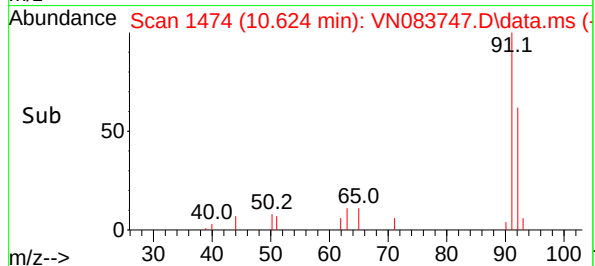
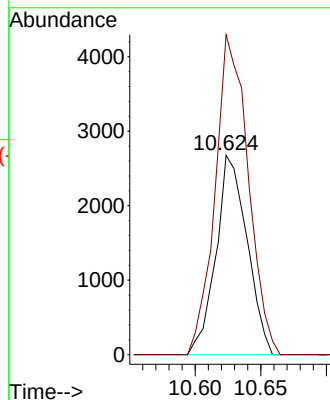
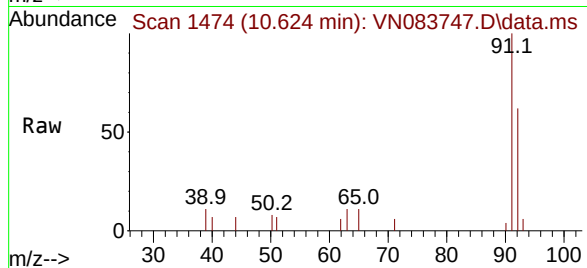
91 170.6 134.7 202.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#53

t-1,3-Dichloropropene

Concen: 0.965 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN083747.D

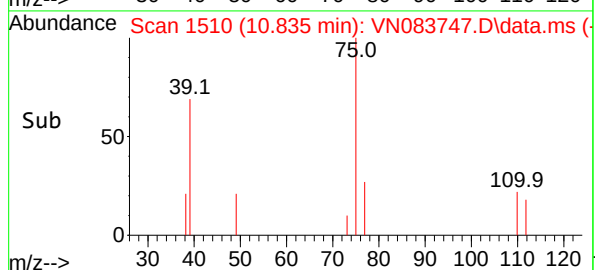
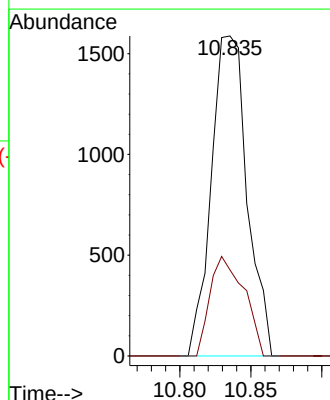
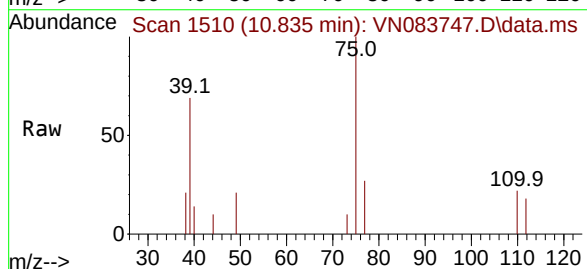
Acq: 10 Sep 2024 11:32

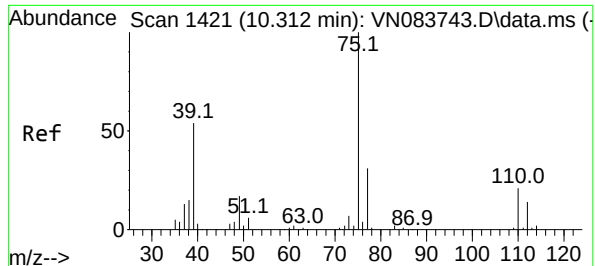
Tgt Ion: 75 Resp: 2794

Ion Ratio Lower Upper

75 100

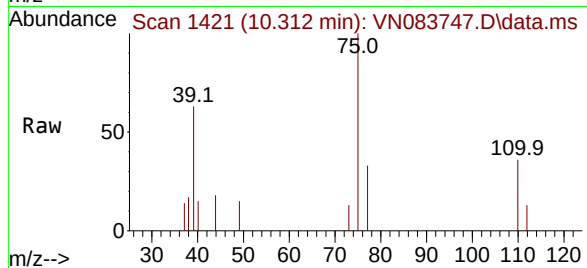
77 26.9 25.8 38.6





#54
cis-1,3-Dichloropropene
Concen: 0.901 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

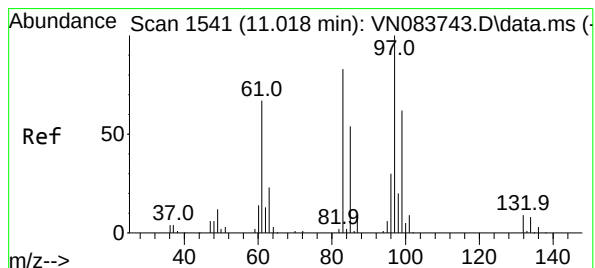
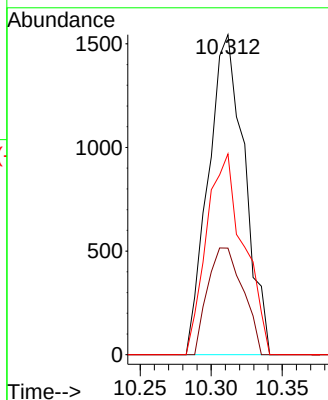
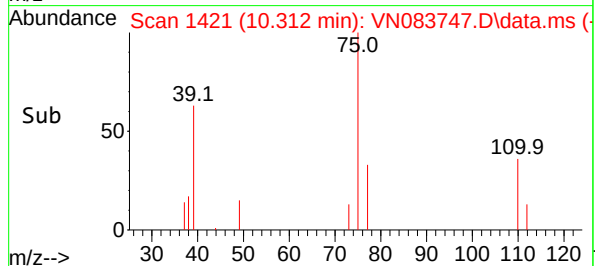
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001



Tgt Ion: 75 Resp: 274
Ion Ratio Lower Upper
75 100
77 33.3 25.0 37.6
39 62.8 42.6 64.0

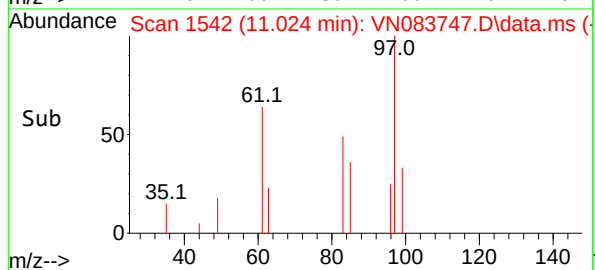
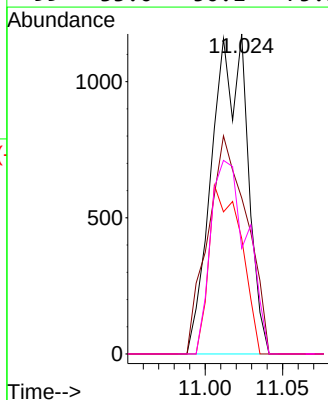
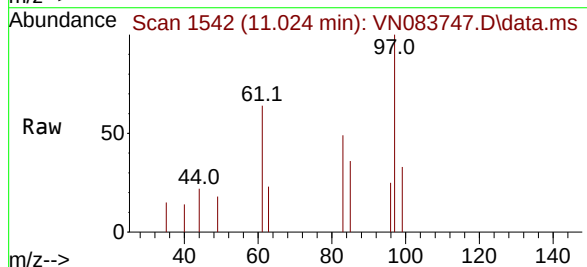
Manual Integrations
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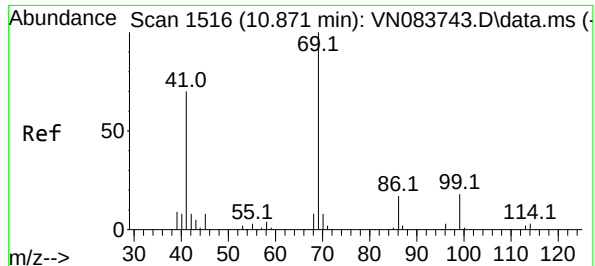
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#55
1,1,2-Trichloroethane
Concen: 1.043 ug/l
RT: 11.024 min Scan# 1542
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

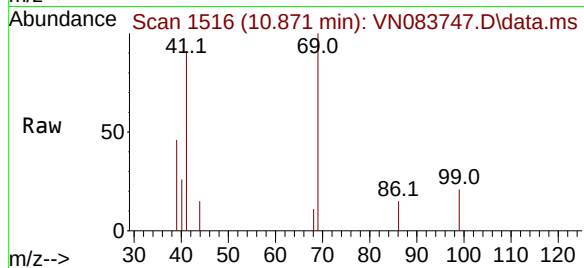
Tgt Ion: 97 Resp: 1858
Ion Ratio Lower Upper
97 100
83 48.8 67.5 101.3#
85 36.1 44.2 66.2#
99 33.0 50.1 75.1#





#56
Ethyl methacrylate
Concen: 0.830 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

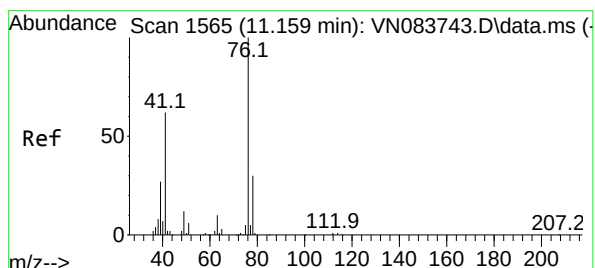
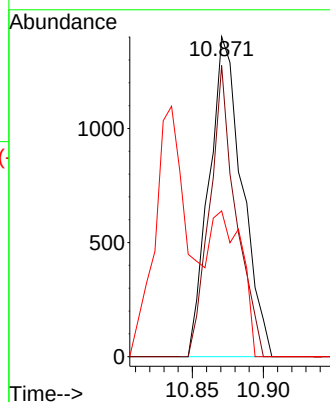
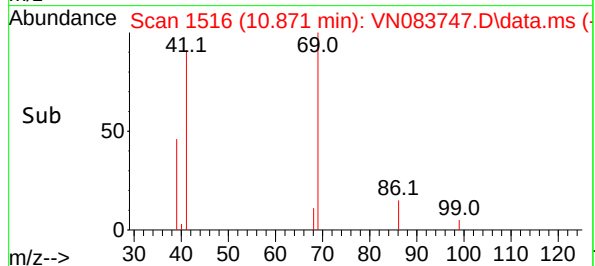
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 69 Resp: 2275
Ion Ratio Lower Upper
69 100
41 71.9 53.9 80.9
39 41.8 32.6 48.8

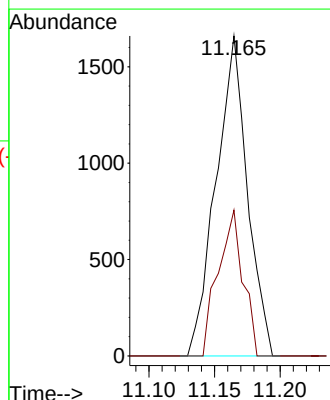
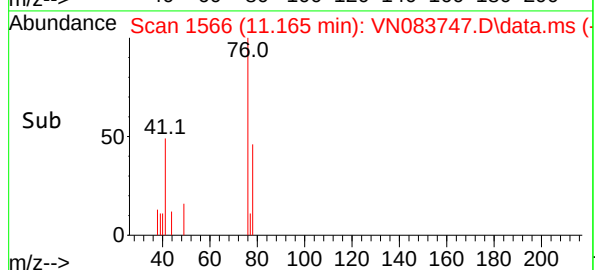
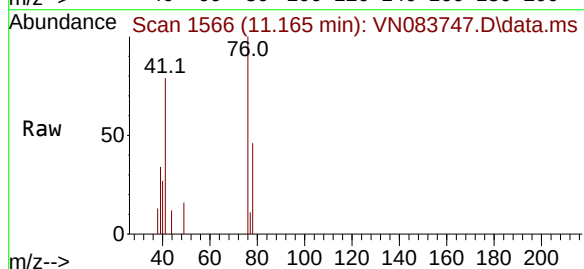
Manual Integrations
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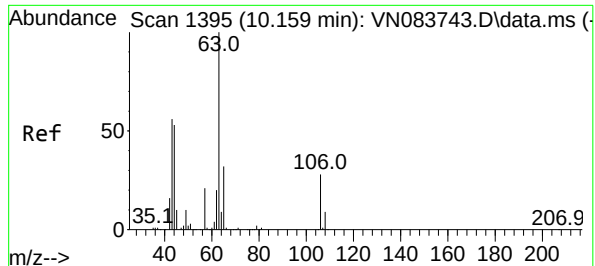
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#57
1,3-Dichloropropane
Concen: 0.900 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

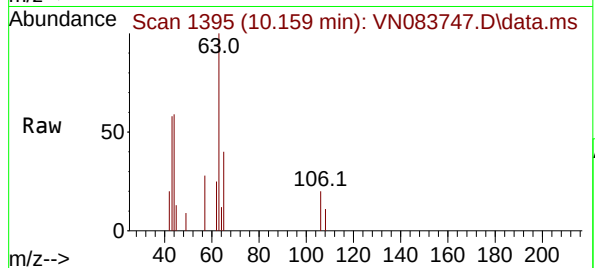
Tgt Ion: 76 Resp: 2755
Ion Ratio Lower Upper
76 100
78 36.2 25.8 38.6





#58
2-Chloroethyl Vinyl ether
Concen: 3.880 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

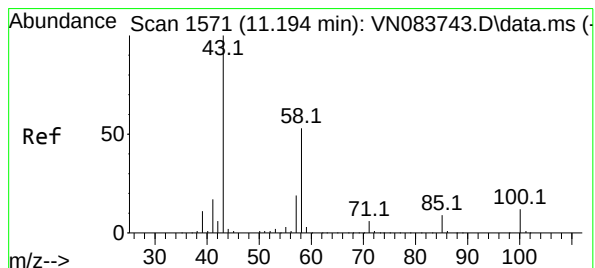
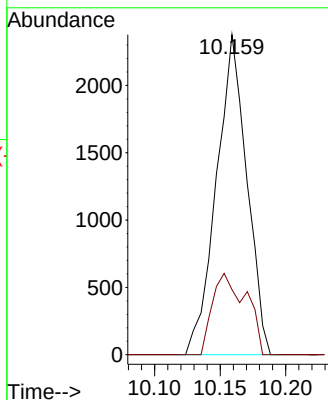
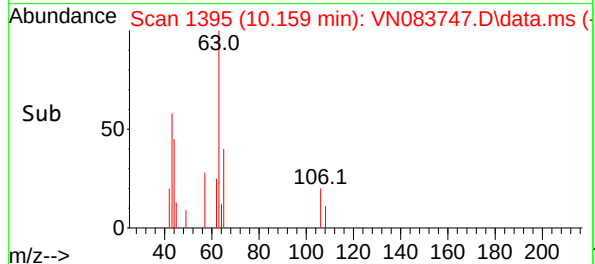
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 63 Resp: 383
Ion Ratio Lower Upper
63 100
106 28.2 23.3 34.9

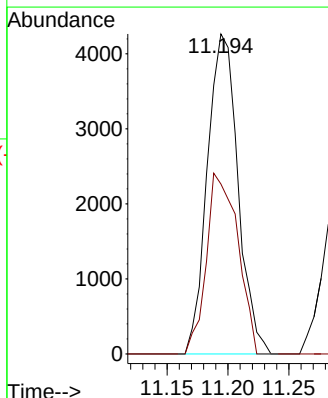
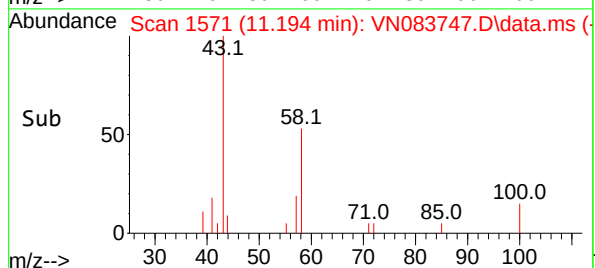
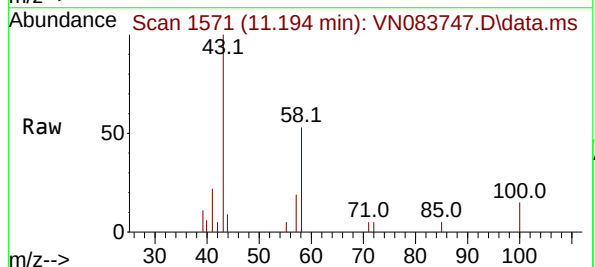
Manual Integrations
APPROVED

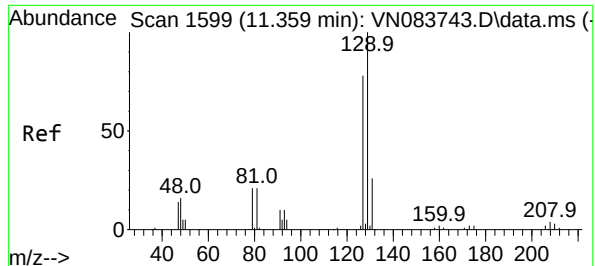
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#59
2-Hexanone
Concen: 4.348 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

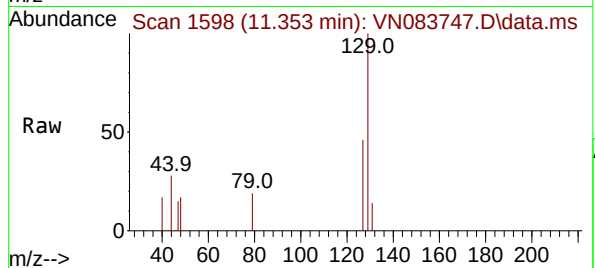
Tgt Ion: 43 Resp: 7463
Ion Ratio Lower Upper
43 100
58 57.8 27.2 81.5





#60
Dibromochloromethane
Concen: 0.910 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

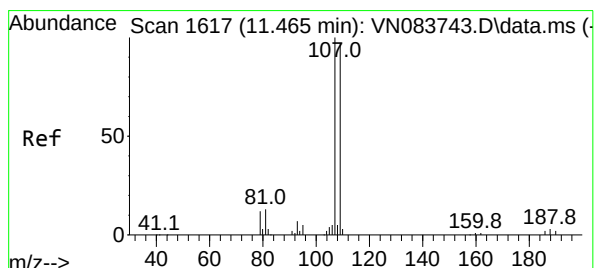
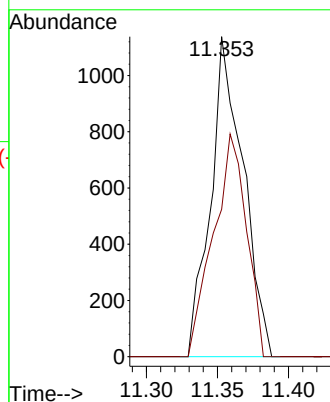
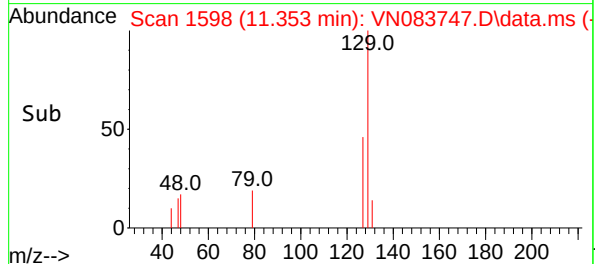
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



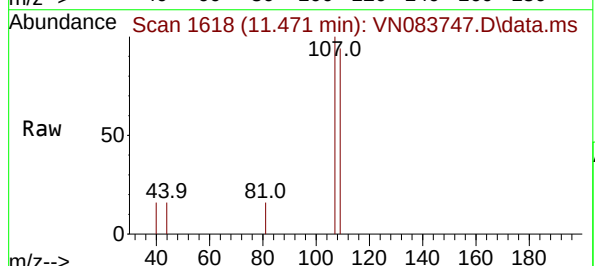
Tgt Ion:129 Resp: 181
Ion Ratio Lower Upper
129 100
127 70.7 39.0 116.9

Manual Integrations
APPROVED

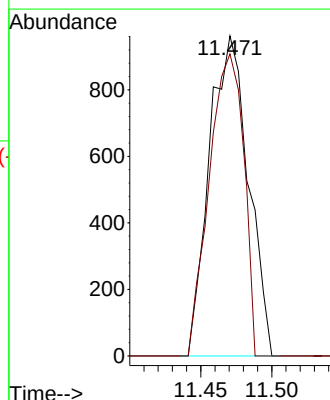
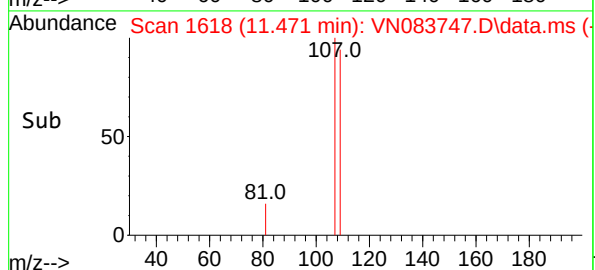
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

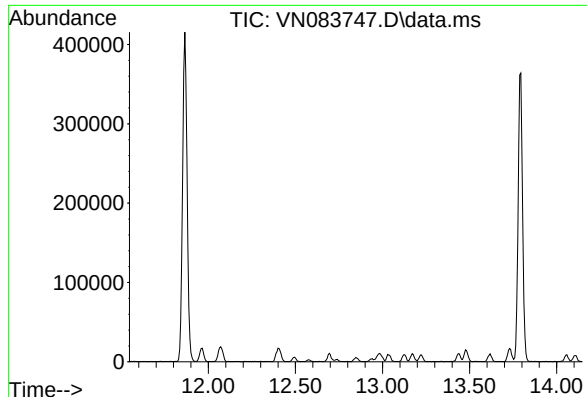


#61
1,2-Dibromoethane
Concen: 1.035 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32



Tgt Ion:107 Resp: 1838
Ion Ratio Lower Upper
107 100
109 83.2 75.6 113.4





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 12.85 min

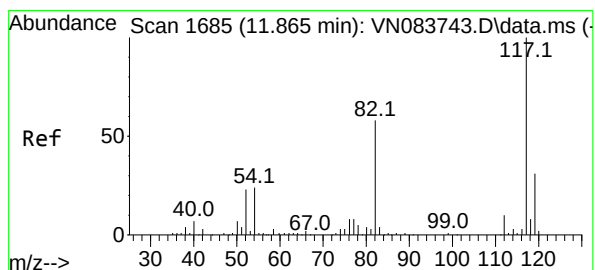
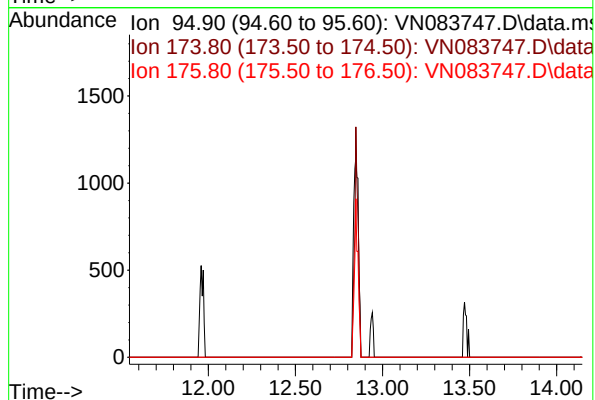
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 95
Sig Exp Ratio
95 100
174 69.9
176 65.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

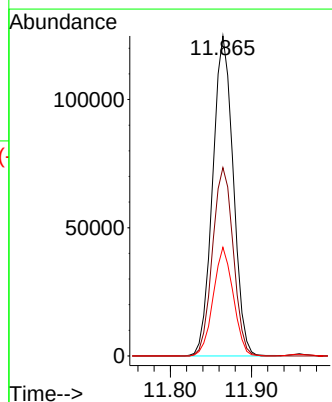
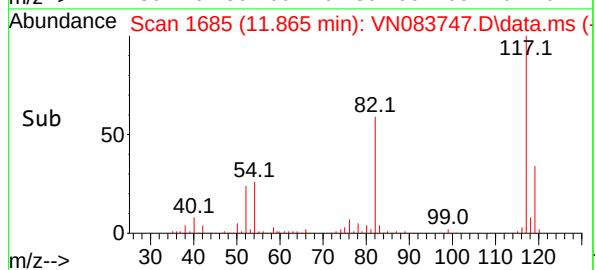
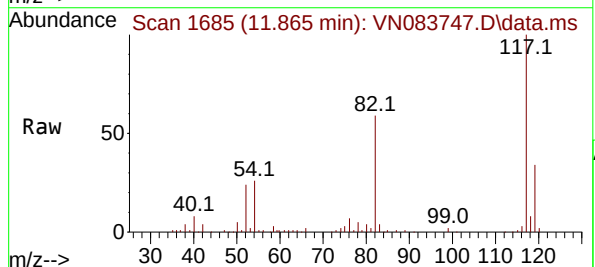
Manual Integrations
APPROVED

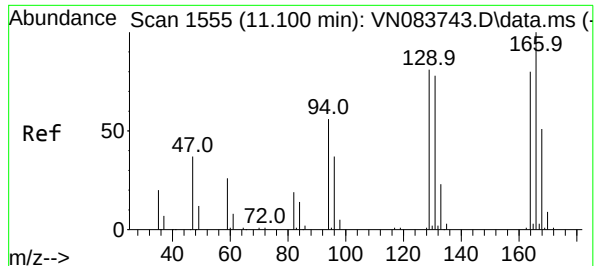
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

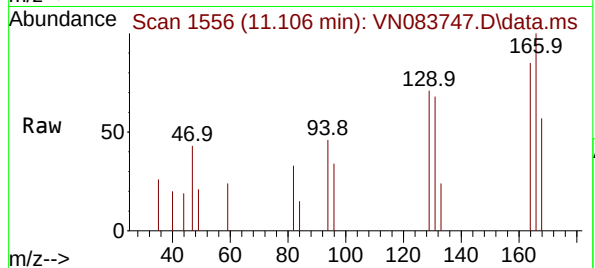
Tgt Ion:117 Resp: 219654
Ion Ratio Lower Upper
117 100
82 58.8 47.4 71.0
119 34.0 26.3 39.5





#64
Tetrachloroethene
Concen: 1.025 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

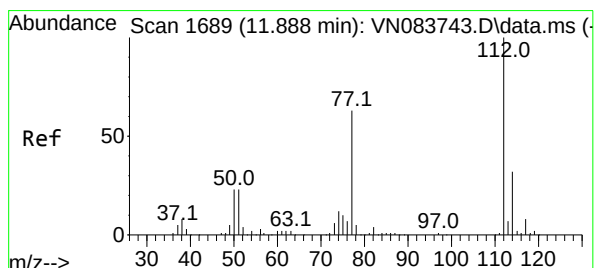
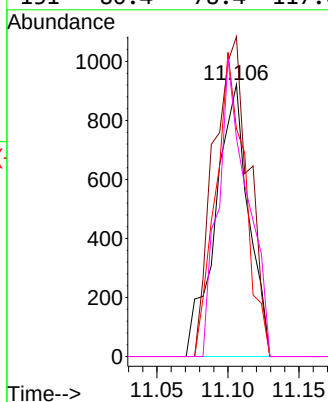
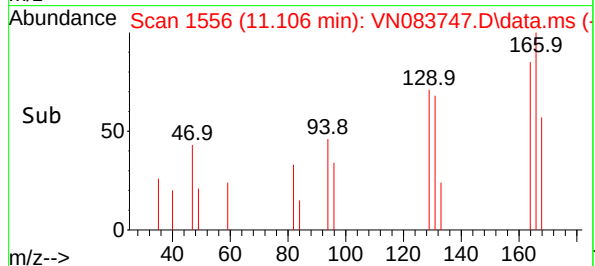
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001



Tgt Ion:164 Resp: 149
Ion Ratio Lower Upper
164 100
166 117.6 103.7 155.5
129 83.7 79.9 119.9
131 80.4 78.4 117.6

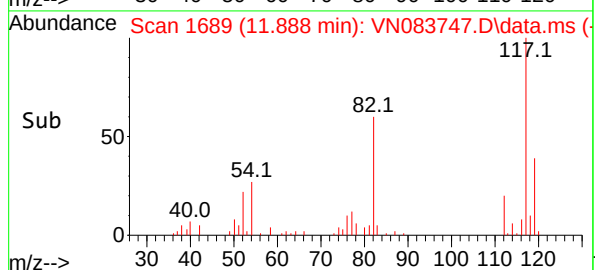
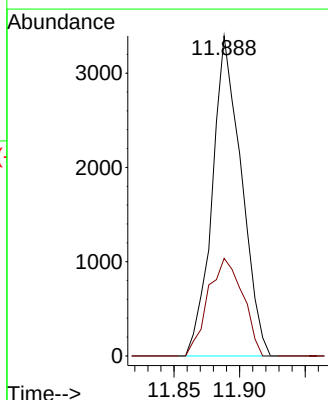
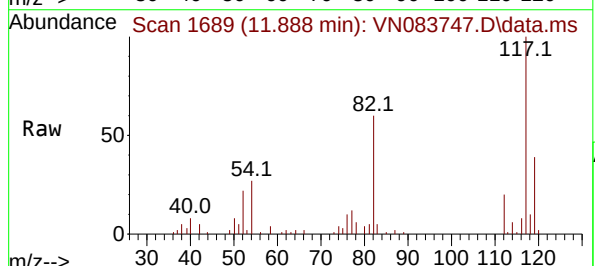
Manual Integrations
APPROVED

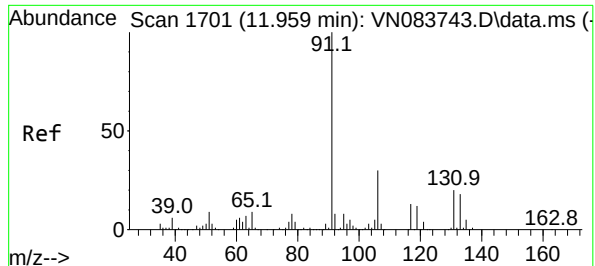
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#65
Chlorobenzene
Concen: 1.076 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

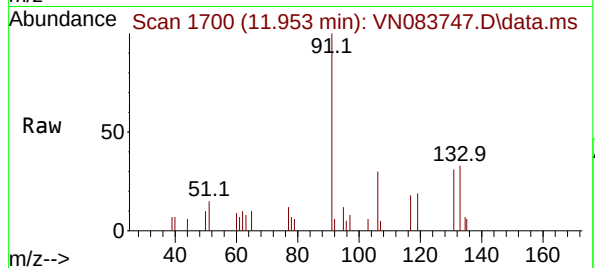
Tgt Ion:112 Resp: 5253
Ion Ratio Lower Upper
112 100
114 30.5 25.7 38.5





#66
1,1,1,2-Tetrachloroethane
Concen: 0.988 ug/l
RT: 11.953 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

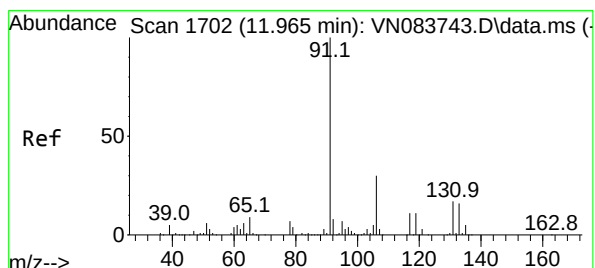
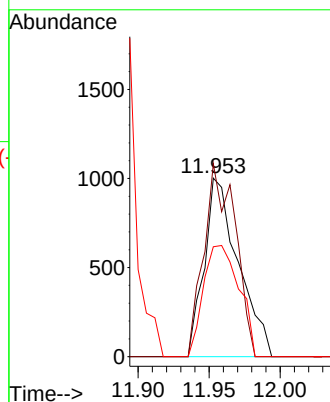
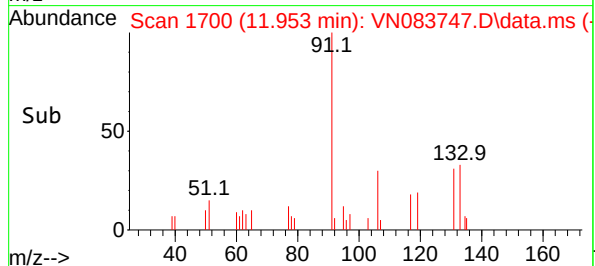
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001



Tgt Ion:131 Resp: 1672
Ion Ratio Lower Upper
131 100
133 99.6 47.5 142.6
119 0.0 31.6 94.8

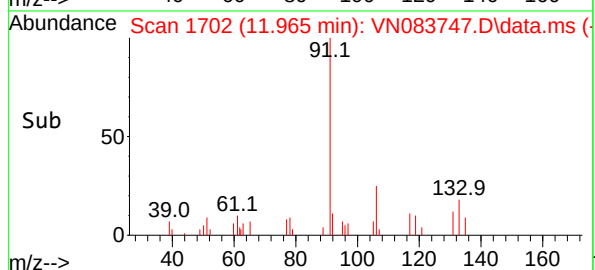
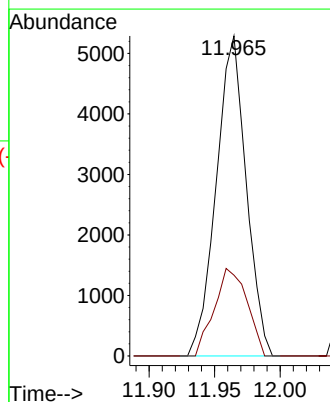
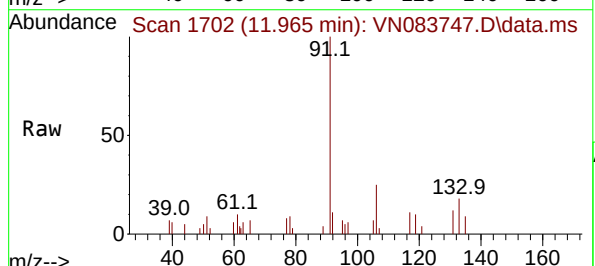
Manual Integrations
APPROVED

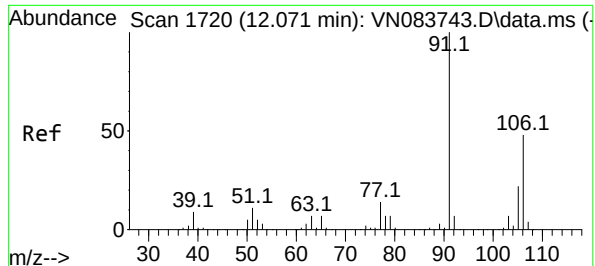
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#67
Ethyl Benzene
Concen: 0.969 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 91 Resp: 8403
Ion Ratio Lower Upper
91 100
106 25.3 24.3 36.5





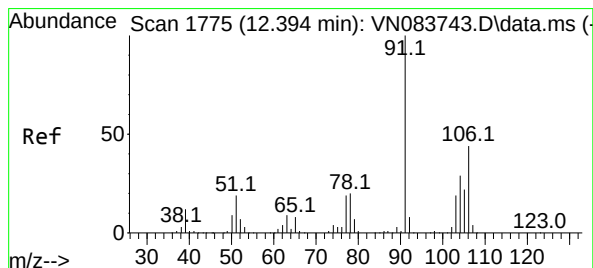
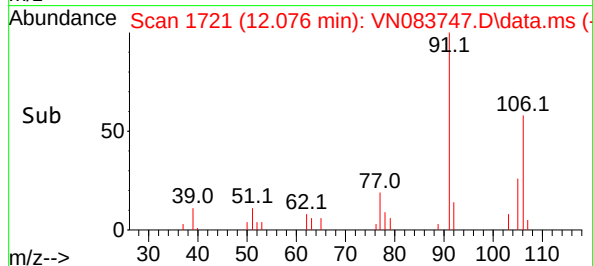
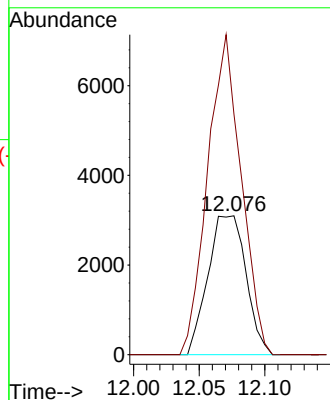
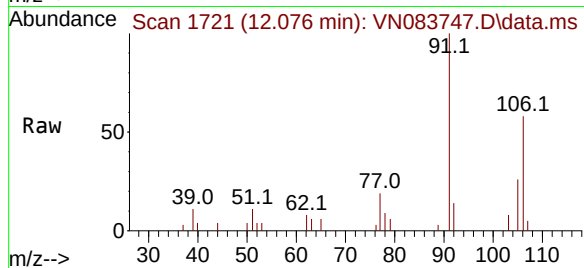
#68
m/p-Xylenes
Concen: 1.946 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tgt Ion:106 Resp: 626
Ion Ratio Lower Upper
106 100
91 203.3 169.2 253.8

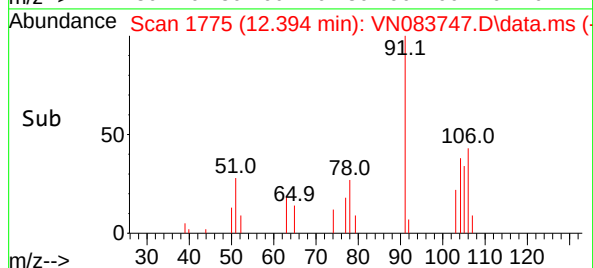
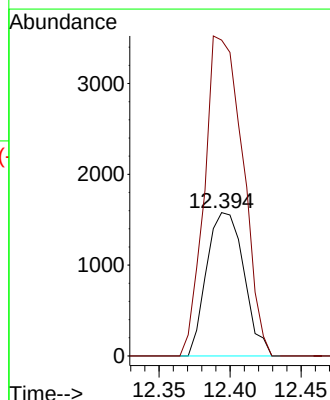
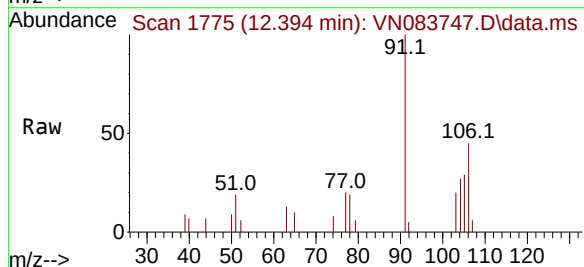
Manual Integrations
APPROVED

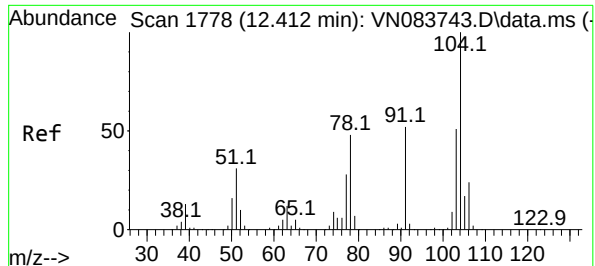
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#69
o-Xylene
Concen: 0.926 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

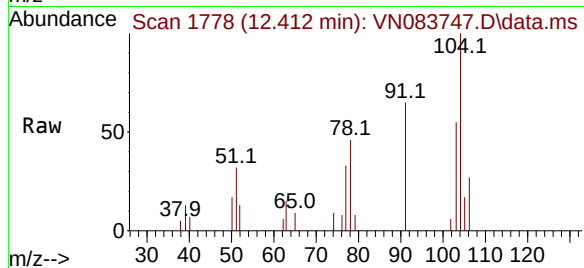
Tgt Ion:106 Resp: 2885
Ion Ratio Lower Upper
106 100
91 228.8 112.9 338.6





#70
Styrene
Concen: 0.945 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

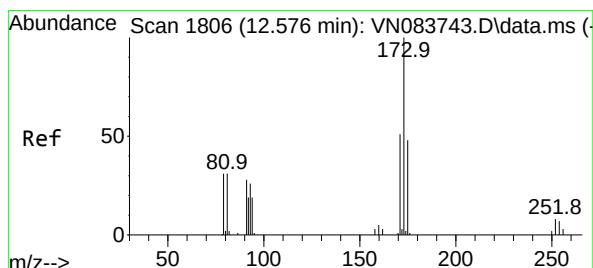
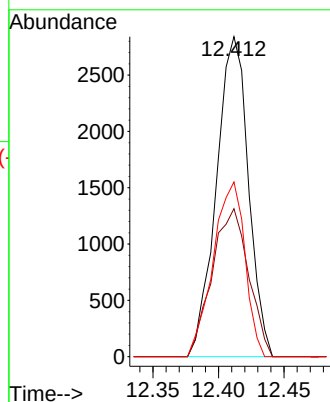
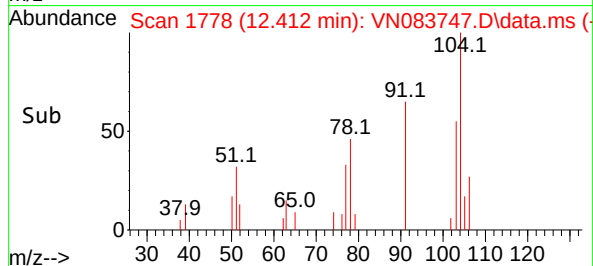
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion:104 Resp: 4834
Ion Ratio Lower Upper
104 100
78 52.6 43.3 64.9
103 53.9 43.4 65.2

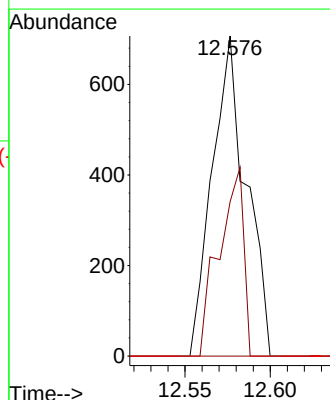
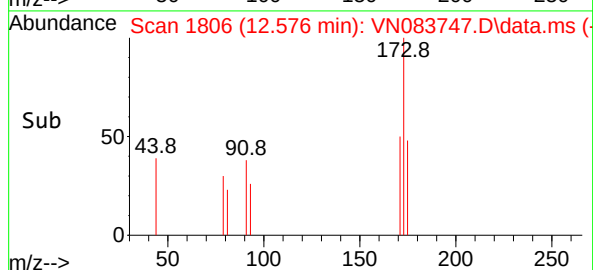
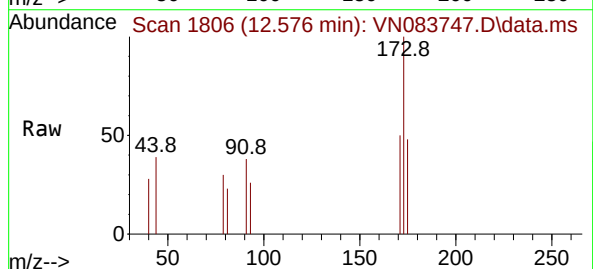
Manual Integrations
APPROVED

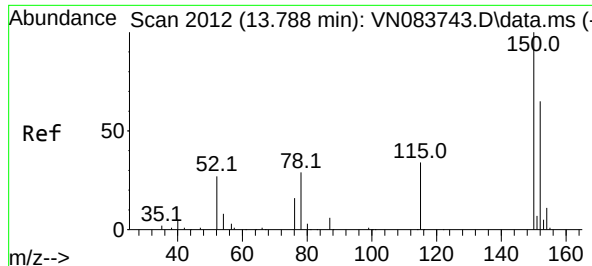
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#71
Bromoform
Concen: 0.860 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:173 Resp: 981
Ion Ratio Lower Upper
173 100
175 42.8 24.1 72.2
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2012

Delta R.T. 0.006 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:152 Resp: 91880

Ion Ratio Lower Upper

152 100

115 64.7 32.2 96.6

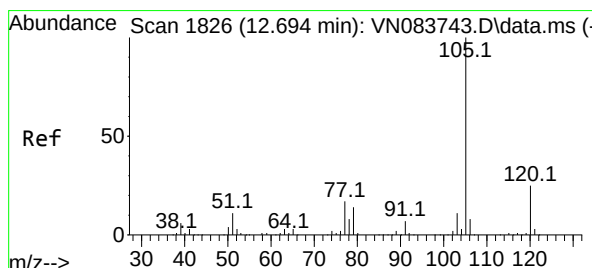
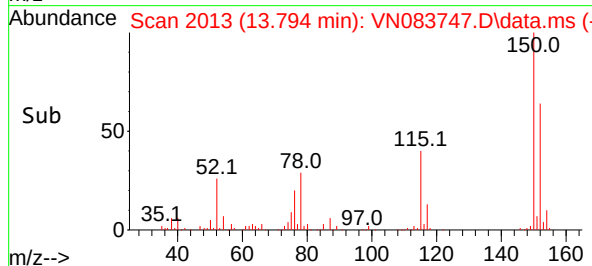
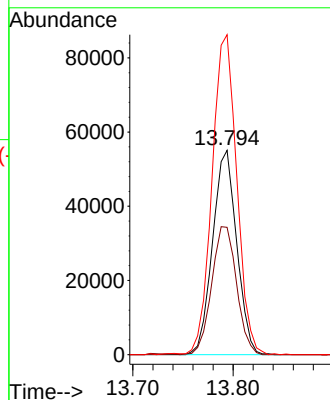
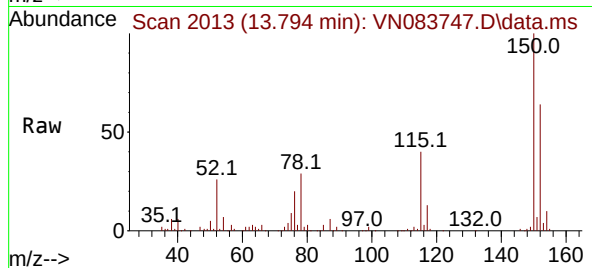
150 160.8 0.0 348.6

Manual Integrations

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Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#73

Isopropylbenzene

Concen: 0.972 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN083747.D

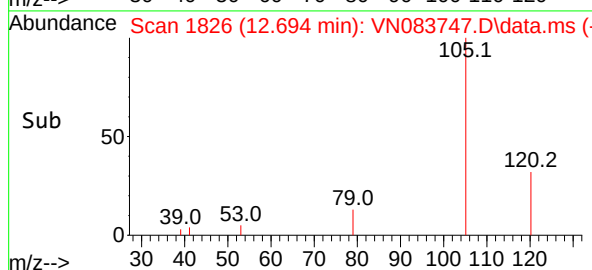
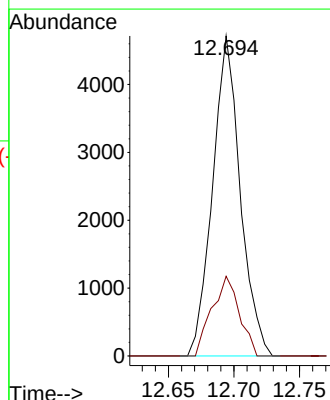
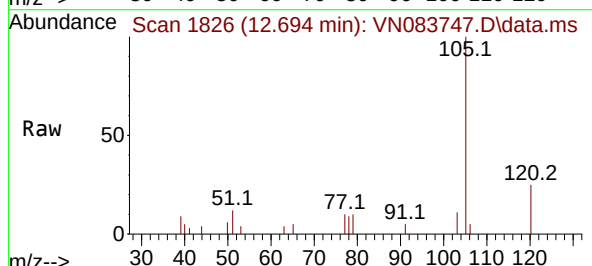
Acq: 10 Sep 2024 11:32

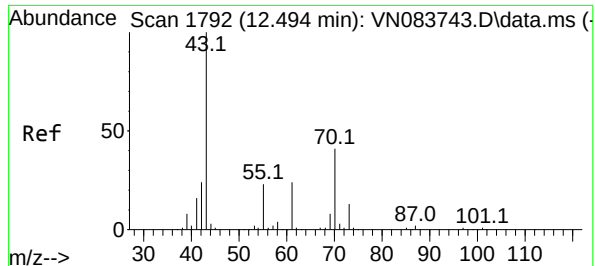
Tgt Ion:105 Resp: 6908

Ion Ratio Lower Upper

105 100

120 24.6 12.6 37.8





#74

N-amy1 acetate

Concen: 1.022 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.000 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 3100

Ion Ratio Lower Upper

43 100

70 38.6 34.5 51.7

55 23.6 18.6 28.0

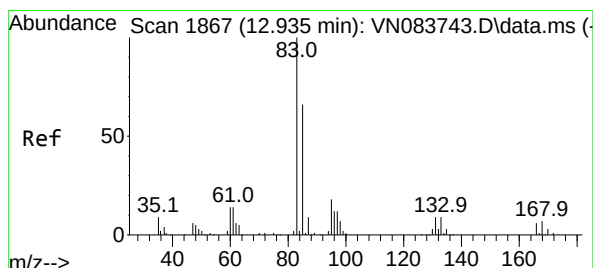
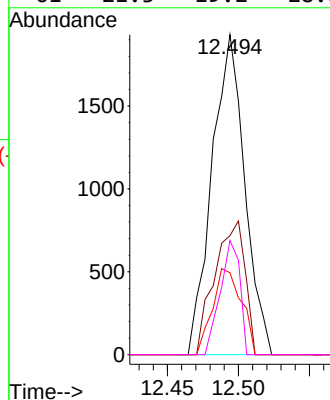
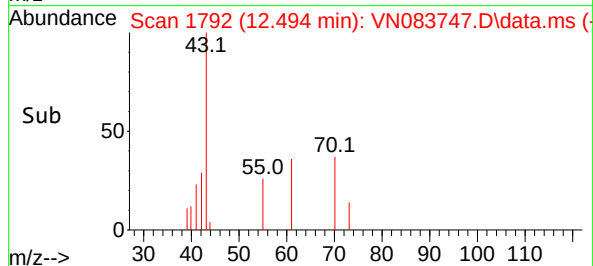
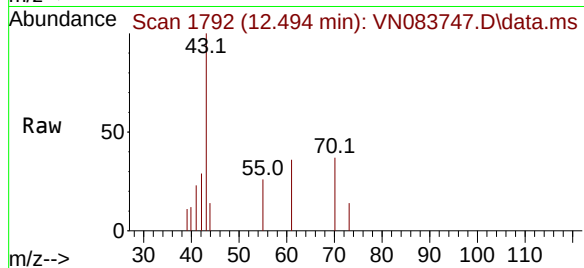
61 21.3 19.2 28.8

Manual Integrations

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Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#75

1,1,2,2-Tetrachloroethane

Concen: 1.142 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

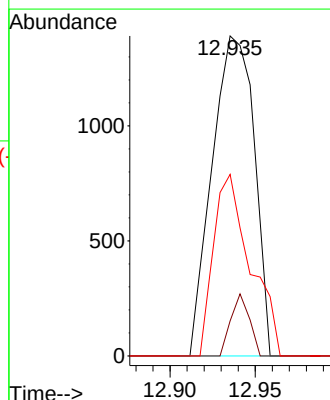
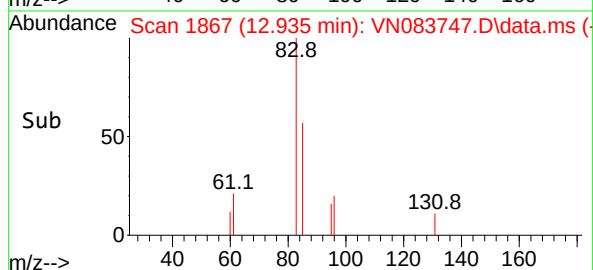
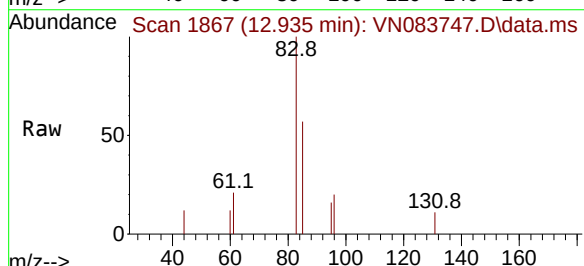
Tgt Ion: 83 Resp: 2386

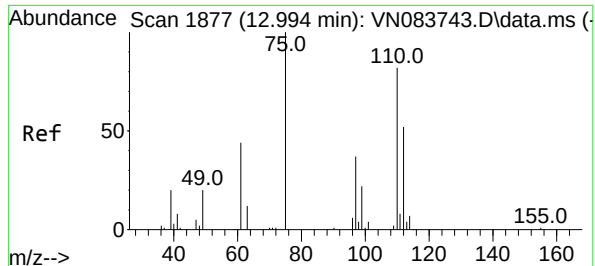
Ion Ratio Lower Upper

83 100

131 8.5 5.2 15.6

85 49.8 31.9 95.9





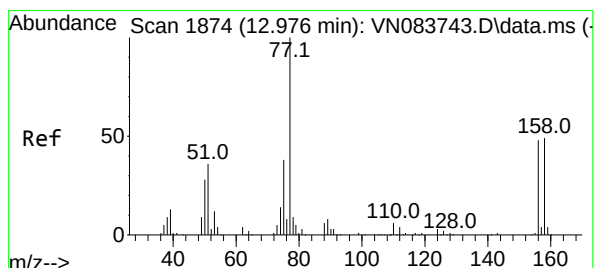
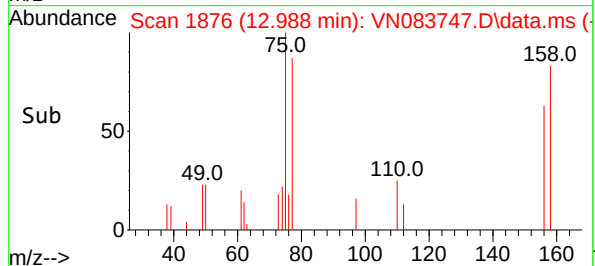
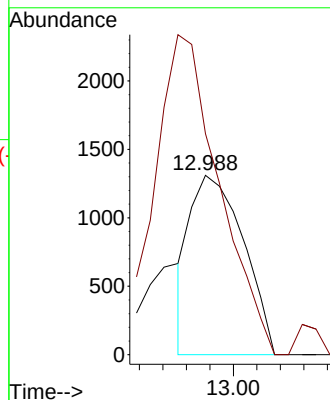
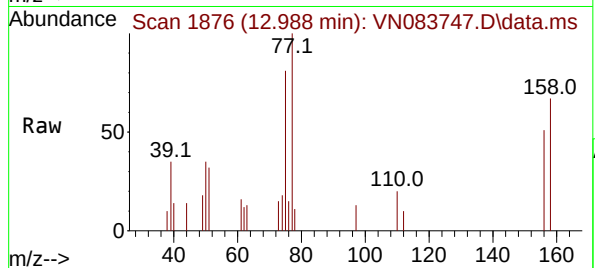
#76
1,2,3-Trichloropropane
Concen: 1.114 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 2060
Ion Ratio Lower Upper
75 100
77 216.7 95.2 285.6

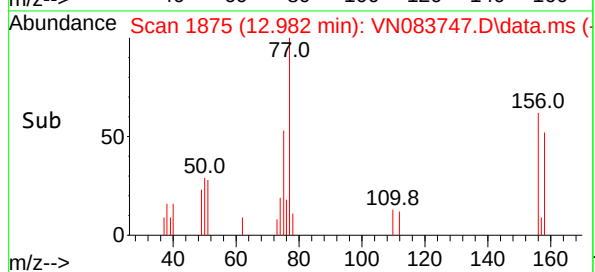
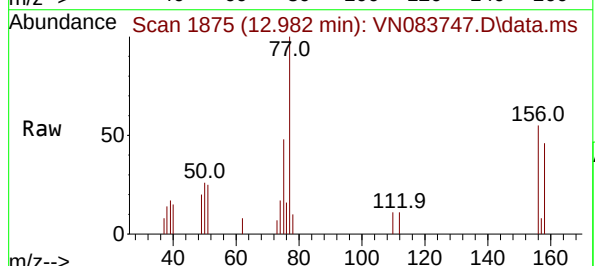
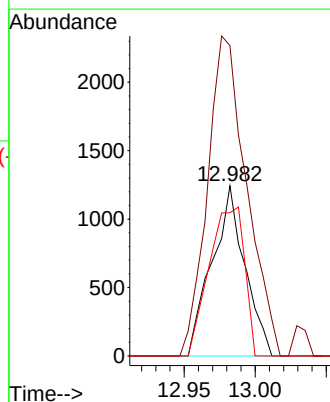
Manual Integrations
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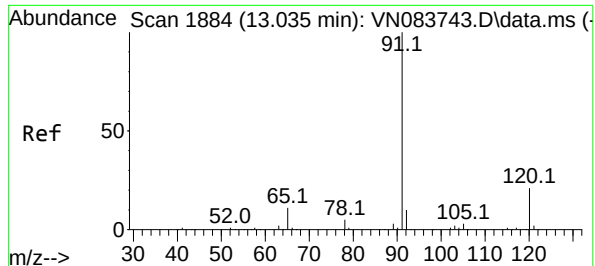
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#77
Bromobenzene
Concen: 1.167 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

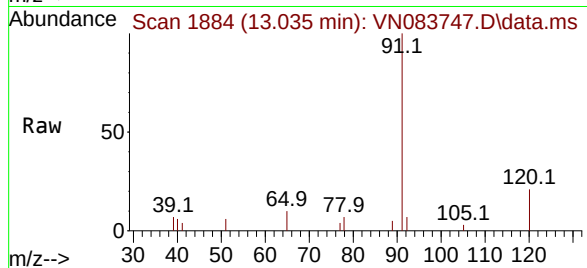
Tgt Ion:156 Resp: 1996
Ion Ratio Lower Upper
156 100
77 224.2 114.3 343.1
158 94.1 48.9 146.7





#78
n-propylbenzene
Concen: 1.013 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

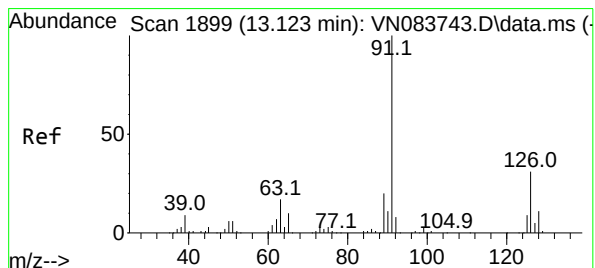
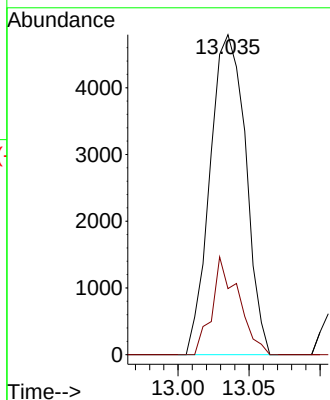
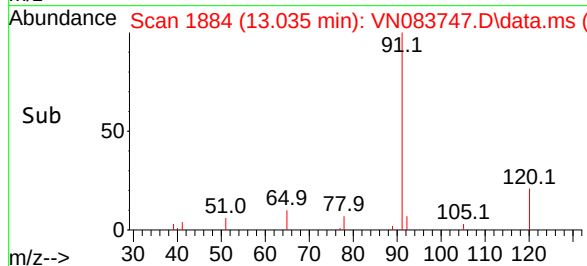
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 91 Resp: 8379
Ion Ratio Lower Upper
91 100
120 22.7 11.0 33.0

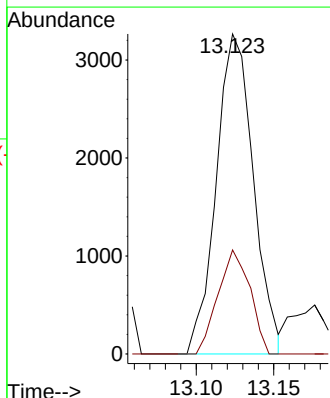
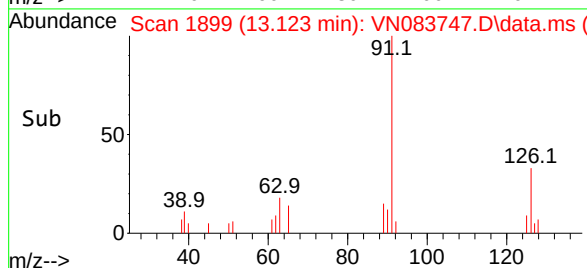
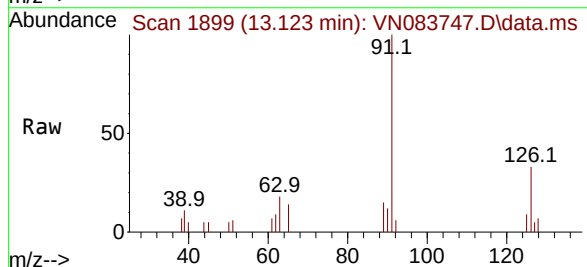
Manual Integrations
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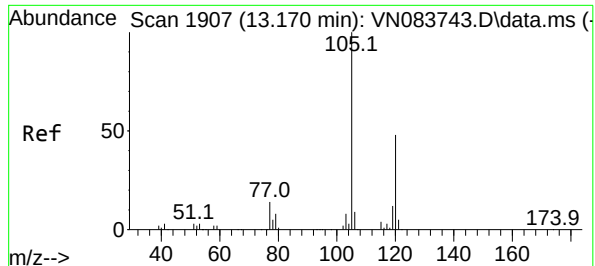
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#79
2-Chlorotoluene
Concen: 1.031 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 91 Resp: 5437
Ion Ratio Lower Upper
91 100
126 27.9 15.4 46.2





#80

1,3,5-Trimethylbenzene

Concen: 1.015 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 6080

Ion Ratio Lower Upper

105 100

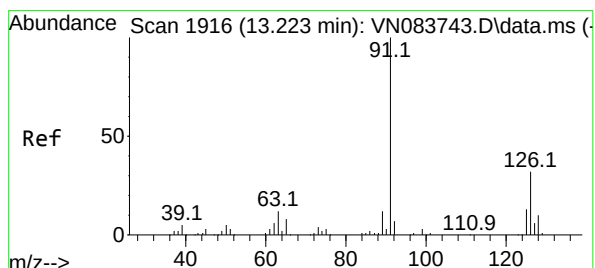
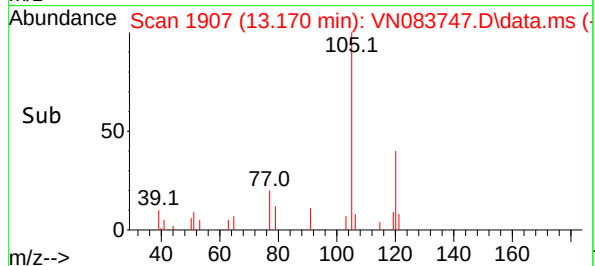
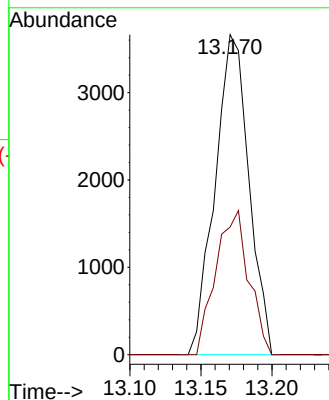
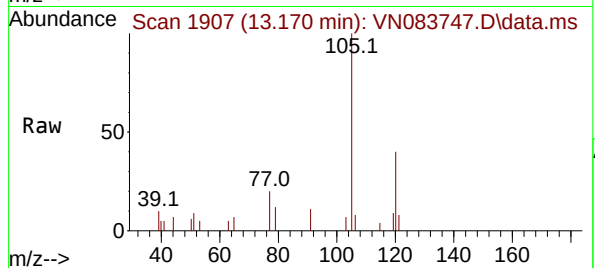
120 44.0 23.4 70.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#82

4-Chlorotoluene

Concen: 1.038 ug/l

RT: 13.218 min Scan# 1915

Delta R.T. -0.006 min

Lab File: VN083747.D

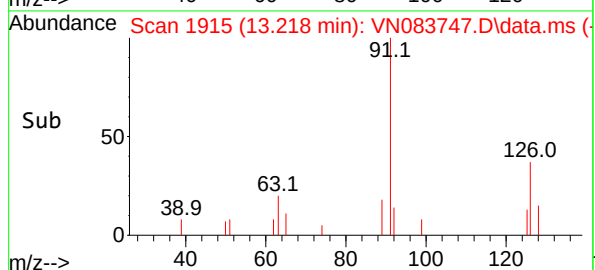
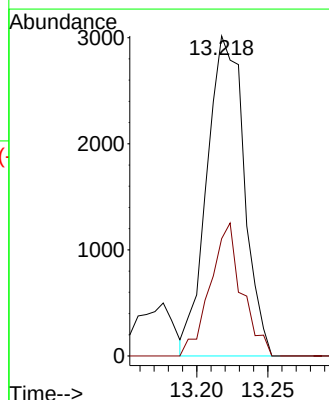
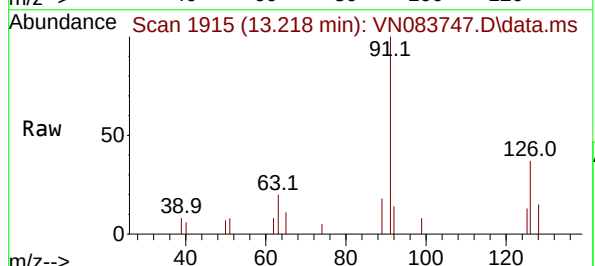
Acq: 10 Sep 2024 11:32

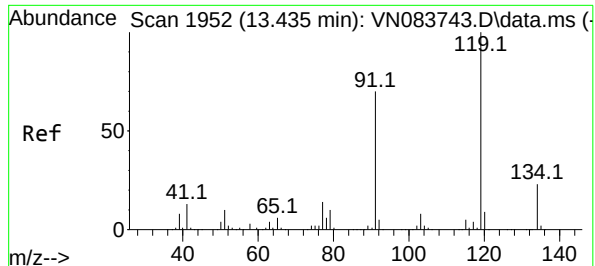
Tgt Ion: 91 Resp: 5495

Ion Ratio Lower Upper

91 100

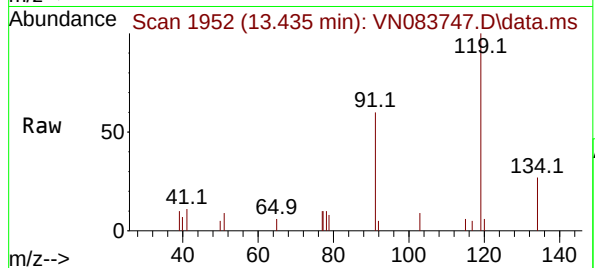
126 35.4 15.4 46.2





#83
tert-Butylbenzene
Concen: 1.013 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

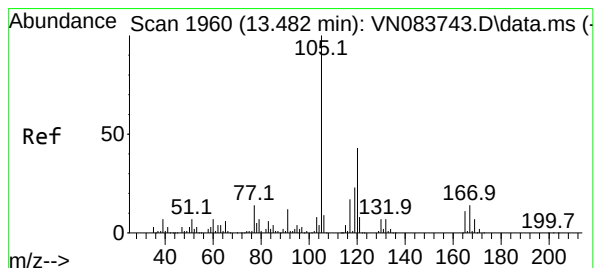
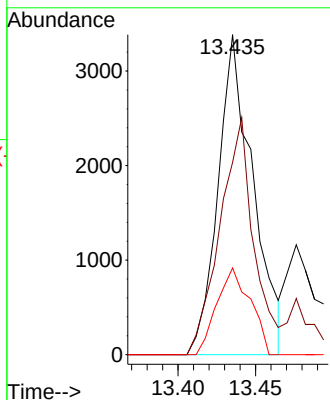
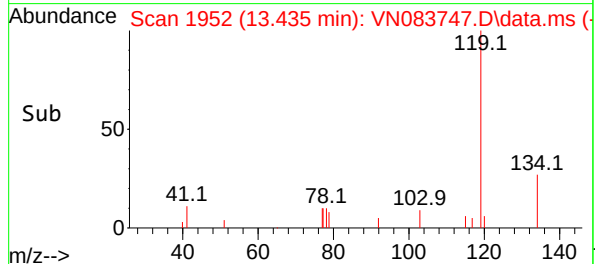
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion:119 Resp: 531
Ion Ratio Lower Upper
119 100
91 71.6 34.5 103.6
134 25.9 12.8 38.4

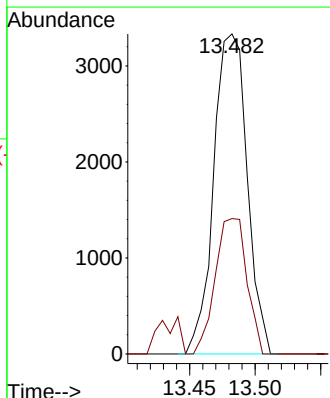
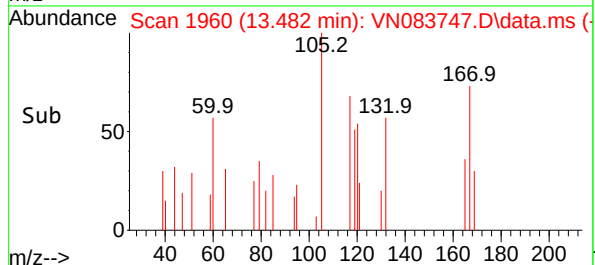
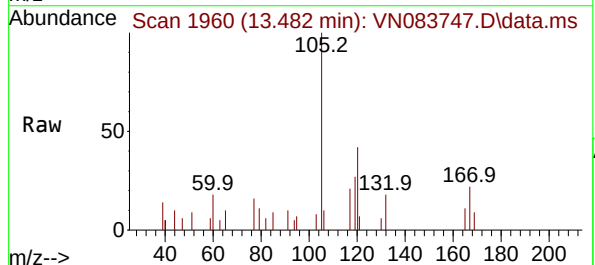
Manual Integrations
APPROVED

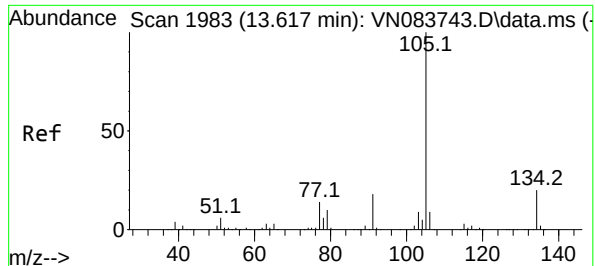
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#84
1,2,4-Trimethylbenzene
Concen: 0.982 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:105 Resp: 5912
Ion Ratio Lower Upper
105 100
120 40.0 21.8 65.4





#85

sec-Butylbenzene

Concen: 0.922 ug/l

RT: 13.618 min Scan# 1983

Delta R.T. 0.000 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion:105 Resp: 6408

Ion Ratio Lower Upper

105 100

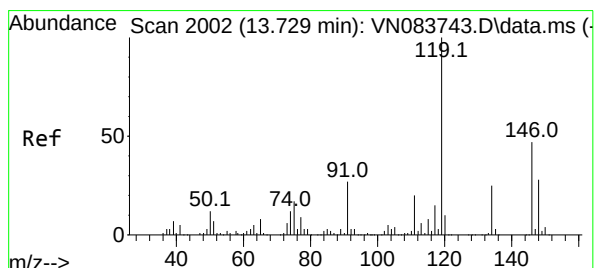
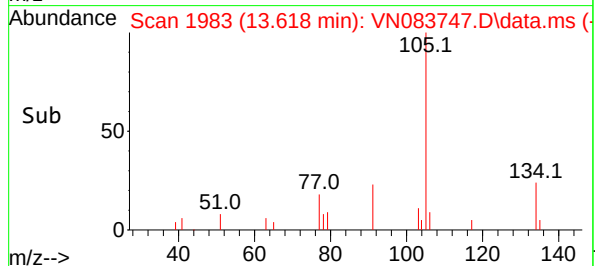
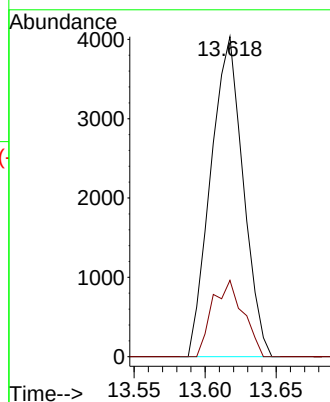
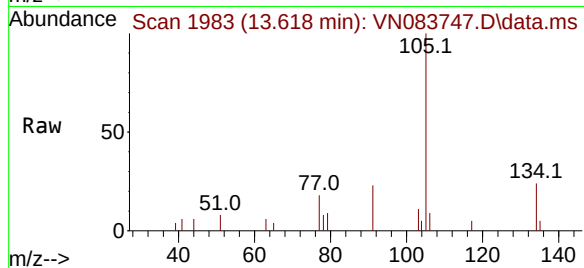
134 22.7 9.7 29.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#86

p-Isopropyltoluene

Concen: 0.959 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

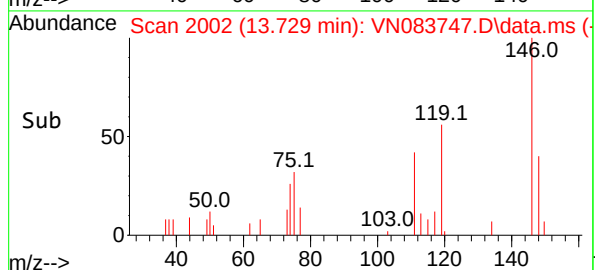
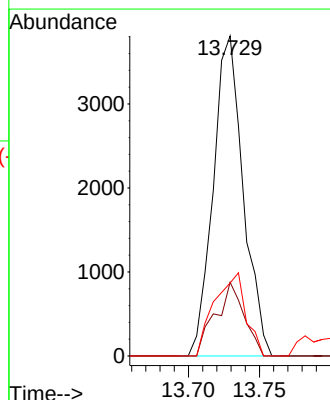
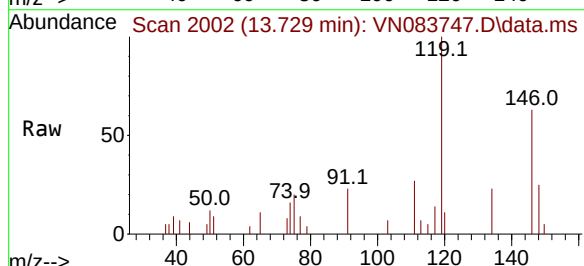
Tgt Ion:119 Resp: 5592

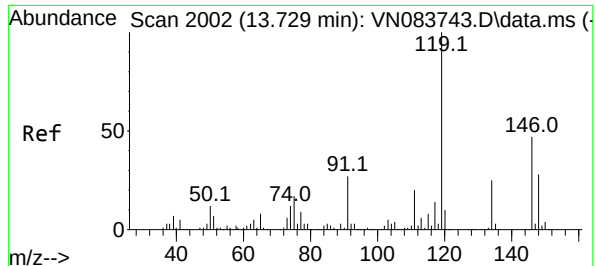
Ion Ratio Lower Upper

119 100

134 22.0 12.8 38.3

91 27.3 12.9 38.7





#87

1,3-Dichlorobenzene

Concen: 1.193 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

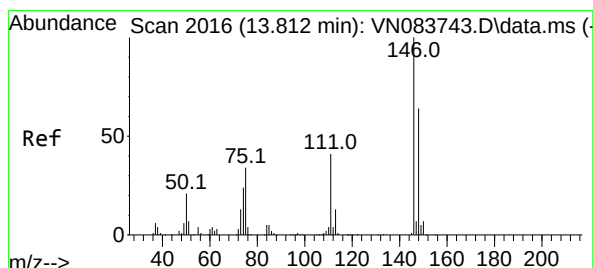
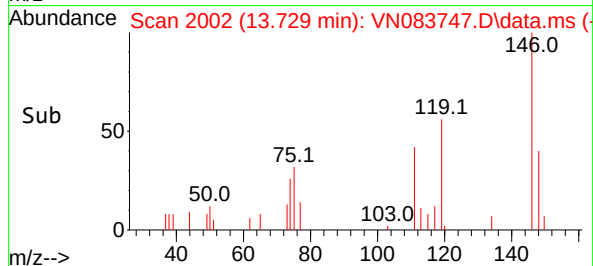
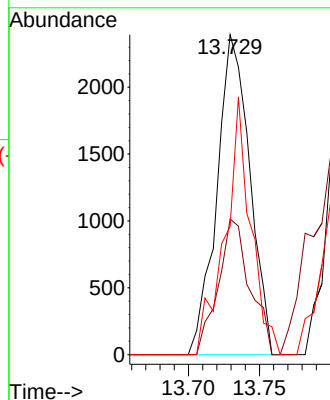
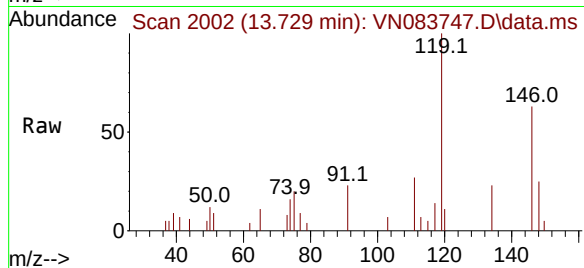
Tgt Ion:	146	Resp:	385
Ion Ratio	Lower	Upper	
146	100		
111	41.0	21.7	65.1
148	62.5	31.7	95.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#88

1,4-Dichlorobenzene

Concen: 1.210 ug/l m

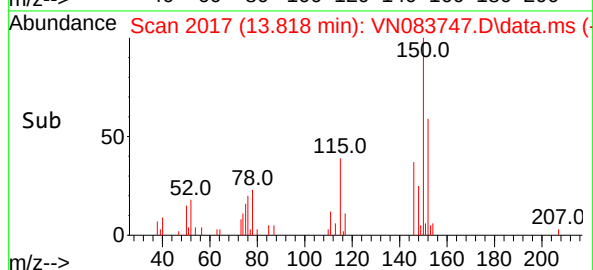
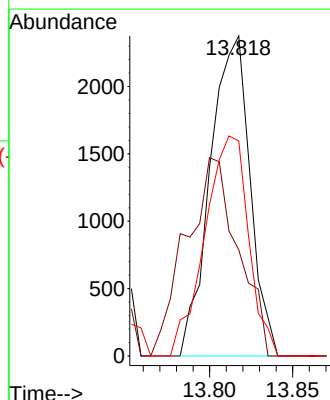
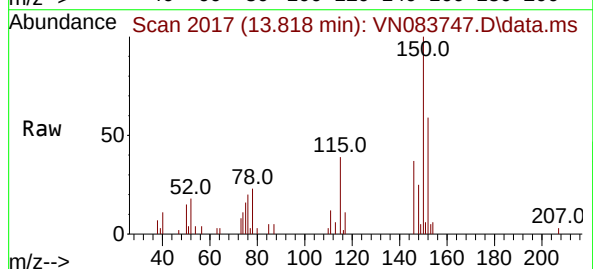
RT: 13.818 min Scan# 2017

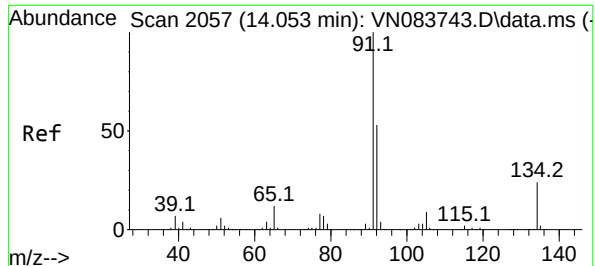
Delta R.T. 0.006 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Tgt Ion:	146	Resp:	3958
Ion Ratio	Lower	Upper	
146	100		
111	39.9	21.3	64.0
148	60.8	32.0	96.2





#89

n-Butylbenzene

Concen: 1.074 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

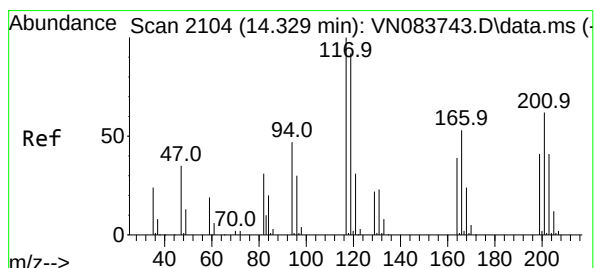
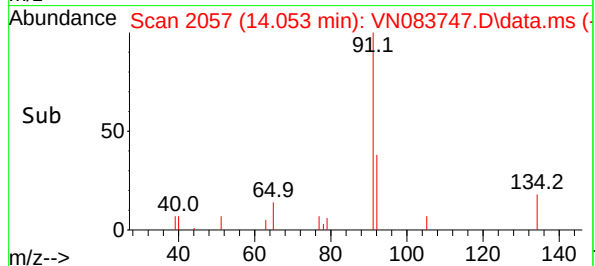
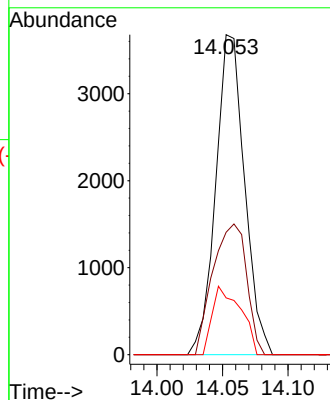
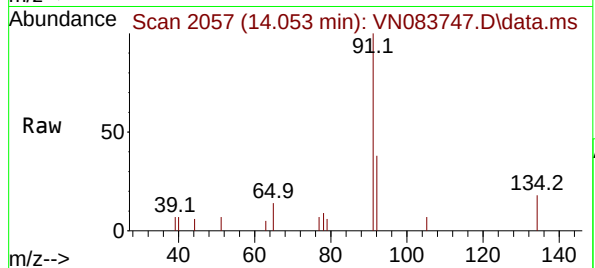
Tgt Ion: 91	Resp: 562
Ion Ratio	Lower Upper
91	100
92	47.9 26.7 80.1
134	21.0 12.2 36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#90

Hexachloroethane

Concen: 1.097 ug/l

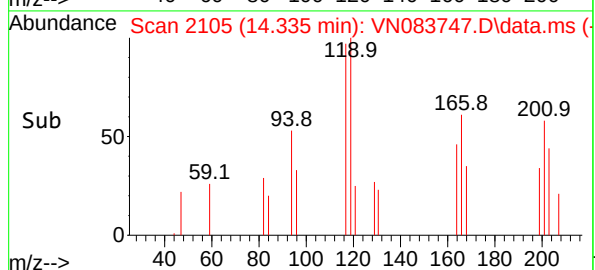
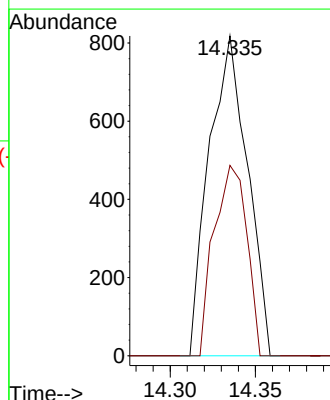
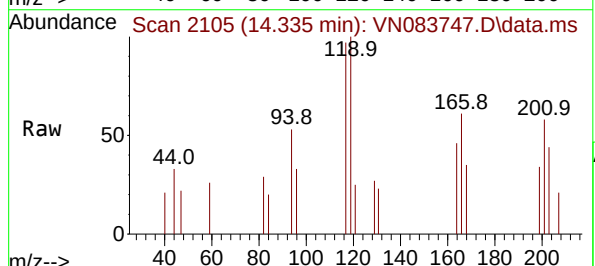
RT: 14.335 min Scan# 2105

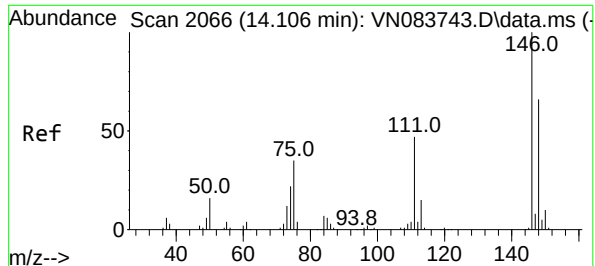
Delta R.T. 0.006 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

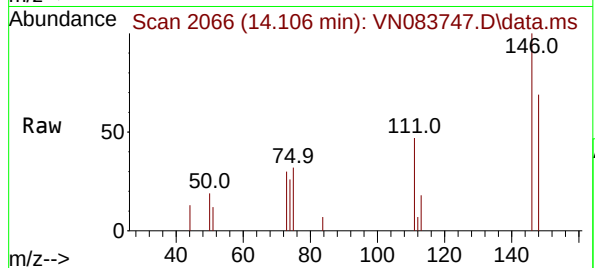
Tgt Ion: 117	Resp: 1285
Ion Ratio	Lower Upper
117	100
201	50.6 32.8 98.3





#91
1,2-Dichlorobenzene
Concen: 1.097 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

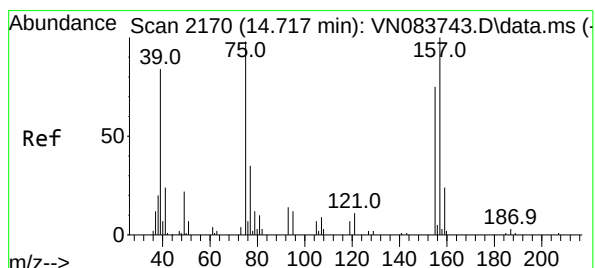
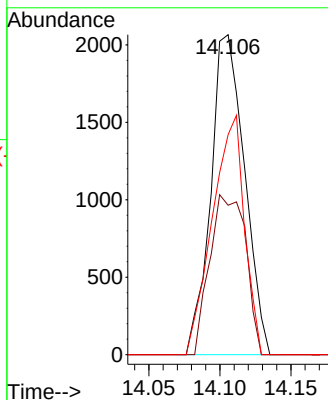
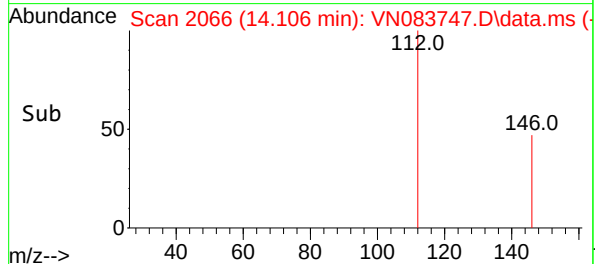
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001



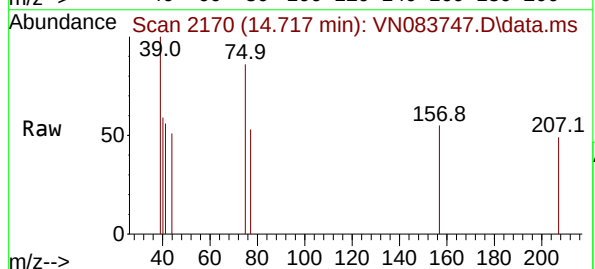
Tgt Ion:146 Resp: 3418
Ion Ratio Lower Upper
146 100
111 53.1 22.8 68.3
148 70.8 32.1 96.5

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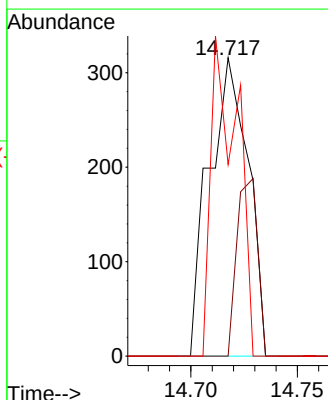
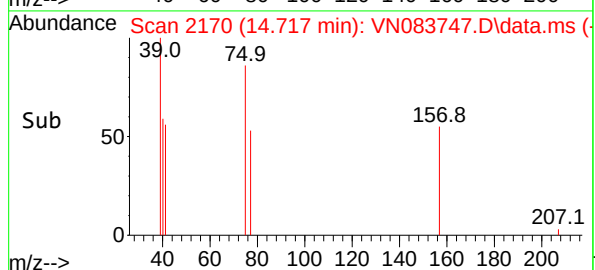
Reviewed By :John Carbone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

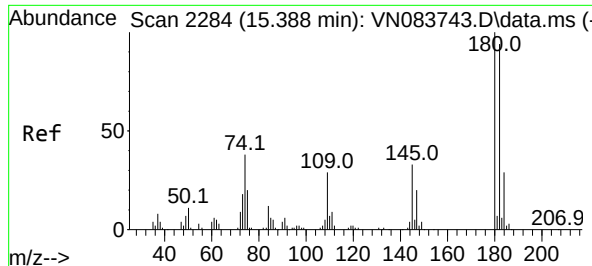


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.970 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32



Tgt Ion: 75 Resp: 404
Ion Ratio Lower Upper
75 100
155 31.7 35.9 107.7#
157 72.5 47.5 142.5





#93

1,2,4-Trichlorobenzene

Concen: 1.140 ug/l

RT: 15.394 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:180 Resp: 190

Ion Ratio Lower Upper

180 100

182 86.8 48.1 144.3

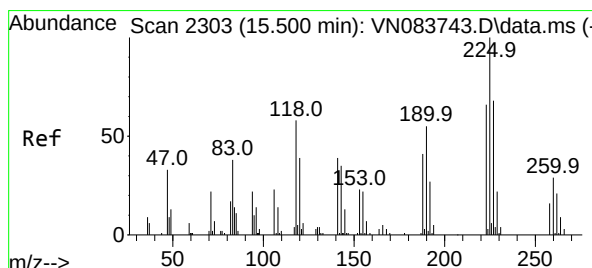
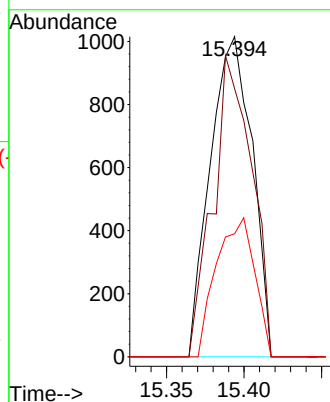
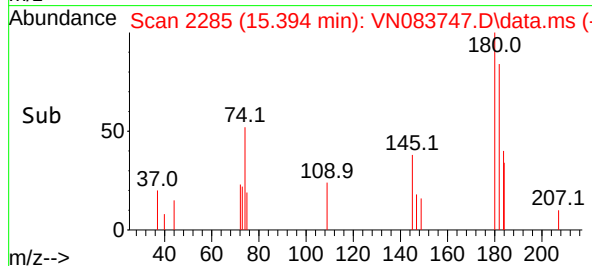
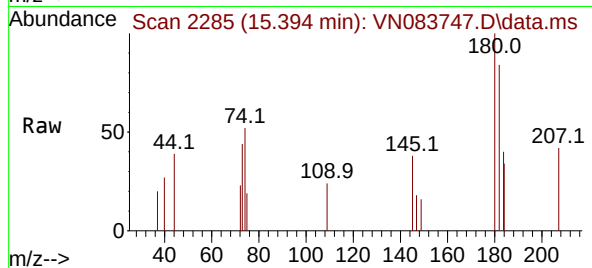
145 39.7 16.9 50.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#94

Hexachlorobutadiene

Concen: 1.194 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

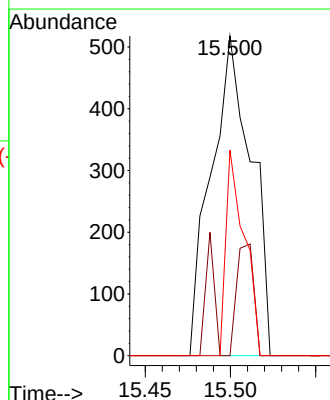
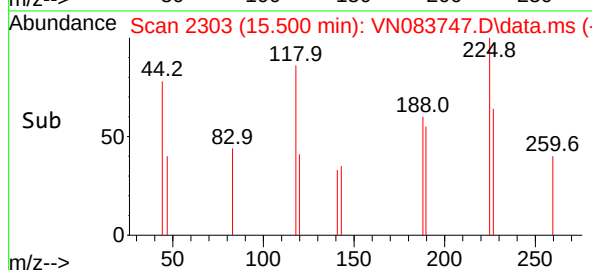
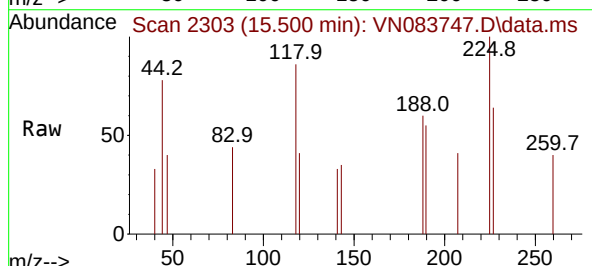
Tgt Ion:225 Resp: 848

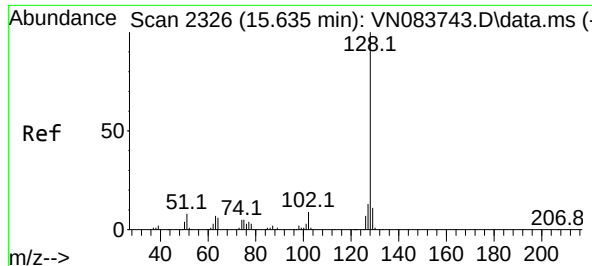
Ion Ratio Lower Upper

225 100

223 14.7 31.9 95.5#

227 29.7 32.0 96.2#





#95

Naphthalene

Concen: 1.014 ug/l

RT: 15.641 min Scan# 2326

Delta R.T. 0.006 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

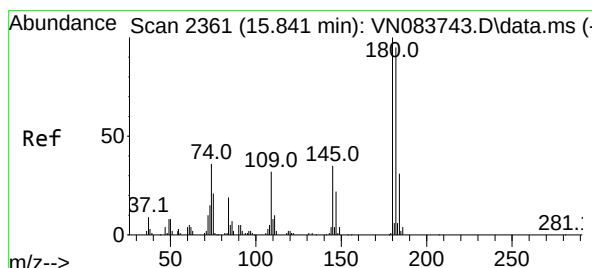
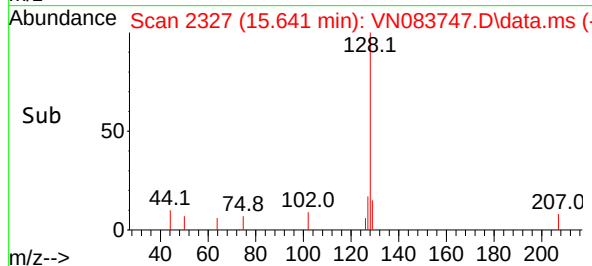
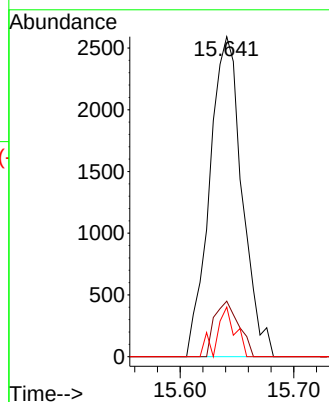
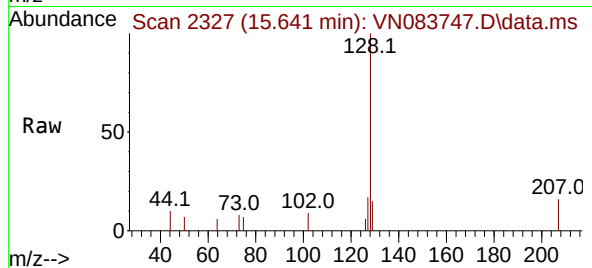
Tgt Ion:	128	Resp:	516
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	8.8	8.7	13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#96

1,2,3-Trichlorobenzene

Concen: 1.128 ug/l

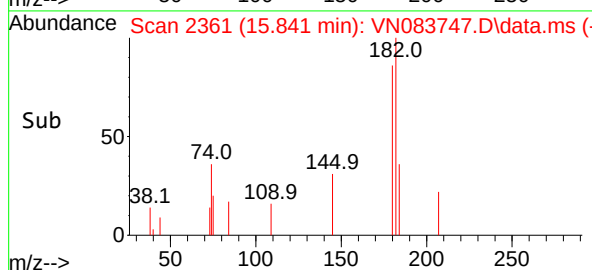
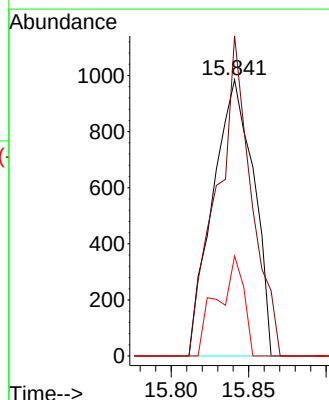
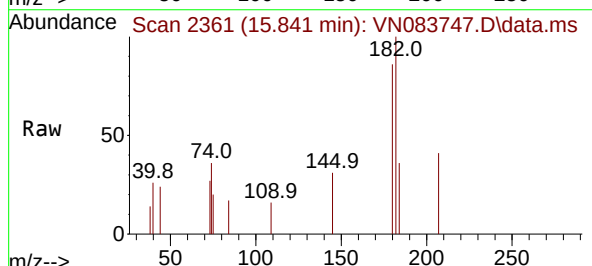
RT: 15.841 min Scan# 2361

Delta R.T. 0.000 min

Lab File: VN083747.D

Acq: 10 Sep 2024 11:32

Tgt Ion:	180	Resp:	1803
Ion	Ratio	Lower	Upper
180	100		
182	97.5	47.1	141.4
145	23.3	17.8	53.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
 Data File : VN083749.D
 Acq On : 10 Sep 2024 12:43
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Quant Time: Sep 11 01:58:52 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 01:38:19 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
 Supervised By :Semsettin Yesilyurt 09/11/2024

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	153102	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	259980	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	230981	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	120031	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	44799	19.406	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	38.820%#		
35) Dibromofluoromethane	8.159	113	33344	20.034	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	40.060%#		
50) Toluene-d8	10.565	98	117482	20.418	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	40.840%#		
62) 4-Bromofluorobenzene	12.847	95	52334	22.046	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	44.100%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	37820	21.271	ug/l	99
3) Chloromethane	2.359	50	42184	22.207	ug/l	95
4) Vinyl Chloride	2.512	62	42371	21.741	ug/l	93
5) Bromomethane	2.901	94	25120	22.449	ug/l	97
6) Chloroethane	3.071	64	29793	22.035	ug/l	92
7) Trichlorofluoromethane	3.471	101	75588	22.849	ug/l	98
8) Diethyl Ether	3.959	74	25651	23.131	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.353	101	41166	23.477	ug/l	98
10) Methyl Iodide	4.577	142	50200	22.511	ug/l	97
11) Tert butyl alcohol	5.542	59	35218	113.923	ug/l	98
12) 1,1-Dichloroethene	4.330	96	38356	23.162	ug/l	97
13) Acrolein	4.171	56	28707	94.116	ug/l	99
14) Allyl chloride	5.012	41	67821	22.985	ug/l	97
15) Acrylonitrile	5.718	53	96660	114.975	ug/l	100
16) Acetone	4.430	43	121335	131.110	ug/l	94
17) Carbon Disulfide	4.700	76	99836	21.553	ug/l	99
18) Methyl Acetate	5.018	43	45786	22.733	ug/l	98
19) Methyl tert-butyl Ether	5.794	73	139123	23.217	ug/l	97
20) Methylene Chloride	5.265	84	43066	22.740	ug/l	94
21) trans-1,2-Dichloroethene	5.777	96	39218	22.099	ug/l	90
22) Diisopropyl ether	6.665	45	141158	23.239	ug/l	96
23) Vinyl Acetate	6.594	43	528904	118.904	ug/l	99
24) 1,1-Dichloroethane	6.565	63	79312	22.664	ug/l	99
25) 2-Butanone	7.483	43	150475	123.710	ug/l	100
26) 2,2-Dichloropropane	7.483	77	77312	23.990	ug/l	98
27) cis-1,2-Dichloroethene	7.483	96	48657	23.096	ug/l	98
28) Bromochloromethane	7.812	49	27780	18.851	ug/l	99
29) Tetrahydrofuran	7.841	42	83865	116.606	ug/l	99
30) Chloroform	7.959	83	87460	23.542	ug/l	90
31) Cyclohexane	8.253	56	73847	22.133	ug/l	95
32) 1,1,1-Trichloroethane	8.165	97	79170	23.176	ug/l	93
36) 1,1-Dichloropropene	8.365	75	57819	23.081	ug/l	99
37) Ethyl Acetate	7.559	43	54774	24.088	ug/l	97
38) Carbon Tetrachloride	8.359	117	66860	23.526	ug/l	99
39) Methylcyclohexane	9.600	83	68785	24.123	ug/l	97
40) Benzene	8.600	78	180938	23.997	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
 Data File : VN083749.D
 Acq On : 10 Sep 2024 12:43
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:58:52 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M

Quant Title : SW846 8260

QLast Update : Wed Sep 11 01:38:19 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	31140	23.154	ug/l	98
42) 1,2-Dichloroethane	8.665	62	68226	24.216	ug/l	99
43) Isopropyl Acetate	8.688	43	97966	23.775	ug/l	98
44) Trichloroethene	9.353	130	40782	23.356	ug/l	96
45) 1,2-Dichloropropane	9.618	63	44560	24.451	ug/l	98
46) Dibromomethane	9.706	93	30954	24.250	ug/l	97
47) Bromodichloromethane	9.882	83	66147	23.945	ug/l #	94
48) Methyl methacrylate	9.677	41	46788	23.933	ug/l	98
49) 1,4-Dioxane	9.694	88	14984	465.914	ug/l #	96
51) 4-Methyl-2-Pentanone	10.441	43	270783	120.721	ug/l	97
52) Toluene	10.629	92	110278	23.911	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	65148	23.266	ug/l	96
54) cis-1,3-Dichloropropene	10.312	75	70696	24.035	ug/l	94
55) 1,1,2-Trichloroethane	11.018	97	40247	23.375	ug/l	96
56) Ethyl methacrylate	10.871	69	65086	24.569	ug/l	96
57) 1,3-Dichloropropane	11.159	76	70916	23.964	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	97384	102.024	ug/l	98
59) 2-Hexanone	11.194	43	210382	126.795	ug/l	98
60) Dibromochloromethane	11.359	129	45716	23.725	ug/l	99
61) 1,2-Dibromoethane	11.471	107	40643	23.669	ug/l	98
64) Tetrachloroethene	11.106	164	34851	22.688	ug/l	93
65) Chlorobenzene	11.888	112	116122	22.620	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	41153	23.124	ug/l	98
67) Ethyl Benzene	11.965	91	210713	23.106	ug/l	97
68) m/p-Xylenes	12.071	106	158230	46.734	ug/l	100
69) o-Xylene	12.400	106	76822	23.438	ug/l	99
70) Styrene	12.412	104	125129	23.262	ug/l	98
71) Bromoform	12.576	173	27805	23.185	ug/l #	99
73) Isopropylbenzene	12.694	105	198534	21.379	ug/l	100
74) N-amyl acetate	12.494	43	83761	21.141	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.941	83	55934	20.500	ug/l	97
76) 1,2,3-Trichloropropane	12.994	75	49535m	20.452	ug/l	
77) Bromobenzene	12.982	156	44670	19.984	ug/l	100
78) n-propylbenzene	13.035	91	229309	21.223	ug/l	99
79) 2-Chlorotoluene	13.123	91	147252	21.370	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	167379	21.379	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	18748	20.274	ug/l #	80
82) 4-Chlorotoluene	13.223	91	143958	20.818	ug/l	99
83) tert-Butylbenzene	13.441	119	147261	21.499	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	167470	21.294	ug/l	100
85) sec-Butylbenzene	13.618	105	197117	21.699	ug/l	98
86) p-Isopropyltoluene	13.729	119	160758	21.110	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	84190	19.957	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	82492	19.311	ug/l	99
89) n-Butylbenzene	14.059	91	140204	20.506	ug/l	99
90) Hexachloroethane	14.335	117	31578	20.629	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	83557	20.523	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.723	75	11364	20.893	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	42008	19.228	ug/l	98
94) Hexachlorobutadiene	15.500	225	19047	20.528	ug/l	99
95) Naphthalene	15.641	128	128956	19.401	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	40335	19.317	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083749.D
Acq On : 10 Sep 2024 12:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:58:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

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

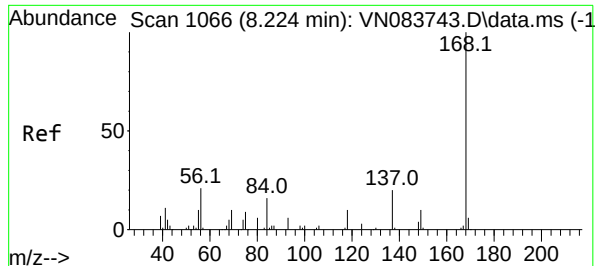
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

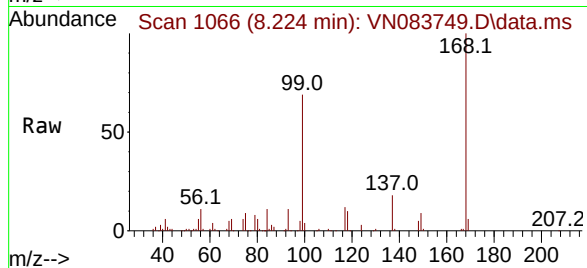
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

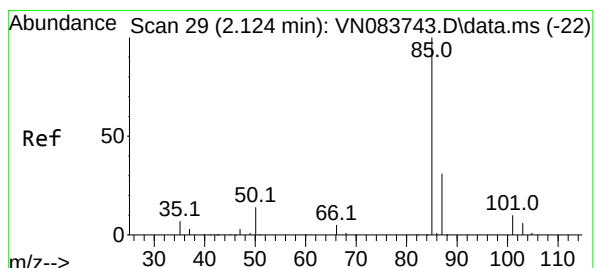
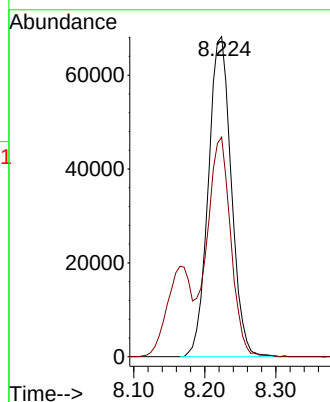
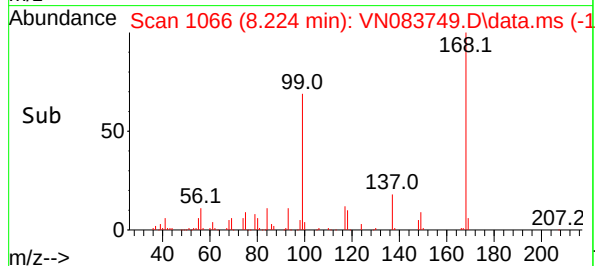
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:168 Resp: 15310
Ion Ratio Lower Upper
168 100
99 68.6 54.2 81.2

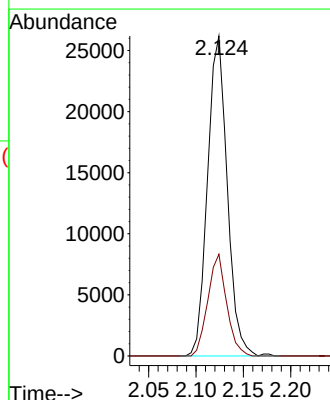
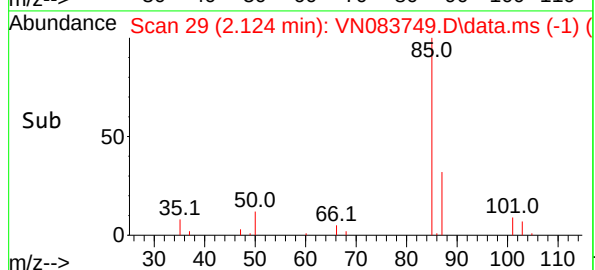
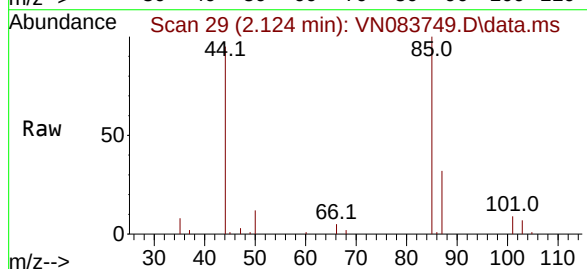
Manual Integrations
APPROVED

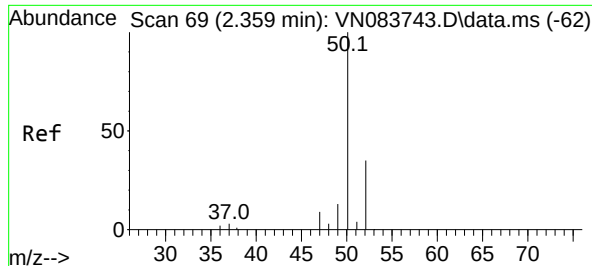
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#2
Dichlorodifluoromethane
Concen: 21.271 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 85 Resp: 37820
Ion Ratio Lower Upper
85 100
87 31.8 15.7 47.0





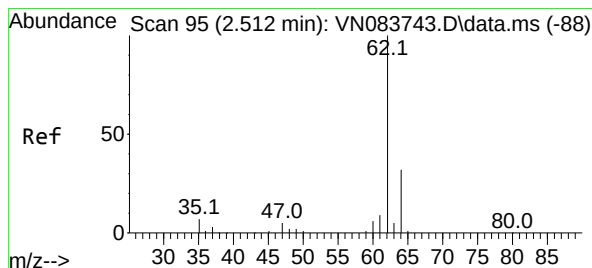
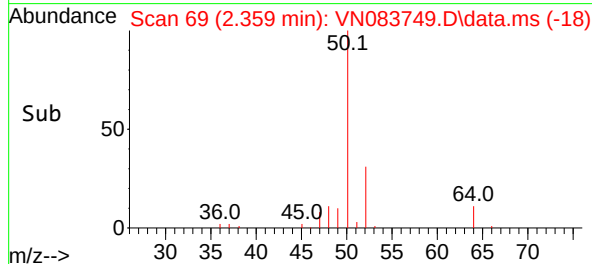
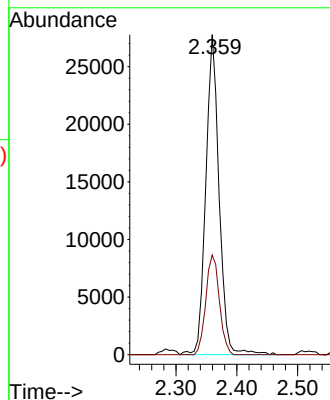
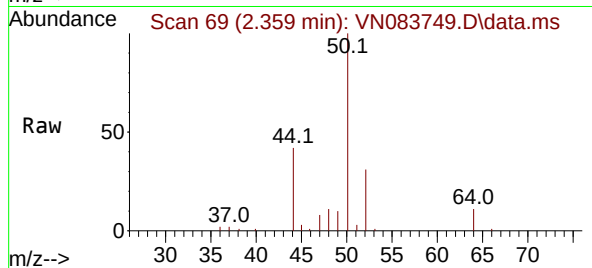
#3
Chloromethane
Concen: 22.207 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 42184
Ion Ratio Lower Upper
50 100
52 31.1 27.2 40.8

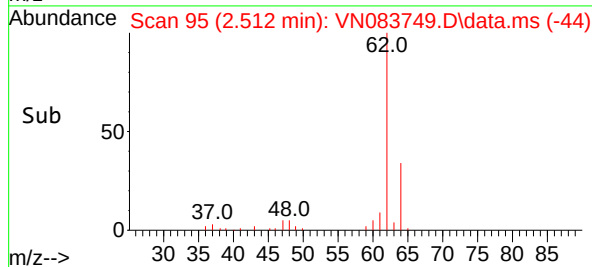
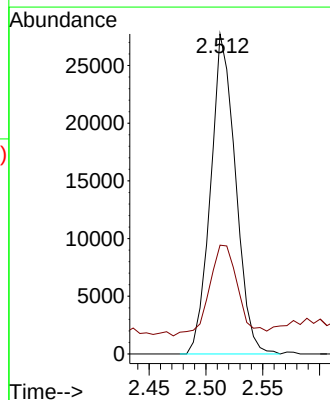
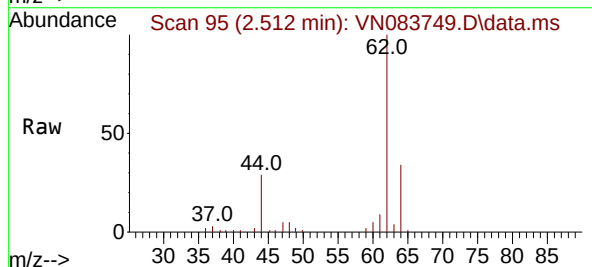
Manual Integrations
APPROVED

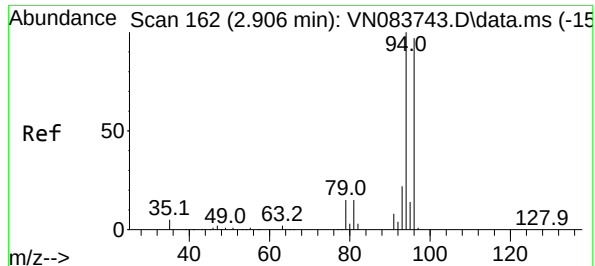
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#4
Vinyl Chloride
Concen: 21.741 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 62 Resp: 42371
Ion Ratio Lower Upper
62 100
64 27.2 24.7 37.1





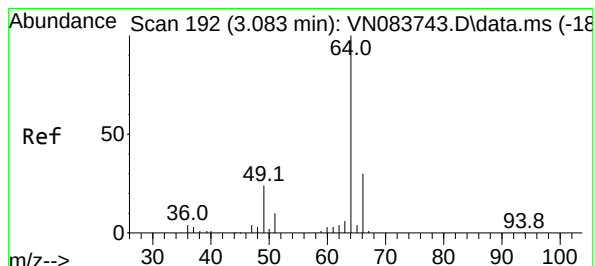
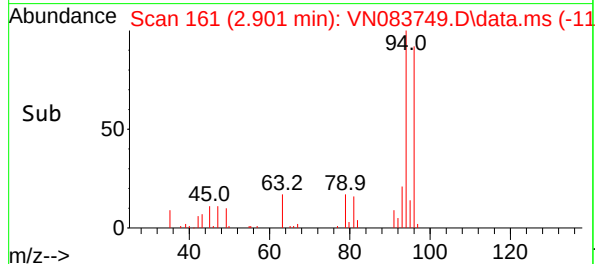
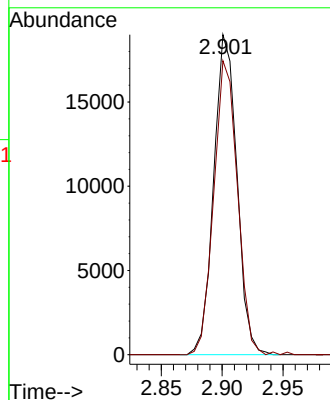
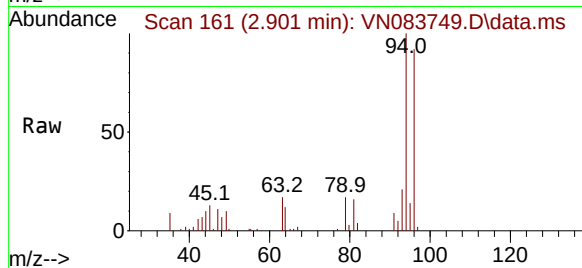
#5
Bromomethane
Concen: 22.449 ug/l
RT: 2.901 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 25120
Ion Ratio Lower Upper
94 100
96 91.9 76.0 114.0

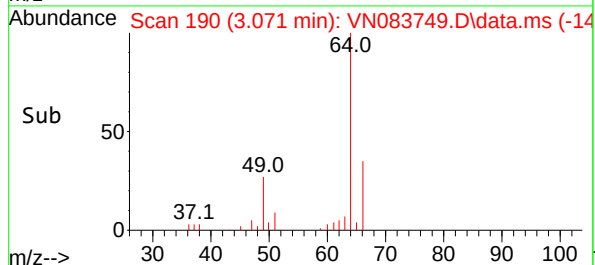
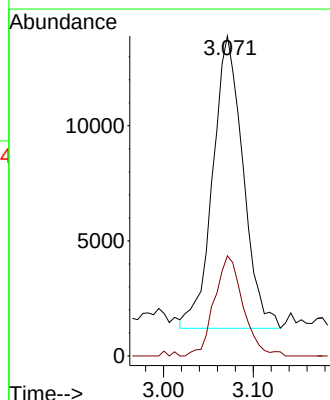
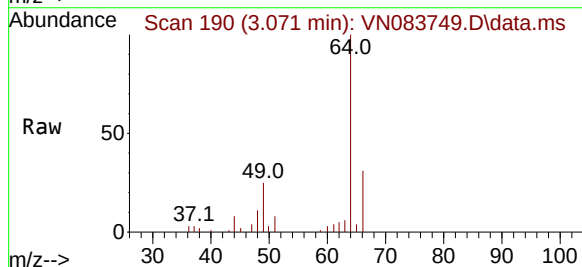
Manual Integrations
APPROVED

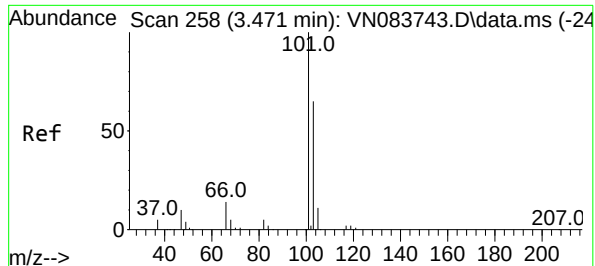
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#6
Chloroethane
Concen: 22.035 ug/l
RT: 3.071 min Scan# 190
Delta R.T. -0.012 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 64 Resp: 29793
Ion Ratio Lower Upper
64 100
66 34.3 23.9 35.9





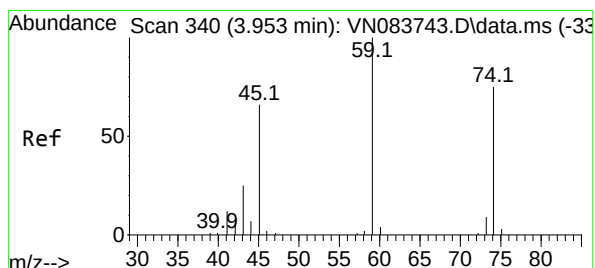
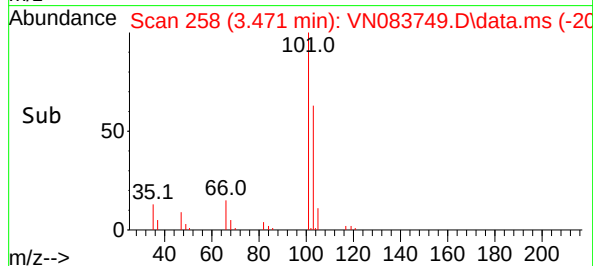
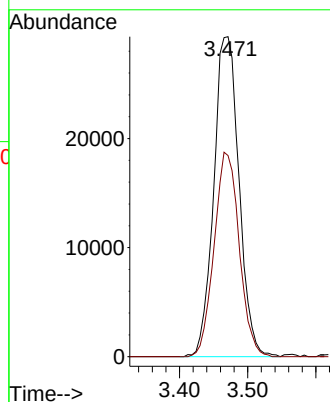
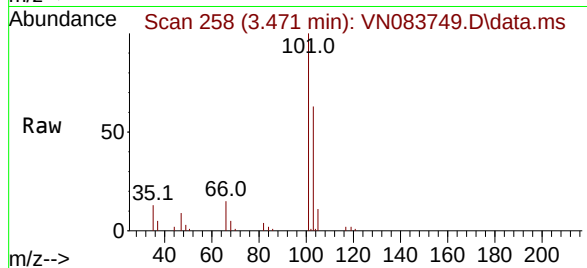
#7
Trichlorofluoromethane
Concen: 22.849 ug/l
RT: 3.471 min Scan# 258
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 7558
Ion Ratio Lower Upper
101 100
103 62.9 51.4 77.0

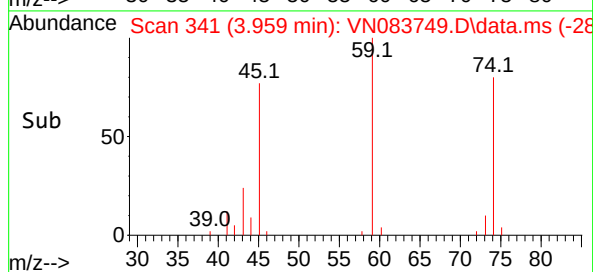
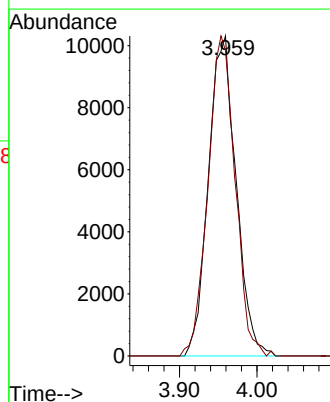
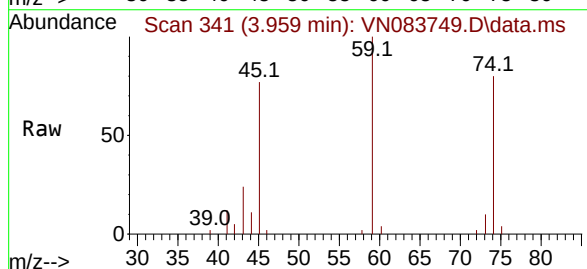
Manual Integrations
APPROVED

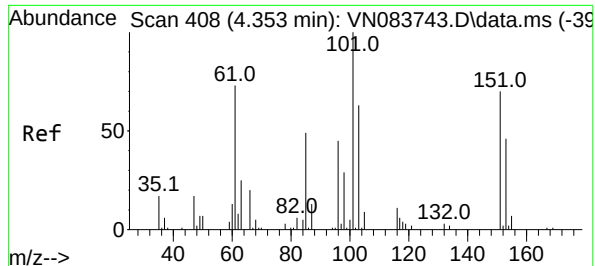
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#8
Diethyl Ether
Concen: 23.131 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 74 Resp: 25651
Ion Ratio Lower Upper
74 100
45 97.8 46.7 140.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.477 ug/l

RT: 4.353 min Scan# 408

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:101 Resp: 4116

Ion Ratio Lower Upper

101 100

85 48.3 36.2 54.4

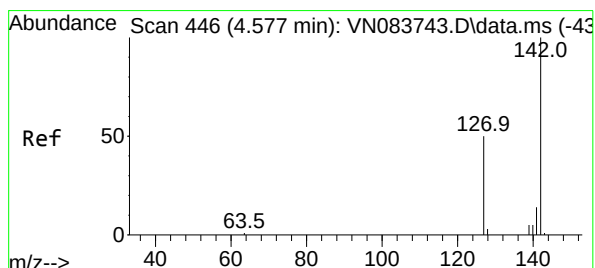
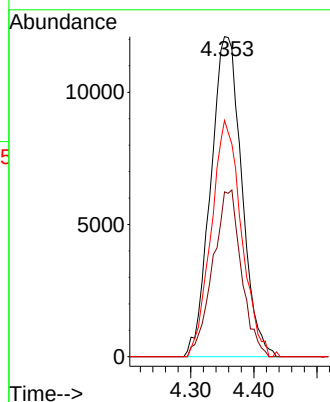
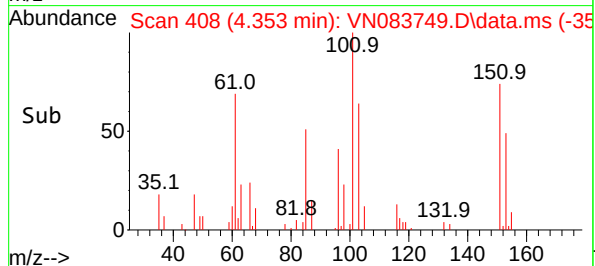
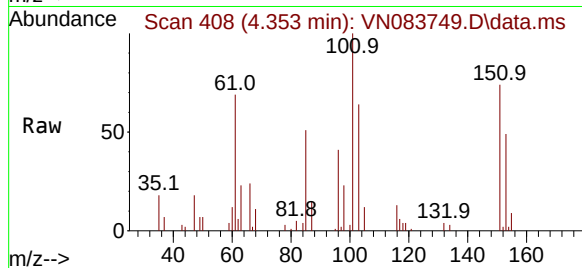
151 71.8 57.7 86.5

Manual Integrations

APPROVED

Reviewed By :John Carbone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#10

Methyl Iodide

Concen: 22.511 ug/l

RT: 4.577 min Scan# 446

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

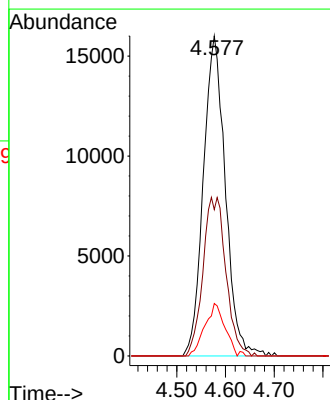
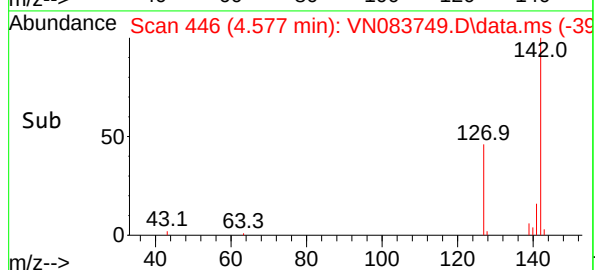
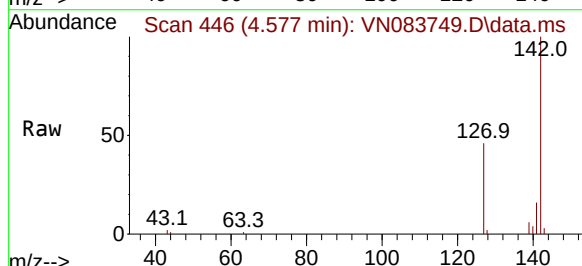
Tgt Ion:142 Resp: 50200

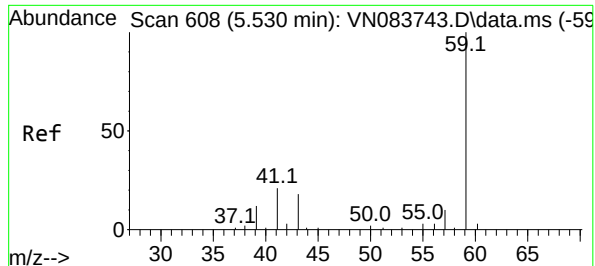
Ion Ratio Lower Upper

142 100

127 45.8 37.5 56.3

141 16.4 11.0 16.4





#11

Tert butyl alcohol

Concen: 113.923 ug/l

RT: 5.542 min Scan# 610

Delta R.T. 0.012 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 59 Resp: 35218

Ion Ratio Lower Upper

59 100

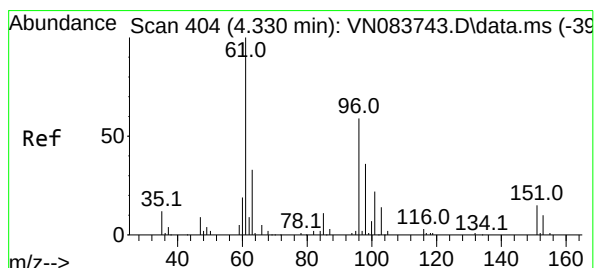
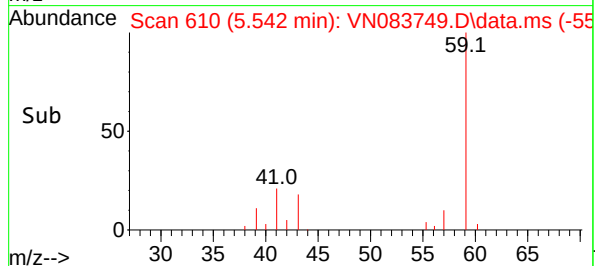
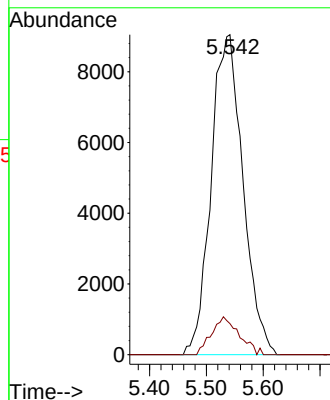
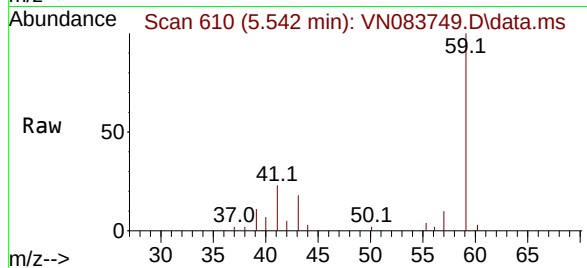
57 10.3 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#12

1,1-Dichloroethene

Concen: 23.162 ug/l

RT: 4.330 min Scan# 404

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

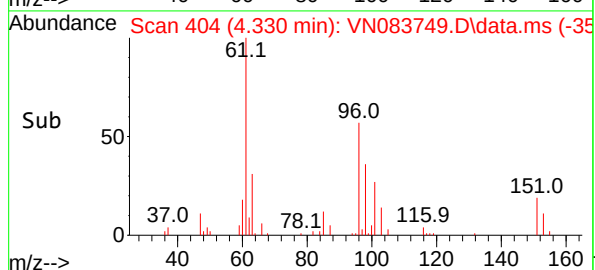
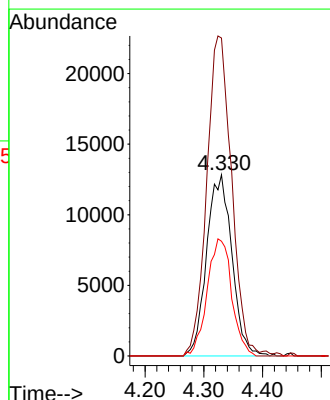
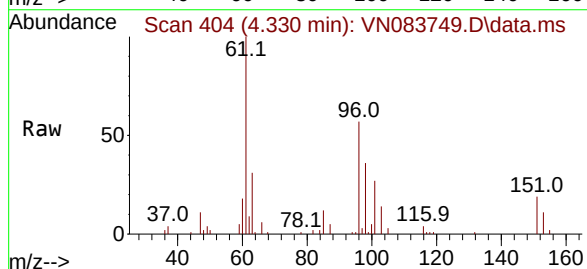
Tgt Ion: 96 Resp: 38356

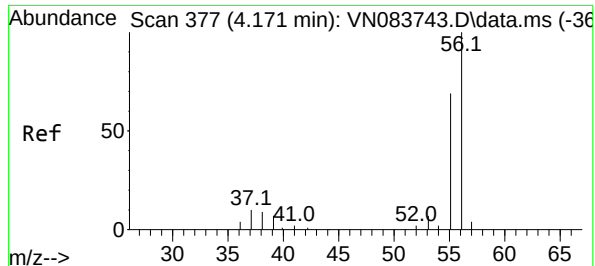
Ion Ratio Lower Upper

96 100

61 175.6 143.4 215.0

98 63.4 52.7 79.1





#13

Acrolein

Concen: 94.116 ug/l

RT: 4.171 min Scan# 31

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 2870

Ion Ratio Lower Upper

56 100

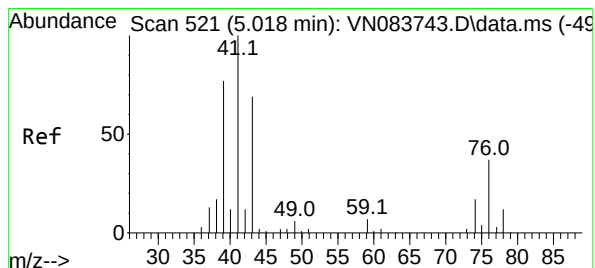
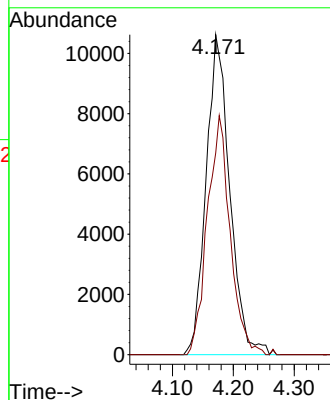
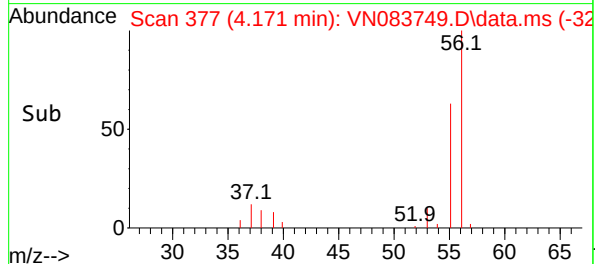
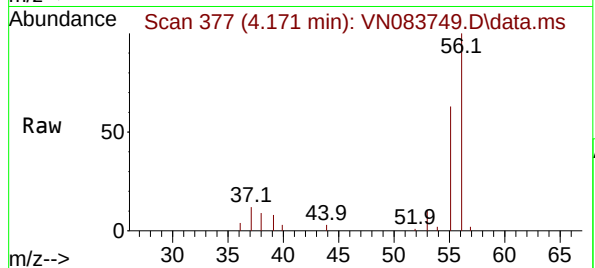
55 72.0 58.2 87.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#14

Allyl chloride

Concen: 22.985 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.006 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

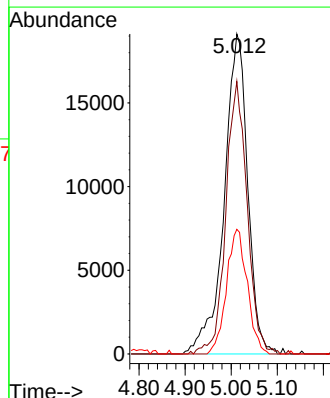
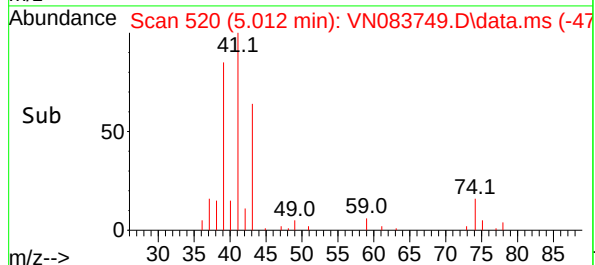
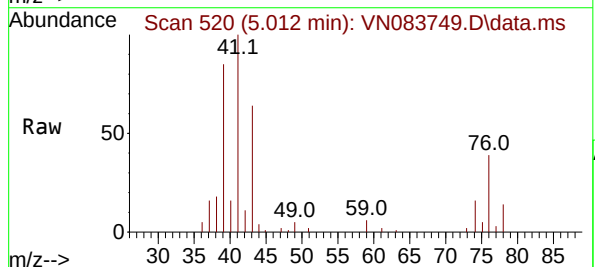
Tgt Ion: 41 Resp: 67821

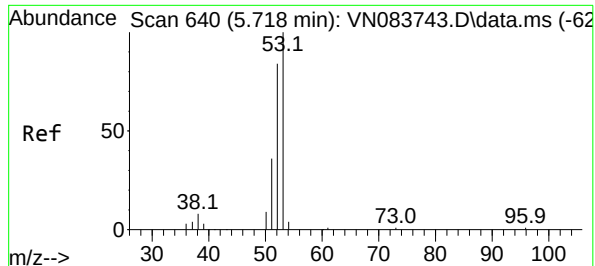
Ion Ratio Lower Upper

41 100

39 77.1 59.3 88.9

76 34.4 27.7 41.5





#15

Acrylonitrile

Concen: 114.975 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN083749.D

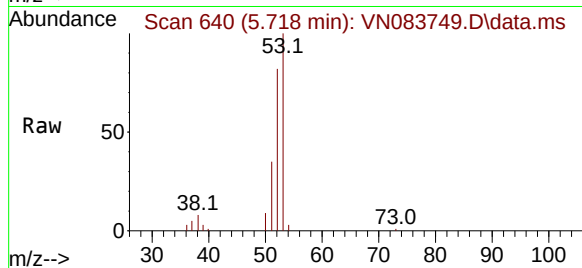
Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

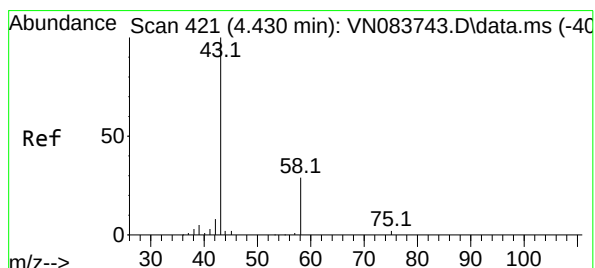
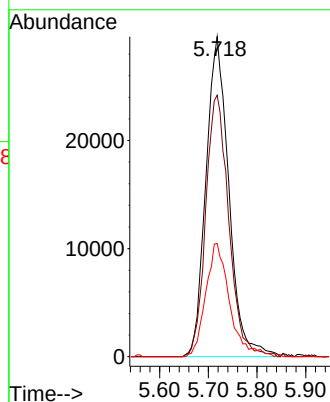
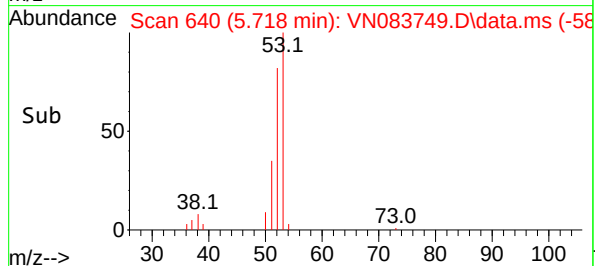
VSTDIC020



Tgt Ion:	53	Resp:	96660
Ion	Ratio	Lower	Upper
53	100		
52	82.1	66.1	99.1
51	36.9	29.6	44.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#16

Acetone

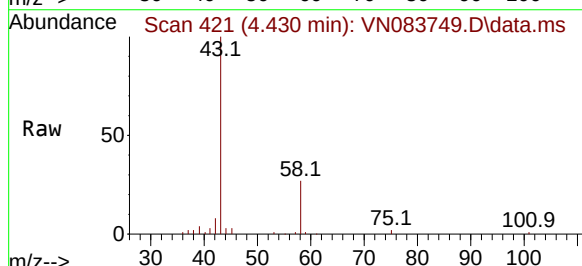
Concen: 131.110 ug/l

RT: 4.430 min Scan# 421

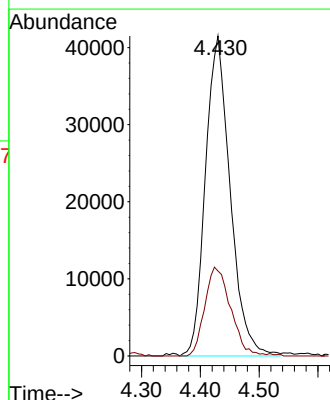
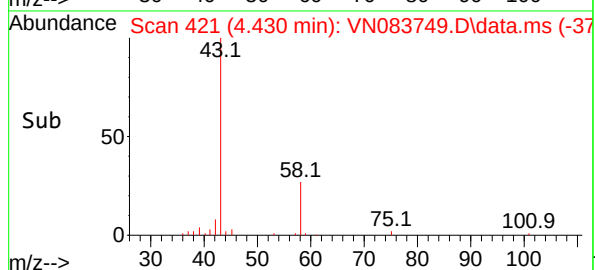
Delta R.T. 0.000 min

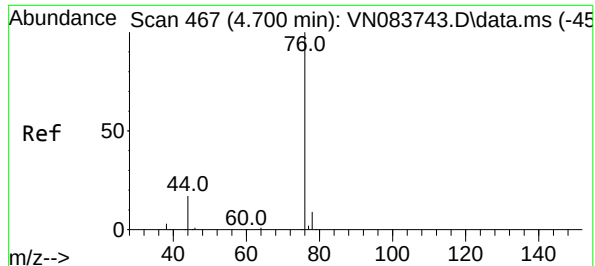
Lab File: VN083749.D

Acq: 10 Sep 2024 12:43



Tgt Ion:	43	Resp:	121335
Ion	Ratio	Lower	Upper
43	100		
58	26.5	23.7	35.5





#17

Carbon Disulfide

Concen: 21.553 ug/l

RT: 4.700 min Scan# 40

Delta R.T. 0.000 min

Lab File: VN083749.D

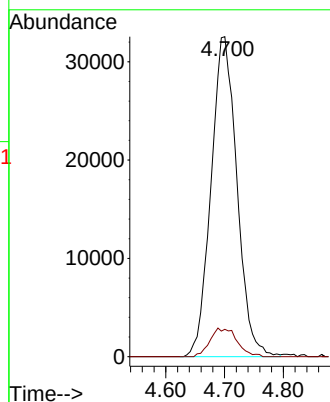
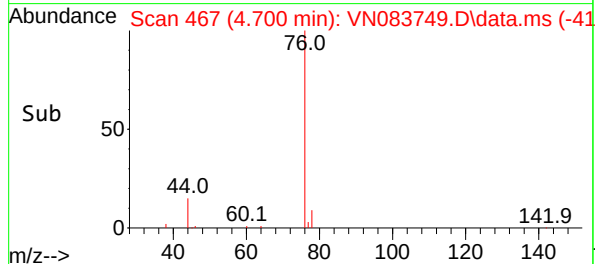
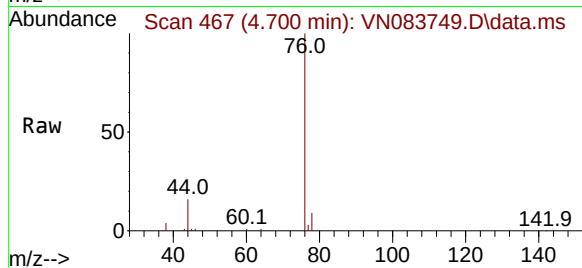
Acq: 10 Sep 2024 12:43

Tgt Ion: 76 Resp: 9983

Ion Ratio Lower Upper

76 100

78 8.5 7.1 10.7



Instrument :

MSVOA_N

ClientSampleId :

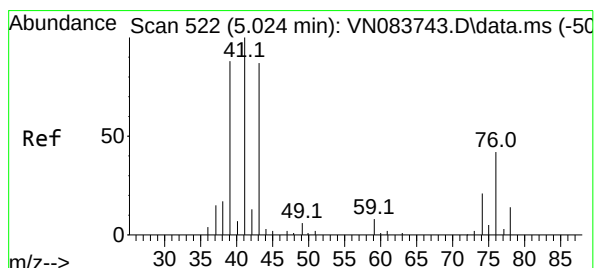
VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#18

Methyl Acetate

Concen: 22.733 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.006 min

Lab File: VN083749.D

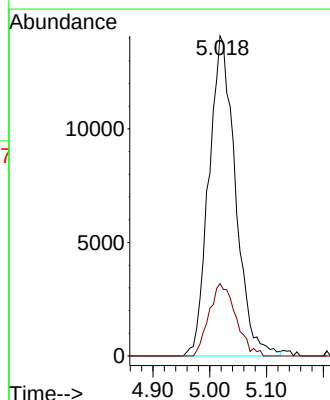
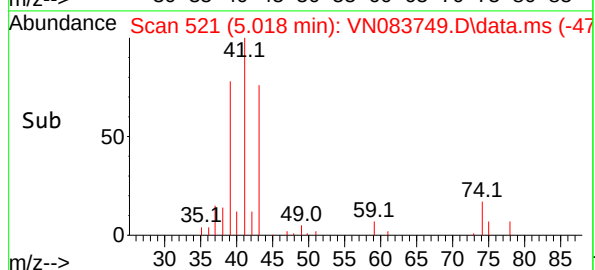
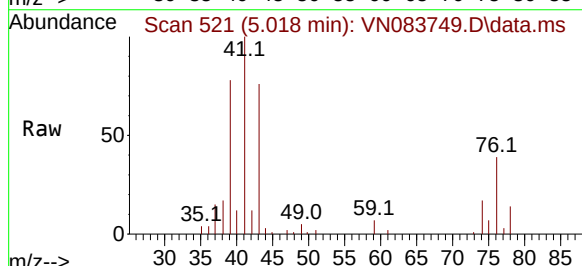
Acq: 10 Sep 2024 12:43

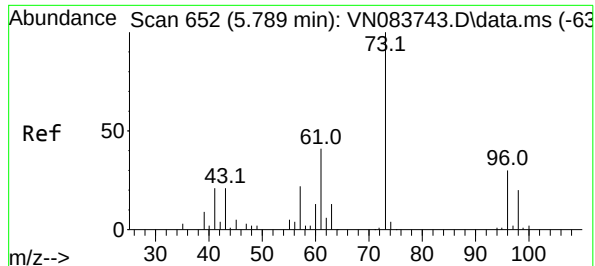
Tgt Ion: 43 Resp: 45786

Ion Ratio Lower Upper

43 100

74 22.9 19.0 28.4





#19

Methyl tert-butyl Ether

Concen: 23.217 ug/l

RT: 5.794 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 73 Resp: 13912

Ion Ratio Lower Upper

73 100

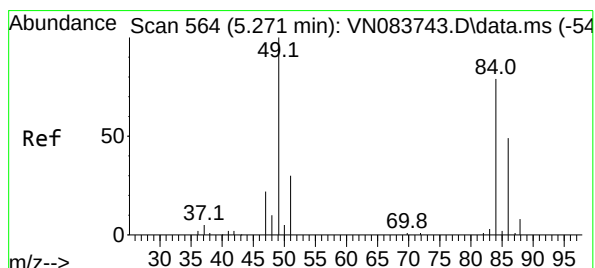
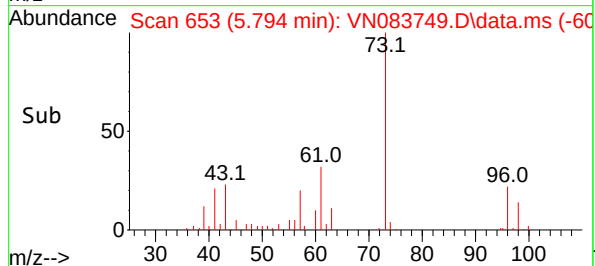
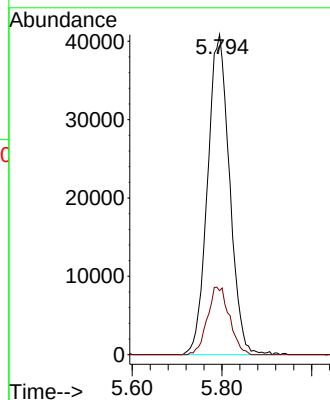
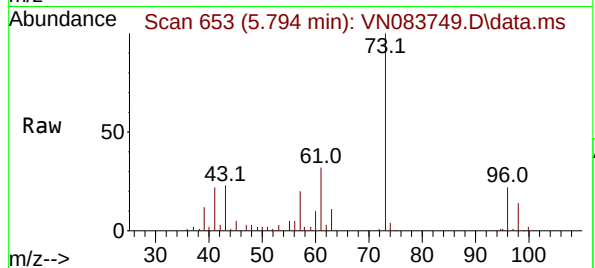
57 20.0 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#20

Methylene Chloride

Concen: 22.740 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.006 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Tgt Ion: 84 Resp: 43066

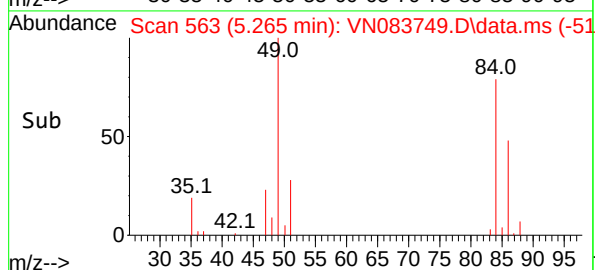
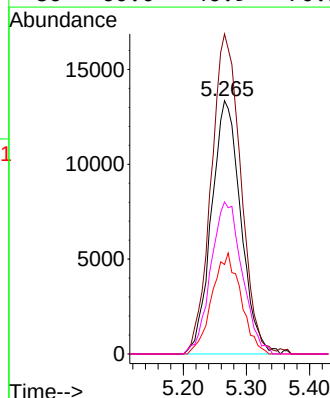
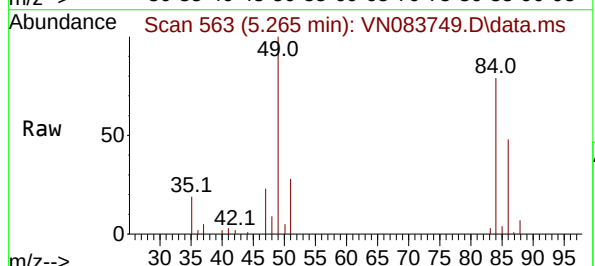
Ion Ratio Lower Upper

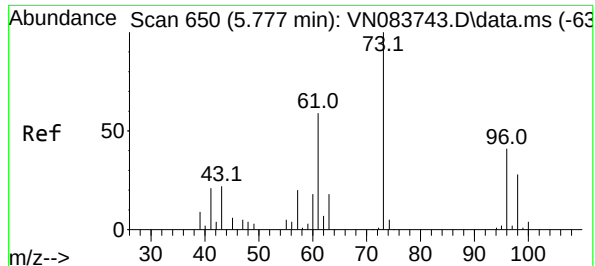
84 100

49 126.3 93.4 140.0

51 35.3 29.2 43.8

86 60.0 46.9 70.3





#21

trans-1,2-Dichloroethene

Concen: 22.099 ug/l

RT: 5.777 min Scan# 61

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 96 Resp: 39218

Ion Ratio Lower Upper

96 100

61 146.5 106.0 159.0

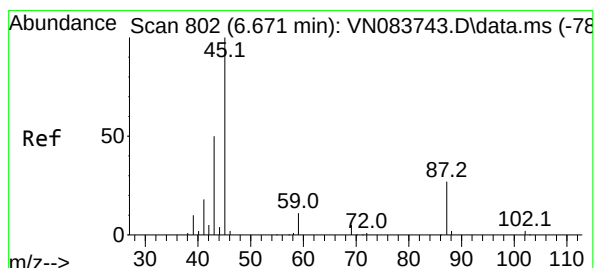
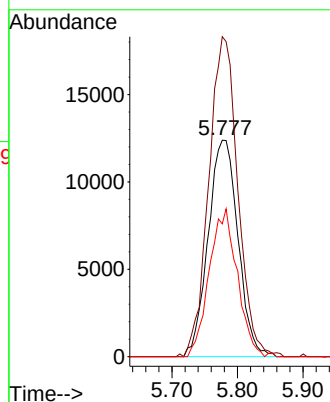
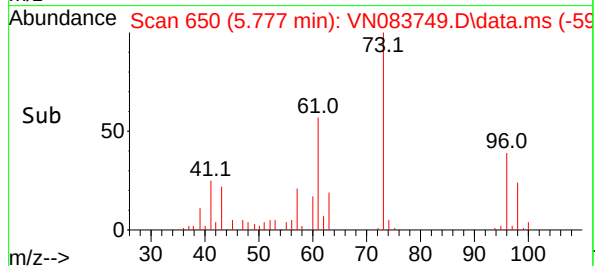
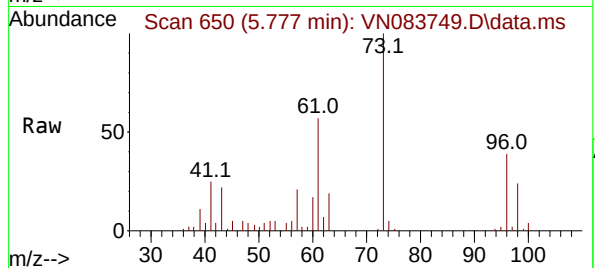
98 61.3 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#22

Diisopropyl ether

Concen: 23.239 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.006 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Tgt Ion: 45 Resp: 141158

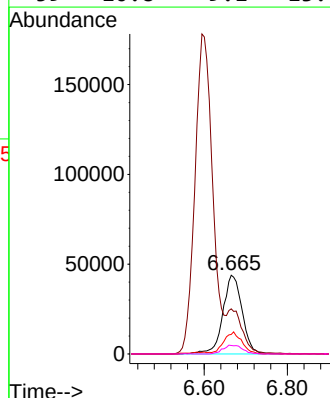
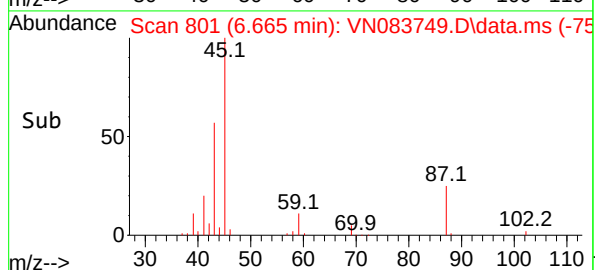
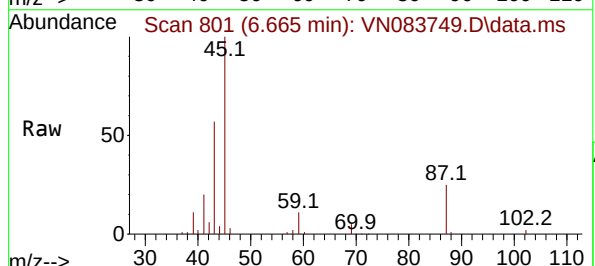
Ion Ratio Lower Upper

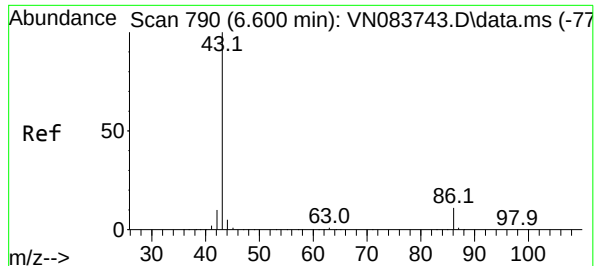
45 100

43 56.0 43.4 65.0

87 24.8 22.6 33.8

59 10.8 9.1 13.7





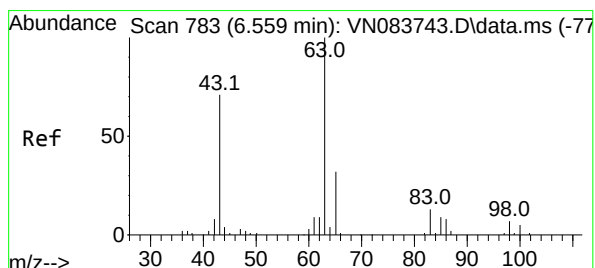
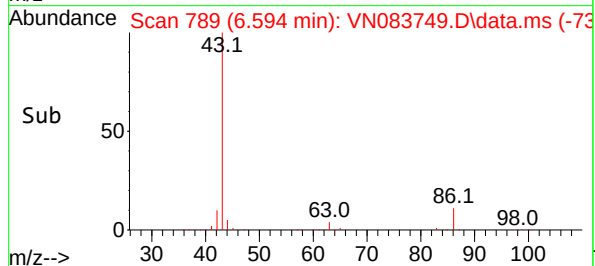
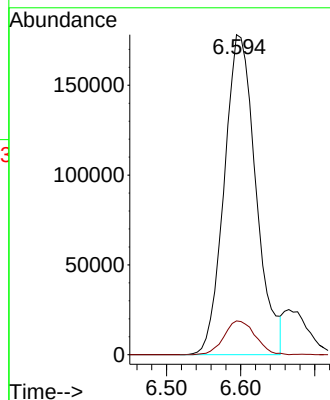
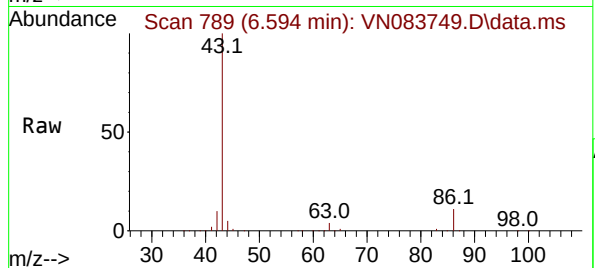
#23
Vinyl Acetate
Concen: 118.904 ug/l
RT: 6.594 min Scan# 789
Delta R.T. -0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 528904
Ion Ratio Lower Upper
43 100
86 10.6 8.7 13.1

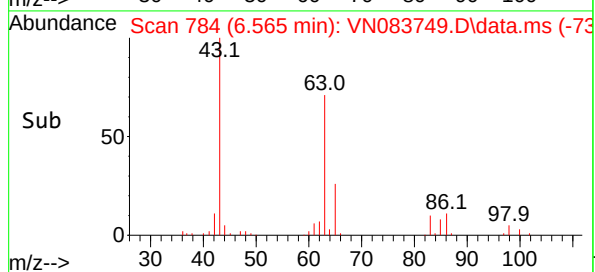
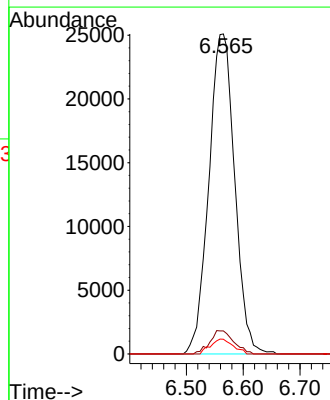
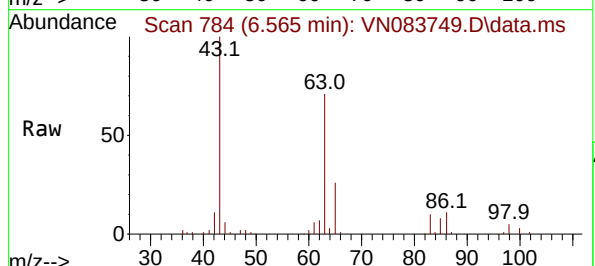
Manual Integrations
APPROVED

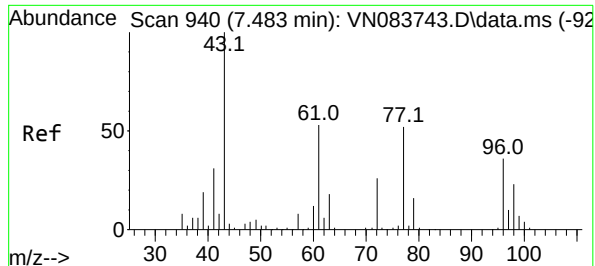
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#24
1,1-Dichloroethane
Concen: 22.664 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 63 Resp: 79312
Ion Ratio Lower Upper
63 100
98 7.2 3.5 10.4
100 4.6 2.5 7.5





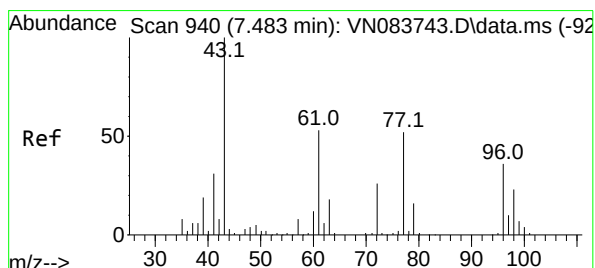
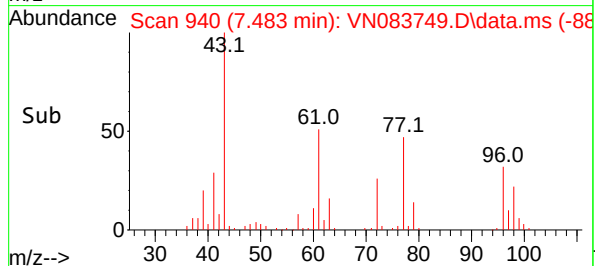
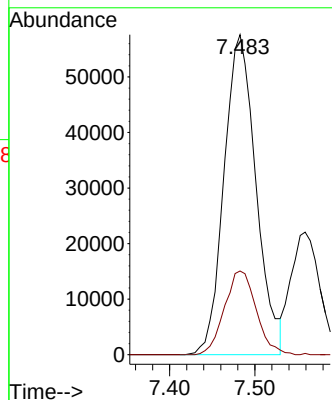
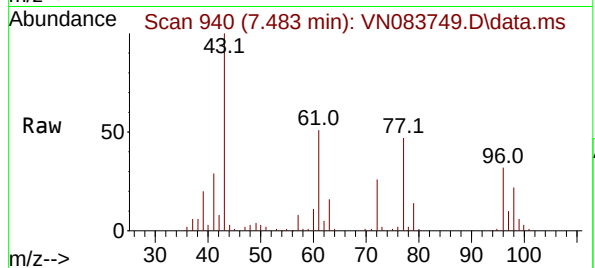
#25
2-Butanone
Concen: 123.710 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 150479
Ion Ratio Lower Upper
43 100
72 26.2 20.8 31.2

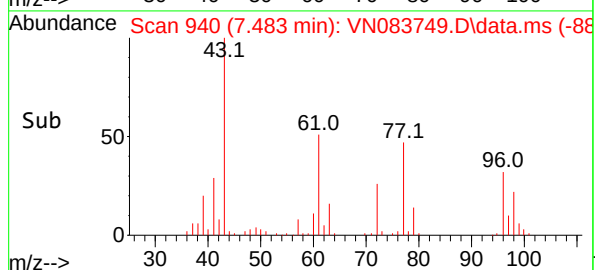
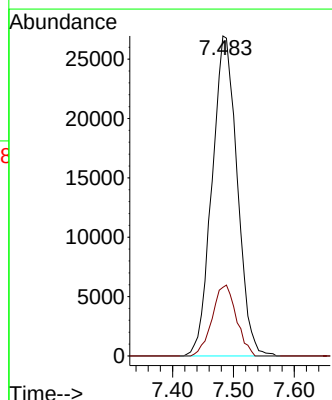
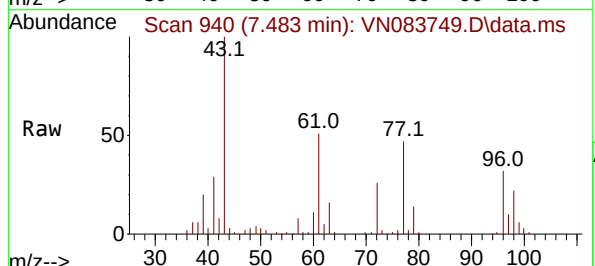
Manual Integrations
APPROVED

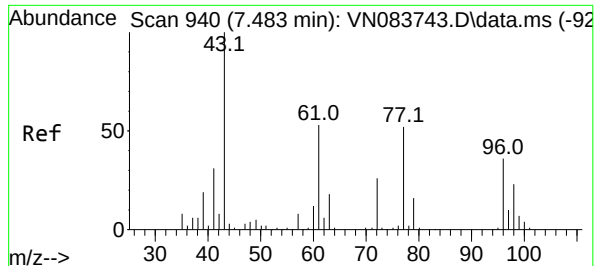
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#26
2,2-Dichloropropane
Concen: 23.990 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 77 Resp: 77312
Ion Ratio Lower Upper
77 100
97 21.3 10.2 30.4





#27

cis-1,2-Dichloroethene

Concen: 23.096 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Tgt Ion: 96 Resp: 4865

Ion Ratio Lower Upper

96 100

61 156.3 0.0 306.2

98 64.8 0.0 128.6

Instrument :

MSVOA_N

ClientSampleId :

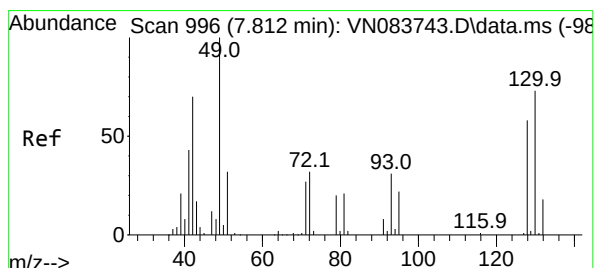
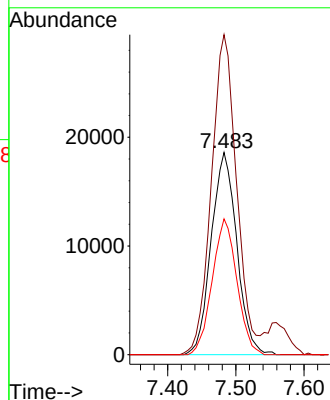
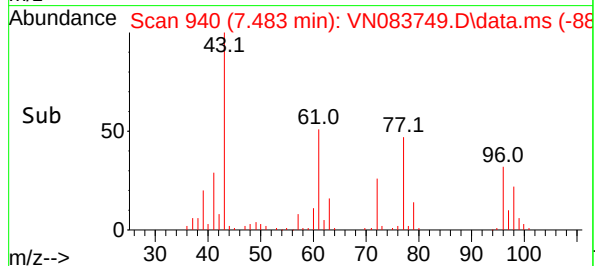
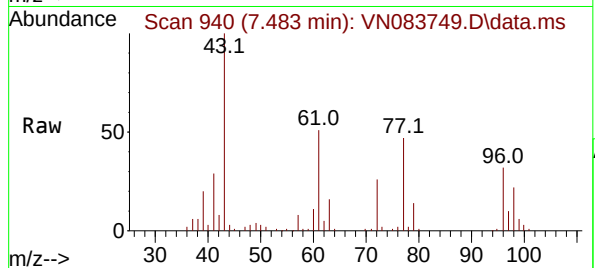
VSTDIC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#28

Bromochloromethane

Concen: 18.851 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

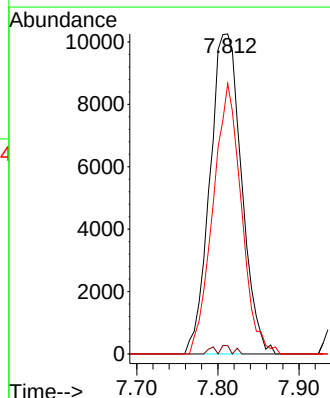
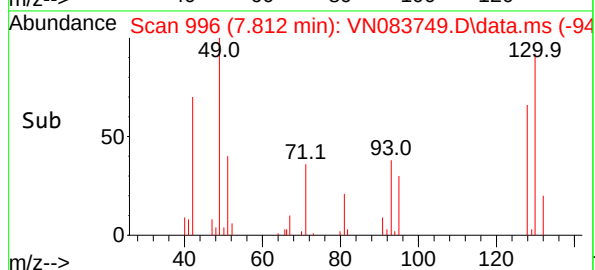
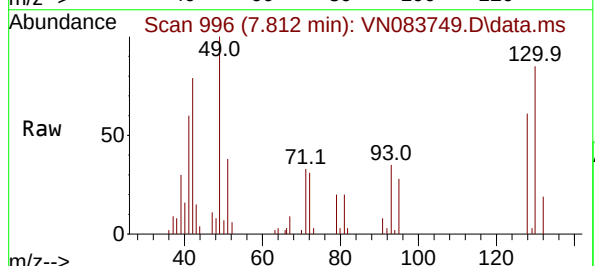
Tgt Ion: 49 Resp: 27780

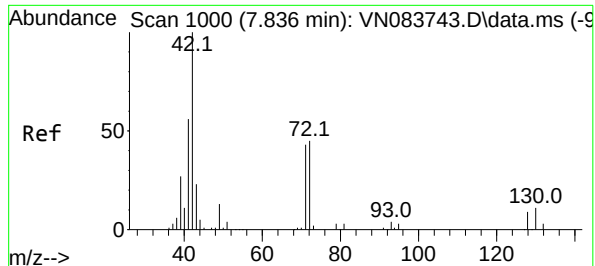
Ion Ratio Lower Upper

49 100

129 0.9 0.0 3.4

130 75.7 60.2 90.2





#29

Tetrahydrofuran

Concen: 116.606 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.006 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 42 Resp: 8386

Ion Ratio Lower Upper

42 100

72 44.3 35.9 53.9

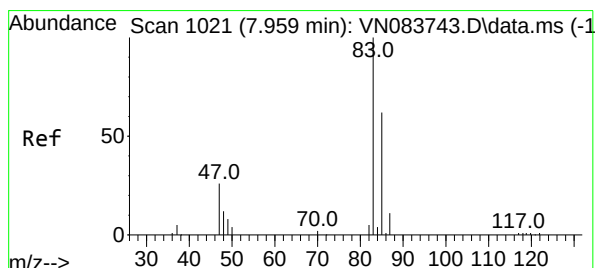
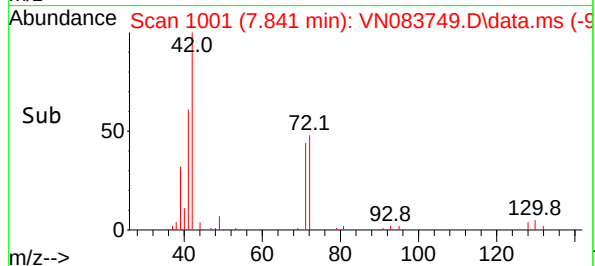
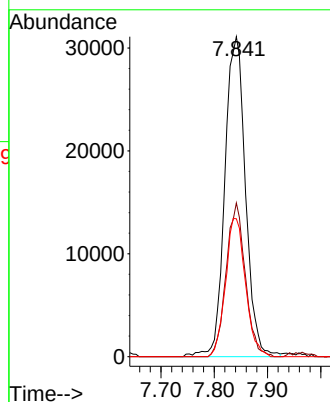
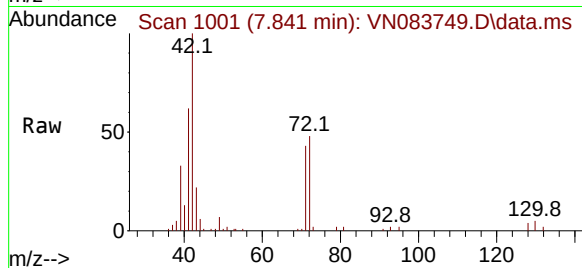
71 41.6 33.9 50.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#30

Chloroform

Concen: 23.542 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN083749.D

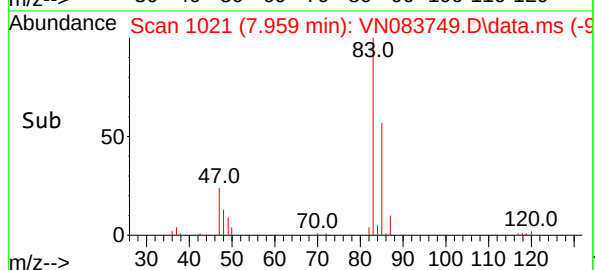
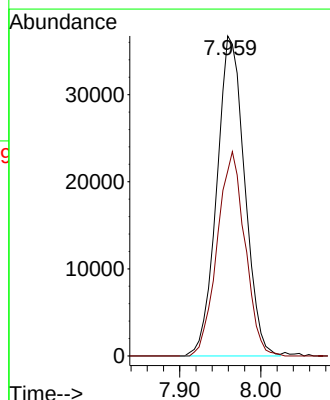
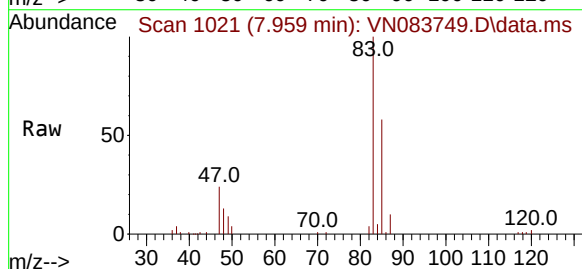
Acq: 10 Sep 2024 12:43

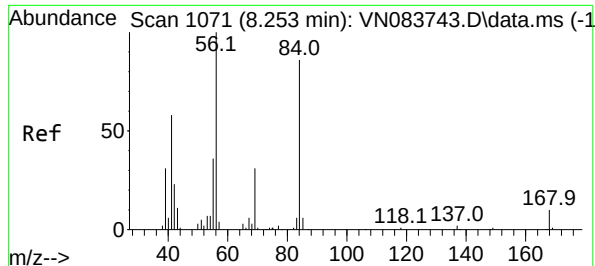
Tgt Ion: 83 Resp: 87460

Ion Ratio Lower Upper

83 100

85 57.7 52.8 79.2





#31

Cyclohexane

Concen: 22.133 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

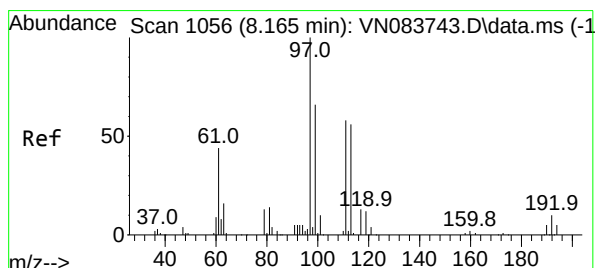
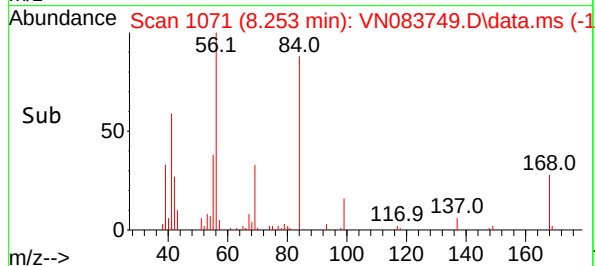
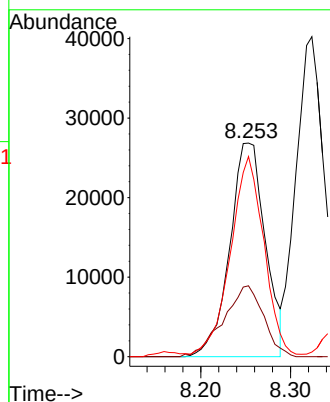
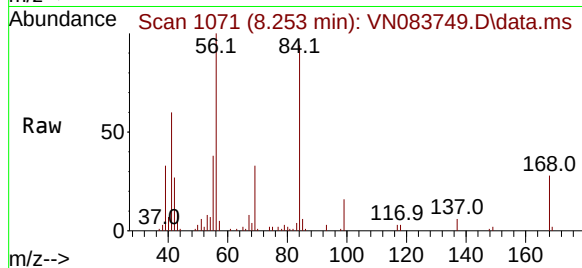
Tgt Ion:	56	Resp:	7384
Ion Ratio	Lower	Upper	
56	100		
69	33.2	26.9	40.3
84	92.3	69.2	103.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#32

1,1,1-Trichloroethane

Concen: 23.176 ug/l

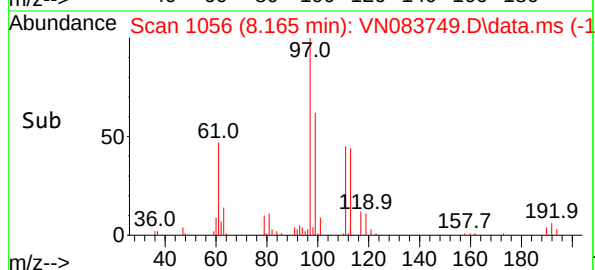
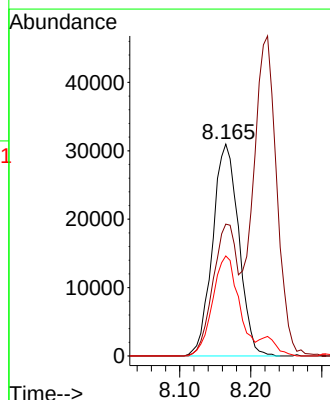
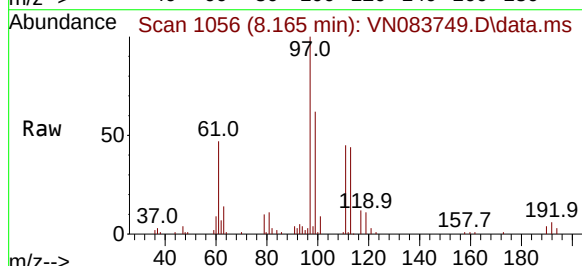
RT: 8.165 min Scan# 1056

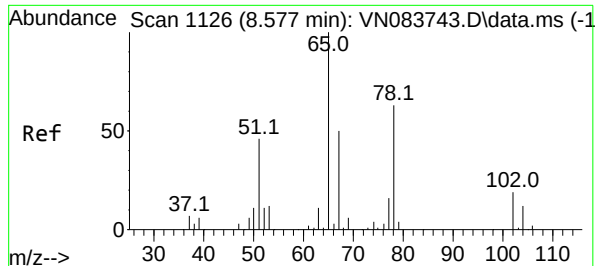
Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Tgt Ion:	97	Resp:	79170
Ion Ratio	Lower	Upper	
97	100		
99	55.9	52.3	78.5
61	47.5	38.2	57.2





#33

1,2-Dichloroethane-d4

Concen: 19.406 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 65 Resp: 44799

Ion Ratio Lower Upper

65 100

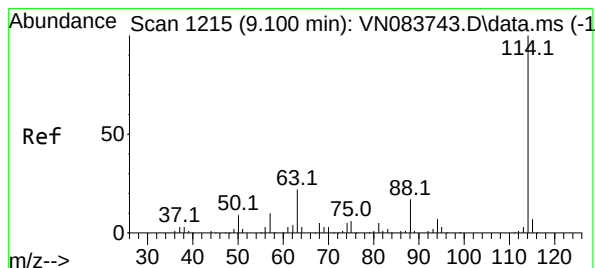
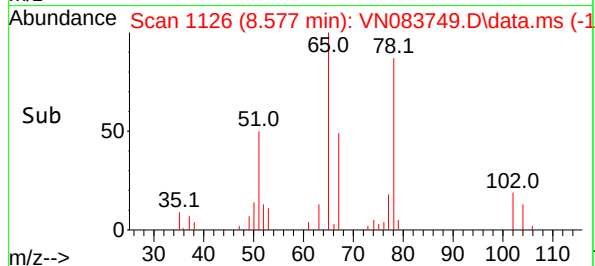
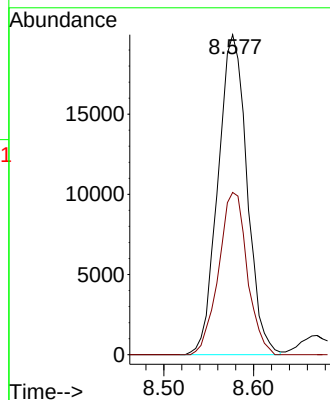
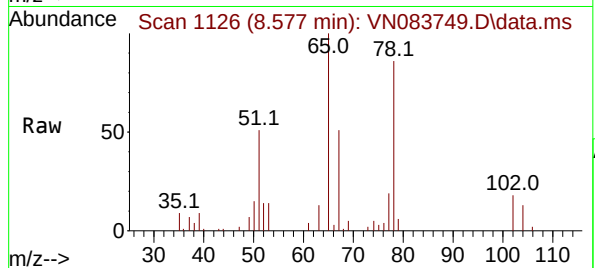
67 49.9 0.0 100.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

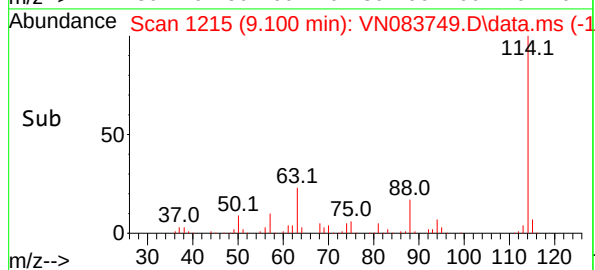
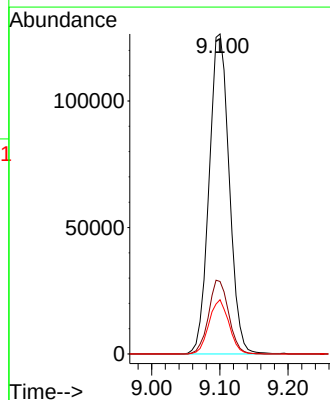
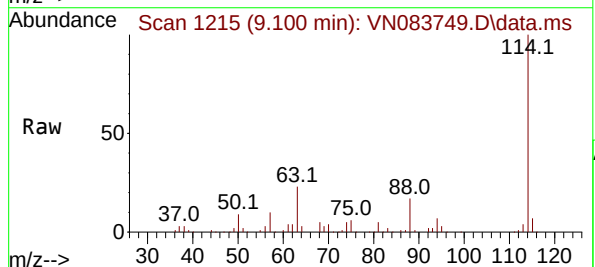
Tgt Ion:114 Resp: 259980

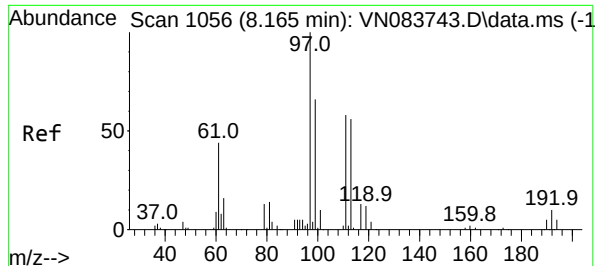
Ion Ratio Lower Upper

114 100

63 22.7 0.0 43.4

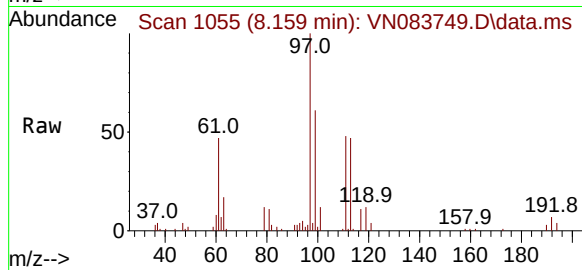
88 17.0 0.0 32.6





#35
Dibromofluoromethane
Concen: 20.034 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

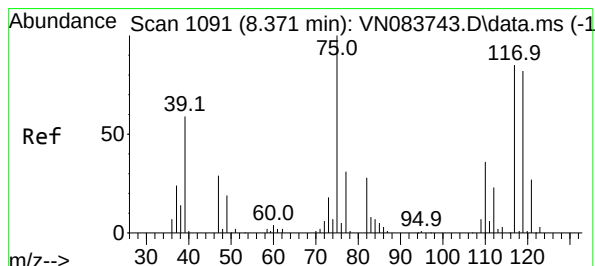
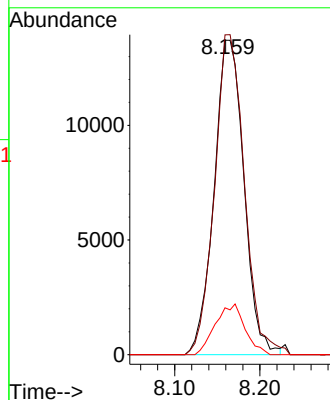
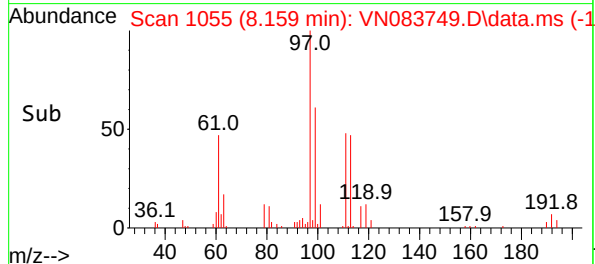
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 113 Resp: 3334
Ion Ratio Lower Upper
113 100
111 101.7 82.6 124.0
192 16.0 14.3 21.5

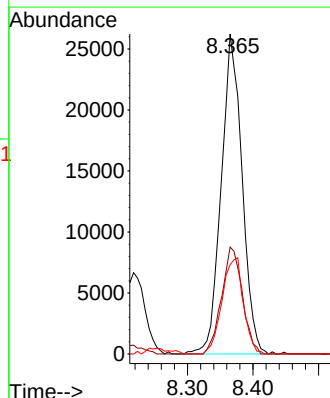
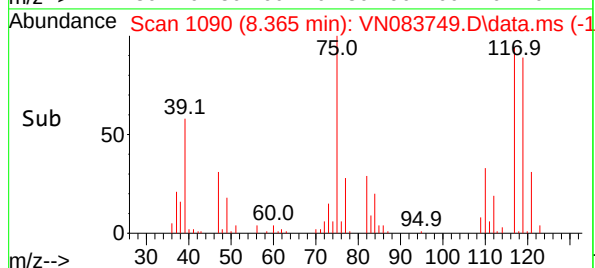
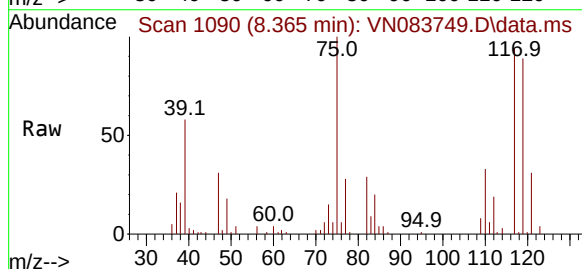
Manual Integrations
APPROVED

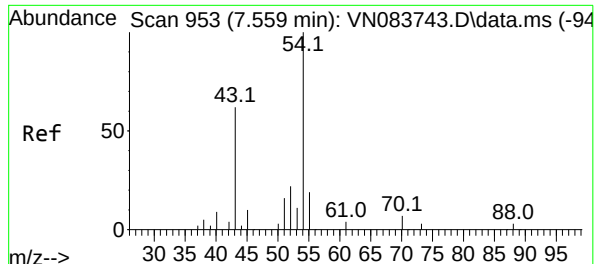
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#36
1,1-Dichloropropene
Concen: 23.081 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 75 Resp: 57819
Ion Ratio Lower Upper
75 100
110 33.2 16.7 50.1
77 30.7 25.2 37.8





#37

Ethyl Acetate

Concen: 24.088 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

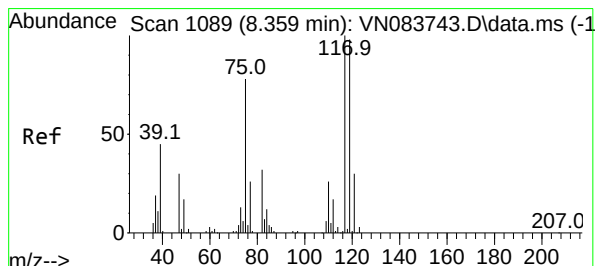
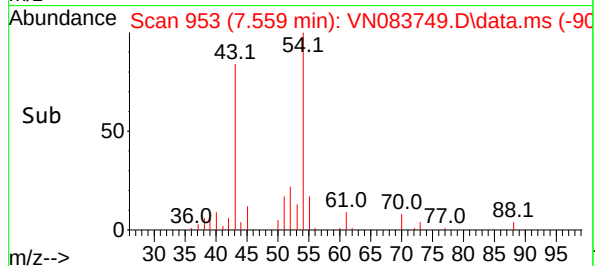
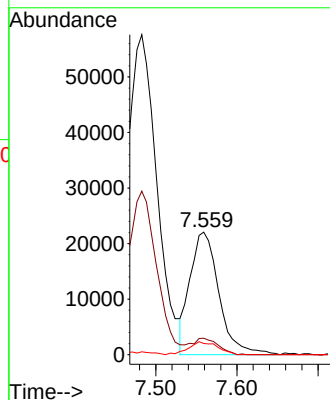
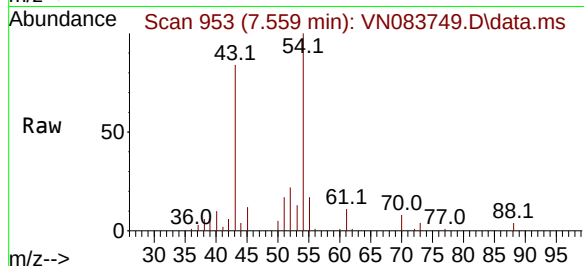
Tgt Ion:	43	Resp:	54774
Ion	Ratio	Lower	Upper
43	100		
61	12.2	11.1	16.7
70	10.4	8.8	13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#38

Carbon Tetrachloride

Concen: 23.526 ug/l

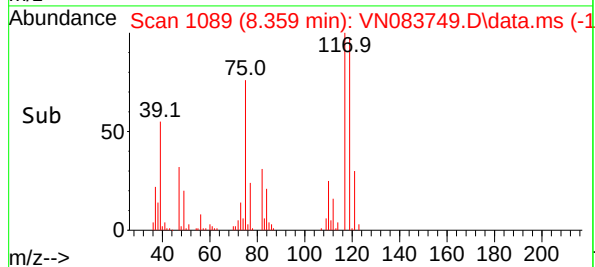
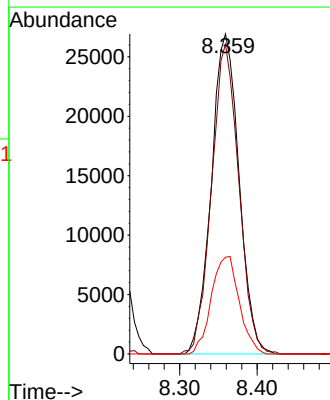
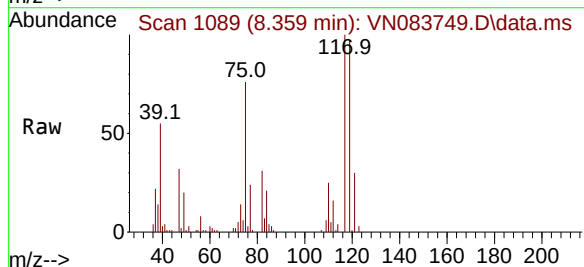
RT: 8.359 min Scan# 1089

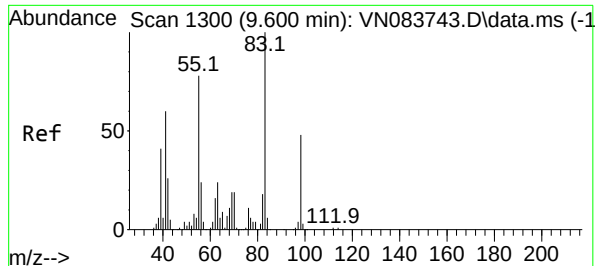
Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Tgt Ion:	117	Resp:	66860
Ion	Ratio	Lower	Upper
117	100		
119	96.8	76.1	114.1
121	30.3	24.1	36.1





#39

Methylcyclohexane

Concen: 24.123 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

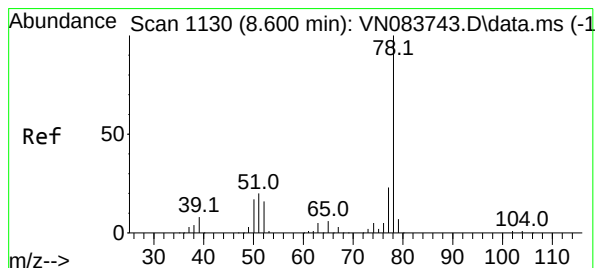
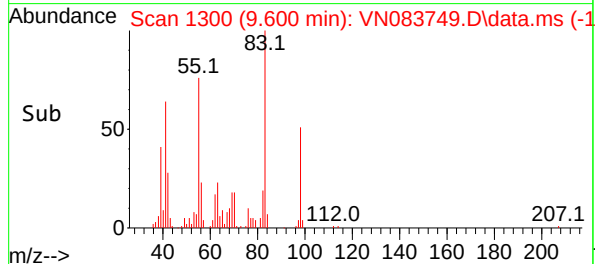
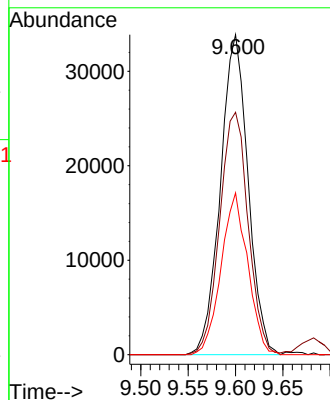
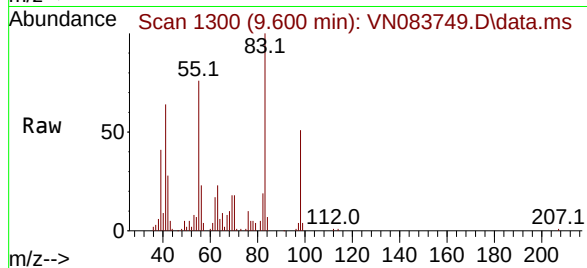
Tgt Ion:	83	Resp:	6878
Ion	Ratio	Lower	Upper
83	100		
55	75.7	62.2	93.4
98	50.6	37.6	56.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#40

Benzene

Concen: 23.997 ug/l

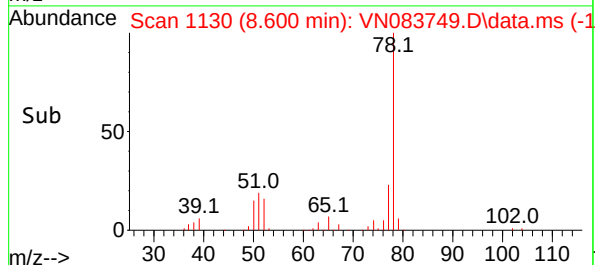
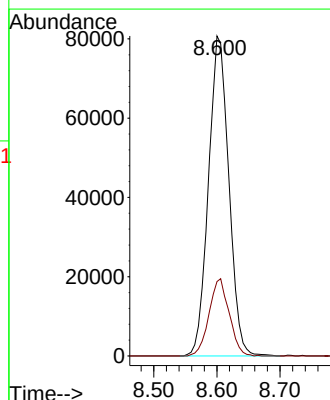
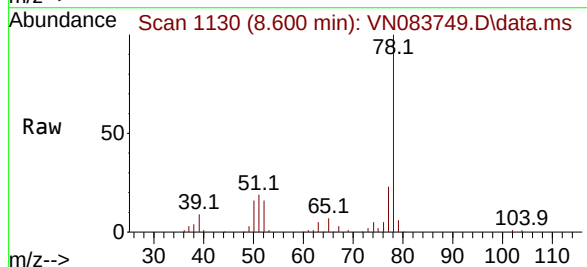
RT: 8.600 min Scan# 1130

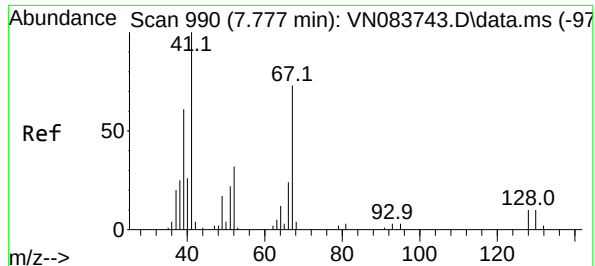
Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Tgt Ion:	78	Resp:	180938
Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.0	28.6





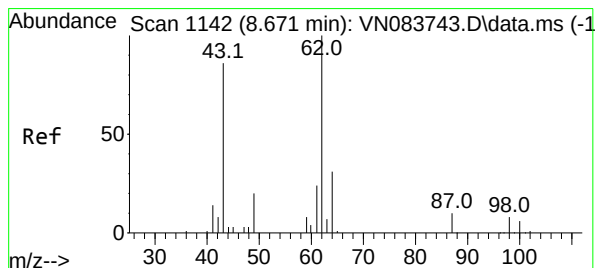
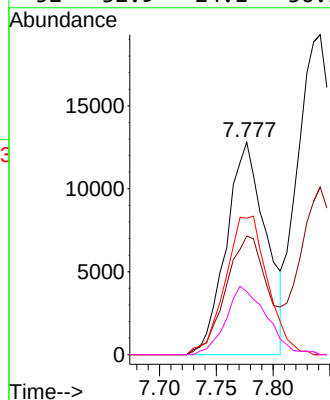
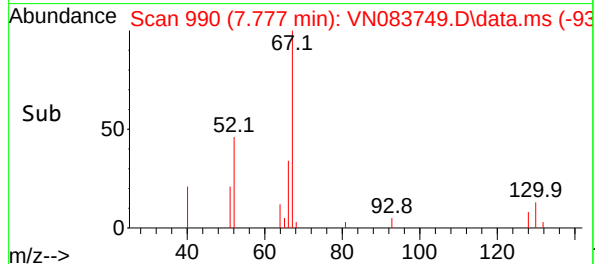
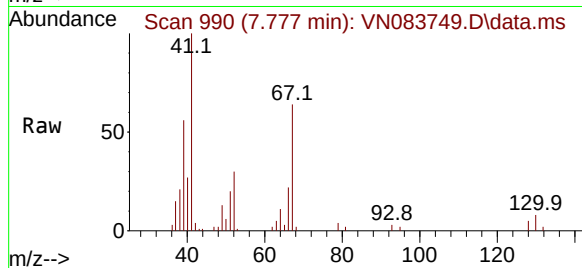
#41
Methacrylonitrile
Concen: 23.154 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:	41	Resp:	31140
Ion	Ratio	Lower	Upper
41	100		
39	58.8	45.4	68.2
67	69.1	55.9	83.9
52	32.9	24.1	36.1

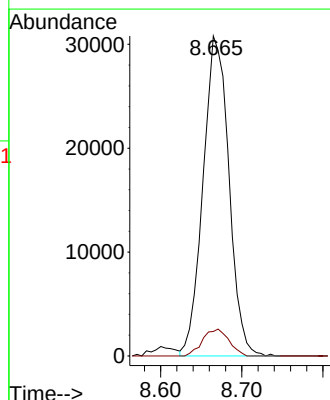
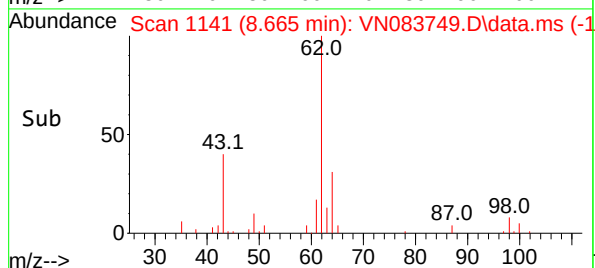
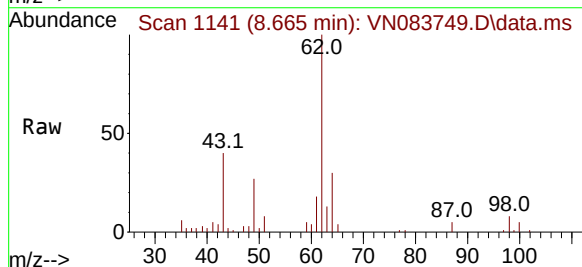
Manual Integrations
APPROVED

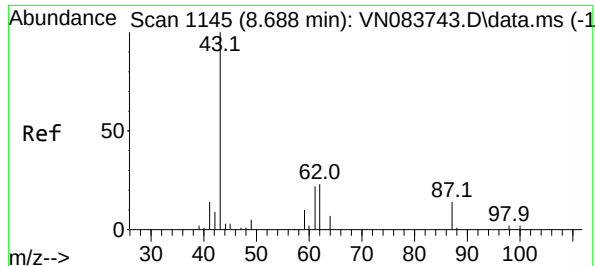
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#42
1,2-Dichloroethane
Concen: 24.216 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:	62	Resp:	68226
Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	16.6





#43

Isopropyl Acetate

Concen: 23.775 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

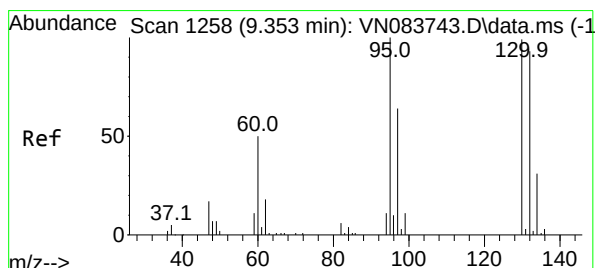
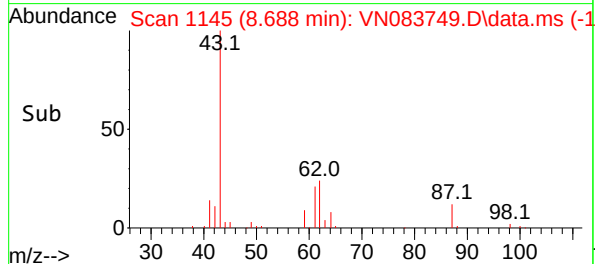
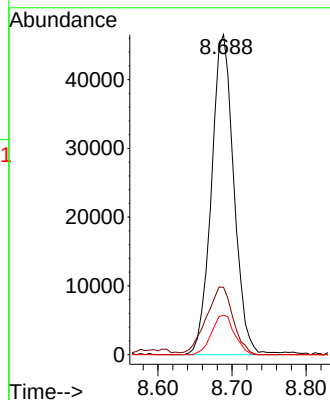
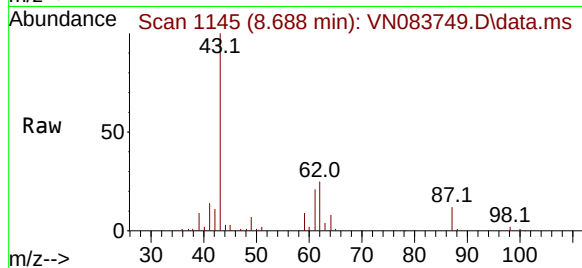
Tgt Ion: 43	Resp: 9796
Ion Ratio	Lower Upper
43 100	
61 25.3	19.4 29.0
87 12.6	9.8 14.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#44

Trichloroethene

Concen: 23.356 ug/l

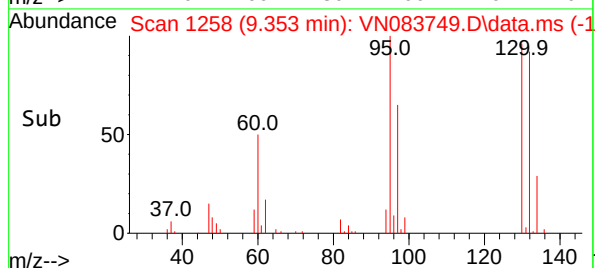
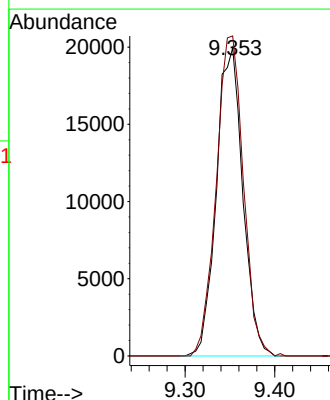
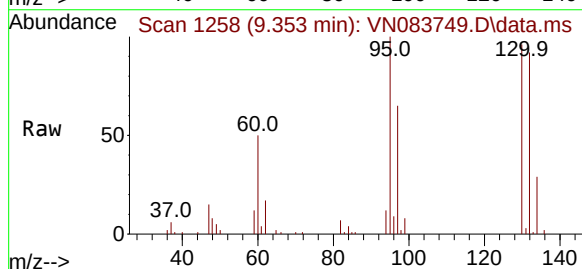
RT: 9.353 min Scan# 1258

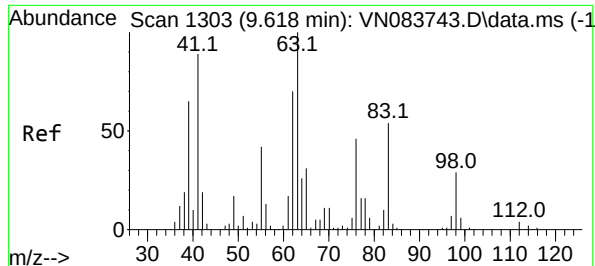
Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Tgt Ion:130	Resp: 40782
Ion Ratio	Lower Upper
130 100	
95 103.9	0.0 200.4





#45

1,2-Dichloropropane

Concen: 24.451 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 44560

Ion Ratio Lower Upper

63 100

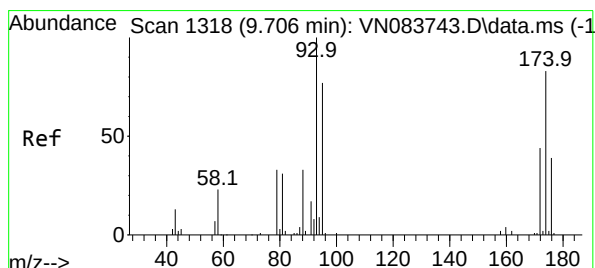
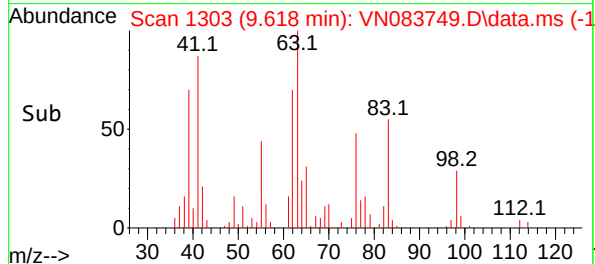
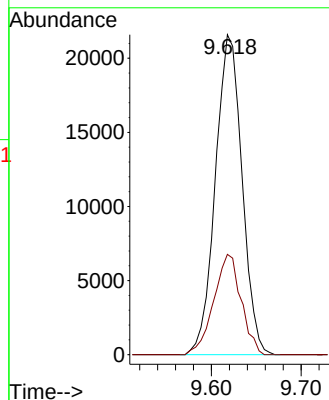
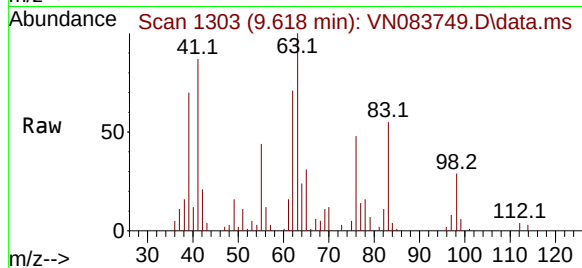
65 31.3 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#46

Dibromomethane

Concen: 24.250 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

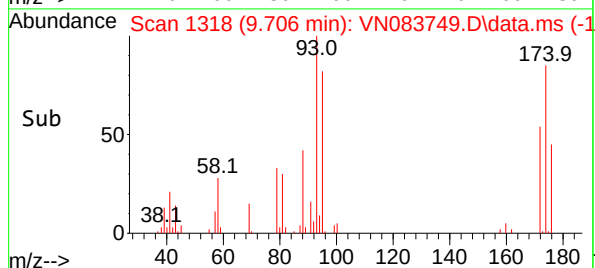
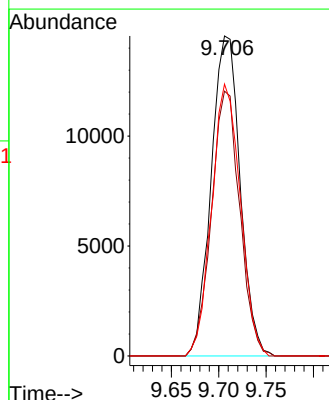
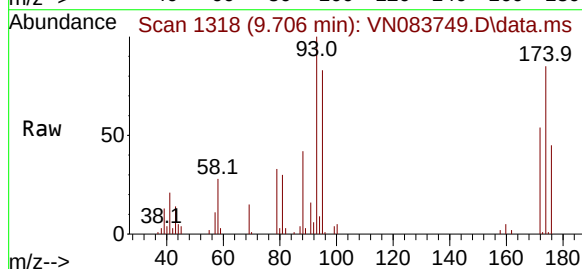
Tgt Ion: 93 Resp: 30954

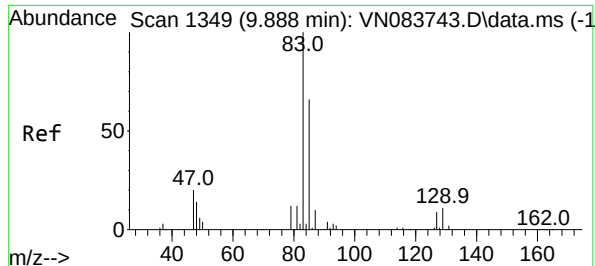
Ion Ratio Lower Upper

93 100

95 81.0 65.3 97.9

174 84.2 71.0 106.4





#47

Bromodichloromethane

Concen: 23.945 ug/l

RT: 9.882 min Scan# 1349

Delta R.T. -0.006 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

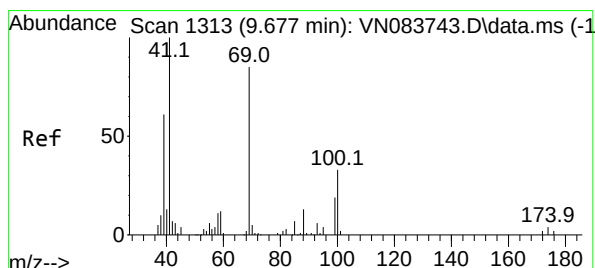
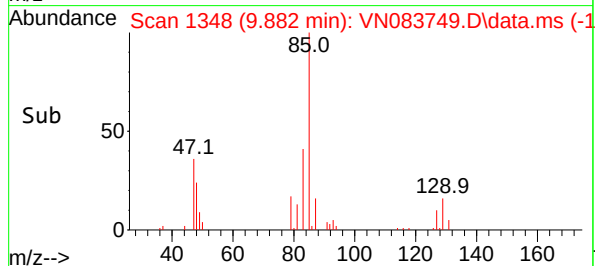
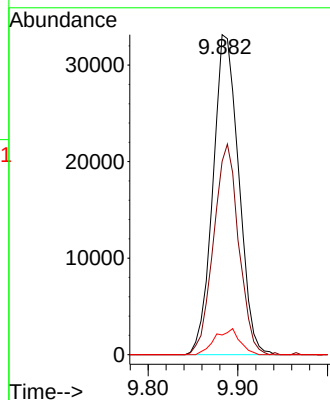
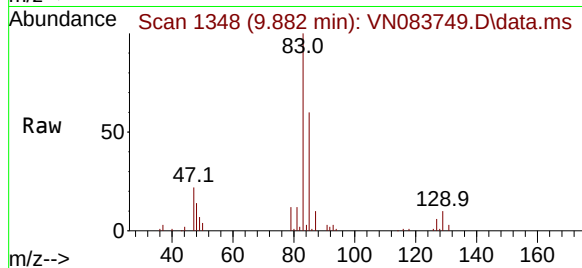
Tgt Ion:	83	Resp:	6614
Ion	Ratio	Lower	Upper
83	100		
85	60.4	51.8	77.8
127	6.2	6.6	9.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#48

Methyl methacrylate

Concen: 23.933 ug/l

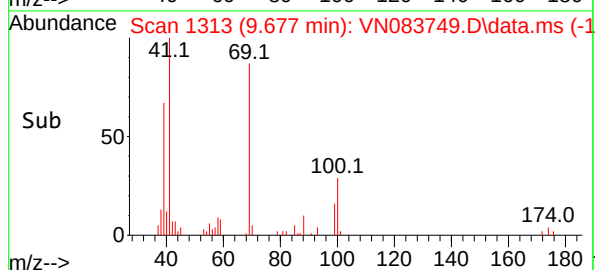
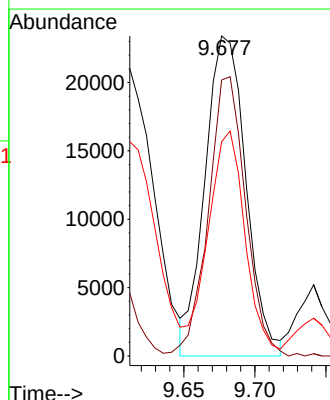
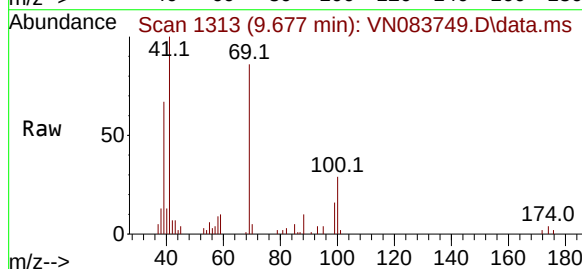
RT: 9.677 min Scan# 1313

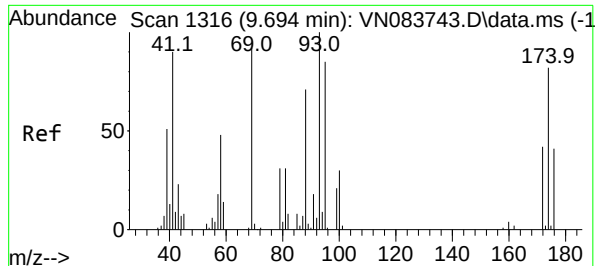
Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Tgt Ion:	41	Resp:	46788
Ion	Ratio	Lower	Upper
41	100		
69	79.8	64.3	96.5
39	64.6	48.9	73.3





#49

1,4-Dioxane

Concen: 465.914 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 88 Resp: 14984

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

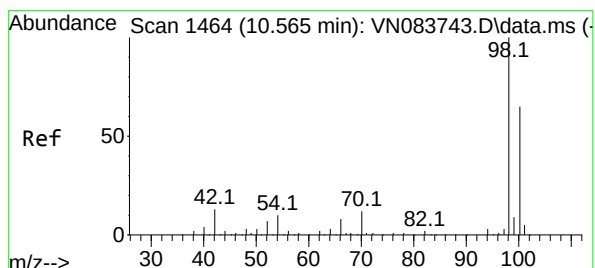
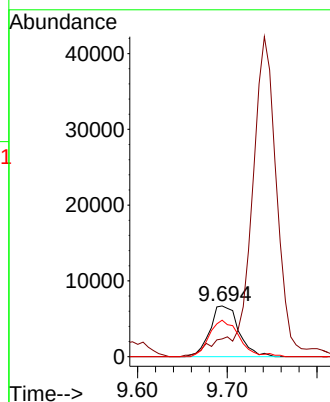
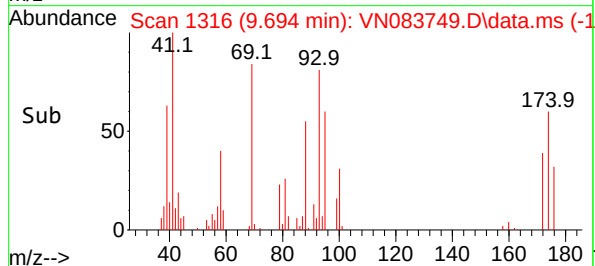
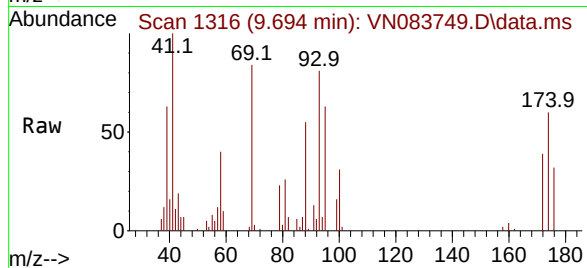
58 74.8 57.1 85.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#50

Toluene-d8

Concen: 20.418 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN083749.D

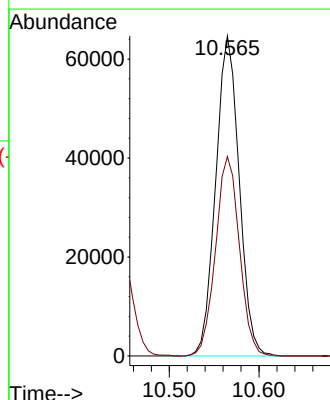
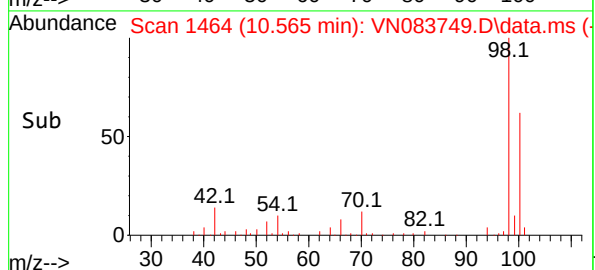
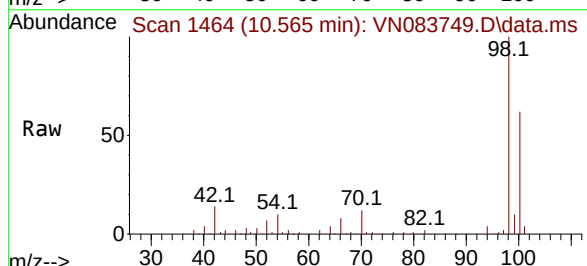
Acq: 10 Sep 2024 12:43

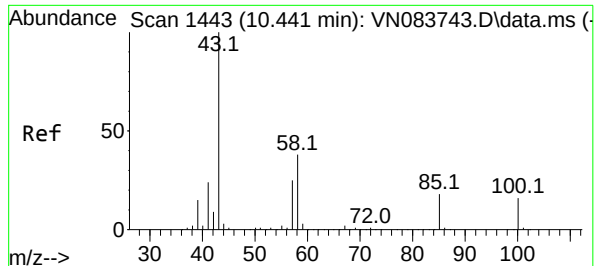
Tgt Ion: 98 Resp: 117482

Ion Ratio Lower Upper

98 100

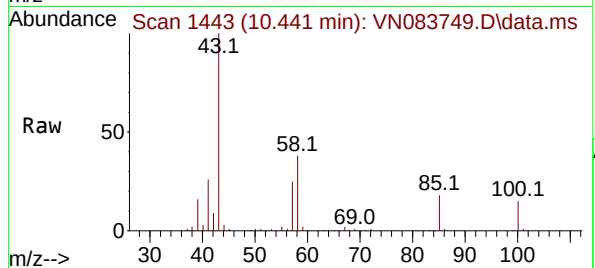
100 63.4 52.0 78.0





#51
4-Methyl-2-Pentanone
Concen: 120.721 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

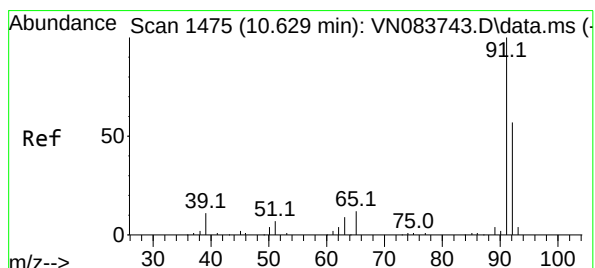
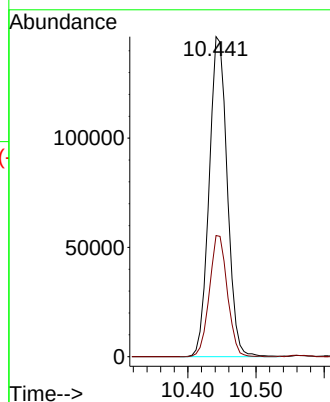
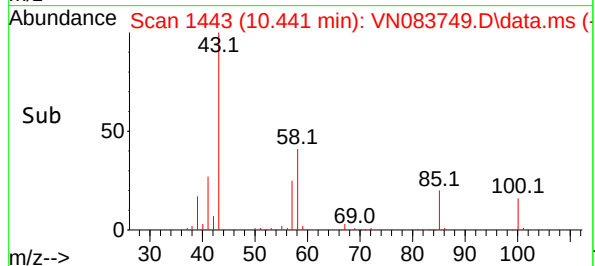
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 43 Resp: 270783
Ion Ratio Lower Upper
43 100
58 37.6 31.6 47.4

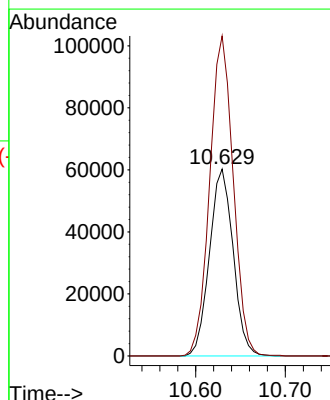
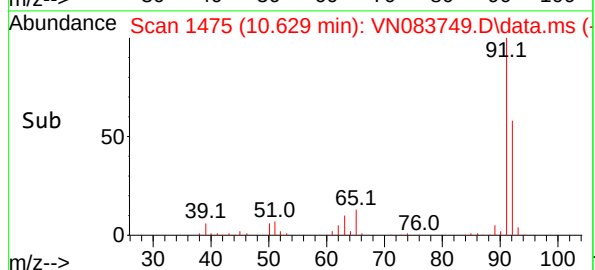
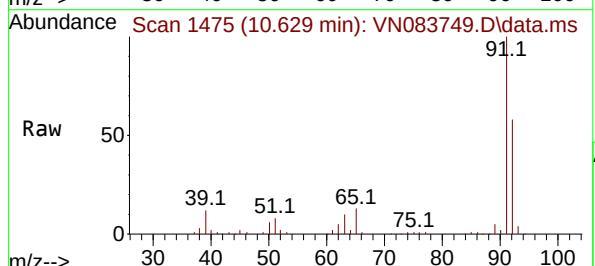
Manual Integrations
APPROVED

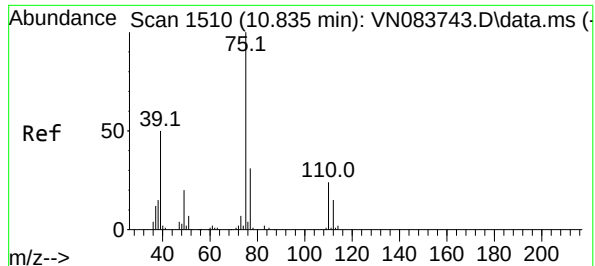
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#52
Toluene
Concen: 23.911 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

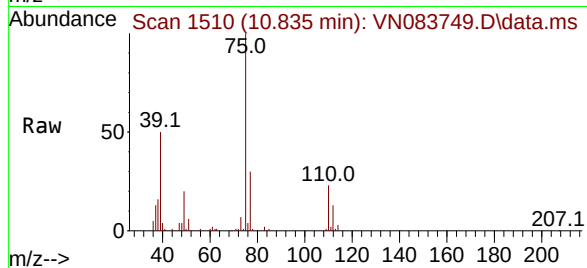
Tgt Ion: 92 Resp: 110278
Ion Ratio Lower Upper
92 100
91 170.5 134.7 202.1





#53
t-1,3-Dichloropropene
Concen: 23.266 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

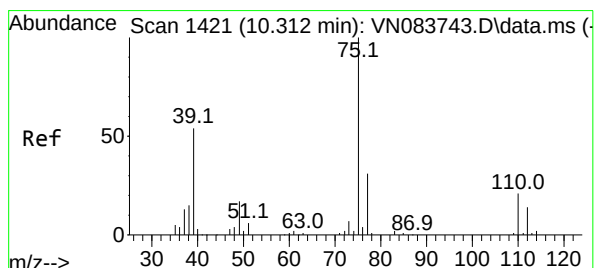
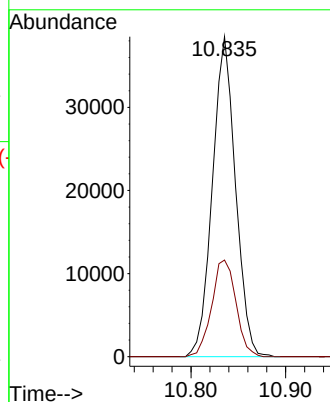
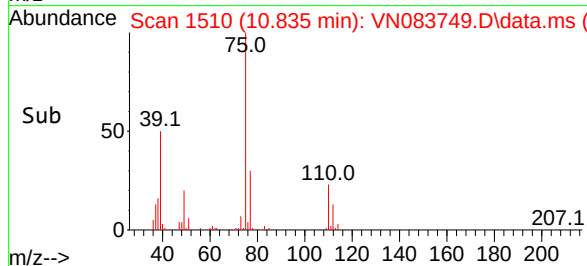
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 75 Resp: 65148
Ion Ratio Lower Upper
75 100
77 30.2 25.8 38.6

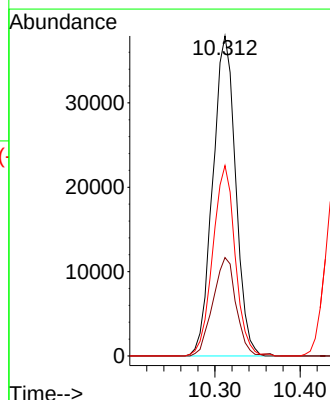
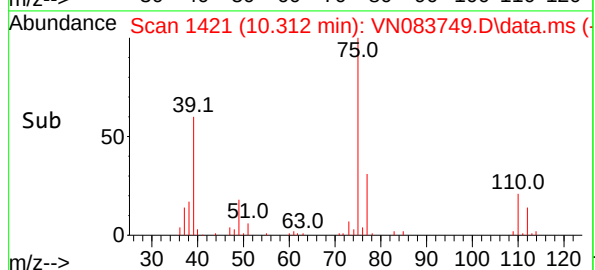
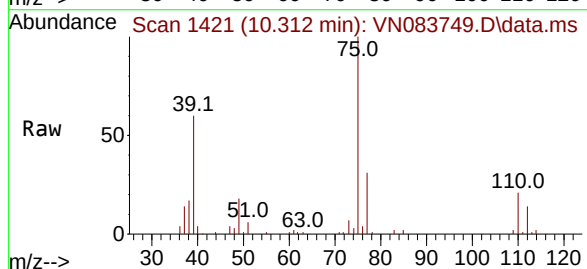
Manual Integrations
APPROVED

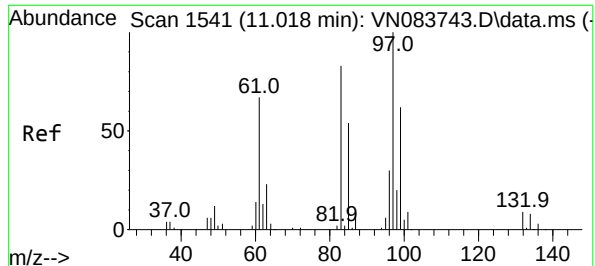
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#54
cis-1,3-Dichloropropene
Concen: 24.035 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 75 Resp: 70696
Ion Ratio Lower Upper
75 100
77 30.8 25.0 37.6
39 59.5 42.6 64.0





#55

1,1,2-Trichloroethane

Concen: 23.375 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 97 Resp: 4024

Ion Ratio Lower Upper

97 100

83 81.8 67.5 101.3

85 57.8 44.2 66.2

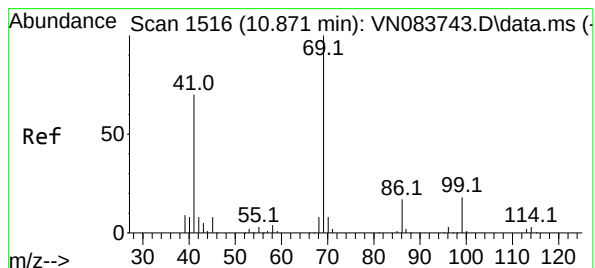
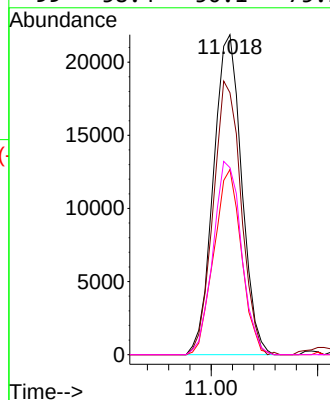
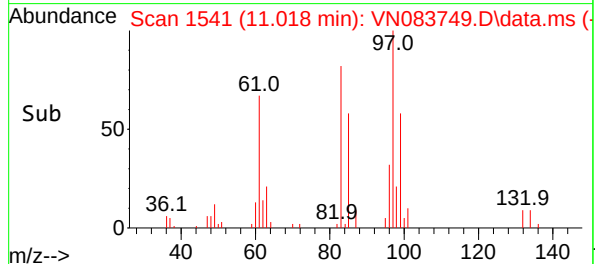
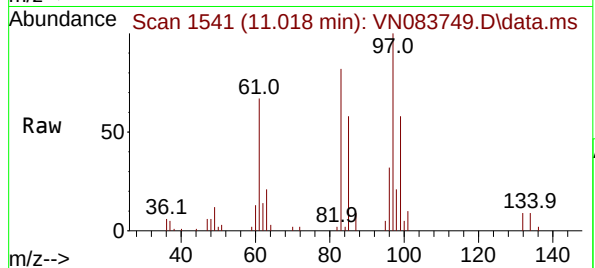
99 58.4 50.1 75.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#56

Ethyl methacrylate

Concen: 24.569 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

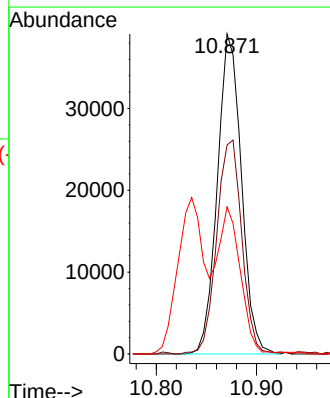
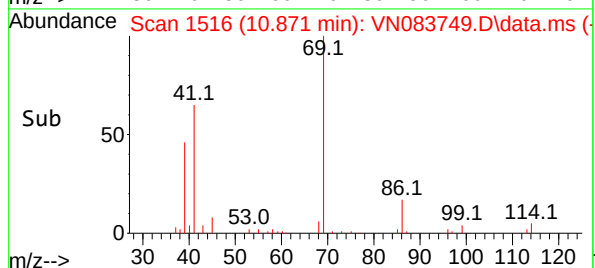
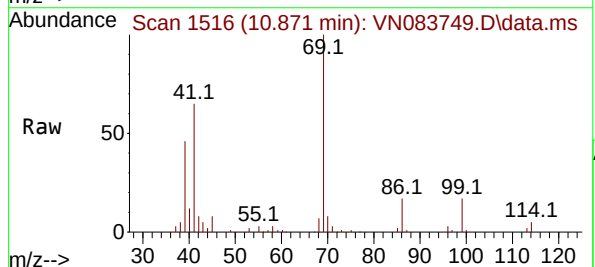
Tgt Ion: 69 Resp: 65086

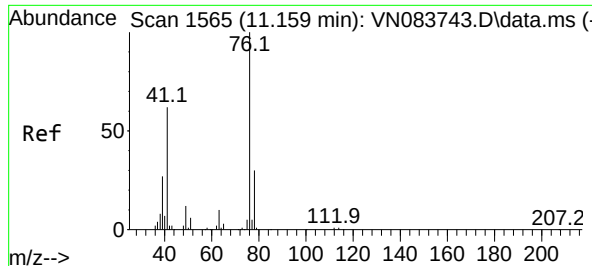
Ion Ratio Lower Upper

69 100

41 69.9 53.9 80.9

39 44.6 32.6 48.8





#57

1,3-Dichloropropane

Concen: 23.964 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 70910

Ion Ratio Lower Upper

76 100

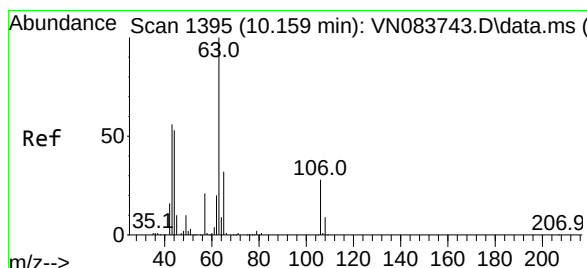
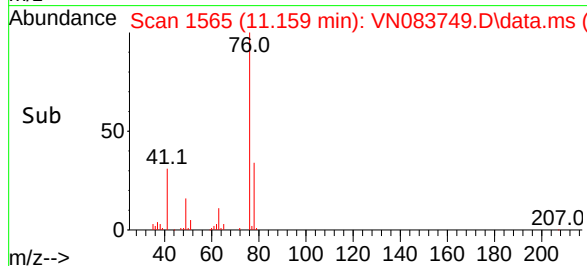
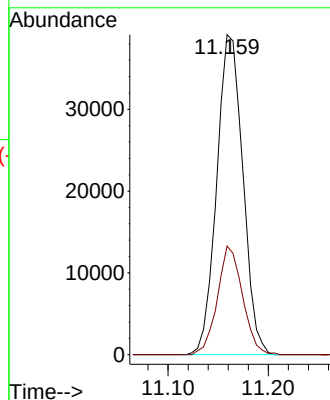
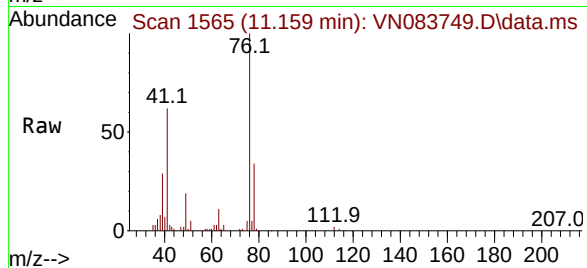
78 32.6 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#58

2-Chloroethyl Vinyl ether

Concen: 102.024 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN083749.D

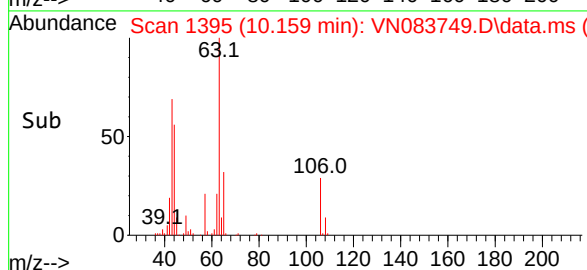
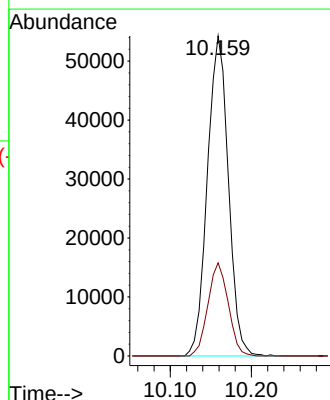
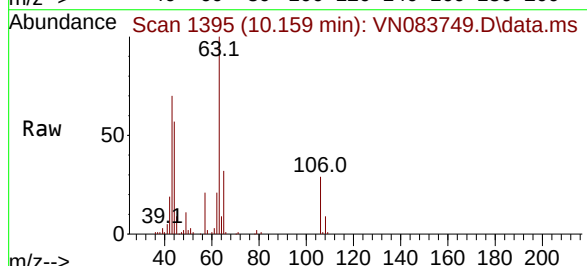
Acq: 10 Sep 2024 12:43

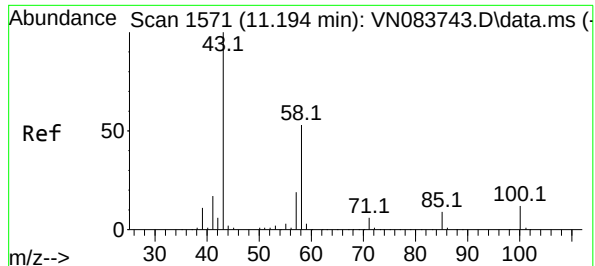
Tgt Ion: 63 Resp: 97384

Ion Ratio Lower Upper

63 100

106 28.1 23.3 34.9





#59

2-Hexanone

Concen: 126.795 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 21038

Ion Ratio Lower Upper

43 100

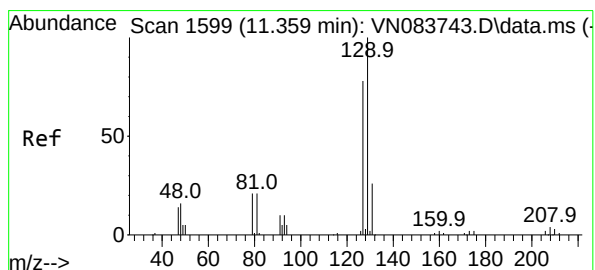
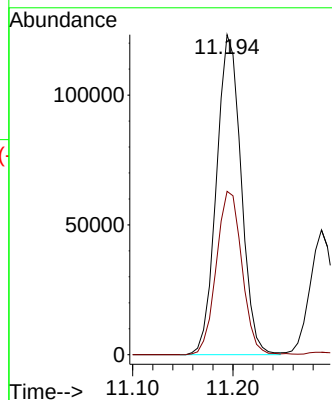
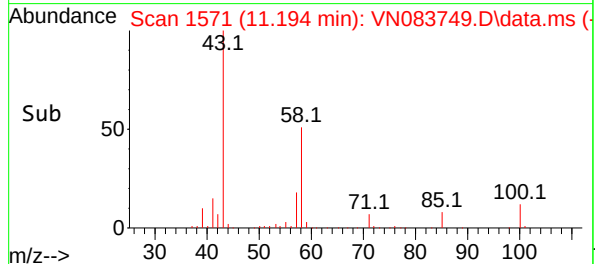
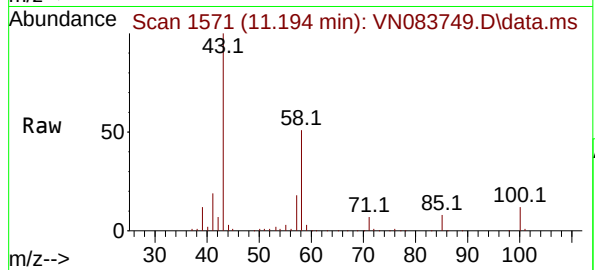
58 53.1 27.2 81.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#60

Dibromochloromethane

Concen: 23.725 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN083749.D

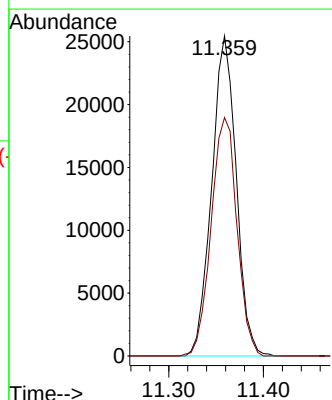
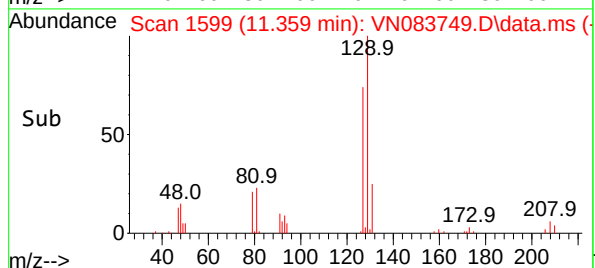
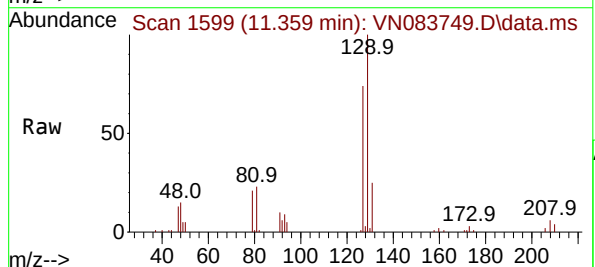
Acq: 10 Sep 2024 12:43

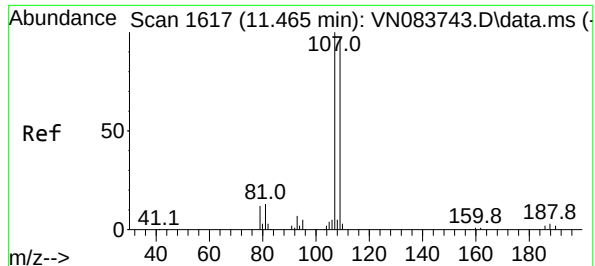
Tgt Ion:129 Resp: 45716

Ion Ratio Lower Upper

129 100

127 78.4 39.0 116.9





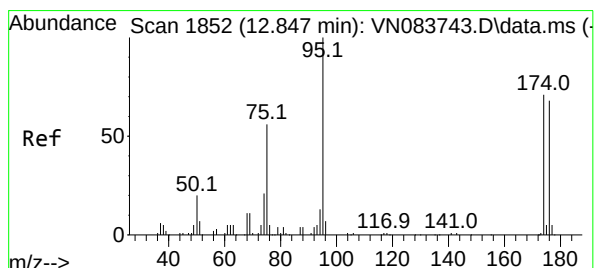
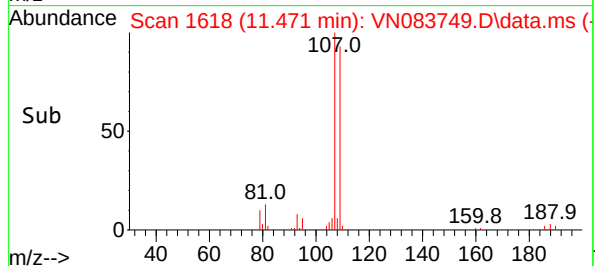
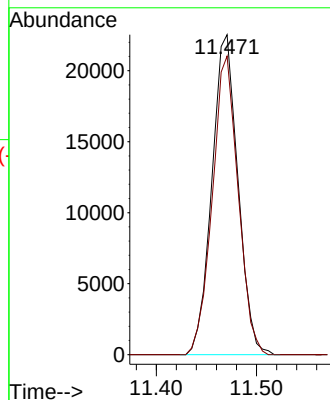
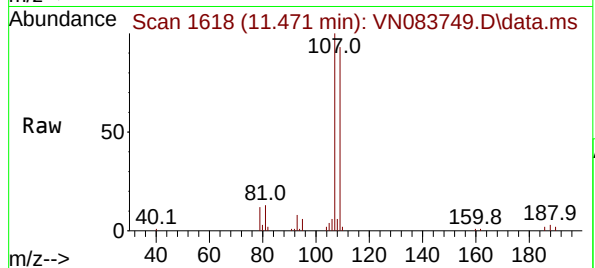
#61
1,2-Dibromoethane
Concen: 23.669 ug/l
RT: 11.471 min Scan# 1617
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion:107 Resp: 4064
Ion Ratio Lower Upper
107 100
109 92.5 75.6 113.4

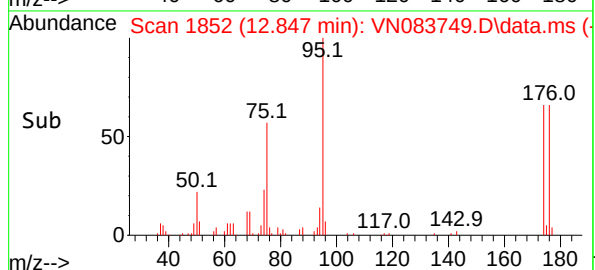
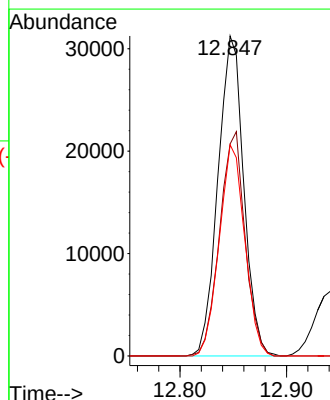
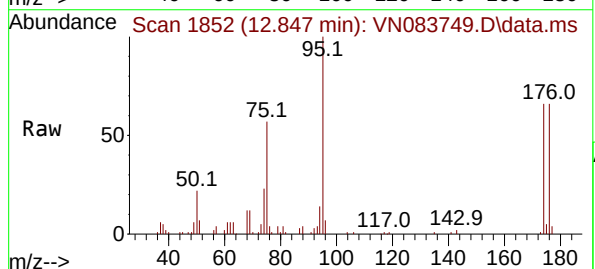
Manual Integrations
APPROVED

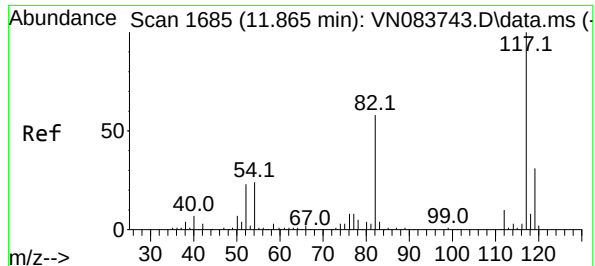
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#62
4-Bromofluorobenzene
Concen: 22.046 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

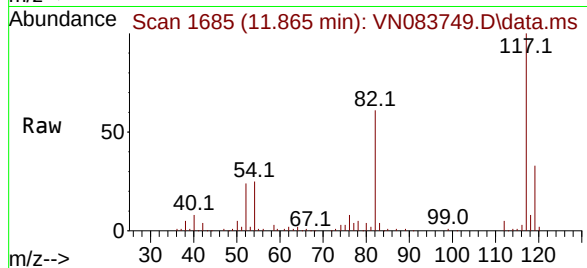
Tgt Ion: 95 Resp: 52334
Ion Ratio Lower Upper
95 100
174 69.6 0.0 139.8
176 65.7 0.0 131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

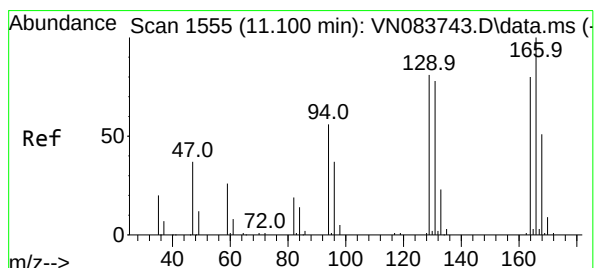
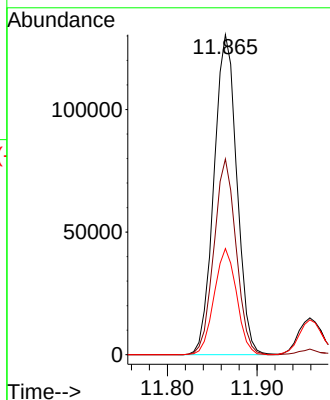
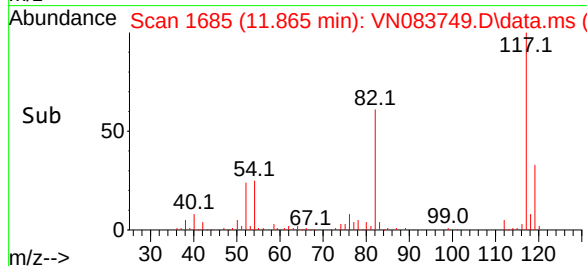
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:117 Resp: 23098
Ion Ratio Lower Upper
117 100
82 61.1 47.4 71.0
119 33.2 26.3 39.5

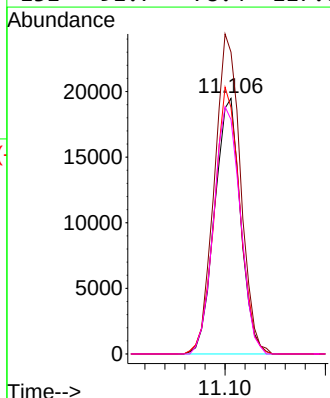
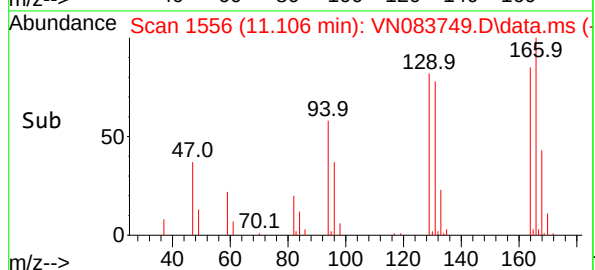
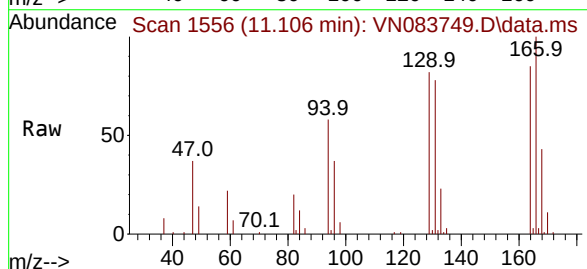
Manual Integrations
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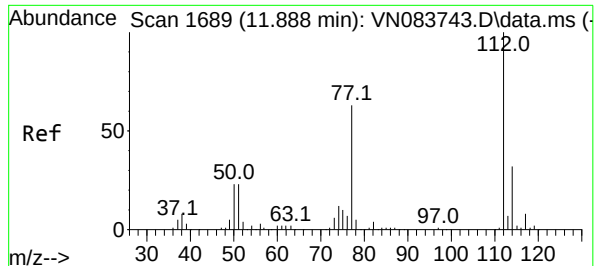
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#64
Tetrachloroethene
Concen: 22.688 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:164 Resp: 34851
Ion Ratio Lower Upper
164 100
166 118.1 103.7 155.5
129 96.4 79.9 119.9
131 91.7 78.4 117.6





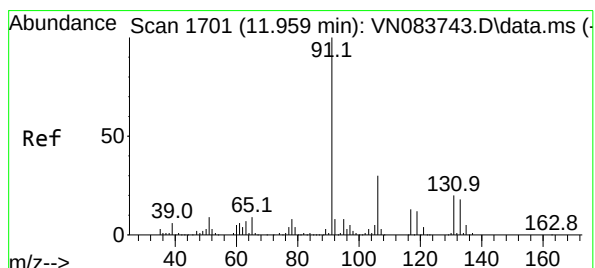
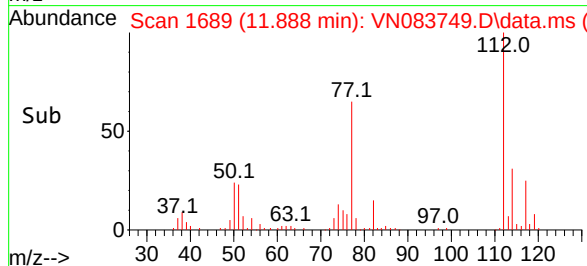
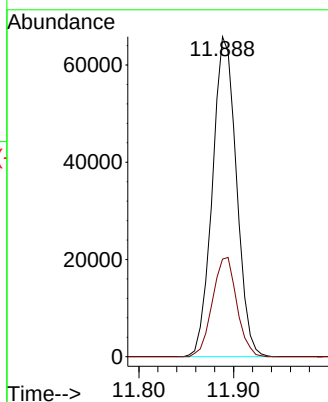
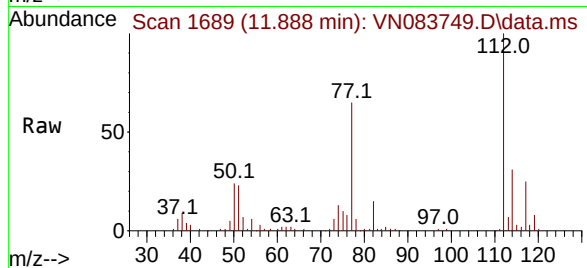
#65
Chlorobenzene
Concen: 22.620 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion:112 Resp: 11612
Ion Ratio Lower Upper
112 100
114 30.5 25.7 38.5

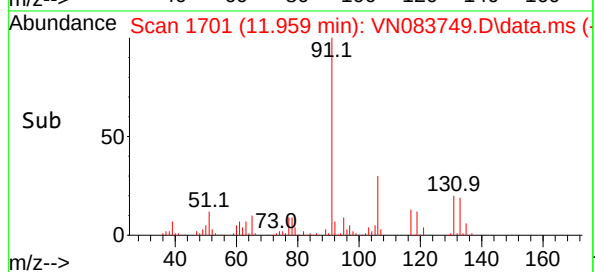
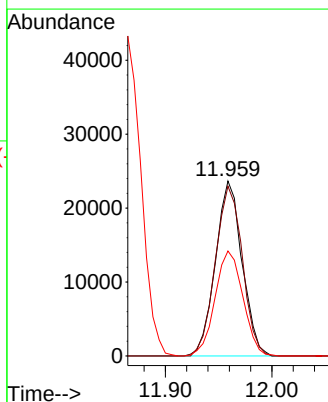
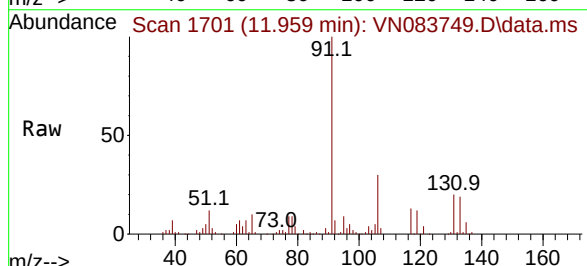
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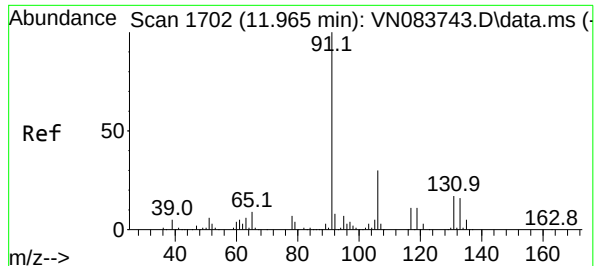
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 23.124 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:131 Resp: 41153
Ion Ratio Lower Upper
131 100
133 98.4 47.5 142.6
119 62.7 31.6 94.8





#67

Ethyl Benzene

Concen: 23.106 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 21071

Ion Ratio Lower Upper

91 100

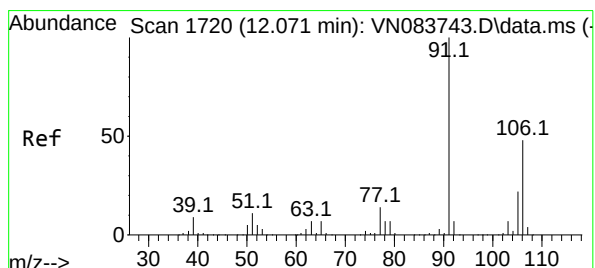
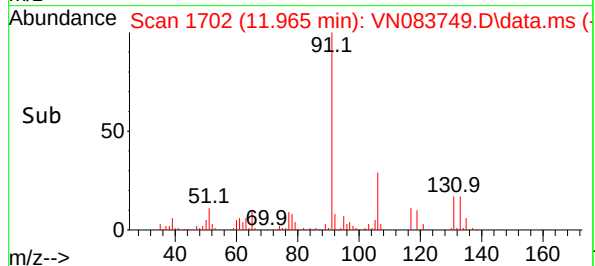
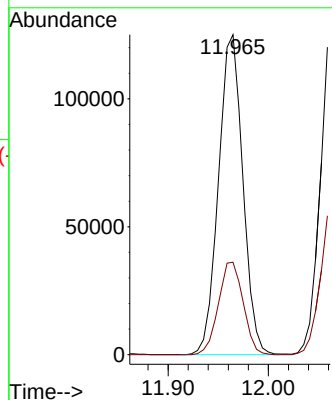
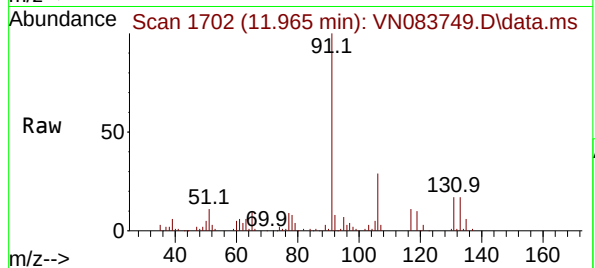
106 28.9 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#68

m/p-Xylenes

Concen: 46.734 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN083749.D

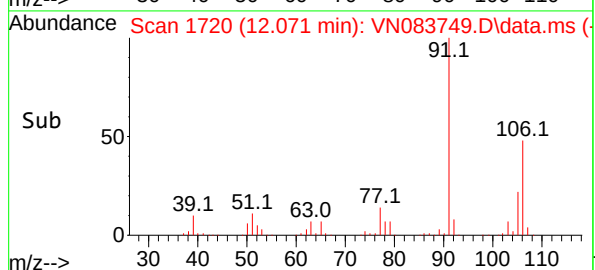
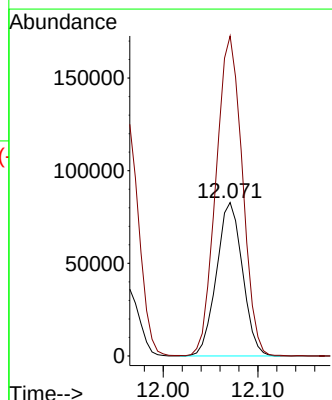
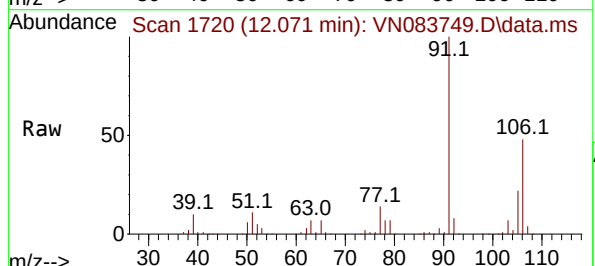
Acq: 10 Sep 2024 12:43

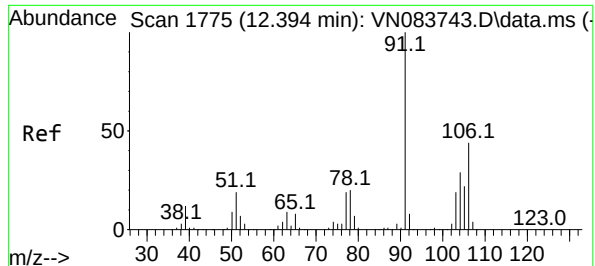
Tgt Ion:106 Resp: 158230

Ion Ratio Lower Upper

106 100

91 211.5 169.2 253.8





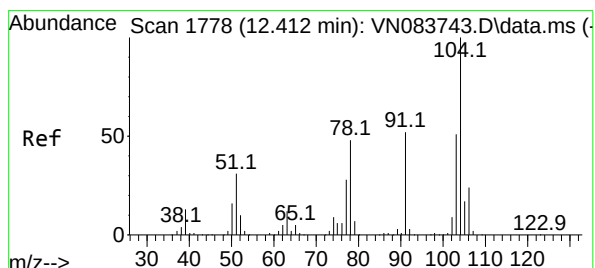
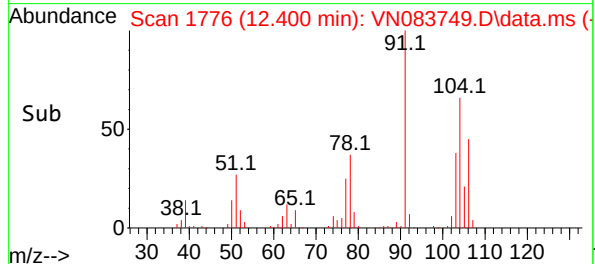
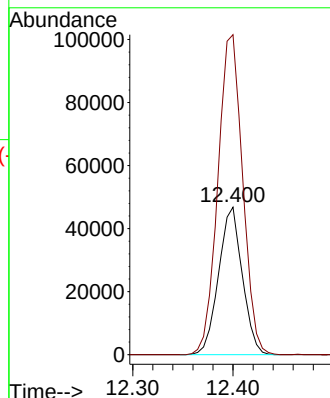
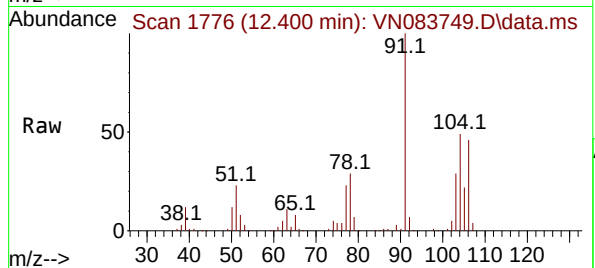
#69
o-Xylene
Concen: 23.438 ug/l
RT: 12.400 min Scan# 1775
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 7682
Ion Ratio Lower Upper
106 100
91 226.6 112.9 338.6

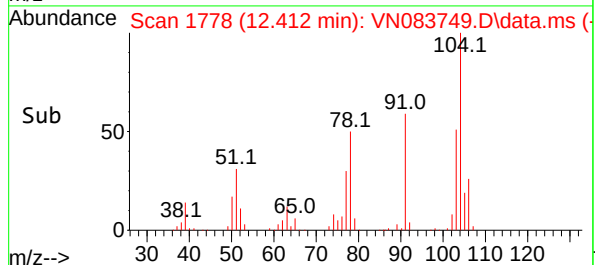
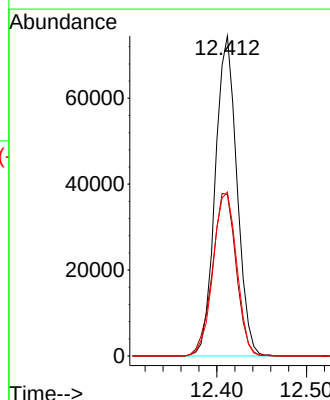
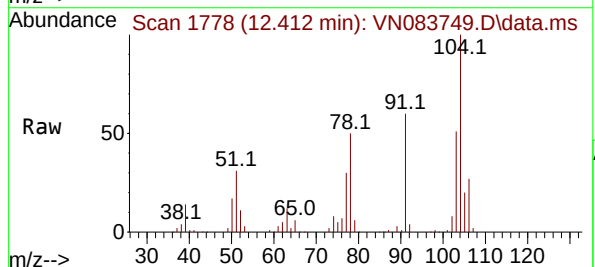
Manual Integrations
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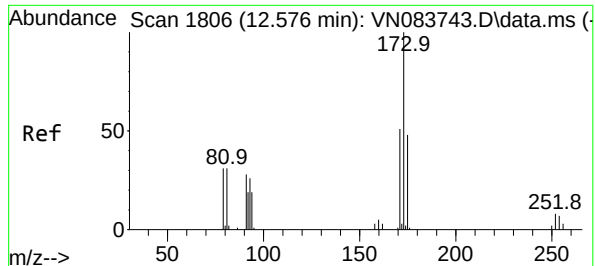
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#70
Styrene
Concen: 23.262 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

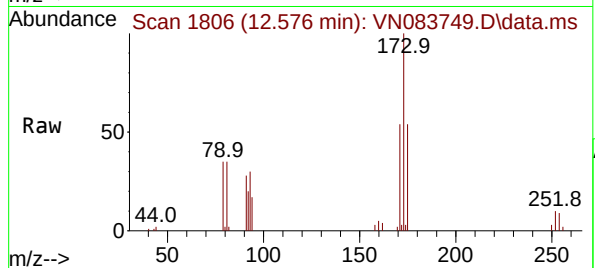
Tgt Ion:104 Resp: 125129
Ion Ratio Lower Upper
104 100
78 55.7 43.3 64.9
103 55.6 43.4 65.2





#71
Bromoform
Concen: 23.185 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

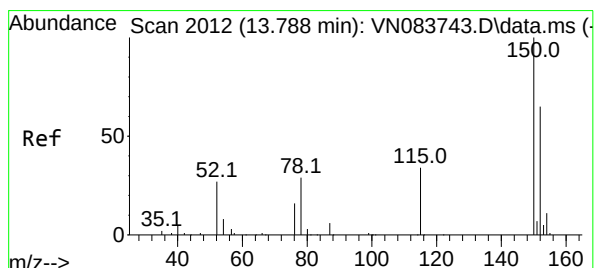
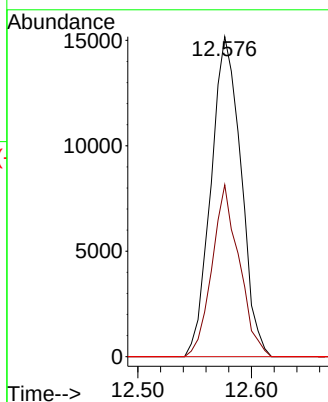
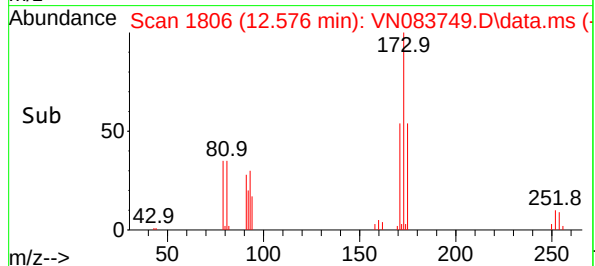
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:173 Resp: 2780
Ion Ratio Lower Upper
173 100
175 48.8 24.1 72.2
254 0.0 0.0 0.0

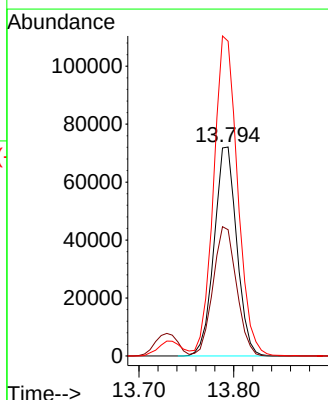
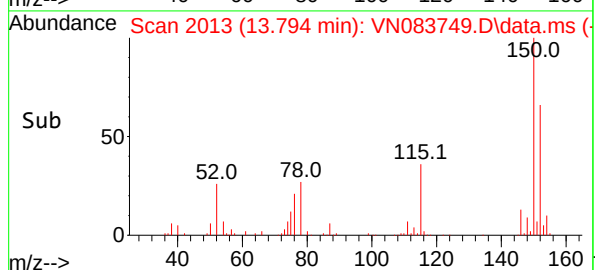
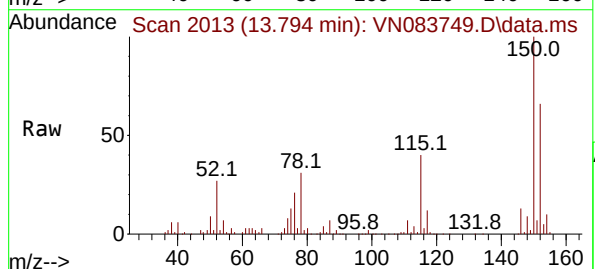
Manual Integrations
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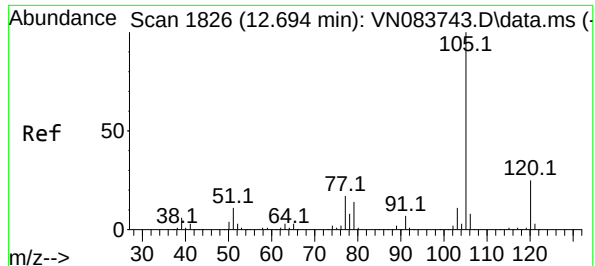
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

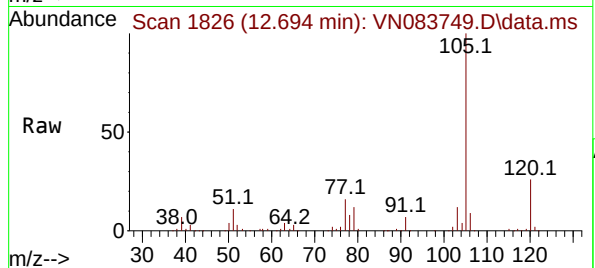
Tgt Ion:152 Resp: 120031
Ion Ratio Lower Upper
152 100
115 64.1 32.2 96.6
150 162.3 0.0 348.6





#73
Isopropylbenzene
Concen: 21.379 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

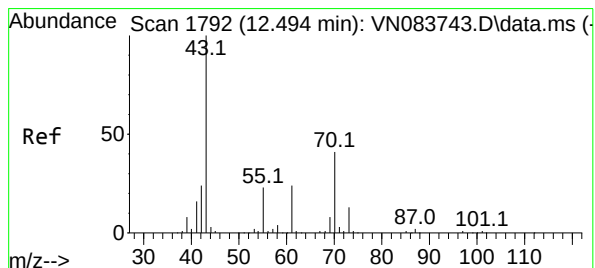
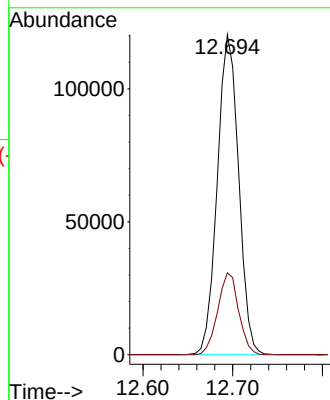
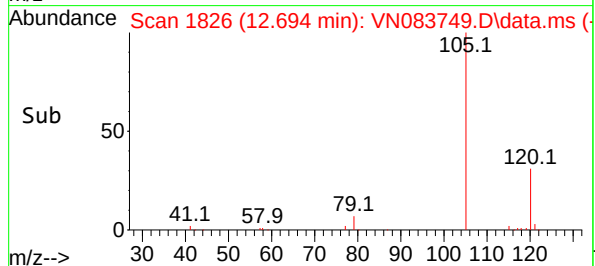
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:105 Resp: 198534
Ion Ratio Lower Upper
105 100
120 25.1 12.6 37.8

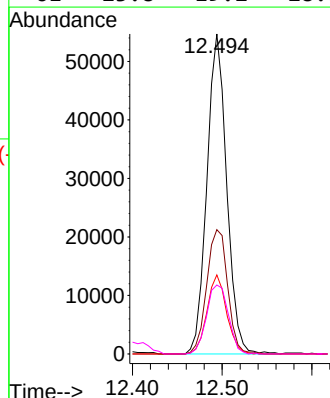
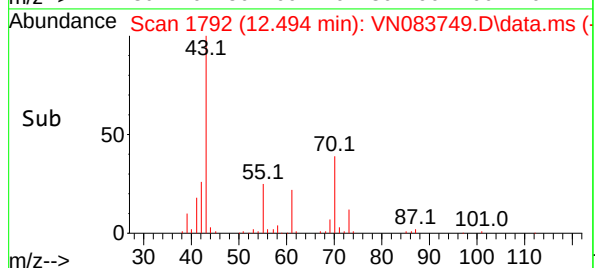
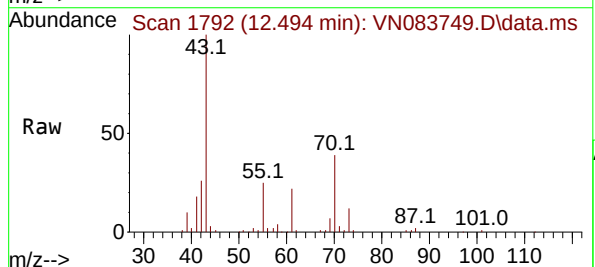
Manual Integrations
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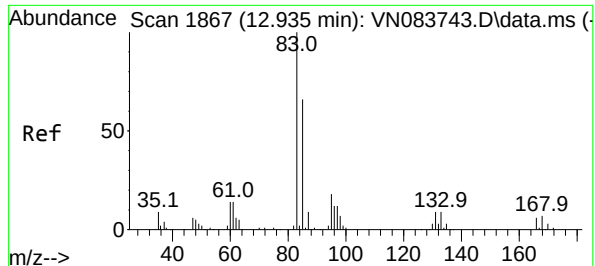
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#74
N-ethyl acetate
Concen: 21.141 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

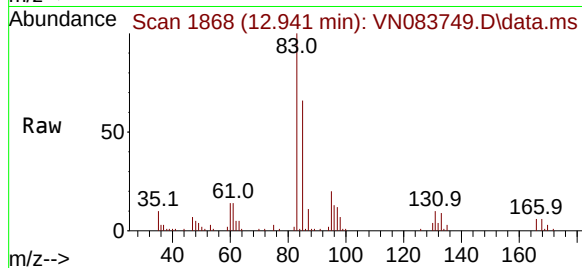
Tgt Ion: 43 Resp: 83761
Ion Ratio Lower Upper
43 100
70 41.0 34.5 51.7
55 24.5 18.6 28.0
61 23.8 19.2 28.8





#75
1,1,2,2-Tetrachloroethane
Concen: 20.500 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

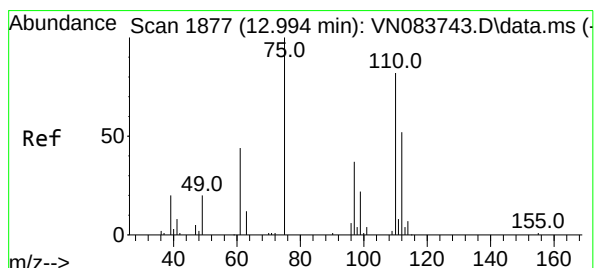
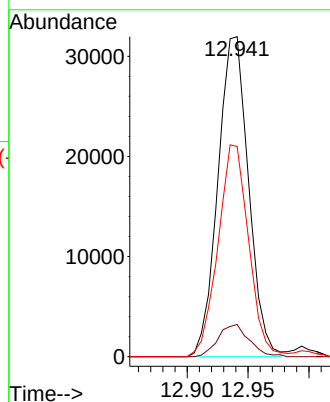
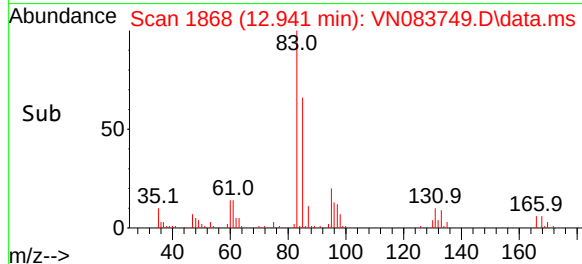
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 83 Resp: 55934
Ion Ratio Lower Upper
83 100
131 10.2 5.2 15.6
85 66.3 31.9 95.9

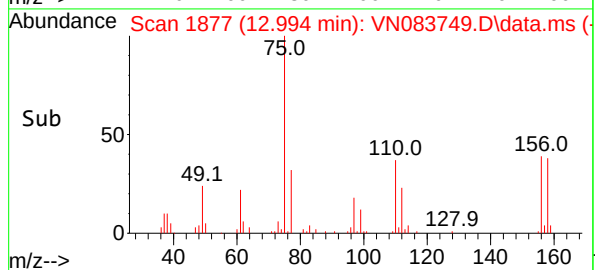
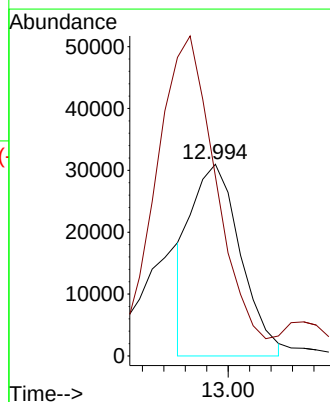
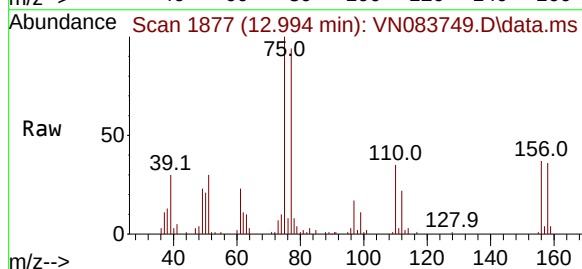
Manual Integrations
APPROVED

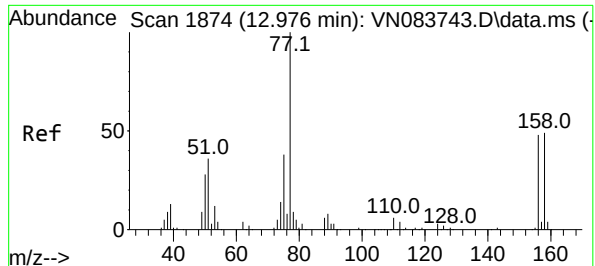
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#76
1,2,3-Trichloropropane
Concen: 20.452 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

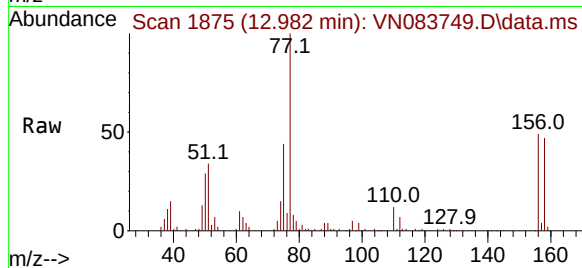
Tgt Ion: 75 Resp: 49535
Ion Ratio Lower Upper
75 100
77 205.7 95.2 285.6





#77
Bromobenzene
Concen: 19.984 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

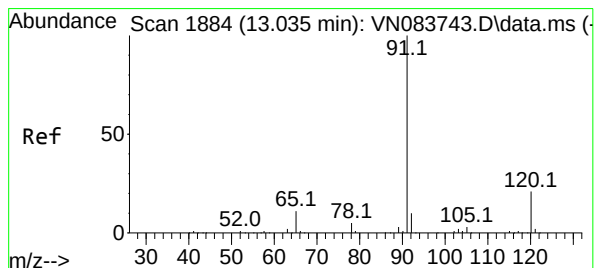
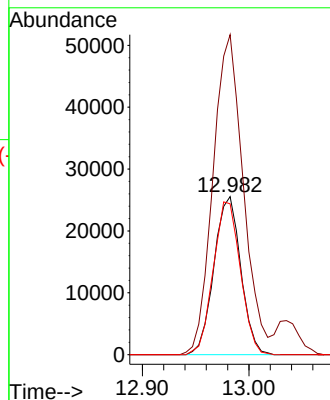
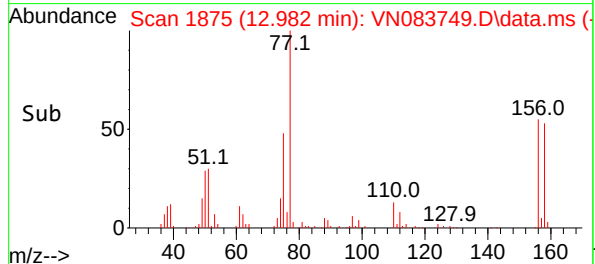
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020



Tgt Ion:156 Resp: 44670
Ion Ratio Lower Upper
156 100
77 228.1 114.3 343.1
158 97.6 48.9 146.7

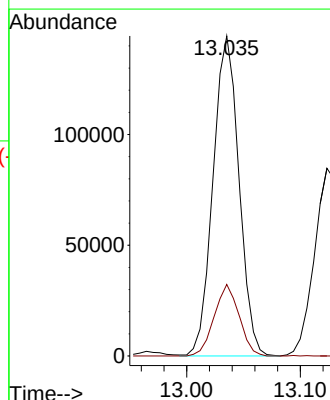
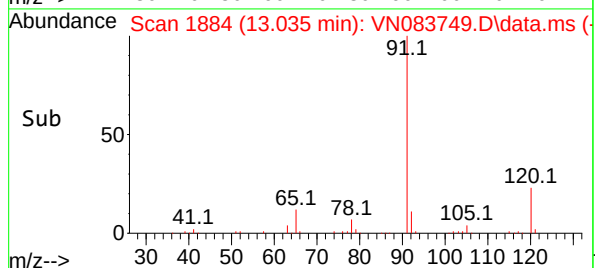
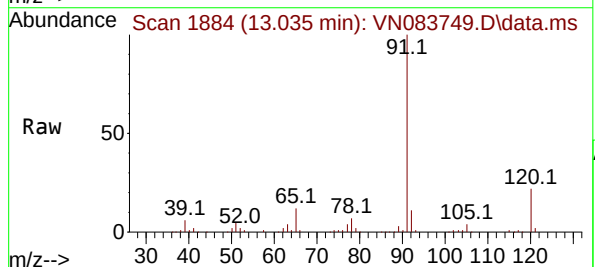
Manual Integrations
APPROVED

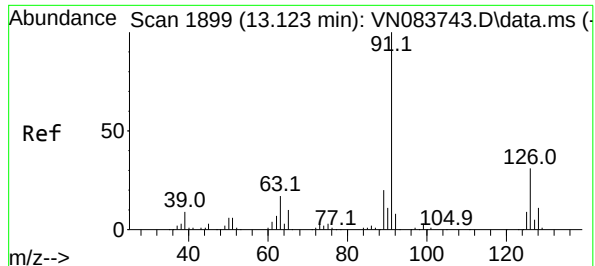
Reviewed By :John Carbone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#78
n-propylbenzene
Concen: 21.223 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 91 Resp: 229309
Ion Ratio Lower Upper
91 100
120 21.4 11.0 33.0





#79

2-Chlorotoluene

Concen: 21.370 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 14725

Ion Ratio Lower Upper

91 100

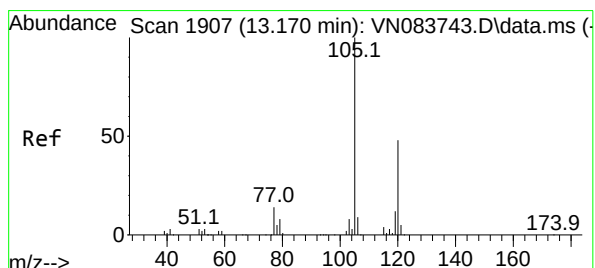
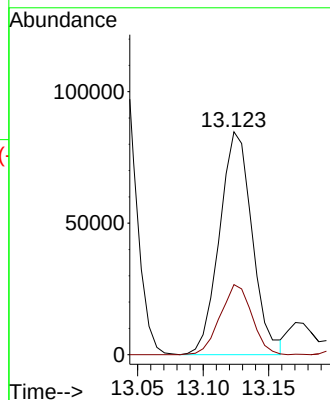
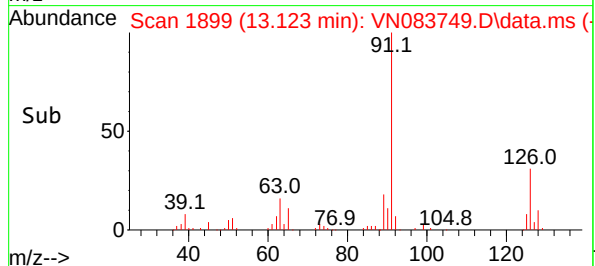
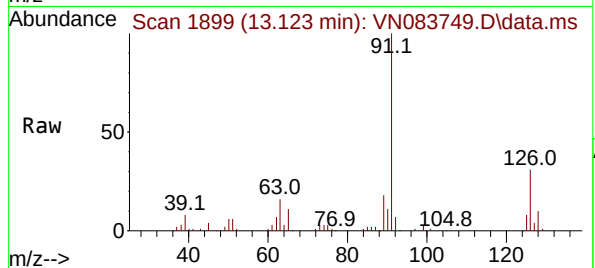
126 30.3 15.4 46.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#80

1,3,5-Trimethylbenzene

Concen: 21.379 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN083749.D

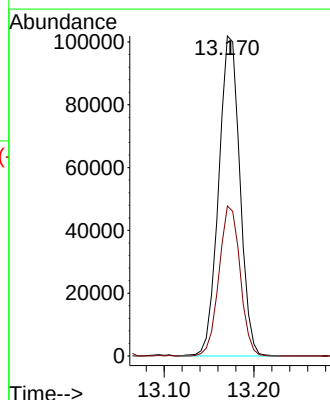
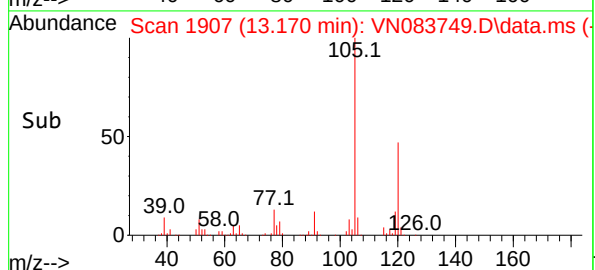
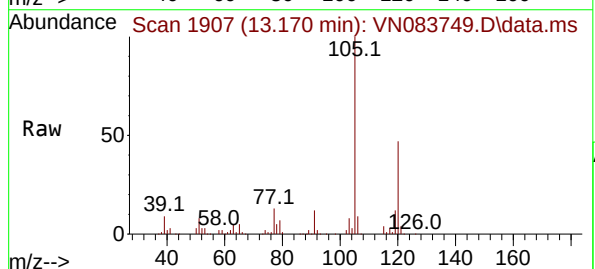
Acq: 10 Sep 2024 12:43

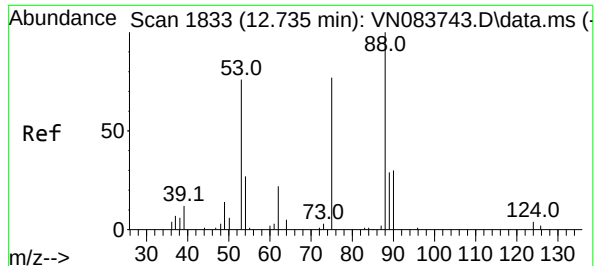
Tgt Ion:105 Resp: 167379

Ion Ratio Lower Upper

105 100

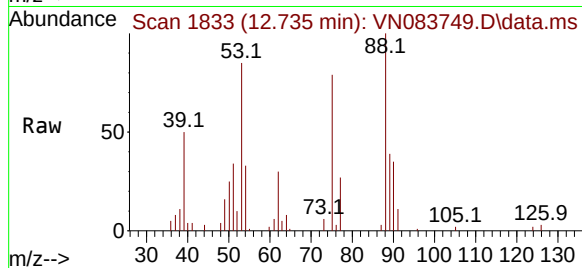
120 46.6 23.4 70.3





#81
trans-1,4-Dichloro-2-butene
Concen: 20.274 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

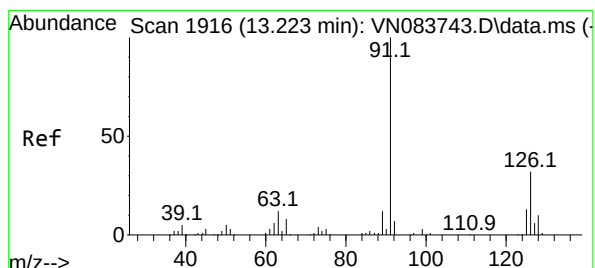
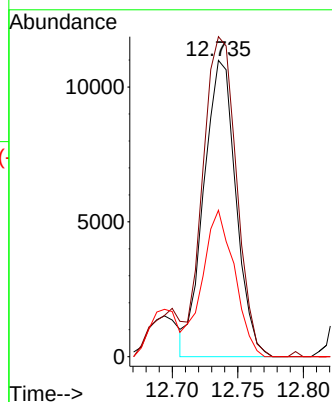
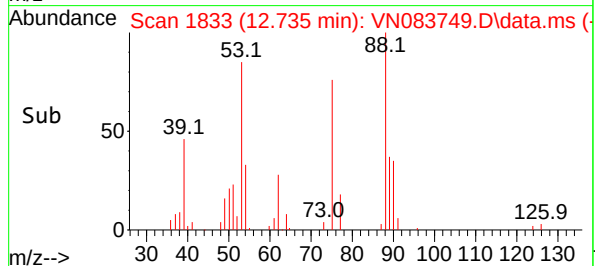
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



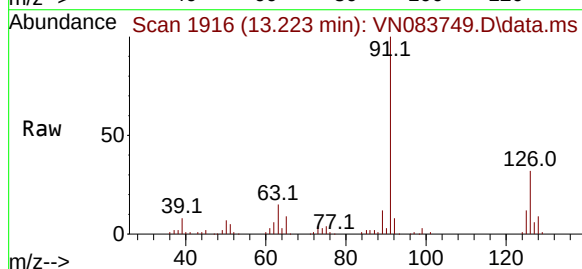
Tgt Ion: 75 Resp: 18748
Ion Ratio Lower Upper
75 100
53 127.4 81.2 121.8
89 49.9 35.7 53.5

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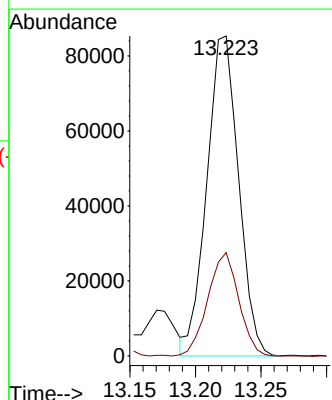
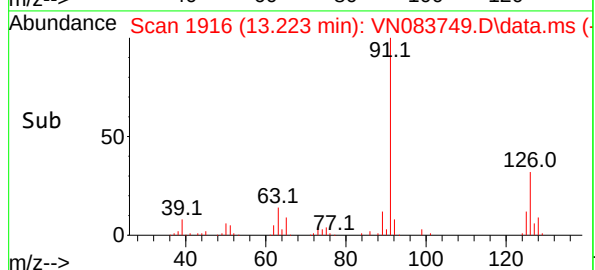
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

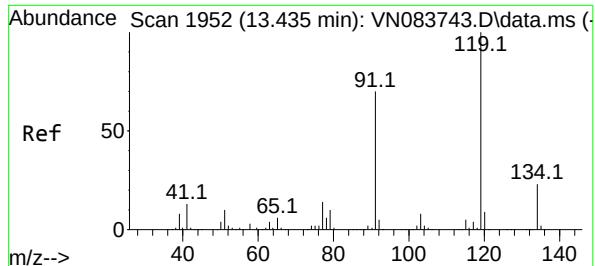


#82
4-Chlorotoluene
Concen: 20.818 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43



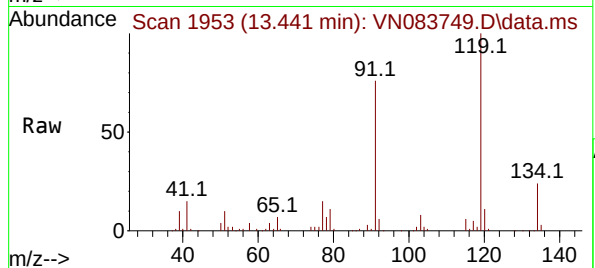
Tgt Ion: 91 Resp: 143958
Ion Ratio Lower Upper
91 100
126 31.3 15.4 46.2





#83
tert-Butylbenzene
Concen: 21.499 ug/l
RT: 13.441 min Scan# 1953
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

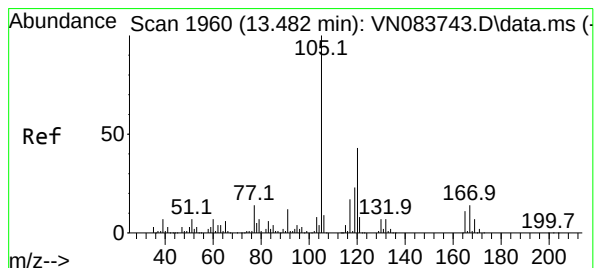
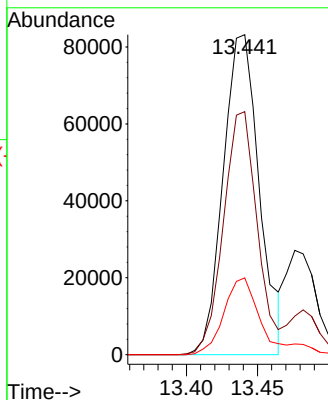
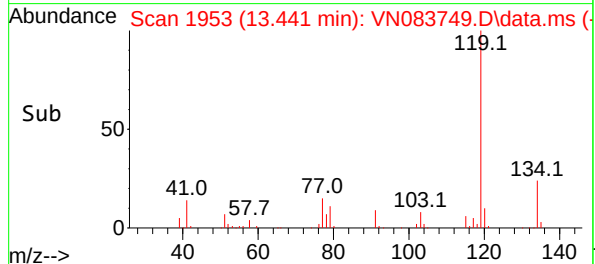
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



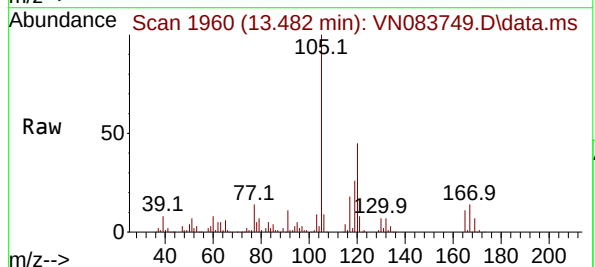
Tgt Ion:119 Resp: 14726
Ion Ratio Lower Upper
119 100
91 71.1 34.5 103.6
134 25.3 12.8 38.4

Manual Integrations
APPROVED

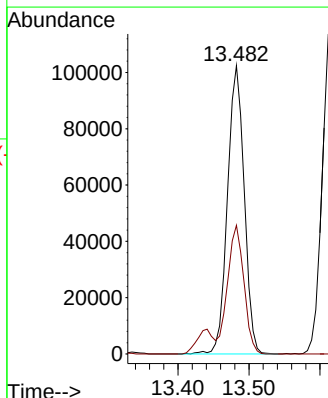
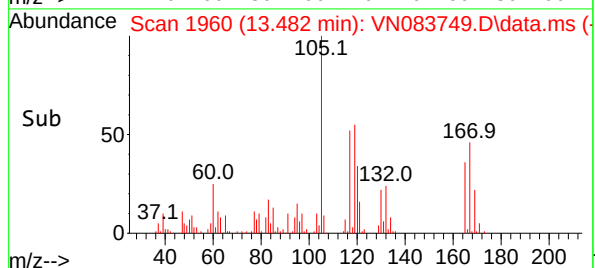
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

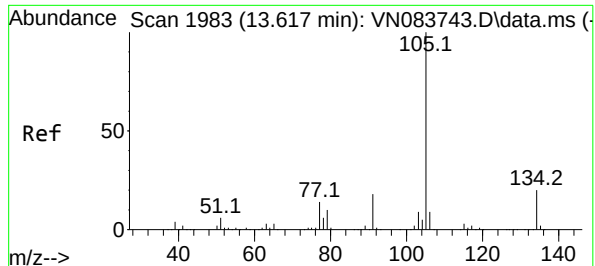


#84
1,2,4-Trimethylbenzene
Concen: 21.294 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43



Tgt Ion:105 Resp: 167470
Ion Ratio Lower Upper
105 100
120 43.8 21.8 65.4





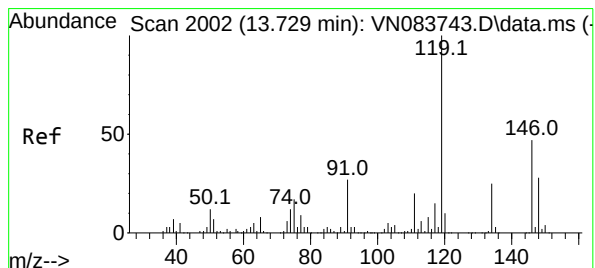
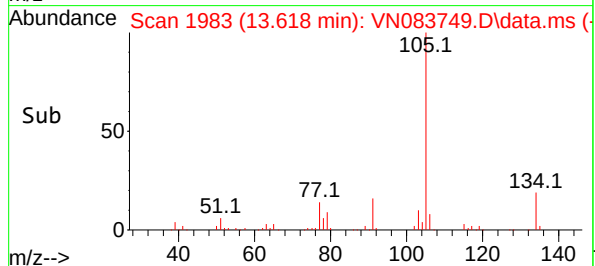
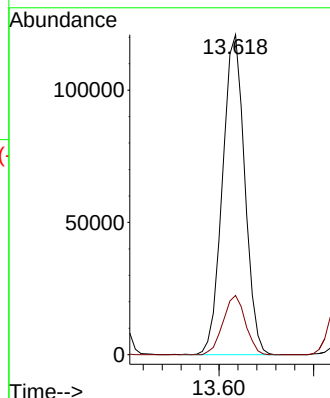
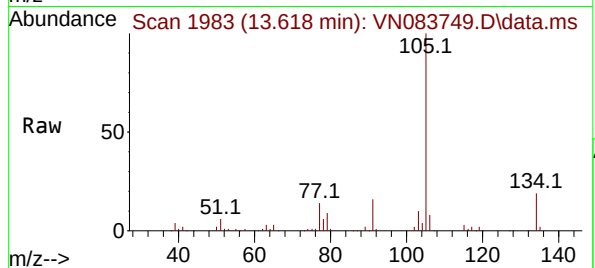
#85
sec-Butylbenzene
Concen: 21.699 ug/l
RT: 13.618 min Scan# 1983
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 19711
Ion Ratio Lower Upper
105 100
134 18.6 9.7 29.1

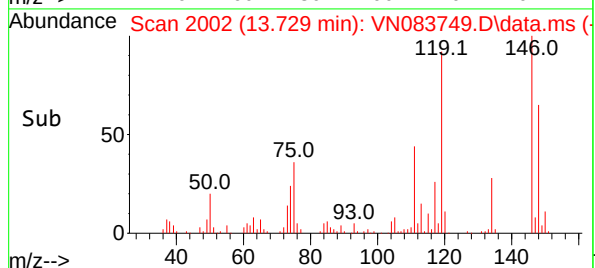
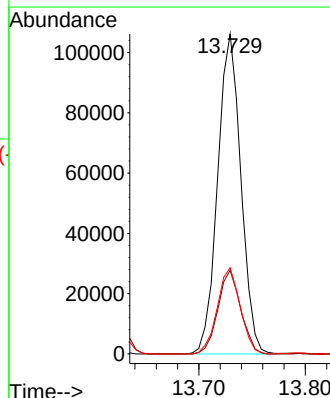
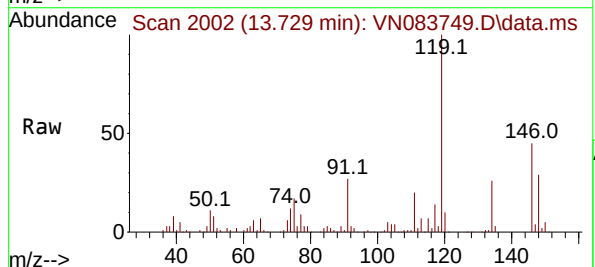
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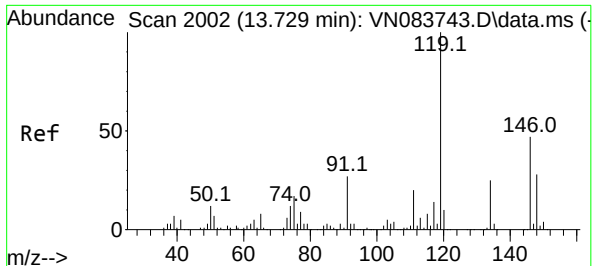
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#86
p-Isopropyltoluene
Concen: 21.110 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:119 Resp: 160758
Ion Ratio Lower Upper
119 100
134 25.6 12.8 38.3
91 26.5 12.9 38.7





#87

1,3-Dichlorobenzene

Concen: 19.957 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.006 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

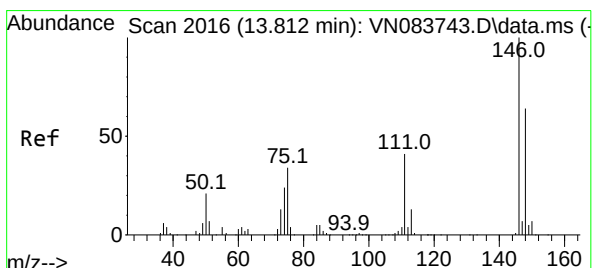
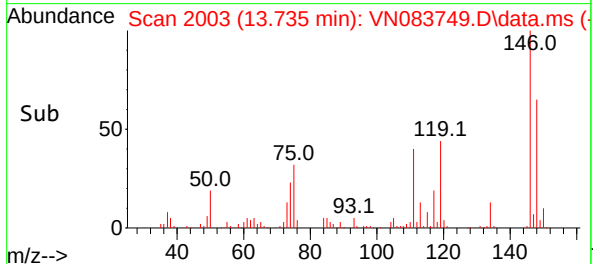
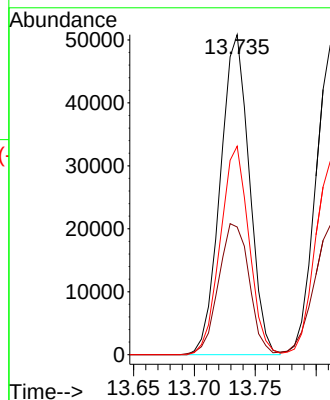
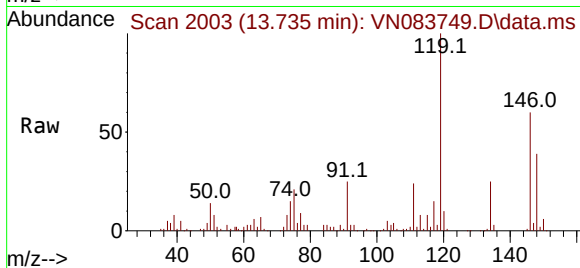
Tgt Ion:146 Resp: 84190
Ion Ratio Lower Upper
146 100
111 43.5 21.7 65.1
148 64.5 31.7 95.1

Manual Integrations

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Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#88

1,4-Dichlorobenzene

Concen: 19.311 ug/l

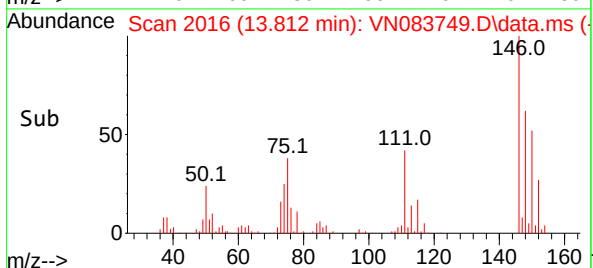
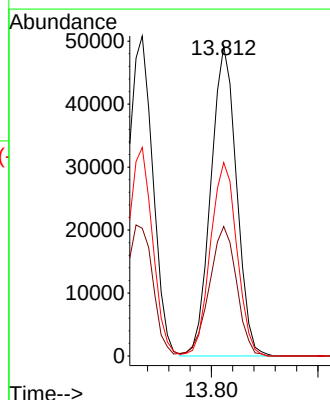
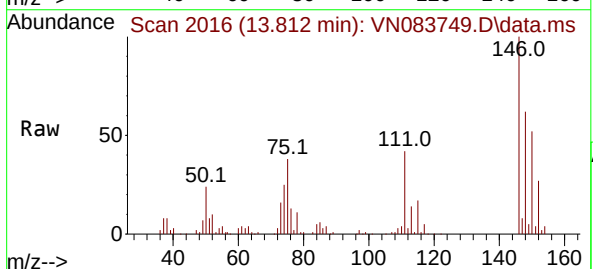
RT: 13.812 min Scan# 2016

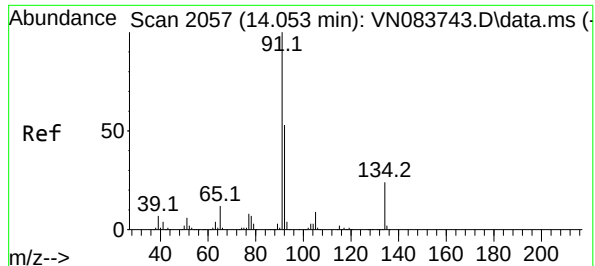
Delta R.T. 0.000 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Tgt Ion:146 Resp: 82492
Ion Ratio Lower Upper
146 100
111 44.3 21.3 64.0
148 64.3 32.0 96.2





#89

n-Butylbenzene

Concen: 20.506 ug/l

RT: 14.059 min Scan# 2057

Delta R.T. 0.006 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

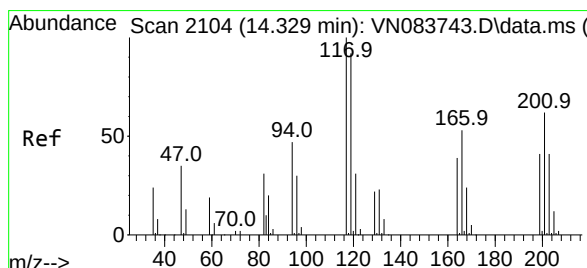
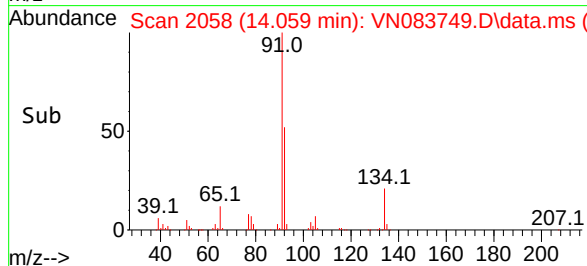
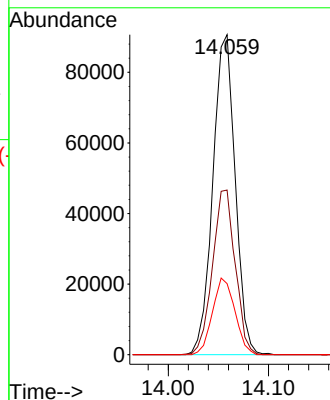
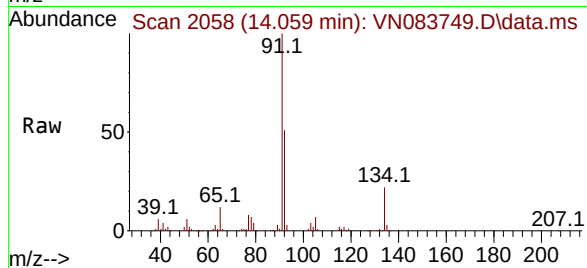
Tgt Ion: 91	Resp: 140204
Ion Ratio	Lower Upper
91	100
92	52.4 26.7 80.1
134	24.1 12.2 36.4

Manual Integrations

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Reviewed By :John Carbone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#90

Hexachloroethane

Concen: 20.629 ug/l

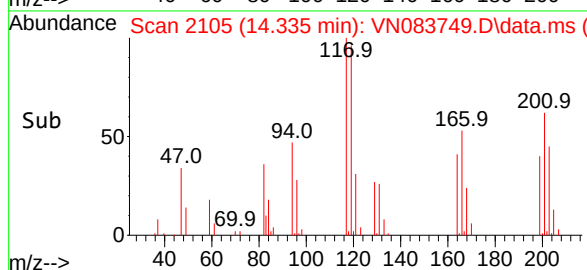
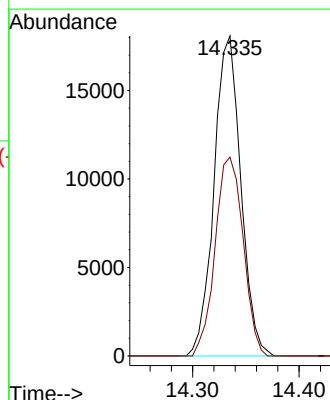
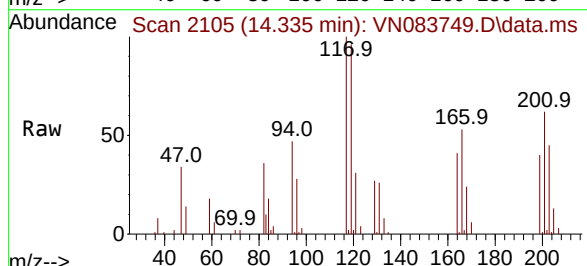
RT: 14.335 min Scan# 2105

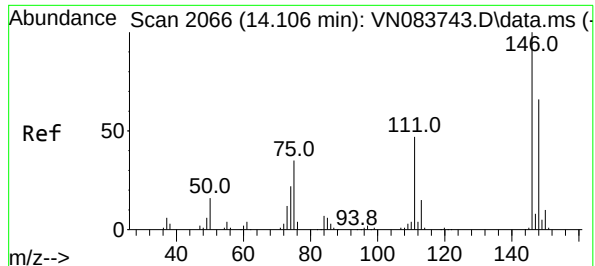
Delta R.T. 0.006 min

Lab File: VN083749.D

Acq: 10 Sep 2024 12:43

Tgt Ion: 117	Resp: 31578
Ion Ratio	Lower Upper
117	100
201	65.0 32.8 98.3





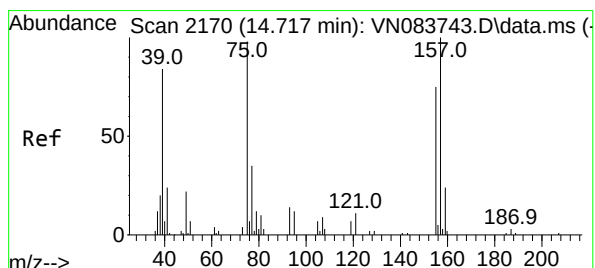
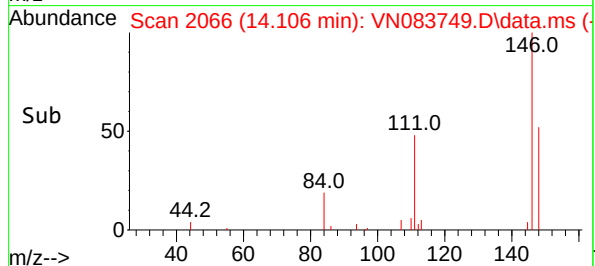
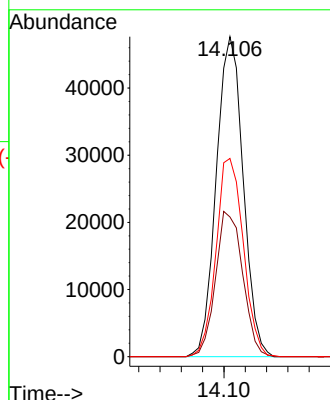
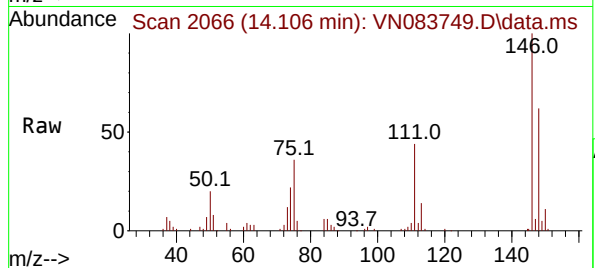
#91
1,2-Dichlorobenzene
Concen: 20.523 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 8355
Ion Ratio Lower Upper
146 100
111 45.8 22.8 68.3
148 62.8 32.1 96.5

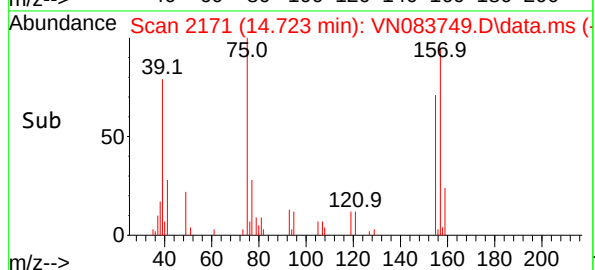
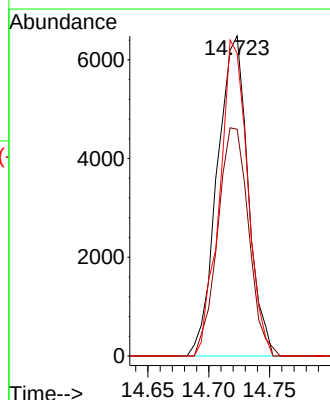
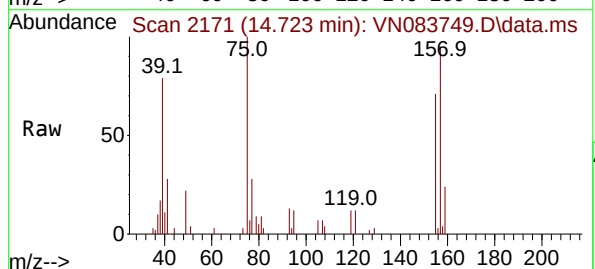
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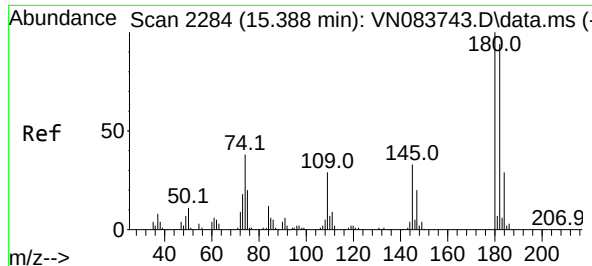
Reviewed By :John Carbone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.893 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

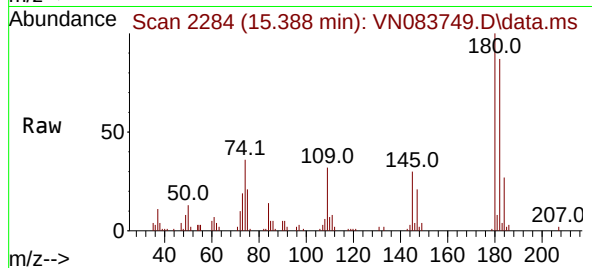
Tgt Ion: 75 Resp: 11364
Ion Ratio Lower Upper
75 100
155 71.9 35.9 107.7
157 89.8 47.5 142.5





#93
1,2,4-Trichlorobenzene
Concen: 19.228 ug/l
RT: 15.388 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

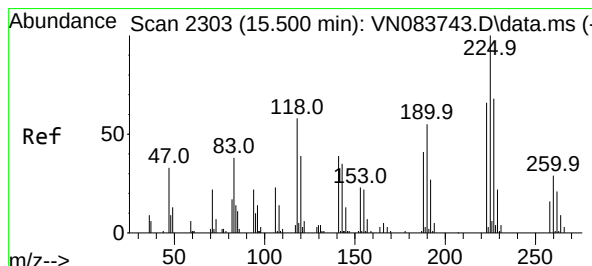
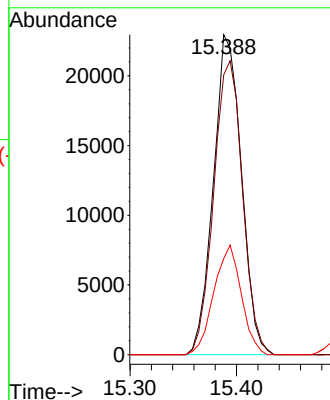
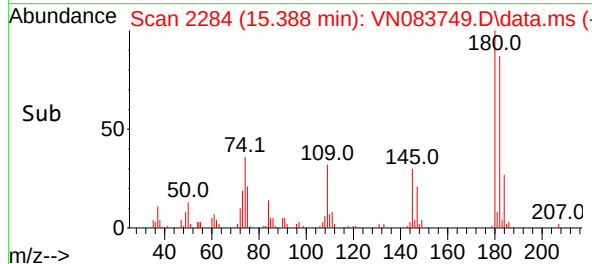
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020



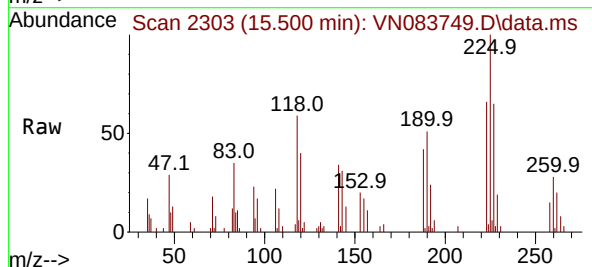
Tgt Ion:180 Resp: 42008
Ion Ratio Lower Upper
180 100
182 94.2 48.1 144.3
145 33.4 16.9 50.7

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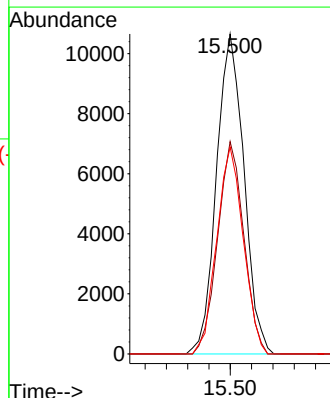
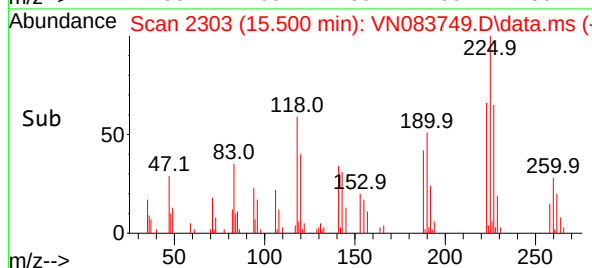
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

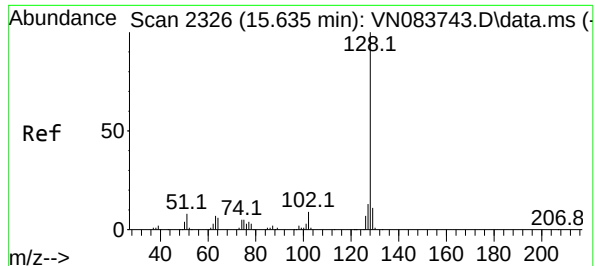


#94
Hexachlorobutadiene
Concen: 20.528 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43



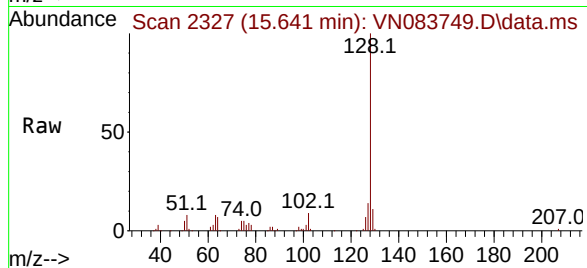
Tgt Ion:225 Resp: 19047
Ion Ratio Lower Upper
225 100
223 63.2 31.9 95.5
227 62.5 32.0 96.2





#95
Naphthalene
Concen: 19.401 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

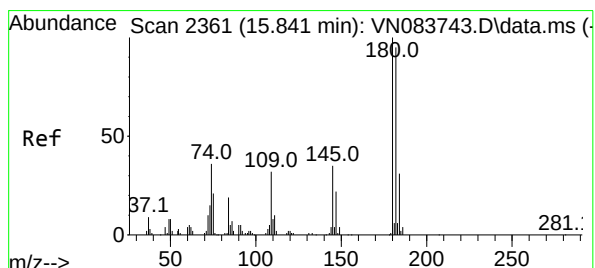
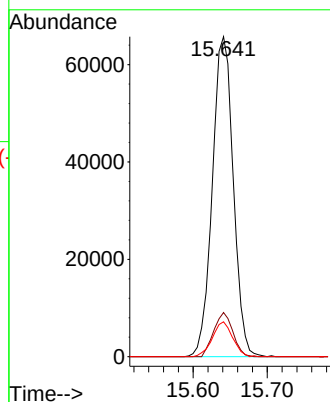
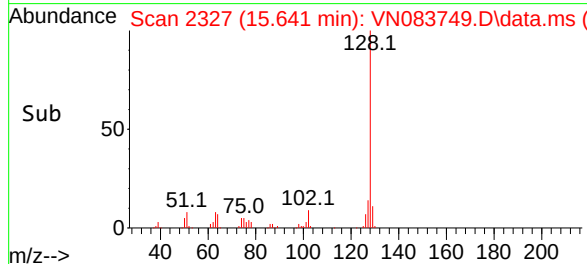
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020



Tgt Ion:128 Resp: 128950
Ion Ratio Lower Upper
128 100
127 12.6 10.2 15.2
129 10.6 8.7 13.1

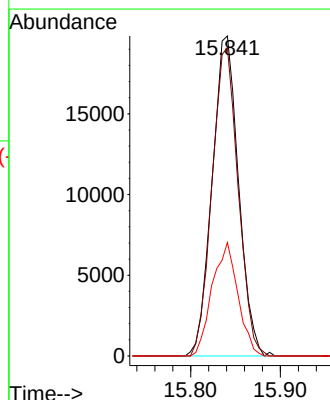
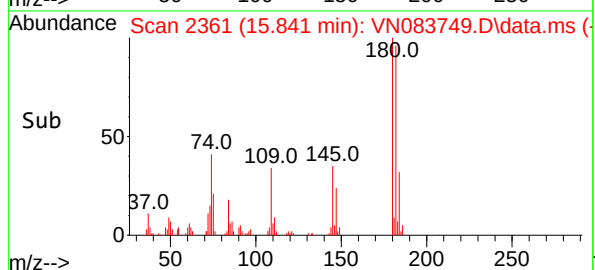
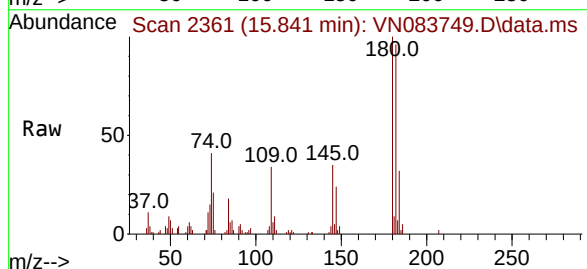
Manual Integrations
APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#96
1,2,3-Trichlorobenzene
Concen: 19.317 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:180 Resp: 40335
Ion Ratio Lower Upper
180 100
182 95.7 47.1 141.4
145 34.7 17.8 53.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
 Data File : VN083750.D
 Acq On : 10 Sep 2024 13:36
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN091024

Quant Time: Sep 11 03:12:03 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 02:47:22 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
 Supervised By :Semsettin Yesilyurt 09/11/2024

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	166715	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	279593	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	251259	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	124781	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	123469	49.116	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.240%		
35) Dibromofluoromethane	8.159	113	89241	49.858	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.720%		
50) Toluene-d8	10.565	98	327030	52.850	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	105.700%		
62) 4-Bromofluorobenzene	12.847	95	128312	50.260	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	100.520%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	102269	52.821	ug/l	96
3) Chloromethane	2.359	50	103182	52.272	ug/l	93
4) Vinyl Chloride	2.512	62	105842	49.874	ug/l	99
5) Bromomethane	2.901	94	59692	48.990	ug/l	98
6) Chloroethane	3.077	64	70920	47.641	ug/l	99
7) Trichlorofluoromethane	3.477	101	180010	49.971	ug/l	97
8) Diethyl Ether	3.953	74	61593	51.008	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.359	101	98415	51.544	ug/l	98
10) Methyl Iodide	4.577	142	126109	51.932	ug/l	97
11) Tert butyl alcohol	5.530	59	83810	248.972	ug/l	100
12) 1,1-Dichloroethene	4.330	96	92652	51.382	ug/l	98
13) Acrolein	4.171	56	73660	221.776	ug/l	99
14) Allyl chloride	5.012	41	164420	51.173	ug/l	98
15) Acrylonitrile	5.712	53	231624	253.015	ug/l	99
16) Acetone	4.424	43	253986	252.037	ug/l	98
17) Carbon Disulfide	4.700	76	246645	48.898	ug/l	100
18) Methyl Acetate	5.024	43	110366	52.663	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	329011	50.422	ug/l	99
20) Methylene Chloride	5.271	84	99954	48.470	ug/l	93
21) trans-1,2-Dichloroethene	5.777	96	94729	49.020	ug/l	97
22) Diisopropyl ether	6.671	45	339994	51.404	ug/l	97
23) Vinyl Acetate	6.600	43	1293827	267.118	ug/l	99
24) 1,1-Dichloroethane	6.559	63	187715	49.262	ug/l	99
25) 2-Butanone	7.477	43	338271	255.394	ug/l	98
26) 2,2-Dichloropropane	7.489	77	181899	51.834	ug/l	100
27) cis-1,2-Dichloroethene	7.489	96	115321	50.270	ug/l	98
28) Bromochloromethane	7.806	49	83573	52.080	ug/l	97
29) Tetrahydrofuran	7.836	42	204115	260.627	ug/l	99
30) Chloroform	7.965	83	202830	50.138	ug/l	94
31) Cyclohexane	8.253	56	173023	47.623	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	187174	50.318	ug/l	99
36) 1,1-Dichloropropene	8.365	75	139150	51.650	ug/l	99
37) Ethyl Acetate	7.553	43	134383	54.953	ug/l	99
38) Carbon Tetrachloride	8.359	117	163561	53.514	ug/l	99
39) Methylcyclohexane	9.600	83	169844	55.386	ug/l	98
40) Benzene	8.600	78	425950	52.529	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
 Data File : VN083750.D
 Acq On : 10 Sep 2024 13:36
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 03:12:03 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M

Quant Title : SW846 8260

QLast Update : Wed Sep 11 02:47:22 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	78230	54.088	ug/l	99
42) 1,2-Dichloroethane	8.671	62	159957	52.791	ug/l	100
43) Isopropyl Acetate	8.688	43	235666	53.180	ug/l	97
44) Trichloroethene	9.347	130	97854	52.111	ug/l	95
45) 1,2-Dichloropropane	9.618	63	103105	52.608	ug/l	96
46) Dibromomethane	9.706	93	73906	53.838	ug/l	98
47) Bromodichloromethane	9.883	83	157512	53.018	ug/l	96
48) Methyl methacrylate	9.683	41	116089	55.216	ug/l	97
49) 1,4-Dioxane	9.694	88	36346	1050.868	ug/l #	98
51) 4-Methyl-2-Pentanone	10.447	43	658160	272.839	ug/l	99
52) Toluene	10.630	92	266506	53.732	ug/l	97
53) t-1,3-Dichloropropene	10.835	75	165901	55.091	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	170616	53.937	ug/l	96
55) 1,1,2-Trichloroethane	11.018	97	98280	53.075	ug/l	99
56) Ethyl methacrylate	10.871	69	163284	57.314	ug/l	98
57) 1,3-Dichloropropane	11.159	76	169155	53.152	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	247009	240.626	ug/l	98
59) 2-Hexanone	11.194	43	502171	281.422	ug/l	98
60) Dibromochloromethane	11.359	129	114660	55.330	ug/l	99
61) 1,2-Dibromoethane	11.471	107	97924	53.026	ug/l	99
64) Tetrachloroethene	11.100	164	83365	49.891	ug/l	99
65) Chlorobenzene	11.888	112	277685	49.726	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	100138	51.726	ug/l	100
67) Ethyl Benzene	11.965	91	525097	52.932	ug/l	99
68) m/p-Xylenes	12.071	106	392558	106.586	ug/l	99
69) o-Xylene	12.394	106	190067	53.308	ug/l	99
70) Styrene	12.412	104	316306	54.056	ug/l	98
71) Bromoform	12.576	173	72274	55.401	ug/l #	99
73) Isopropylbenzene	12.694	105	502513	52.053	ug/l	100
74) N-amyl acetate	12.494	43	214365	52.045	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	136889	48.260	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	119528m	48.674	ug/l	
77) Bromobenzene	12.976	156	111312	47.901	ug/l	99
78) n-propylbenzene	13.035	91	586056	52.176	ug/l	100
79) 2-Chlorotoluene	13.123	91	360422	50.314	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	424866	52.201	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	50495	52.525	ug/l	93
82) 4-Chlorotoluene	13.223	91	361895	50.343	ug/l	99
83) tert-Butylbenzene	13.435	119	371848	52.220	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	432216	52.865	ug/l	99
85) sec-Butylbenzene	13.618	105	507912	53.783	ug/l	100
86) p-Isopropyltoluene	13.729	119	427591	54.013	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	214469	48.903	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	212191	47.783	ug/l	99
89) n-Butylbenzene	14.053	91	371682	52.293	ug/l	100
90) Hexachloroethane	14.335	117	81433	51.172	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	208015	49.147	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	29799	52.701	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	112159	49.382	ug/l	98
94) Hexachlorobutadiene	15.500	225	47012	48.740	ug/l	99
95) Naphthalene	15.641	128	356695	51.621	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	105270	48.497	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083750.D
Acq On : 10 Sep 2024 13:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 03:12:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 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_N\Data\VN091024\
 Data File : VN083750.D
 Acq On : 10 Sep 2024 13:36
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :

MSVOA_N

Client Sample Id :

ICVVN091024

Manual Integrations

APPROVED

Reviewed By : John Carlone 09/11/2024

Supervised By : Semsettin Yesilyurt 09/11/2024

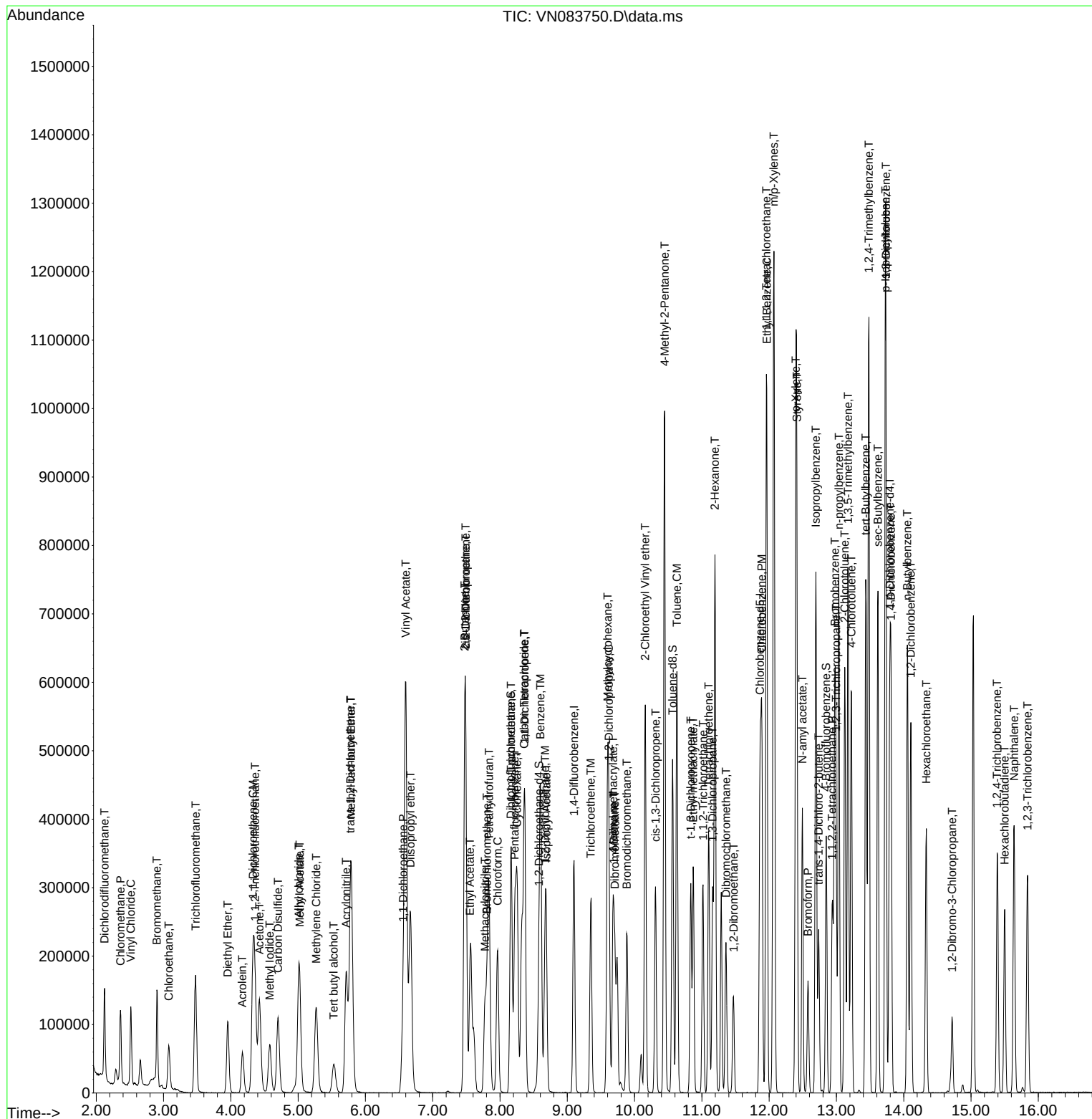
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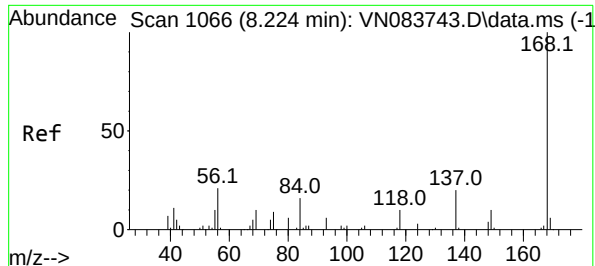
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Quant Title : SW846 8260

QLast Update : Wed Sep 11 02:47:22 2024

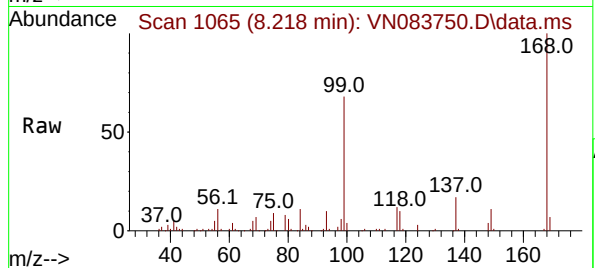
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

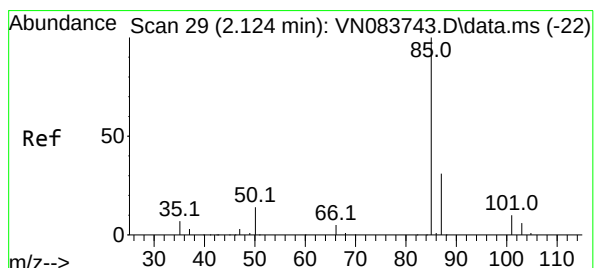
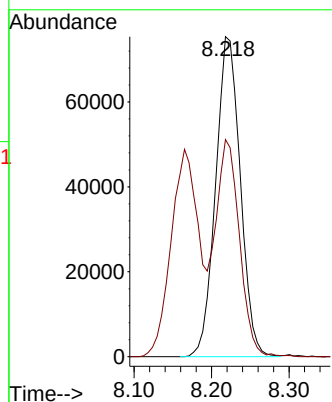
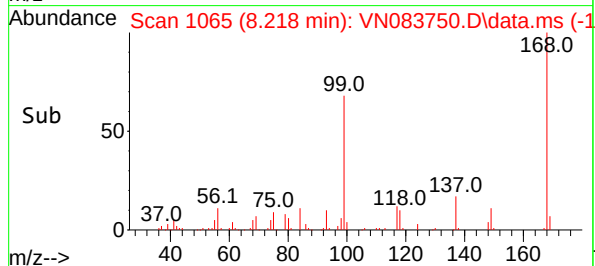
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024



Tgt Ion:168 Resp: 166715
Ion Ratio Lower Upper
168 100
99 67.5 54.2 81.2

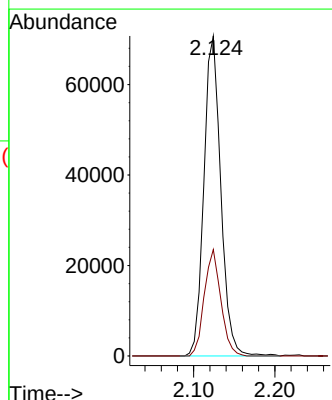
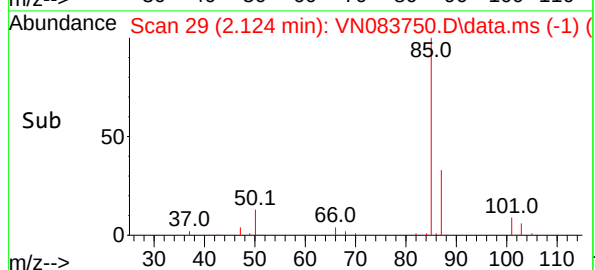
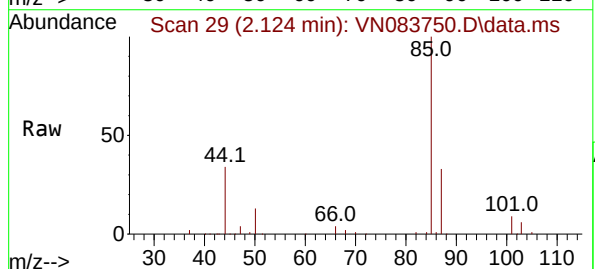
Manual Integrations
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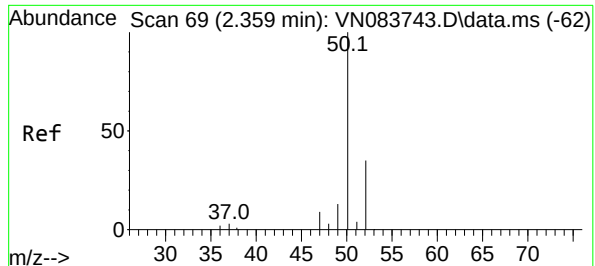
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#2
Dichlorodifluoromethane
Concen: 52.821 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 85 Resp: 102269
Ion Ratio Lower Upper
85 100
87 33.3 15.7 47.0





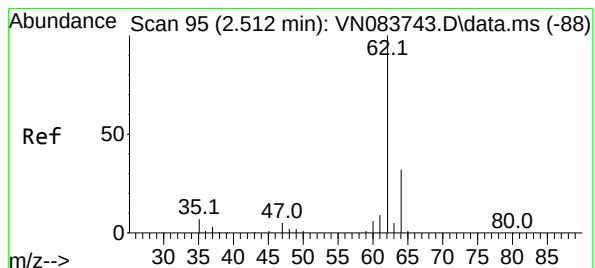
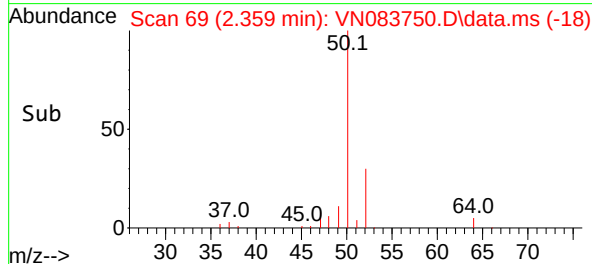
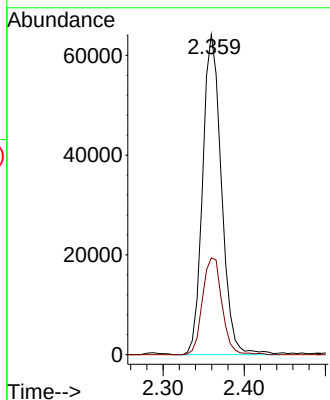
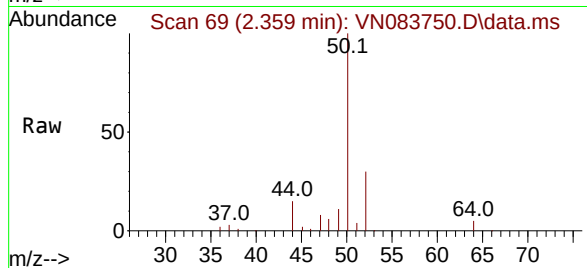
#3
Chloromethane
Concen: 52.272 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Tgt Ion: 50 Resp: 103182
Ion Ratio Lower Upper
50 100
52 30.2 27.2 40.8

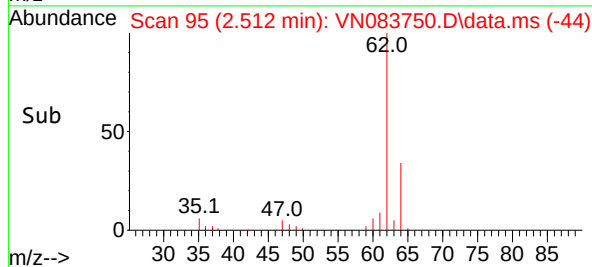
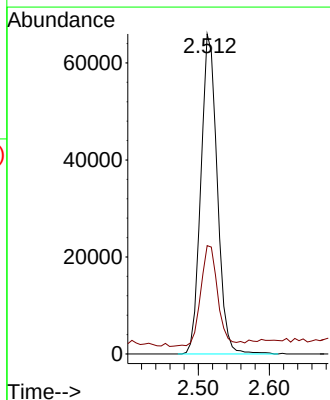
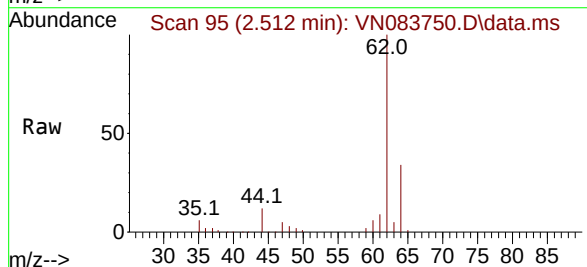
Manual Integrations
APPROVED

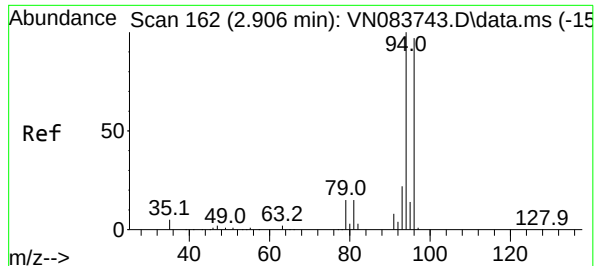
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#4
Vinyl Chloride
Concen: 49.874 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 62 Resp: 105842
Ion Ratio Lower Upper
62 100
64 31.2 24.7 37.1





#5

Bromomethane

Concen: 48.990 ug/l

RT: 2.901 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

Tgt Ion: 94 Resp: 5969

Ion Ratio Lower Upper

94 100

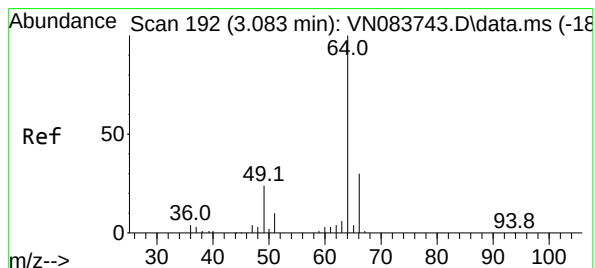
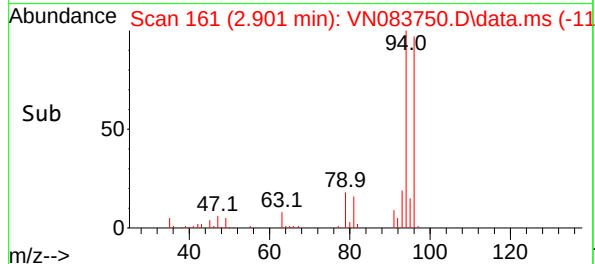
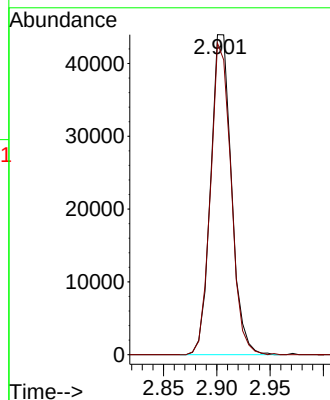
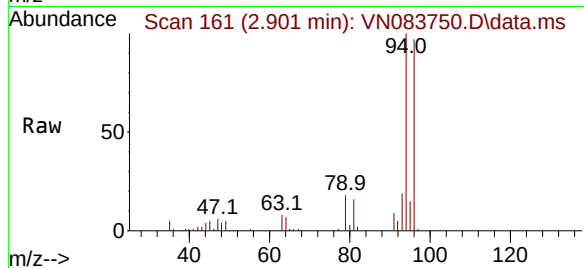
96 97.3 76.0 114.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#6

Chloroethane

Concen: 47.641 ug/l

RT: 3.077 min Scan# 191

Delta R.T. -0.006 min

Lab File: VN083750.D

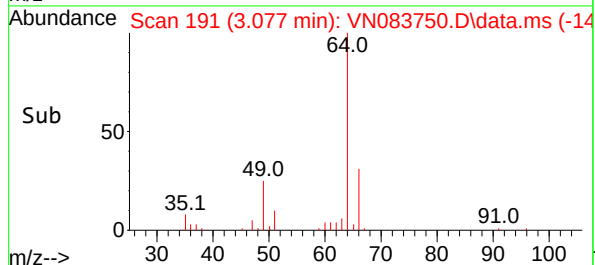
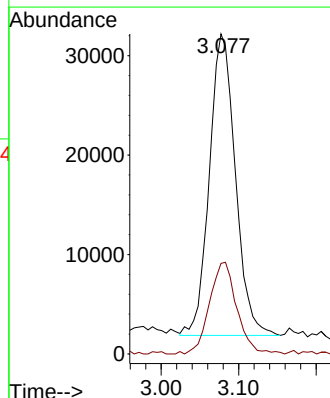
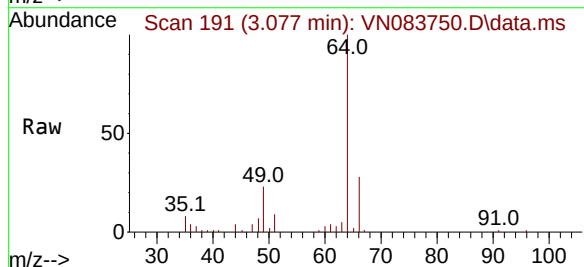
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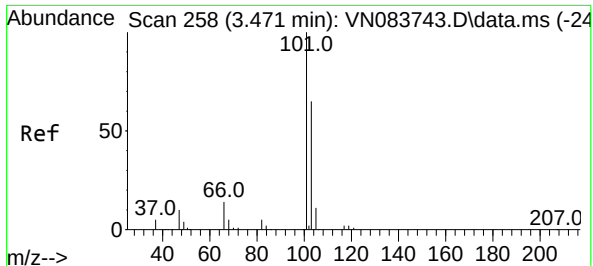
Tgt Ion: 64 Resp: 70920

Ion Ratio Lower Upper

64 100

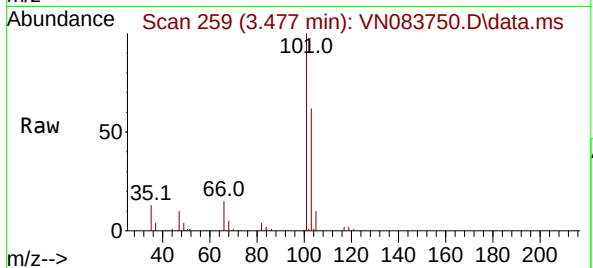
66 29.5 23.9 35.9





#7
Trichlorofluoromethane
Concen: 49.971 ug/l
RT: 3.477 min Scan# 258
Delta R.T. 0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

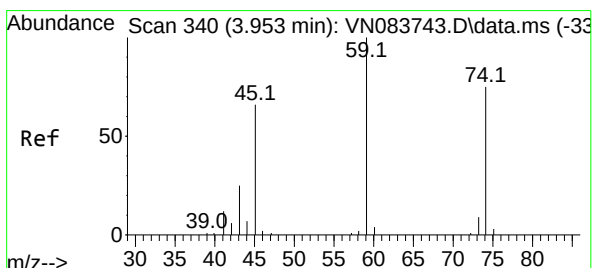
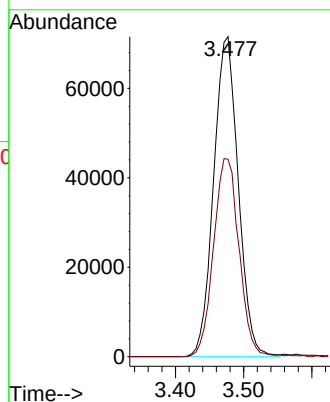
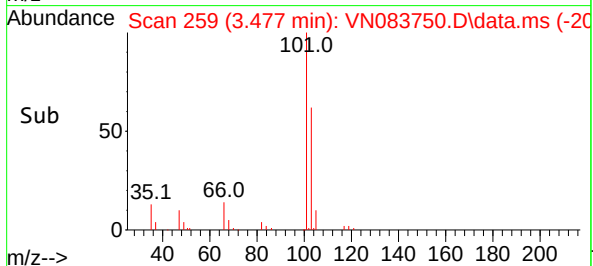
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024



Tgt Ion:101 Resp: 180010
Ion Ratio Lower Upper
101 100
103 61.7 51.4 77.0

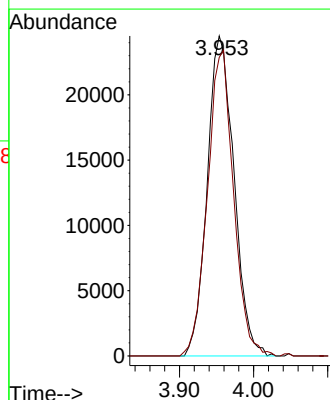
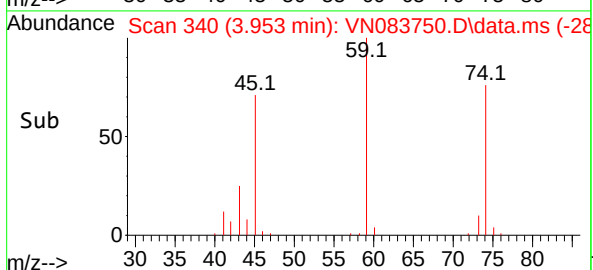
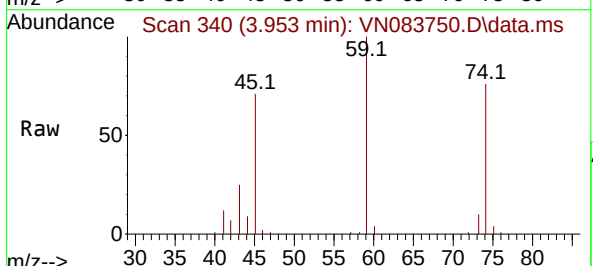
Manual Integrations
APPROVED

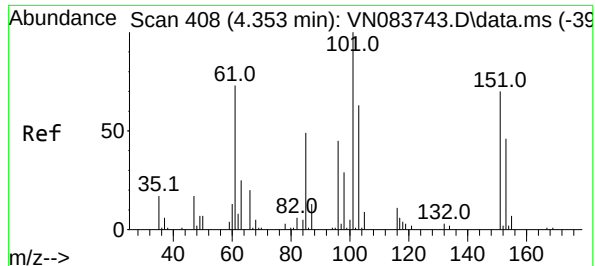
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#8
Diethyl Ether
Concen: 51.008 ug/l
RT: 3.953 min Scan# 340
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 74 Resp: 61593
Ion Ratio Lower Upper
74 100
45 93.1 46.7 140.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.544 ug/l

RT: 4.359 min Scan# 408

Delta R.T. 0.006 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

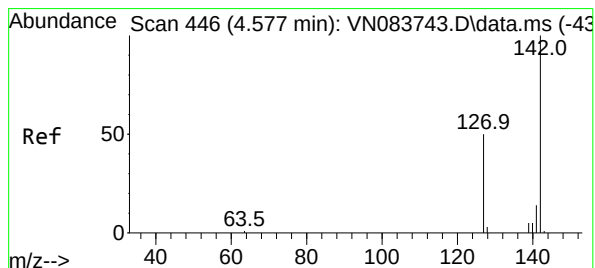
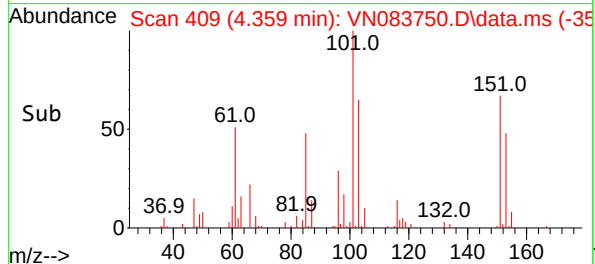
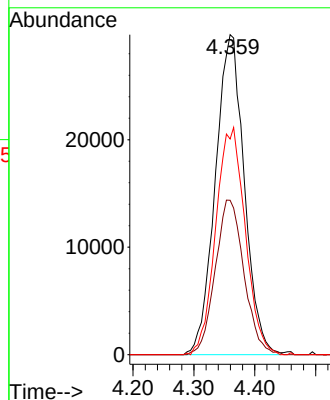
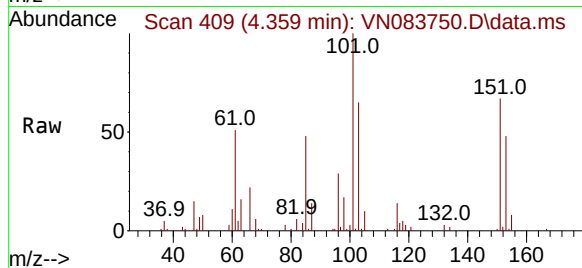
Tgt Ion:101	Resp:	9841
Ion	Ratio	Lower Upper
101	100	
85	48.0	36.2 54.4
151	72.3	57.7 86.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#10

Methyl Iodide

Concen: 51.932 ug/l

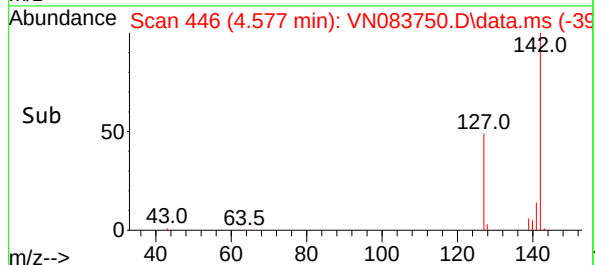
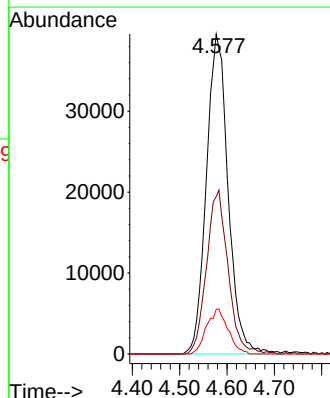
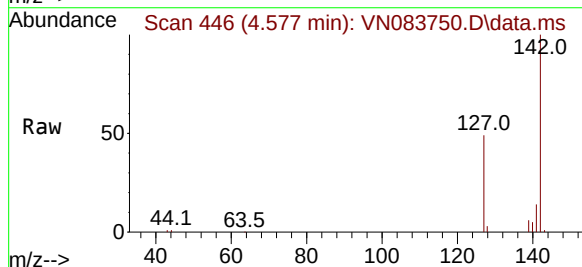
RT: 4.577 min Scan# 446

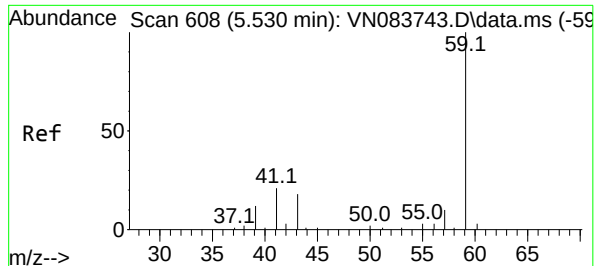
Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Tgt Ion:142	Resp:	126109
Ion	Ratio	Lower Upper
142	100	
127	49.1	37.5 56.3
141	13.9	11.0 16.4





#11

Tert butyl alcohol

Concen: 248.972 ug/l

RT: 5.530 min Scan# 608

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

Tgt Ion: 59 Resp: 83810

Ion Ratio Lower Upper

59 100

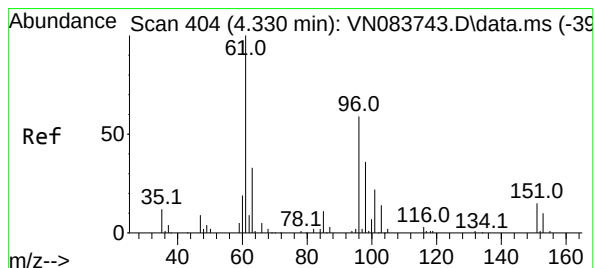
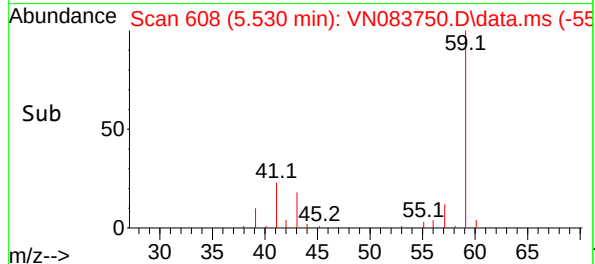
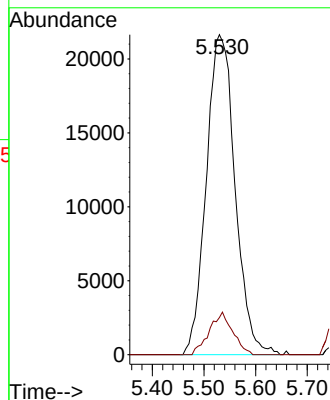
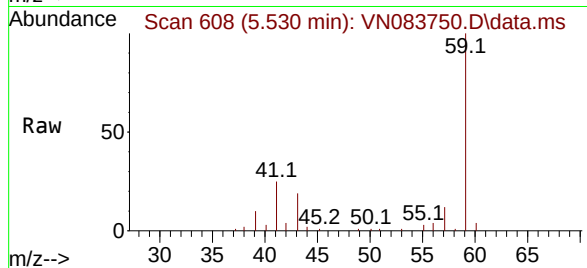
57 10.8 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#12

1,1-Dichloroethene

Concen: 51.382 ug/l

RT: 4.330 min Scan# 404

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

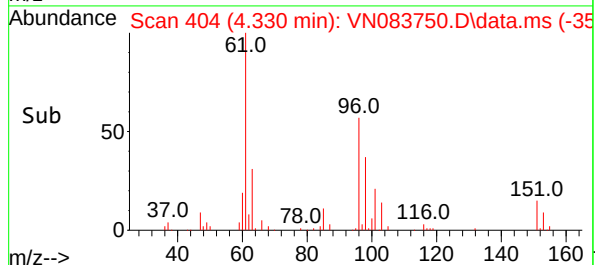
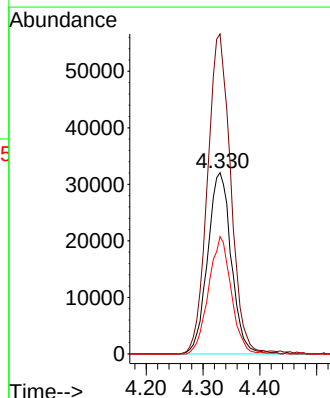
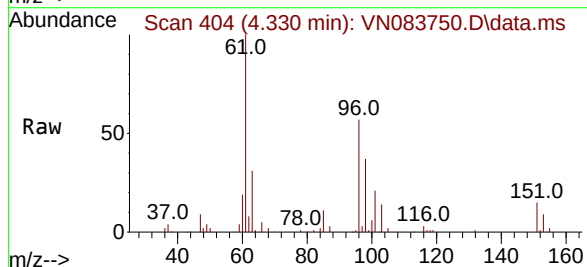
Tgt Ion: 96 Resp: 92652

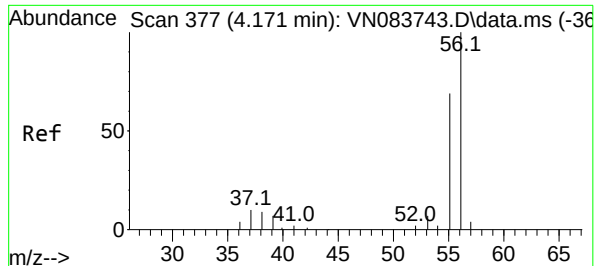
Ion Ratio Lower Upper

96 100

61 176.5 143.4 215.0

98 64.7 52.7 79.1





#13

Acrolein

Concen: 221.776 ug/l

RT: 4.171 min Scan# 31

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

Tgt Ion: 56 Resp: 73660

Ion Ratio Lower Upper

56 100

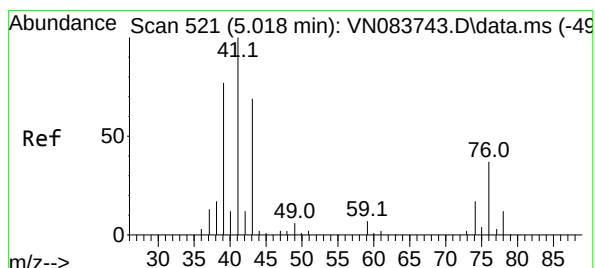
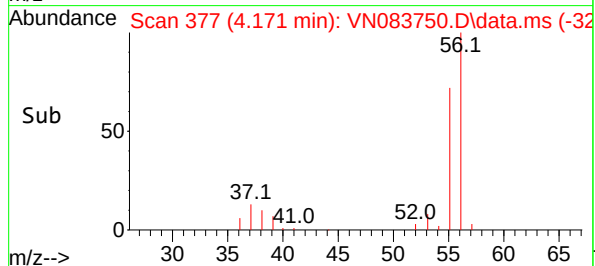
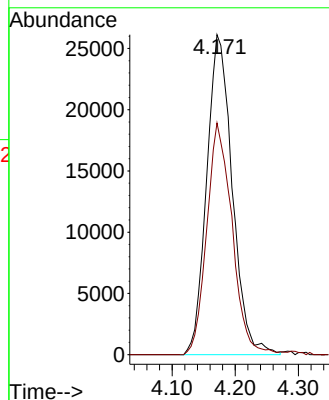
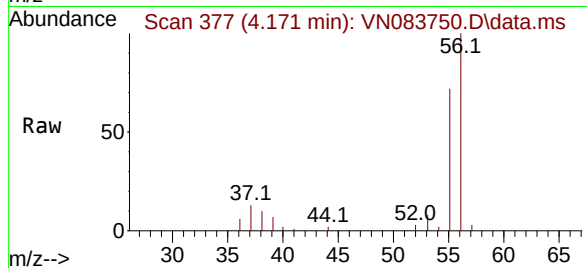
55 71.7 58.2 87.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#14

Allyl chloride

Concen: 51.173 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.006 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

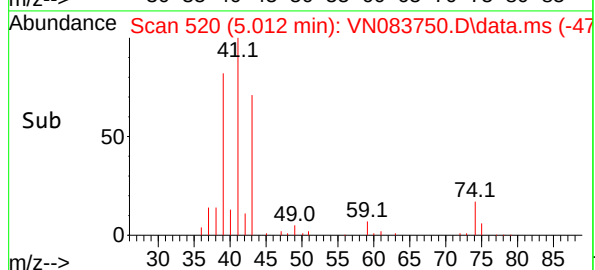
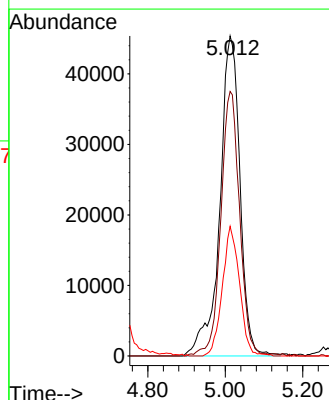
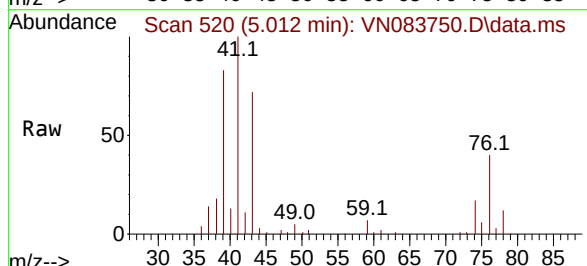
Tgt Ion: 41 Resp: 164420

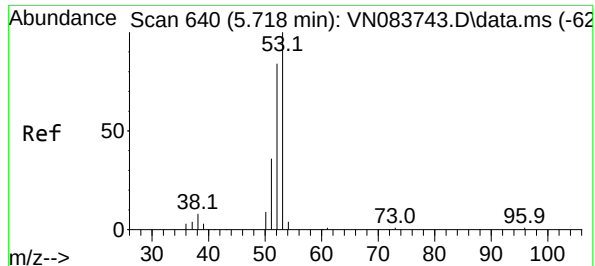
Ion Ratio Lower Upper

41 100

39 76.8 59.3 88.9

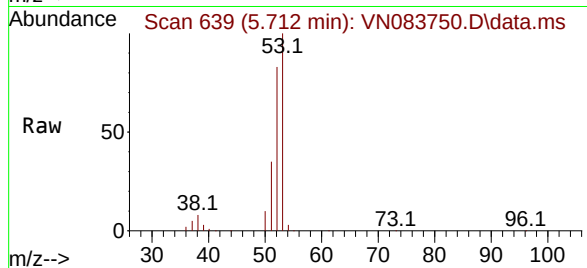
76 34.5 27.7 41.5





#15
Acrylonitrile
Concen: 253.015 ug/l
RT: 5.712 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

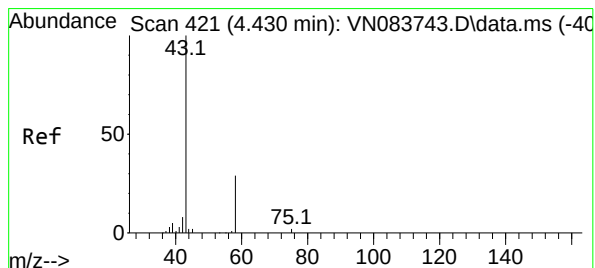
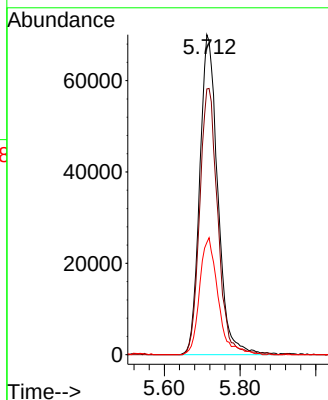
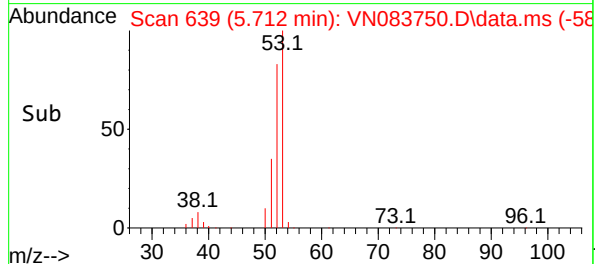
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024



Tgt Ion: 53 Resp: 231624
Ion Ratio Lower Upper
53 100
52 83.0 66.1 99.1
51 37.6 29.6 44.4

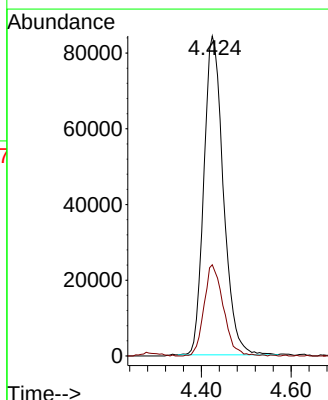
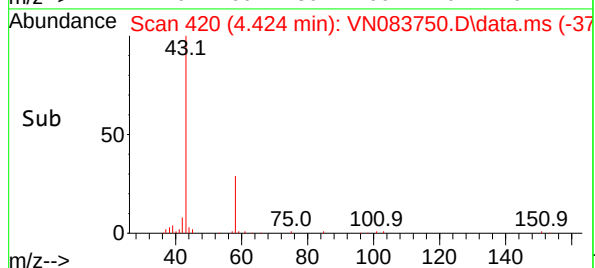
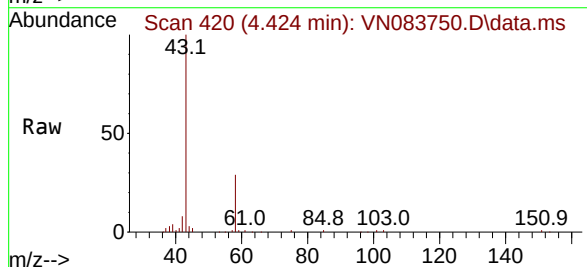
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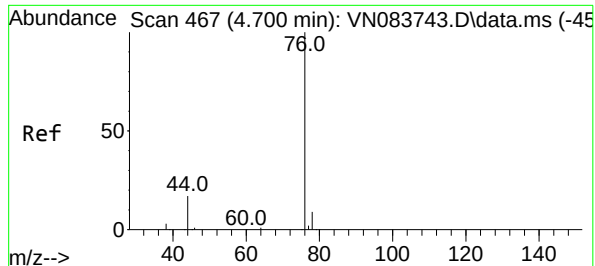
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#16
Acetone
Concen: 252.037 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

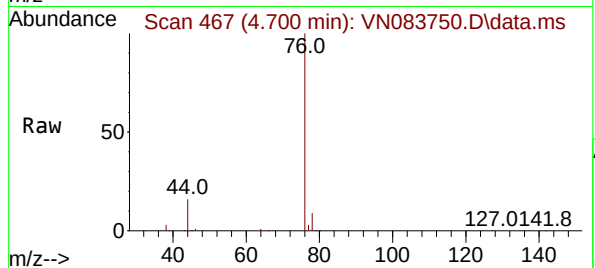
Tgt Ion: 43 Resp: 253986
Ion Ratio Lower Upper
43 100
58 28.6 23.7 35.5





#17
Carbon Disulfide
Concen: 48.898 ug/l
RT: 4.700 min Scan# 467
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

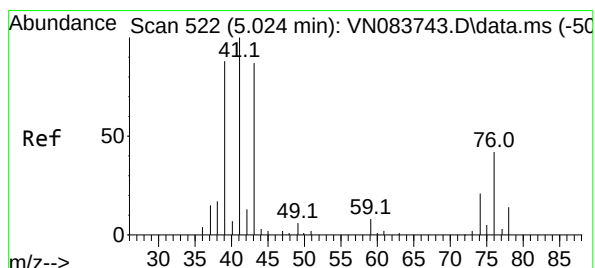
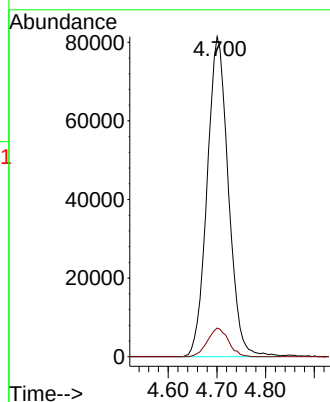
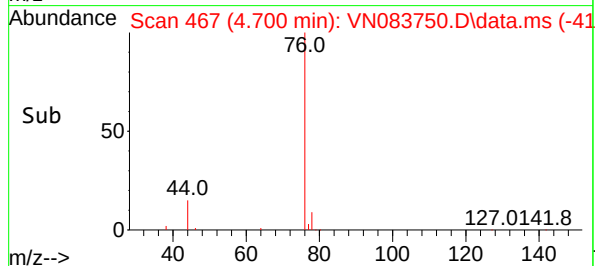
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024



Tgt Ion: 76 Resp: 246649
Ion Ratio Lower Upper
76 100
78 8.9 7.1 10.7

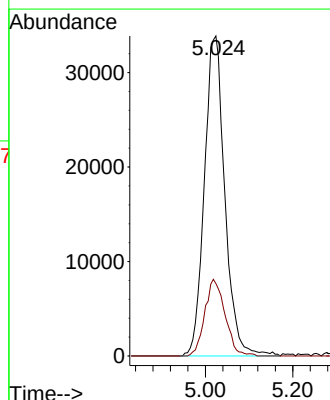
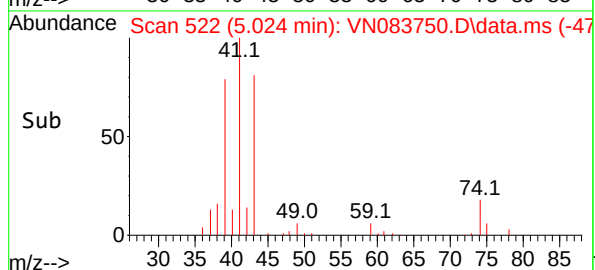
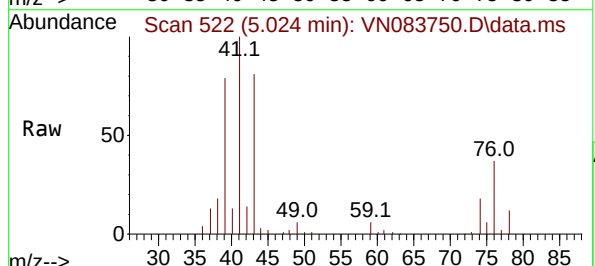
Manual Integrations
APPROVED

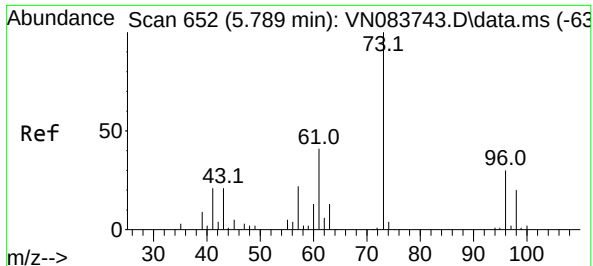
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#18
Methyl Acetate
Concen: 52.663 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 43 Resp: 110366
Ion Ratio Lower Upper
43 100
74 23.8 19.0 28.4





#19

Methyl tert-butyl Ether

Concen: 50.422 ug/l

RT: 5.789 min Scan# 61

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

Tgt Ion: 73 Resp: 32901

Ion Ratio Lower Upper

73 100

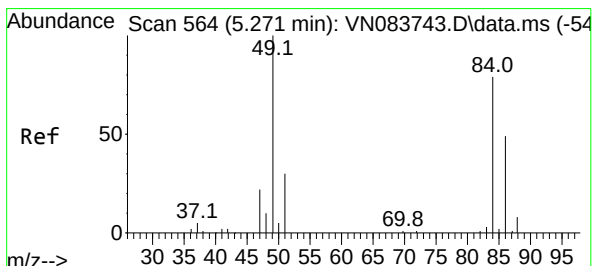
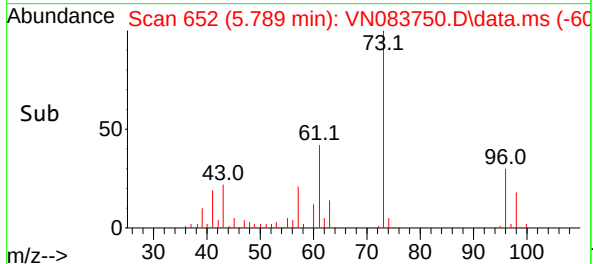
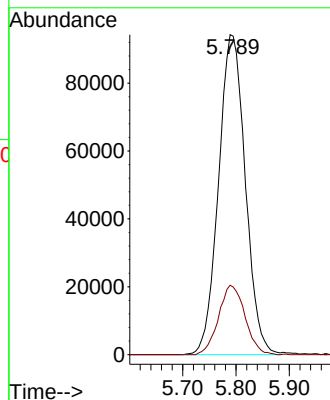
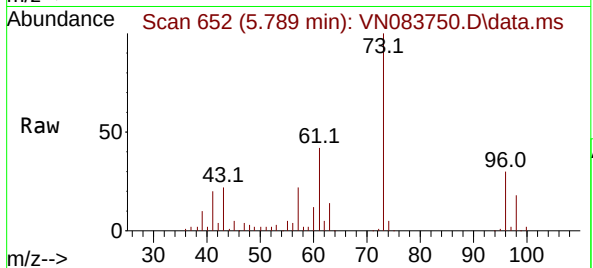
57 21.7 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#20

Methylene Chloride

Concen: 48.470 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Tgt Ion: 84 Resp: 99954

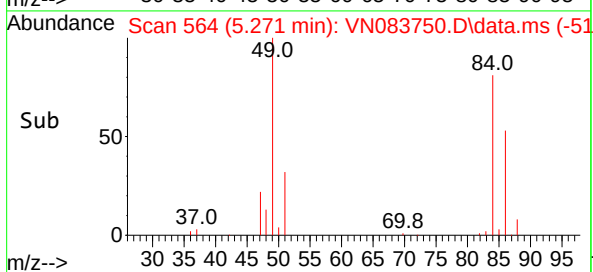
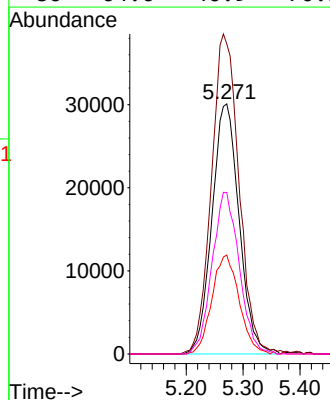
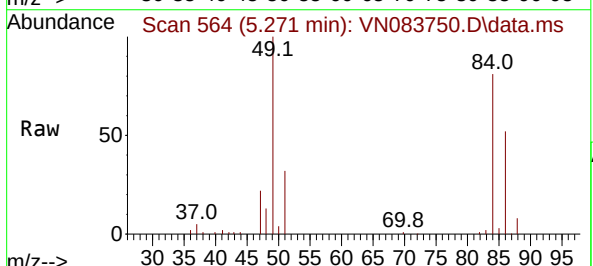
Ion Ratio Lower Upper

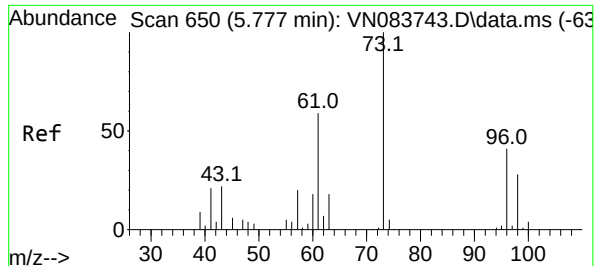
84 100

49 124.0 93.4 140.0

51 39.6 29.2 43.8

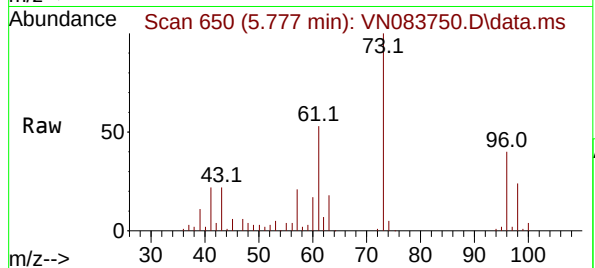
86 64.6 46.9 70.3





#21
trans-1,2-Dichloroethene
Concen: 49.020 ug/l
RT: 5.777 min Scan# 610
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

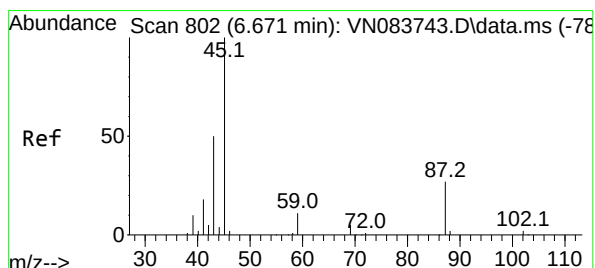
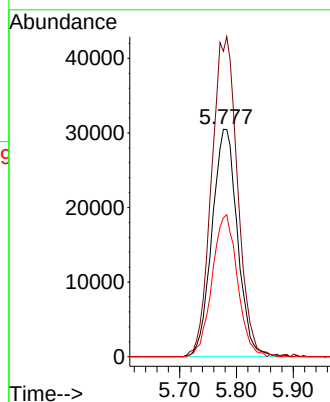
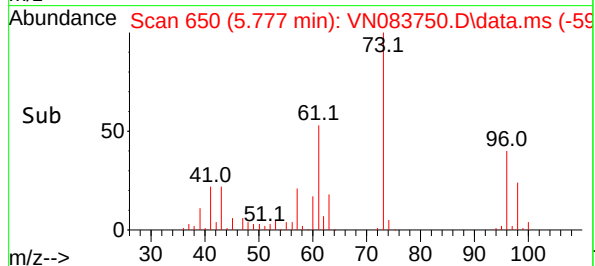
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024



Tgt Ion: 96 Resp: 94729
Ion Ratio Lower Upper
96 100
61 134.3 106.0 159.0
98 61.1 52.2 78.2

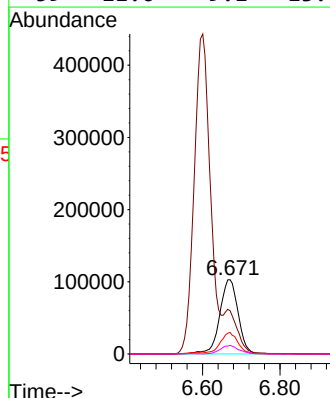
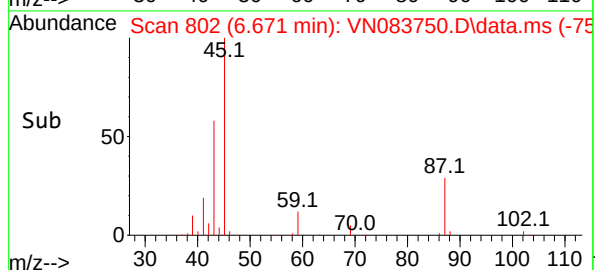
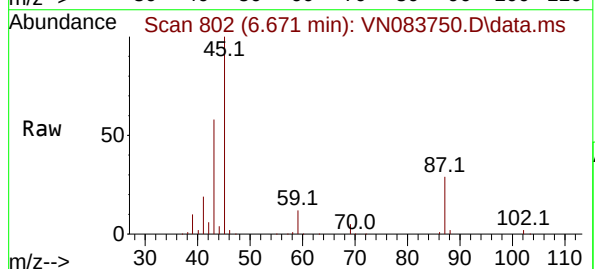
Manual Integrations
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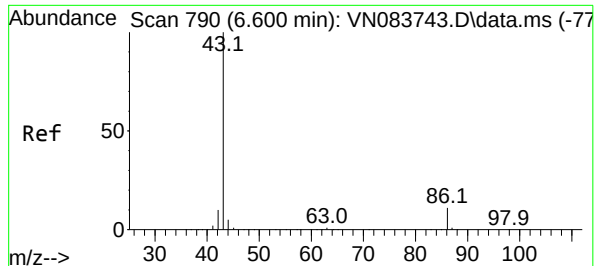
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#22
Diisopropyl ether
Concen: 51.404 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 45 Resp: 339994
Ion Ratio Lower Upper
45 100
43 57.5 43.4 65.0
87 29.2 22.6 33.8
59 11.6 9.1 13.7





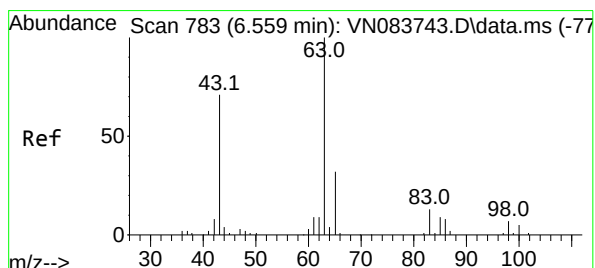
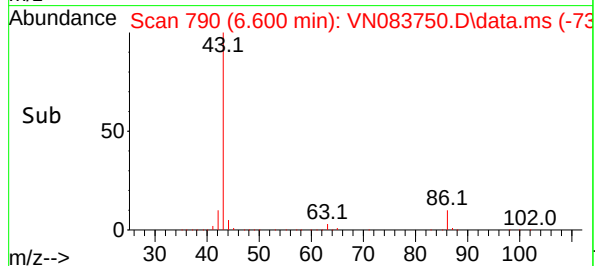
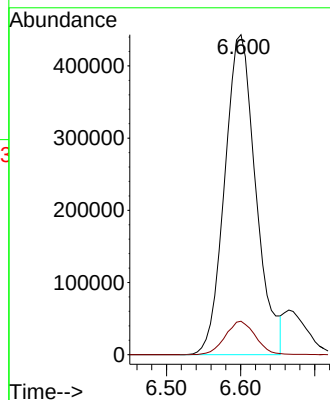
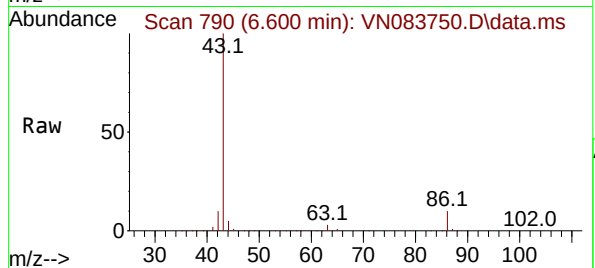
#23
Vinyl Acetate
Concen: 267.118 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Tgt Ion: 43 Resp: 129382
Ion Ratio Lower Upper
43 100
86 10.4 8.7 13.1

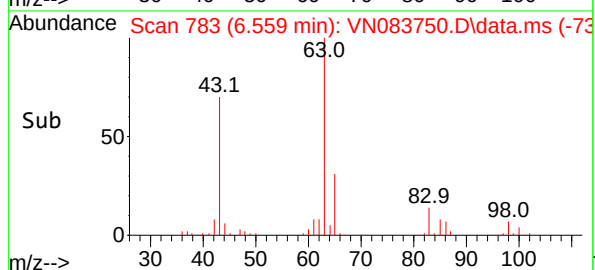
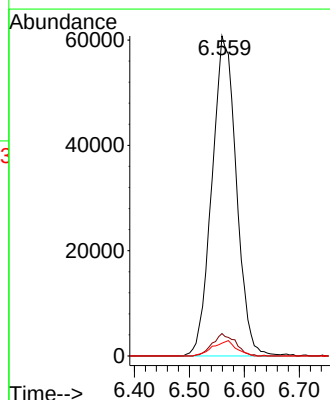
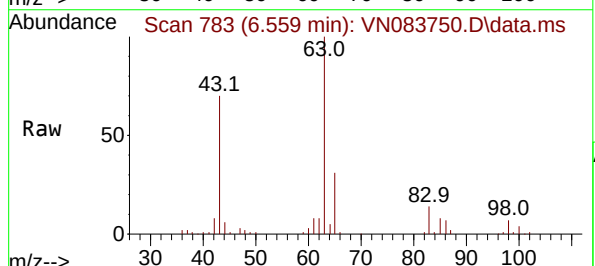
Manual Integrations
APPROVED

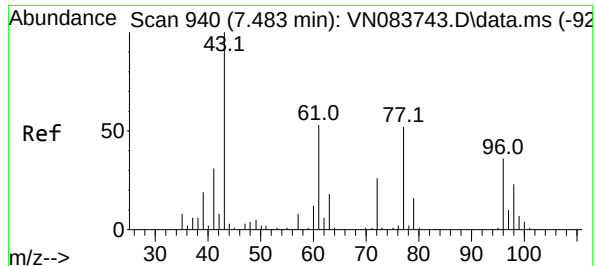
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#24
1,1-Dichloroethane
Concen: 49.262 ug/l
RT: 6.559 min Scan# 783
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

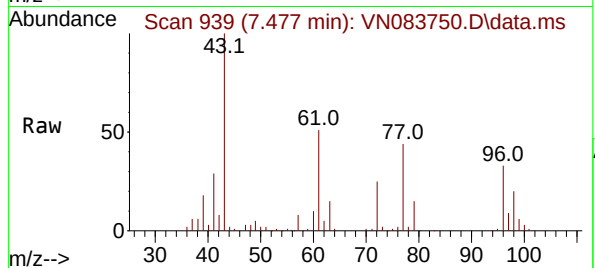
Tgt Ion: 63 Resp: 187715
Ion Ratio Lower Upper
63 100
98 7.0 3.5 10.4
100 4.0 2.5 7.5





#25
2-Butanone
Concen: 255.394 ug/l
RT: 7.477 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

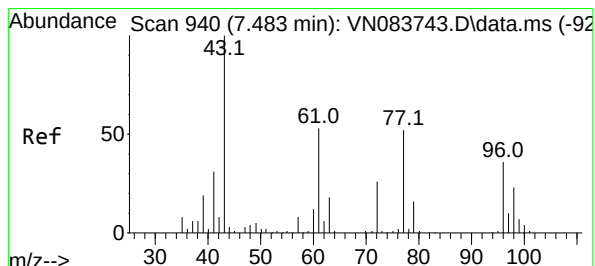
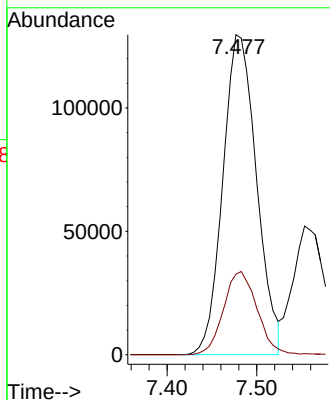
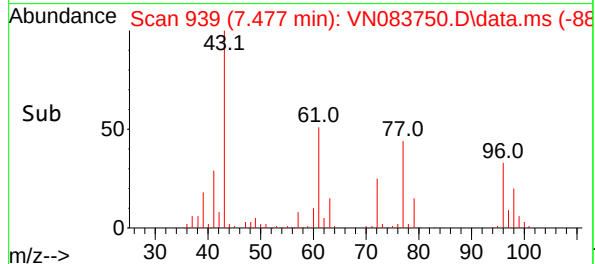
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024



Tgt Ion: 43 Resp: 33827
Ion Ratio Lower Upper
43 100
72 25.2 20.8 31.2

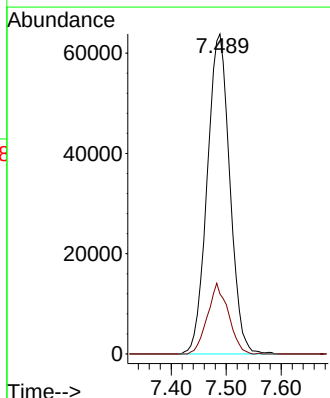
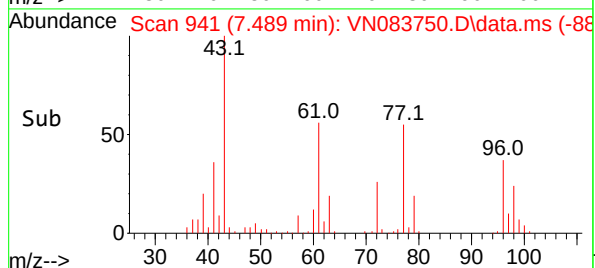
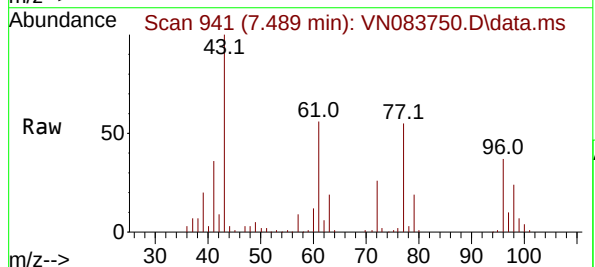
Manual Integrations
APPROVED

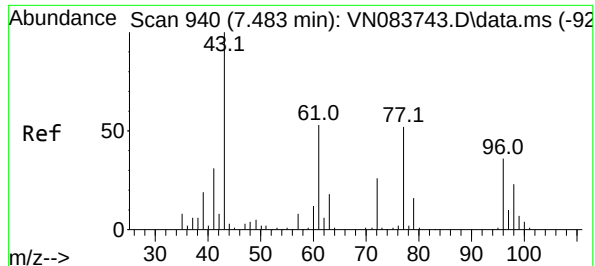
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#26
2,2-Dichloropropane
Concen: 51.834 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 77 Resp: 181899
Ion Ratio Lower Upper
77 100
97 20.5 10.2 30.4





#27

cis-1,2-Dichloroethene

Concen: 50.270 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

Tgt Ion: 96 Resp: 11532

Ion Ratio Lower Upper

96 100

61 157.0 0.0 306.2

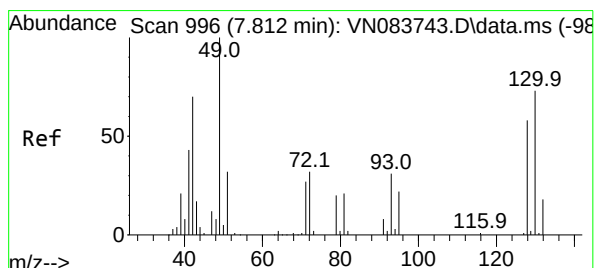
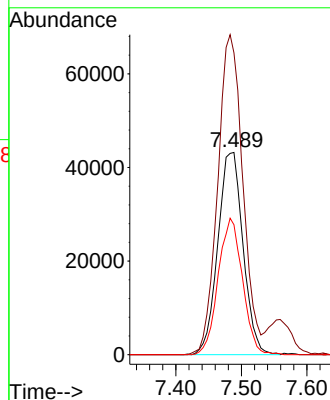
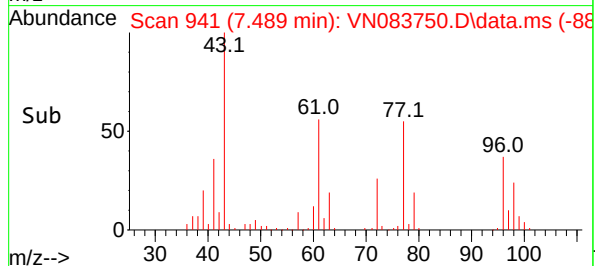
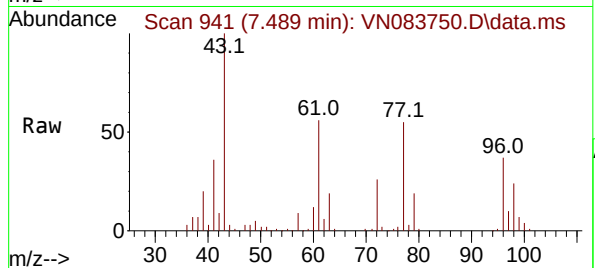
98 65.0 0.0 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#28

Bromochloromethane

Concen: 52.080 ug/l

RT: 7.806 min Scan# 995

Delta R.T. -0.006 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

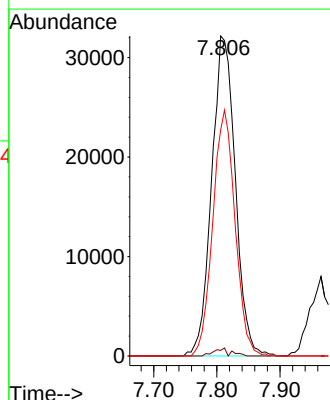
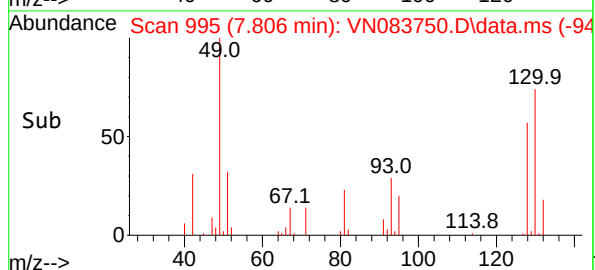
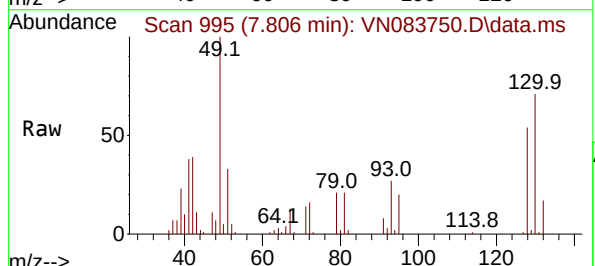
Tgt Ion: 49 Resp: 83573

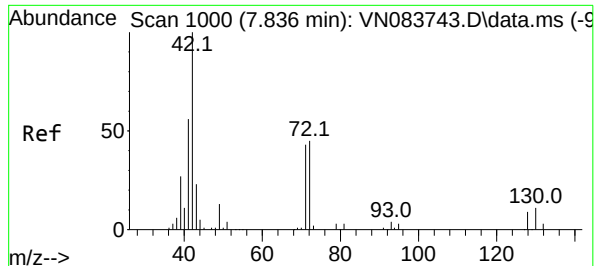
Ion Ratio Lower Upper

49 100

129 1.2 0.0 3.4

130 72.5 60.2 90.2





#29

Tetrahydrofuran

Concen: 260.627 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

Tgt Ion: 42 Resp: 20411

Ion Ratio Lower Upper

42 100

72 44.2 35.9 53.9

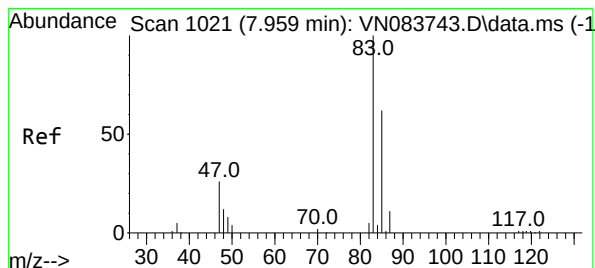
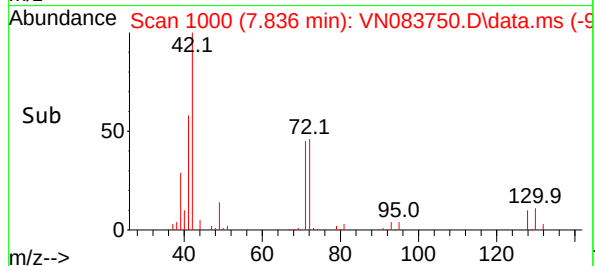
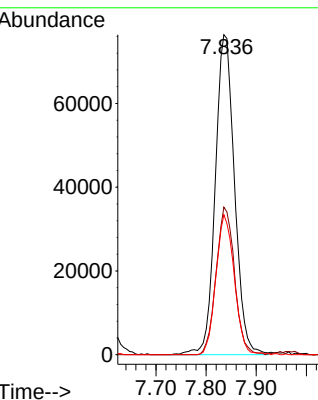
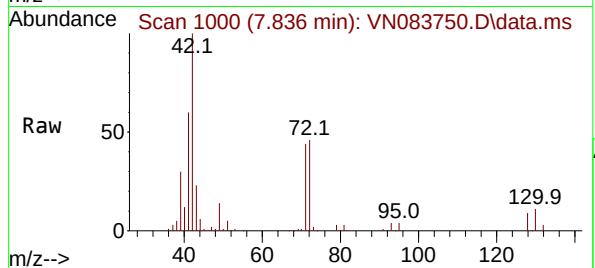
71 41.7 33.9 50.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#30

Chloroform

Concen: 50.138 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN083750.D

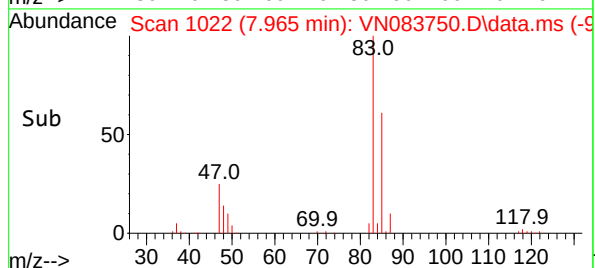
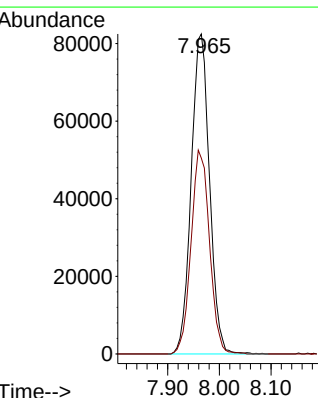
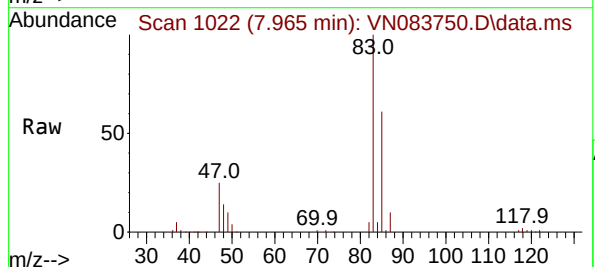
Acq: 10 Sep 2024 13:36

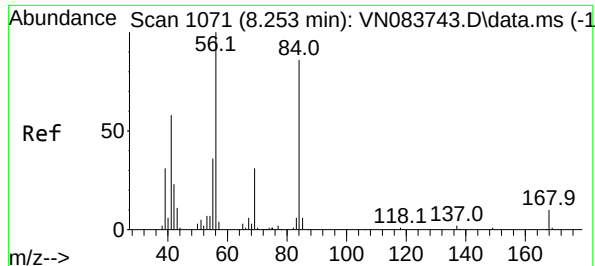
Tgt Ion: 83 Resp: 202830

Ion Ratio Lower Upper

83 100

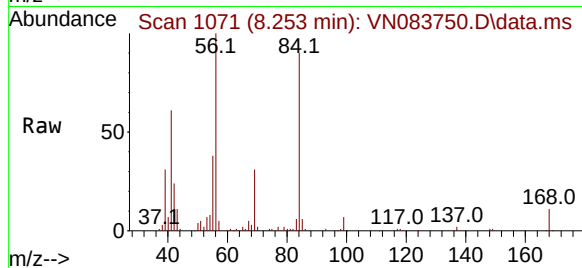
85 61.2 52.8 79.2





#31
Cyclohexane
Concen: 47.623 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

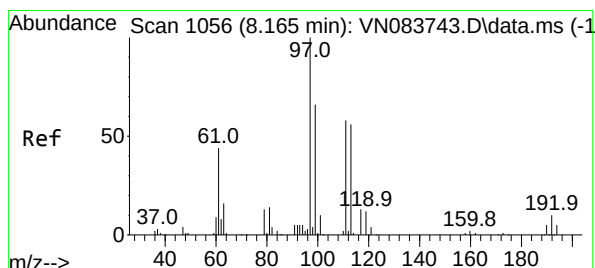
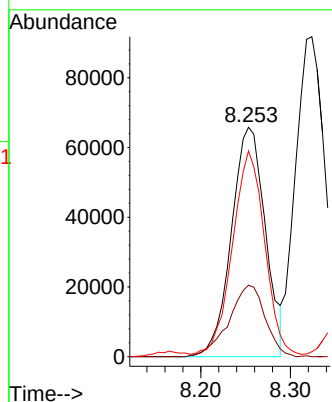
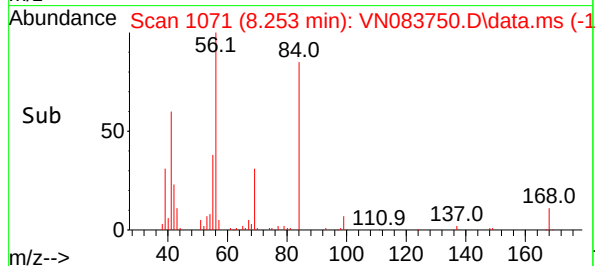
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024



Tgt Ion: 56 Resp: 17302
Ion Ratio Lower Upper
56 100
69 31.2 26.9 40.3
84 88.2 69.2 103.8

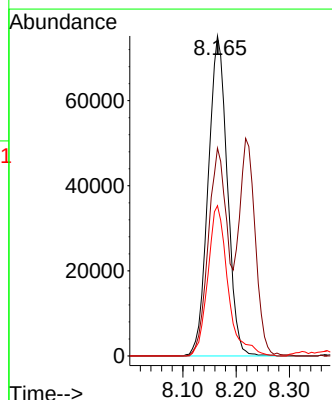
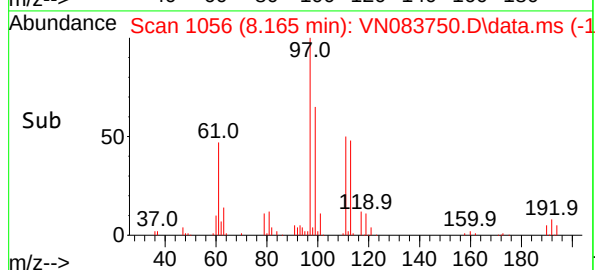
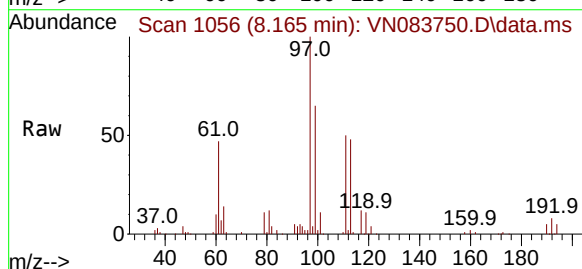
Manual Integrations
APPROVED

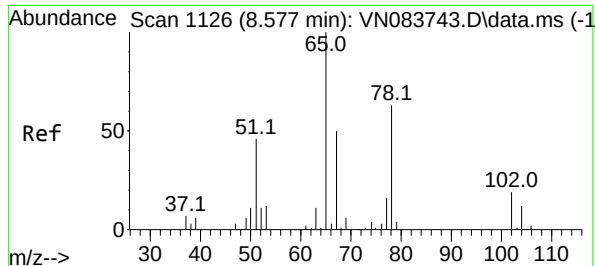
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#32
1,1,1-Trichloroethane
Concen: 50.318 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 97 Resp: 187174
Ion Ratio Lower Upper
97 100
99 65.6 52.3 78.5
61 49.5 38.2 57.2





#33

1,2-Dichloroethane-d4

Concen: 49.116 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

Tgt Ion: 65 Resp: 123469

Ion Ratio Lower Upper

65 100

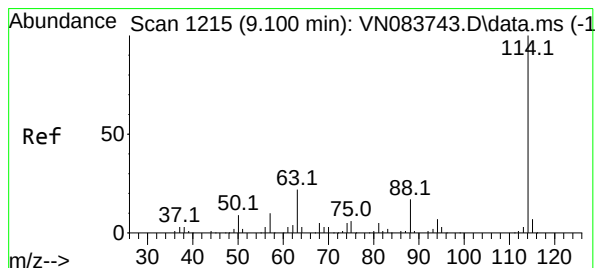
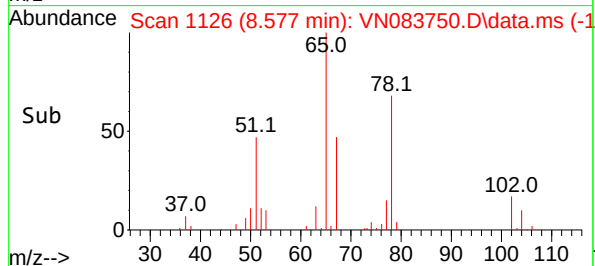
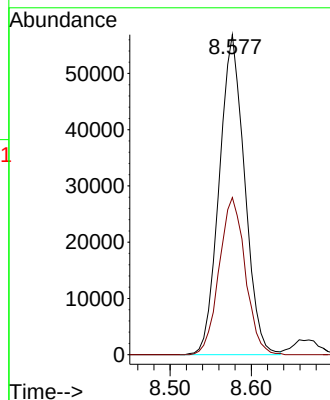
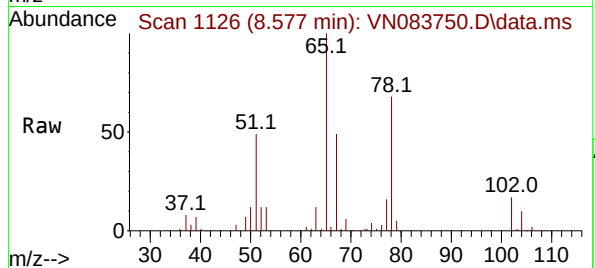
67 50.4 0.0 100.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

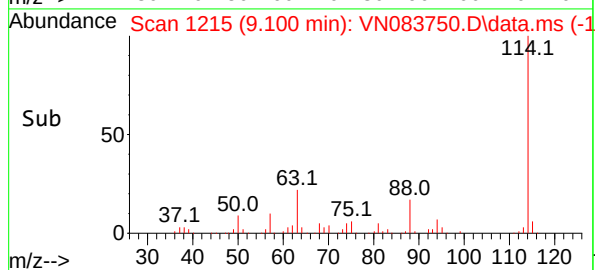
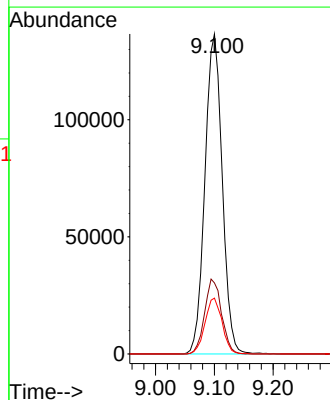
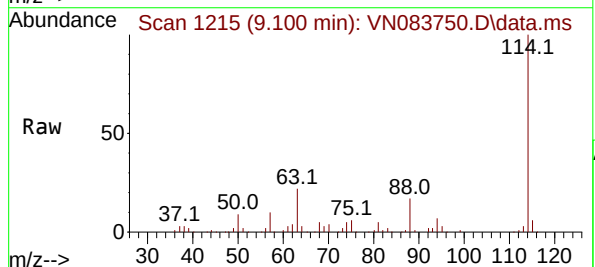
Tgt Ion:114 Resp: 279593

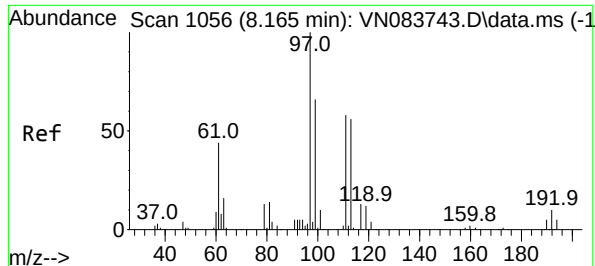
Ion Ratio Lower Upper

114 100

63 22.2 0.0 43.4

88 17.4 0.0 32.6





#35

Dibromofluoromethane

Concen: 49.858 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

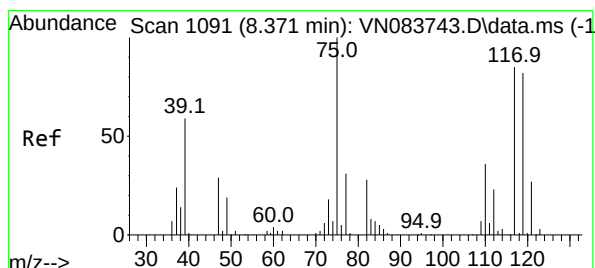
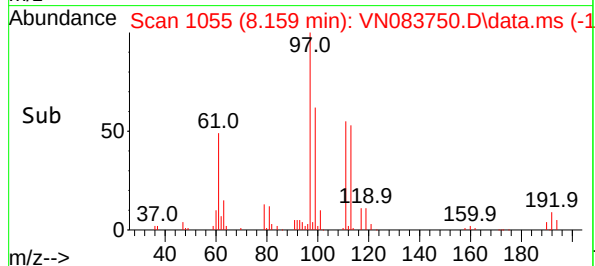
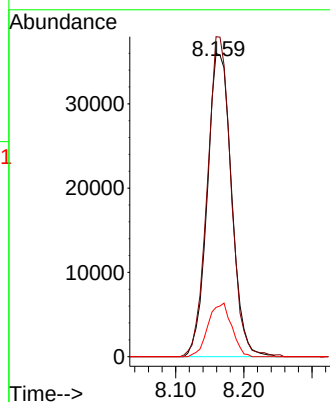
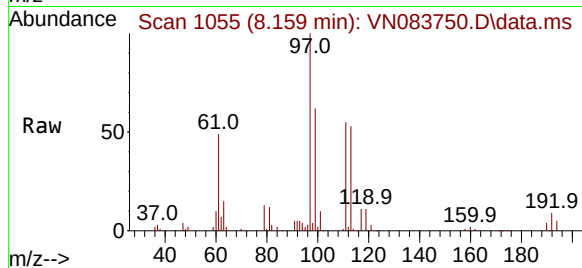
Tgt Ion:	113	Resp:	8924
Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.6	124.0
192	17.1	14.3	21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#36

1,1-Dichloropropene

Concen: 51.650 ug/l

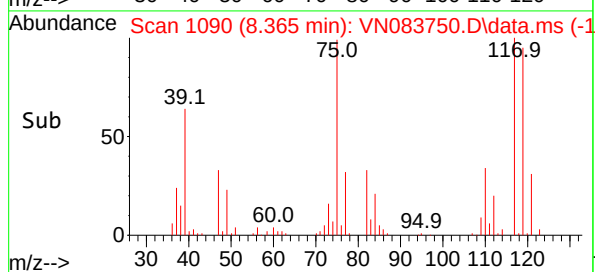
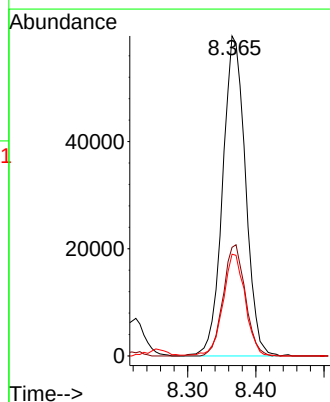
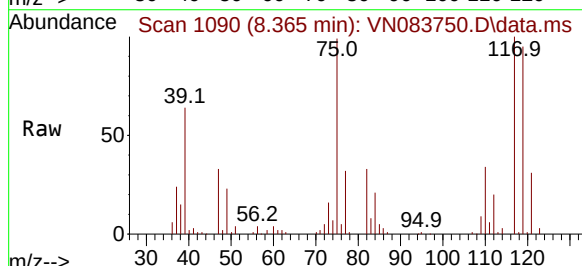
RT: 8.365 min Scan# 1090

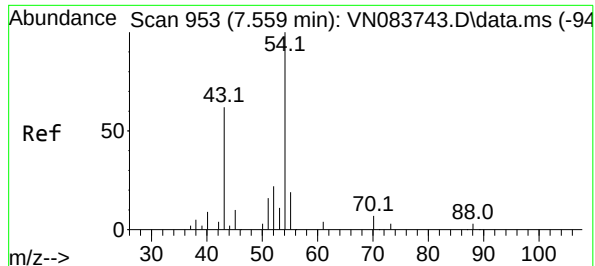
Delta R.T. -0.006 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Tgt Ion:	75	Resp:	139150
Ion	Ratio	Lower	Upper
75	100		
110	33.6	16.7	50.1
77	31.0	25.2	37.8





#37

Ethyl Acetate

Concen: 54.953 ug/l

RT: 7.553 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

Tgt Ion: 43 Resp: 13438

Ion Ratio Lower Upper

43 100

61 13.4 11.1 16.7

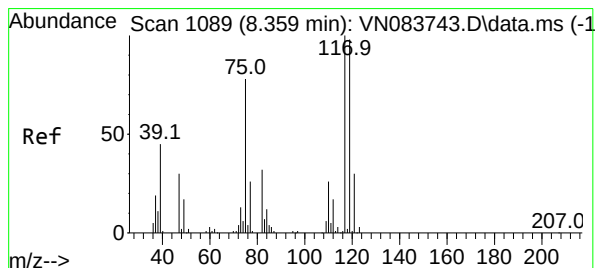
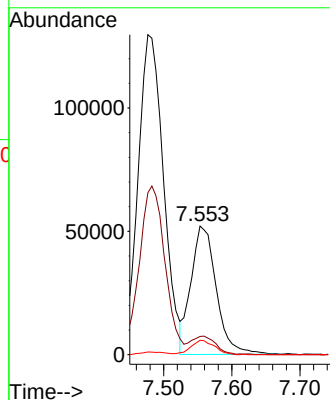
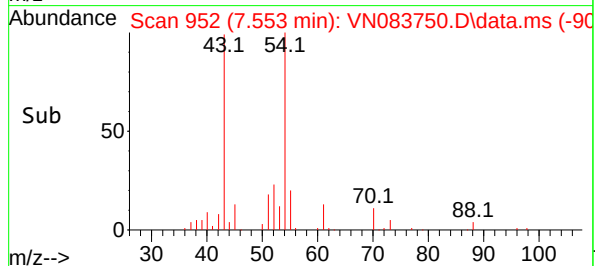
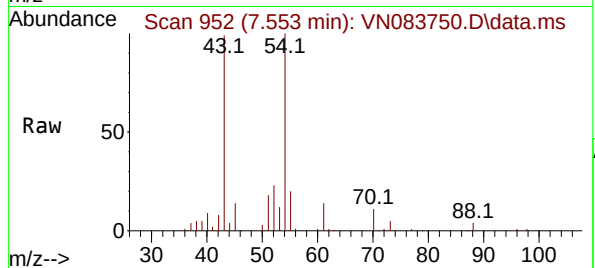
70 10.4 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#38

Carbon Tetrachloride

Concen: 53.514 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

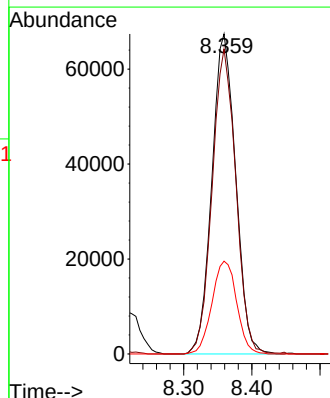
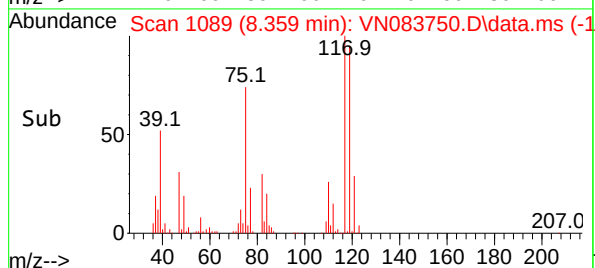
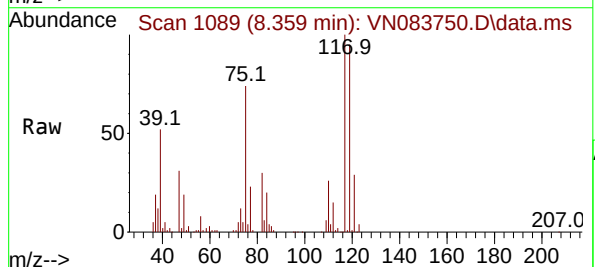
Tgt Ion:117 Resp: 163561

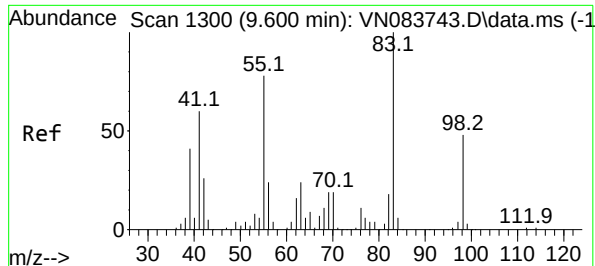
Ion Ratio Lower Upper

117 100

119 95.3 76.1 114.1

121 29.0 24.1 36.1





#39

Methylcyclohexane

Concen: 55.386 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

Tgt Ion: 83 Resp: 16984

Ion Ratio Lower Upper

83 100

55 75.8 62.2 93.4

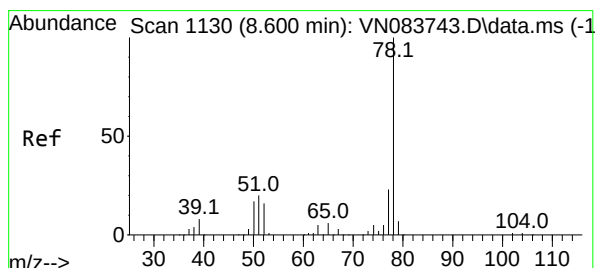
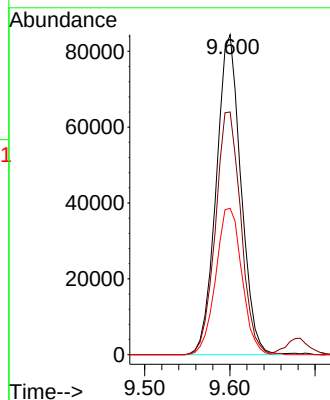
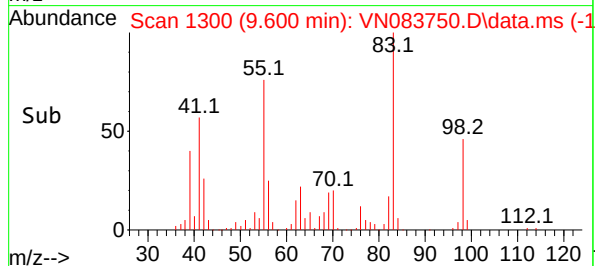
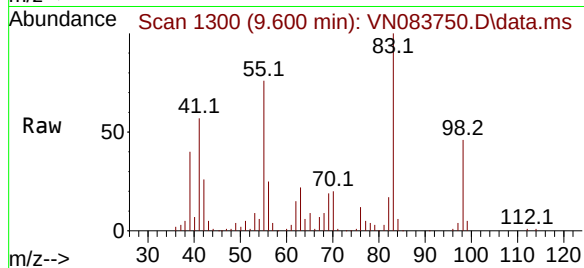
98 45.8 37.6 56.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#40

Benzene

Concen: 52.529 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN083750.D

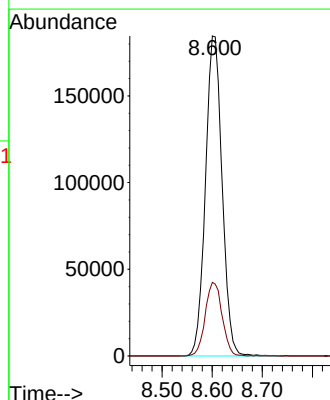
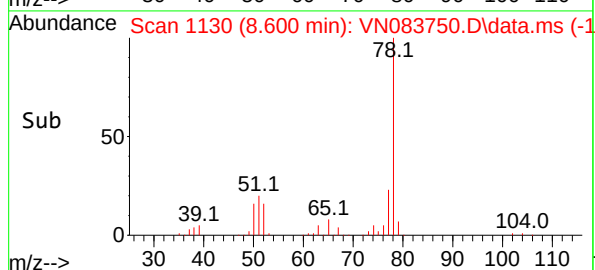
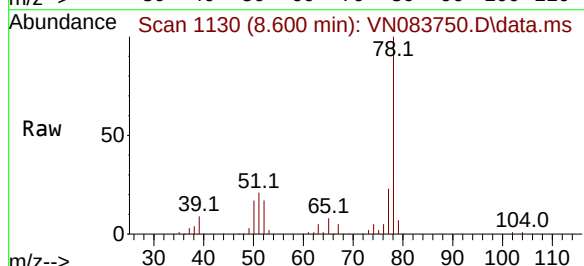
Acq: 10 Sep 2024 13:36

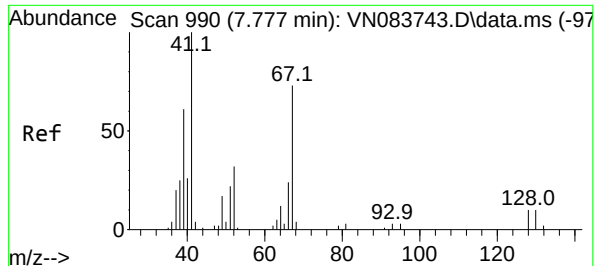
Tgt Ion: 78 Resp: 425950

Ion Ratio Lower Upper

78 100

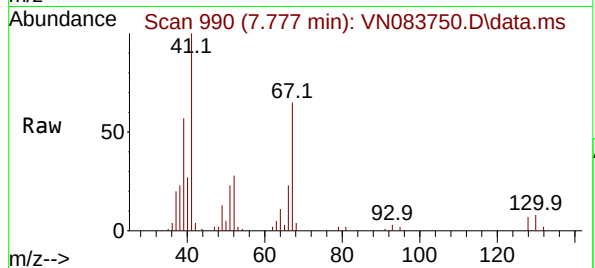
77 23.0 19.0 28.6





#41
Methacrylonitrile
Concen: 54.088 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

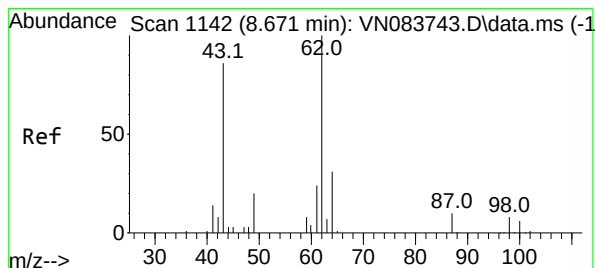
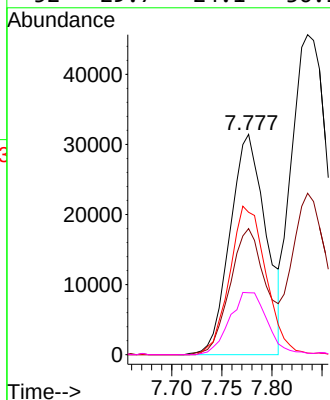
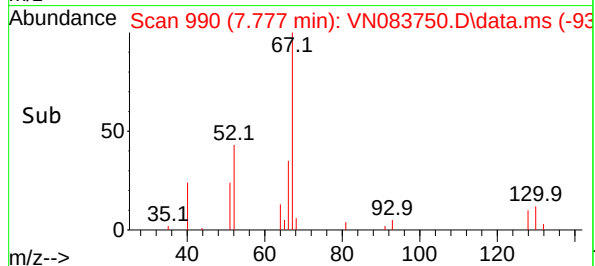
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024



Tgt Ion: 41 Resp: 78230
Ion Ratio Lower Upper
41 100
39 57.8 45.4 68.2
67 68.4 55.9 83.9
52 29.7 24.1 36.1

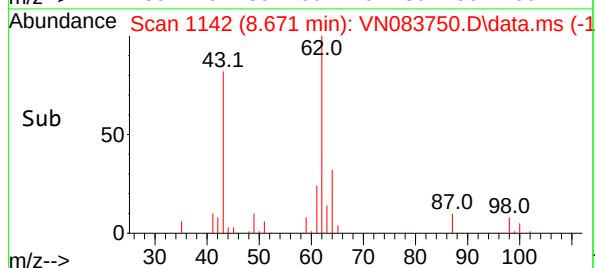
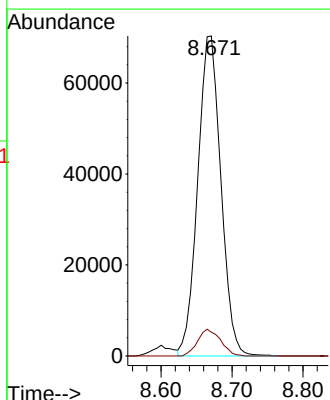
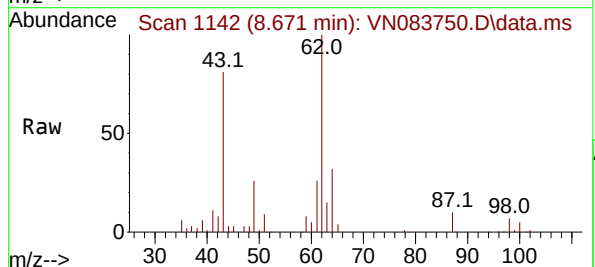
Manual Integrations
APPROVED

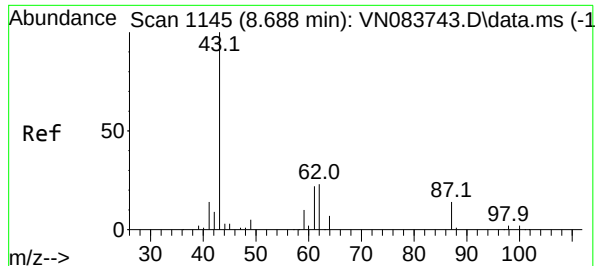
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#42
1,2-Dichloroethane
Concen: 52.791 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 62 Resp: 159957
Ion Ratio Lower Upper
62 100
98 8.3 0.0 16.6





#43

Isopropyl Acetate

Concen: 53.180 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

Tgt Ion: 43 Resp: 23566

Ion Ratio Lower Upper

43 100

61 26.2 19.4 29.0

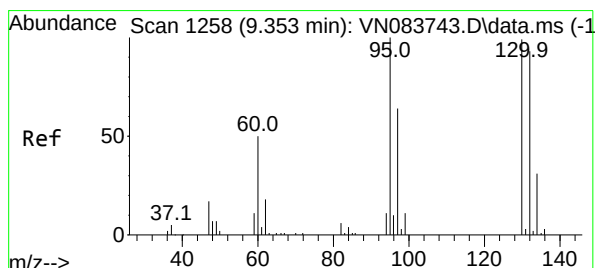
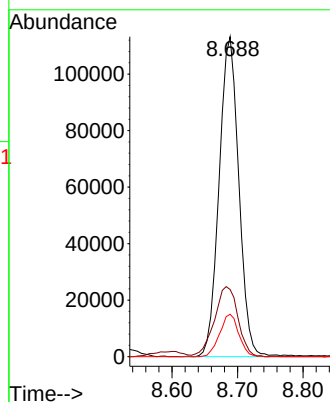
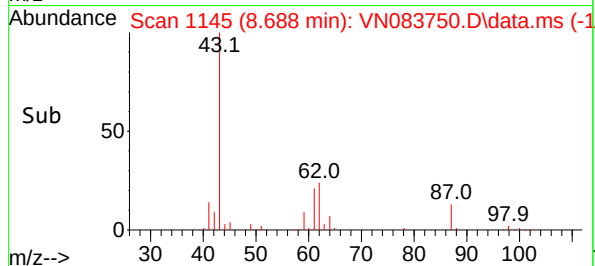
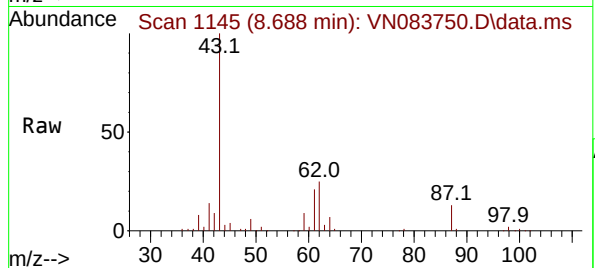
87 12.9 9.8 14.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#44

Trichloroethene

Concen: 52.111 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.006 min

Lab File: VN083750.D

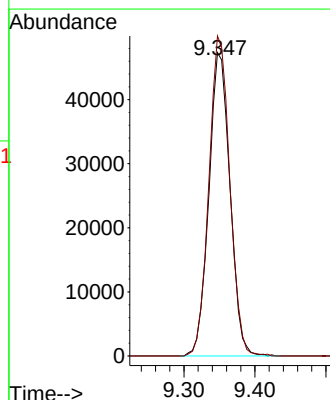
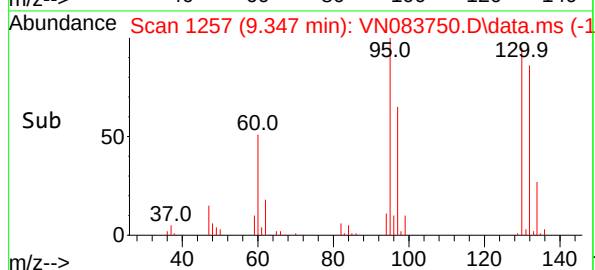
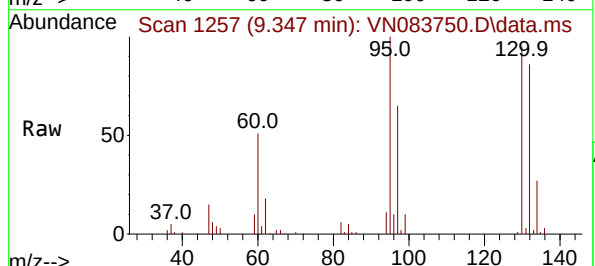
Acq: 10 Sep 2024 13:36

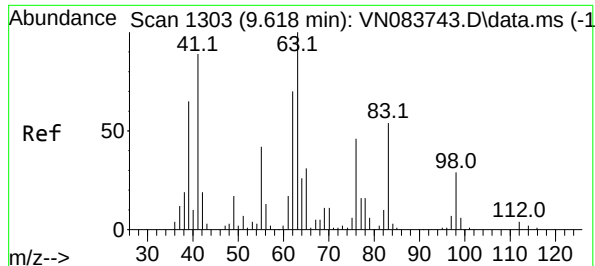
Tgt Ion:130 Resp: 97854

Ion Ratio Lower Upper

130 100

95 105.5 0.0 200.4





#45

1,2-Dichloropropane

Concen: 52.608 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

Tgt Ion: 63 Resp: 10310

Ion Ratio Lower Upper

63 100

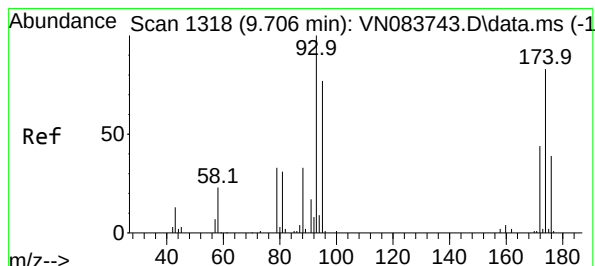
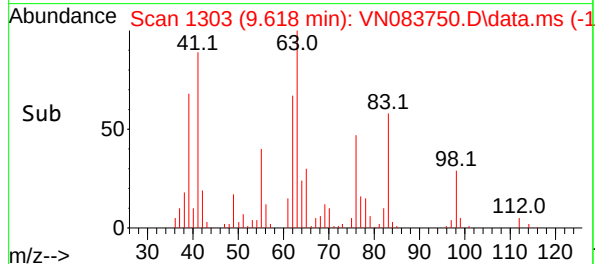
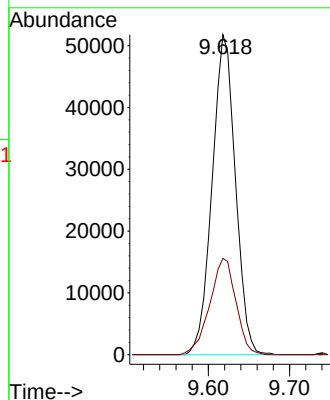
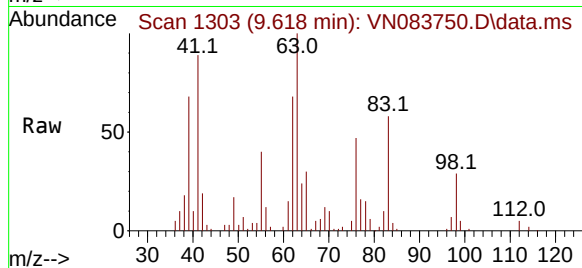
65 30.1 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#46

Dibromomethane

Concen: 53.838 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

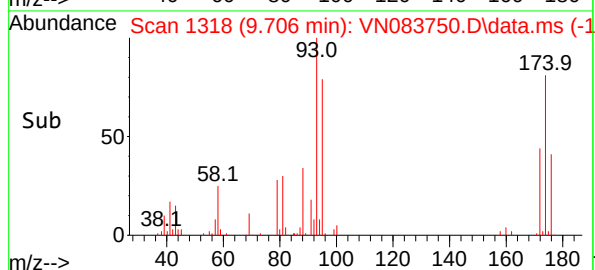
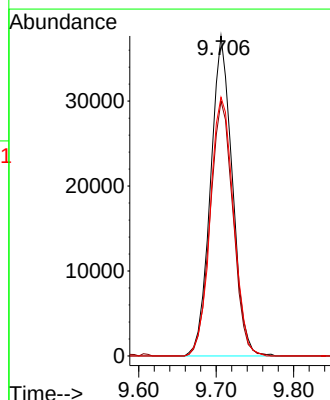
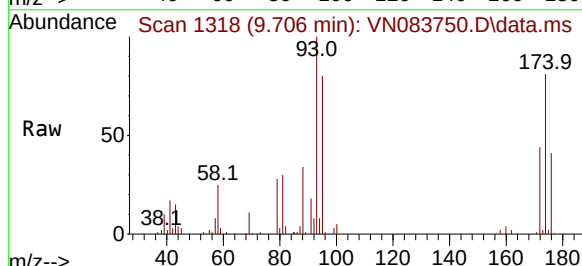
Tgt Ion: 93 Resp: 73906

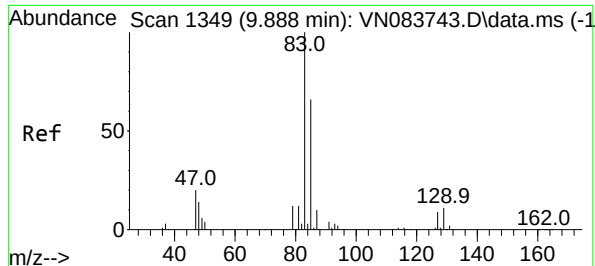
Ion Ratio Lower Upper

93 100

95 83.1 65.3 97.9

174 86.2 71.0 106.4





#47

Bromodichloromethane

Concen: 53.018 ug/l

RT: 9.883 min Scan# 1349

Delta R.T. -0.006 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

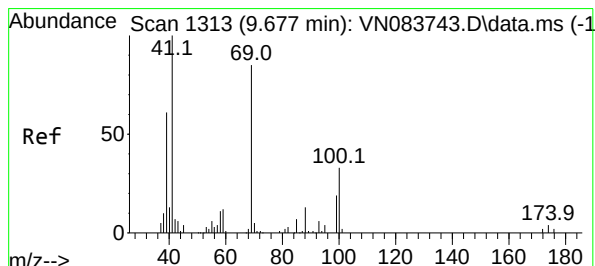
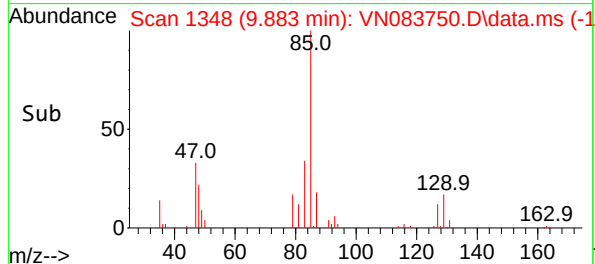
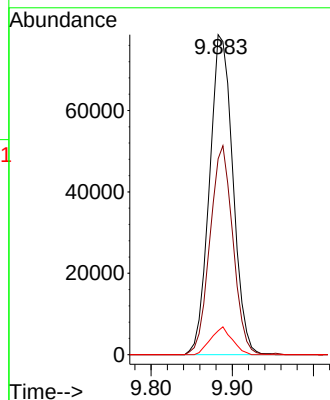
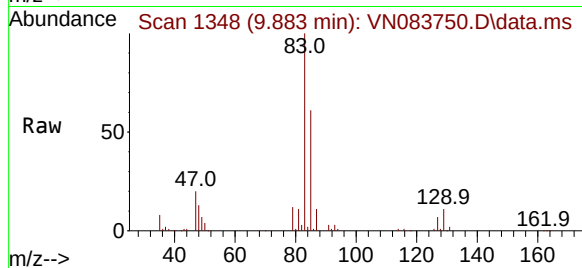
Tgt Ion:	83	Resp:	15751
Ion	Ratio	Lower	Upper
83	100		
85	61.2	51.8	77.8
127	7.4	6.6	9.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#48

Methyl methacrylate

Concen: 55.216 ug/l

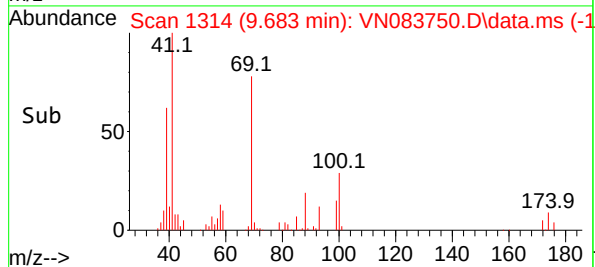
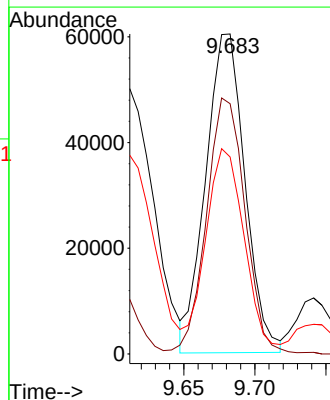
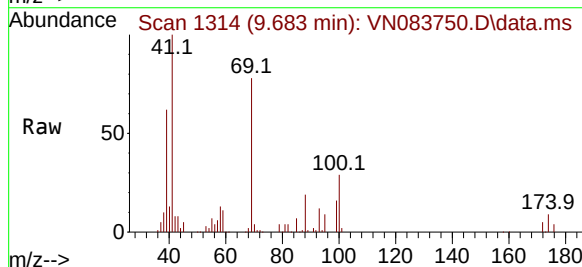
RT: 9.683 min Scan# 1314

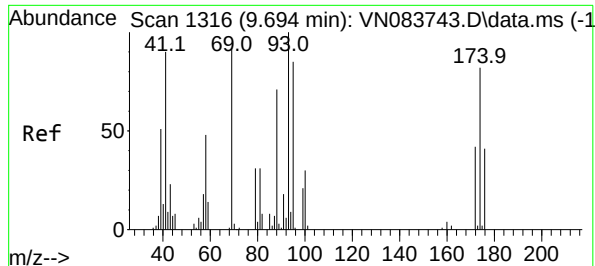
Delta R.T. 0.006 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Tgt Ion:	41	Resp:	116089
Ion	Ratio	Lower	Upper
41	100		
69	79.2	64.3	96.5
39	64.1	48.9	73.3





#49

1,4-Dioxane

Concen: 1050.868 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

Tgt Ion: 88 Resp: 36340

Ion Ratio Lower Upper

88 100

43 29.0 0.0 0.0

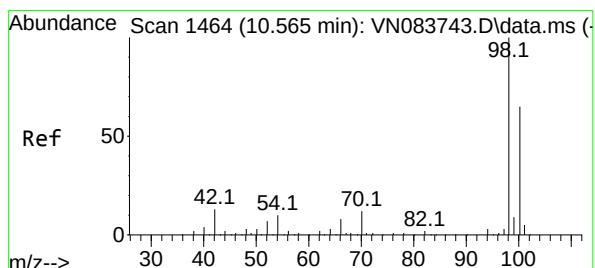
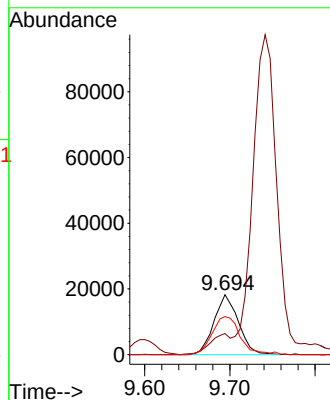
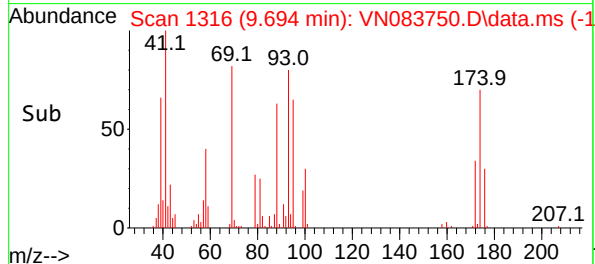
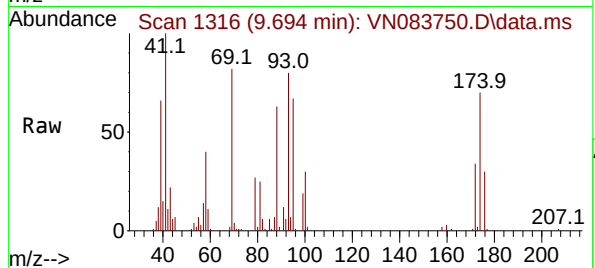
58 73.3 57.1 85.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#50

Toluene-d8

Concen: 52.850 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN083750.D

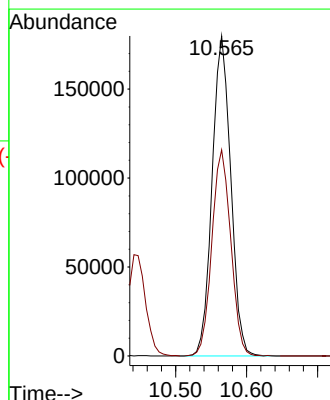
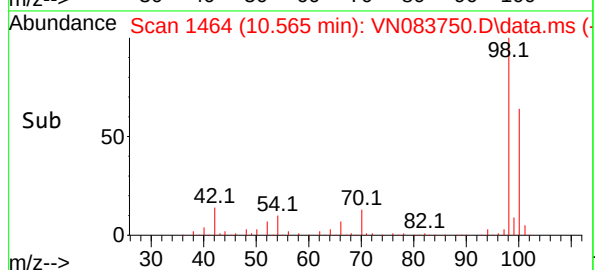
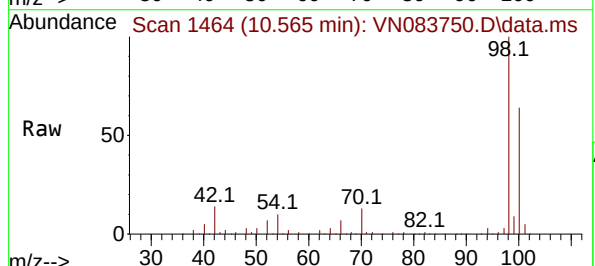
Acq: 10 Sep 2024 13:36

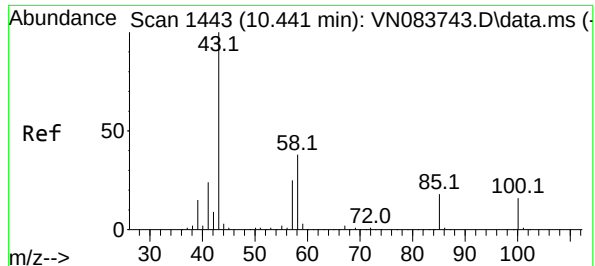
Tgt Ion: 98 Resp: 327030

Ion Ratio Lower Upper

98 100

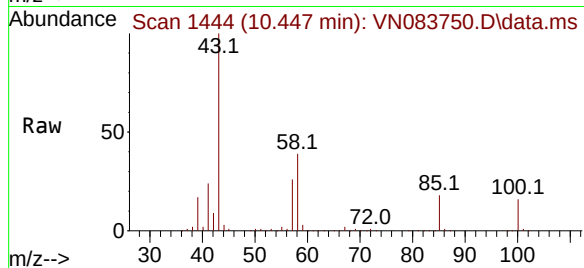
100 65.5 52.0 78.0





#51
4-Methyl-2-Pentanone
Concen: 272.839 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

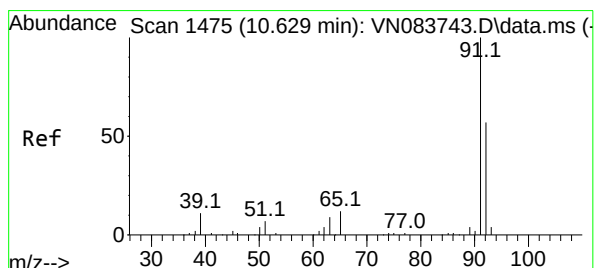
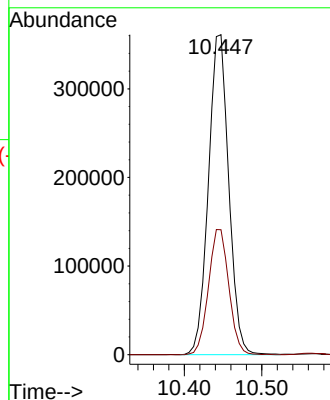
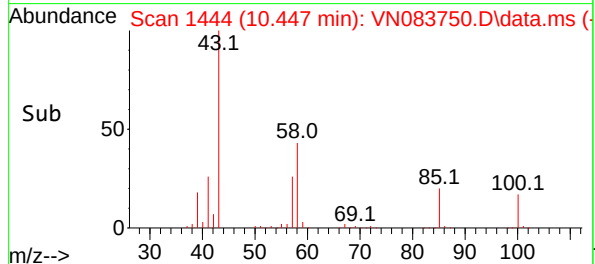
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024



Tgt Ion: 43 Resp: 658160
Ion Ratio Lower Upper
43 100
58 39.1 31.6 47.4

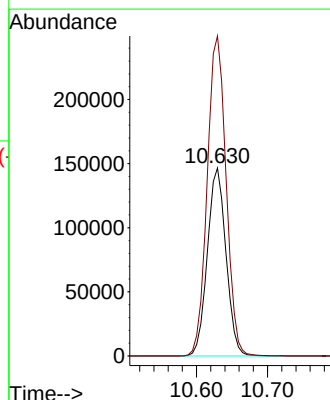
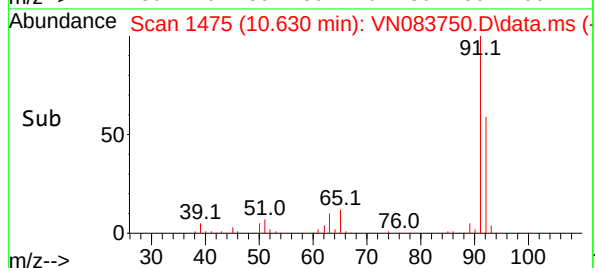
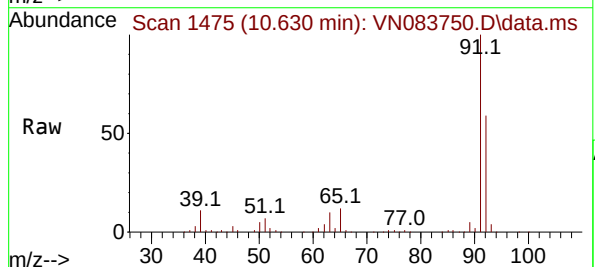
Manual Integrations
APPROVED

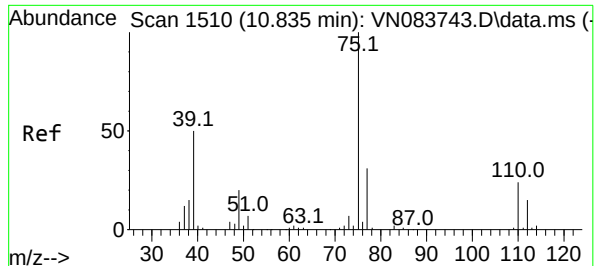
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#52
Toluene
Concen: 53.732 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

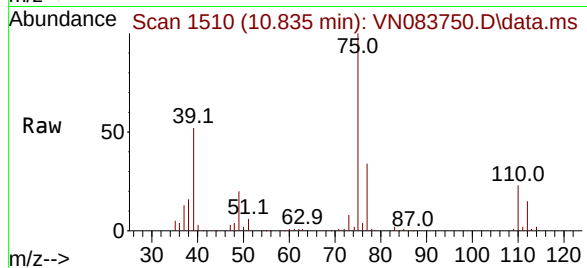
Tgt Ion: 92 Resp: 266506
Ion Ratio Lower Upper
92 100
91 173.0 134.7 202.1





#53
t-1,3-Dichloropropene
Concen: 55.091 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

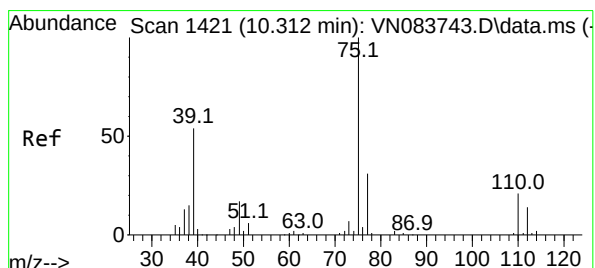
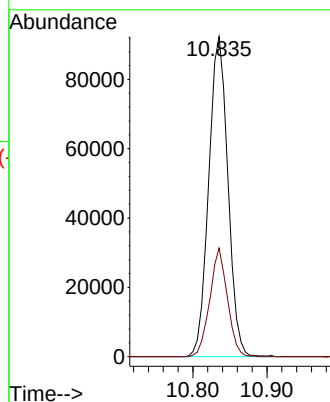
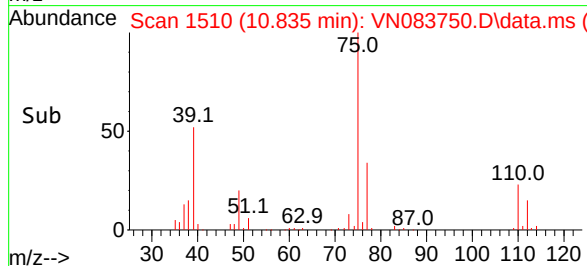
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024



Tgt Ion: 75 Resp: 16590
Ion Ratio Lower Upper
75 100
77 33.9 25.8 38.6

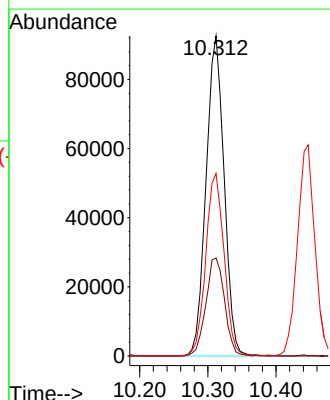
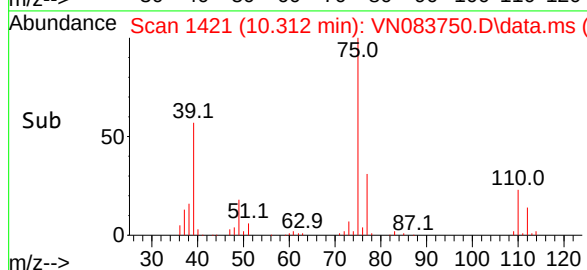
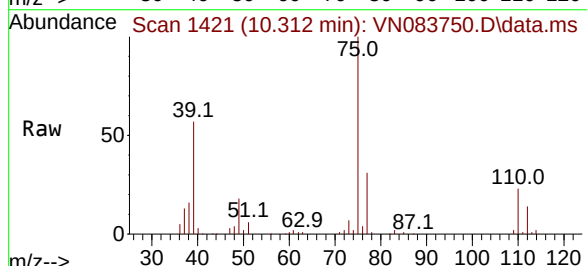
Manual Integrations
APPROVED

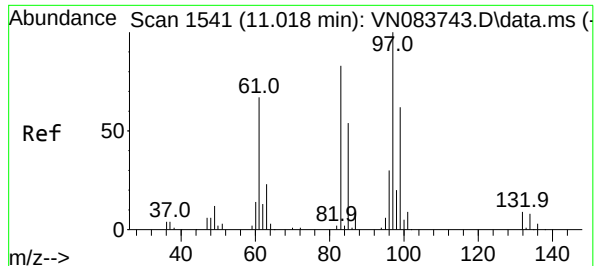
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#54
cis-1,3-Dichloropropene
Concen: 53.937 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

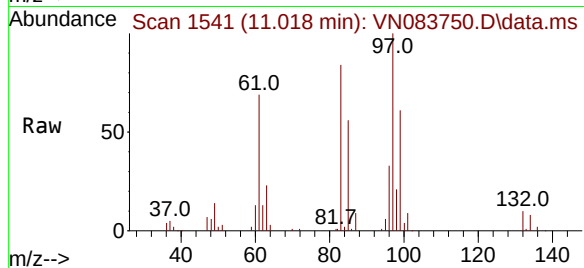
Tgt Ion: 75 Resp: 170616
Ion Ratio Lower Upper
75 100
77 30.6 25.0 37.6
39 57.0 42.6 64.0





#55
1,1,2-Trichloroethane
Concen: 53.075 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

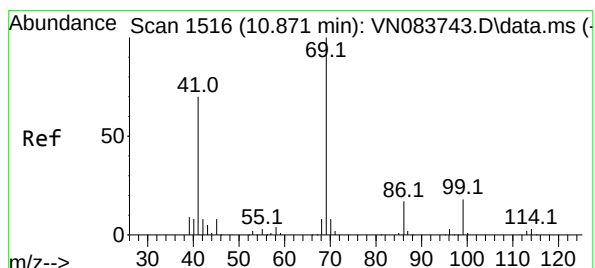
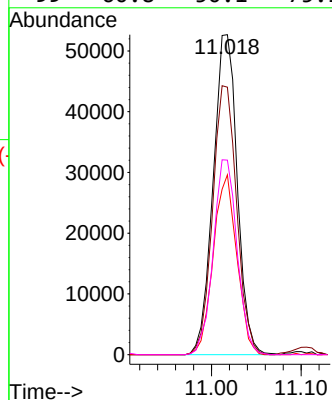
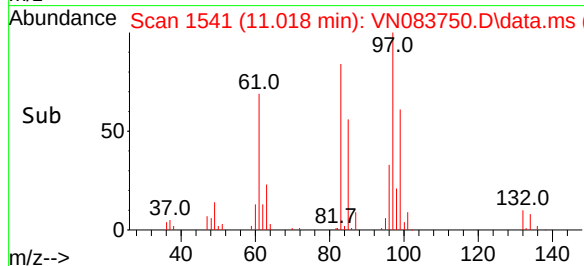
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024



Tgt Ion: 97 Resp: 98280
Ion Ratio Lower Upper
97 100
83 83.6 67.5 101.3
85 56.2 44.2 66.2
99 60.8 50.1 75.1

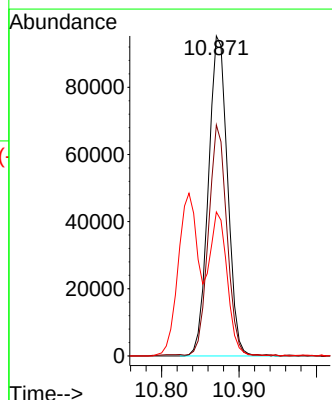
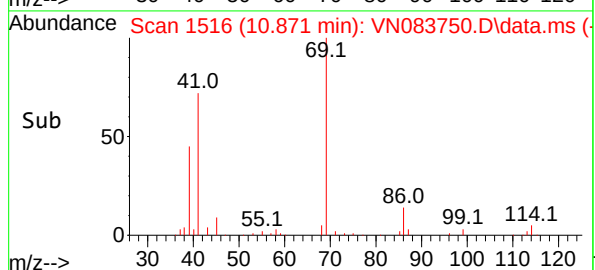
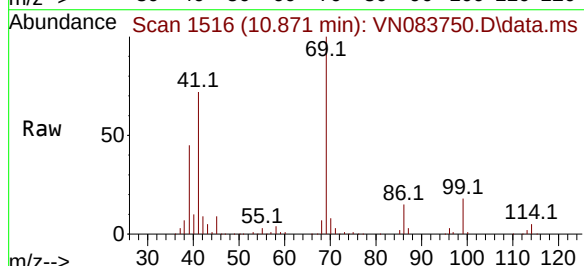
Manual Integrations
APPROVED

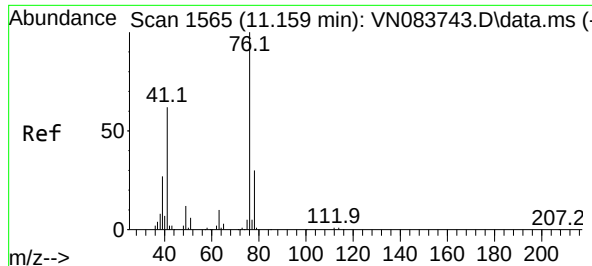
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#56
Ethyl methacrylate
Concen: 57.314 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 69 Resp: 163284
Ion Ratio Lower Upper
69 100
41 68.9 53.9 80.9
39 42.2 32.6 48.8





#57

1,3-Dichloropropane

Concen: 53.152 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVNVN091024

Tgt Ion: 76 Resp: 16915

Ion Ratio Lower Upper

76 100

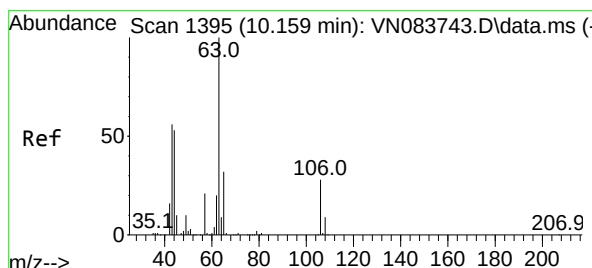
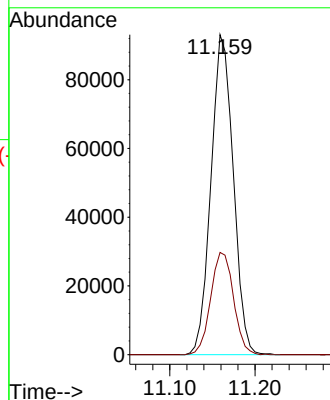
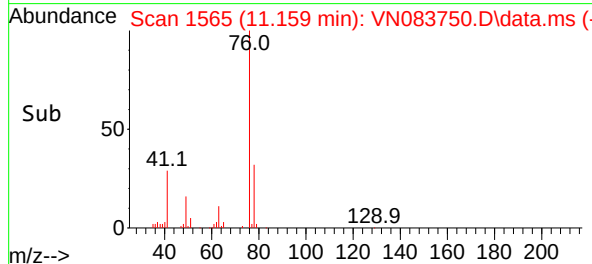
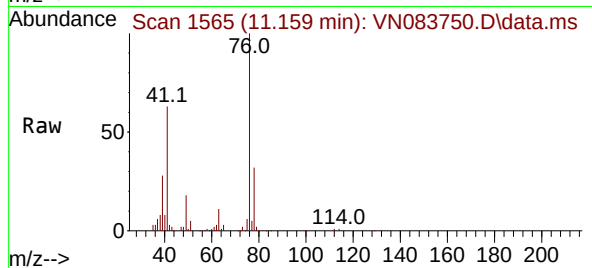
78 32.7 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#58

2-Chloroethyl Vinyl ether

Concen: 240.626 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN083750.D

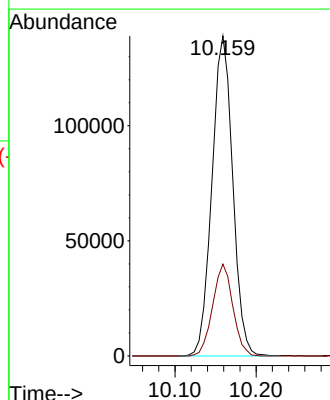
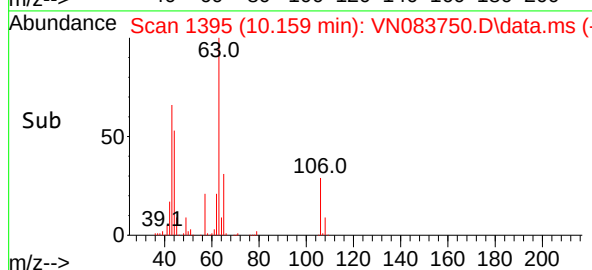
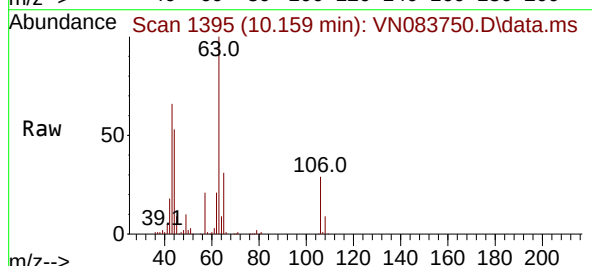
Acq: 10 Sep 2024 13:36

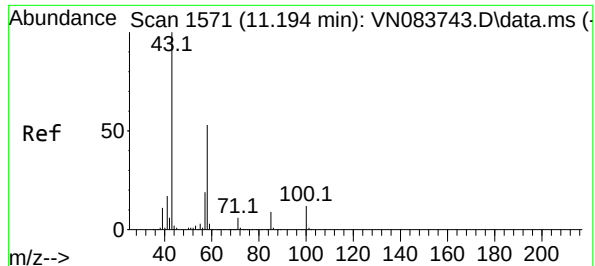
Tgt Ion: 63 Resp: 247009

Ion Ratio Lower Upper

63 100

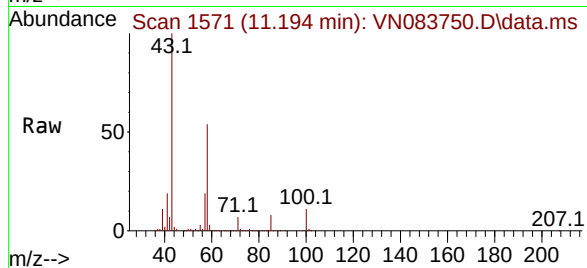
106 27.9 23.3 34.9





#59
2-Hexanone
Concen: 281.422 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

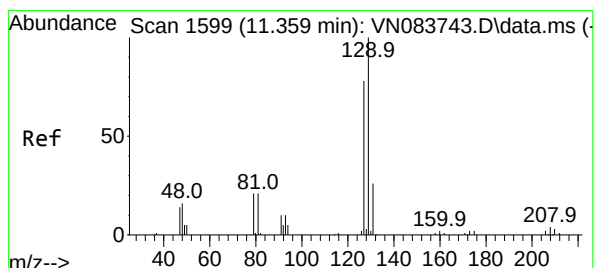
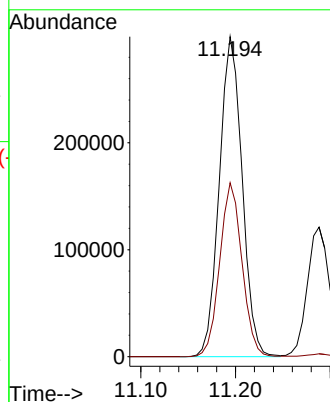
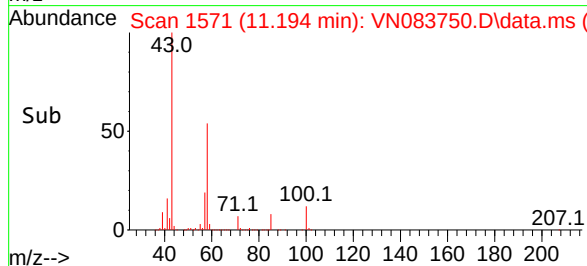
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024



Tgt Ion: 43 Resp: 50217
Ion Ratio Lower Upper
43 100
58 53.0 27.2 81.5

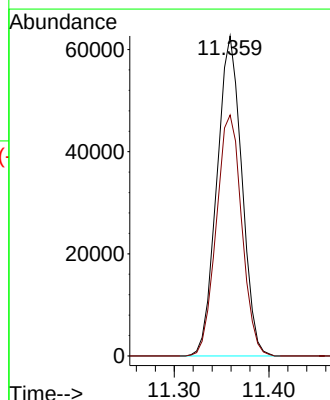
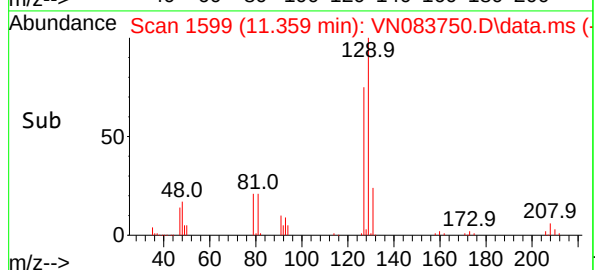
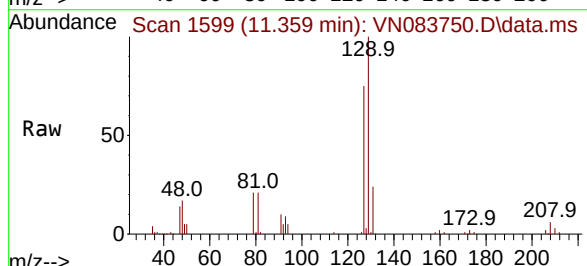
Manual Integrations
APPROVED

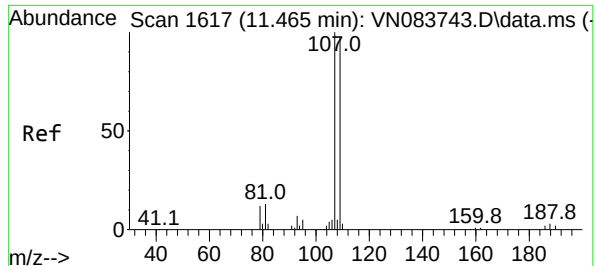
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#60
Dibromochloromethane
Concen: 55.330 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

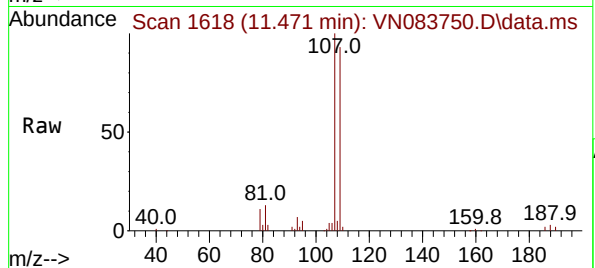
Tgt Ion:129 Resp: 114660
Ion Ratio Lower Upper
129 100
127 76.9 39.0 116.9





#61
1,2-Dibromoethane
Concen: 53.026 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

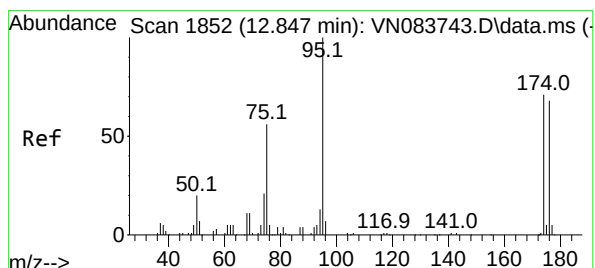
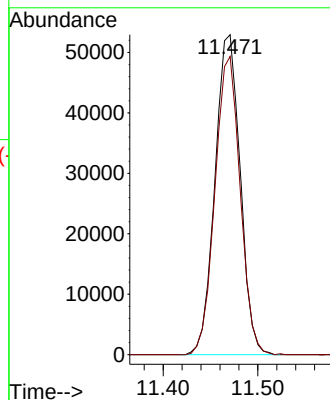
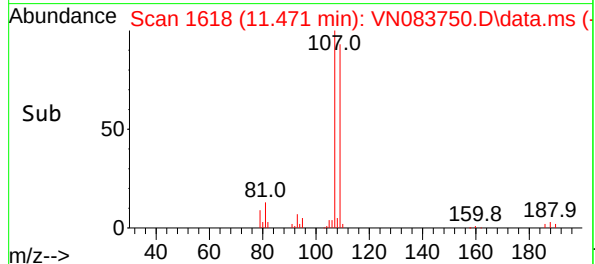
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024



Tgt Ion:107 Resp: 97924
Ion Ratio Lower Upper
107 100
109 93.3 75.6 113.4

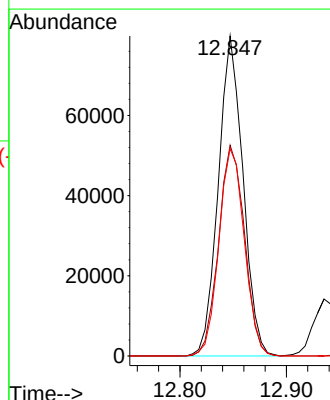
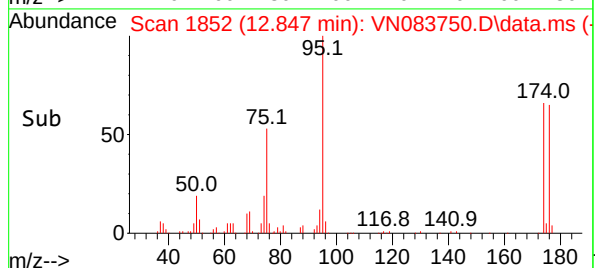
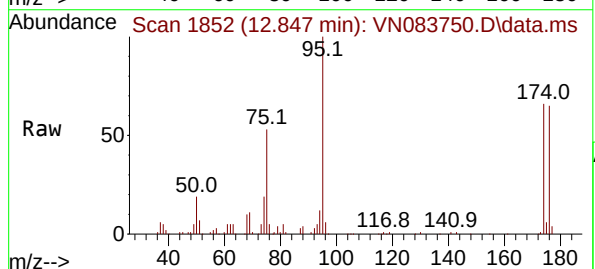
Manual Integrations
APPROVED

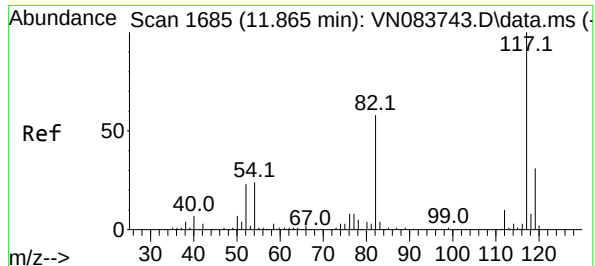
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#62
4-Bromofluorobenzene
Concen: 50.260 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 95 Resp: 128312
Ion Ratio Lower Upper
95 100
174 69.1 0.0 139.8
176 66.9 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083750.D

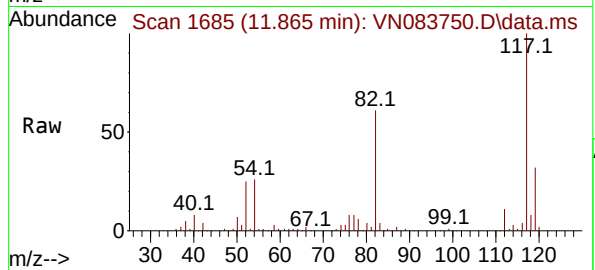
Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024



Tgt Ion:117 Resp: 251259

Ion Ratio Lower Upper

117 100

82 60.9 47.4 71.0

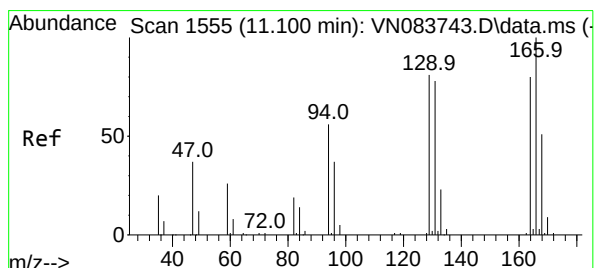
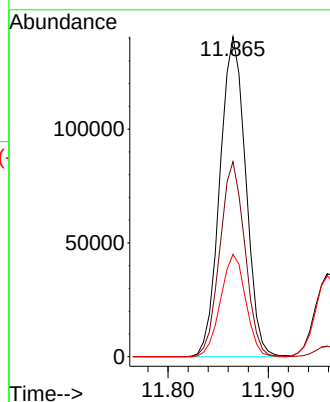
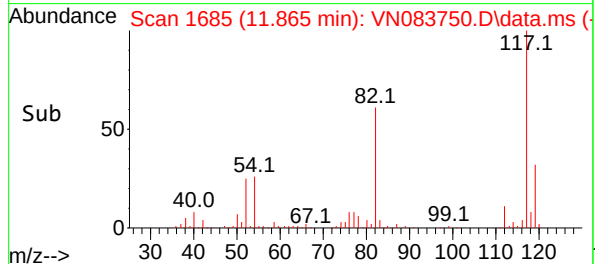
119 32.0 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#64

Tetrachloroethene

Concen: 49.891 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Tgt Ion:164 Resp: 83365

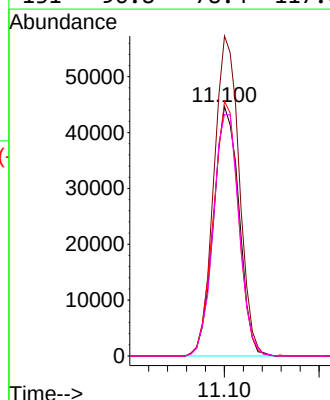
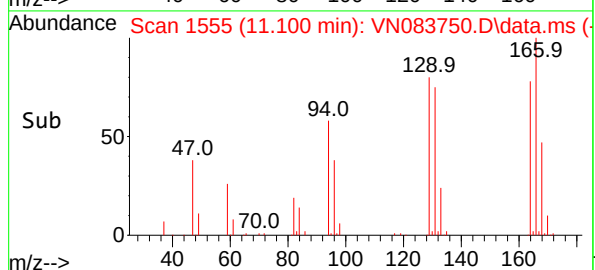
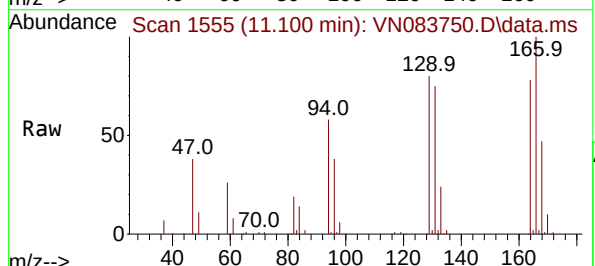
Ion Ratio Lower Upper

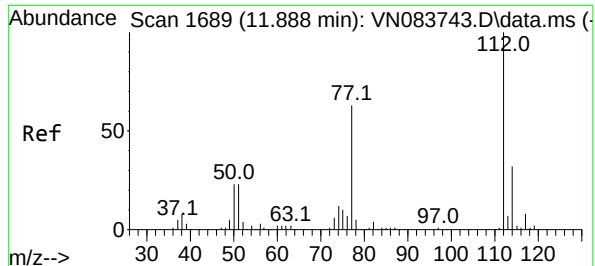
164 100

166 128.4 103.7 155.5

129 102.2 79.9 119.9

131 96.8 78.4 117.6





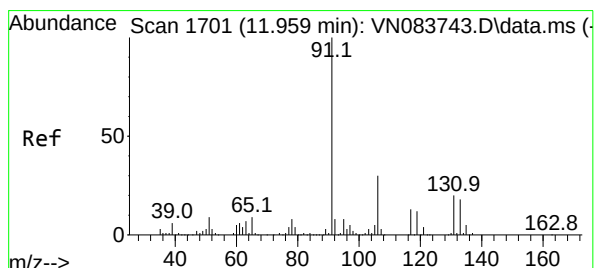
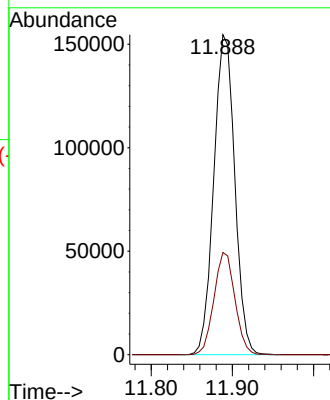
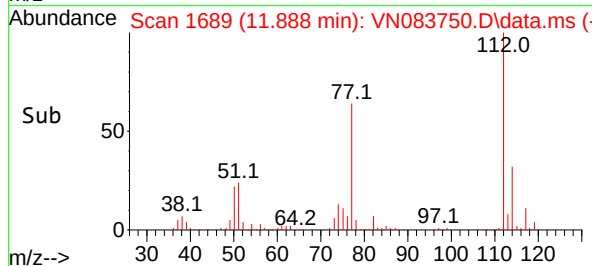
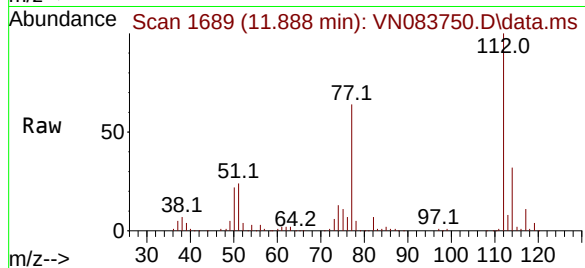
#65
Chlorobenzene
Concen: 49.726 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Tgt Ion:112 Resp: 277689
Ion Ratio Lower Upper
112 100
114 32.0 25.7 38.5

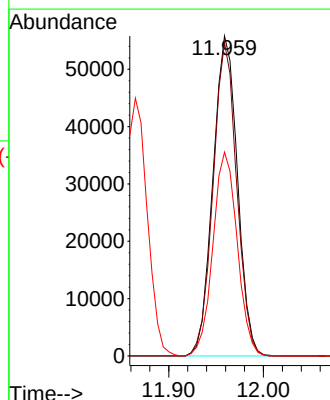
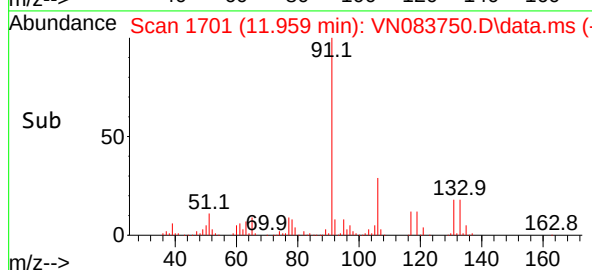
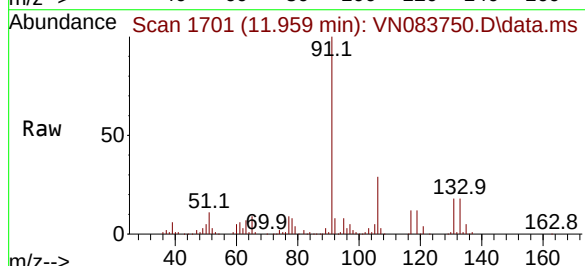
Manual Integrations
APPROVED

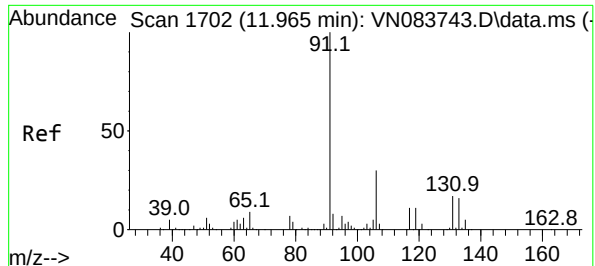
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 51.726 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:131 Resp: 100138
Ion Ratio Lower Upper
131 100
133 94.9 47.5 142.6
119 63.3 31.6 94.8





#67

Ethyl Benzene

Concen: 52.932 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICNVN091024

Tgt Ion: 91 Resp: 52509

Ion Ratio Lower Upper

91 100

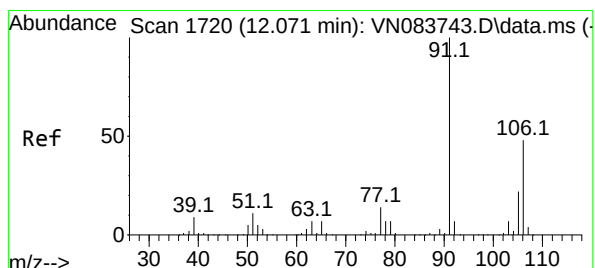
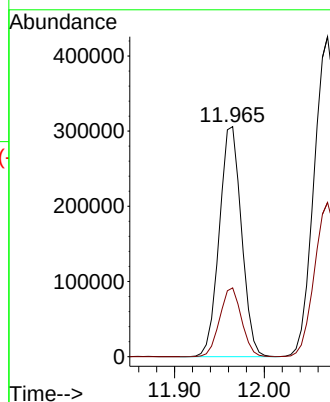
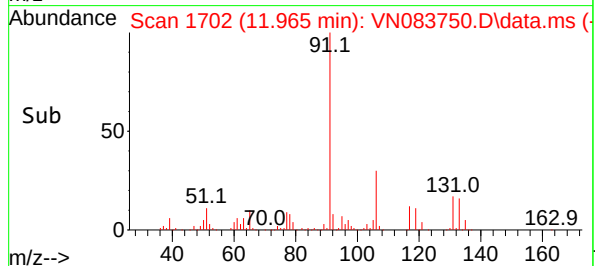
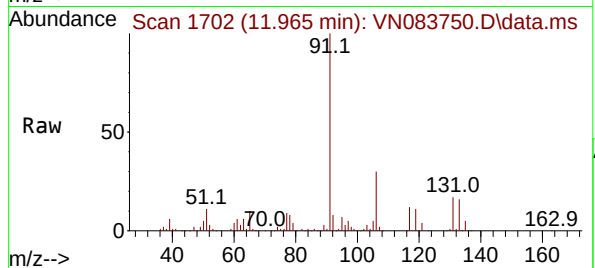
106 29.9 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#68

m/p-Xylenes

Concen: 106.586 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN083750.D

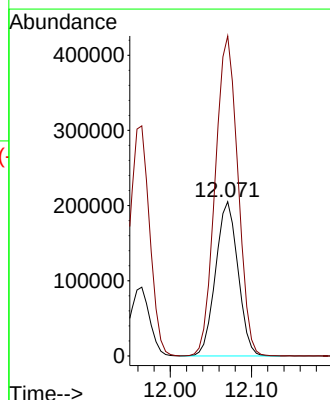
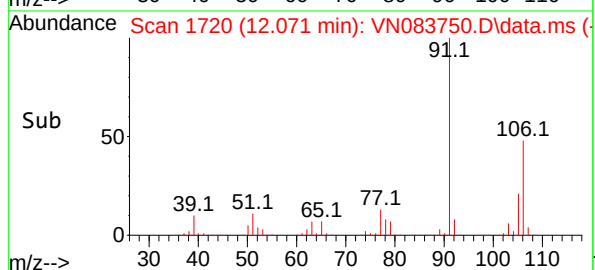
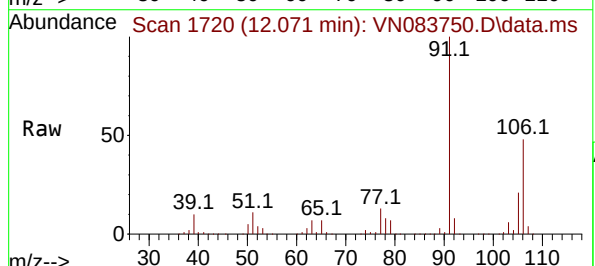
Acq: 10 Sep 2024 13:36

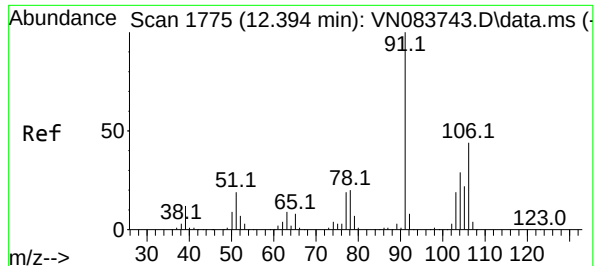
Tgt Ion:106 Resp: 392558

Ion Ratio Lower Upper

106 100

91 210.6 169.2 253.8





#69

o-Xylene

Concen: 53.308 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

Tgt Ion:106 Resp: 19006

Ion Ratio Lower Upper

106 100

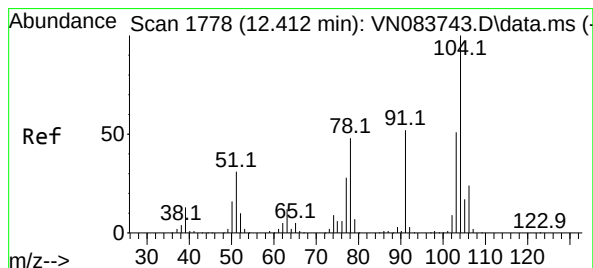
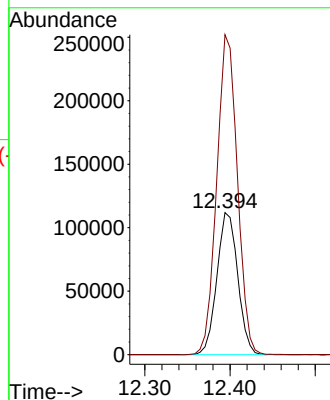
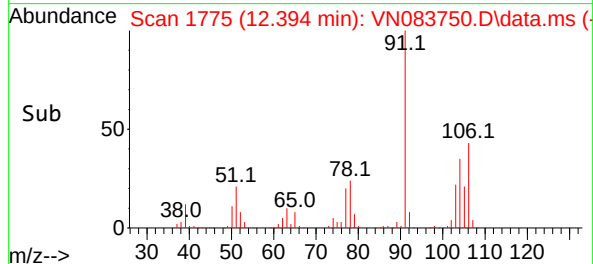
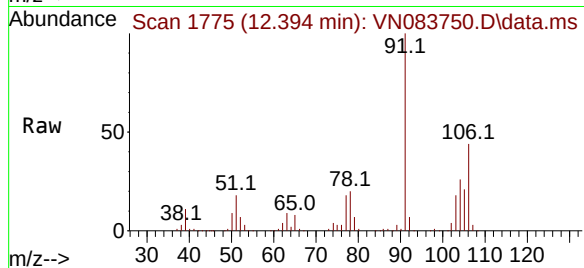
91 223.7 112.9 338.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#70

Styrene

Concen: 54.056 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

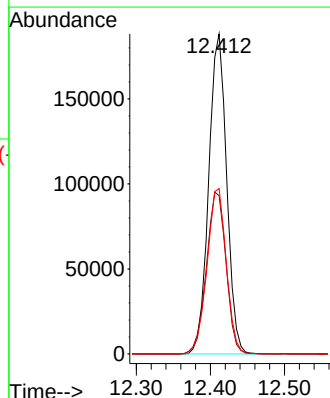
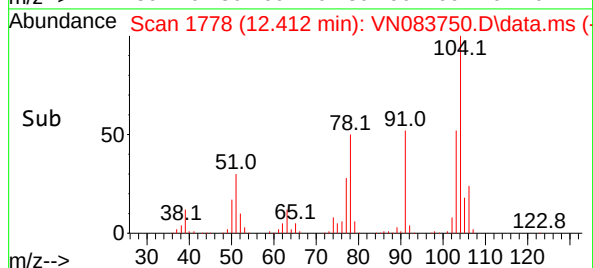
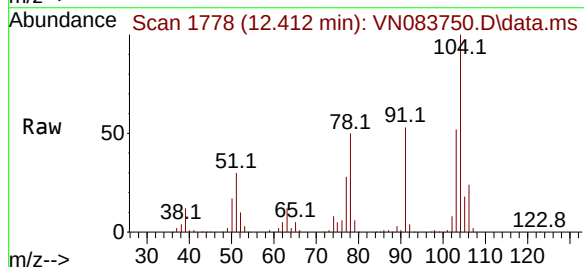
Tgt Ion:104 Resp: 316306

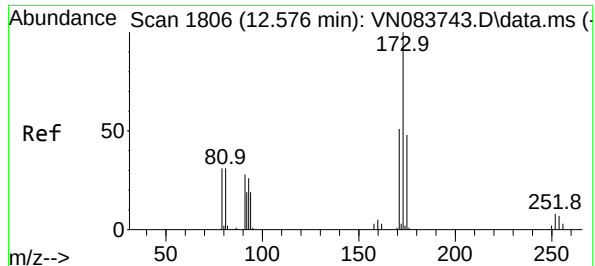
Ion Ratio Lower Upper

104 100

78 55.2 43.3 64.9

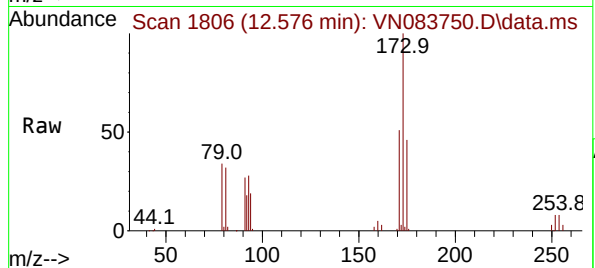
103 55.5 43.4 65.2





#71
Bromoform
Concen: 55.401 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

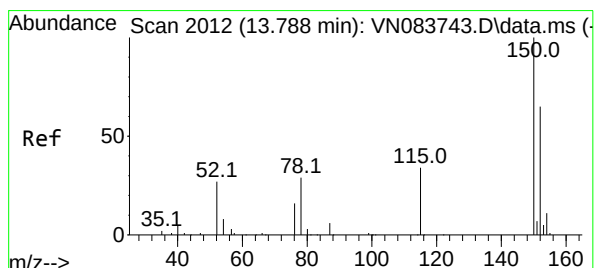
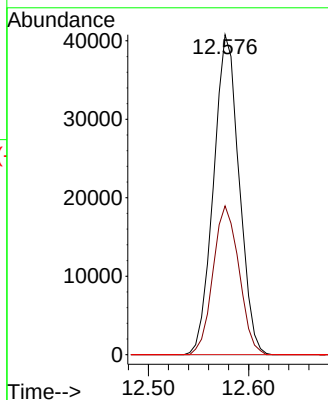
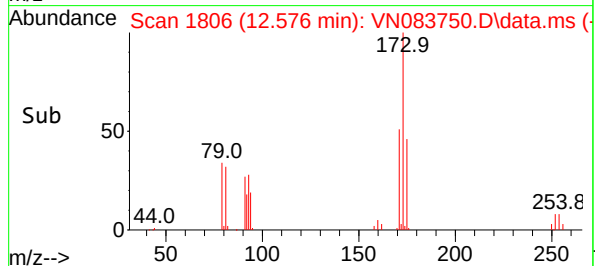
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024



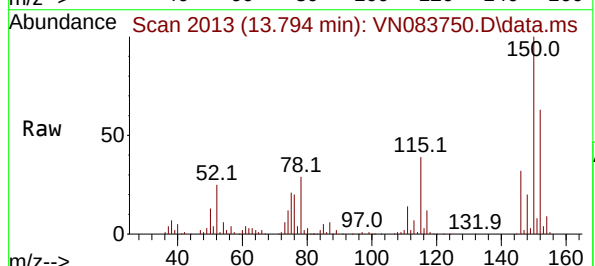
Tgt Ion:173 Resp: 72274
Ion Ratio Lower Upper
173 100
175 47.2 24.1 72.2
254 0.0 0.0 0.0

Manual Integrations
APPROVED

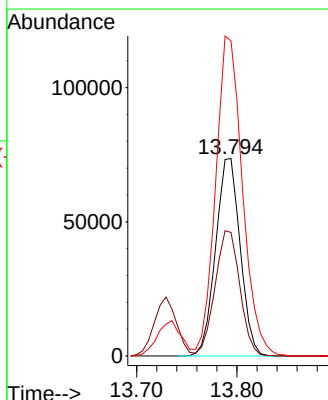
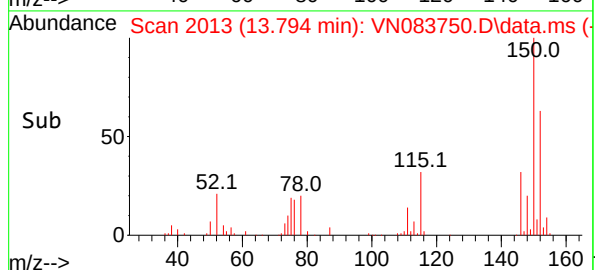
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

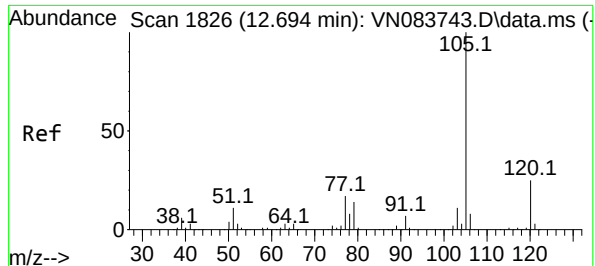


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36



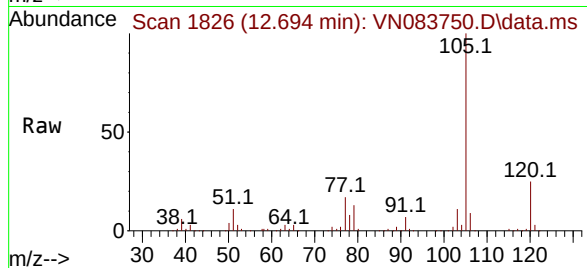
Tgt Ion:152 Resp: 124781
Ion Ratio Lower Upper
152 100
115 64.3 32.2 96.6
150 177.2 0.0 348.6





#73
Isopropylbenzene
Concen: 52.053 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

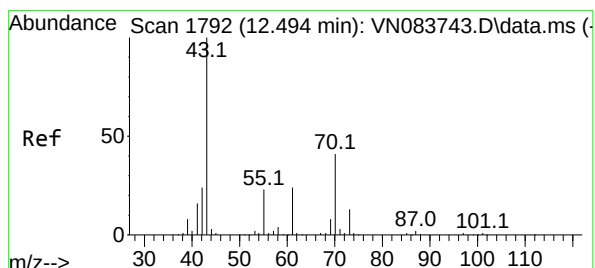
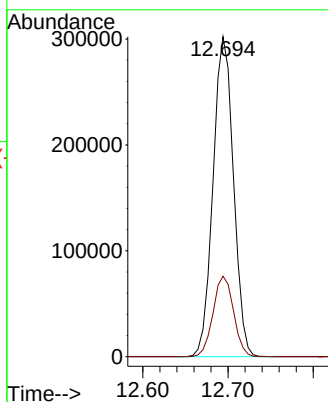
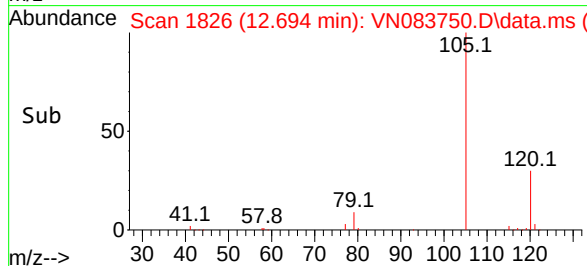
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024



Tgt Ion:105 Resp: 50251
Ion Ratio Lower Upper
105 100
120 25.2 12.6 37.8

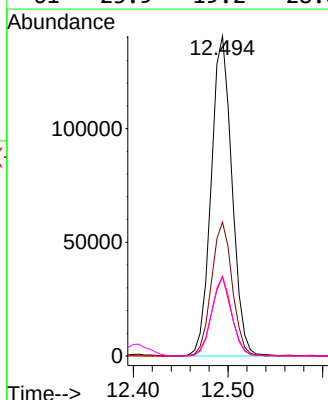
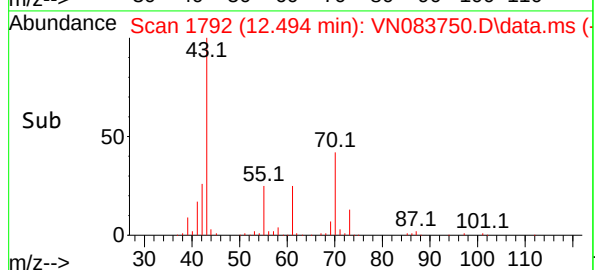
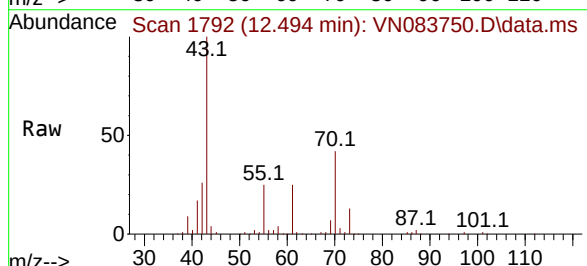
Manual Integrations
APPROVED

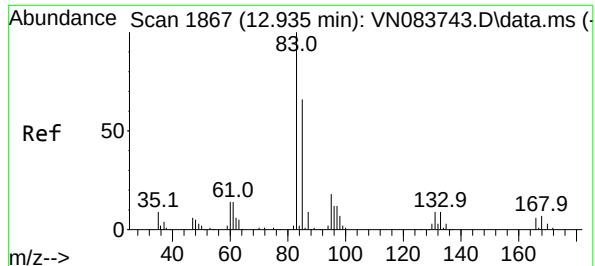
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#74
N-ethyl acetate
Concen: 52.045 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

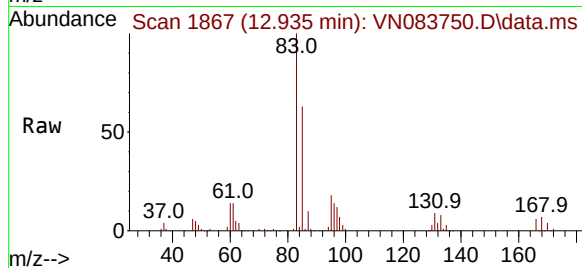
Tgt Ion: 43 Resp: 214365
Ion Ratio Lower Upper
43 100
70 41.9 34.5 51.7
55 23.7 18.6 28.0
61 23.9 19.2 28.8





#75
1,1,2-Tetrachloroethane
Concen: 48.260 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

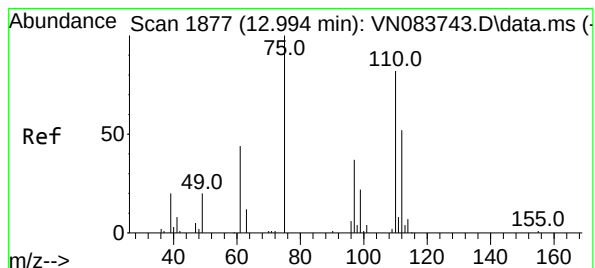
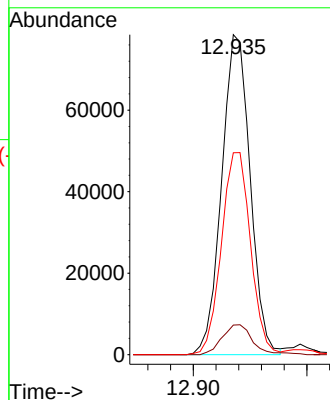
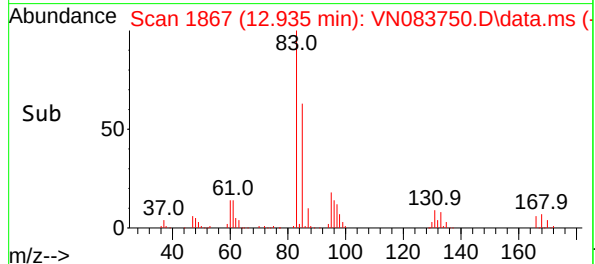
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024



Tgt Ion: 83 Resp: 136889
Ion Ratio Lower Upper
83 100
131 10.0 5.2 15.6
85 64.4 31.9 95.9

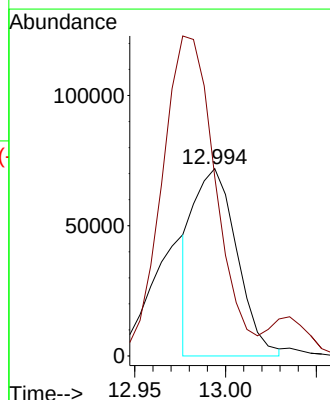
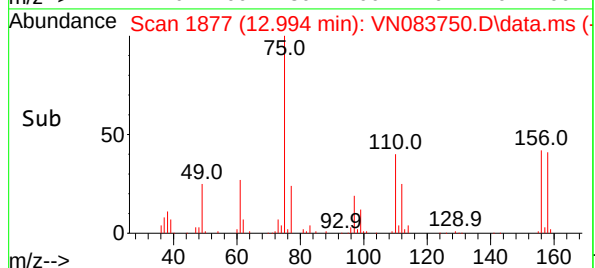
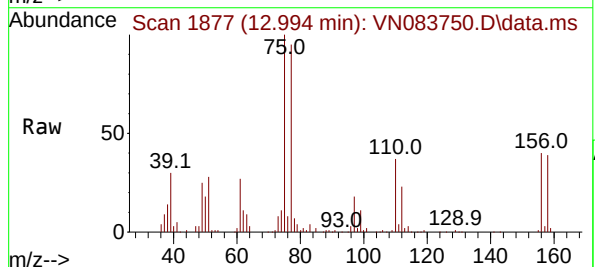
Manual Integrations
APPROVED

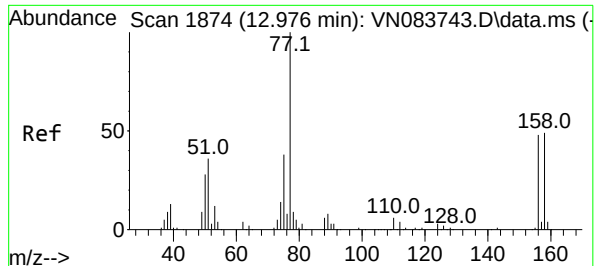
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#76
1,2,3-Trichloropropane
Concen: 48.674 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

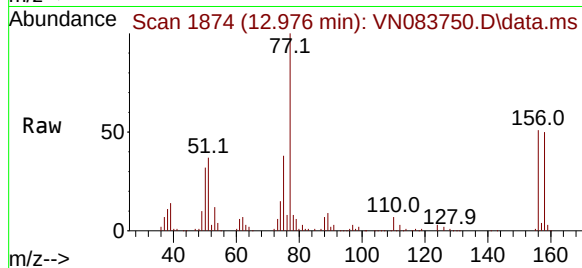
Tgt Ion: 75 Resp: 119528
Ion Ratio Lower Upper
75 100
77 211.7 95.2 285.6





#77
Bromobenzene
Concen: 47.901 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

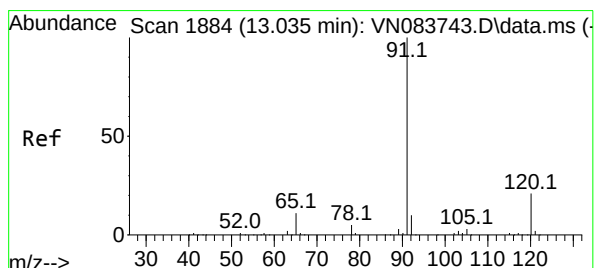
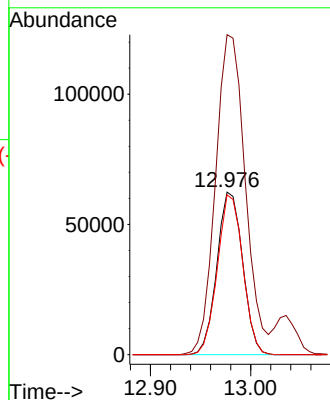
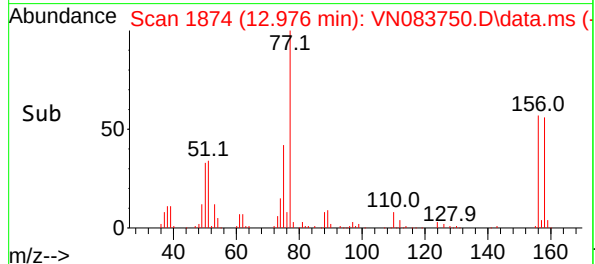
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024



Tgt Ion:156 Resp: 111312
Ion Ratio Lower Upper
156 100
77 227.3 114.3 343.1
158 97.0 48.9 146.7

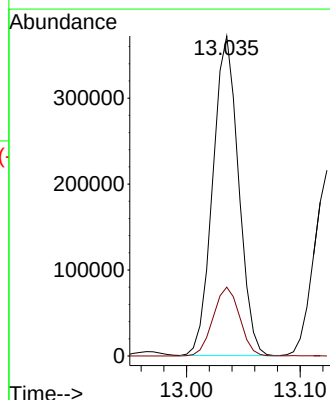
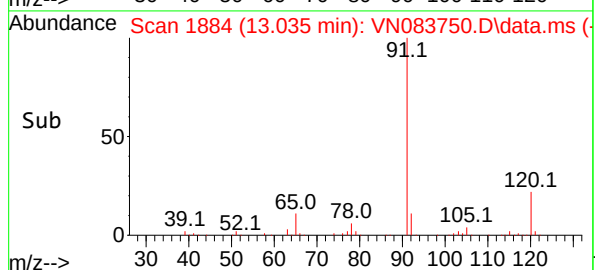
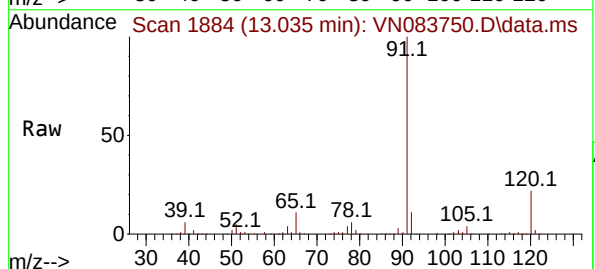
Manual Integrations
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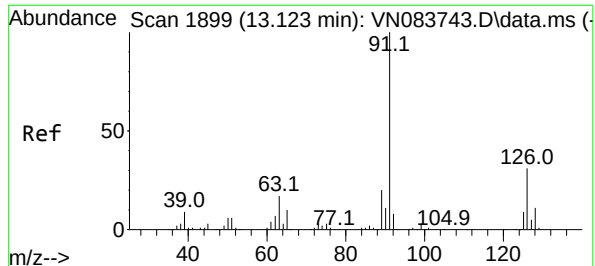
Reviewed By :John Carbone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#78
n-propylbenzene
Concen: 52.176 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 91 Resp: 586056
Ion Ratio Lower Upper
91 100
120 22.1 11.0 33.0





#79

2-Chlorotoluene

Concen: 50.314 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

Tgt Ion: 91 Resp: 36042

Ion Ratio Lower Upper

91 100

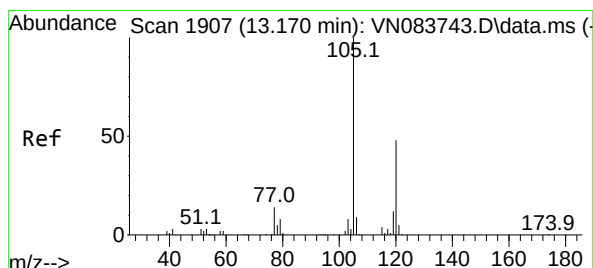
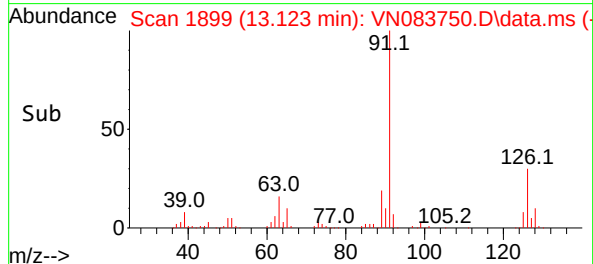
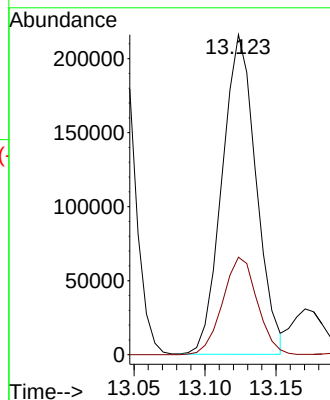
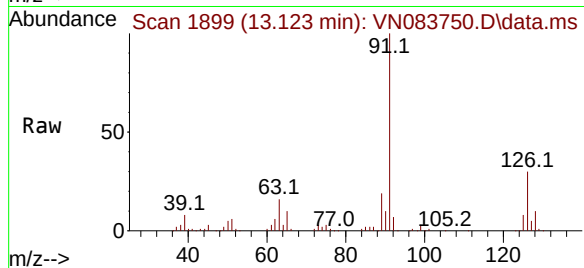
126 31.0 15.4 46.2

Manual Integrations

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Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#80

1,3,5-Trimethylbenzene

Concen: 52.201 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN083750.D

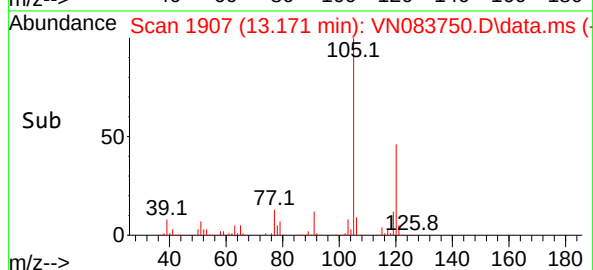
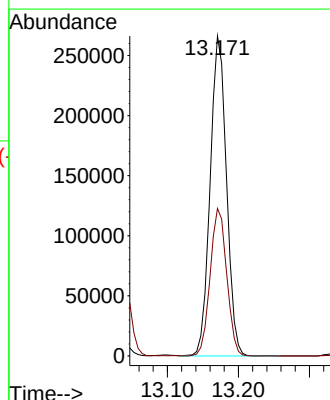
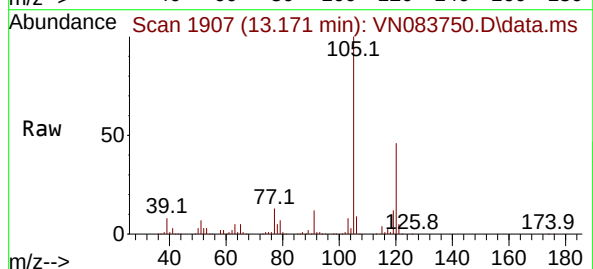
Acq: 10 Sep 2024 13:36

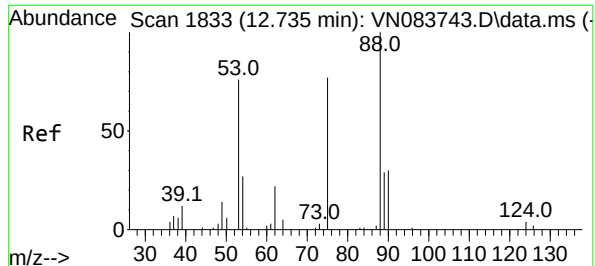
Tgt Ion:105 Resp: 424866

Ion Ratio Lower Upper

105 100

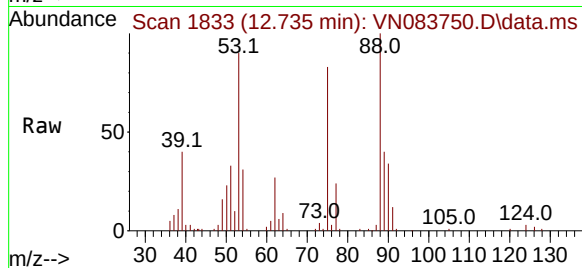
120 46.7 23.4 70.3





#81
trans-1,4-Dichloro-2-butene
Concen: 52.525 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

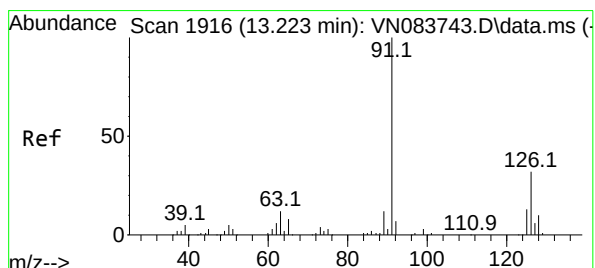
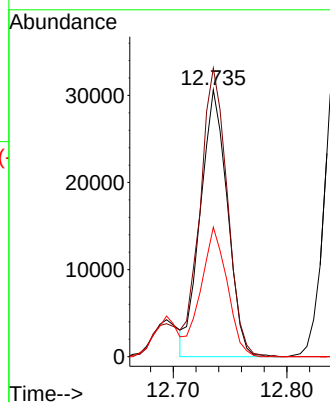
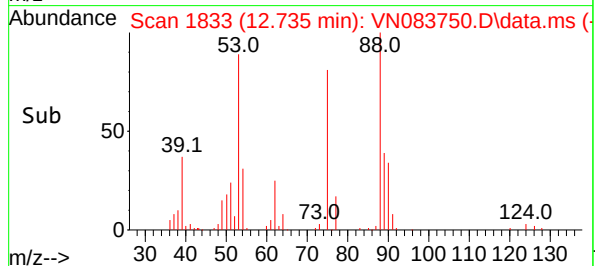
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024



Tgt Ion: 75 Resp: 50495
Ion Ratio Lower Upper
75 100
53 108.8 81.2 121.8
89 47.8 35.7 53.5

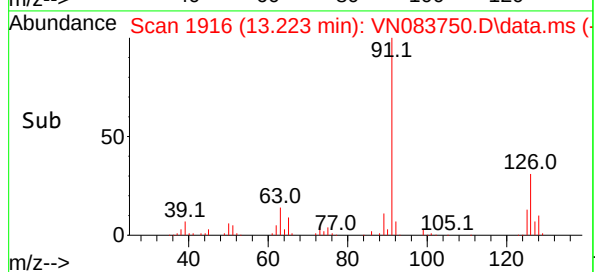
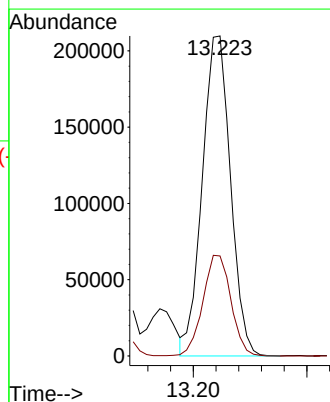
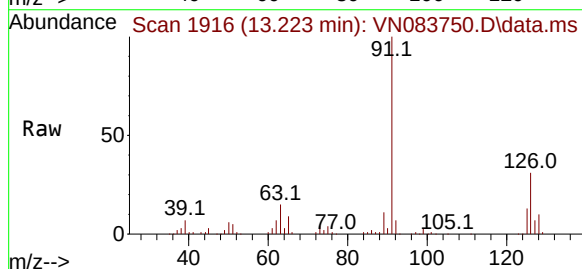
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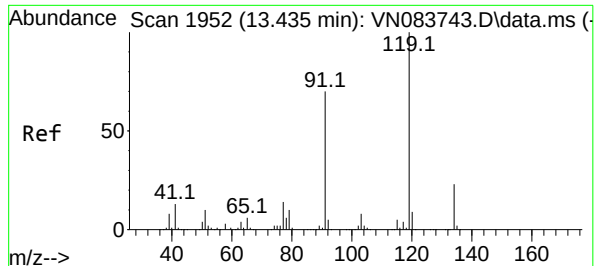
Reviewed By :John Carbone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#82
4-Chlorotoluene
Concen: 50.343 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

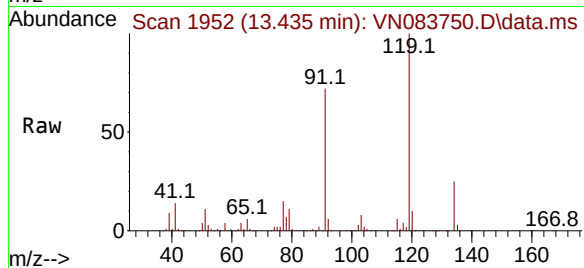
Tgt Ion: 91 Resp: 361895
Ion Ratio Lower Upper
91 100
126 31.3 15.4 46.2





#83
tert-Butylbenzene
Concen: 52.220 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

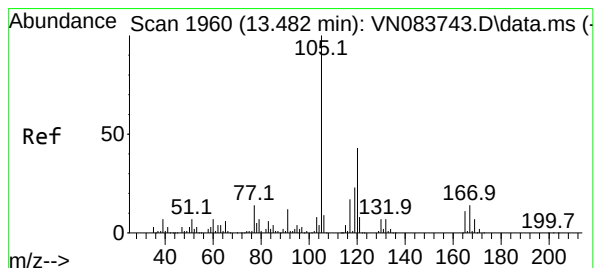
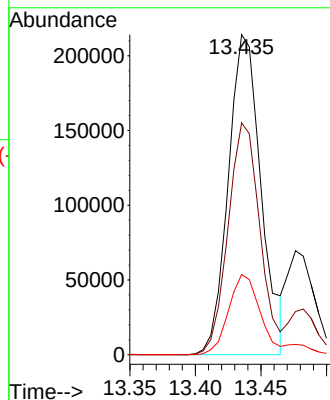
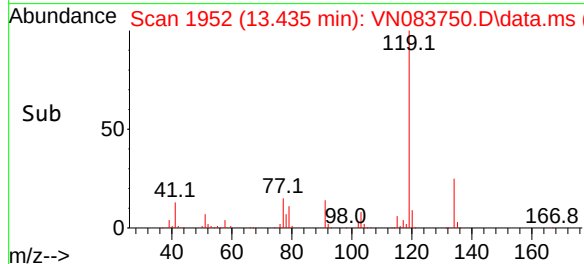
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024



Tgt Ion:119 Resp: 371848
Ion Ratio Lower Upper
119 100
91 70.5 34.5 103.6
134 26.4 12.8 38.4

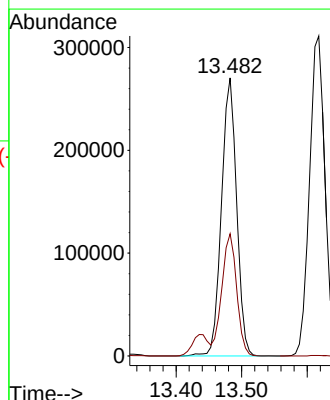
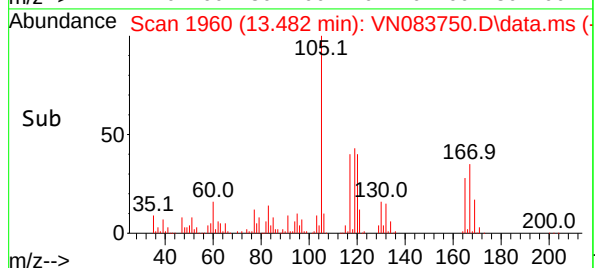
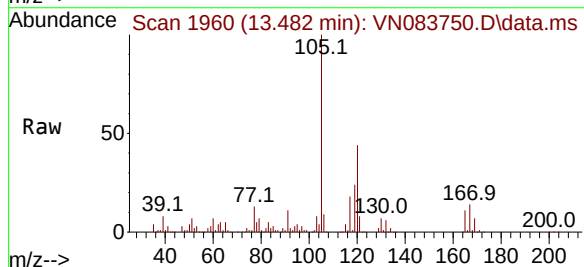
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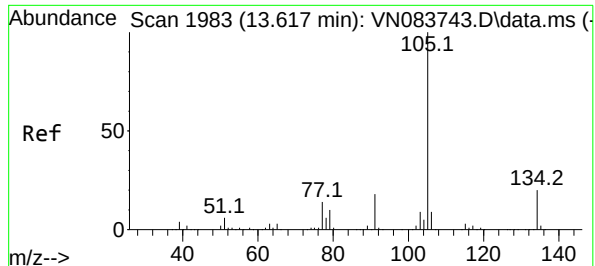
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#84
1,2,4-Trimethylbenzene
Concen: 52.865 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:105 Resp: 432216
Ion Ratio Lower Upper
105 100
120 43.2 21.8 65.4





#85

sec-Butylbenzene

Concen: 53.783 ug/l

RT: 13.618 min Scan# 1983

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

Tgt Ion:105 Resp: 50791

Ion Ratio Lower Upper

105 100

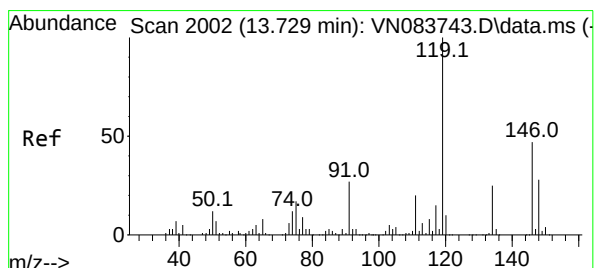
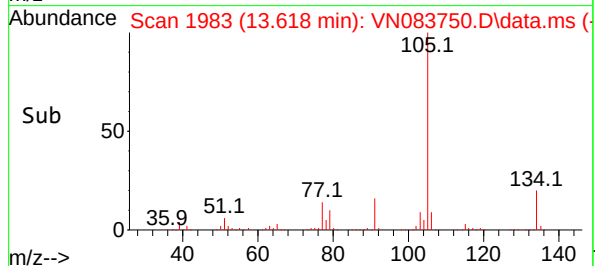
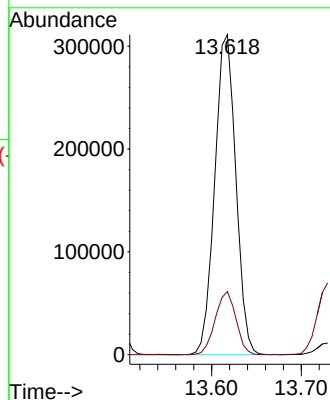
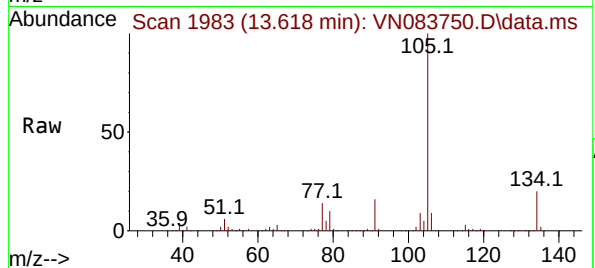
134 19.4 9.7 29.1

Manual Integrations

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Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#86

p-Isopropyltoluene

Concen: 54.013 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

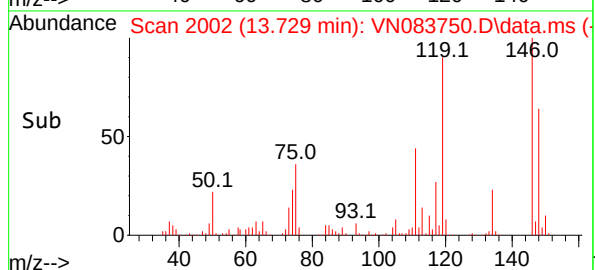
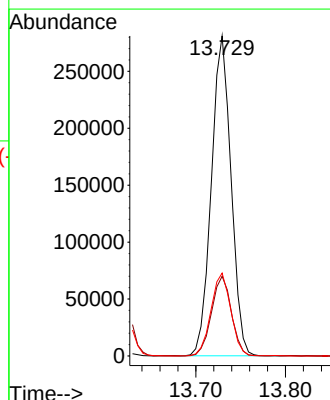
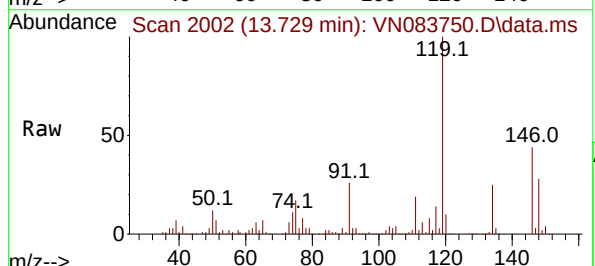
Tgt Ion:119 Resp: 427591

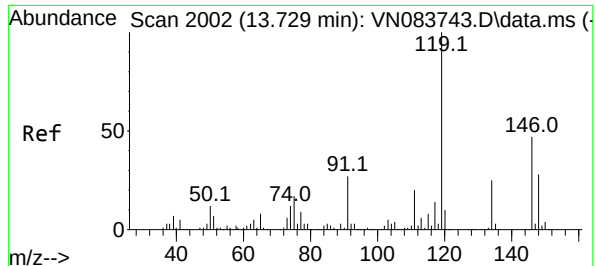
Ion Ratio Lower Upper

119 100

134 25.2 12.8 38.3

91 26.1 12.9 38.7





#87

1,3-Dichlorobenzene

Concen: 48.903 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.006 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

Tgt Ion:146 Resp: 214469

Ion Ratio Lower Upper

146 100

111 42.9 21.7 65.1

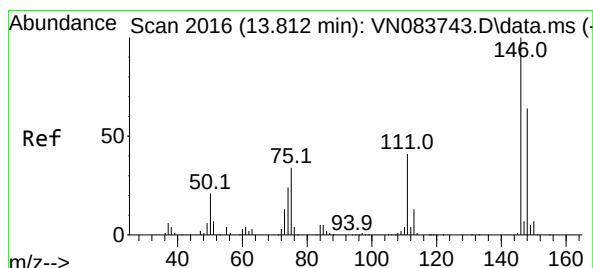
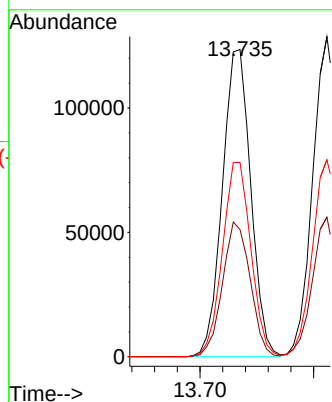
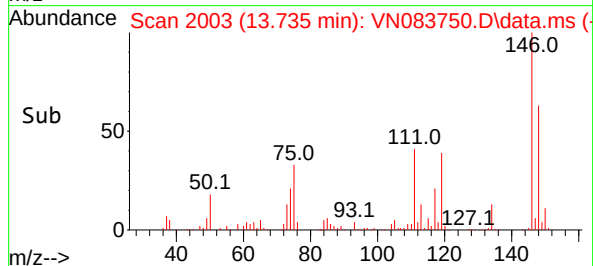
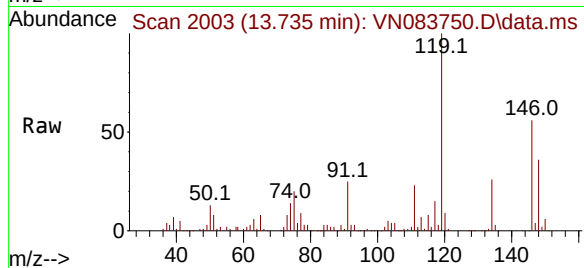
148 63.5 31.7 95.1

Manual Integrations

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Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#88

1,4-Dichlorobenzene

Concen: 47.783 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

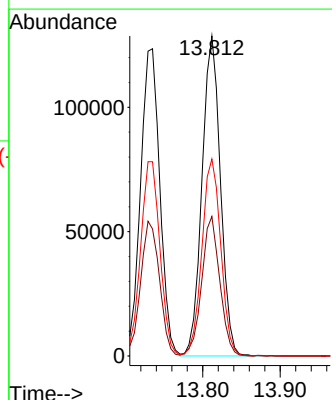
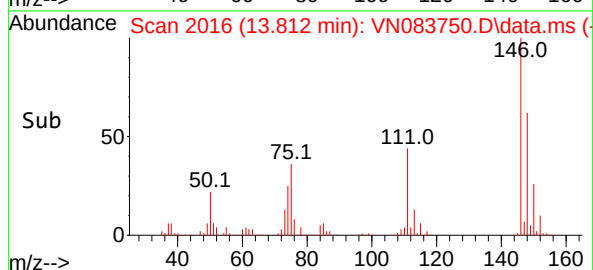
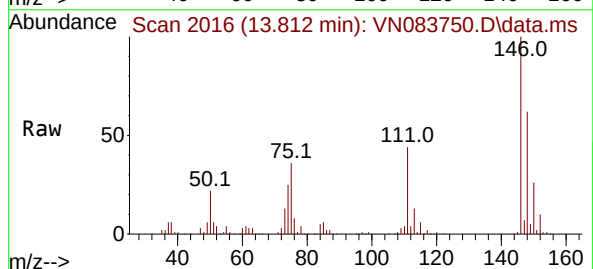
Tgt Ion:146 Resp: 212191

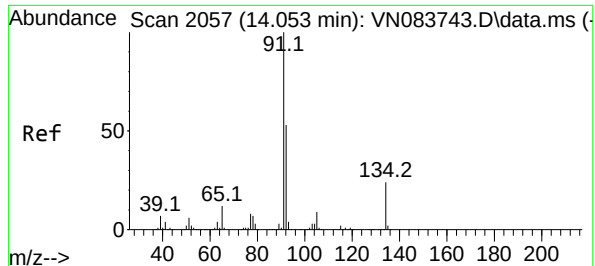
Ion Ratio Lower Upper

146 100

111 43.0 21.3 64.0

148 63.0 32.0 96.2





#89

n-Butylbenzene

Concen: 52.293 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

Tgt Ion: 91 Resp: 37168

Ion Ratio Lower Upper

91 100

92 52.9 26.7 80.1

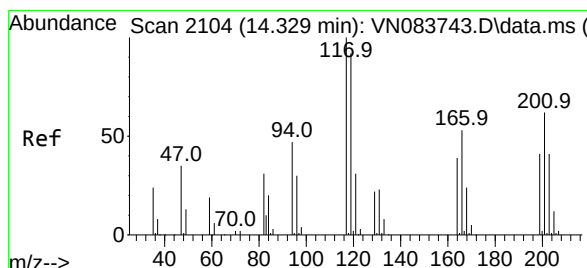
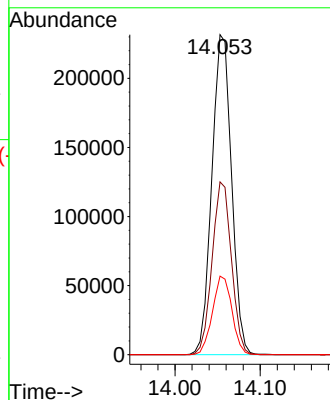
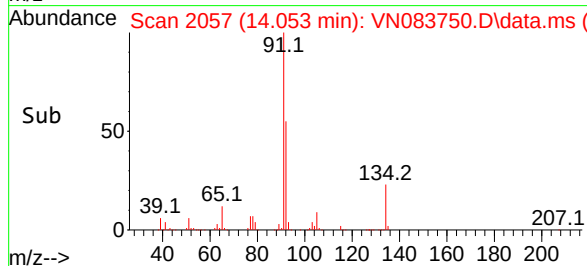
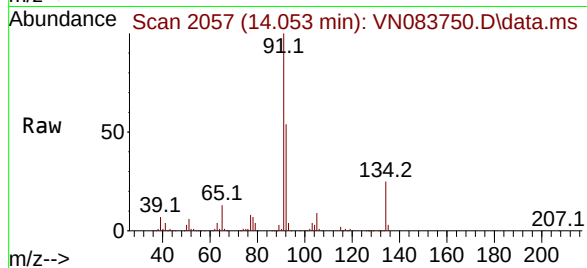
134 24.2 12.2 36.4

Manual Integrations

APPROVED

Reviewed By :John Carbone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#90

Hexachloroethane

Concen: 51.172 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. 0.006 min

Lab File: VN083750.D

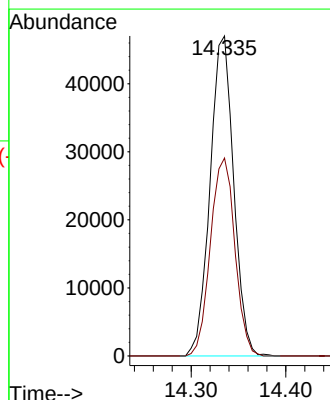
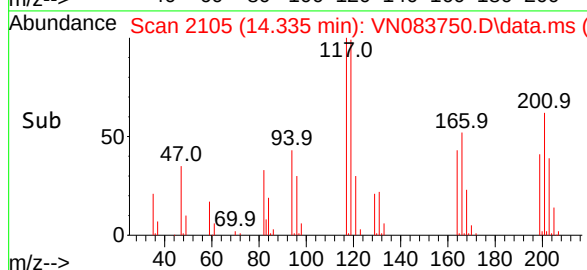
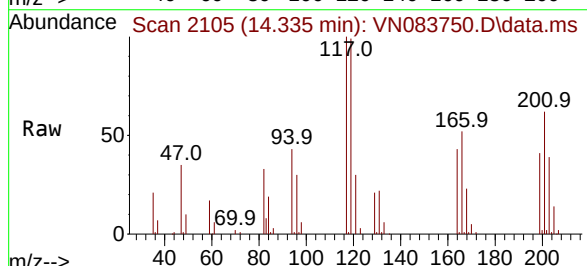
Acq: 10 Sep 2024 13:36

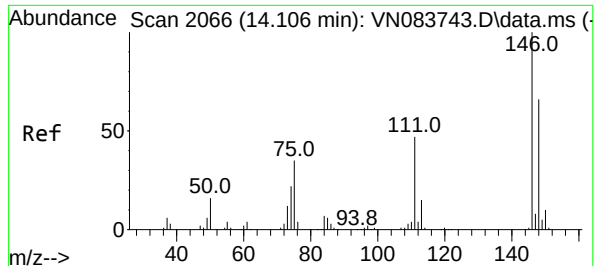
Tgt Ion:117 Resp: 81433

Ion Ratio Lower Upper

117 100

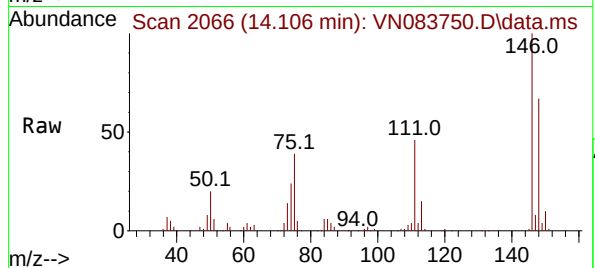
201 64.0 32.8 98.3





#91
1,2-Dichlorobenzene
Concen: 49.147 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

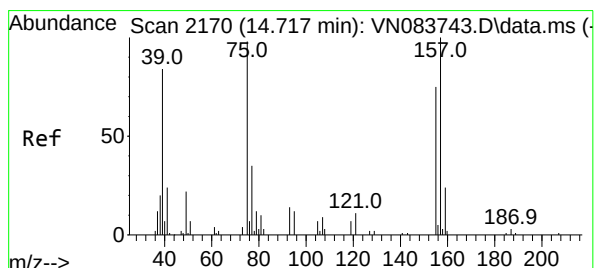
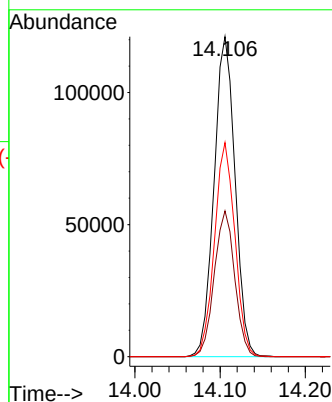
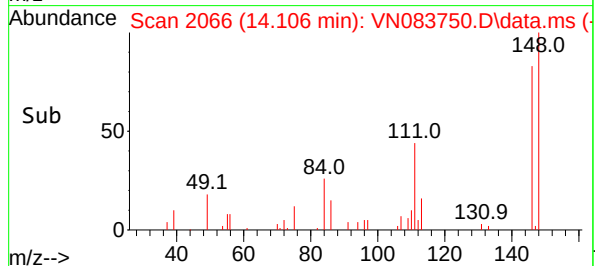
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024



Tgt Ion:146 Resp: 208015
Ion Ratio Lower Upper
146 100
111 44.4 22.8 68.3
148 65.1 32.1 96.5

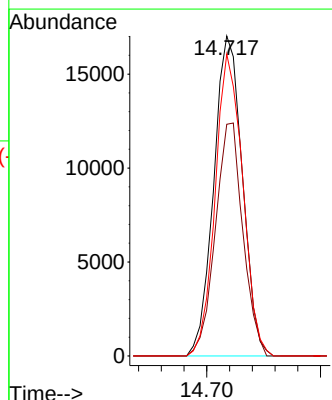
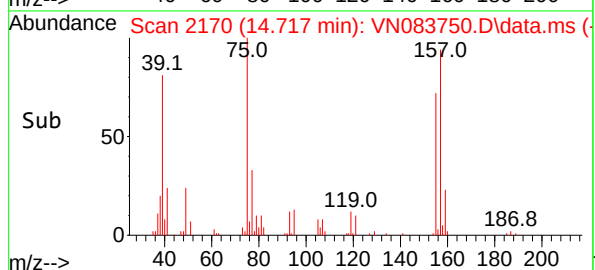
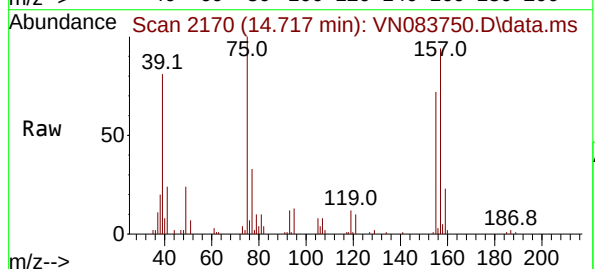
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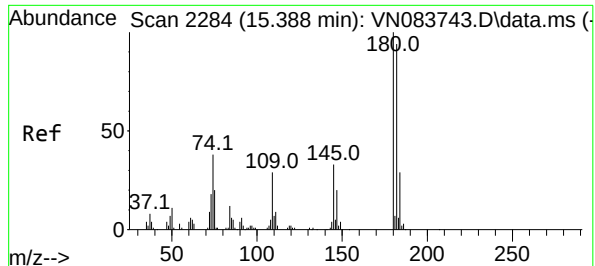
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 52.701 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 75 Resp: 29799
Ion Ratio Lower Upper
75 100
155 70.2 35.9 107.7
157 90.5 47.5 142.5





#93

1,2,4-Trichlorobenzene

Concen: 49.382 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

Instrument :

MSVOA_N

ClientSampleId :

ICVVN091024

Tgt Ion:180 Resp: 112159

Ion Ratio Lower Upper

180 100

182 94.6 48.1 144.3

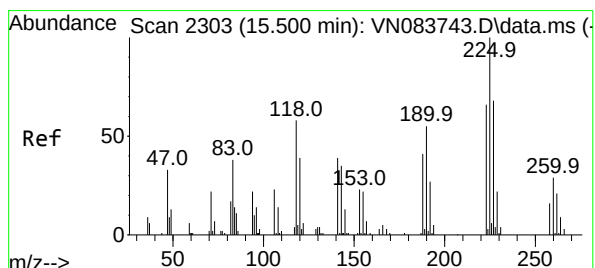
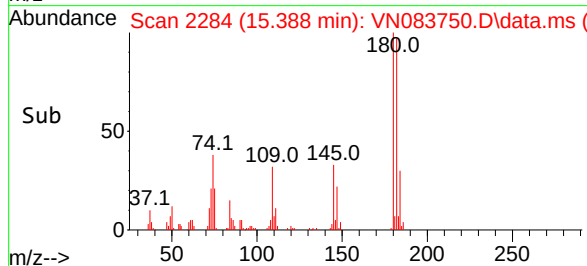
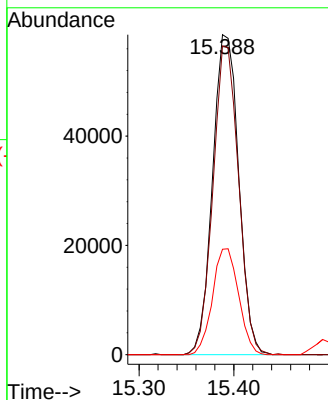
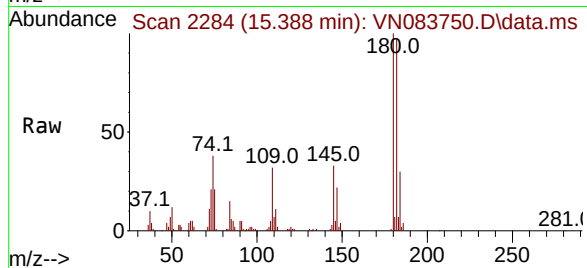
145 33.1 16.9 50.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#94

Hexachlorobutadiene

Concen: 48.740 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN083750.D

Acq: 10 Sep 2024 13:36

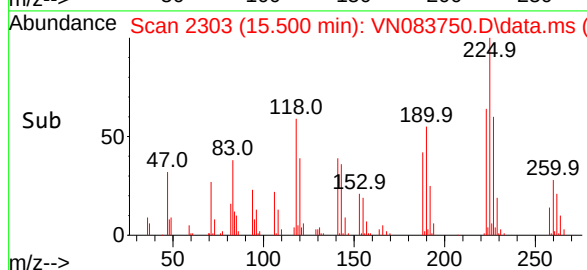
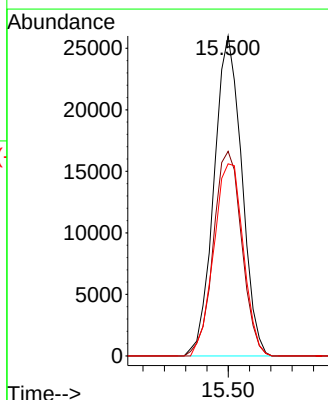
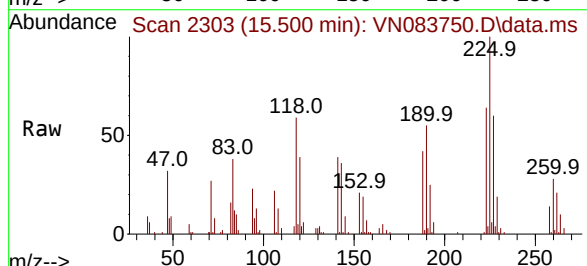
Tgt Ion:225 Resp: 47012

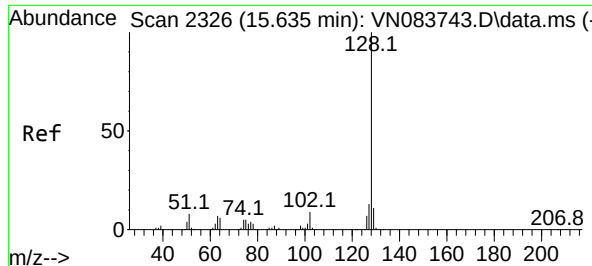
Ion Ratio Lower Upper

225 100

223 65.3 31.9 95.5

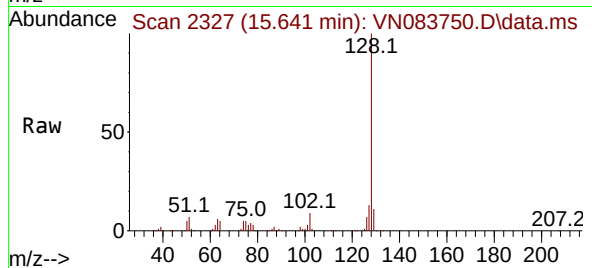
227 64.0 32.0 96.2





#95
Naphthalene
Concen: 51.621 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

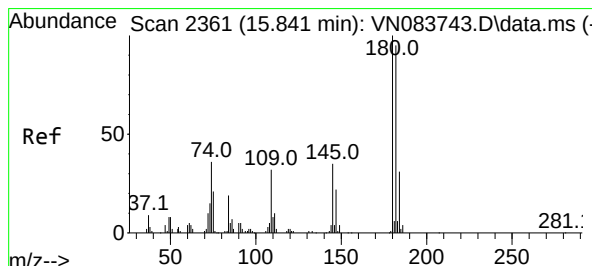
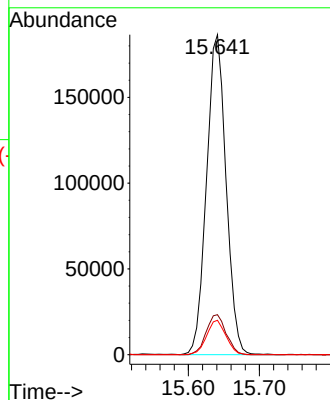
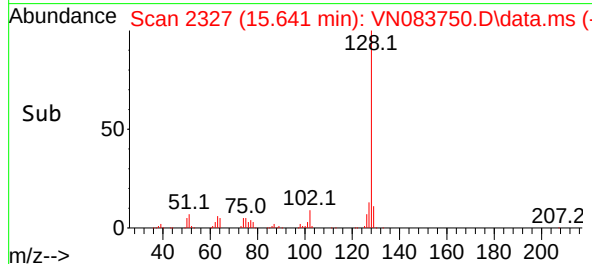
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024



Tgt Ion:128 Resp: 35669
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.2
129 10.6 8.7 13.1

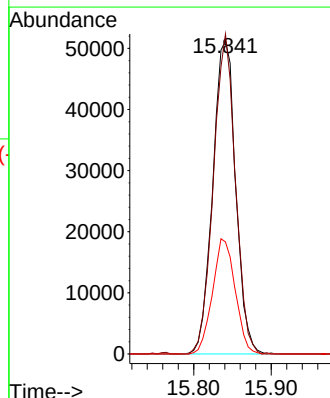
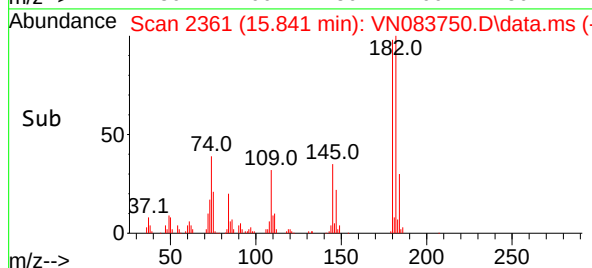
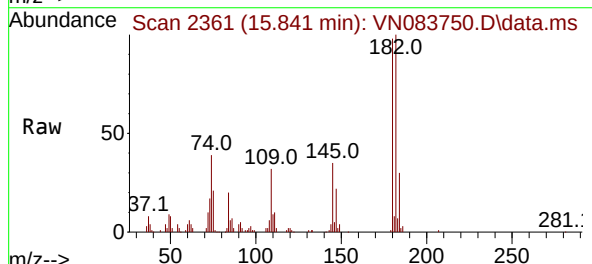
Manual Integrations
APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#96
1,2,3-Trichlorobenzene
Concen: 48.497 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:180 Resp: 105270
Ion Ratio Lower Upper
180 100
182 98.0 47.1 141.4
145 36.3 17.8 53.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
 Data File : VN083750.D
 Acq On : 10 Sep 2024 13:36
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN091024

Quant Time: Sep 11 03:12:03 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 02:47:22 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	97	0.00
2 T	Dichlorodifluoromethane	0.581	0.613	-5.5	99	0.00
3 P	Chloromethane	0.707	0.619	12.4	96	0.00
4 C	Vinyl Chloride	0.636	0.635	0.2#	93	0.00
5 T	Bromomethane	0.365	0.358	1.9	96	0.00
6 T	Chloroethane	0.446	0.425	4.7	95	0.00
7 T	Trichlorofluoromethane	1.080	1.080	0.0	98	0.00
8 T	Diethyl Ether	0.362	0.369	-1.9	97	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.573	0.590	-3.0	97	0.00
10 T	Methyl Iodide	0.728	0.756	-3.8	96	0.00
11 T	Tert butyl alcohol	0.101	0.101	0.0	96	0.00
12 CM	1,1-Dichloroethene	0.541	0.556	-2.8#	96	0.00
13 T	Acrolein	0.100	0.088	12.0	82	0.00
14 T	Allyl chloride	0.964	0.986	-2.3	95	0.00
15 T	Acrylonitrile	0.275	0.278	-1.1	97	0.00
16 T	Acetone	0.302	0.305	-1.0	99	0.00
17 T	Carbon Disulfide	1.513	1.479	2.2	93	0.00
18 T	Methyl Acetate	0.735	0.662	9.9	96	0.00
19 T	Methyl tert-butyl Ether	1.957	1.973	-0.8	95	0.00
20 T	Methylene Chloride	0.618	0.600	2.9	95	0.00
21 T	trans-1,2-Dichloroethene	0.580	0.568	2.1	94	0.00
22 T	Diisopropyl ether	1.984	2.039	-2.8	96	0.00
23 T	Vinyl Acetate	1.453	1.552	-6.8	97	0.00
24 P	1,1-Dichloroethane	1.143	1.126	1.5	95	0.00
25 T	2-Butanone	0.397	0.406	-2.3	100	0.00
26 T	2,2-Dichloropropane	1.052	1.091	-3.7	96	0.00
27 T	cis-1,2-Dichloroethene	0.688	0.692	-0.6	93	0.00
28 T	Bromochloromethane	0.481	0.501	-4.2	92	0.00
29 T	Tetrahydrofuran	0.235	0.245	-4.3	98	0.00
30 C	Chloroform	1.213	1.217	-0.3#	96	0.00
31 T	Cyclohexane	1.090	1.038	4.8	99	0.00
32 T	1,1,1-Trichloroethane	1.116	1.123	-0.6	95	0.00
33 S	1,2-Dichloroethane-d4	0.754	0.741	1.7	84	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
35 S	Dibromofluoromethane	0.320	0.319	0.3	86	0.00
36 T	1,1-Dichloropropene	0.482	0.498	-3.3	97	0.00
37 T	Ethyl Acetate	0.437	0.481	-10.1	96	0.00
38 T	Carbon Tetrachloride	0.547	0.585	-6.9	96	0.00
39 T	Methylcyclohexane	0.548	0.607	-10.8	97	0.00
40 TM	Benzene	1.450	1.523	-5.0	97	0.00
41 T	Methacrylonitrile	0.259	0.280	-8.1	97	0.00
42 TM	1,2-Dichloroethane	0.542	0.572	-5.5	96	0.00
43 T	Isopropyl Acetate	0.792	0.843	-6.4	97	0.00
44 TM	Trichloroethene	0.336	0.350	-4.2	94	0.00
45 C	1,2-Dichloropropane	0.350	0.369	-5.4#	97	0.00
46 T	Dibromomethane	0.245	0.264	-7.8	95	0.00
47 T	Bromodichloromethane	0.531	0.563	-6.0	94	0.00
48 T	Methyl methacrylate	0.376	0.415	-10.4	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
 Data File : VN083750.D
 Acq On : 10 Sep 2024 13:36
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN091024

Quant Time: Sep 11 03:12:03 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 02:47:22 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	0.006	0.006	0.0	99	0.00
50 S	Toluene-d8	1.107	1.170	-5.7	84	0.00
51 T	4-Methyl-2-Pentanone	0.431	0.471	-9.3	97	0.00
52 CM	Toluene	0.887	0.953	-7.4#	96	0.00
53 T	t-1,3-Dichloropropene	0.539	0.593	-10.0	97	0.00
54 T	cis-1,3-Dichloropropene	0.566	0.610	-7.8	95	0.00
55 T	1,1,2-Trichloroethane	0.331	0.352	-6.3	98	0.00
56 T	Ethyl methacrylate	0.509	0.584	-14.7	96	0.00
57 T	1,3-Dichloropropane	0.569	0.605	-6.3	96	0.00
58 T	2-Chloroethyl Vinyl ether	0.184	0.177	3.8	94	0.00
59 T	2-Hexanone	0.319	0.359	-12.5	100	0.00
60 T	Dibromochloromethane	0.371	0.410	-10.5	96	0.00
61 T	1,2-Dibromoethane	0.330	0.350	-6.1	97	0.00
62 S	4-Bromofluorobenzene	0.457	0.459	-0.4	86	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
64 T	Tetrachloroethene	0.333	0.332	0.3	98	0.00
65 PM	Chlorobenzene	1.111	1.105	0.5	96	0.00
66 T	1,1,1,2-Tetrachloroethane	0.385	0.399	-3.6	96	0.00
67 C	Ethyl Benzene	1.974	2.090	-5.9#	97	0.00
68 T	m/p-Xylenes	0.733	0.781	-6.5	98	0.00
69 T	o-Xylene	0.710	0.756	-6.5	97	0.00
70 T	Styrene	1.164	1.259	-8.2	96	0.00
71 P	Bromoform	0.260	0.288	-10.8	98	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73 T	Isopropylbenzene	3.868	4.027	-4.1	97	0.00
74 T	N-amyl acetate	1.650	1.718	-4.1	97	0.00
75 P	1,1,2,2-Tetrachloroethane	1.137	1.097	3.5	98	0.00
76 T	1,2,3-Trichloropropane	1.009	0.958	5.1	99	0.00
77 T	Bromobenzene	0.931	0.892	4.2	97	0.00
78 T	n-propylbenzene	4.501	4.697	-4.4	97	0.00
79 T	2-Chlorotoluene	2.870	2.888	-0.6	98	0.00
80 T	1,3,5-Trimethylbenzene	3.261	3.405	-4.4	98	0.00
81 T	trans-1,4-Dichloro-2-butene	0.385	0.405	-5.2	96	0.00
82 T	4-Chlorotoluene	2.880	2.900	-0.7	96	0.00
83 T	tert-Butylbenzene	2.853	2.980	-4.5	97	0.00
84 T	1,2,4-Trimethylbenzene	3.276	3.464	-5.7	97	0.00
85 T	sec-Butylbenzene	3.784	4.070	-7.6	98	0.00
86 T	p-Isopropyltoluene	3.172	3.427	-8.0	97	0.00
87 T	1,3-Dichlorobenzene	1.757	1.719	2.2	97	0.00
88 T	1,4-Dichlorobenzene	1.779	1.701	4.4	96	0.00
89 T	n-Butylbenzene	2.848	2.979	-4.6	97	0.00
90 T	Hexachloroethane	0.638	0.653	-2.4	100	0.00
91 T	1,2-Dichlorobenzene	1.696	1.667	1.7	97	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.227	0.239	-5.3	99	0.00
93 T	1,2,4-Trichlorobenzene	0.910	0.899	1.2	94	0.00
94 T	Hexachlorobutadiene	0.386	0.377	2.3	99	0.00
95 T	Naphthalene	2.769	2.859	-3.3	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083750.D
Acq On : 10 Sep 2024 13:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Quant Time: Sep 11 03:12:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 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	0.870	0.844	3.0	92	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083750.D
Acq On : 10 Sep 2024 13:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Quant Time: Sep 11 03:12:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 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	97	0.00
2 T	Dichlorodifluoromethane	50.000	52.821	-5.6	99	0.00
3 P	Chloromethane	50.000	52.272	-4.5	96	0.00
4 C	Vinyl Chloride	50.000	49.874	0.3#	93	0.00
5 T	Bromomethane	50.000	48.990	2.0	96	0.00
6 T	Chloroethane	50.000	47.641	4.7	95	0.00
7 T	Trichlorofluoromethane	50.000	49.971	0.1	98	0.00
8 T	Diethyl Ether	50.000	51.008	-2.0	97	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.544	-3.1	97	0.00
10 T	Methyl Iodide	50.000	51.932	-3.9	96	0.00
11 T	Tert butyl alcohol	250.000	248.972	0.4	96	0.00
12 CM	1,1-Dichloroethene	50.000	51.382	-2.8#	96	0.00
13 T	Acrolein	250.000	221.776	11.3	82	0.00
14 T	Allyl chloride	50.000	51.173	-2.3	95	0.00
15 T	Acrylonitrile	250.000	253.015	-1.2	97	0.00
16 T	Acetone	250.000	252.037	-0.8	99	0.00
17 T	Carbon Disulfide	50.000	48.898	2.2	93	0.00
18 T	Methyl Acetate	50.000	52.663	-5.3	96	0.00
19 T	Methyl tert-butyl Ether	50.000	50.422	-0.8	95	0.00
20 T	Methylene Chloride	50.000	48.470	3.1	95	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.020	2.0	94	0.00
22 T	Diisopropyl ether	50.000	51.404	-2.8	96	0.00
23 T	Vinyl Acetate	250.000	267.118	-6.8	97	0.00
24 P	1,1-Dichloroethane	50.000	49.262	1.5	95	0.00
25 T	2-Butanone	250.000	255.394	-2.2	100	0.00
26 T	2,2-Dichloropropane	50.000	51.834	-3.7	96	0.00
27 T	cis-1,2-Dichloroethene	50.000	50.270	-0.5	93	0.00
28 T	Bromochloromethane	50.000	52.080	-4.2	92	0.00
29 T	Tetrahydrofuran	250.000	260.627	-4.3	98	0.00
30 C	Chloroform	50.000	50.138	-0.3#	96	0.00
31 T	Cyclohexane	50.000	47.623	4.8	99	0.00
32 T	1,1,1-Trichloroethane	50.000	50.318	-0.6	95	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.116	1.8	84	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	92	0.00
35 S	Dibromofluoromethane	50.000	49.858	0.3	86	0.00
36 T	1,1-Dichloropropene	50.000	51.650	-3.3	97	0.00
37 T	Ethyl Acetate	50.000	54.953	-9.9	96	0.00
38 T	Carbon Tetrachloride	50.000	53.514	-7.0	96	0.00
39 T	Methylcyclohexane	50.000	55.386	-10.8	97	0.00
40 TM	Benzene	50.000	52.529	-5.1	97	0.00
41 T	Methacrylonitrile	50.000	54.088	-8.2	97	0.00
42 TM	1,2-Dichloroethane	50.000	52.791	-5.6	96	0.00
43 T	Isopropyl Acetate	50.000	53.180	-6.4	97	0.00
44 TM	Trichloroethene	50.000	52.111	-4.2	94	0.00
45 C	1,2-Dichloropropane	50.000	52.608	-5.2#	97	0.00
46 T	Dibromomethane	50.000	53.838	-7.7	95	0.00
47 T	Bromodichloromethane	50.000	53.018	-6.0	94	0.00
48 T	Methyl methacrylate	50.000	55.216	-10.4	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
 Data File : VN083750.D
 Acq On : 10 Sep 2024 13:36
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN091024

Quant Time: Sep 11 03:12:03 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 02:47:22 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	1050.868	-5.1	99	0.00
50 S	Toluene-d8	50.000	52.850	-5.7	84	0.00
51 T	4-Methyl-2-Pentanone	250.000	272.839	-9.1	97	0.00
52 CM	Toluene	50.000	53.732	-7.5#	96	0.00
53 T	t-1,3-Dichloropropene	50.000	55.091	-10.2	97	0.00
54 T	cis-1,3-Dichloropropene	50.000	53.937	-7.9	95	0.00
55 T	1,1,2-Trichloroethane	50.000	53.075	-6.2	98	0.00
56 T	Ethyl methacrylate	50.000	57.314	-14.6	96	0.00
57 T	1,3-Dichloropropane	50.000	53.152	-6.3	96	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	240.626	3.7	94	0.00
59 T	2-Hexanone	250.000	281.422	-12.6	100	0.00
60 T	Dibromochloromethane	50.000	55.330	-10.7	96	0.00
61 T	1,2-Dibromoethane	50.000	53.026	-6.1	97	0.00
62 S	4-Bromofluorobenzene	50.000	50.260	-0.5	86	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	94	0.00
64 T	Tetrachloroethene	50.000	49.891	0.2	98	0.00
65 PM	Chlorobenzene	50.000	49.726	0.5	96	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	51.726	-3.5	96	0.00
67 C	Ethyl Benzene	50.000	52.932	-5.9#	97	0.00
68 T	m/p-Xylenes	100.000	106.586	-6.6	98	0.00
69 T	o-Xylene	50.000	53.308	-6.6	97	0.00
70 T	Styrene	50.000	54.056	-8.1	96	0.00
71 P	Bromoform	50.000	55.401	-10.8	98	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73 T	Isopropylbenzene	50.000	52.053	-4.1	97	0.00
74 T	N-amyl acetate	50.000	52.045	-4.1	97	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	48.260	3.5	98	0.00
76 T	1,2,3-Trichloropropane	50.000	48.674	2.7	99	0.00
77 T	Bromobenzene	50.000	47.901	4.2	97	0.00
78 T	n-propylbenzene	50.000	52.176	-4.4	97	0.00
79 T	2-Chlorotoluene	50.000	50.314	-0.6	98	0.00
80 T	1,3,5-Trimethylbenzene	50.000	52.201	-4.4	98	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	52.525	-5.0	96	0.00
82 T	4-Chlorotoluene	50.000	50.343	-0.7	96	0.00
83 T	tert-Butylbenzene	50.000	52.220	-4.4	97	0.00
84 T	1,2,4-Trimethylbenzene	50.000	52.865	-5.7	97	0.00
85 T	sec-Butylbenzene	50.000	53.783	-7.6	98	0.00
86 T	p-Isopropyltoluene	50.000	54.013	-8.0	97	0.00
87 T	1,3-Dichlorobenzene	50.000	48.903	2.2	97	0.00
88 T	1,4-Dichlorobenzene	50.000	47.783	4.4	96	0.00
89 T	n-Butylbenzene	50.000	52.293	-4.6	97	0.00
90 T	Hexachloroethane	50.000	51.172	-2.3	100	0.00
91 T	1,2-Dichlorobenzene	50.000	49.147	1.7	97	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	52.701	-5.4	99	0.00
93 T	1,2,4-Trichlorobenzene	50.000	49.382	1.2	94	0.00
94 T	Hexachlorobutadiene	50.000	48.740	2.5	99	0.00
95 T	Naphthalene	50.000	51.621	-3.2	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083750.D
Acq On : 10 Sep 2024 13:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Quant Time: Sep 11 03:12:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 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	48.497	3.0	92	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: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG No.: P3845

Instrument ID: MSVOA_N Calibration Date/Time: 09/11/2024 12:59

Lab File ID: VN083791.D Init. Calib. Date(s): 09/10/2024 09/10/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:08 12:43

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.581	0.608		4.65	20
Chloromethane	0.707	0.632	0.1	-10.61	20
Vinyl Chloride	0.636	0.645		1.41	20
Ethyl Acetate	0.437	0.509		16.48	20
Isopropyl Acetate	0.792	1.121		41.54	20
Bromomethane	0.365	0.366		0.27	20
Chloroethane	0.446	0.435		-2.47	20
Trichlorofluoromethane	1.080	1.102		2.04	20
1,1,2-Trichlorotrifluoroethane	0.573	0.610		6.46	20
Tert butyl alcohol	0.101	0.108		6.93	20
Diethyl Ether	0.362	0.376		3.87	20
1,1-Dichloroethene	0.541	0.546		0.92	20
Acrolein	0.100	0.101		1	20
Acrylonitrile	0.275	0.290		5.45	20
Acetone	0.302	0.326		7.95	20
Carbon Disulfide	1.513	1.434		-5.22	20
Methyl tert-butyl Ether	1.957	2.039		4.19	20
Methyl Acetate	0.735	0.703		-4.35	20
Methylene Chloride	0.618	0.628		1.62	20
trans-1,2-Dichloroethene	0.580	0.566		-2.41	20
Vinyl Acetate	1.453	1.609		10.74	20
1,1-Dichloroethane	1.143	1.149	0.1	0.52	20
Cyclohexane	1.090	1.023		-6.15	20
2-Butanone	0.397	0.423		6.55	20
Carbon Tetrachloride	0.547	0.579		5.85	20
2,2-Dichloropropane	1.052	1.120		6.46	20
cis-1,2-Dichloroethene	0.688	0.705		2.47	20
Chloroform	1.213	1.232		1.57	20
1,1,1-Trichloroethane	1.116	1.149		2.96	20
Methylcyclohexane	0.548	0.600		9.49	20
1,1-Dichloropropene	0.482	0.494		2.49	20
Benzene	1.450	1.541		6.28	20
1,2-Dichloroethane	0.542	0.581		7.2	20
Trichloroethene	0.336	0.352		4.76	20
1,2-Dichloropropane	0.350	0.380		8.57	20
Dibromomethane	0.245	0.264		7.76	20
Bromodichloromethane	0.531	0.588		10.73	20
4-Methyl-2-Pentanone	0.431	0.497		15.31	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: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG No.: P3845

Instrument ID: MSVOA_N Calibration Date/Time: 09/11/2024 12:59

Lab File ID: VN083791.D Init. Calib. Date(s): 09/10/2024 09/10/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:08 12:43

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Methyl methacrylate	0.376	0.431		14.63	20
Toluene	0.887	0.956		7.78	20
t-1,3-Dichloropropene	0.539	0.591		9.65	20
cis-1,3-Dichloropropene	0.566	0.623		10.07	20
1,1,2-Trichloroethane	0.331	0.352		6.34	20
1,3-Dichloropropane	0.569	0.618		8.61	20
2-Chloroethyl Vinyl ether	0.184	0.242		31.52	20
2-Hexanone	0.319	0.373		16.93	20
Dibromochloromethane	0.371	0.416		12.13	20
1,2-Dibromoethane	0.330	0.358		8.48	20
Tetrachloroethene	0.333	0.338		1.5	20
Chlorobenzene	1.111	1.131	0.3	1.8	20
1,1,1,2-Tetrachloroethane	0.385	0.405		5.2	20
Hexachloroethane	0.638	0.655		2.66	20
Ethyl Benzene	1.974	2.126		7.7	20
m/p-Xylenes	0.733	0.787		7.37	20
o-Xylene	0.710	0.775		9.15	20
Styrene	1.164	1.300		11.68	20
Bromoform	0.260	0.301	0.1	15.77	20
Isopropylbenzene	3.868	3.980		2.9	20
1,1,2,2-Tetrachloroethane	1.137	1.122	0.3	-1.32	20
1,2,3-Trichloropropane	0.984	0.979		-0.51	20
Bromobenzene	0.931	0.895		-3.87	20
n-propylbenzene	4.501	4.733		5.15	20
2-Chlorotoluene	2.870	2.869		-0.04	20
1,3,5-Trimethylbenzene	3.261	3.387		3.86	20
4-Chlorotoluene	2.880	2.920		1.39	20
tert-Butylbenzene	2.853	2.994		4.94	20
1,2,4-Trimethylbenzene	3.276	3.444		5.13	20
sec-Butylbenzene	3.784	4.068		7.51	20
p-Isopropyltoluene	3.172	3.419		7.79	20
1,3-Dichlorobenzene	1.757	1.693		-3.64	20
1,4-Dichlorobenzene	1.779	1.686		-5.28	20
n-Butylbenzene	2.848	2.956		3.79	20
1,2-Dichlorobenzene	1.696	1.687		-0.53	20
1,2-Dibromo-3-Chloropropane	0.227	0.247		8.81	20
1,2,4-Trichlorobenzene	0.910	0.894		-1.76	20
Hexachlorobutadiene	0.386	0.372		-3.63	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: CHEM02
 Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG No.: P3845
 Instrument ID: MSVOA_N Calibration Date/Time: 09/11/2024 12:59
 Lab File ID: VN083791.D Init. Calib. Date(s): 09/10/2024 09/10/2024
 Heated Purge: (Y/N) N Init. Calib. Time(s): 09:08 12:43
 GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Naphthalene	2.769	2.910		5.09	20
1,2,3-Trichlorobenzene	0.870	0.854		-1.84	20
1,2-Dichloroethane-d4	0.754	0.740		-1.86	20
Dibromofluoromethane	0.320	0.308		-3.75	20
Toluene-d8	1.107	1.130		2.08	20
4-Bromofluorobenzene	0.457	0.447		-2.19	20
N-amyI acetate	1.650	1.801		9.15	20
Allyl chloride	0.964	1.011		4.88	20
trans-1,4-Dichloro-2-butene	0.385	0.411		6.75	20
Methacrylonitrile	0.259	0.292		12.74	20
1,4-Dioxane	6.185	6.891	0.05	11.41	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_N\Data\VN091124\
 Data File : VN083791.D
 Acq On : 11 Sep 2024 12:59
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/12/2024
 Supervised By : Mahesh Dadoda 09/12/2024

Quant Time: Sep 12 02:06:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 15:18:56 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	152640	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	259748	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	228788	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	116418	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	113022	49.106	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.220%		
35) Dibromofluoromethane	8.165	113	80124	48.184	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.360%		
50) Toluene-d8	10.565	98	293562	51.066	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.140%		
62) 4-Bromofluorobenzene	12.847	95	116001	48.909	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	97.820%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	92853	52.380	ug/l	95
3) Chloromethane	2.359	50	96483	53.426	ug/l	97
4) Vinyl Chloride	2.512	62	98446	50.667	ug/l	96
5) Bromomethane	2.906	94	55805	50.023	ug/l	100
6) Chloroethane	3.077	64	66402	48.719	ug/l	93
7) Trichlorofluoromethane	3.471	101	168204	50.999	ug/l	97
8) Diethyl Ether	3.953	74	57405	51.923	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.359	101	93036	53.219	ug/l	97
10) Methyl Iodide	4.583	142	114902	51.680	ug/l	96
11) Tert butyl alcohol	5.530	59	82327	267.118	ug/l	99
12) 1,1-Dichloroethene	4.330	96	83287	50.448	ug/l	96
13) Acrolein	4.171	56	77151	253.706	ug/l	96
14) Allyl chloride	5.012	41	154256	52.436	ug/l	98
15) Acrylonitrile	5.712	53	221249	263.967	ug/l	98
16) Acetone	4.424	43	248789	269.645	ug/l	99
17) Carbon Disulfide	4.700	76	218851	47.389	ug/l	99
18) Methyl Acetate	5.024	43	107359	56.072	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	311194	52.089	ug/l	98
20) Methylene Chloride	5.271	84	95892	50.788	ug/l	87
21) trans-1,2-Dichloroethene	5.777	96	86440	48.855	ug/l	89
22) Diisopropyl ether	6.671	45	322165	53.200	ug/l	98
23) Vinyl Acetate	6.600	43	1228060	276.919	ug/l	99
24) 1,1-Dichloroethane	6.565	63	175379	50.268	ug/l	99
25) 2-Butanone	7.482	43	322514	265.951	ug/l	98
26) 2,2-Dichloropropane	7.488	77	170992	53.219	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	107623	51.241	ug/l	97
28) Bromochloromethane	7.812	49	73121	49.768	ug/l	96
29) Tetrahydrofuran	7.835	42	196268	273.716	ug/l	98
30) Chloroform	7.965	83	187996	50.756	ug/l	98
31) Cyclohexane	8.253	56	156154	46.943	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	175429	51.509	ug/l	98
36) 1,1-Dichloropropene	8.365	75	128219	51.229	ug/l	99
37) Ethyl Acetate	7.559	43	132317	58.242	ug/l	98
38) Carbon Tetrachloride	8.359	117	150427	52.977	ug/l	100
39) Methylcyclohexane	9.600	83	155833	54.700	ug/l	99
40) Benzene	8.600	78	400377	53.148	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
 Data File : VN083791.D
 Acq On : 11 Sep 2024 12:59
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/12/2024
 Supervised By :Mahesh Dadoda 09/12/2024

Quant Time: Sep 12 02:06:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 15:18:56 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	75956	56.528	ug/l	97
42) 1,2-Dichloroethane	8.671	62	150827	53.581	ug/l	100
43) Isopropyl Acetate	8.688	43	291272	70.750	ug/l	93
44) Trichloroethene	9.353	130	91400	52.393	ug/l	97
45) 1,2-Dichloropropane	9.618	63	98666	54.190	ug/l	98
46) Dibromomethane	9.706	93	68589	53.782	ug/l	99
47) Bromodichloromethane	9.888	83	152824	55.370	ug/l	97
48) Methyl methacrylate	9.682	41	111880	57.280	ug/l	98
49) 1,4-Dioxane	9.694	88	35797	1114.069	ug/l #	100
51) 4-Methyl-2-Pentanone	10.447	43	645061	287.840	ug/l	98
52) Toluene	10.629	92	248372	53.901	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	153430	54.843	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	161745	55.039	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	91325	53.088	ug/l	98
56) Ethyl methacrylate	10.876	69	154978	58.555	ug/l	96
57) 1,3-Dichloropropane	11.165	76	160620	54.326	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	314176	329.440	ug/l	97
59) 2-Hexanone	11.194	43	484844	292.470	ug/l	98
60) Dibromochloromethane	11.359	129	107933	56.063	ug/l	99
61) 1,2-Dibromoethane	11.470	107	92995	54.204	ug/l	98
64) Tetrachloroethene	11.100	164	77234	50.762	ug/l	97
65) Chlorobenzene	11.888	112	258778	50.891	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	92724	52.601	ug/l	98
67) Ethyl Benzene	11.965	91	486481	53.856	ug/l	98
68) m/p-Xylenes	12.070	106	360018	107.352	ug/l	98
69) o-Xylene	12.400	106	177365	54.632	ug/l	98
70) Styrene	12.412	104	297348	55.807	ug/l	99
71) Bromoform	12.582	173	68948	58.043	ug/l #	99
73) Isopropylbenzene	12.694	105	463364	51.446	ug/l	99
74) N-amyl acetate	12.494	43	209696	54.568	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	130573	49.340	ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	113955m	48.510	ug/l	
77) Bromobenzene	12.976	156	104216	48.069	ug/l	99
78) n-propylbenzene	13.035	91	550980	52.577	ug/l	99
79) 2-Chlorotoluene	13.123	91	333983	49.973	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	394325	51.928	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	47836	53.334	ug/l	87
82) 4-Chlorotoluene	13.223	91	339883	50.677	ug/l	100
83) tert-Butylbenzene	13.435	119	348498	52.456	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	400930	52.561	ug/l	100
85) sec-Butylbenzene	13.617	105	473533	53.744	ug/l	99
86) p-Isopropyltoluene	13.729	119	398051	53.893	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	197047	48.158	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	196222	47.361	ug/l	99
89) n-Butylbenzene	14.053	91	344110	51.891	ug/l	99
90) Hexachloroethane	14.335	117	76196	51.321	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	196350	49.724	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	28797	54.588	ug/l	97
93) 1,2,4-Trichlorobenzene	15.394	180	104117	49.134	ug/l	97
94) Hexachlorobutadiene	15.500	225	43330	48.150	ug/l	97
95) Naphthalene	15.641	128	338814	52.555	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	99451	49.108	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083791.D
Acq On : 11 Sep 2024 12:59
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

Quant Time: Sep 12 02:06:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration

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

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

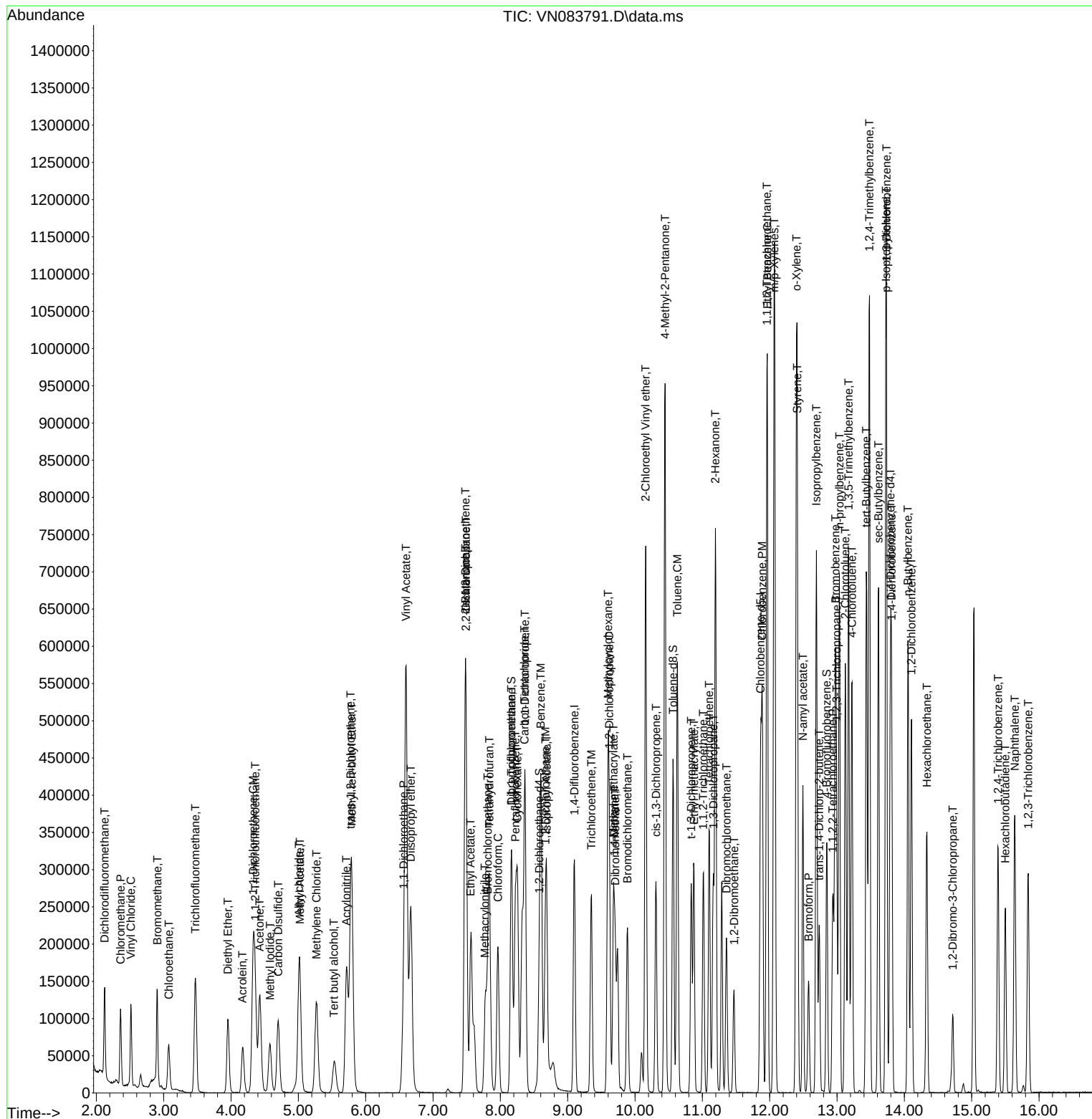
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083791.D
Acq On : 11 Sep 2024 12:59
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

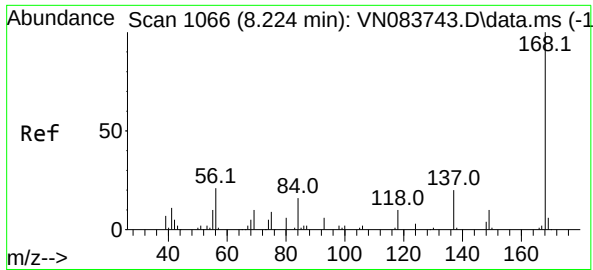
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

Quant Time: Sep 12 02:06:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration





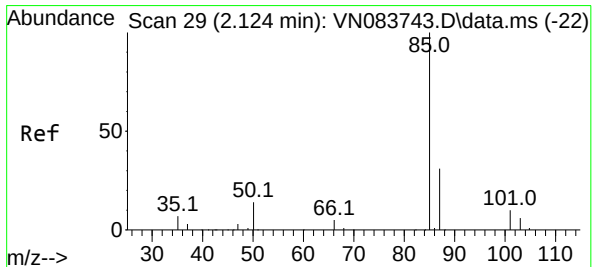
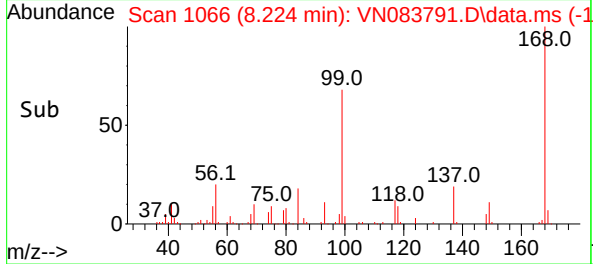
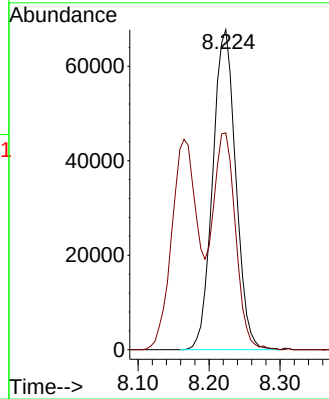
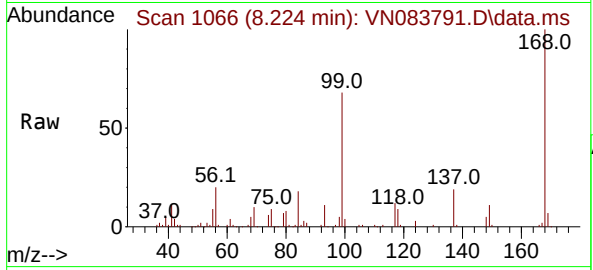
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 152640
Ion Ratio Lower Upper
168 100
99 67.7 54.2 81.2

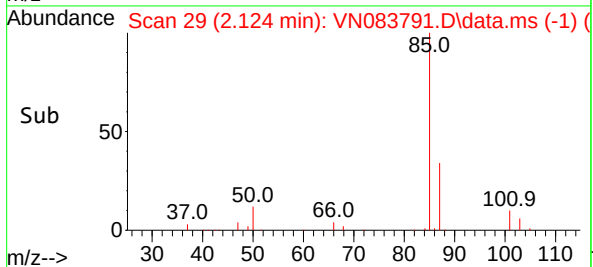
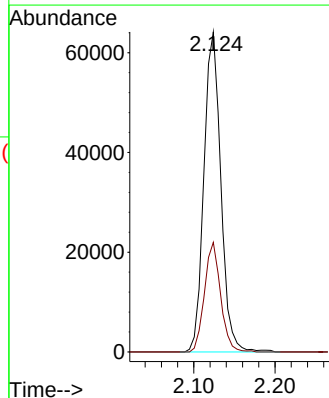
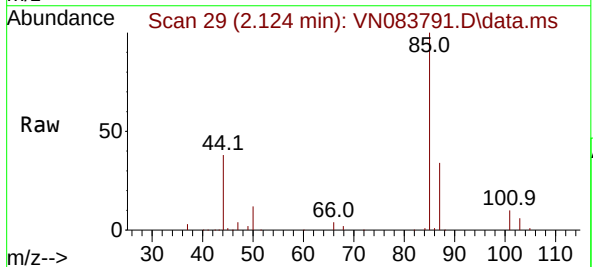
Manual Integrations
APPROVED

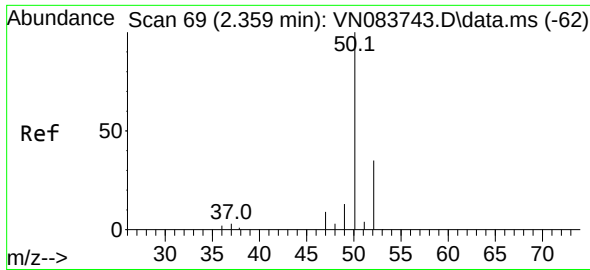
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#2
Dichlorodifluoromethane
Concen: 52.380 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 85 Resp: 92853
Ion Ratio Lower Upper
85 100
87 34.3 15.7 47.0





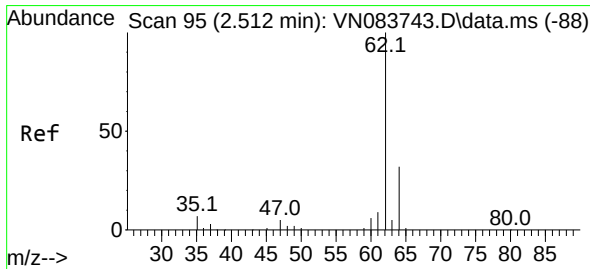
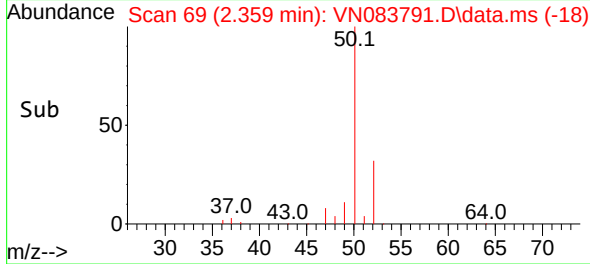
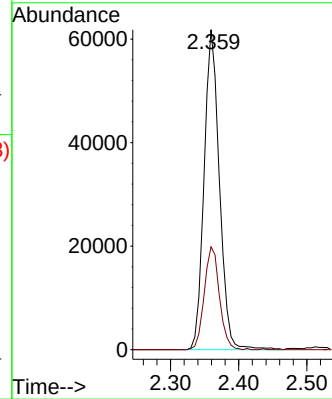
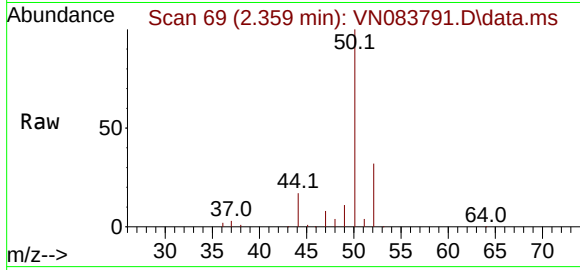
#3
Chloromethane
Concen: 53.426 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 9648
Ion Ratio Lower Upper
50 100
52 32.2 27.2 40.8

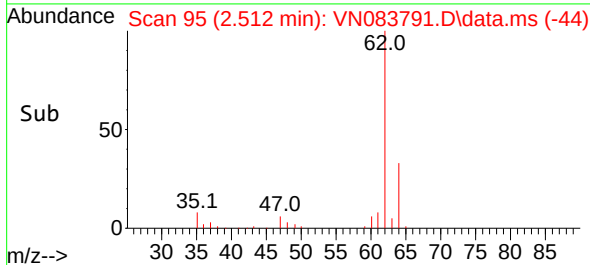
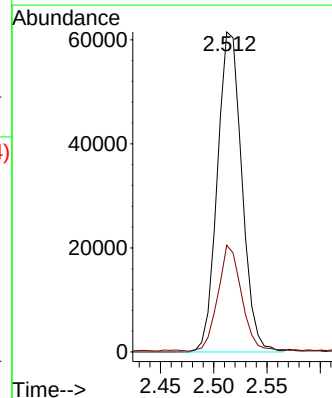
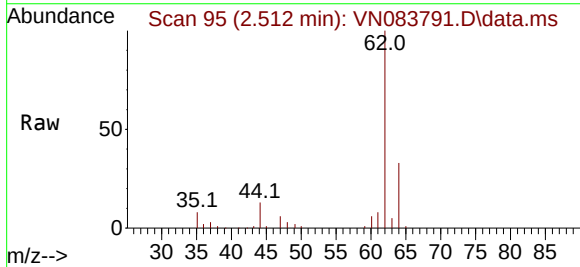
Manual Integrations
APPROVED

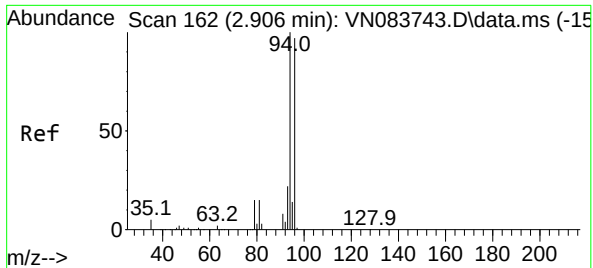
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#4
Vinyl Chloride
Concen: 50.667 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 62 Resp: 98446
Ion Ratio Lower Upper
62 100
64 33.0 24.7 37.1





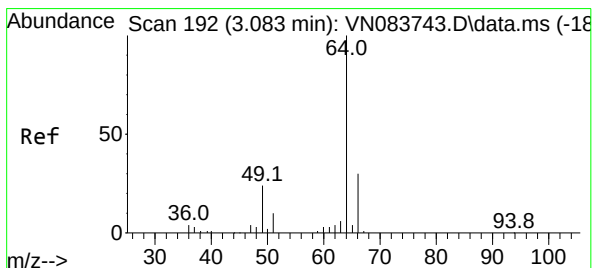
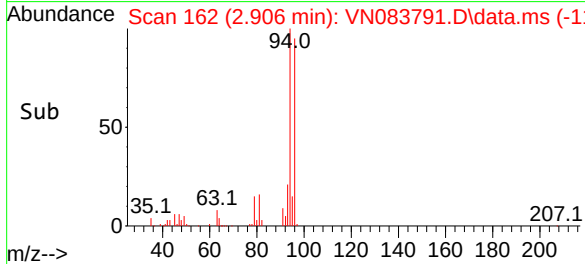
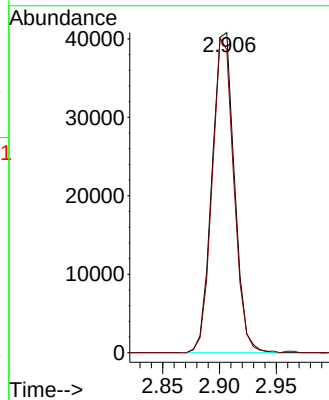
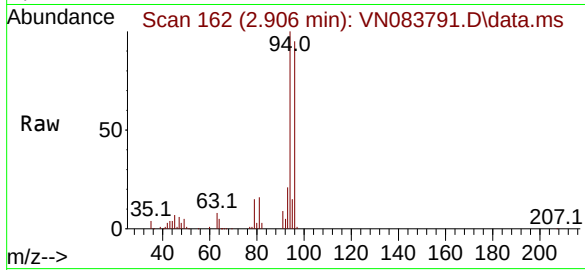
#5
Bromomethane
Concen: 50.023 ug/l
RT: 2.906 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 5580
Ion Ratio Lower Upper
94 100
96 94.6 76.0 114.0

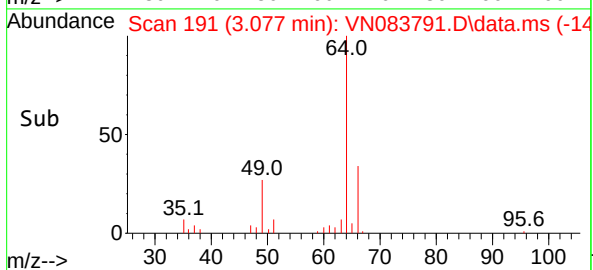
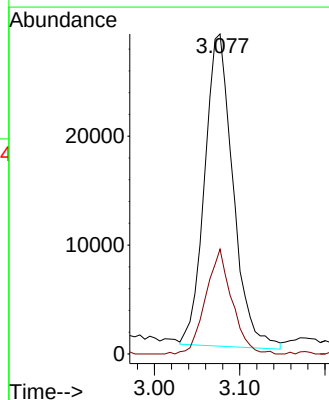
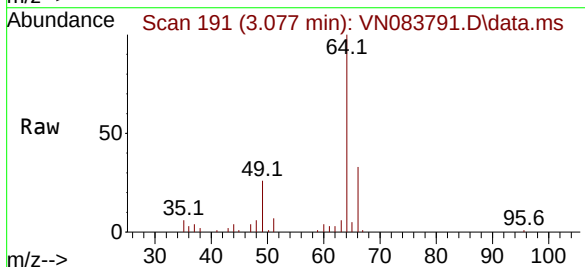
Manual Integrations
APPROVED

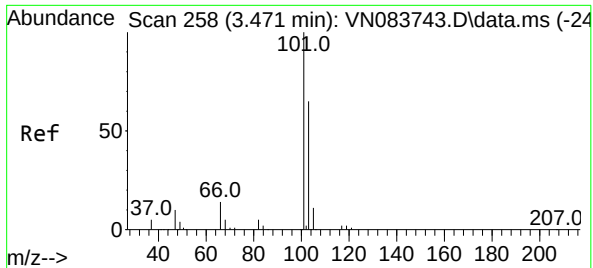
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#6
Chloroethane
Concen: 48.719 ug/l
RT: 3.077 min Scan# 191
Delta R.T. -0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

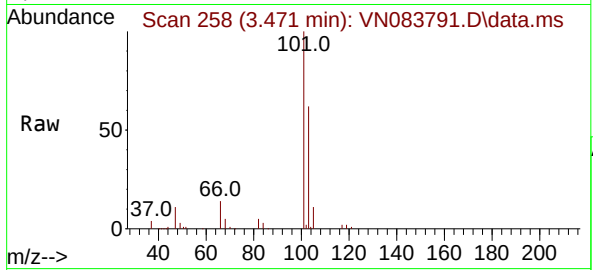
Tgt Ion: 64 Resp: 66402
Ion Ratio Lower Upper
64 100
66 33.9 23.9 35.9





#7
Trichlorofluoromethane
Concen: 50.999 ug/l
RT: 3.471 min Scan# 258
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

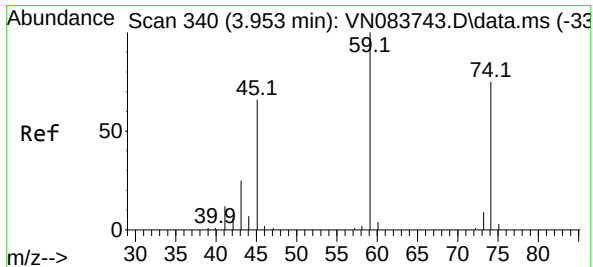
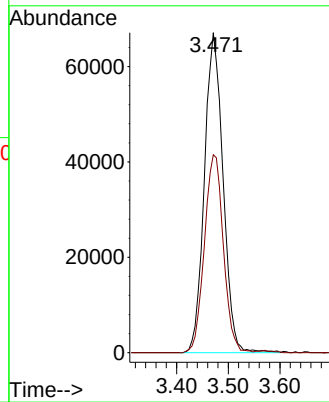
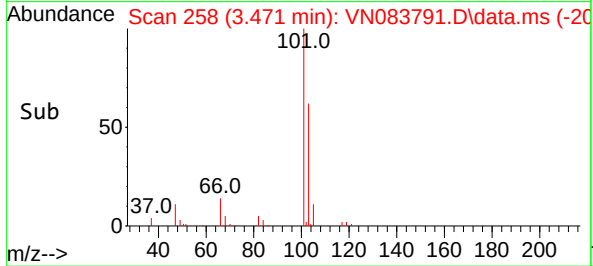
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:101 Resp: 168204
Ion Ratio Lower Upper
101 100
103 61.9 51.4 77.0

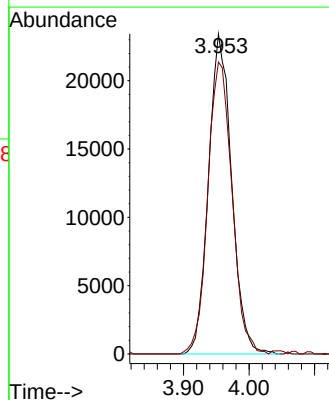
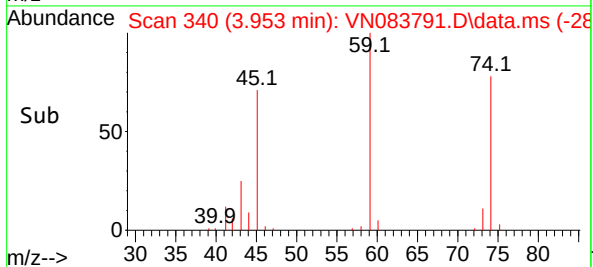
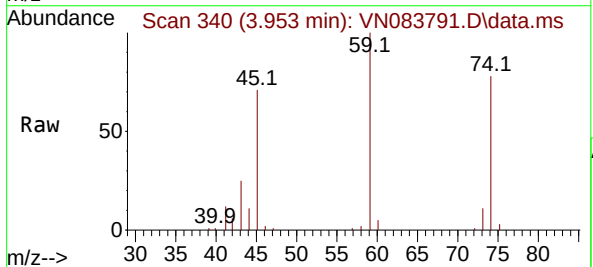
Manual Integrations
APPROVED

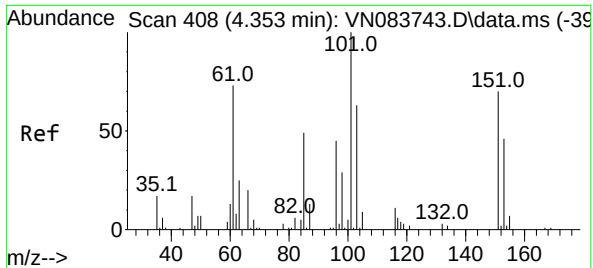
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#8
Diethyl Ether
Concen: 51.923 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 74 Resp: 57405
Ion Ratio Lower Upper
74 100
45 95.5 46.7 140.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 53.219 ug/l

RT: 4.359 min Scan# 408

Delta R.T. 0.006 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:101 Resp: 93036

Ion Ratio Lower Upper

101 100

85 47.7 36.2 54.4

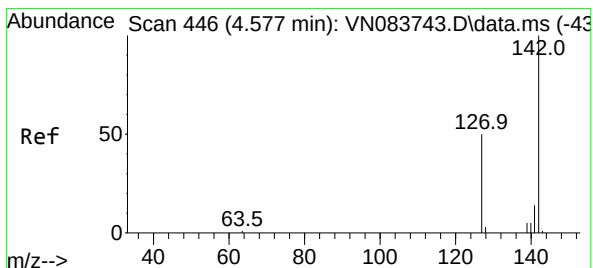
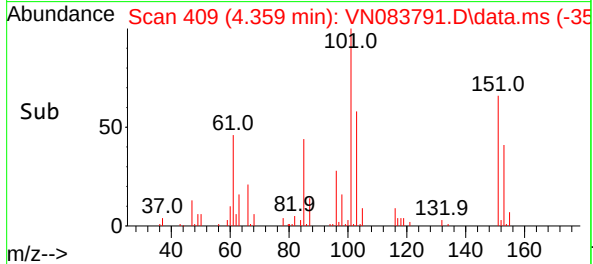
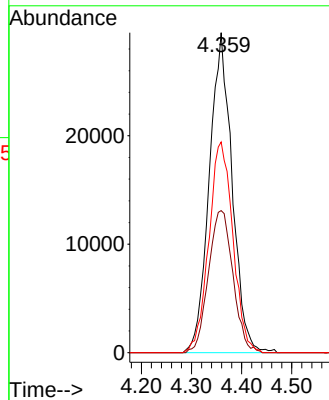
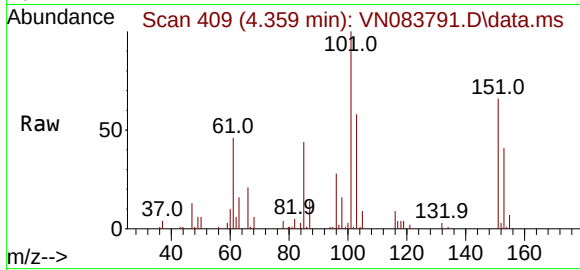
151 69.6 57.7 86.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#10

Methyl Iodide

Concen: 51.680 ug/l

RT: 4.583 min Scan# 447

Delta R.T. 0.006 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

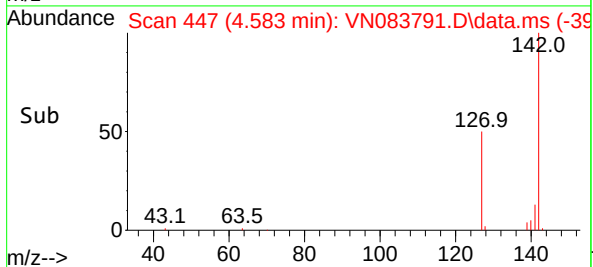
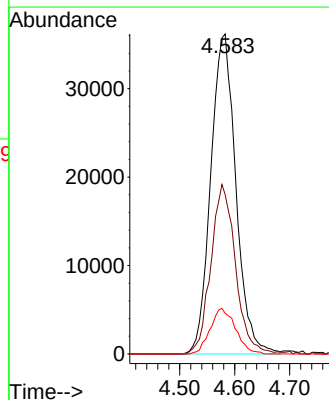
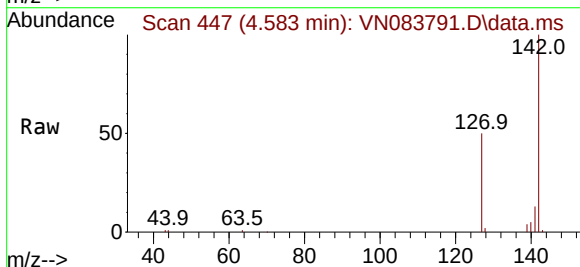
Tgt Ion:142 Resp: 114902

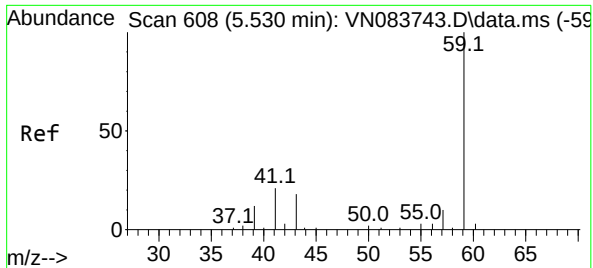
Ion Ratio Lower Upper

142 100

127 49.8 37.5 56.3

141 12.7 11.0 16.4





#11

Tert butyl alcohol

Concen: 267.118 ug/l

RT: 5.530 min Scan# 608

Delta R.T. -0.000 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 8232

Ion Ratio Lower Upper

59 100

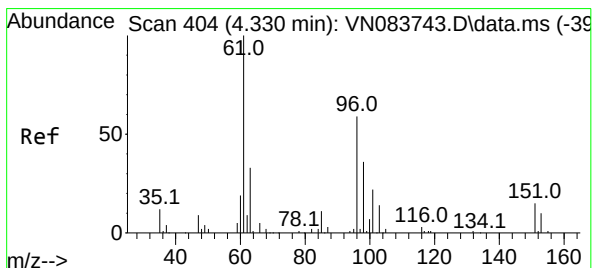
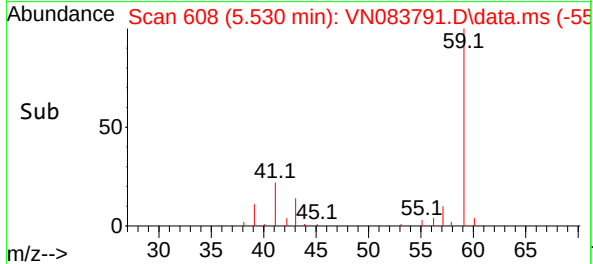
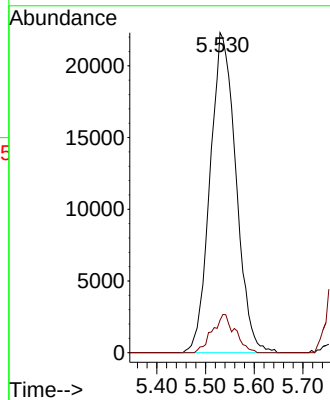
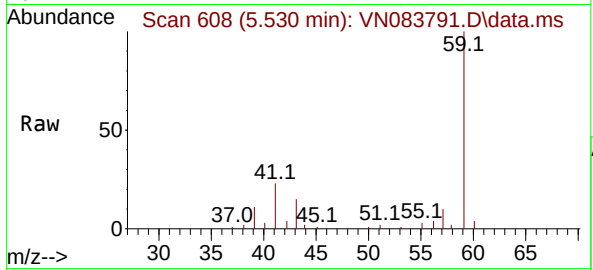
57 10.6 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#12

1,1-Dichloroethene

Concen: 50.448 ug/l

RT: 4.330 min Scan# 404

Delta R.T. -0.000 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

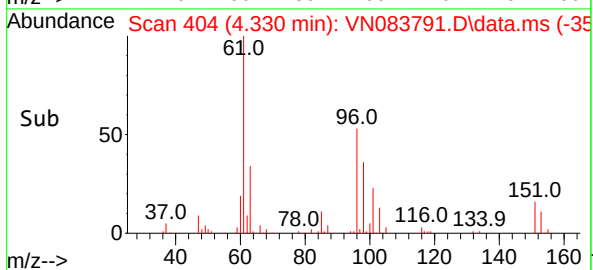
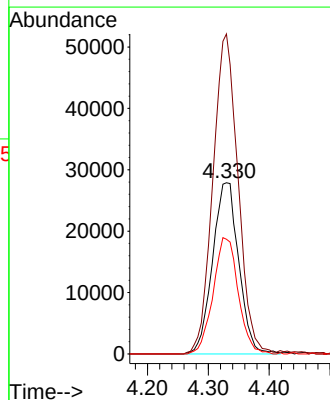
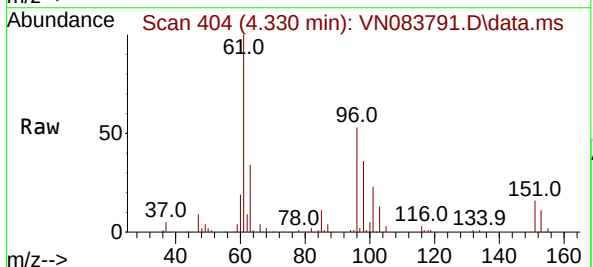
Tgt Ion: 96 Resp: 83287

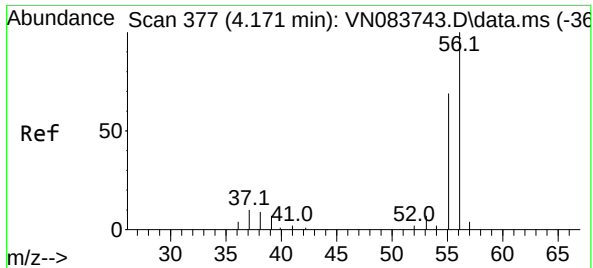
Ion Ratio Lower Upper

96 100

61 187.0 143.4 215.0

98 67.0 52.7 79.1





#13

Acrolein

Concen: 253.706 ug/l

RT: 4.171 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 7715

Ion Ratio Lower Upper

56 100

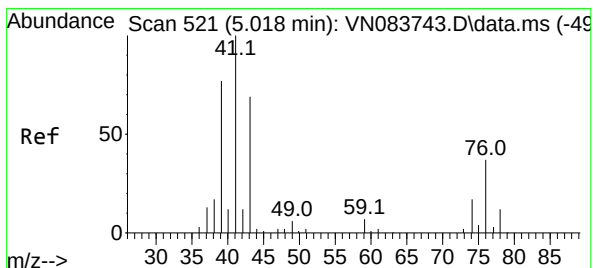
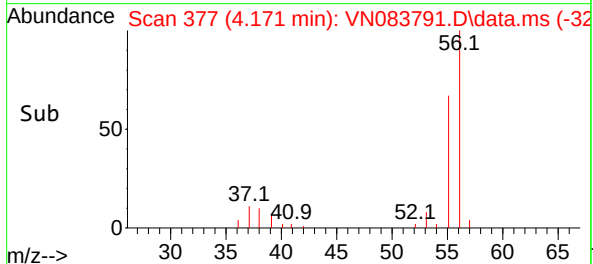
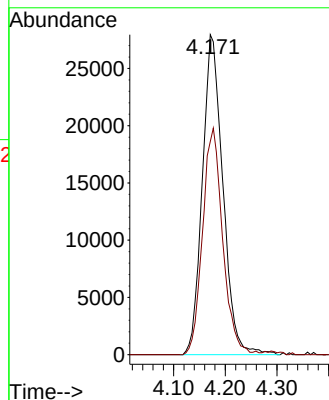
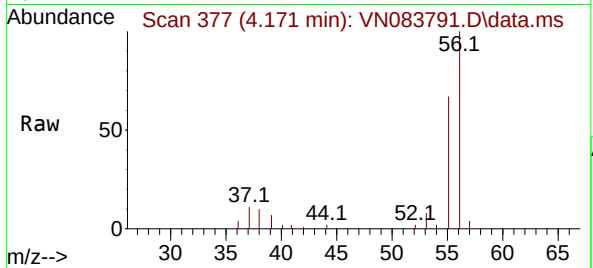
55 69.2 58.2 87.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#14

Allyl chloride

Concen: 52.436 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.006 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

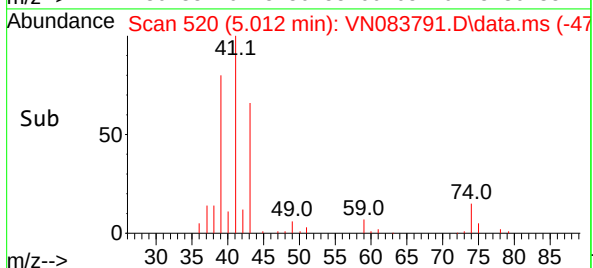
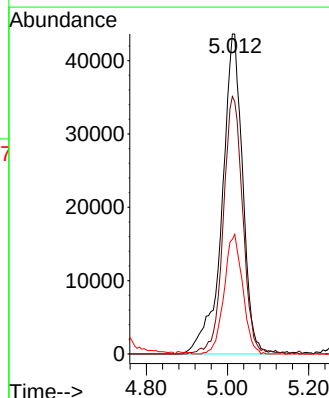
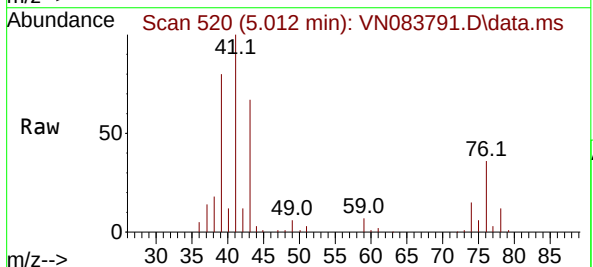
Tgt Ion: 41 Resp: 154256

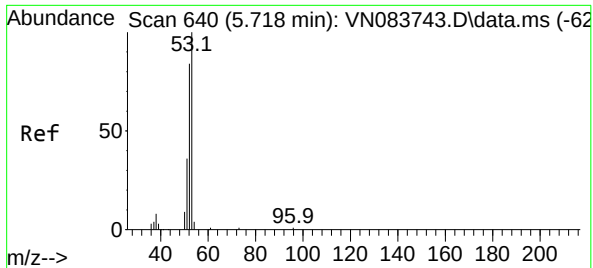
Ion Ratio Lower Upper

41 100

39 75.6 59.3 88.9

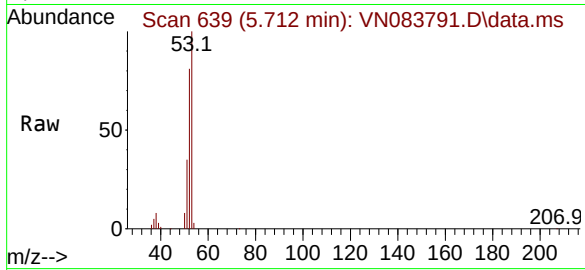
76 33.6 27.7 41.5





#15
Acrylonitrile
Concen: 263.967 ug/l
RT: 5.712 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

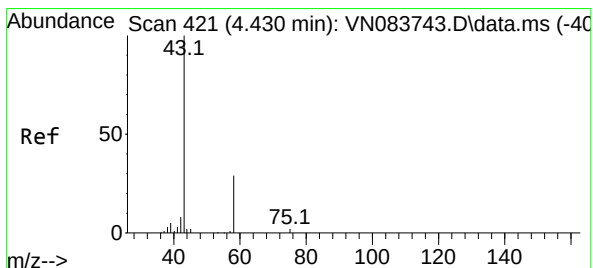
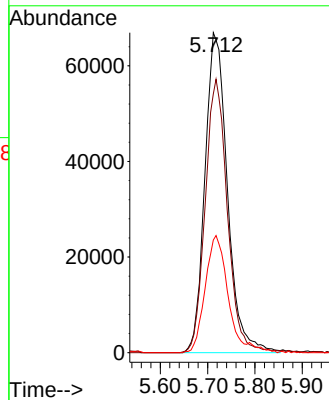
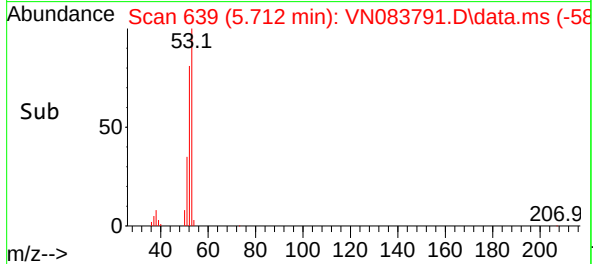
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 53 Resp: 221249
Ion Ratio Lower Upper
53 100
52 84.5 66.1 99.1
51 37.5 29.6 44.4

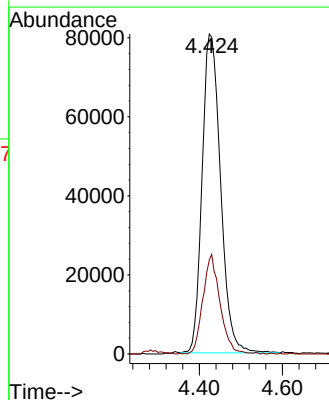
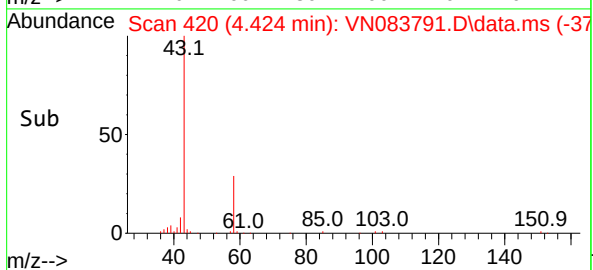
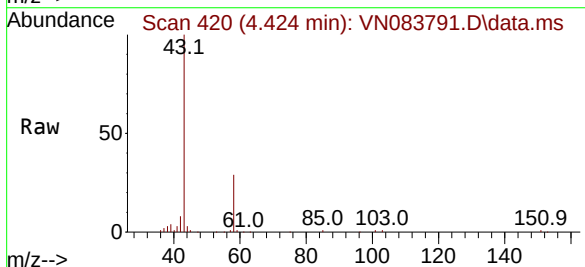
Manual Integrations
APPROVED

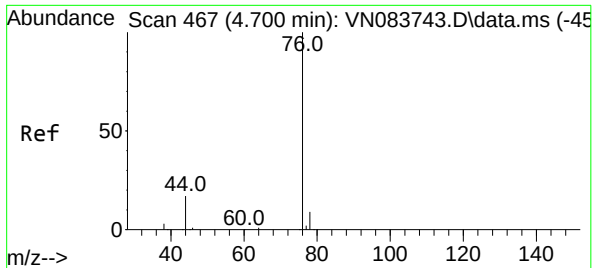
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#16
Acetone
Concen: 269.645 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

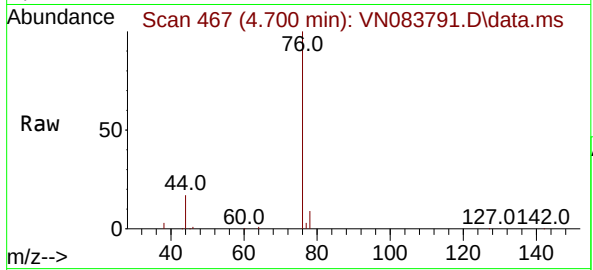
Tgt Ion: 43 Resp: 248789
Ion Ratio Lower Upper
43 100
58 29.3 23.7 35.5





#17
Carbon Disulfide
Concen: 47.389 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

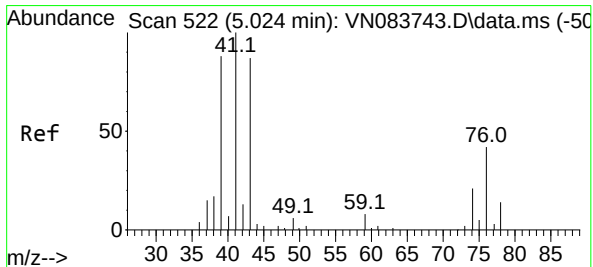
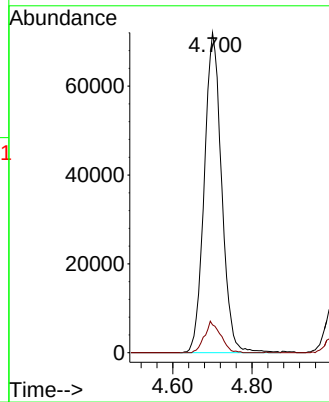
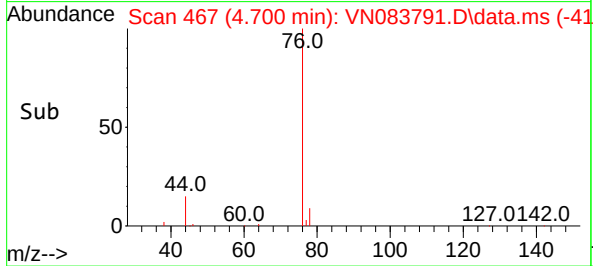
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 76 Resp: 21885
Ion Ratio Lower Upper
76 100
78 8.7 7.1 10.7

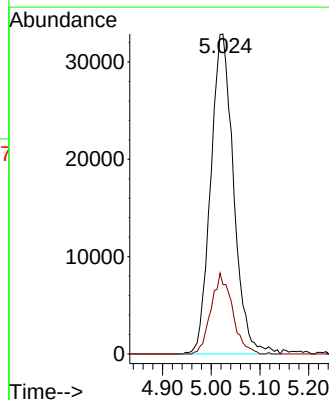
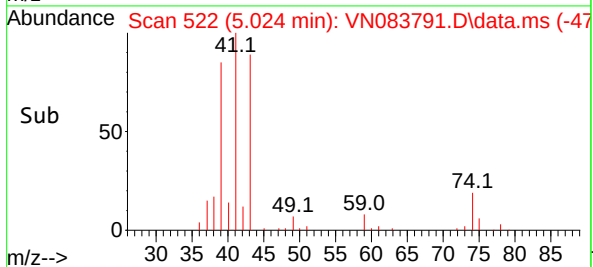
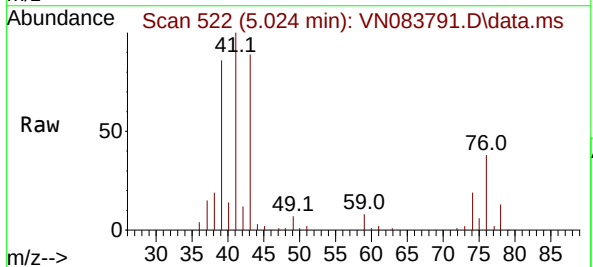
Manual Integrations
APPROVED

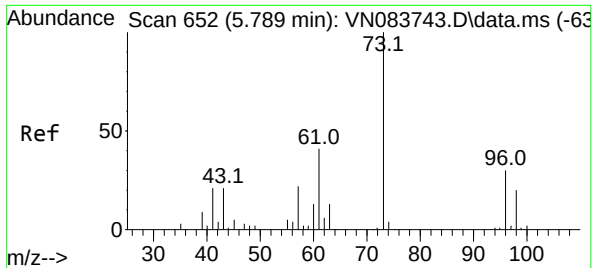
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#18
Methyl Acetate
Concen: 56.072 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 43 Resp: 107359
Ion Ratio Lower Upper
43 100
74 23.6 19.0 28.4





#19

Methyl tert-butyl Ether

Concen: 52.089 ug/l

RT: 5.794 min Scan# 611

Delta R.T. 0.006 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 311194

Ion Ratio Lower Upper

73 100

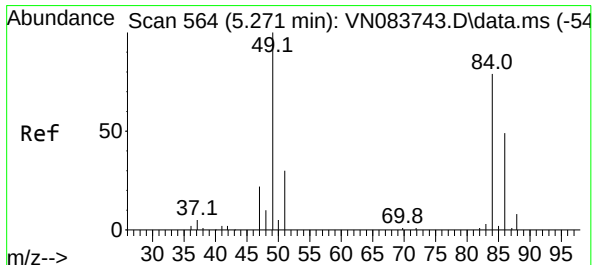
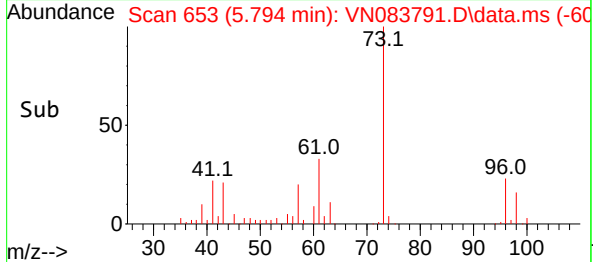
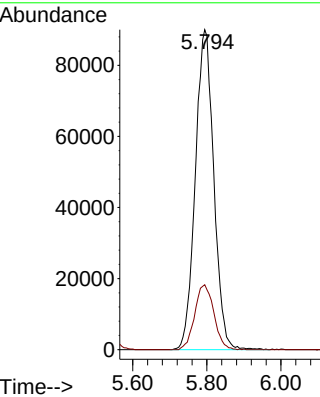
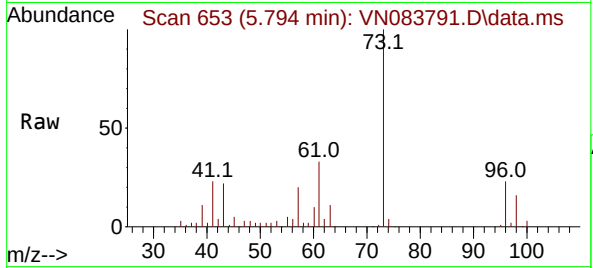
57 20.3 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#20

Methylene Chloride

Concen: 50.788 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.000 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

Tgt Ion: 84 Resp: 95892

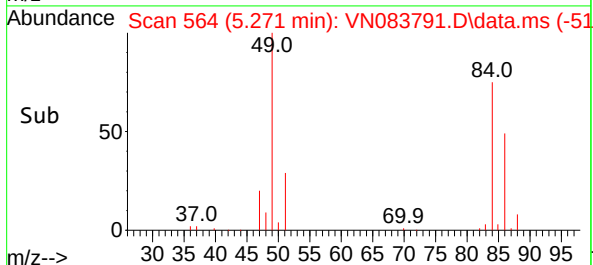
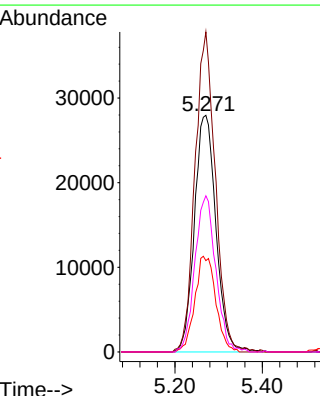
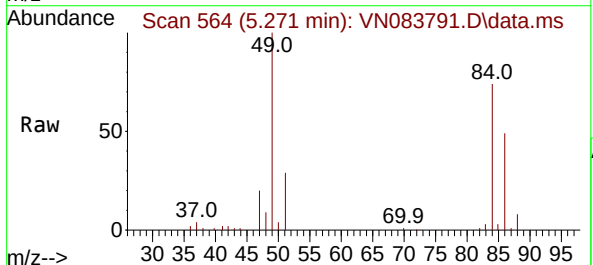
Ion Ratio Lower Upper

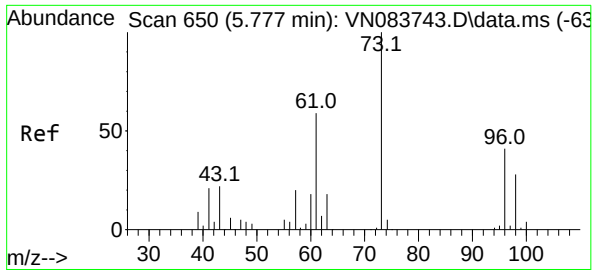
84 100

49 135.3 93.4 140.0

51 38.6 29.2 43.8

86 66.0 46.9 70.3





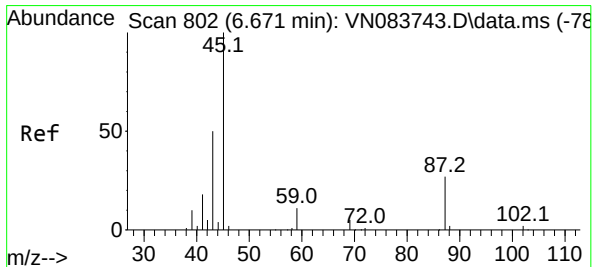
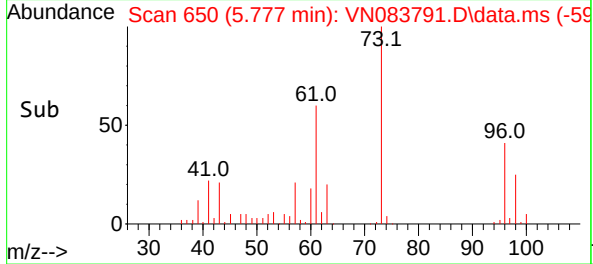
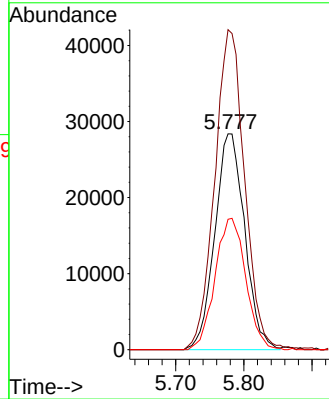
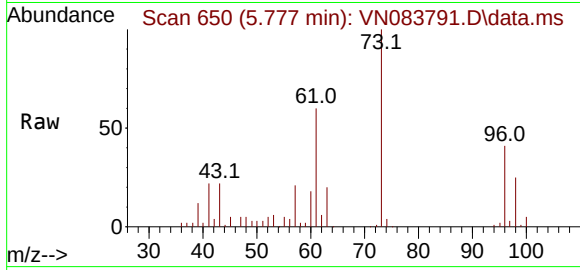
#21
trans-1,2-Dichloroethene
Concen: 48.855 ug/l
RT: 5.777 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 86440
Ion Ratio Lower Upper
96 100
61 148.3 106.0 159.0
98 60.4 52.2 78.2

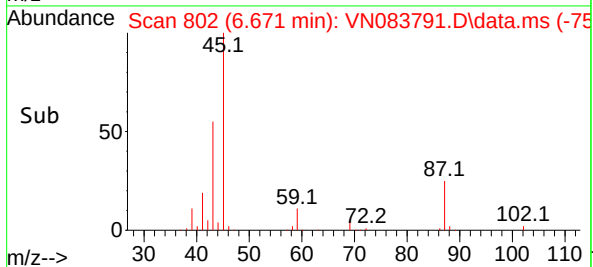
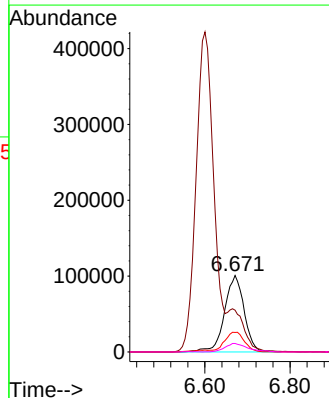
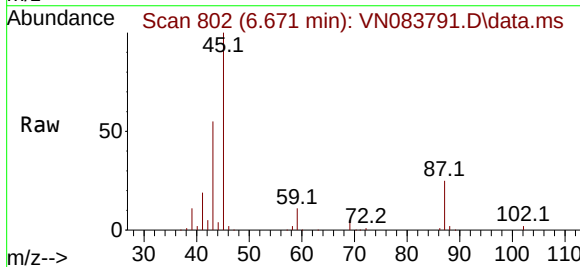
Manual Integrations
APPROVED

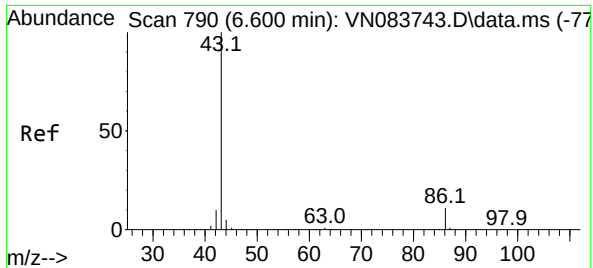
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#22
Diisopropyl ether
Concen: 53.200 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 45 Resp: 322165
Ion Ratio Lower Upper
45 100
43 53.7 43.4 65.0
87 25.5 22.6 33.8
59 11.1 9.1 13.7





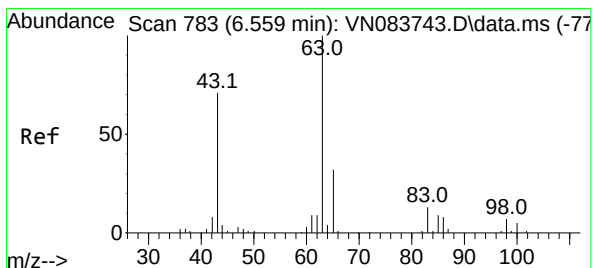
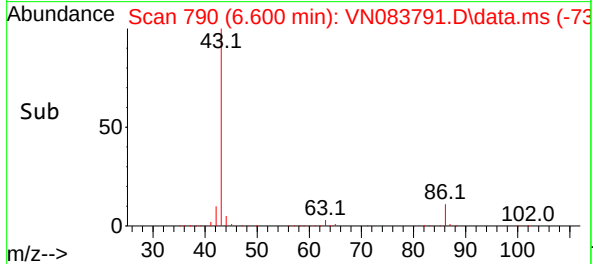
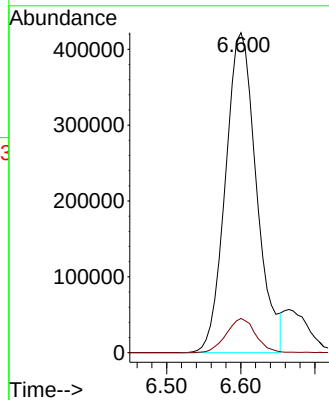
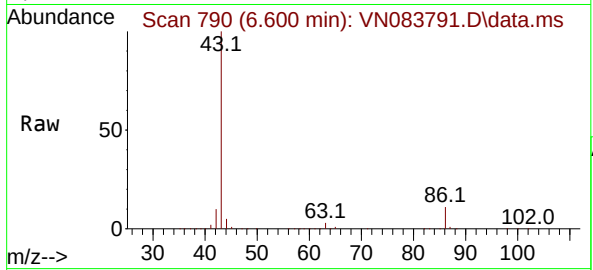
#23
Vinyl Acetate
Concen: 276.919 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1228060
Ion Ratio Lower Upper
43 100
86 10.7 8.7 13.1

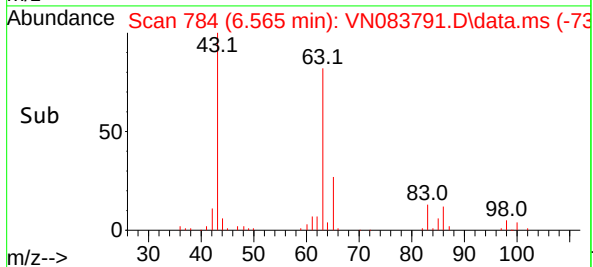
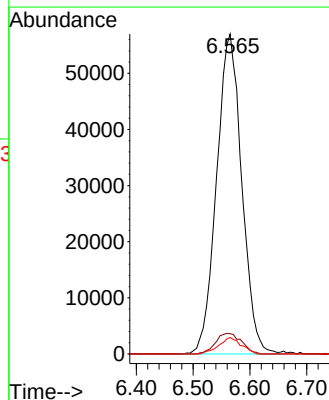
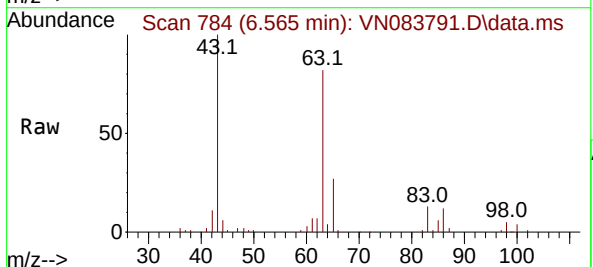
Manual Integrations
APPROVED

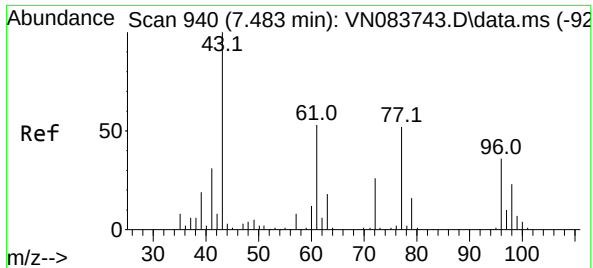
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#24
1,1-Dichloroethane
Concen: 50.268 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

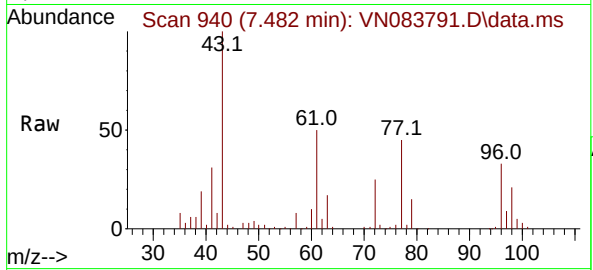
Tgt Ion: 63 Resp: 175379
Ion Ratio Lower Upper
63 100
98 6.3 3.5 10.4
100 5.1 2.5 7.5





#25
2-Butanone
Concen: 265.951 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

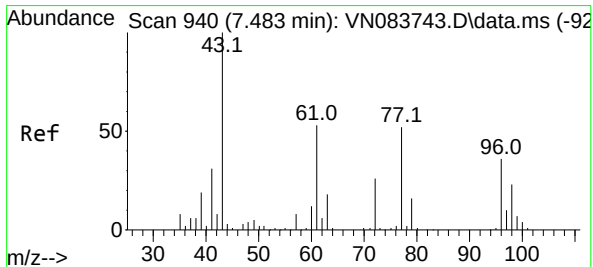
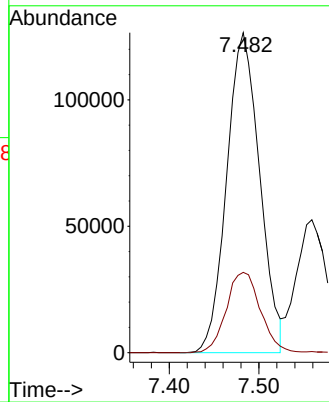
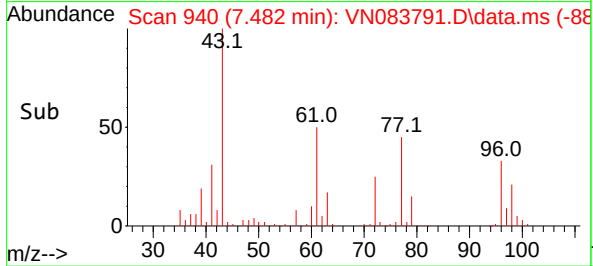
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



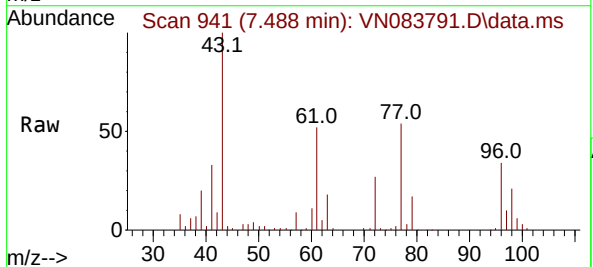
Tgt Ion: 43 Resp: 322514
Ion Ratio Lower Upper
43 100
72 25.1 20.8 31.2

Manual Integrations
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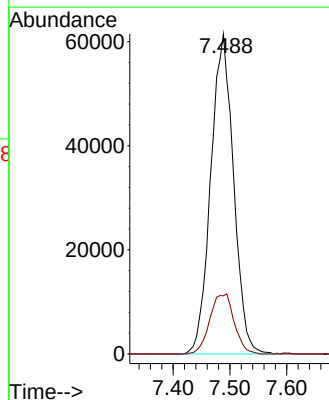
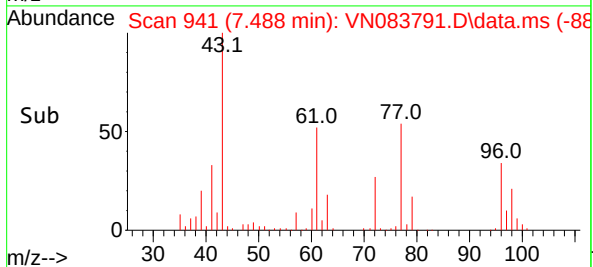
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

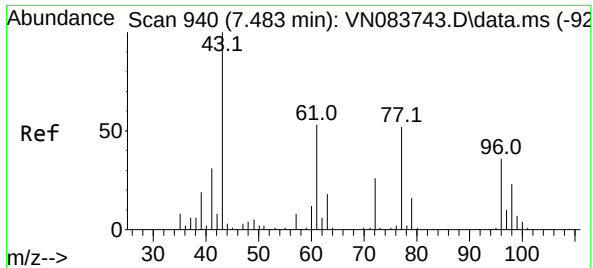


#26
2,2-Dichloropropane
Concen: 53.219 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59



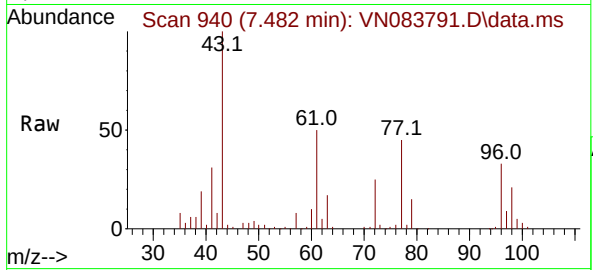
Tgt Ion: 77 Resp: 170992
Ion Ratio Lower Upper
77 100
97 20.0 10.2 30.4





#27
cis-1,2-Dichloroethene
Concen: 51.241 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

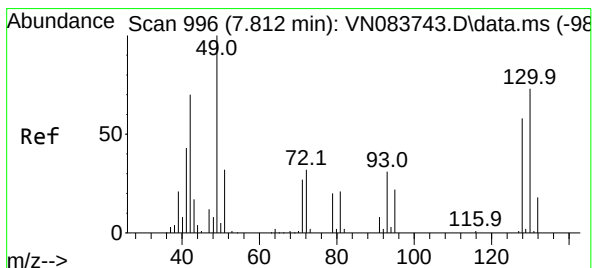
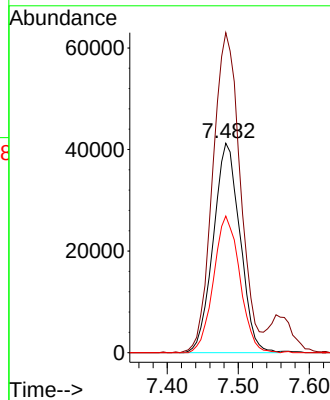
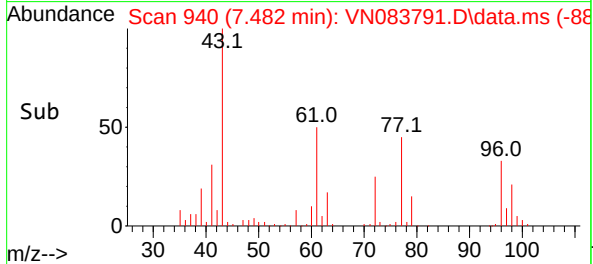
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 96 Resp: 10762
Ion Ratio Lower Upper
96 100
61 158.1 0.0 306.2
98 64.1 0.0 128.6

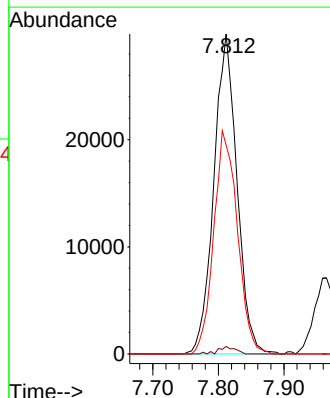
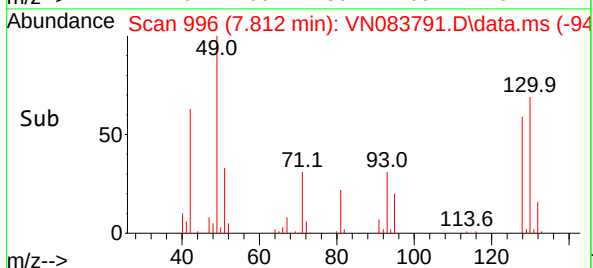
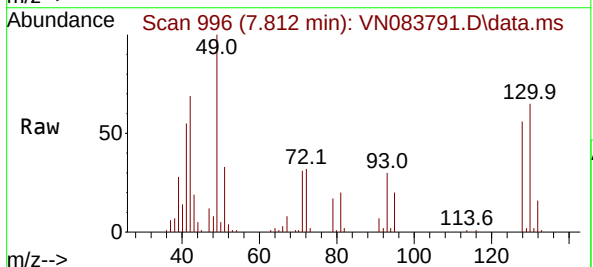
Manual Integrations
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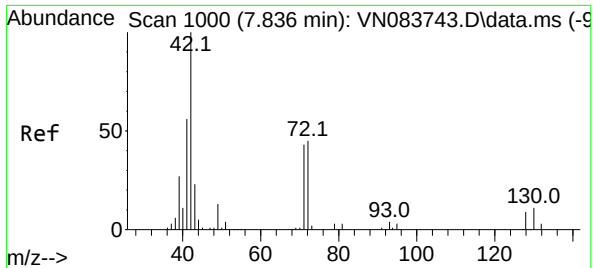
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#28
Bromochloromethane
Concen: 49.768 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 49 Resp: 73121
Ion Ratio Lower Upper
49 100
129 1.6 0.0 3.4
130 71.3 60.2 90.2





#29

Tetrahydrofuran

Concen: 273.716 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 196268

Ion Ratio Lower Upper

42 100

72 44.1 35.9 53.9

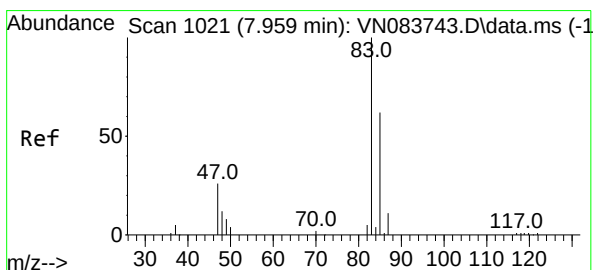
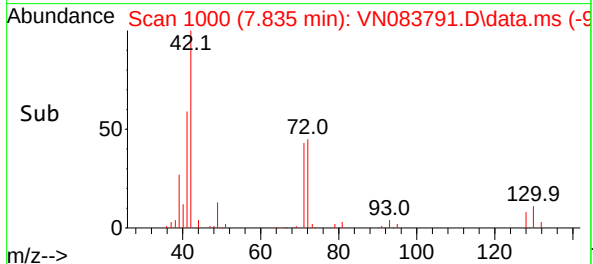
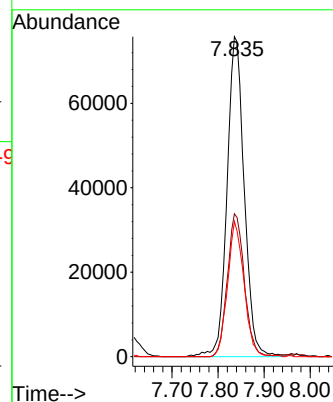
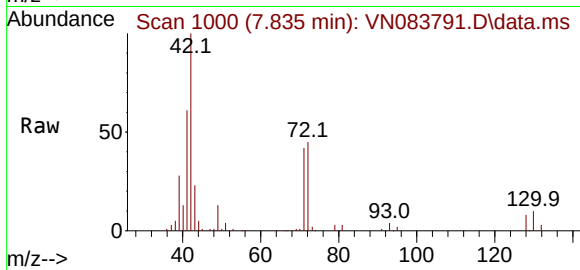
71 40.3 33.9 50.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#30

Chloroform

Concen: 50.756 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN083791.D

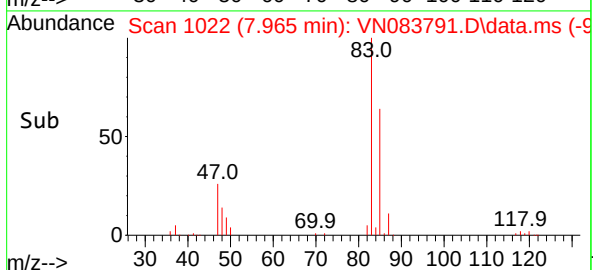
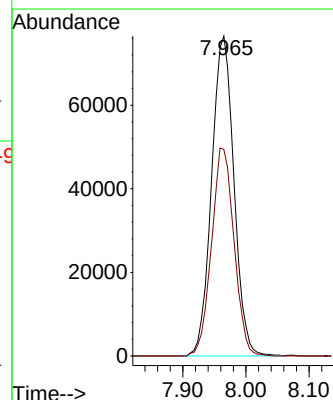
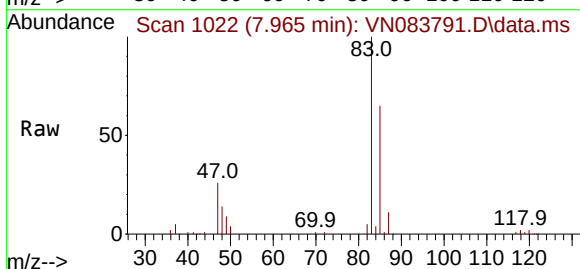
Acq: 11 Sep 2024 12:59

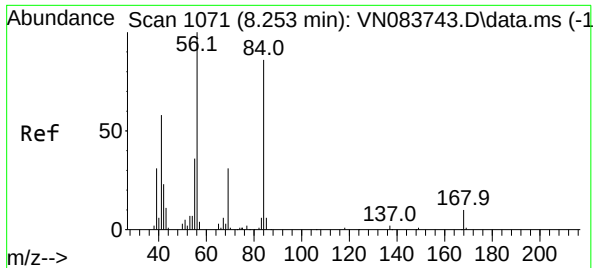
Tgt Ion: 83 Resp: 187996

Ion Ratio Lower Upper

83 100

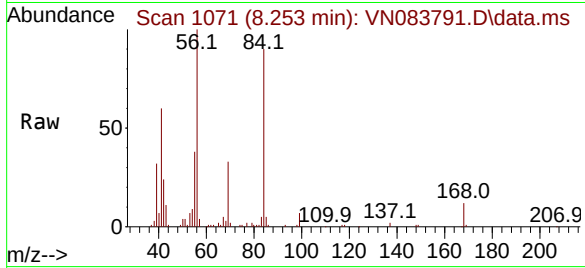
85 64.5 52.8 79.2





#31
Cyclohexane
Concen: 46.943 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

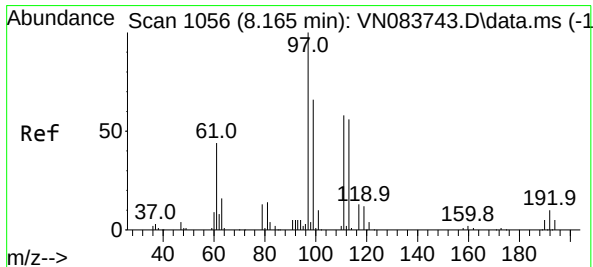
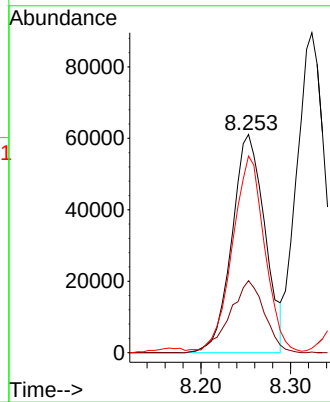
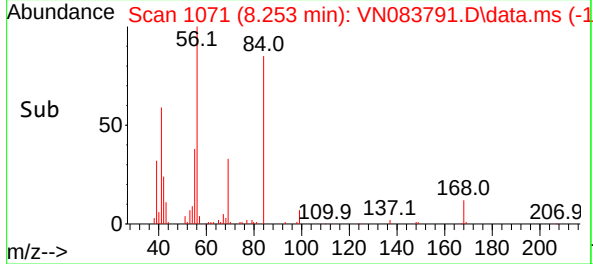
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 56 Resp: 156154
Ion Ratio Lower Upper
56 100
69 33.0 26.9 40.3
84 88.0 69.2 103.8

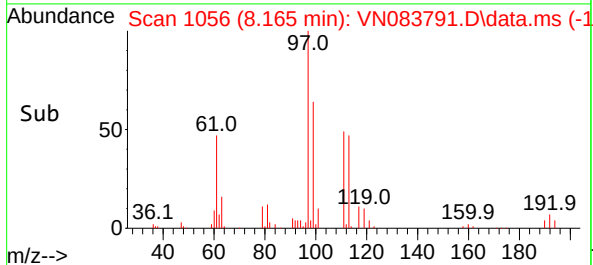
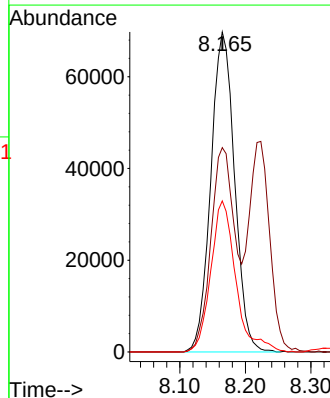
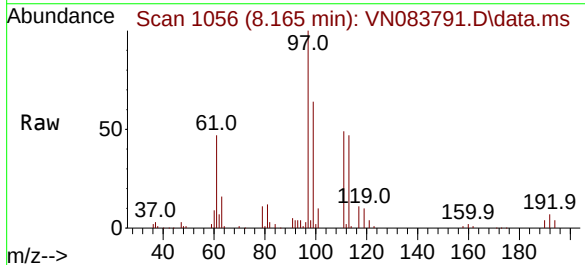
Manual Integrations
APPROVED

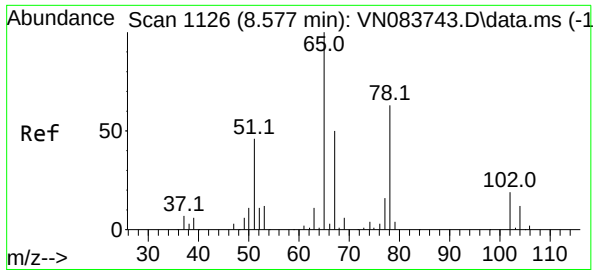
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#32
1,1,1-Trichloroethane
Concen: 51.509 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 97 Resp: 175429
Ion Ratio Lower Upper
97 100
99 64.8 52.3 78.5
61 49.7 38.2 57.2





#33

1,2-Dichloroethane-d4

Concen: 49.106 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 11302

Ion Ratio Lower Upper

65 100

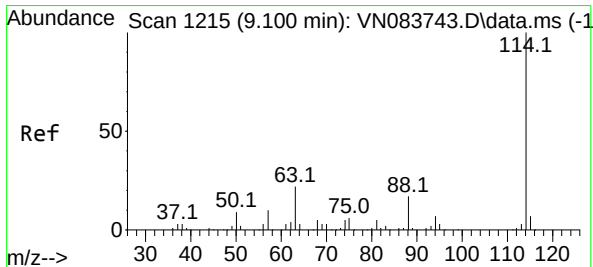
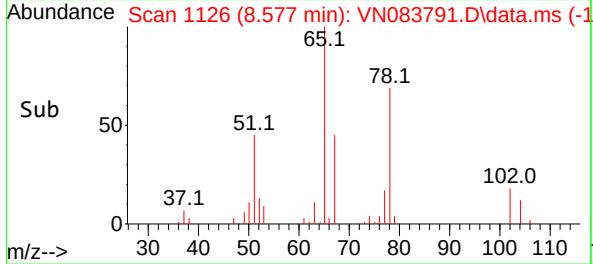
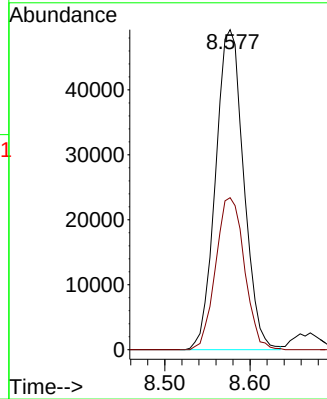
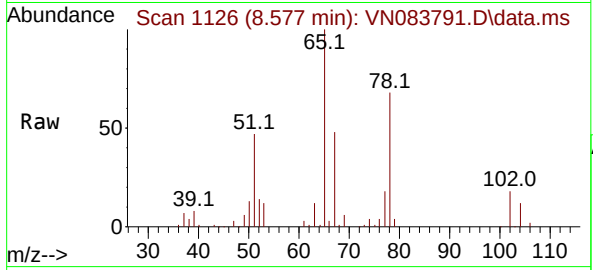
67 48.5 0.0 100.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

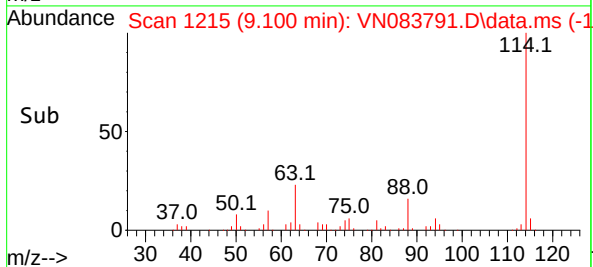
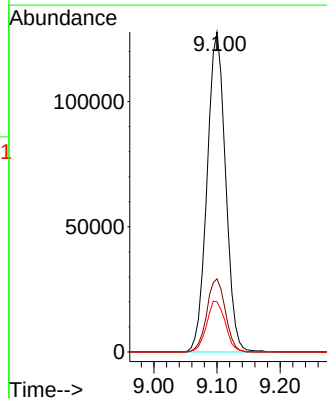
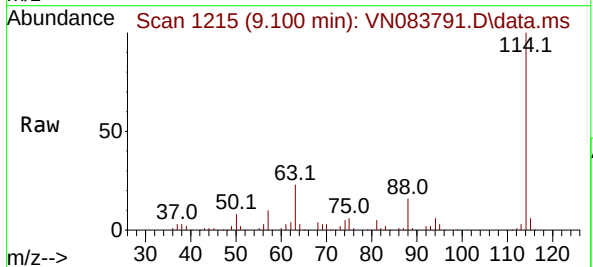
Tgt Ion:114 Resp: 259748

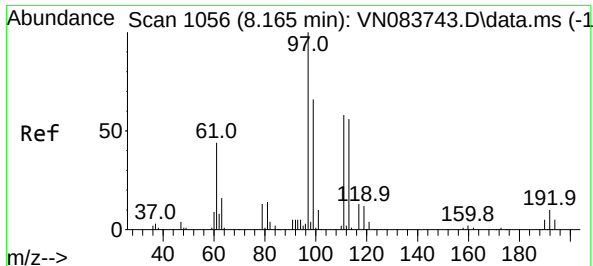
Ion Ratio Lower Upper

114 100

63 22.8 0.0 43.4

88 15.6 0.0 32.6





#35

Dibromofluoromethane

Concen: 48.184 ug/l

RT: 8.165 min Scan# 1090

Delta R.T. -0.000 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

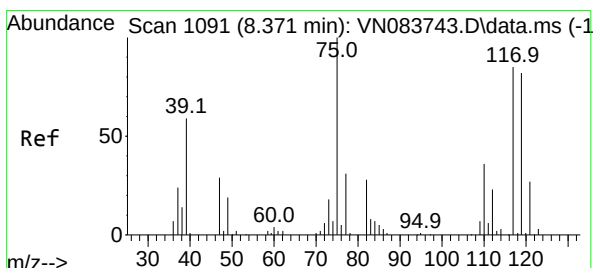
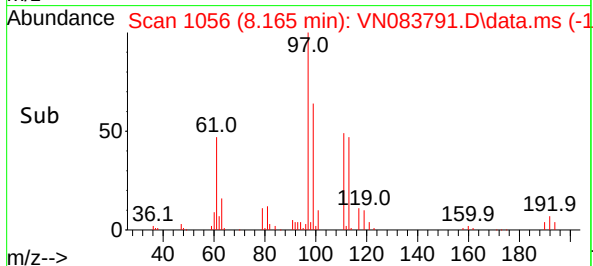
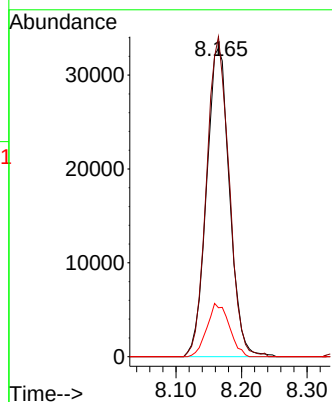
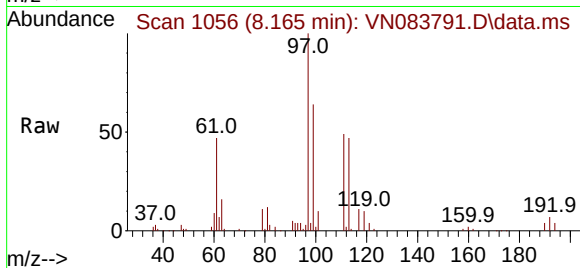
Tgt Ion:	113	Resp:	80124
Ion Ratio	Lower	Upper	
113	100		
111	101.3	82.6	124.0
192	16.8	14.3	21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#36

1,1-Dichloropropene

Concen: 51.229 ug/l

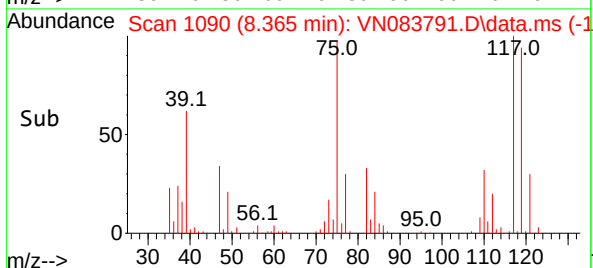
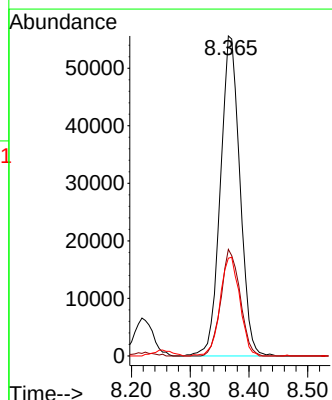
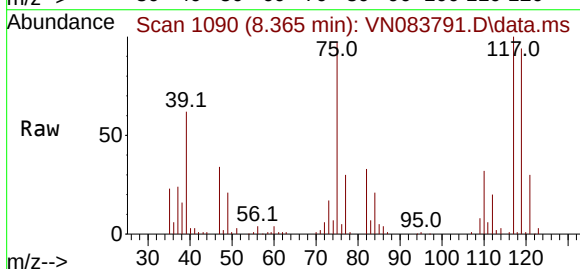
RT: 8.365 min Scan# 1090

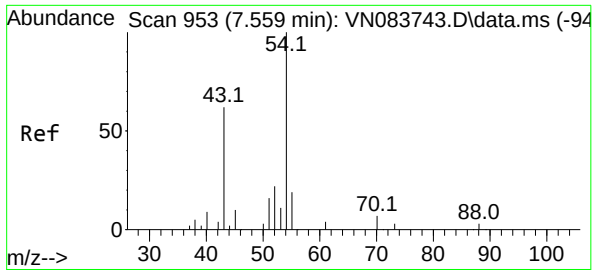
Delta R.T. -0.006 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

Tgt Ion:	75	Resp:	128219
Ion Ratio	Lower	Upper	
75	100		
110	32.9	16.7	50.1
77	31.2	25.2	37.8





#37

Ethyl Acetate

Concen: 58.242 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 13231

Ion Ratio Lower Upper

43 100

61 12.8 11.1 16.7

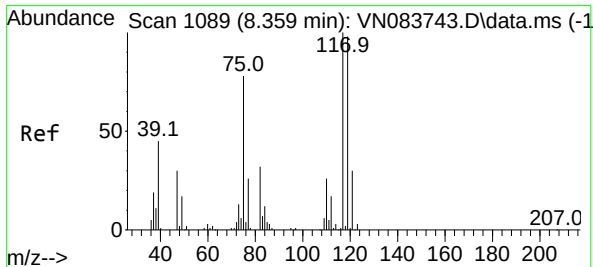
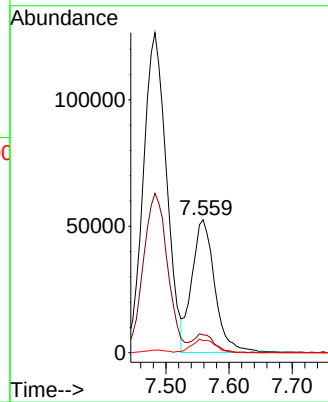
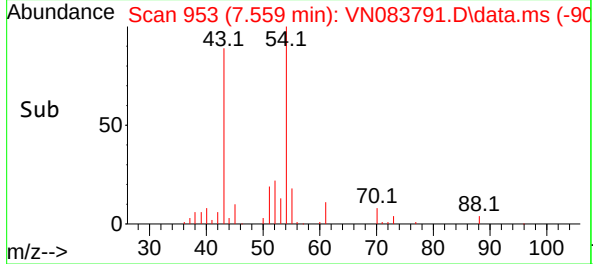
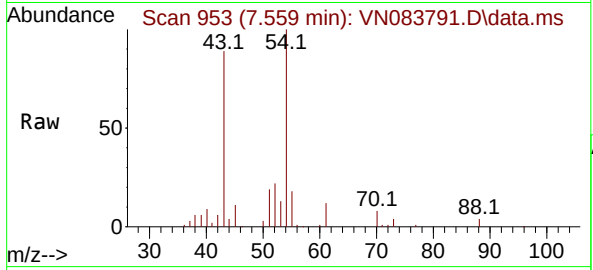
70 10.3 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#38

Carbon Tetrachloride

Concen: 52.977 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

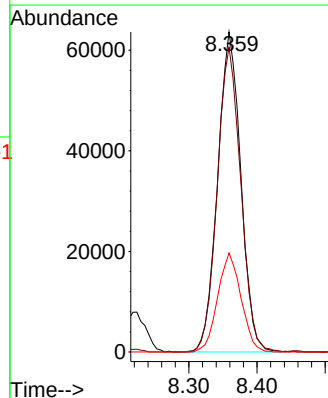
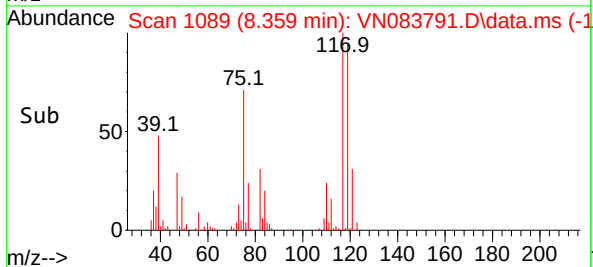
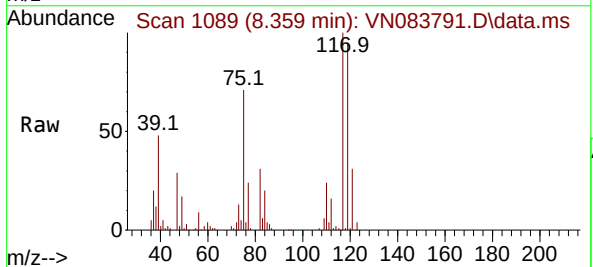
Tgt Ion:117 Resp: 150427

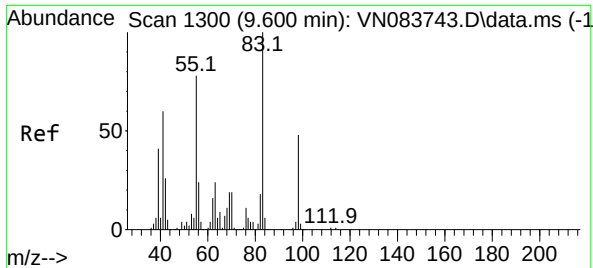
Ion Ratio Lower Upper

117 100

119 95.2 76.1 114.1

121 31.0 24.1 36.1





#39

Methylcyclohexane

Concen: 54.700 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 15583

Ion Ratio Lower Upper

83 100

55 76.6 62.2 93.4

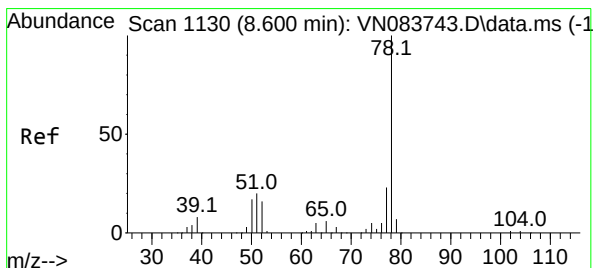
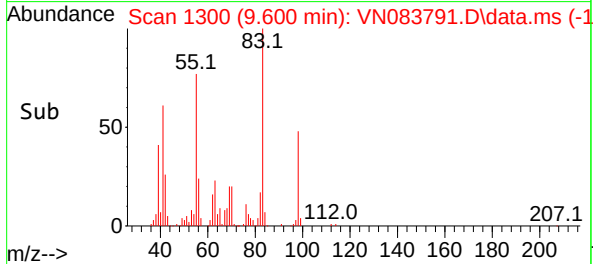
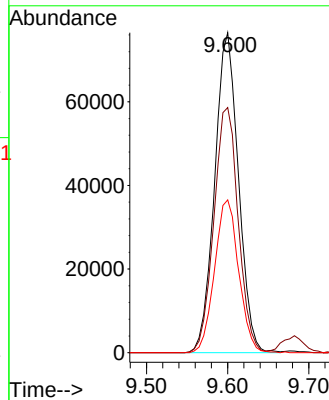
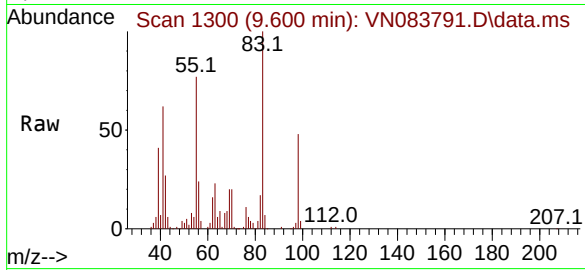
98 47.8 37.6 56.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#40

Benzene

Concen: 53.148 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN083791.D

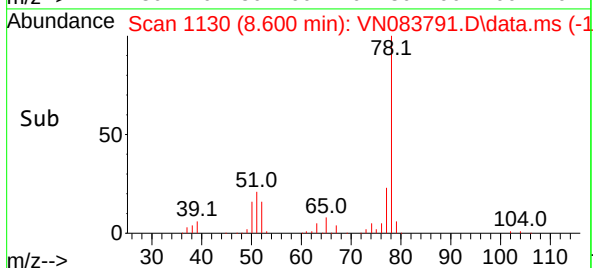
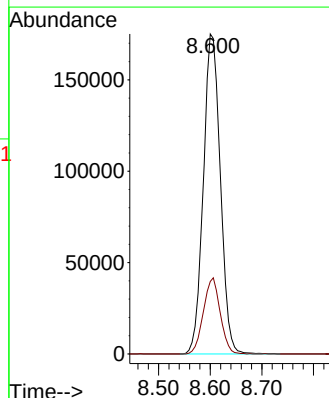
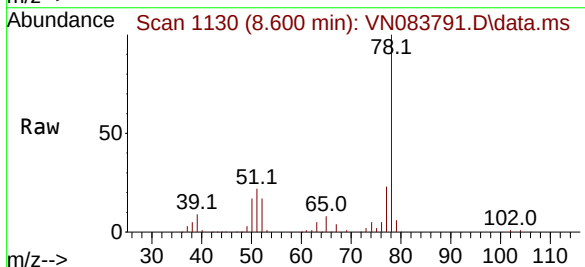
Acq: 11 Sep 2024 12:59

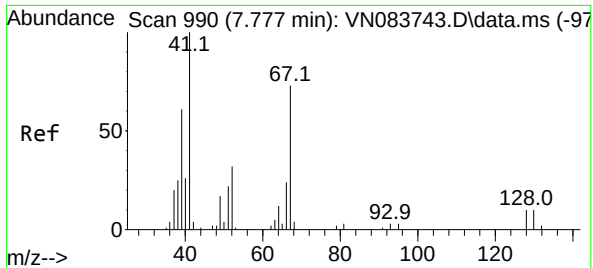
Tgt Ion: 78 Resp: 400377

Ion Ratio Lower Upper

78 100

77 22.6 19.0 28.6





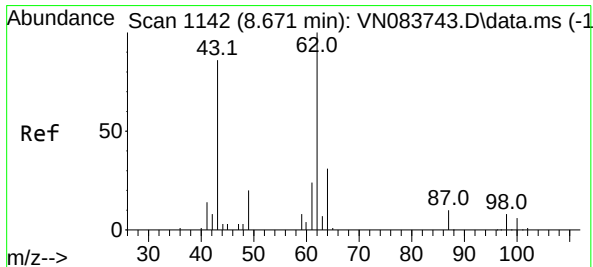
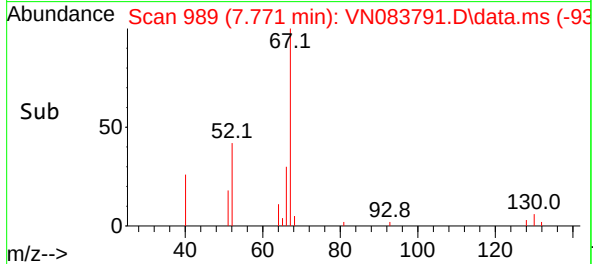
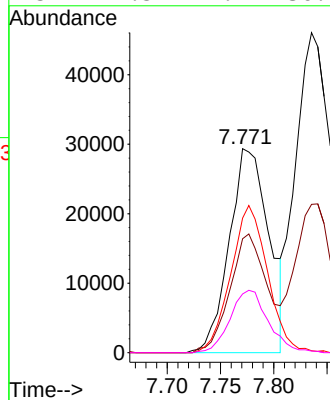
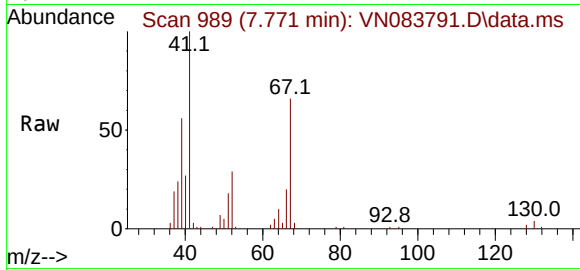
#41
Methacrylonitrile
Concen: 56.528 ug/l
RT: 7.771 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 75950
Ion Ratio Lower Upper
41 100
39 54.9 45.4 68.2
67 67.2 55.9 83.9
52 29.5 24.1 36.1

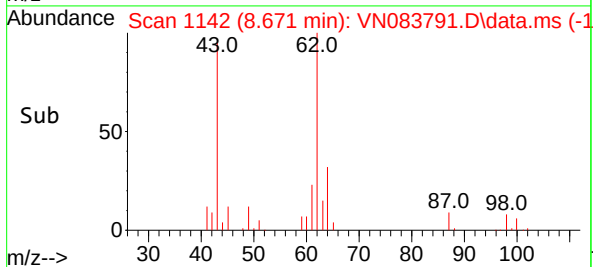
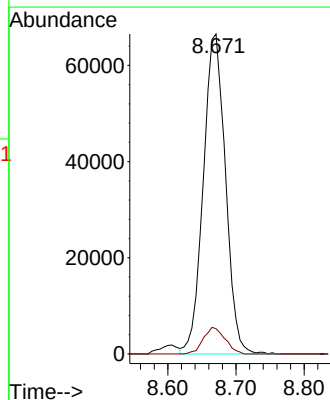
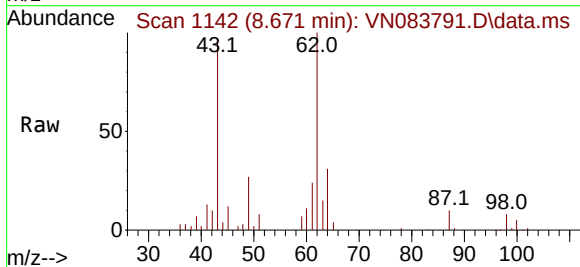
Manual Integrations
APPROVED

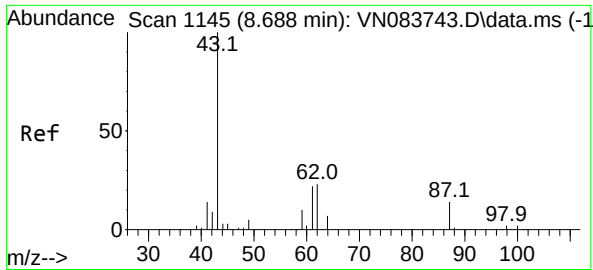
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#42
1,2-Dichloroethane
Concen: 53.581 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

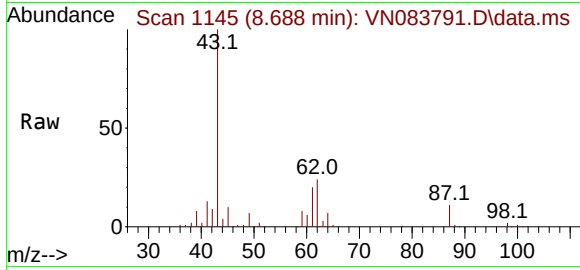
Tgt Ion: 62 Resp: 150827
Ion Ratio Lower Upper
62 100
98 8.1 0.0 16.6





#43
Isopropyl Acetate
Concen: 70.750 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

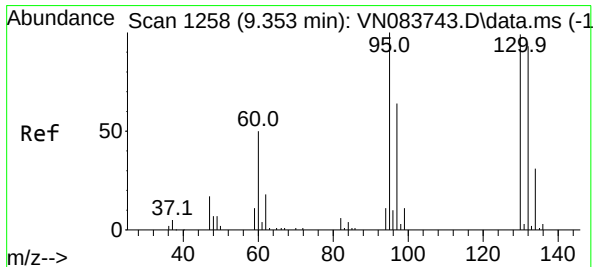
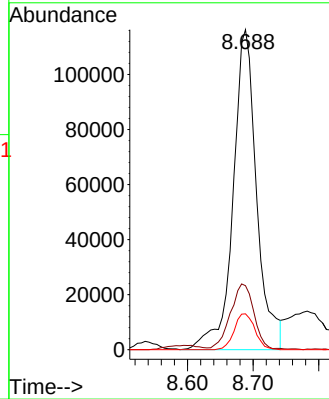
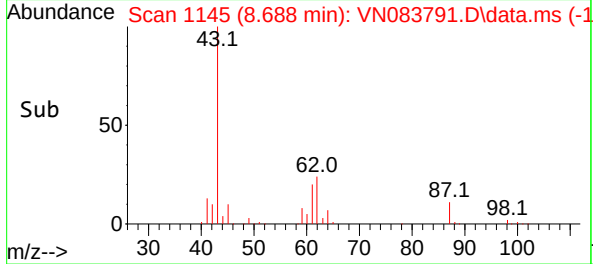
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 43 Resp: 291272
Ion Ratio Lower Upper
43 100
61 20.3 19.4 29.0
87 9.8 9.8 14.6

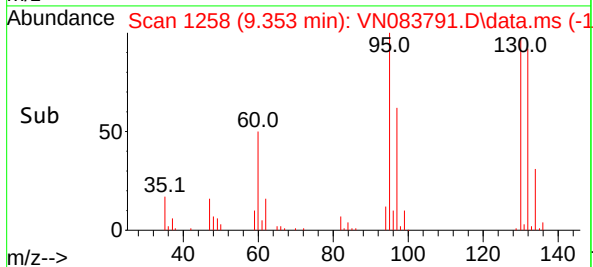
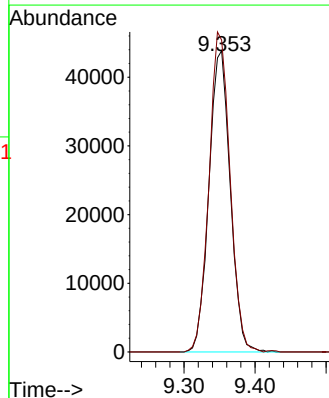
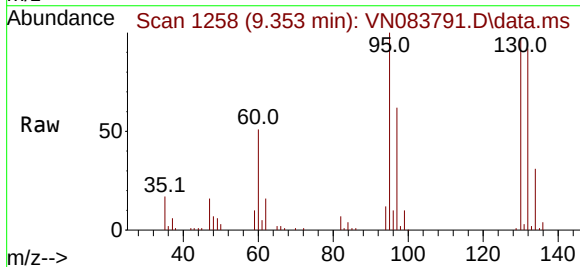
Manual Integrations
APPROVED

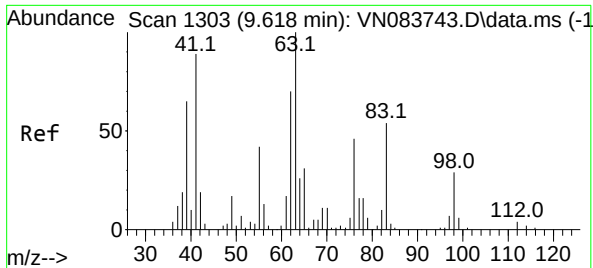
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#44
Trichloroethene
Concen: 52.393 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:130 Resp: 91400
Ion Ratio Lower Upper
130 100
95 103.5 0.0 200.4





#45

1,2-Dichloropropane

Concen: 54.190 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 9866

Ion Ratio Lower Upper

63 100

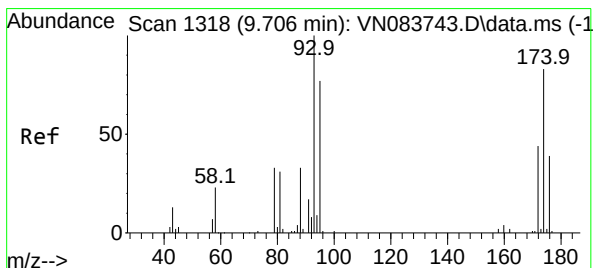
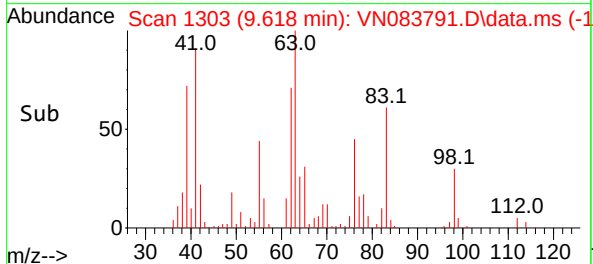
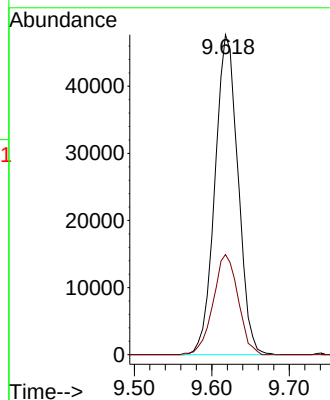
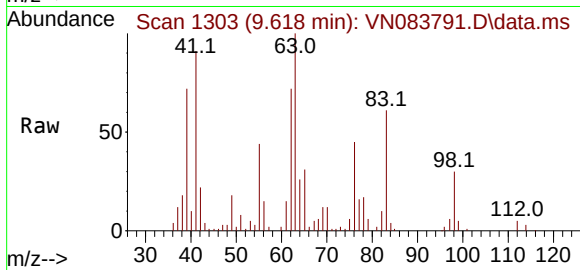
65 31.3 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#46

Dibromomethane

Concen: 53.782 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

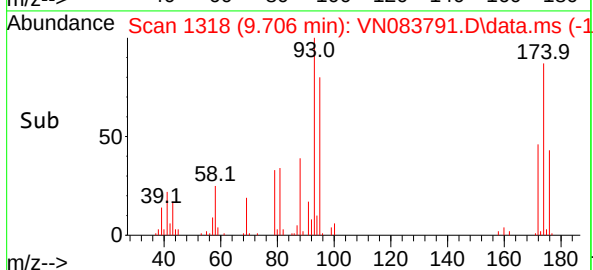
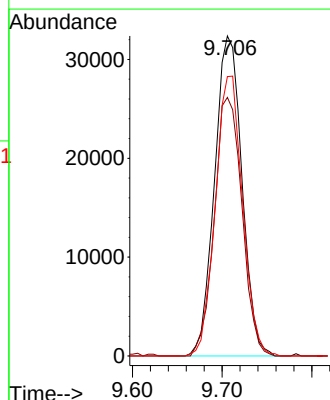
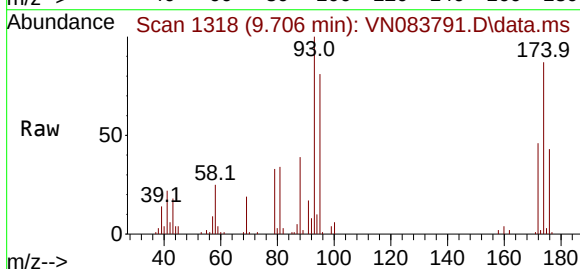
Tgt Ion: 93 Resp: 68589

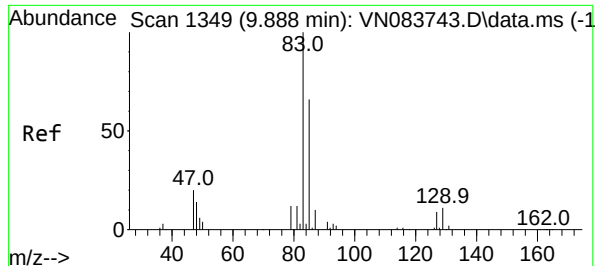
Ion Ratio Lower Upper

93 100

95 81.6 65.3 97.9

174 86.9 71.0 106.4





#47

Bromodichloromethane

Concen: 55.370 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.000 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

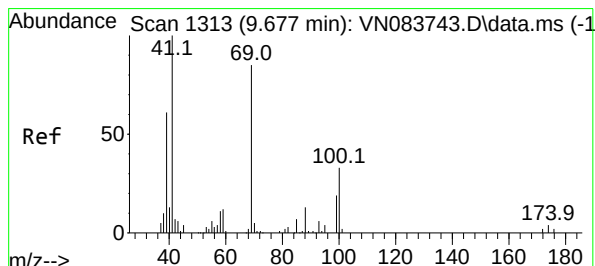
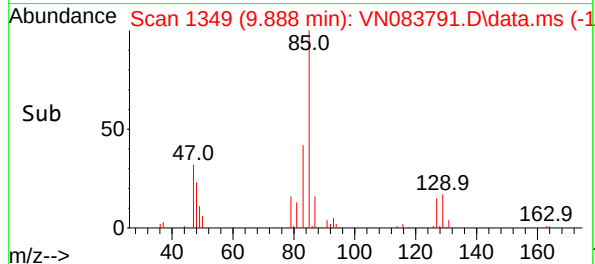
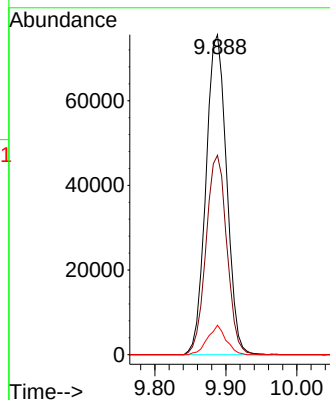
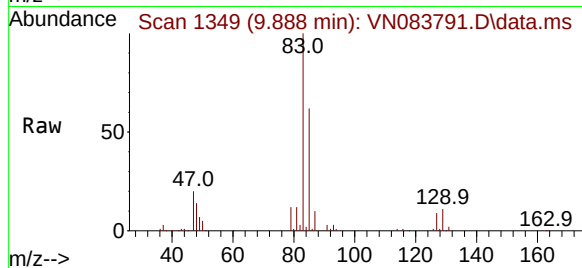
Tgt Ion:	83	Resp:	152824
Ion	Ratio	Lower	Upper
83	100		
85	62.3	51.8	77.8
127	9.2	6.6	9.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#48

Methyl methacrylate

Concen: 57.280 ug/l

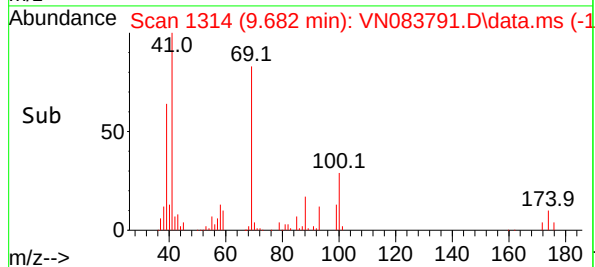
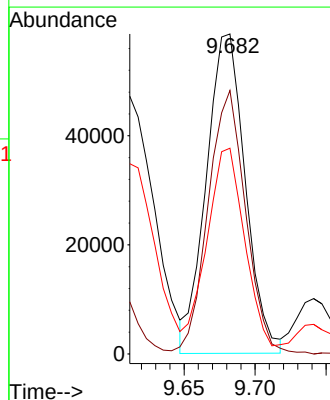
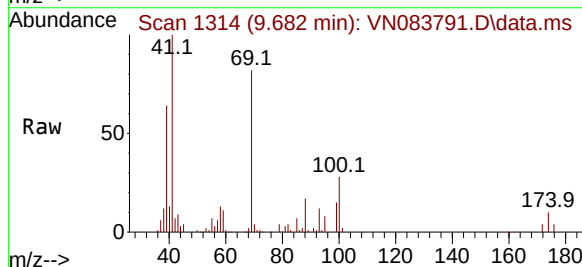
RT: 9.682 min Scan# 1314

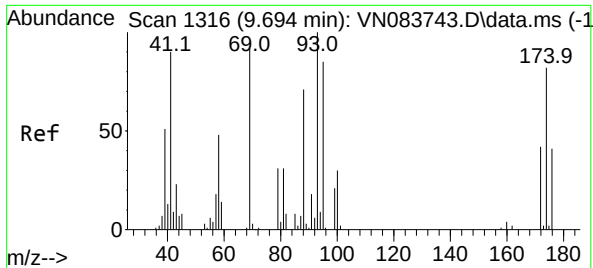
Delta R.T. 0.006 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

Tgt Ion:	41	Resp:	111880
Ion	Ratio	Lower	Upper
41	100		
69	79.6	64.3	96.5
39	64.1	48.9	73.3





#49

1,4-Dioxane

Concen: 1114.069 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 88 Resp: 3579

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

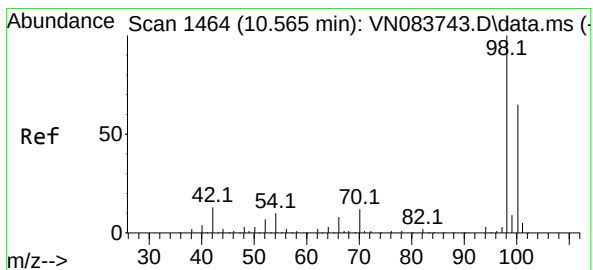
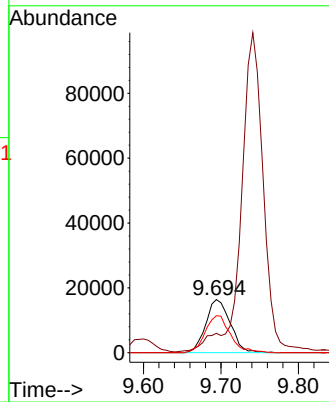
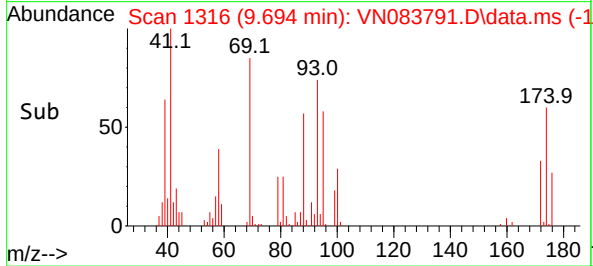
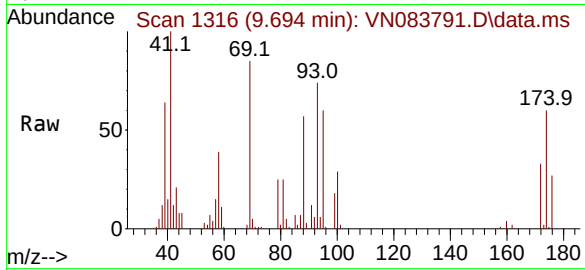
58 71.4 57.1 85.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#50

Toluene-d8

Concen: 51.066 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN083791.D

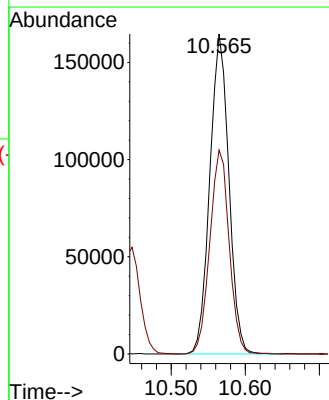
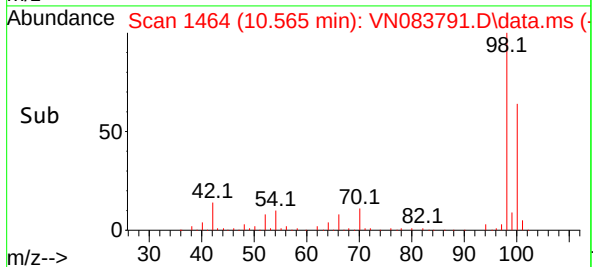
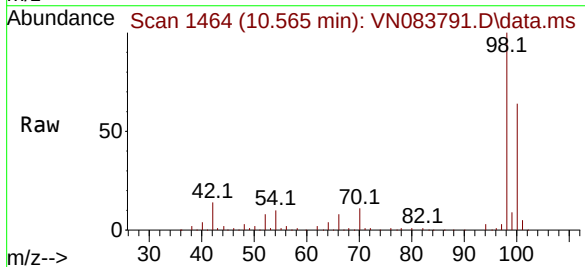
Acq: 11 Sep 2024 12:59

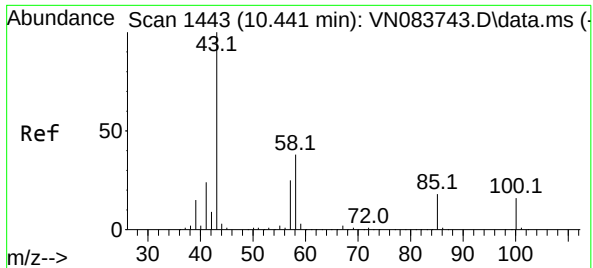
Tgt Ion: 98 Resp: 293562

Ion Ratio Lower Upper

98 100

100 64.7 52.0 78.0





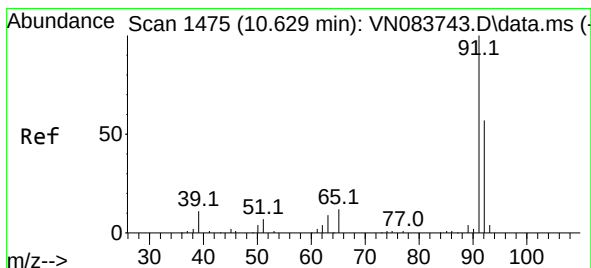
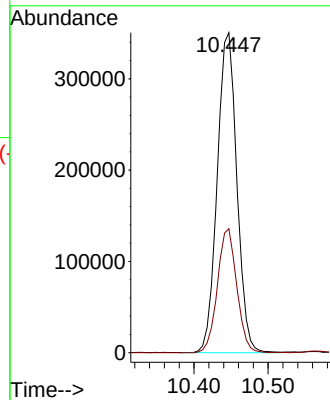
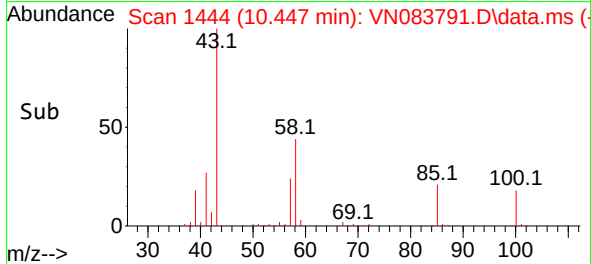
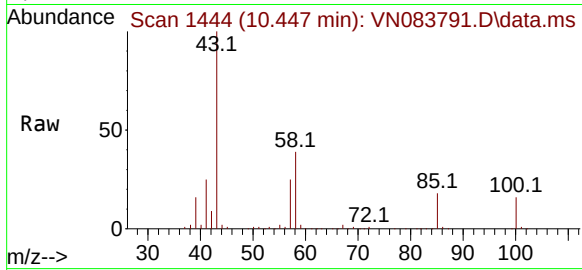
#51
4-Methyl-2-Pentanone
Concen: 287.840 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 64506
Ion Ratio Lower Upper
43 100
58 38.2 31.6 47.4

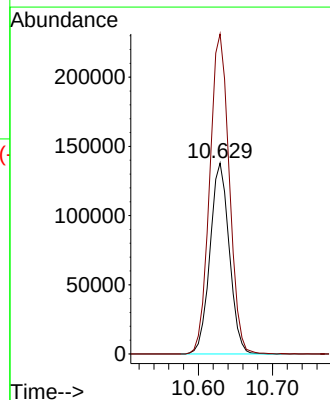
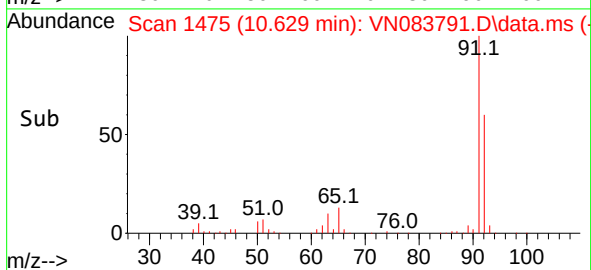
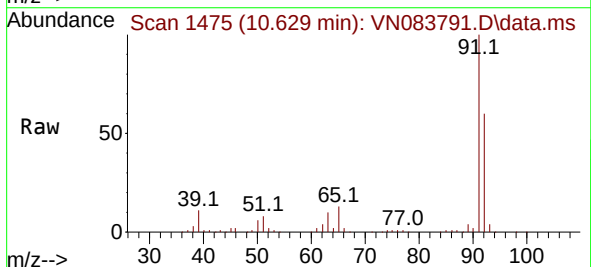
Manual Integrations
APPROVED

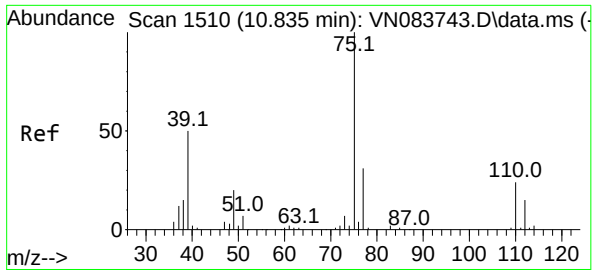
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#52
Toluene
Concen: 53.901 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

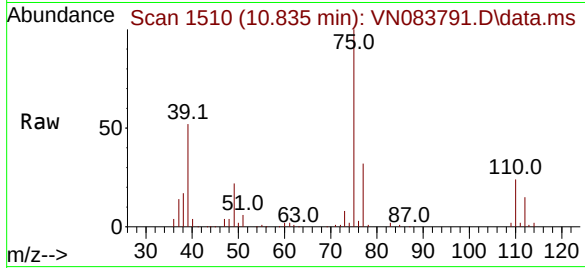
Tgt Ion: 92 Resp: 248372
Ion Ratio Lower Upper
92 100
91 170.7 134.7 202.1





#53
t-1,3-Dichloropropene
Concen: 54.843 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

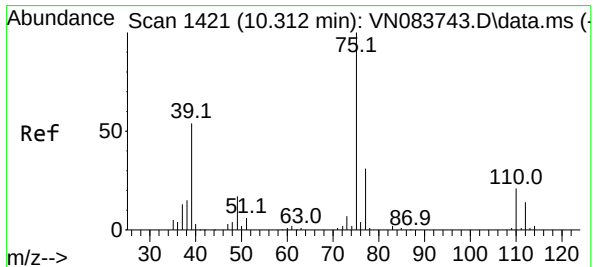
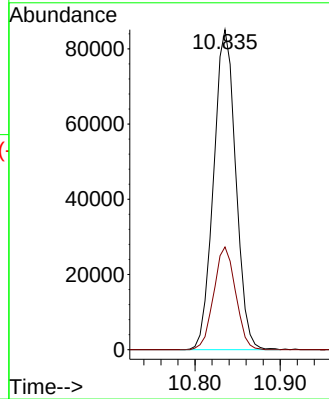
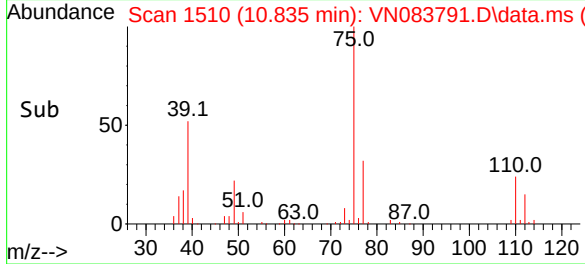
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 75 Resp: 153430
Ion Ratio Lower Upper
75 100
77 32.1 25.8 38.6

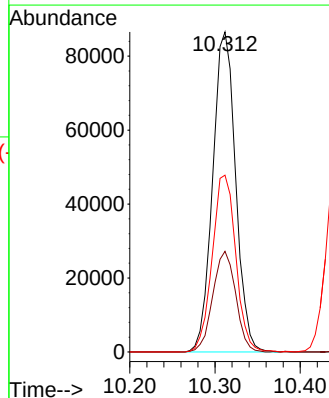
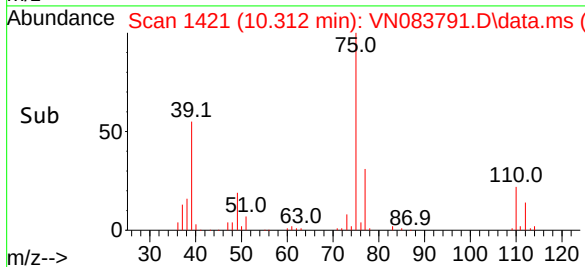
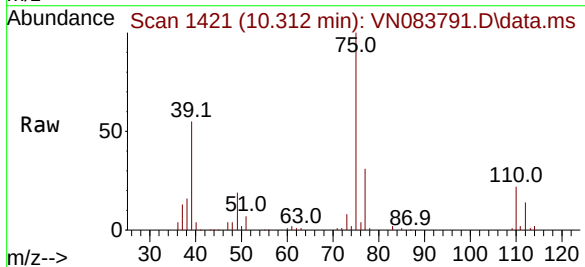
Manual Integrations
APPROVED

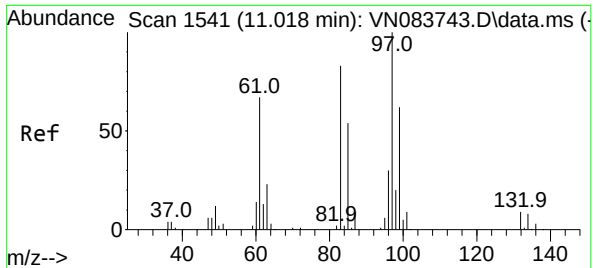
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#54
cis-1,3-Dichloropropene
Concen: 55.039 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

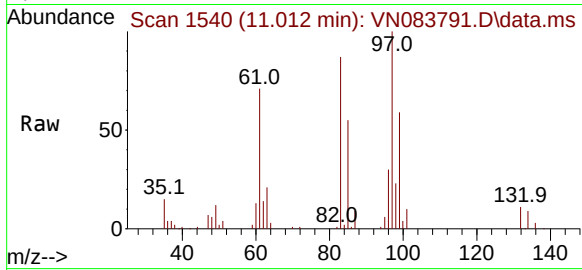
Tgt Ion: 75 Resp: 161745
Ion Ratio Lower Upper
75 100
77 31.5 25.0 37.6
39 55.2 42.6 64.0





#55
1,1,2-Trichloroethane
Concen: 53.088 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

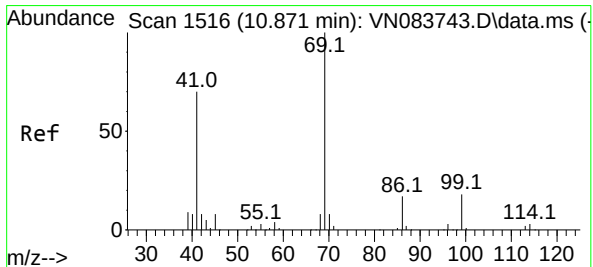
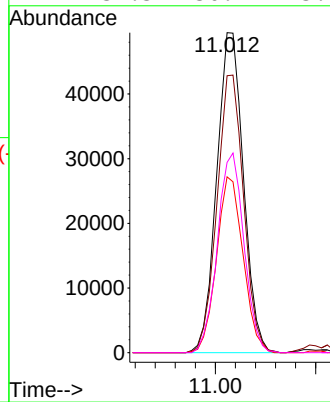
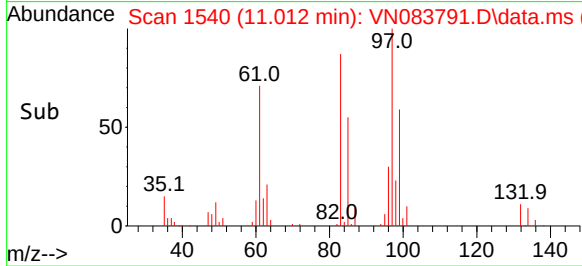
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



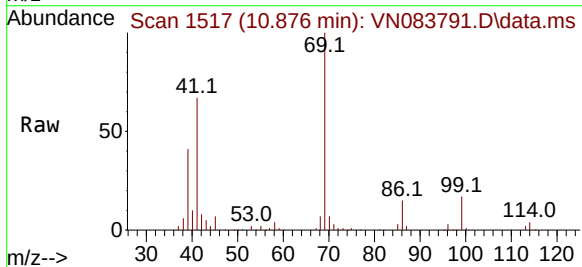
Tgt Ion: 97 Resp: 91325
Ion Ratio Lower Upper
97 100
83 86.6 67.5 101.3
85 55.0 44.2 66.2
99 59.5 50.1 75.1

Manual Integrations
APPROVED

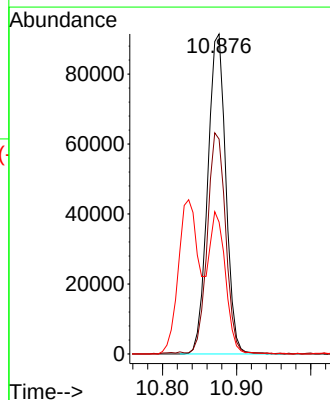
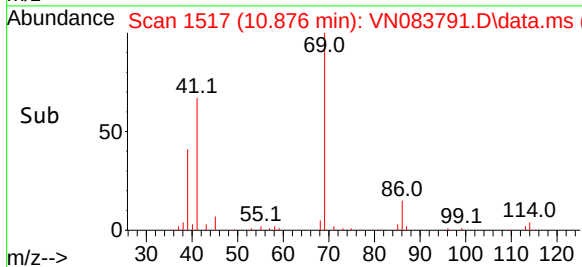
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

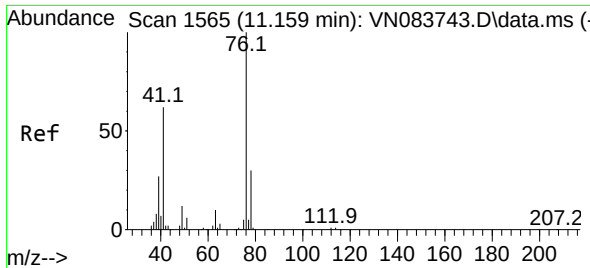


#56
Ethyl methacrylate
Concen: 58.555 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59



Tgt Ion: 69 Resp: 154978
Ion Ratio Lower Upper
69 100
41 70.8 53.9 80.9
39 43.1 32.6 48.8





#57

1,3-Dichloropropane

Concen: 54.326 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. 0.006 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 160620

Ion Ratio Lower Upper

76 100

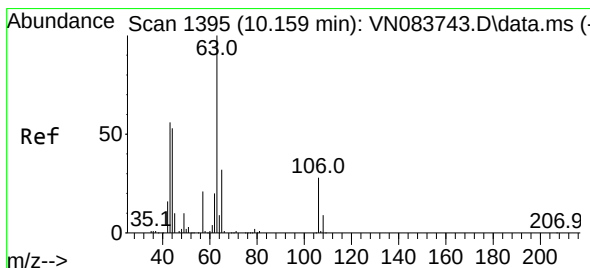
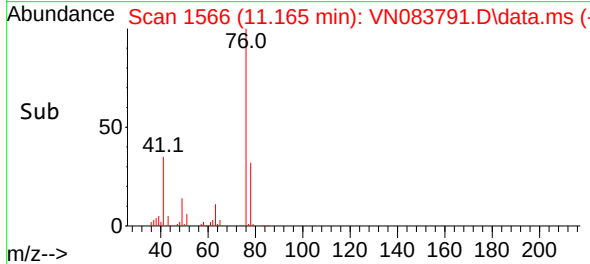
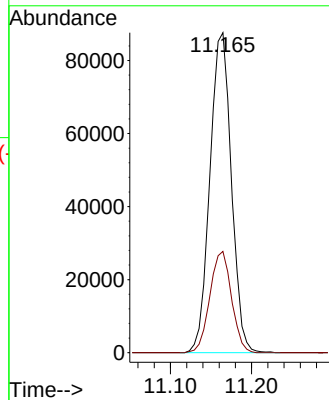
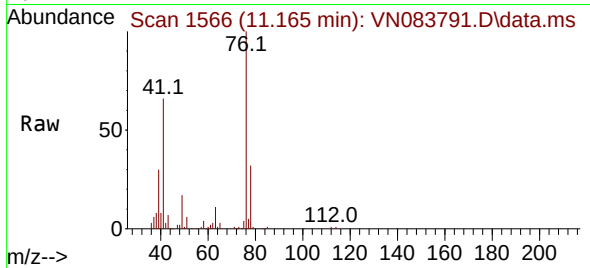
78 32.0 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#58

2-Chloroethyl Vinyl ether

Concen: 329.440 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN083791.D

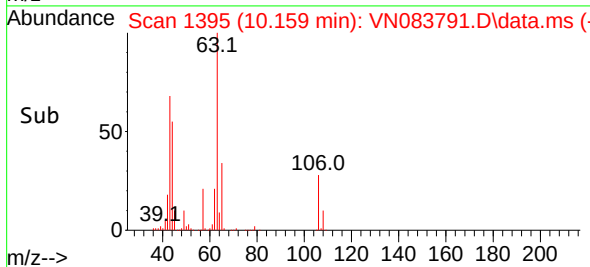
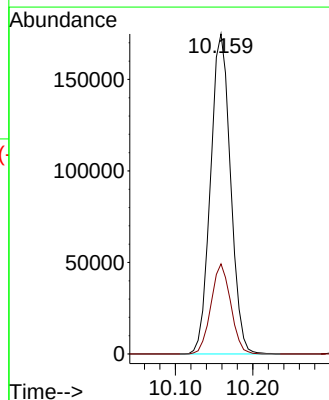
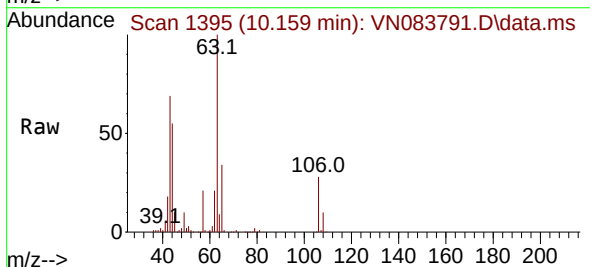
Acq: 11 Sep 2024 12:59

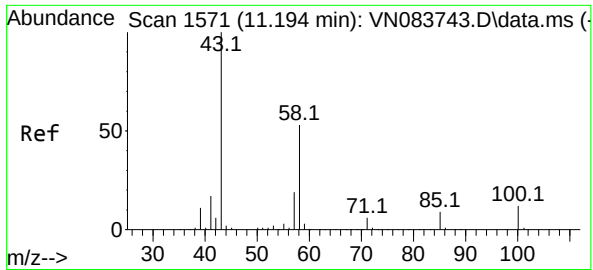
Tgt Ion: 63 Resp: 314176

Ion Ratio Lower Upper

63 100

106 27.7 23.3 34.9





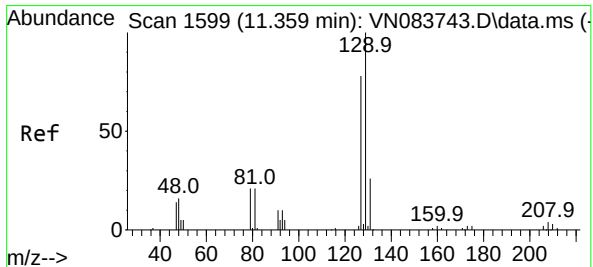
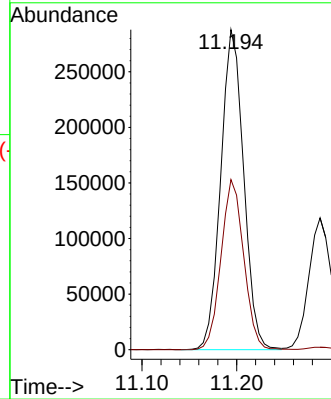
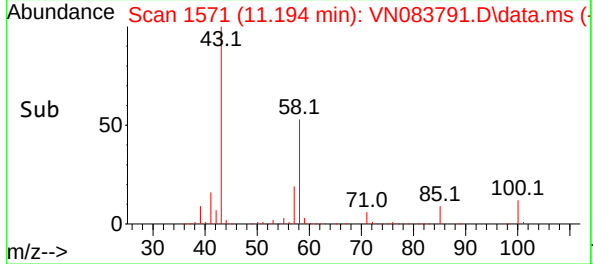
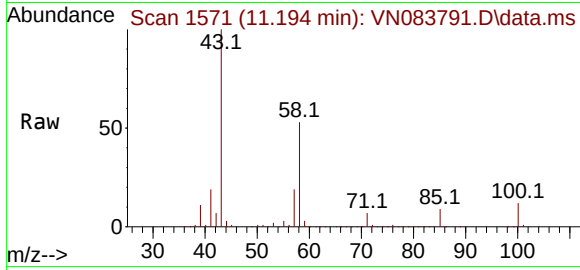
#59
2-Hexanone
Concen: 292.470 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 484844
Ion Ratio Lower Upper
43 100
58 52.5 27.2 81.5

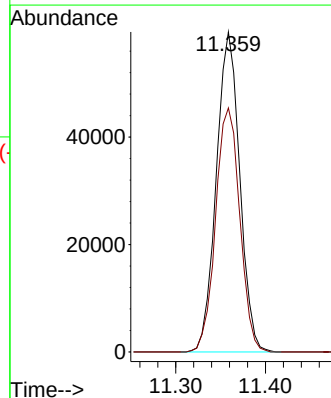
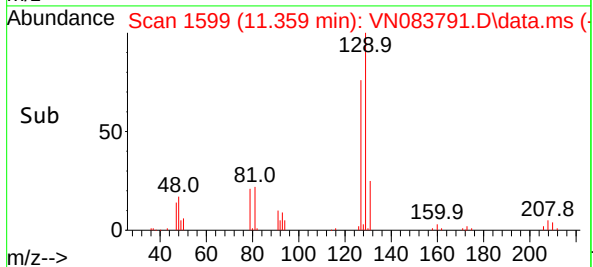
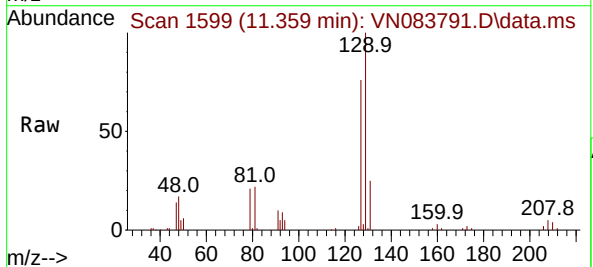
Manual Integrations
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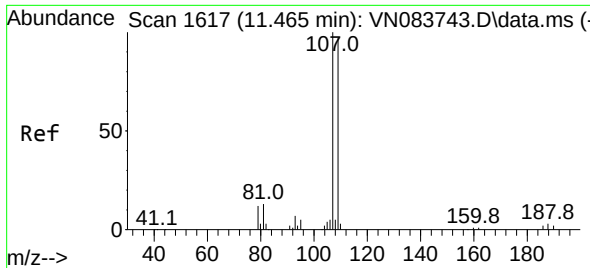
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#60
Dibromochloromethane
Concen: 56.063 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:129 Resp: 107933
Ion Ratio Lower Upper
129 100
127 78.7 39.0 116.9





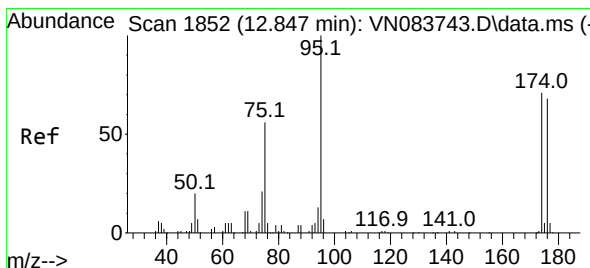
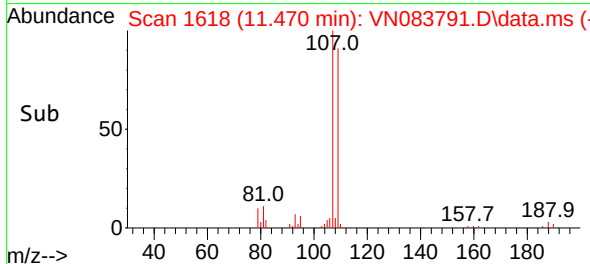
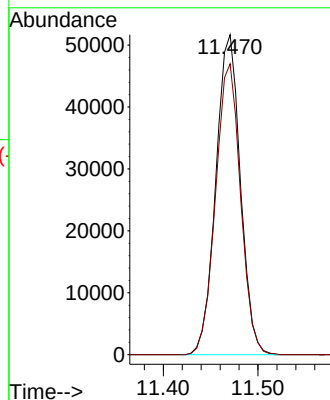
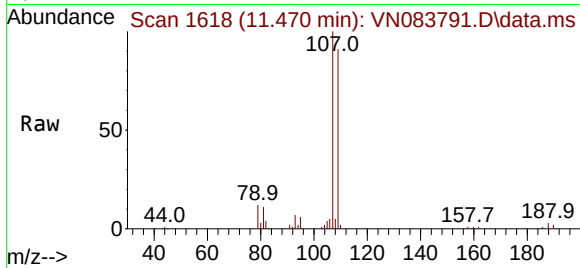
#61
1,2-Dibromoethane
Concen: 54.204 ug/l
RT: 11.470 min Scan# 1618
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 92995
Ion Ratio Lower Upper
107 100
109 92.6 75.6 113.4

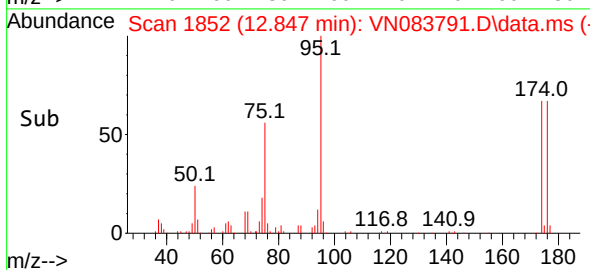
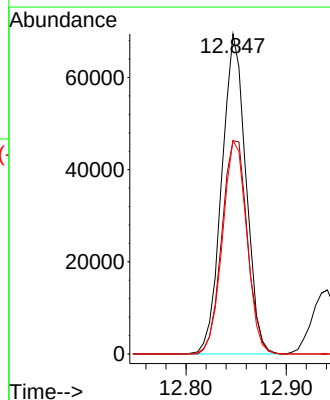
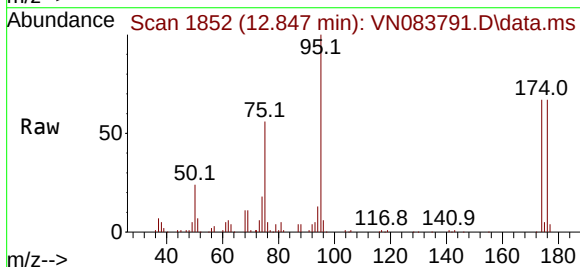
Manual Integrations
APPROVED

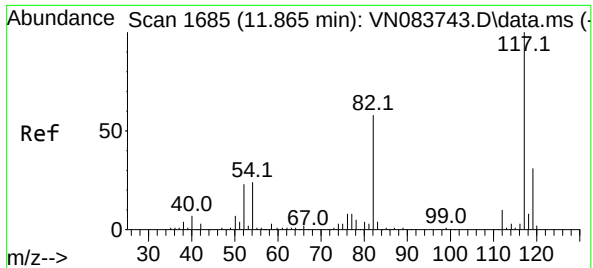
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#62
4-Bromofluorobenzene
Concen: 48.909 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 95 Resp: 116001
Ion Ratio Lower Upper
95 100
174 70.6 0.0 139.8
176 67.3 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:117 Resp: 22878

Ion Ratio Lower Upper

117 100

82 60.8 47.4 71.0

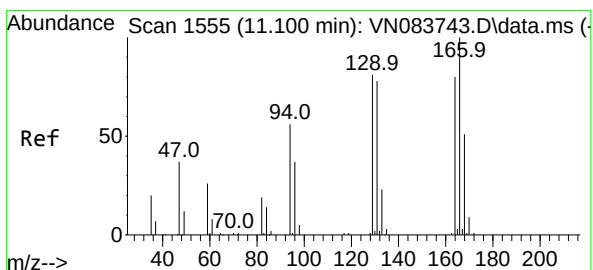
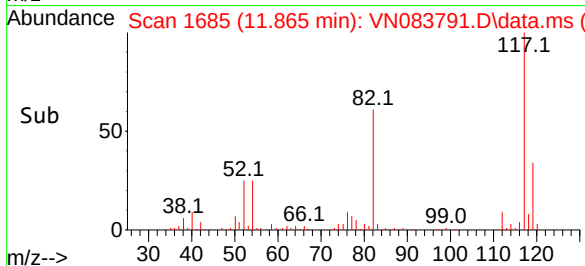
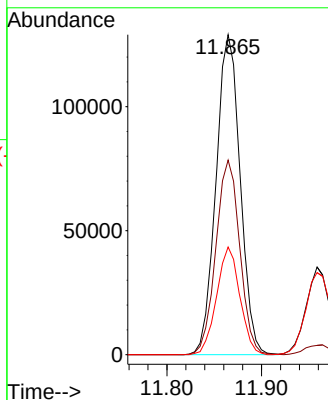
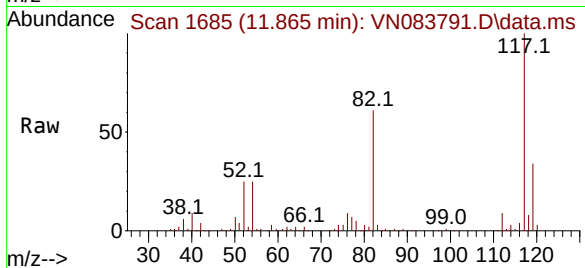
119 33.7 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#64

Tetrachloroethene

Concen: 50.762 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

Tgt Ion:164 Resp: 77234

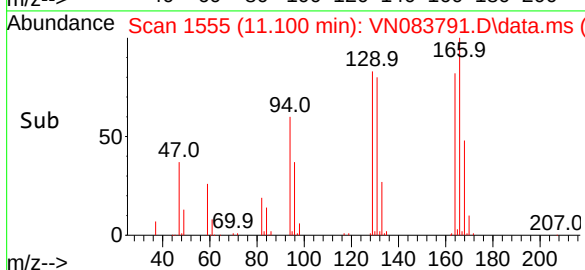
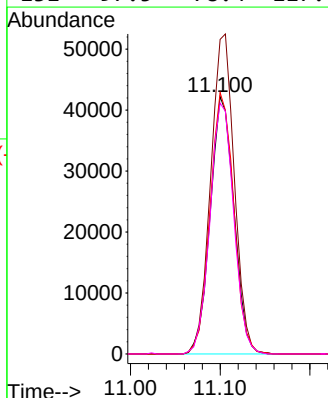
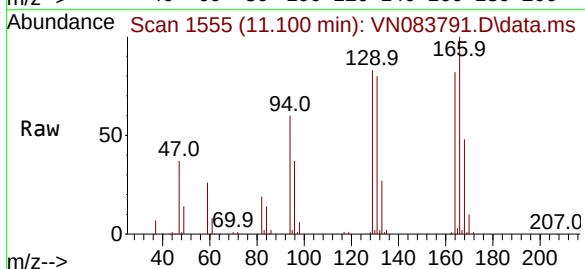
Ion Ratio Lower Upper

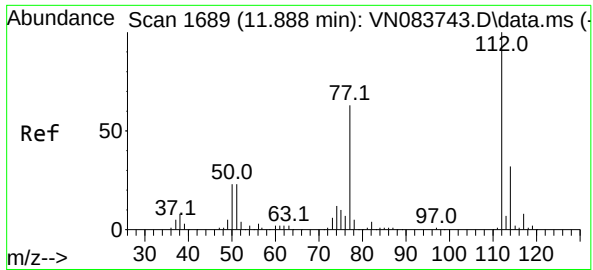
164 100

166 122.3 103.7 155.5

129 101.6 79.9 119.9

131 97.5 78.4 117.6





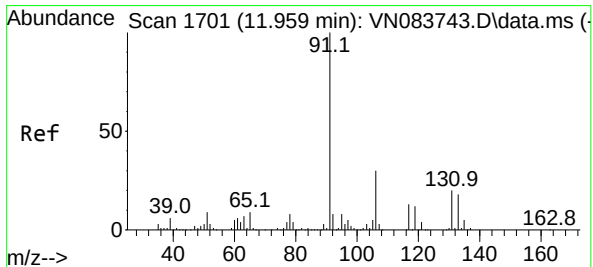
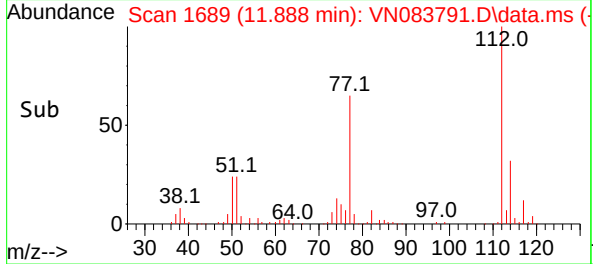
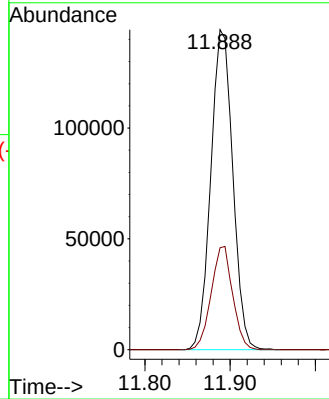
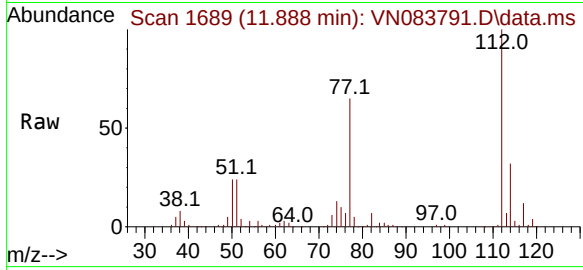
#65
Chlorobenzene
Concen: 50.891 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 258778
Ion Ratio Lower Upper
112 100
114 31.8 25.7 38.5

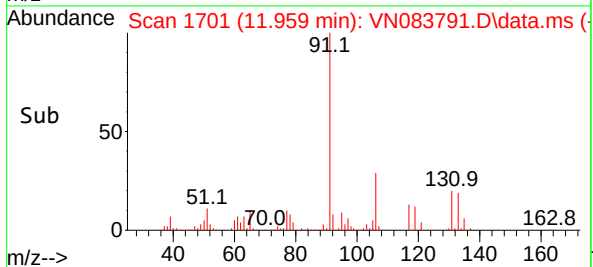
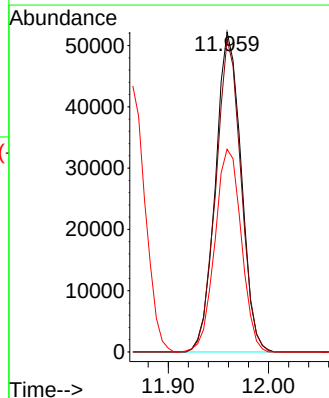
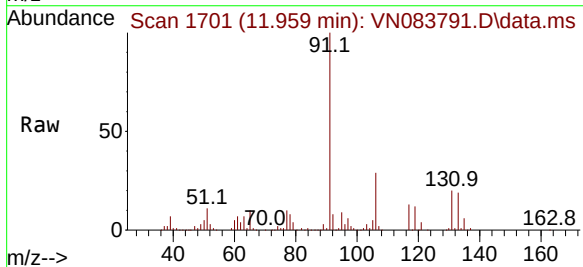
Manual Integrations
APPROVED

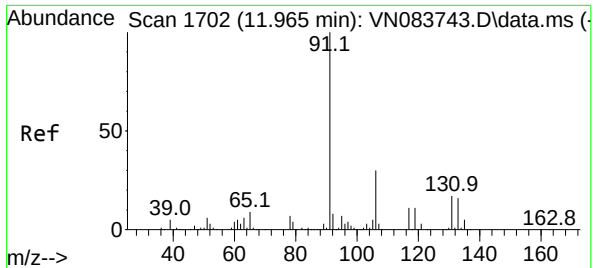
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 52.601 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

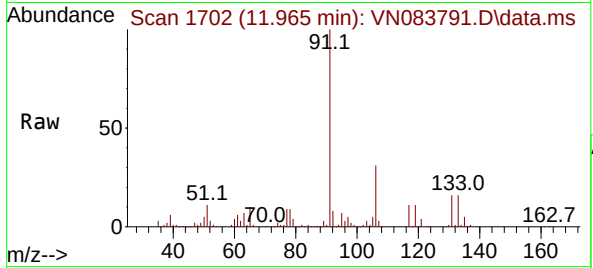
Tgt Ion:131 Resp: 92724
Ion Ratio Lower Upper
131 100
133 95.9 47.5 142.6
119 65.4 31.6 94.8





#67
Ethyl Benzene
Concen: 53.856 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

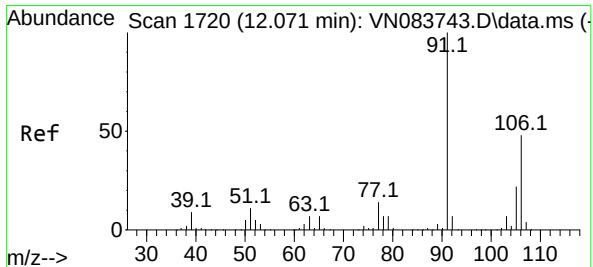
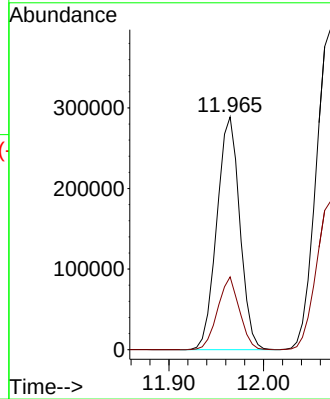
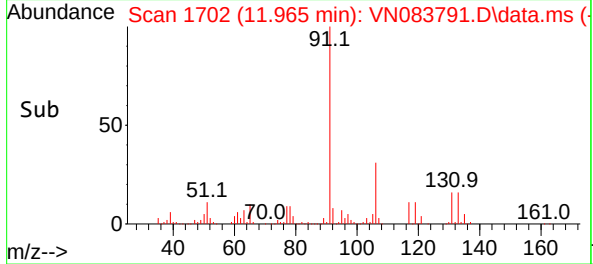
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 91 Resp: 48648
Ion Ratio Lower Upper
91 100
106 31.2 24.3 36.5

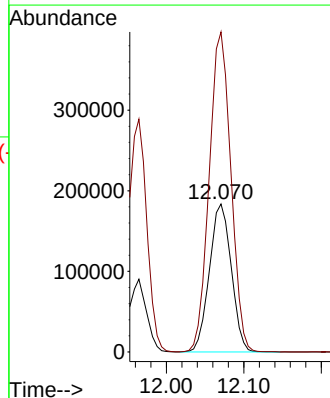
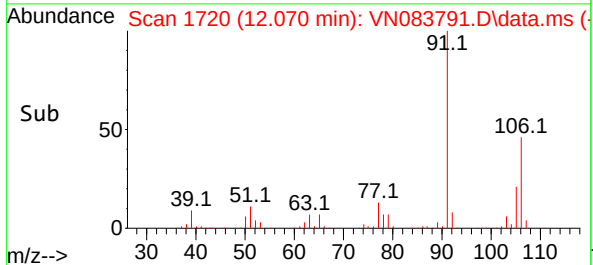
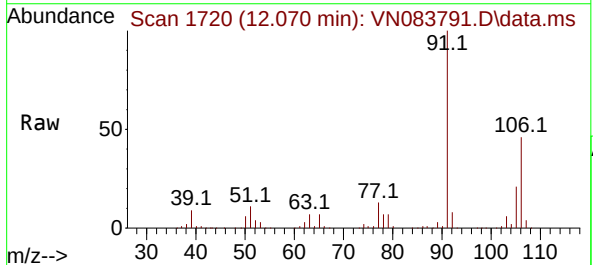
Manual Integrations
APPROVED

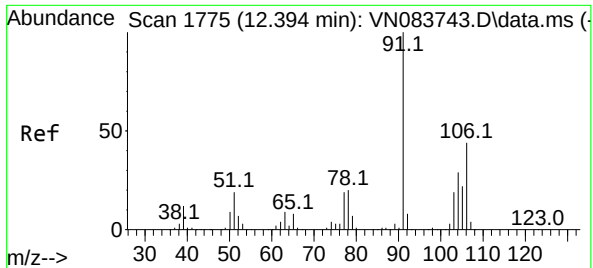
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#68
m/p-Xylenes
Concen: 107.352 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:106 Resp: 360018
Ion Ratio Lower Upper
106 100
91 214.8 169.2 253.8





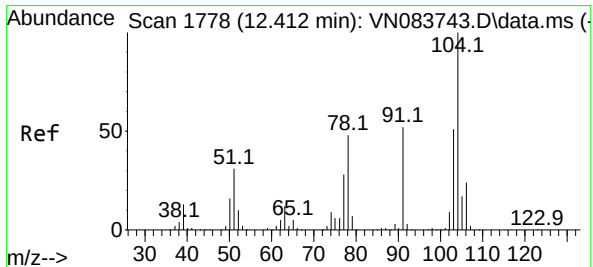
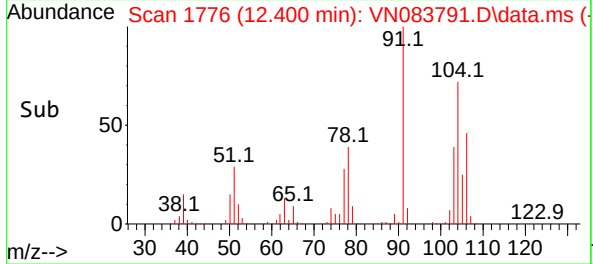
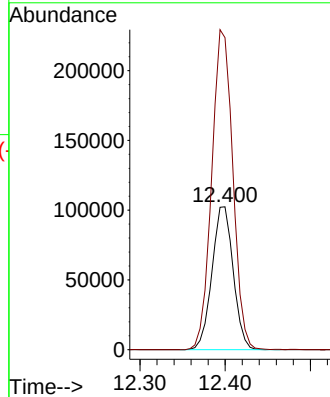
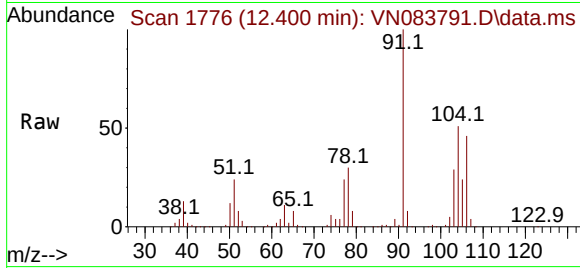
#69
o-Xylene
Concen: 54.632 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 17736
Ion Ratio Lower Upper
106 100
91 222.8 112.9 338.6

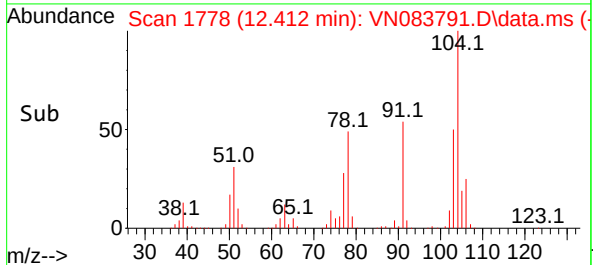
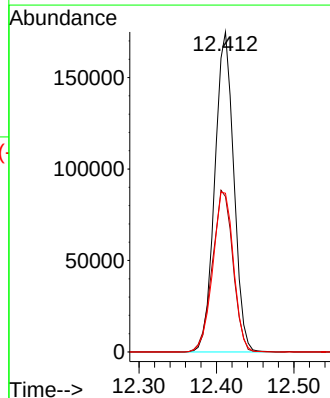
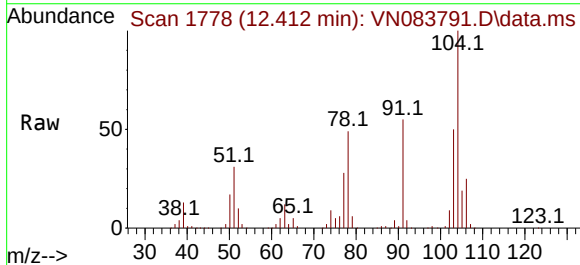
Manual Integrations
APPROVED

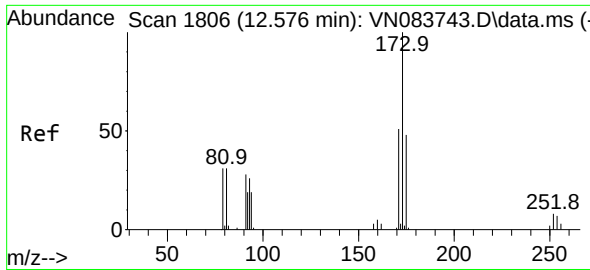
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#70
Styrene
Concen: 55.807 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

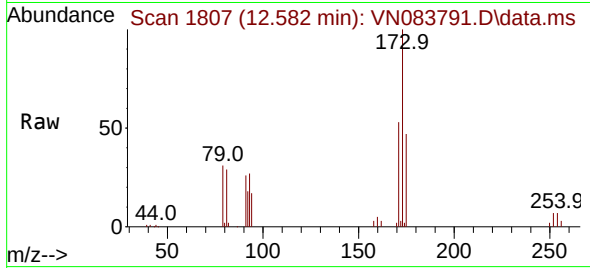
Tgt Ion:104 Resp: 297348
Ion Ratio Lower Upper
104 100
78 54.9 43.3 64.9
103 54.6 43.4 65.2





#71
Bromoform
Concen: 58.043 ug/l
RT: 12.582 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

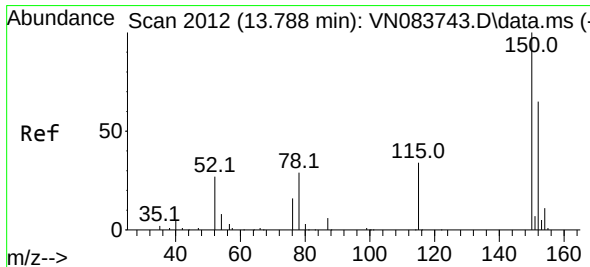
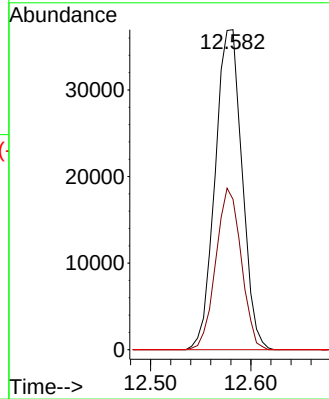
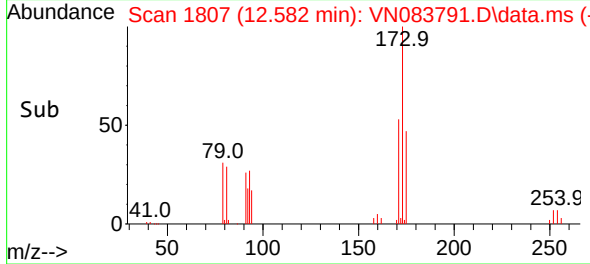
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



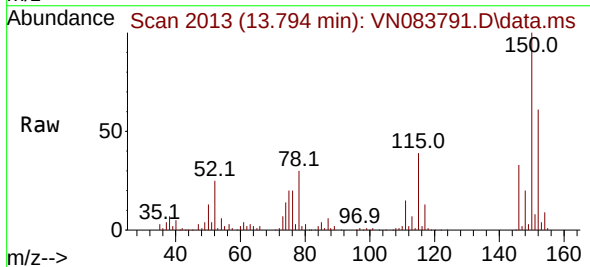
Tgt Ion:173 Resp: 68948
Ion Ratio Lower Upper
173 100
175 47.5 24.1 72.2
254 0.0 0.0 0.0

Manual Integrations
APPROVED

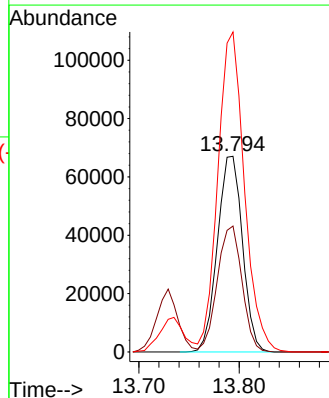
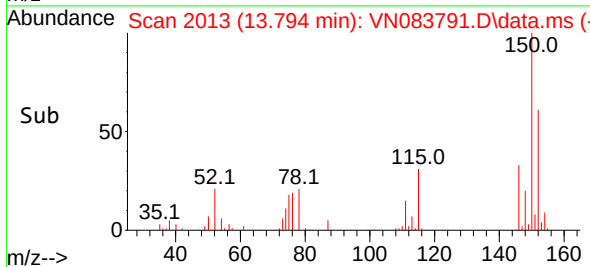
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

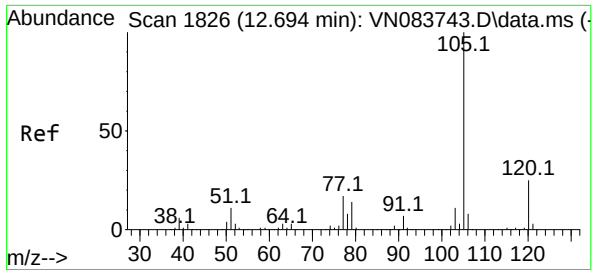


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59



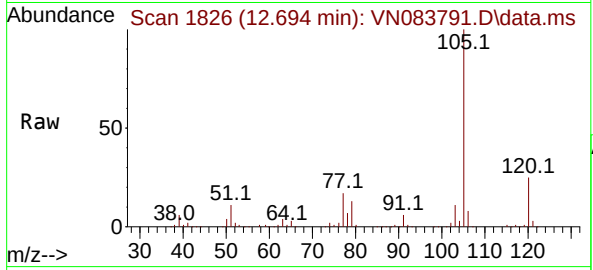
Tgt Ion:152 Resp: 116418
Ion Ratio Lower Upper
152 100
115 63.4 32.2 96.6
150 172.9 0.0 348.6





#73
Isopropylbenzene
Concen: 51.446 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

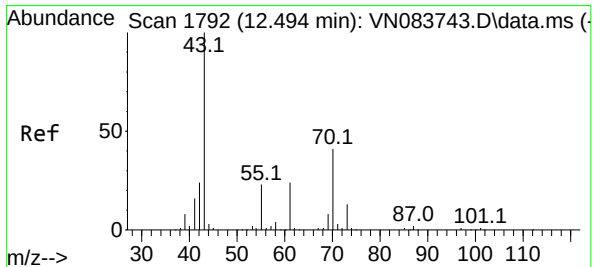
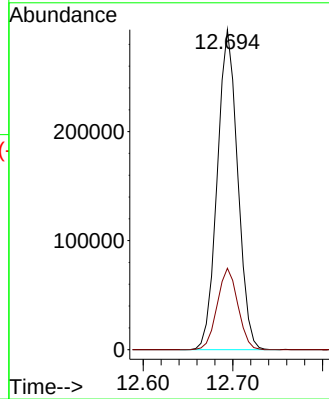
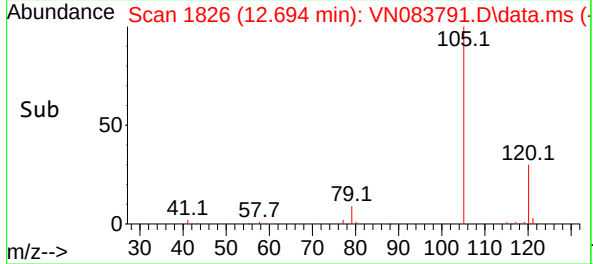
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:105 Resp: 463364
Ion Ratio Lower Upper
105 100
120 25.7 12.6 37.8

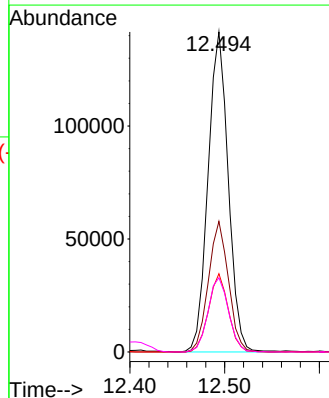
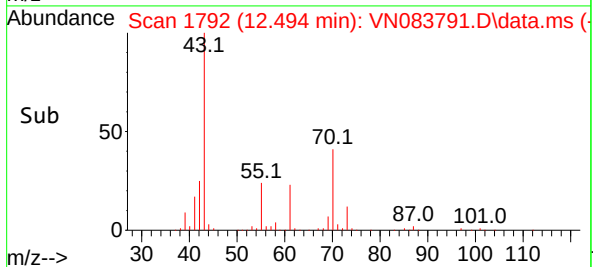
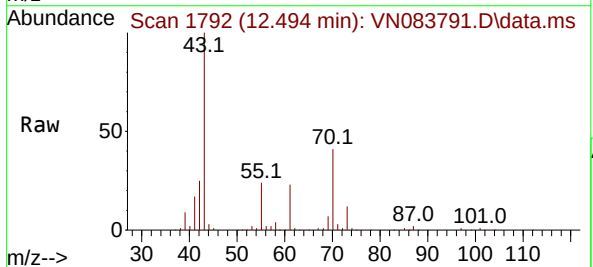
Manual Integrations
APPROVED

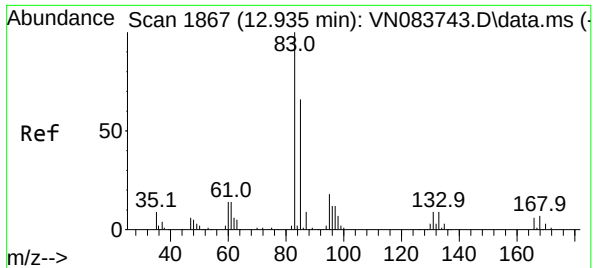
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#74
N-ethyl acetate
Concen: 54.568 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

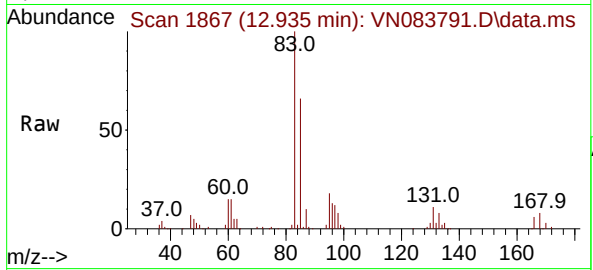
Tgt Ion: 43 Resp: 209696
Ion Ratio Lower Upper
43 100
70 40.6 34.5 51.7
55 23.9 18.6 28.0
61 23.6 19.2 28.8





#75
1,1,2,2-Tetrachloroethane
Concen: 49.340 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

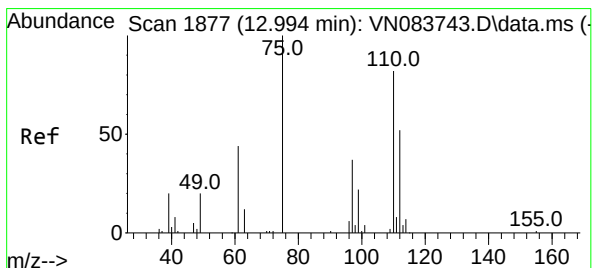
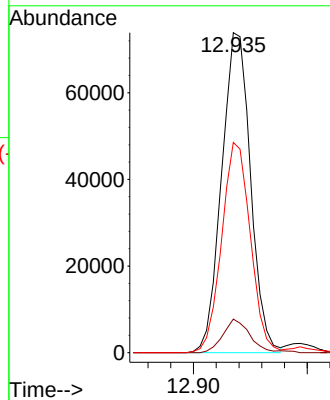
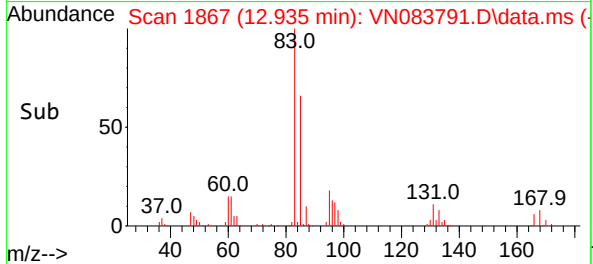
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 83 Resp: 13057
Ion Ratio Lower Upper
83 100
131 9.9 5.2 15.6
85 65.1 31.9 95.9

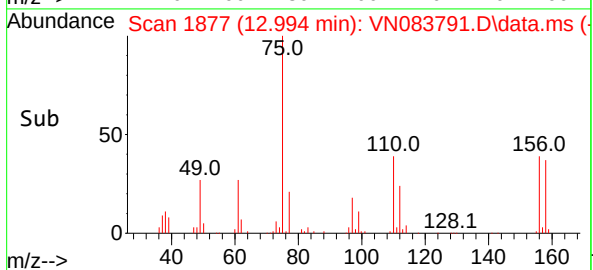
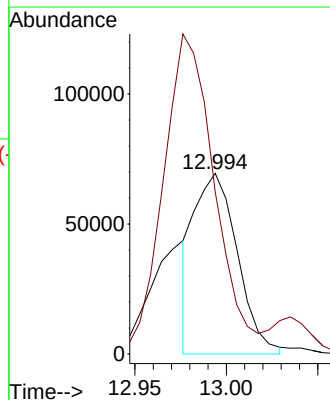
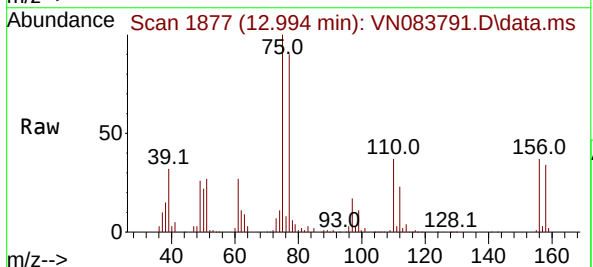
Manual Integrations
APPROVED

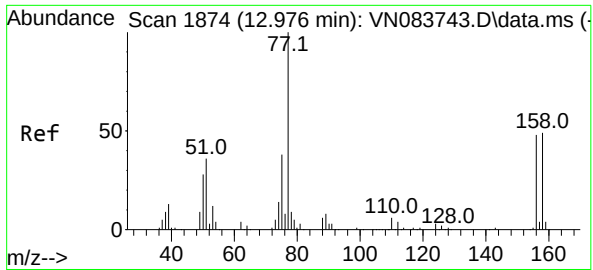
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#76
1,2,3-Trichloropropane
Concen: 48.510 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

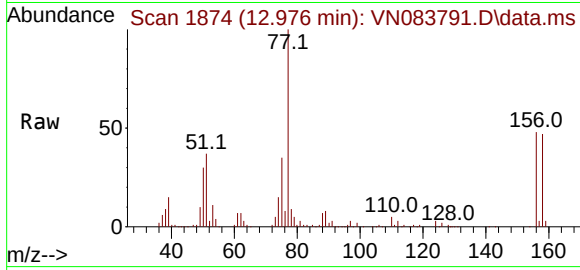
Tgt Ion: 75 Resp: 113955
Ion Ratio Lower Upper
75 100
77 210.1 95.2 285.6





#77
Bromobenzene
Concen: 48.069 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

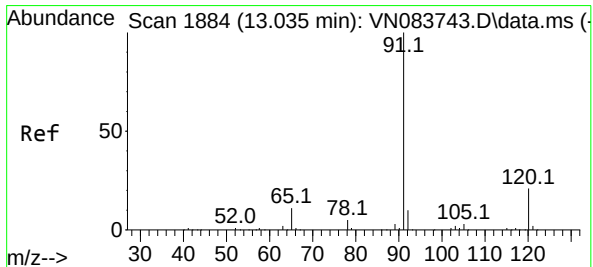
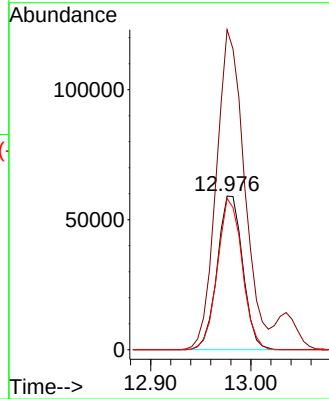
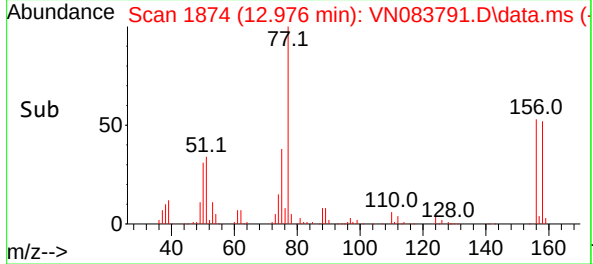
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:156 Resp: 104210
Ion Ratio Lower Upper
156 100
77 229.8 114.3 343.1
158 95.9 48.9 146.7

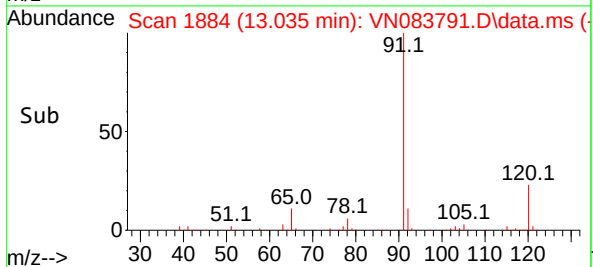
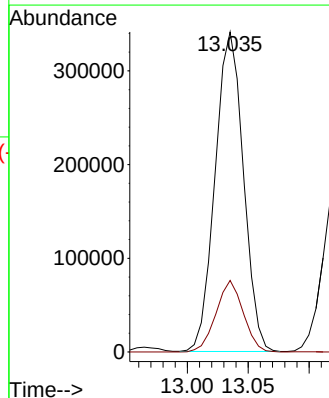
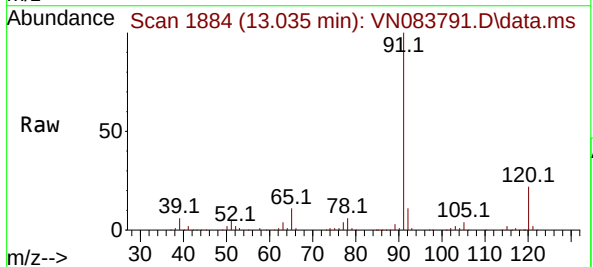
Manual Integrations
APPROVED

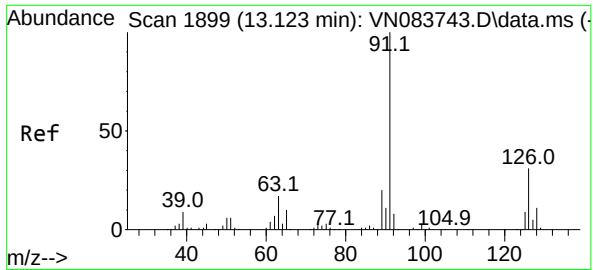
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#78
n-propylbenzene
Concen: 52.577 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 91 Resp: 550980
Ion Ratio Lower Upper
91 100
120 21.5 11.0 33.0





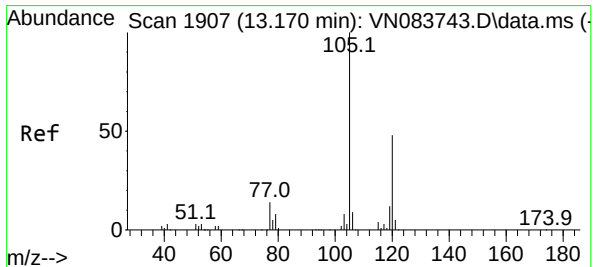
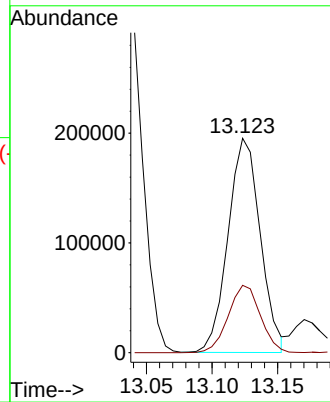
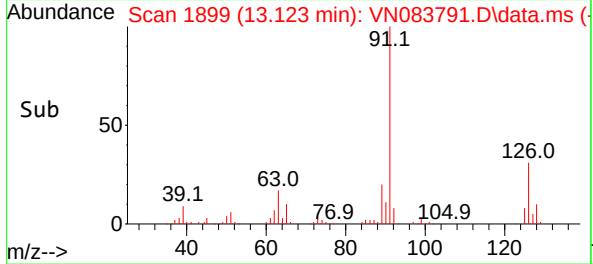
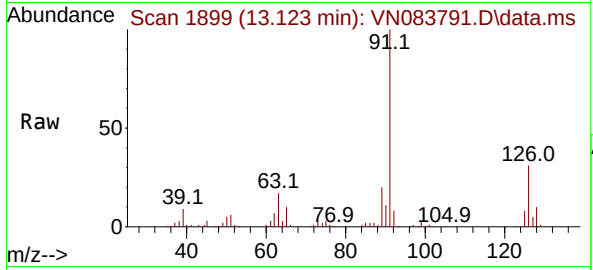
#79
2-Chlorotoluene
Concen: 49.973 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 33398
Ion Ratio Lower Upper
91 100
126 31.4 15.4 46.2

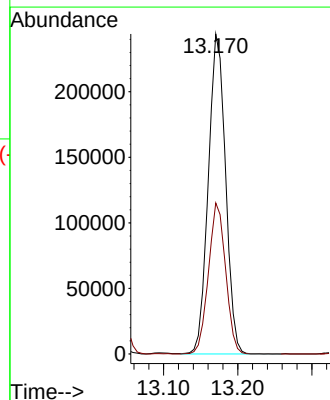
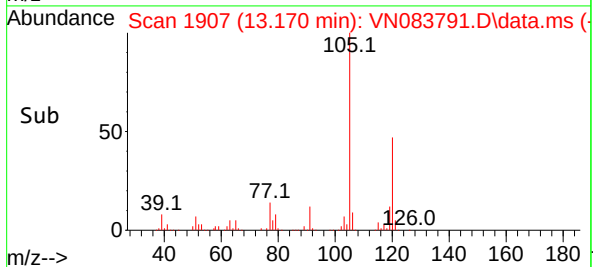
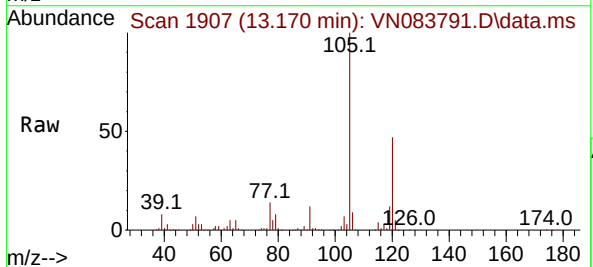
Manual Integrations
APPROVED

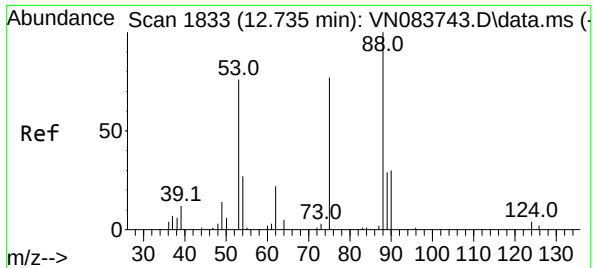
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#80
1,3,5-Trimethylbenzene
Concen: 51.928 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

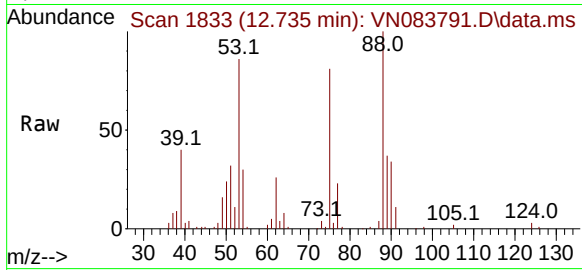
Tgt Ion:105 Resp: 394325
Ion Ratio Lower Upper
105 100
120 46.9 23.4 70.3





#81
trans-1,4-Dichloro-2-butene
Concen: 53.334 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

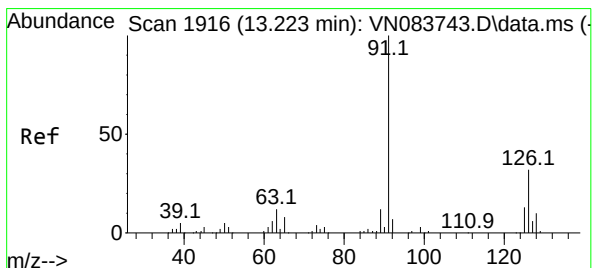
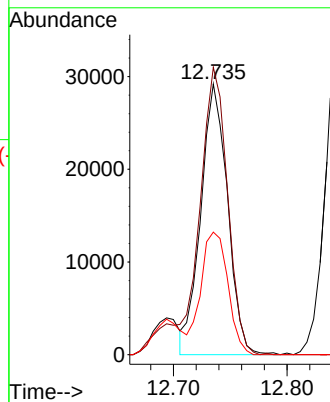
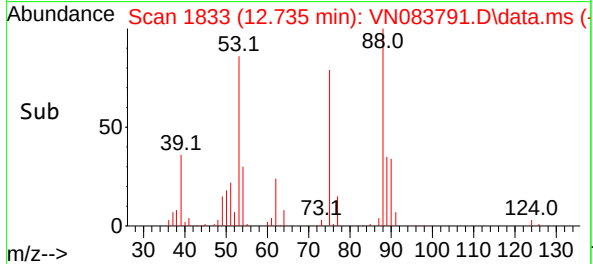
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 75 Resp: 47830
Ion Ratio Lower Upper
75 100
53 119.5 81.2 121.8
89 45.7 35.7 53.5

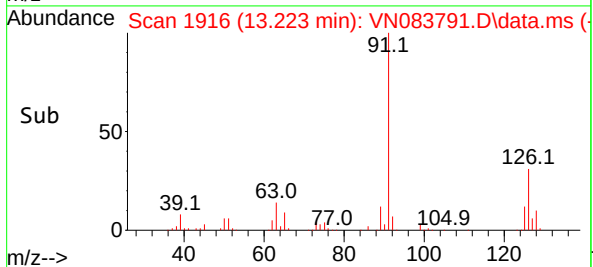
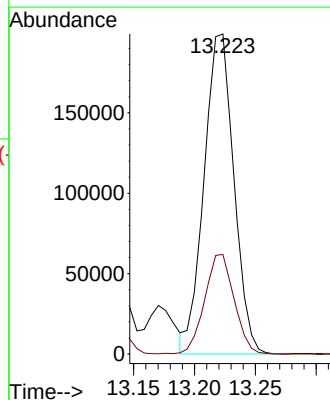
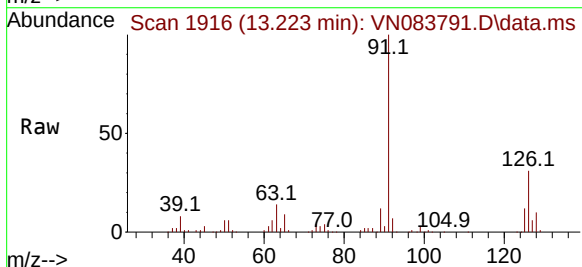
Manual Integrations
APPROVED

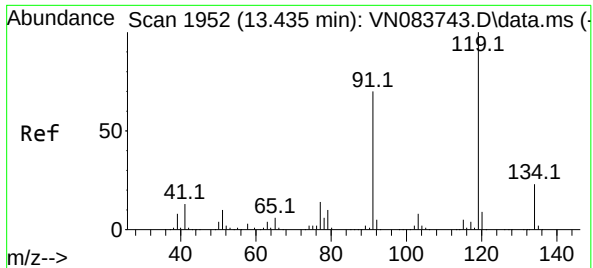
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#82
4-Chlorotoluene
Concen: 50.677 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 91 Resp: 339883
Ion Ratio Lower Upper
91 100
126 30.7 15.4 46.2





#83

tert-Butylbenzene

Concen: 52.456 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:119 Resp: 348498

Ion Ratio Lower Upper

119 100

91 69.2 34.5 103.6

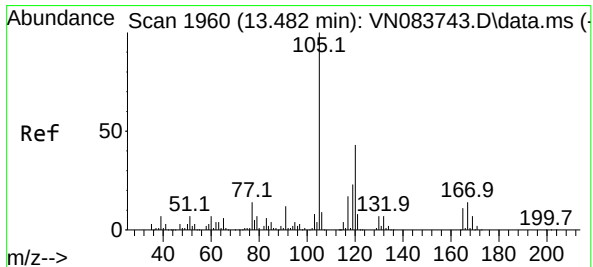
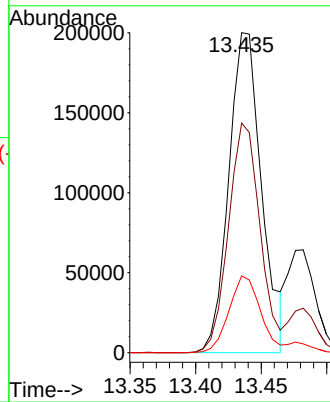
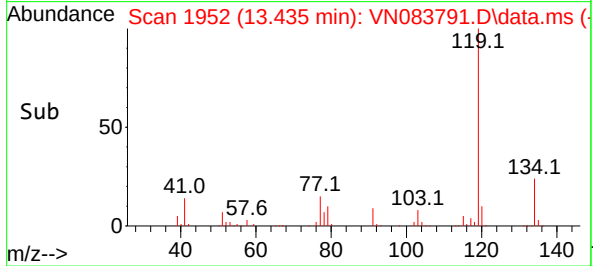
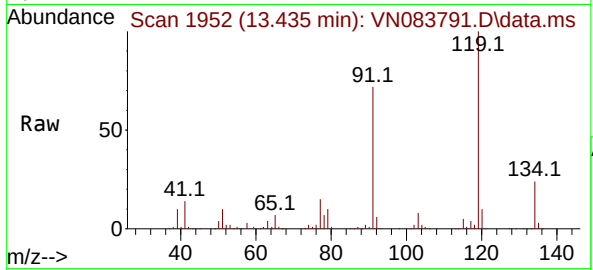
134 23.5 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#84

1,2,4-Trimethylbenzene

Concen: 52.561 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. -0.000 min

Lab File: VN083791.D

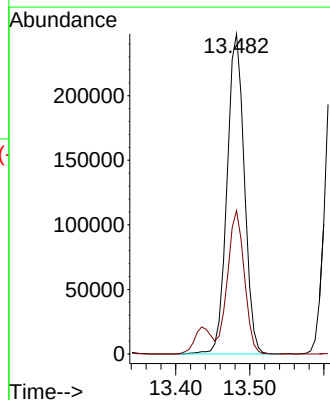
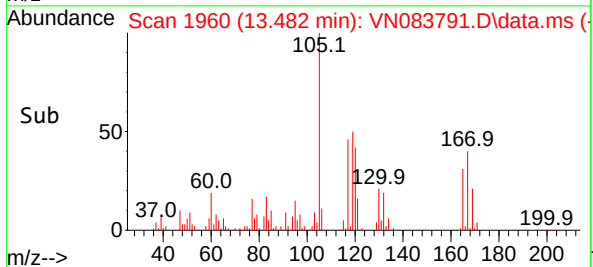
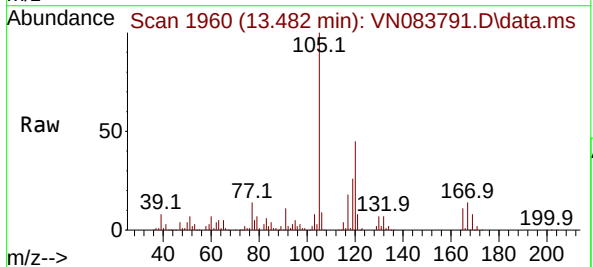
Acq: 11 Sep 2024 12:59

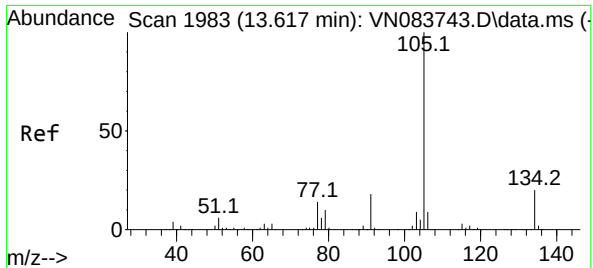
Tgt Ion:105 Resp: 400930

Ion Ratio Lower Upper

105 100

120 43.5 21.8 65.4





#85

sec-Butylbenzene

Concen: 53.744 ug/l

RT: 13.617 min Scan# 1983

Delta R.T. -0.000 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:105 Resp: 47353

Ion Ratio Lower Upper

105 100

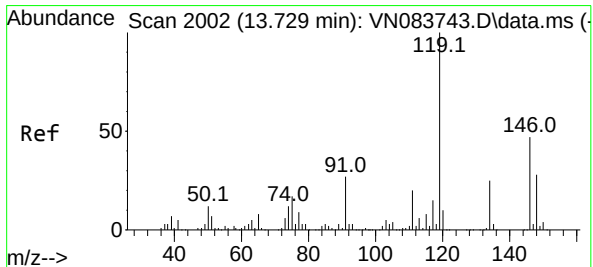
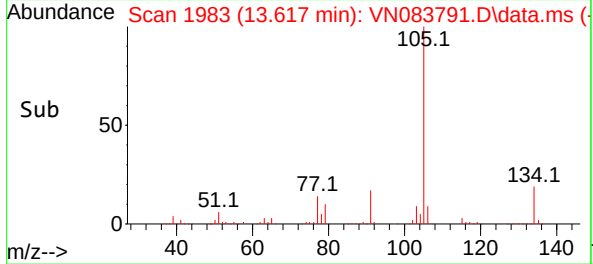
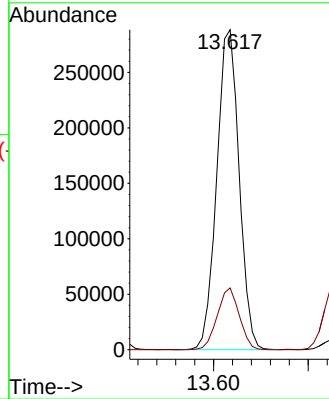
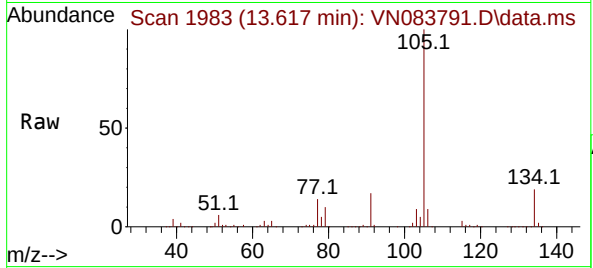
134 19.0 9.7 29.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#86

p-Isopropyltoluene

Concen: 53.893 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

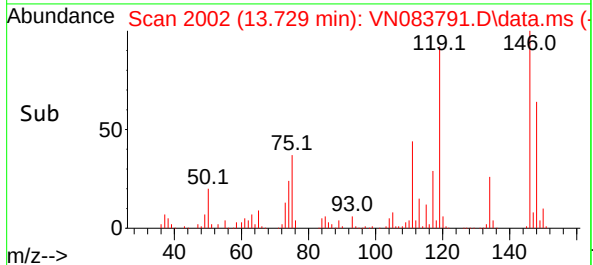
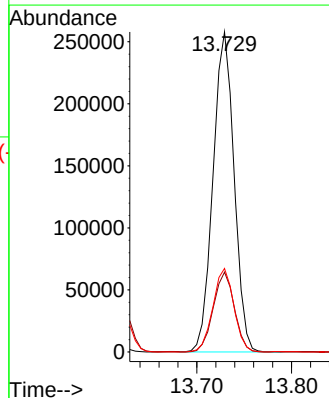
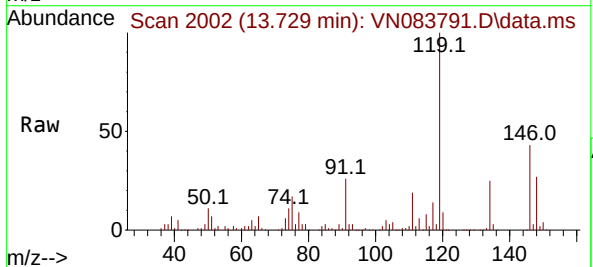
Tgt Ion:119 Resp: 398051

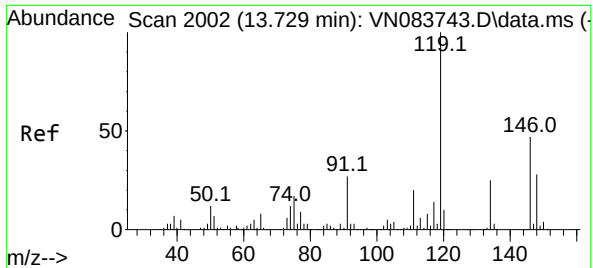
Ion Ratio Lower Upper

119 100

134 24.9 12.8 38.3

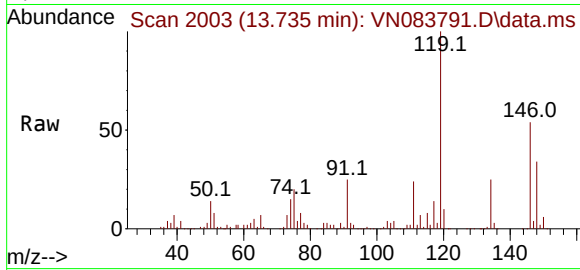
91 25.9 12.9 38.7





#87
1,3-Dichlorobenzene
Concen: 48.158 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

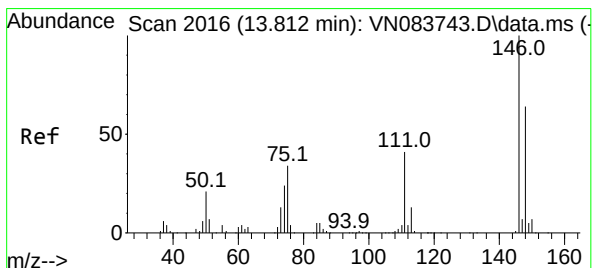
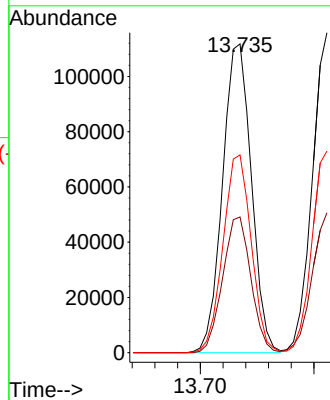
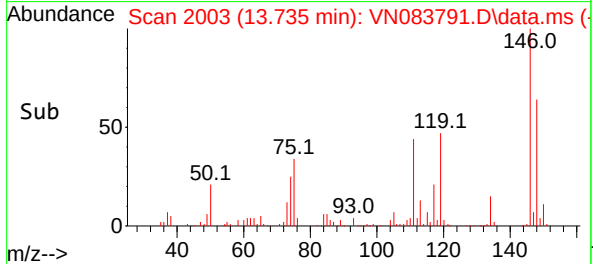
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:146 Resp: 19704
Ion Ratio Lower Upper
146 100
111 43.0 21.7 65.1
148 62.8 31.7 95.1

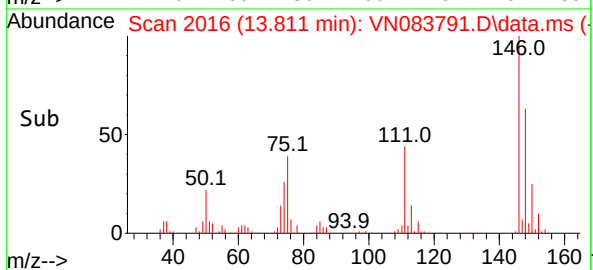
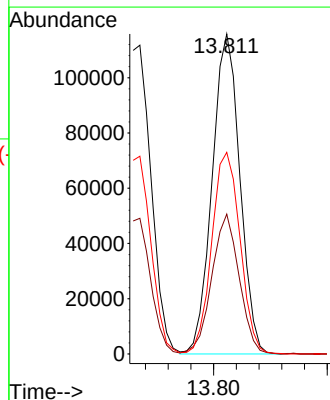
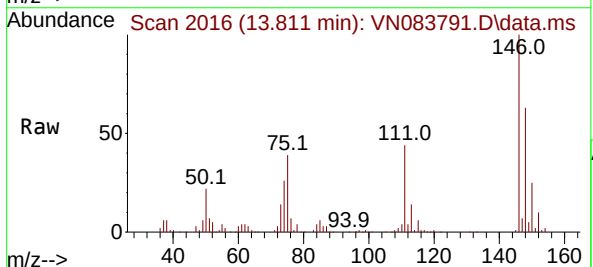
Manual Integrations
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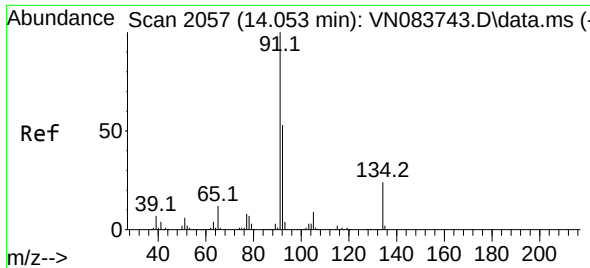
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#88
1,4-Dichlorobenzene
Concen: 47.361 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:146 Resp: 196222
Ion Ratio Lower Upper
146 100
111 43.2 21.3 64.0
148 64.4 32.0 96.2





#89

n-Butylbenzene

Concen: 51.891 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN083791.D

Acq: 11 Sep 2024 12:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 344110

Ion Ratio Lower Upper

91 100

92 52.4 26.7 80.1

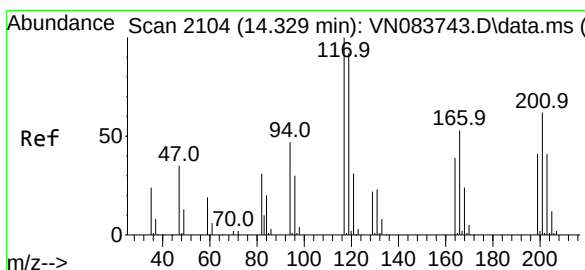
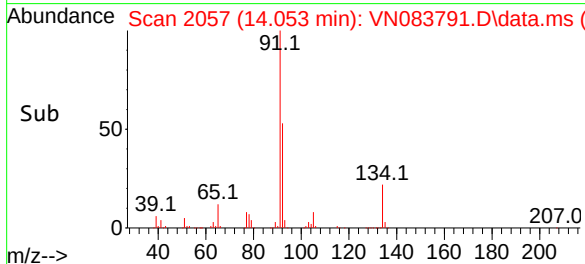
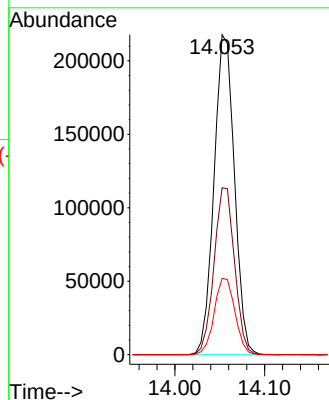
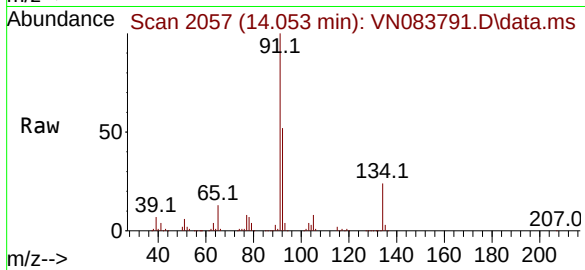
134 24.2 12.2 36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#90

Hexachloroethane

Concen: 51.321 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. 0.006 min

Lab File: VN083791.D

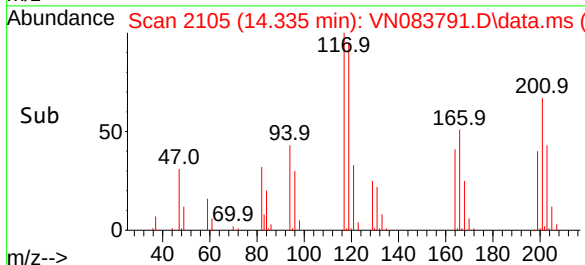
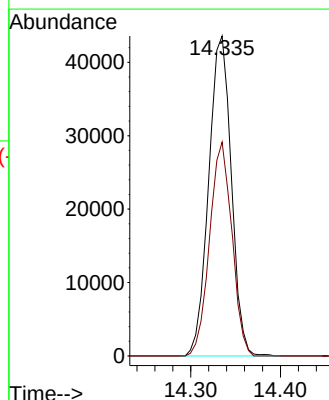
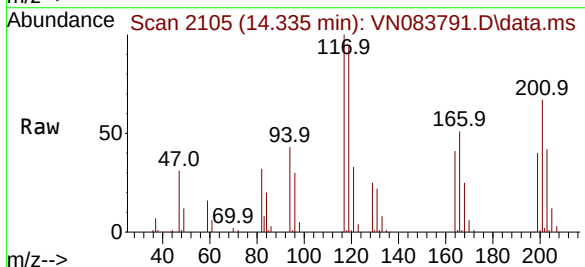
Acq: 11 Sep 2024 12:59

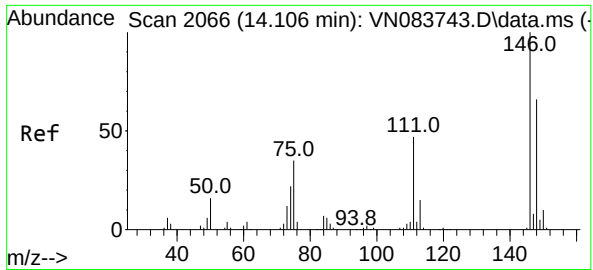
Tgt Ion:117 Resp: 76196

Ion Ratio Lower Upper

117 100

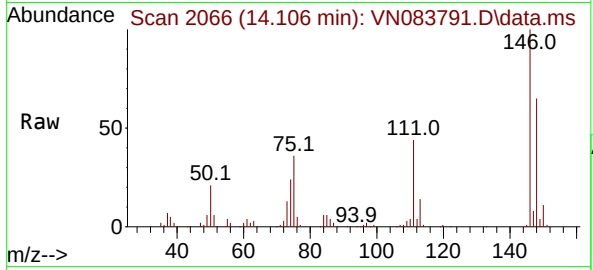
201 65.9 32.8 98.3





#91
1,2-Dichlorobenzene
Concen: 49.724 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

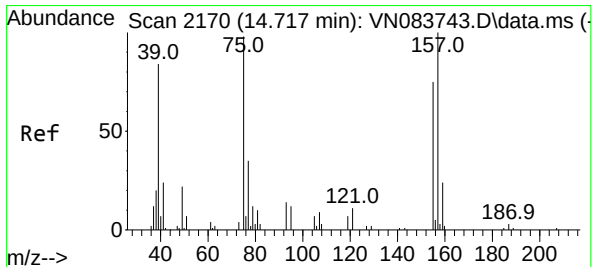
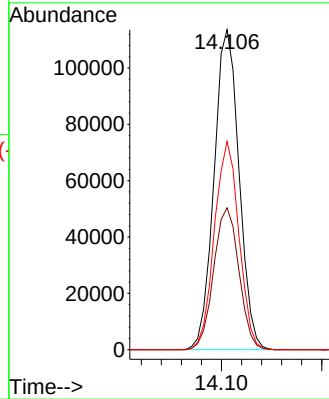
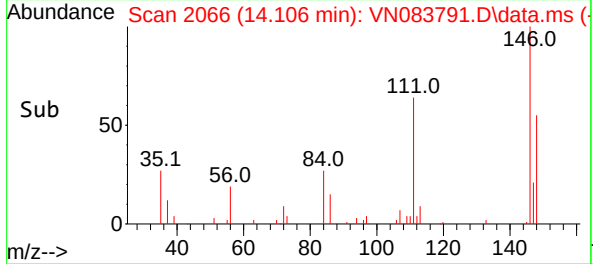
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:146 Resp: 196350
Ion Ratio Lower Upper
146 100
111 44.9 22.8 68.3
148 63.9 32.1 96.5

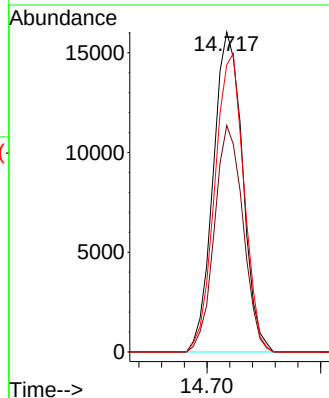
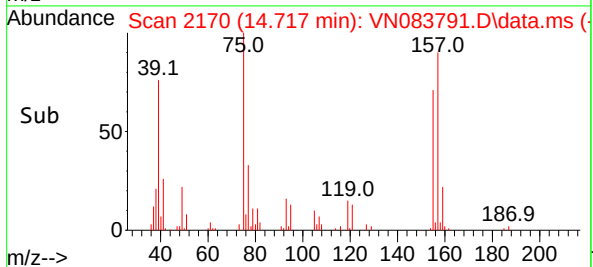
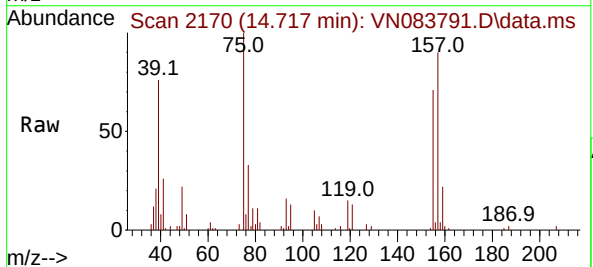
Manual Integrations
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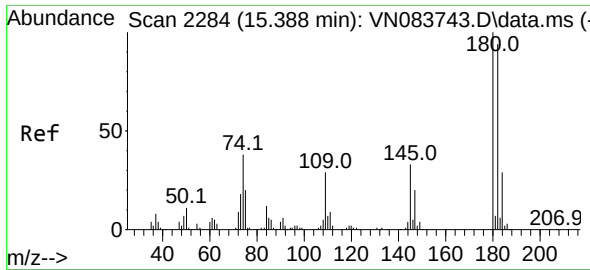
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 54.588 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

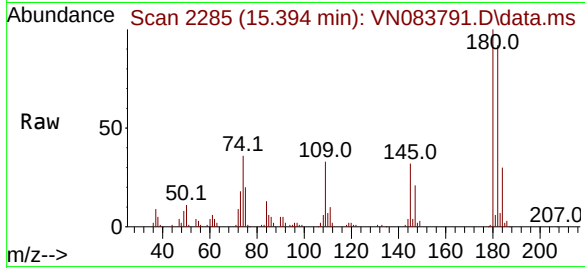
Tgt Ion: 75 Resp: 28797
Ion Ratio Lower Upper
75 100
155 68.9 35.9 107.7
157 92.5 47.5 142.5





#93
1,2,4-Trichlorobenzene
Concen: 49.134 ug/l
RT: 15.394 min Scan# 2285
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

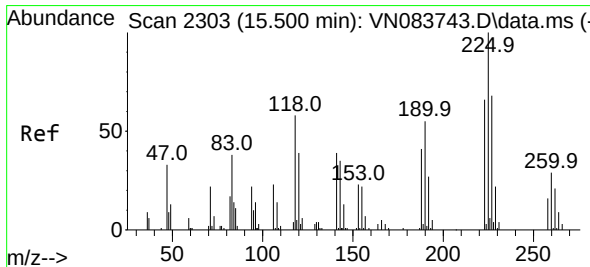
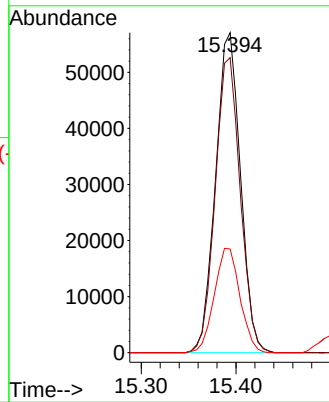
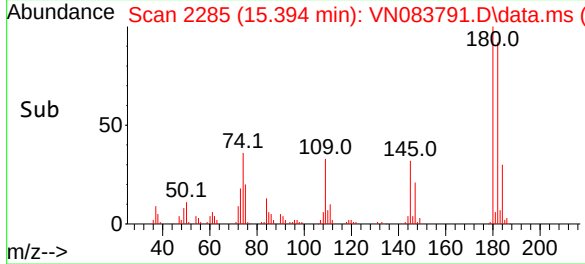
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:180 Resp: 10411
Ion Ratio Lower Upper
180 100
182 93.0 48.1 144.3
145 33.6 16.9 50.7

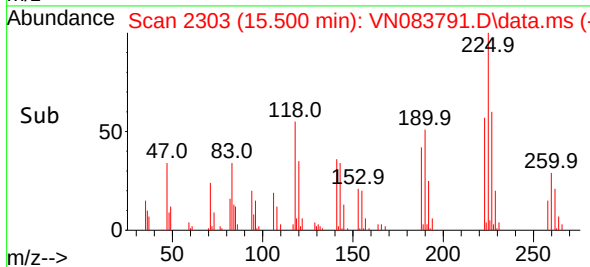
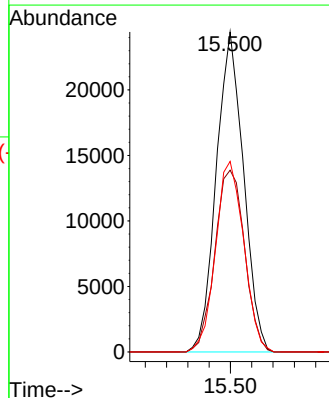
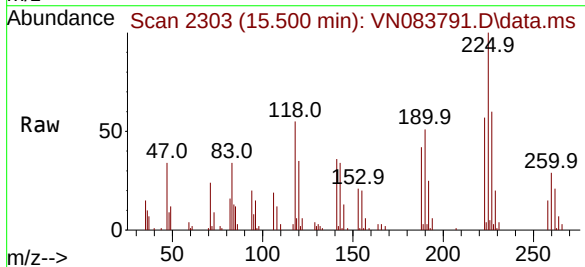
Manual Integrations
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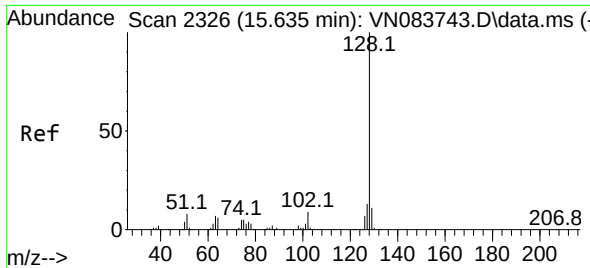
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#94
Hexachlorobutadiene
Concen: 48.150 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:225 Resp: 43330
Ion Ratio Lower Upper
225 100
223 62.0 31.9 95.5
227 61.7 32.0 96.2





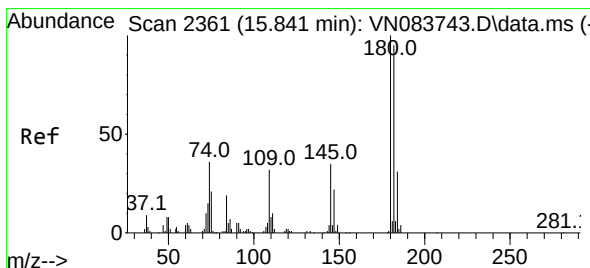
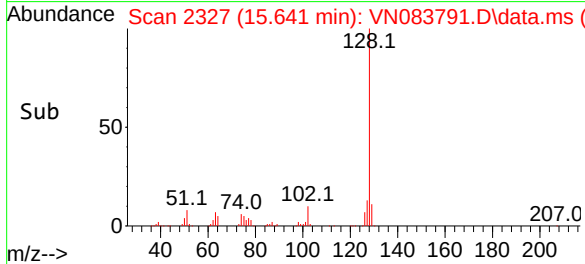
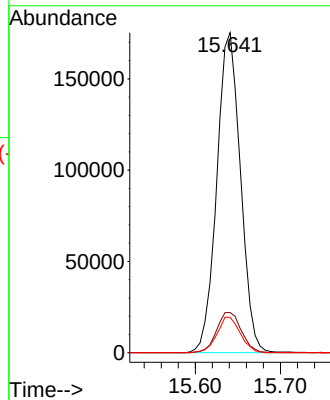
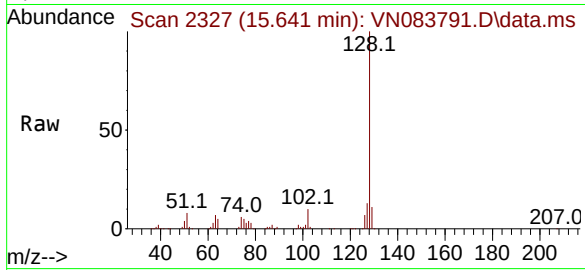
#95
Naphthalene
Concen: 52.555 ug/l
RT: 15.641 min Scan# 2326
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 338814
Ion Ratio Lower Upper
128 100
127 13.2 10.2 15.2
129 10.9 8.7 13.1

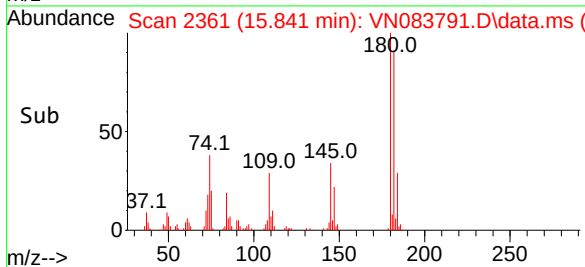
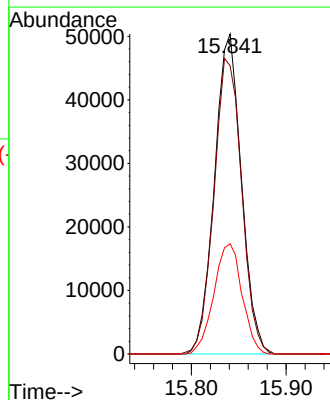
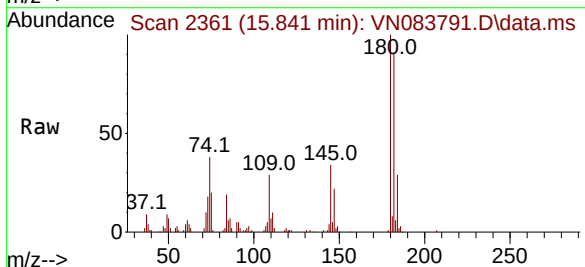
Manual Integrations
APPROVED

Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#96
1,2,3-Trichlorobenzene
Concen: 49.108 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:180 Resp: 99451
Ion Ratio Lower Upper
180 100
182 95.1 47.1 141.4
145 36.0 17.8 53.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
 Data File : VN083791.D
 Acq On : 11 Sep 2024 12:59
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Sep 12 02:06:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 15:18:56 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	88	0.00
2 T	Dichlorodifluoromethane	0.581	0.608	-4.6	90	0.00
3 P	Chloromethane	0.707	0.632	10.6	90	0.00
4 C	Vinyl Chloride	0.636	0.645	-1.4#	87	0.00
5 T	Bromomethane	0.365	0.366	-0.3	90	0.00
6 T	Chloroethane	0.446	0.435	2.5	89	0.00
7 T	Trichlorofluoromethane	1.080	1.102	-2.0	91	0.00
8 T	Diethyl Ether	0.362	0.376	-3.9	91	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.573	0.610	-6.5	92	0.00
10 T	Methyl Iodide	0.728	0.753	-3.4	88	0.00
11 T	Tert butyl alcohol	0.101	0.108	-6.9	94	0.00
12 CM	1,1-Dichloroethene	0.541	0.546	-0.9#	86	0.00
13 T	Acrolein	0.100	0.101	-1.0	86	0.00
14 T	Allyl chloride	0.964	1.011	-4.9	89	0.00
15 T	Acrylonitrile	0.275	0.290	-5.5	93	0.00
16 T	Acetone	0.302	0.326	-7.9	97	0.00
17 T	Carbon Disulfide	1.513	1.434	5.2	83	0.00
18 T	Methyl Acetate	0.735	0.703	4.4	93	0.00
19 T	Methyl tert-butyl Ether	1.957	2.039	-4.2	90	0.00
20 T	Methylene Chloride	0.618	0.628	-1.6	91	0.00
21 T	trans-1,2-Dichloroethene	0.580	0.566	2.4	86	0.00
22 T	Diisopropyl ether	1.984	2.111	-6.4	91	0.00
23 T	Vinyl Acetate	1.453	1.609	-10.7	92	0.00
24 P	1,1-Dichloroethane	1.143	1.149	-0.5	89	0.00
25 T	2-Butanone	0.397	0.423	-6.5	95	0.00
26 T	2,2-Dichloropropane	1.052	1.120	-6.5	91	0.00
27 T	cis-1,2-Dichloroethene	0.688	0.705	-2.5	87	0.00
28 T	Bromochloromethane	0.481	0.479	0.4	81	0.00
29 T	Tetrahydrofuran	0.235	0.257	-9.4	94	0.00
30 C	Chloroform	1.213	1.232	-1.6#	89	0.00
31 T	Cyclohexane	1.090	1.023	6.1	89	0.00
32 T	1,1,1-Trichloroethane	1.116	1.149	-3.0	89	0.00
33 S	1,2-Dichloroethane-d4	0.754	0.740	1.9	77	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	85	0.00
35 S	Dibromofluoromethane	0.320	0.308	3.8	77	0.00
36 T	1,1-Dichloropropene	0.482	0.494	-2.5	89	0.00
37 T	Ethyl Acetate	0.437	0.509	-16.5	95	0.00
38 T	Carbon Tetrachloride	0.547	0.579	-5.9	88	0.00
39 T	Methylcyclohexane	0.548	0.600	-9.5	89	0.00
40 TM	Benzene	1.450	1.541	-6.3	91	0.00
41 T	Methacrylonitrile	0.259	0.292	-12.7	94	0.00
42 TM	1,2-Dichloroethane	0.542	0.581	-7.2	91	0.00
43 T	Isopropyl Acetate	0.792	1.121	-41.5#	120	0.00
44 TM	Trichloroethene	0.336	0.352	-4.8	88	0.00
45 C	1,2-Dichloropropane	0.350	0.380	-8.6#	93	0.00
46 T	Dibromomethane	0.245	0.264	-7.8	89	0.00
47 T	Bromodichloromethane	0.531	0.588	-10.7	91	0.00
48 T	Methyl methacrylate	0.376	0.431	-14.6	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
 Data File : VN083791.D
 Acq On : 11 Sep 2024 12:59
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Sep 12 02:06:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 15:18:56 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	0.006	0.007	-16.7	98	0.00
50 S	Toluene-d8	1.107	1.130	-2.1	76	0.00
51 T	4-Methyl-2-Pentanone	0.431	0.497	-15.3	95	0.00
52 CM	Toluene	0.887	0.956	-7.8#	90	0.00
53 T	t-1,3-Dichloropropene	0.539	0.591	-9.6	90	0.00
54 T	cis-1,3-Dichloropropene	0.566	0.623	-10.1	90	0.00
55 T	1,1,2-Trichloroethane	0.331	0.352	-6.3	91	0.00
56 T	Ethyl methacrylate	0.509	0.597	-17.3	91	0.00
57 T	1,3-Dichloropropane	0.569	0.618	-8.6	92	0.00
58 T	2-Chloroethyl Vinyl ether	0.184	0.242	-31.5#	119	0.00
59 T	2-Hexanone	0.319	0.373	-16.9	97	0.00
60 T	Dibromochloromethane	0.371	0.416	-12.1	90	0.00
61 T	1,2-Dibromoethane	0.330	0.358	-8.5	92	0.00
62 S	4-Bromofluorobenzene	0.457	0.447	2.2	78	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00
64 T	Tetrachloroethene	0.333	0.338	-1.5	90	0.00
65 PM	Chlorobenzene	1.111	1.131	-1.8	89	0.00
66 T	1,1,1,2-Tetrachloroethane	0.385	0.405	-5.2	89	0.00
67 C	Ethyl Benzene	1.974	2.126	-7.7#	90	0.00
68 T	m/p-Xylenes	0.733	0.787	-7.4	90	0.00
69 T	o-Xylene	0.710	0.775	-9.2	90	0.00
70 T	Styrene	1.164	1.300	-11.7	90	0.00
71 P	Bromoform	0.260	0.301	-15.8	93	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
73 T	Isopropylbenzene	3.868	3.980	-2.9	89	0.00
74 T	N-amyl acetate	1.650	1.801	-9.2	95	0.00
75 P	1,1,2,2-Tetrachloroethane	1.137	1.122	1.3	94	0.00
76 T	1,2,3-Trichloropropane	1.009	0.979	3.0	94	0.00
77 T	Bromobenzene	0.931	0.895	3.9	91	0.00
78 T	n-propylbenzene	4.501	4.733	-5.2	91	0.00
79 T	2-Chlorotoluene	2.870	2.869	0.0	91	0.00
80 T	1,3,5-Trimethylbenzene	3.261	3.387	-3.9	91	0.00
81 T	trans-1,4-Dichloro-2-butene	0.385	0.411	-6.8	91	0.00
82 T	4-Chlorotoluene	2.880	2.920	-1.4	90	0.00
83 T	tert-Butylbenzene	2.853	2.994	-4.9	91	0.00
84 T	1,2,4-Trimethylbenzene	3.276	3.444	-5.1	90	0.00
85 T	sec-Butylbenzene	3.784	4.068	-7.5	91	0.00
86 T	p-Isopropyltoluene	3.172	3.419	-7.8	91	0.00
87 T	1,3-Dichlorobenzene	1.757	1.693	3.6	89	0.00
88 T	1,4-Dichlorobenzene	1.779	1.685	5.3	88	0.00
89 T	n-Butylbenzene	2.848	2.956	-3.8	90	0.00
90 T	Hexachloroethane	0.638	0.655	-2.7	93	0.00
91 T	1,2-Dichlorobenzene	1.696	1.687	0.5	91	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.227	0.247	-8.8	95	0.00
93 T	1,2,4-Trichlorobenzene	0.910	0.894	1.8	88	0.00
94 T	Hexachlorobutadiene	0.386	0.372	3.6	91	0.00
95 T	Naphthalene	2.769	2.910	-5.1	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083791.D
Acq On : 11 Sep 2024 12:59
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Sep 12 02:06:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 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	0.870	0.854	1.8	87	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
 Data File : VN083791.D
 Acq On : 11 Sep 2024 12:59
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Sep 12 02:06:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 15:18:56 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	88	0.00
2 T	Dichlorodifluoromethane	50.000	52.380	-4.8	90	0.00
3 P	Chloromethane	50.000	53.426	-6.9	90	0.00
4 C	Vinyl Chloride	50.000	50.667	-1.3#	87	0.00
5 T	Bromomethane	50.000	50.023	-0.0	90	0.00
6 T	Chloroethane	50.000	48.719	2.6	89	0.00
7 T	Trichlorofluoromethane	50.000	50.999	-2.0	91	0.00
8 T	Diethyl Ether	50.000	51.923	-3.8	91	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	53.219	-6.4	92	0.00
10 T	Methyl Iodide	50.000	51.680	-3.4	88	0.00
11 T	Tert butyl alcohol	250.000	267.118	-6.8	94	0.00
12 CM	1,1-Dichloroethene	50.000	50.448	-0.9#	86	0.00
13 T	Acrolein	250.000	253.706	-1.5	86	0.00
14 T	Allyl chloride	50.000	52.436	-4.9	89	0.00
15 T	Acrylonitrile	250.000	263.967	-5.6	93	0.00
16 T	Acetone	250.000	269.645	-7.9	97	0.00
17 T	Carbon Disulfide	50.000	47.389	5.2	83	0.00
18 T	Methyl Acetate	50.000	56.072	-12.1	93	0.00
19 T	Methyl tert-butyl Ether	50.000	52.089	-4.2	90	0.00
20 T	Methylene Chloride	50.000	50.788	-1.6	91	0.00
21 T	trans-1,2-Dichloroethene	50.000	48.855	2.3	86	0.00
22 T	Diisopropyl ether	50.000	53.200	-6.4	91	0.00
23 T	Vinyl Acetate	250.000	276.919	-10.8	92	0.00
24 P	1,1-Dichloroethane	50.000	50.268	-0.5	89	0.00
25 T	2-Butanone	250.000	265.951	-6.4	95	0.00
26 T	2,2-Dichloropropane	50.000	53.219	-6.4	91	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.241	-2.5	87	0.00
28 T	Bromochloromethane	50.000	49.768	0.5	81	0.00
29 T	Tetrahydrofuran	250.000	273.716	-9.5	94	0.00
30 C	Chloroform	50.000	50.756	-1.5#	89	0.00
31 T	Cyclohexane	50.000	46.943	6.1	89	0.00
32 T	1,1,1-Trichloroethane	50.000	51.509	-3.0	89	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.106	1.8	77	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	85	0.00
35 S	Dibromofluoromethane	50.000	48.184	3.6	77	0.00
36 T	1,1-Dichloropropene	50.000	51.229	-2.5	89	0.00
37 T	Ethyl Acetate	50.000	58.242	-16.5	95	0.00
38 T	Carbon Tetrachloride	50.000	52.977	-6.0	88	0.00
39 T	Methylcyclohexane	50.000	54.700	-9.4	89	0.00
40 TM	Benzene	50.000	53.148	-6.3	91	0.00
41 T	Methacrylonitrile	50.000	56.528	-13.1	94	0.00
42 TM	1,2-Dichloroethane	50.000	53.581	-7.2	91	0.00
43 T	Isopropyl Acetate	50.000	70.750	-41.5#	120	0.00
44 TM	Trichloroethene	50.000	52.393	-4.8	88	0.00
45 C	1,2-Dichloropropane	50.000	54.190	-8.4#	93	0.00
46 T	Dibromomethane	50.000	53.782	-7.6	89	0.00
47 T	Bromodichloromethane	50.000	55.370	-10.7	91	0.00
48 T	Methyl methacrylate	50.000	57.280	-14.6	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
 Data File : VN083791.D
 Acq On : 11 Sep 2024 12:59
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Sep 12 02:06:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 15:18:56 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	1114.069	-11.4	98	0.00
50 S	Toluene-d8	50.000	51.066	-2.1	76	0.00
51 T	4-Methyl-2-Pentanone	250.000	287.840	-15.1	95	0.00
52 CM	Toluene	50.000	53.901	-7.8#	90	0.00
53 T	t-1,3-Dichloropropene	50.000	54.843	-9.7	90	0.00
54 T	cis-1,3-Dichloropropene	50.000	55.039	-10.1	90	0.00
55 T	1,1,2-Trichloroethane	50.000	53.088	-6.2	91	0.00
56 T	Ethyl methacrylate	50.000	58.555	-17.1	91	0.00
57 T	1,3-Dichloropropane	50.000	54.326	-8.7	92	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	329.440	-31.8#	119	0.00
59 T	2-Hexanone	250.000	292.470	-17.0	97	0.00
60 T	Dibromochloromethane	50.000	56.063	-12.1	90	0.00
61 T	1,2-Dibromoethane	50.000	54.204	-8.4	92	0.00
62 S	4-Bromofluorobenzene	50.000	48.909	2.2	78	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	86	0.00
64 T	Tetrachloroethene	50.000	50.762	-1.5	90	0.00
65 PM	Chlorobenzene	50.000	50.891	-1.8	89	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	52.601	-5.2	89	0.00
67 C	Ethyl Benzene	50.000	53.856	-7.7#	90	0.00
68 T	m/p-Xylenes	100.000	107.352	-7.4	90	0.00
69 T	o-Xylene	50.000	54.632	-9.3	90	0.00
70 T	Styrene	50.000	55.807	-11.6	90	0.00
71 P	Bromoform	50.000	58.043	-16.1	93	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	91	0.00
73 T	Isopropylbenzene	50.000	51.446	-2.9	89	0.00
74 T	N-amyl acetate	50.000	54.568	-9.1	95	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.340	1.3	94	0.00
76 T	1,2,3-Trichloropropane	50.000	48.510	3.0	94	0.00
77 T	Bromobenzene	50.000	48.069	3.9	91	0.00
78 T	n-propylbenzene	50.000	52.577	-5.2	91	0.00
79 T	2-Chlorotoluene	50.000	49.973	0.1	91	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.928	-3.9	91	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	53.334	-6.7	91	0.00
82 T	4-Chlorotoluene	50.000	50.677	-1.4	90	0.00
83 T	tert-Butylbenzene	50.000	52.456	-4.9	91	0.00
84 T	1,2,4-Trimethylbenzene	50.000	52.561	-5.1	90	0.00
85 T	sec-Butylbenzene	50.000	53.744	-7.5	91	0.00
86 T	p-Isopropyltoluene	50.000	53.893	-7.8	91	0.00
87 T	1,3-Dichlorobenzene	50.000	48.158	3.7	89	0.00
88 T	1,4-Dichlorobenzene	50.000	47.361	5.3	88	0.00
89 T	n-Butylbenzene	50.000	51.891	-3.8	90	0.00
90 T	Hexachloroethane	50.000	51.321	-2.6	93	0.00
91 T	1,2-Dichlorobenzene	50.000	49.724	0.6	91	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	54.588	-9.2	95	0.00
93 T	1,2,4-Trichlorobenzene	50.000	49.134	1.7	88	0.00
94 T	Hexachlorobutadiene	50.000	48.150	3.7	91	0.00
95 T	Naphthalene	50.000	52.555	-5.1	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083791.D
Acq On : 11 Sep 2024 12:59
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Sep 12 02:06:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 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	49.108	1.8	87	0.00

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



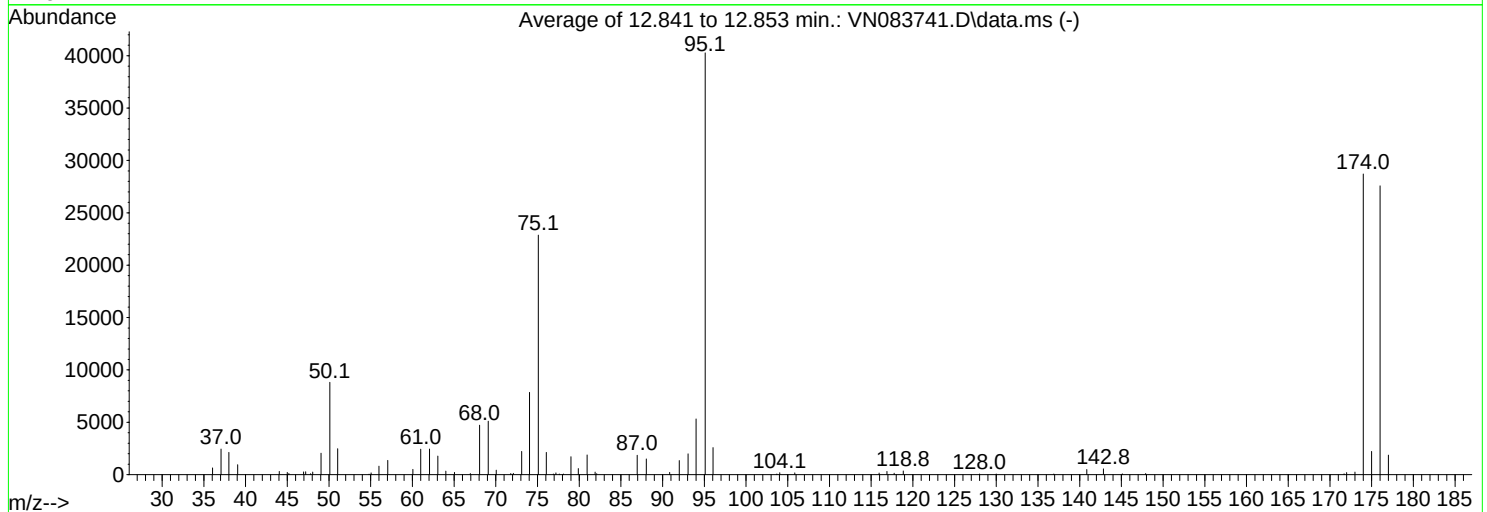
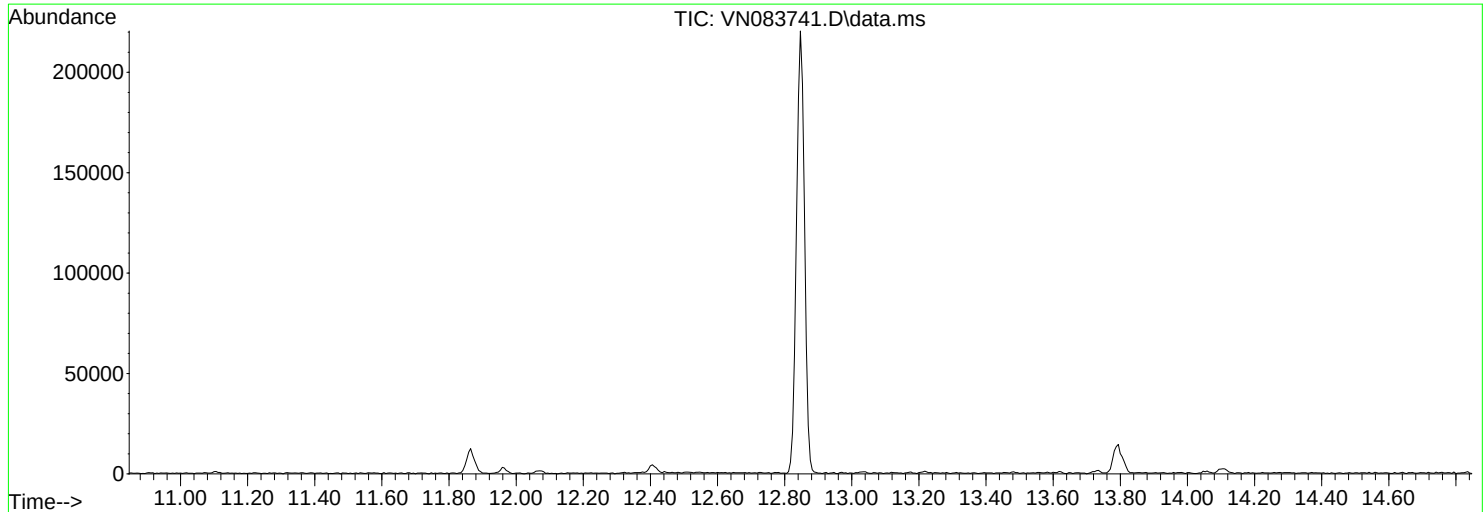
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083741.D
Acq On : 10 Sep 2024 08:02
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Title : SW846 8260
Last Update : Wed Sep 11 15:18:56 2024



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

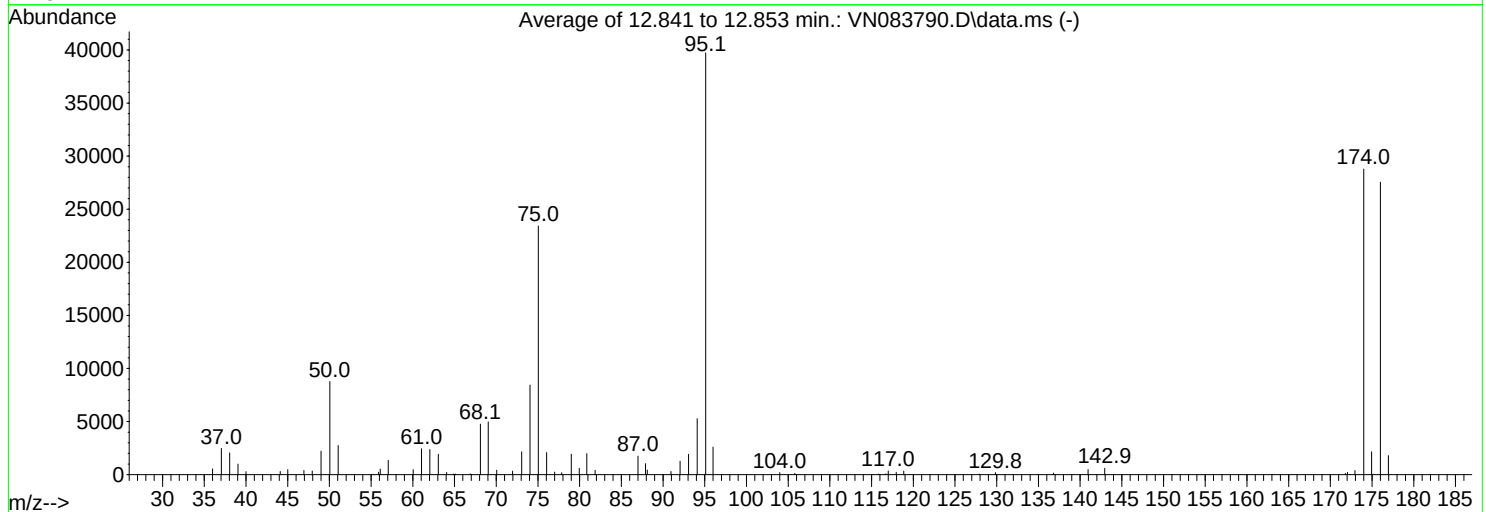
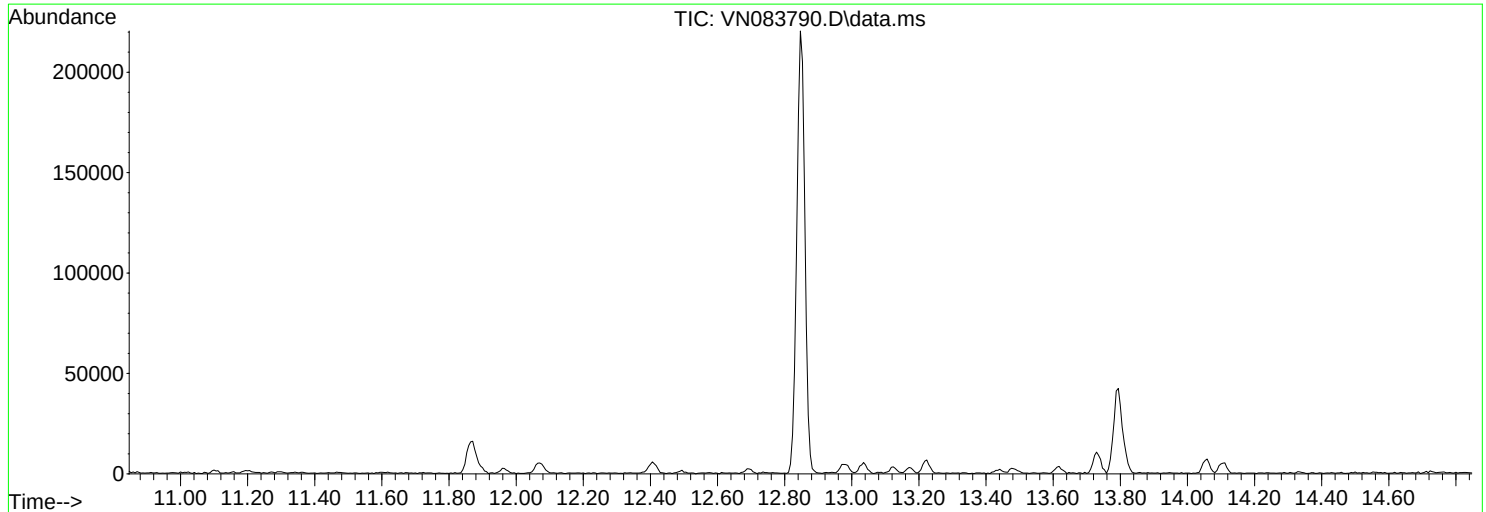
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.9	8811	PASS
75	95	30	60	56.8	22877	PASS
95	95	100	100	100.0	40272	PASS
96	95	5	9	6.4	2577	PASS
173	174	0.00	2	0.9	246	PASS
174	95	50	100	71.3	28701	PASS
175	174	5	9	7.7	2220	PASS
176	174	95	101	96.1	27579	PASS
177	176	5	9	6.8	1862	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083790.D
Acq On : 11 Sep 2024 12:25
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Title : SW846 8260
Last Update : Wed Sep 11 15:18:56 2024



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.1	8779	PASS
75	95	30	60	58.9	23416	PASS
95	95	100	100	100.0	39728	PASS
96	95	5	9	6.5	2589	PASS
173	174	0.00	2	1.4	391	PASS
174	95	50	100	72.5	28787	PASS
175	174	5	9	7.5	2160	PASS
176	174	95	101	95.7	27557	PASS
177	176	5	9	6.5	1794	PASS

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0910WBL01	SDG No.:	P3845
Lab Sample ID:	VN0910WBL01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083752.D	1		09/10/24 14:34	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
141-78-6	Ethyl Acetate	0.38	U	0.38	1.00	ug/L
108-21-4	Isopropyl Acetate	0.29	U	0.29	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
109-99-9	Tetrahydrofuran	1.20	U	1.20	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-65-0	Tert butyl alcohol	5.60	U	5.60	25.0	ug/L
60-29-7	Diethyl Ether	0.20	U	0.20	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
107-02-8	Acrolein	6.70	U	6.70	25.0	ug/L
107-13-1	Acrylonitrile	0.90	U	0.90	5.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
108-05-4	Vinyl Acetate	0.71	U	0.71	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
594-20-7	2,2-Dichloropropane	0.31	U	0.31	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0910WBL01	SDG No.:	P3845
Lab Sample ID:	VN0910WBL01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083752.D	1		09/10/24 14:34	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
563-58-6	1,1-Dichloropropene	0.18	U	0.18	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
74-95-3	Dibromomethane	0.23	U	0.23	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
142-28-9	1,3-Dichloropropane	0.17	U	0.17	1.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	1.80	U	1.80	5.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.39	U	0.39	1.00	ug/L

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Waste Water PT		Date Received:	
Client Sample ID:	VN0910WBL01		SDG No.:	P3845
Lab Sample ID:	VN0910WBL01		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:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083752.D	1		09/10/24 14:34	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
108-86-1	Bromobenzene	0.26	U	0.26	1.00	ug/L
103-65-1	n-propylbenzene	0.14	U	0.14	1.00	ug/L
95-49-8	2-Chlorotoluene	0.16	U	0.16	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.18	U	0.18	1.00	ug/L
106-43-4	4-Chlorotoluene	0.18	U	0.18	1.00	ug/L
98-06-6	tert-Butylbenzene	0.17	U	0.17	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.18	U	0.18	1.00	ug/L
135-98-8	sec-Butylbenzene	0.17	U	0.17	1.00	ug/L
99-87-6	p-Isopropyltoluene	0.15	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
104-51-8	n-Butylbenzene	0.22	U	0.22	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-68-3	Hexachlorobutadiene	0.31	U	0.31	1.00	ug/L
91-20-3	Naphthalene	0.59	U	0.59	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
628-63-7	N-amyl acetate	0.23	U	0.23	1.00	ug/L
74-88-4	Methyl Iodide	1.20	U	1.20	5.00	ug/L
107-05-1	Allyl chloride	0.24	U	0.24	1.00	ug/L
126-98-7	Methacrylonitrile	0.31	U	0.31	1.00	ug/L
97-63-2	Ethyl methacrylate	0.16	U	0.16	1.00	ug/L
108-20-3	Diisopropyl ether	0.16	U	0.16	1.00	ug/L
123-91-1	1,4-Dioxane	6.50	U	6.50	100	ug/L
80-62-6	Methyl methacrylate	0.32	U	0.32	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.6		74 - 125	105%	SPK: 50
1868-53-7	Dibromofluoromethane	48.0		75 - 124	96%	SPK: 50
2037-26-5	Toluene-d8	48.1		86 - 113	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.5		77 - 121	107%	SPK: 50

INTERNAL STANDARDS

Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	
Project:	NJ Waste Water PT			Date Received:	
Client Sample ID:	VN0910WBL01			SDG No.:	P3845
Lab Sample ID:	VN0910WBL01			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:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083752.D	1		09/10/24 14:34	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	124000	8.224			
540-36-3	1,4-Difluorobenzene	258000	9.1			
3114-55-4	Chlorobenzene-d5	273000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	127000	13.788			
67-72-1	Hexachloroethane					

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_N\Data\VN091024\
Data File : VN083752.D
Acq On : 10 Sep 2024 14:34
Operator : JC\MD
Sample : VN0910WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBL01

Quant Time: Sep 11 03:28:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	124023	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	258209	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	273442	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	126892	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	98276	52.551	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	105.100%
35) Dibromofluoromethane	8.165	113	79380	48.021	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.040%
50) Toluene-d8	10.565	98	275129	48.145	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	96.300%
62) 4-Bromofluorobenzene	12.847	95	126091	53.481	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	106.960%

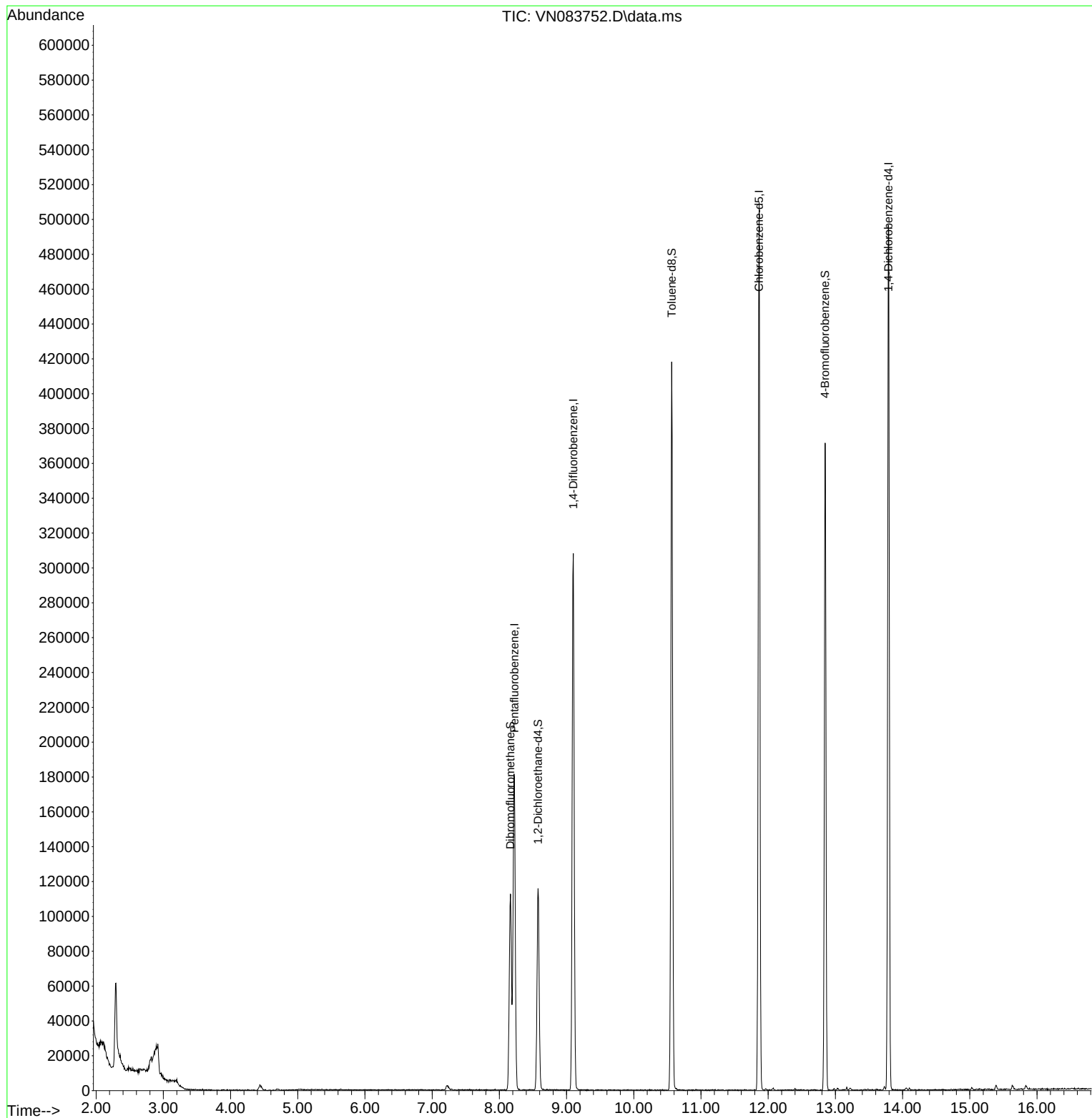
Target Compounds	Qvalue

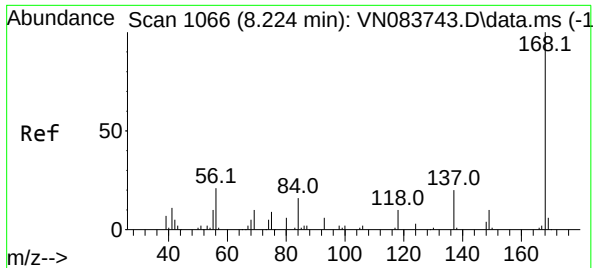
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083752.D
Acq On : 10 Sep 2024 14:34
Operator : JC\MD
Sample : VN0910WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBL01

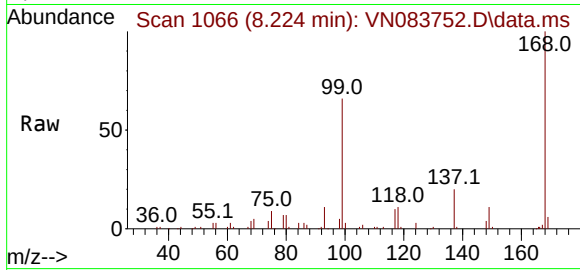
Quant Time: Sep 11 03:28:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration



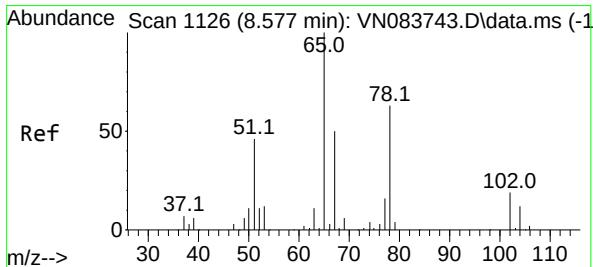
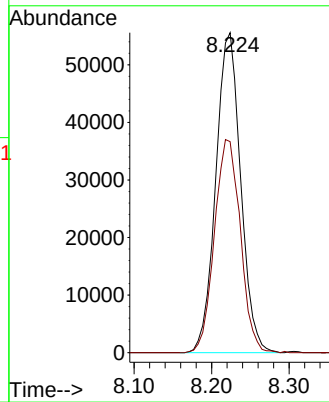
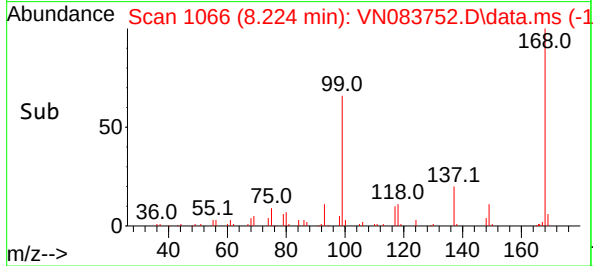


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083752.D
Acq: 10 Sep 2024 14:34

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBL01

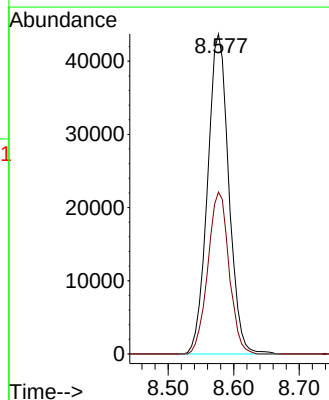
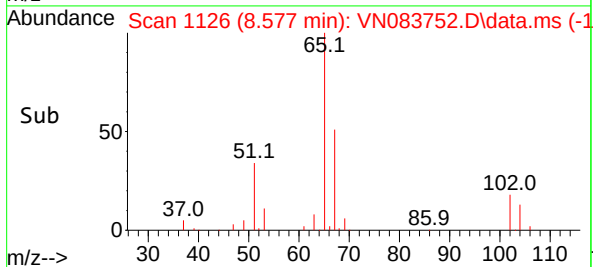
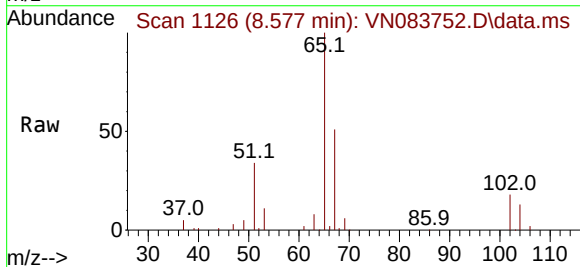


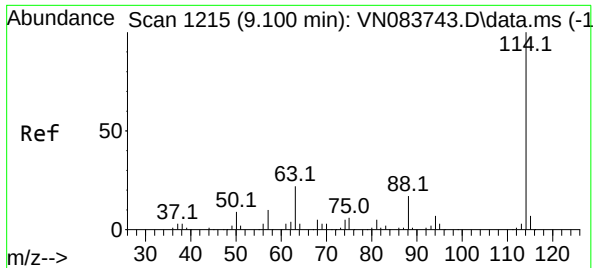
Tgt Ion:168 Resp: 124023
Ion Ratio Lower Upper
168 100
99 65.9 54.2 81.2



#33
1,2-Dichloroethane-d4
Concen: 52.551 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN083752.D
Acq: 10 Sep 2024 14:34

Tgt Ion: 65 Resp: 98276
Ion Ratio Lower Upper
65 100
67 50.4 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083752.D

Acq: 10 Sep 2024 14:34

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBL01

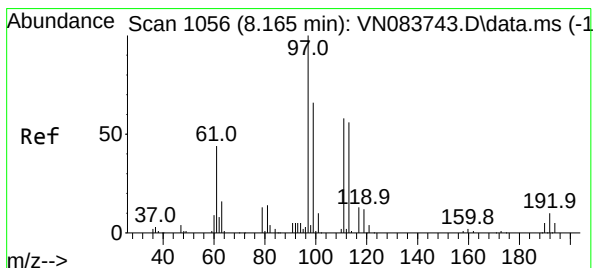
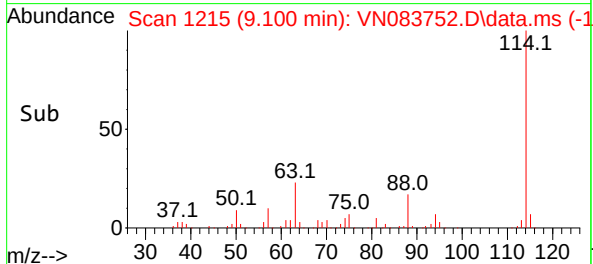
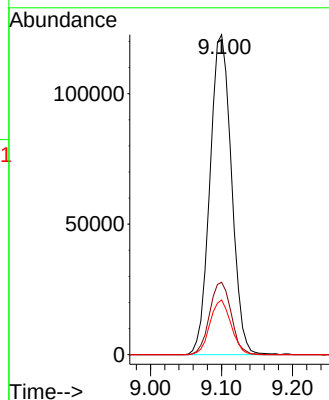
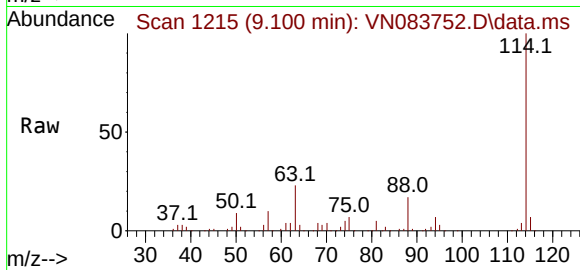
Tgt Ion:114 Resp: 258209

Ion Ratio Lower Upper

114 100

63 22.7 0.0 43.4

88 17.1 0.0 32.6



#35

Dibromofluoromethane

Concen: 48.021 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083752.D

Acq: 10 Sep 2024 14:34

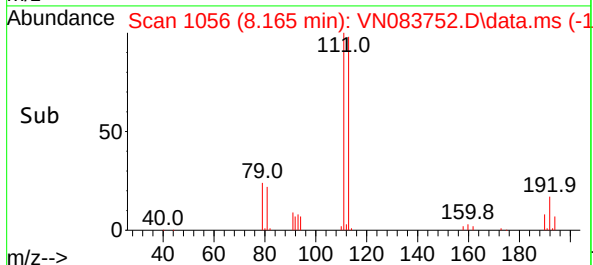
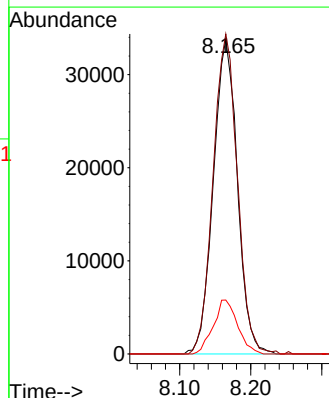
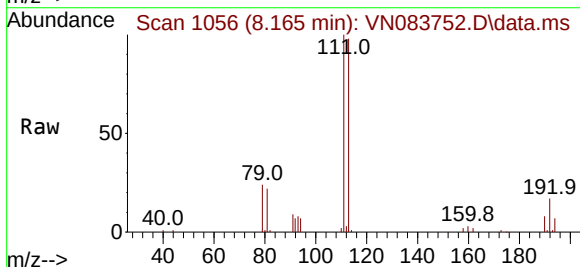
Tgt Ion:113 Resp: 79380

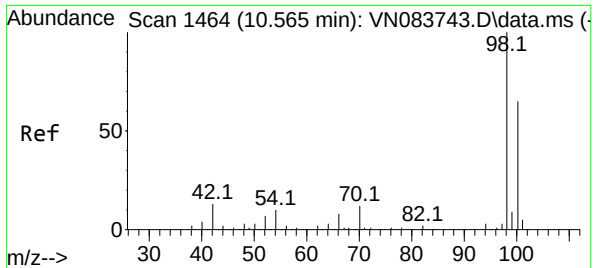
Ion Ratio Lower Upper

113 100

111 102.7 82.6 124.0

192 17.3 14.3 21.5

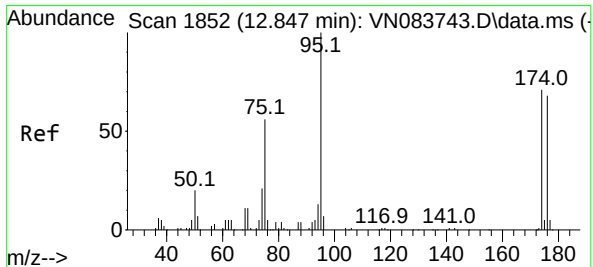
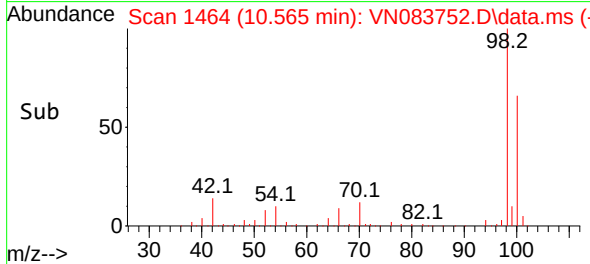
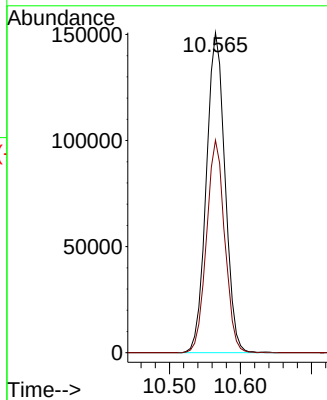
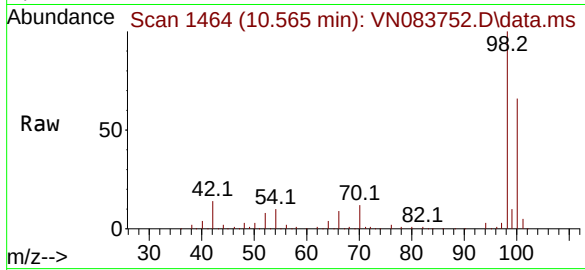




#50
Toluene-d8
Concen: 48.145 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083752.D
Acq: 10 Sep 2024 14:34

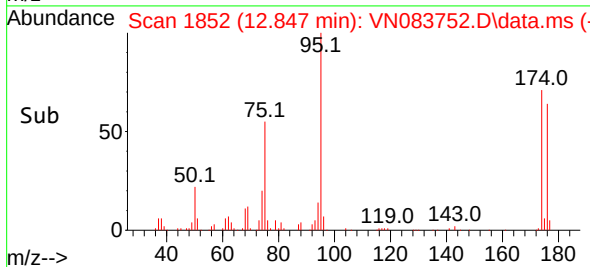
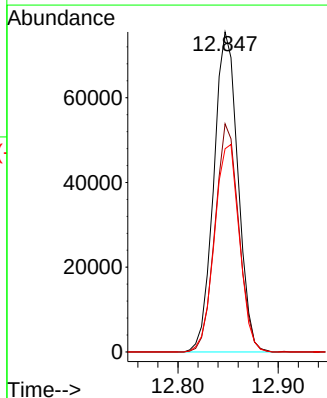
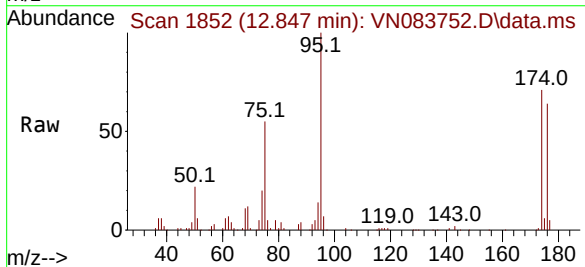
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBL01

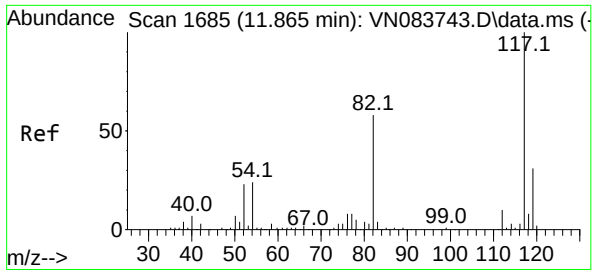
Tgt Ion: 98 Resp: 275129
Ion Ratio Lower Upper
98 100
100 64.9 52.0 78.0



#62
4-Bromofluorobenzene
Concen: 53.481 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083752.D
Acq: 10 Sep 2024 14:34

Tgt Ion: 95 Resp: 126091
Ion Ratio Lower Upper
95 100
174 70.2 0.0 139.8
176 67.0 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083752.D

Acq: 10 Sep 2024 14:34

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBL01

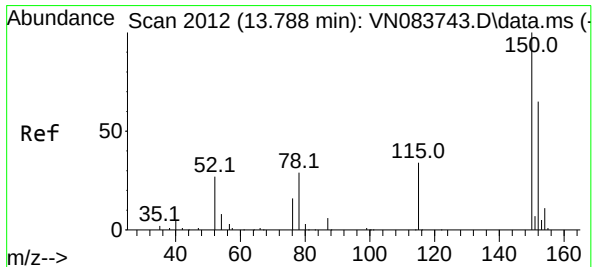
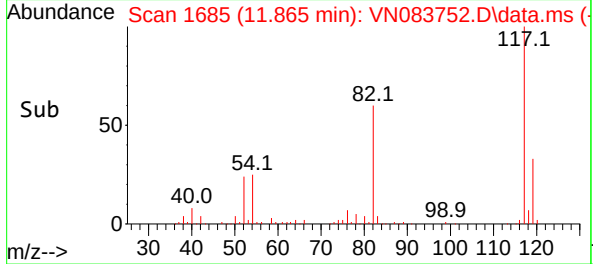
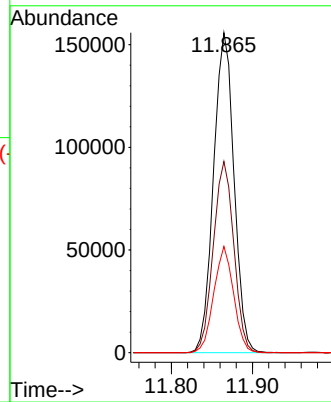
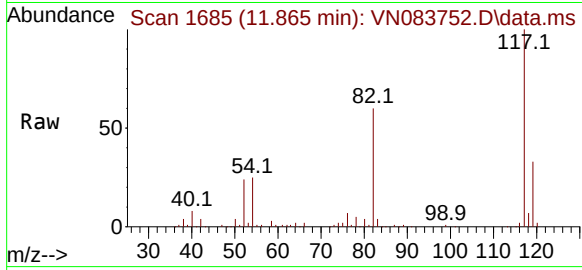
Tgt Ion:117 Resp: 273442

Ion Ratio Lower Upper

117 100

82 59.7 47.4 71.0

119 33.2 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN083752.D

Acq: 10 Sep 2024 14:34

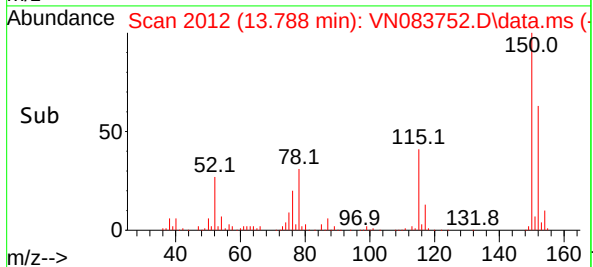
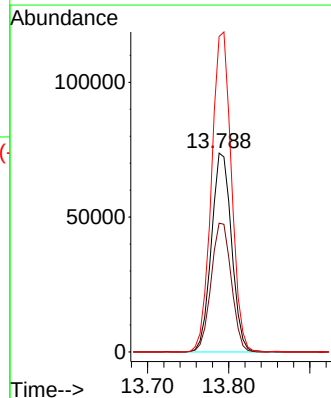
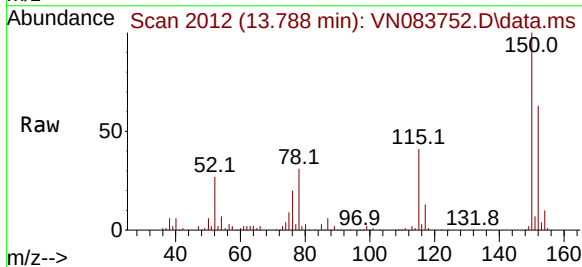
Tgt Ion:152 Resp: 126892

Ion Ratio Lower Upper

152 100

115 65.1 32.2 96.6

150 159.0 0.0 348.6



Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Waste Water PT		Date Received:	
Client Sample ID:	VN0911WBL01		SDG No.:	P3845
Lab Sample ID:	VN0911WBL01		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:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083793.D	1		09/11/24 13:57	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
141-78-6	Ethyl Acetate	0.38	U	0.38	1.00	ug/L
108-21-4	Isopropyl Acetate	0.29	U	0.29	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
109-99-9	Tetrahydrofuran	1.20	U	1.20	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-65-0	Tert butyl alcohol	5.60	U	5.60	25.0	ug/L
60-29-7	Diethyl Ether	0.20	U	0.20	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
107-02-8	Acrolein	6.70	U	6.70	25.0	ug/L
107-13-1	Acrylonitrile	0.90	U	0.90	5.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
108-05-4	Vinyl Acetate	0.71	U	0.71	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
594-20-7	2,2-Dichloropropane	0.31	U	0.31	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L

Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	
Project:	NJ Waste Water PT			Date Received:	
Client Sample ID:	VN0911WBL01			SDG No.:	P3845
Lab Sample ID:	VN0911WBL01			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:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083793.D	1		09/11/24 13:57	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
563-58-6	1,1-Dichloropropene	0.18	U	0.18	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
74-95-3	Dibromomethane	0.23	U	0.23	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
142-28-9	1,3-Dichloropropane	0.17	U	0.17	1.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	1.80	U	1.80	5.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.00	ug/L
67-72-1	Hexachloroethane	0.29	U	0.29	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0911WBL01	SDG No.:	P3845
Lab Sample ID:	VN0911WBL01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083793.D	1		09/11/24 13:57	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
96-18-4	1,2,3-Trichloropropane	0.39	U	0.39	1.00	ug/L
108-86-1	Bromobenzene	0.26	U	0.26	1.00	ug/L
103-65-1	n-propylbenzene	0.14	U	0.14	1.00	ug/L
95-49-8	2-Chlorotoluene	0.16	U	0.16	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.18	U	0.18	1.00	ug/L
106-43-4	4-Chlorotoluene	0.18	U	0.18	1.00	ug/L
98-06-6	tert-Butylbenzene	0.17	U	0.17	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.18	U	0.18	1.00	ug/L
135-98-8	sec-Butylbenzene	0.17	U	0.17	1.00	ug/L
99-87-6	p-Isopropyltoluene	0.15	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
104-51-8	n-Butylbenzene	0.22	U	0.22	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-68-3	Hexachlorobutadiene	0.31	U	0.31	1.00	ug/L
91-20-3	Naphthalene	0.59	U	0.59	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
628-63-7	N-amyl acetate	0.23	U	0.23	1.00	ug/L
74-88-4	Methyl Iodide	1.20	U	1.20	5.00	ug/L
107-05-1	Allyl chloride	0.24	U	0.24	1.00	ug/L
126-98-7	Methacrylonitrile	0.31	U	0.31	1.00	ug/L
97-63-2	Ethyl methacrylate	0.16	U	0.16	1.00	ug/L
108-20-3	Diisopropyl ether	0.16	U	0.16	1.00	ug/L
123-91-1	1,4-Dioxane	6.50	U	6.50	100	ug/L
80-62-6	Methyl methacrylate	0.32	U	0.32	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.7		74 - 125	111%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	51.2		86 - 113	102%	SPK: 50

Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	
Project:	NJ Waste Water PT			Date Received:	
Client Sample ID:	VN0911WBL01			SDG No.:	P3845
Lab Sample ID:	VN0911WBL01			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:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083793.D	1		09/11/24 13:57	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
460-00-4	4-Bromofluorobenzene	57.1		77 - 121	114%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	117000	8.224			
540-36-3	1,4-Difluorobenzene	246000	9.1			
3114-55-4	Chlorobenzene-d5	271000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	129000	13.788			

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_N\Data\VN091124\
 Data File : VN083793.D
 Acq On : 11 Sep 2024 13:57
 Operator : JC\MD
 Sample : VN0911WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0911WBL01

Quant Time: Sep 12 02:07:46 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 15:18:56 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	117065	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	246226	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	271430	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	129037	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	98351	55.717	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	111.440%
35) Dibromofluoromethane	8.165	113	77865	49.397	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.800%
50) Toluene-d8	10.565	98	278740	51.151	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.300%
62) 4-Bromofluorobenzene	12.847	95	128273	57.054	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	114.100%

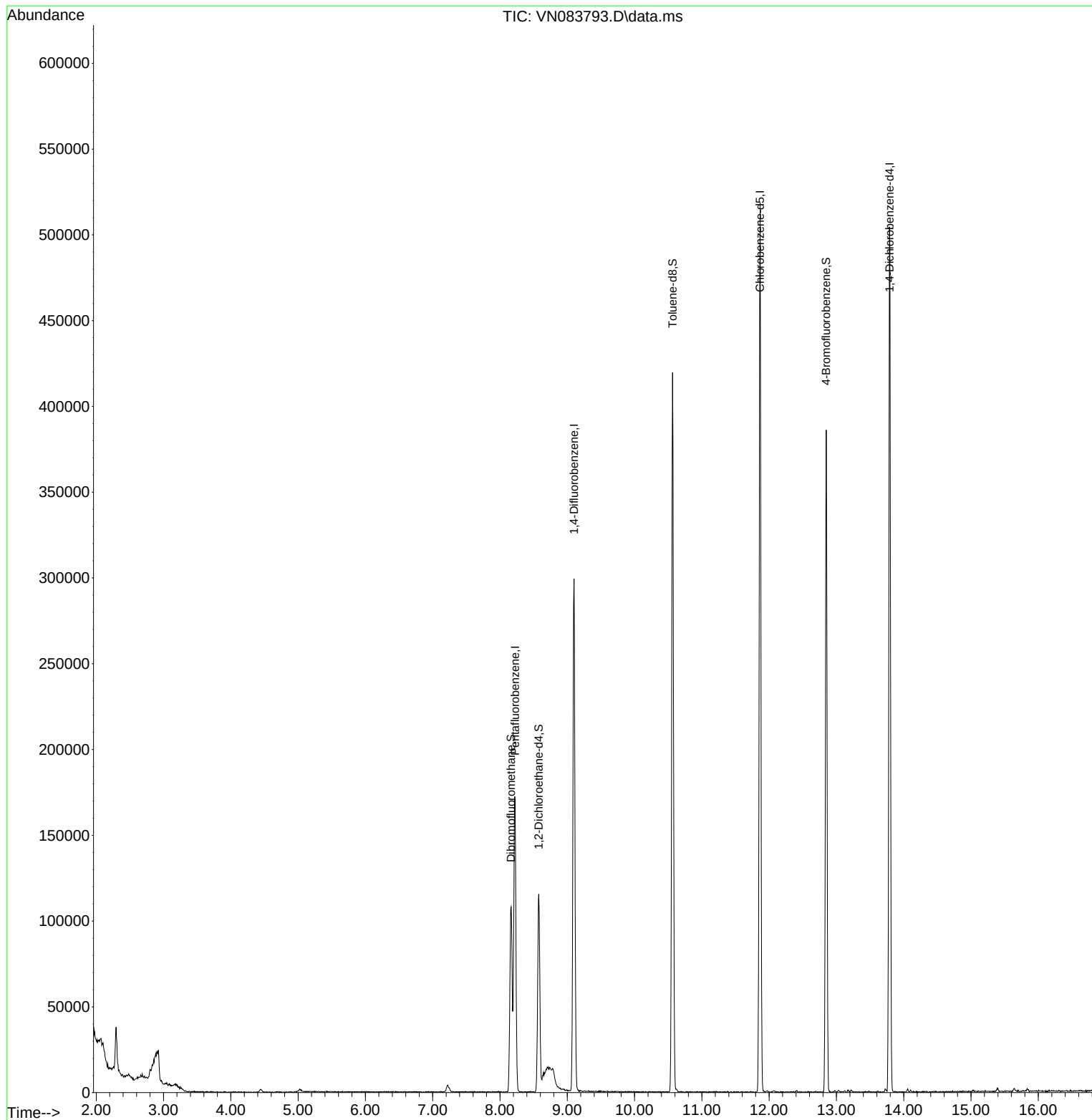
Target Compounds	Qvalue

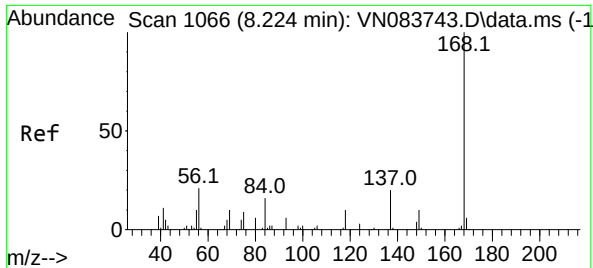
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083793.D
Acq On : 11 Sep 2024 13:57
Operator : JC\MD
Sample : VN0911WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBL01

Quant Time: Sep 12 02:07:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VN083793.D

Acq: 11 Sep 2024 13:57

Instrument :

MSVOA_N

ClientSampleId :

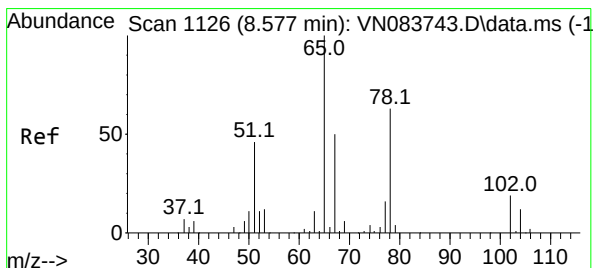
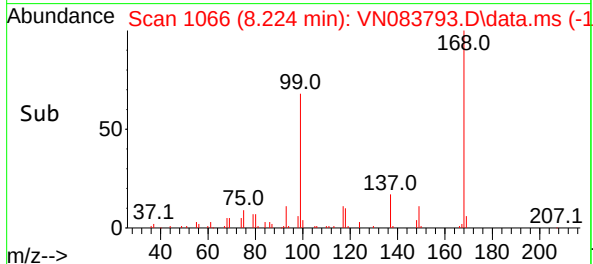
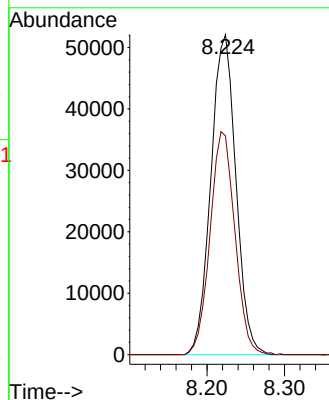
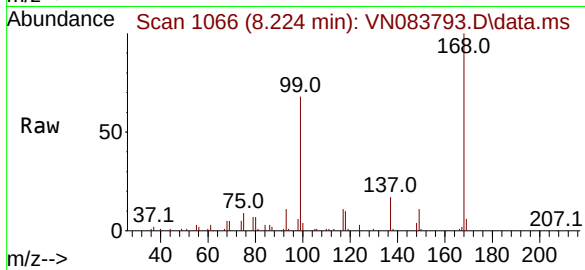
VN0911WBL01

Tgt Ion:168 Resp: 117065

Ion Ratio Lower Upper

168 100

99 68.4 54.2 81.2



#33

1,2-Dichloroethane-d4

Concen: 55.717 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN083793.D

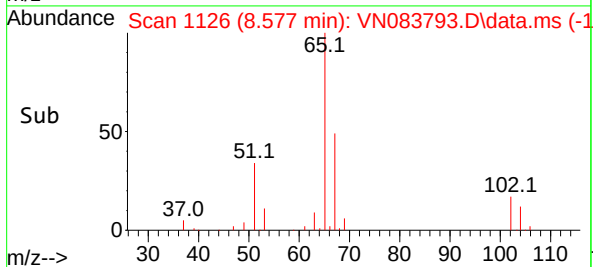
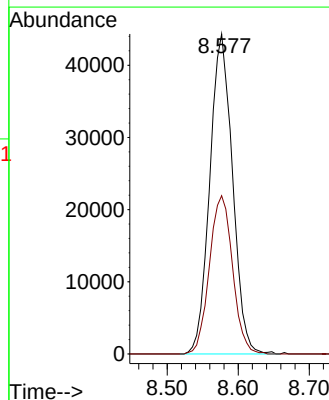
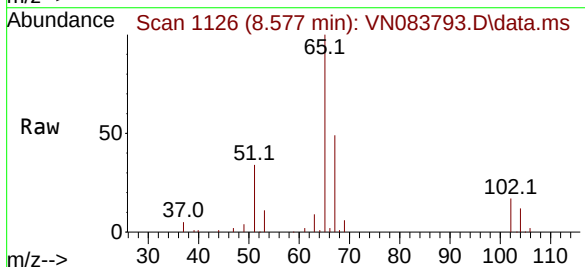
Acq: 11 Sep 2024 13:57

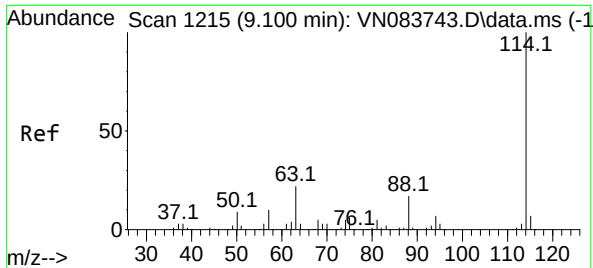
Tgt Ion: 65 Resp: 98351

Ion Ratio Lower Upper

65 100

67 50.4 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083793.D

Acq: 11 Sep 2024 13:57

Instrument :

MSVOA_N

ClientSampleId :

VN0911WBL01

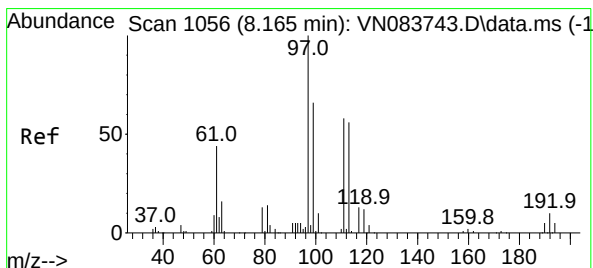
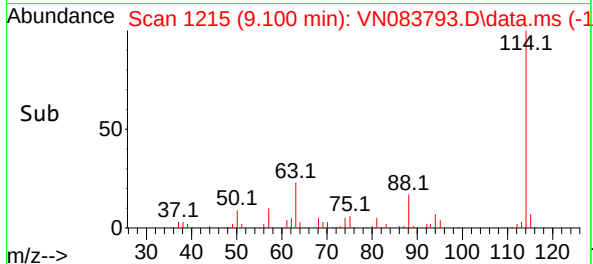
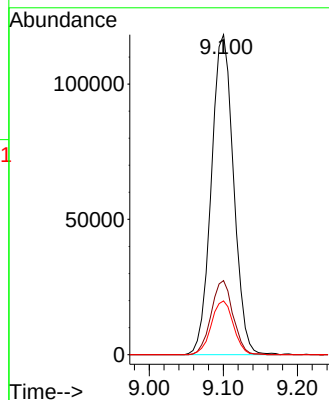
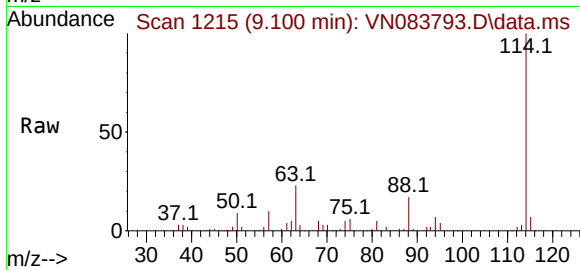
Tgt Ion:114 Resp: 246226

Ion Ratio Lower Upper

114 100

63 23.1 0.0 43.4

88 16.8 0.0 32.6



#35

Dibromofluoromethane

Concen: 49.397 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083793.D

Acq: 11 Sep 2024 13:57

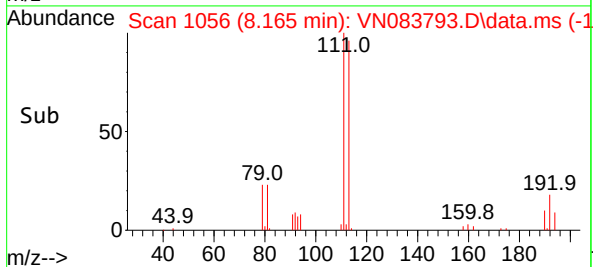
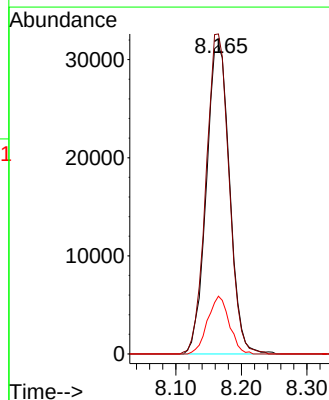
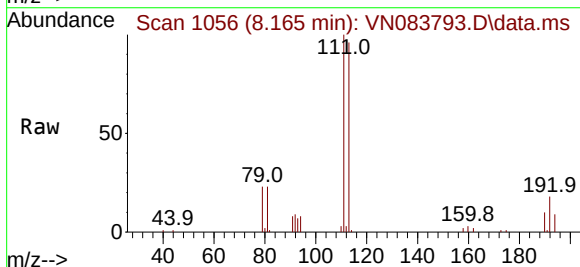
Tgt Ion:113 Resp: 77865

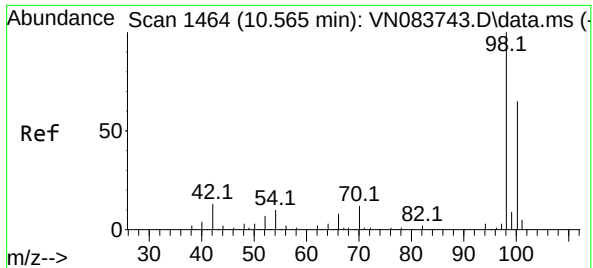
Ion Ratio Lower Upper

113 100

111 102.0 82.6 124.0

192 17.3 14.3 21.5

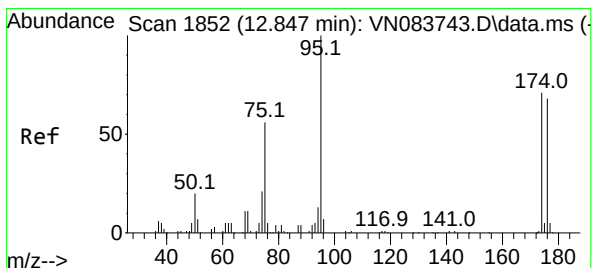
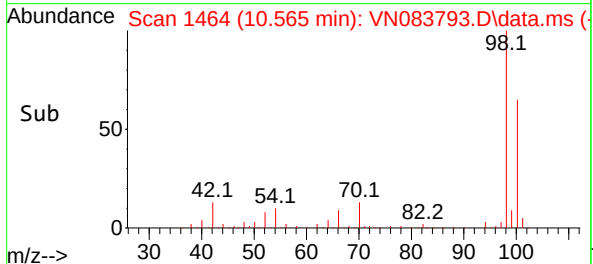
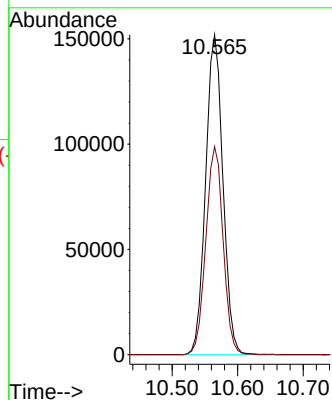
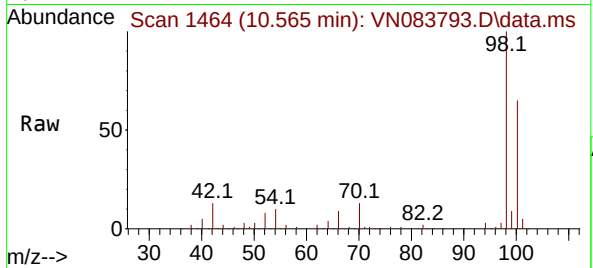




#50
Toluene-d8
Concen: 51.151 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083793.D
Acq: 11 Sep 2024 13:57

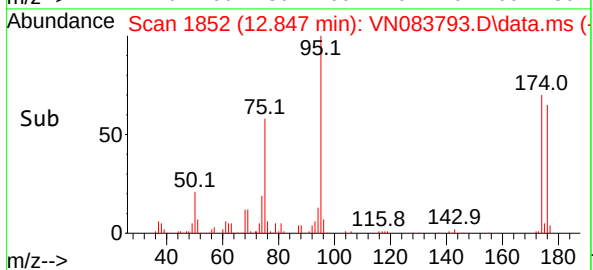
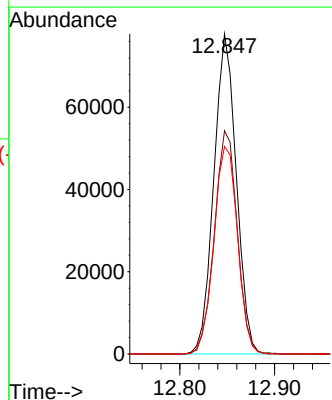
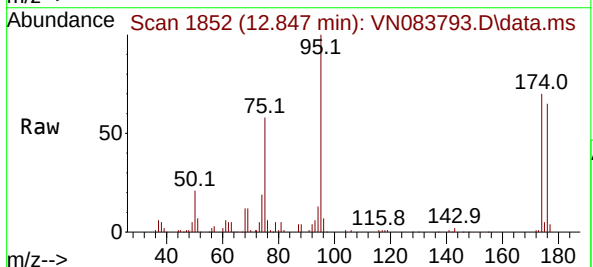
Instrument :
MSVOA_N
ClientSampleId :
VN0911WBL01

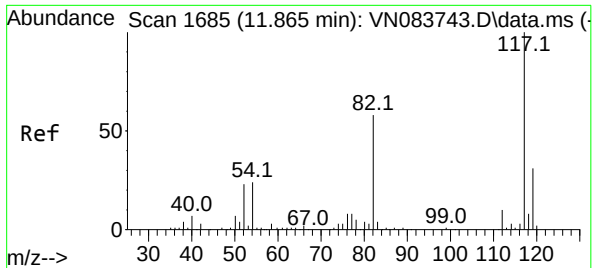
Tgt Ion: 98 Resp: 278740
Ion Ratio Lower Upper
98 100
100 65.0 52.0 78.0



#62
4-Bromofluorobenzene
Concen: 57.054 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083793.D
Acq: 11 Sep 2024 13:57

Tgt Ion: 95 Resp: 128273
Ion Ratio Lower Upper
95 100
174 71.1 0.0 139.8
176 68.3 0.0 131.4

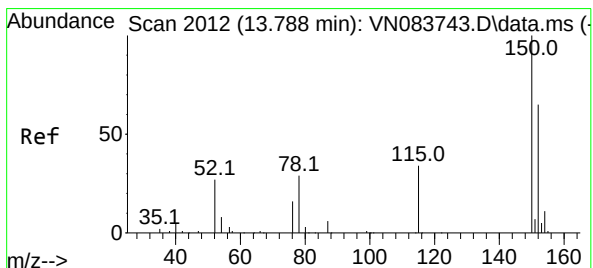
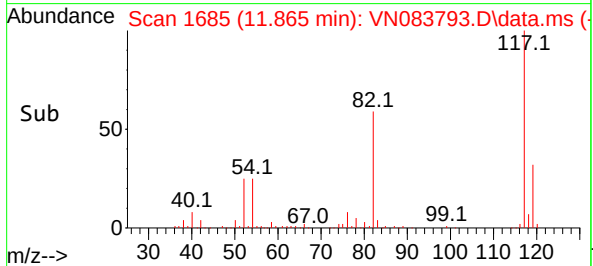
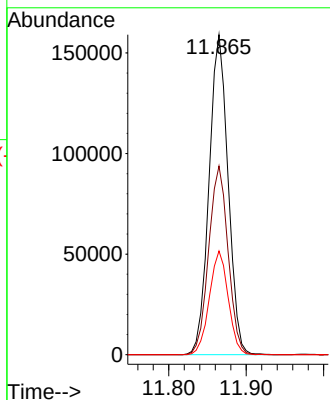
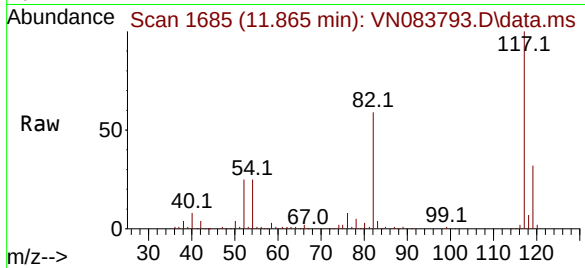




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083793.D
Acq: 11 Sep 2024 13:57

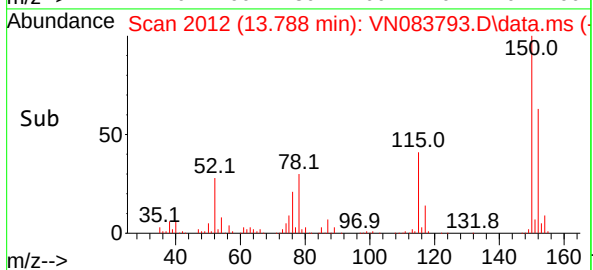
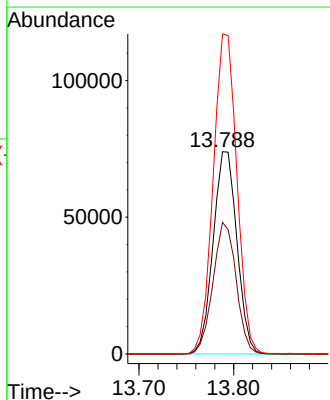
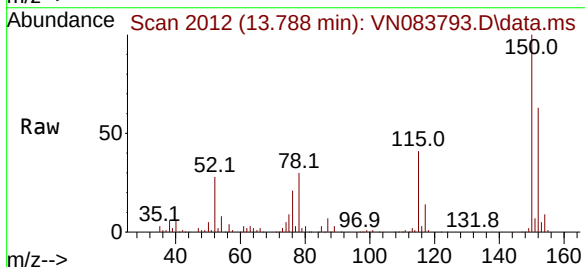
Instrument :
MSVOA_N
ClientSampleId :
VN0911WBL01

Tgt Ion:117 Resp: 271430
Ion Ratio Lower Upper
117 100
82 59.0 47.4 71.0
119 32.4 26.3 39.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN083793.D
Acq: 11 Sep 2024 13:57

Tgt Ion:152 Resp: 129037
Ion Ratio Lower Upper
152 100
115 63.4 32.2 96.6
150 157.6 0.0 348.6



Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0910WBS01	SDG No.:	P3845
Lab Sample ID:	VN0910WBS01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083753.D	1		09/10/24 15:34	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.7		0.21	1.00	ug/L
74-87-3	Chloromethane	18.1		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	17.5		0.34	1.00	ug/L
141-78-6	Ethyl Acetate	18.7		0.38	1.00	ug/L
108-21-4	Isopropyl Acetate	18.1		0.29	1.00	ug/L
74-83-9	Bromomethane	17.3		1.40	5.00	ug/L
75-00-3	Chloroethane	16.0		0.56	1.00	ug/L
109-99-9	Tetrahydrofuran	92.6		1.20	5.00	ug/L
75-69-4	Trichlorofluoromethane	17.6		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	17.8		0.25	1.00	ug/L
75-65-0	Tert butyl alcohol	93.1		5.60	25.0	ug/L
60-29-7	Diethyl Ether	17.2		0.20	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.6		0.26	1.00	ug/L
107-02-8	Acrolein	100		6.70	25.0	ug/L
107-13-1	Acrylonitrile	90.8		0.90	5.00	ug/L
67-64-1	Acetone	96.0		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	16.6		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.9		0.16	1.00	ug/L
79-20-9	Methyl Acetate	18.5		0.60	1.00	ug/L
75-09-2	Methylene Chloride	17.9		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	16.6		0.25	1.00	ug/L
108-05-4	Vinyl Acetate	90.9		0.71	5.00	ug/L
75-34-3	1,1-Dichloroethane	17.3		0.23	1.00	ug/L
110-82-7	Cyclohexane	16.6		1.60	5.00	ug/L
78-93-3	2-Butanone	93.6		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	17.7		0.25	1.00	ug/L
594-20-7	2,2-Dichloropropane	18.2		0.31	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.7		0.25	1.00	ug/L
74-97-5	Bromochloromethane	22.3		0.18	1.00	ug/L
67-66-3	Chloroform	17.6		0.26	1.00	ug/L

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Waste Water PT		Date Received:	
Client Sample ID:	VN0910WBS01		SDG No.:	P3845
Lab Sample ID:	VN0910WBS01		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:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083753.D	1		09/10/24 15:34	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
71-55-6	1,1,1-Trichloroethane	17.9		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	17.8		0.19	1.00	ug/L
563-58-6	1,1-Dichloropropene	16.7		0.18	1.00	ug/L
71-43-2	Benzene	17.5		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.1		0.24	1.00	ug/L
79-01-6	Trichloroethene	17.1		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	17.6		0.19	1.00	ug/L
74-95-3	Dibromomethane	18.1		0.23	1.00	ug/L
75-27-4	Bromodichloromethane	18.1		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	94.3		0.75	5.00	ug/L
108-88-3	Toluene	18.2		0.18	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	17.5		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	17.4		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	17.4		0.21	1.00	ug/L
142-28-9	1,3-Dichloropropane	18.3		0.17	1.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	92.5		1.80	5.00	ug/L
591-78-6	2-Hexanone	96.6		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	18.5		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.3		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	16.9		0.25	1.00	ug/L
108-90-7	Chlorobenzene	16.9		0.13	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	17.0		0.21	1.00	ug/L
67-72-1	Hexachloroethane	17.5		0.29	1.00	ug/L
100-41-4	Ethyl Benzene	17.4		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	34.9		0.31	2.00	ug/L
1330-20-7	Total Xylenes	52.6		0.45	3.00	ug/L
95-47-6	o-Xylene	17.7		0.14	1.00	ug/L
100-42-5	Styrene	17.9		0.16	1.00	ug/L
75-25-2	Bromoform	18.5		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	17.4		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	17.4		0.27	1.00	ug/L

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0910WBS01	SDG No.:	P3845
Lab Sample ID:	VN0910WBS01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083753.D	1		09/10/24 15:34	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
96-18-4	1,2,3-Trichloropropane	17.6		0.39	1.00	ug/L
108-86-1	Bromobenzene	17.3		0.26	1.00	ug/L
103-65-1	n-propylbenzene	17.7		0.14	1.00	ug/L
95-49-8	2-Chlorotoluene	17.5		0.16	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	17.6		0.18	1.00	ug/L
106-43-4	4-Chlorotoluene	17.4		0.18	1.00	ug/L
98-06-6	tert-Butylbenzene	17.6		0.17	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	17.7		0.18	1.00	ug/L
135-98-8	sec-Butylbenzene	17.5		0.17	1.00	ug/L
99-87-6	p-Isopropyltoluene	17.5		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	16.3		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	16.0		0.27	1.00	ug/L
104-51-8	n-Butylbenzene	16.5		0.22	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	16.9		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.9		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.0		0.42	1.00	ug/L
87-68-3	Hexachlorobutadiene	16.4		0.31	1.00	ug/L
91-20-3	Naphthalene	17.1		0.59	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.1		0.51	1.00	ug/L
628-63-7	N-amyl acetate	18.0		0.23	1.00	ug/L
74-88-4	Methyl Iodide	17.6		1.20	5.00	ug/L
107-05-1	Allyl chloride	18.0		0.24	1.00	ug/L
126-98-7	Methacrylonitrile	18.3		0.31	1.00	ug/L
97-63-2	Ethyl methacrylate	18.8		0.16	1.00	ug/L
108-20-3	Diisopropyl ether	17.6		0.16	1.00	ug/L
123-91-1	1,4-Dioxane	370		6.50	100	ug/L
80-62-6	Methyl methacrylate	18.1		0.32	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.0		74 - 125	100%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	50.8		86 - 113	102%	SPK: 50

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0910WBS01	SDG No.:	P3845
Lab Sample ID:	VN0910WBS01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083753.D	1		09/10/24 15:34	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
460-00-4	4-Bromofluorobenzene	47.3		77 - 121	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	162000	8.224			
540-36-3	1,4-Difluorobenzene	281000	9.1			
3114-55-4	Chlorobenzene-d5	247000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	118000	13.794			

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_N\Data\VN091024\
 Data File : VN083753.D
 Acq On : 10 Sep 2024 15:34
 Operator : JC\MD
 Sample : VN0910WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0910WBS01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/11/2024
 Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 03:13:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 02:47:22 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	162351	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	280742	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	247046	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	118496	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	122332	49.972	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.940%
35) Dibromofluoromethane	8.165	113	86868	48.333	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.660%
50) Toluene-d8	10.565	98	315474	50.774	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.540%
62) 4-Bromofluorobenzene	12.847	95	121173	47.270	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	94.540%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	35252	18.697	ug/l	95
3) Chloromethane	2.359	50	37133	18.109	ug/l	94
4) Vinyl Chloride	2.512	62	36153	17.494	ug/l	98
5) Bromomethane	2.906	94	20477	17.257	ug/l	94
6) Chloroethane	3.077	64	23264	16.048	ug/l	99
7) Trichlorofluoromethane	3.471	101	61585	17.556	ug/l	100
8) Diethyl Ether	3.948	74	20270	17.238	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.348	101	33101	17.802	ug/l	97
10) Methyl Iodide	4.577	142	41582	17.584	ug/l	93
11) Tert butyl alcohol	5.530	59	30503	93.050	ug/l #	86
12) 1,1-Dichloroethene	4.324	96	30920	17.608	ug/l	97
13) Acrolein	4.177	56	32538	100.599	ug/l	98
14) Allyl chloride	5.018	41	56194	17.959	ug/l	98
15) Acrylonitrile	5.718	53	80905	90.752	ug/l	99
16) Acetone	4.430	43	94256	96.047	ug/l	96
17) Carbon Disulfide	4.700	76	81669	16.626	ug/l	100
18) Methyl Acetate	5.024	43	40141	18.461	ug/l	98
19) Methyl tert-butyl Ether	5.795	73	113425	17.850	ug/l	100
20) Methylene Chloride	5.271	84	35985	17.919	ug/l	99
21) trans-1,2-Dichloroethene	5.783	96	31149	16.552	ug/l	93
22) Diisopropyl ether	6.671	45	113491	17.620	ug/l	98
23) Vinyl Acetate	6.600	43	428958	90.941	ug/l	100
24) 1,1-Dichloroethane	6.559	63	64282	17.323	ug/l	99
25) 2-Butanone	7.483	43	120702	93.580	ug/l	100
26) 2,2-Dichloropropane	7.489	77	62359	18.248	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	39550	17.704	ug/l	97
28) Bromochloromethane	7.812	49	34873	22.316	ug/l	95
29) Tetrahydrofuran	7.836	42	70655	92.642	ug/l	99
30) Chloroform	7.959	83	69388	17.613	ug/l	87
31) Cyclohexane	8.253	56	58772	16.611	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	64940	17.927	ug/l	96
36) 1,1-Dichloropropene	8.365	75	45106	16.674	ug/l	99
37) Ethyl Acetate	7.559	43	45824	18.662	ug/l	99
38) Carbon Tetrachloride	8.359	117	54184	17.655	ug/l	97
39) Methylcyclohexane	9.600	83	54951	17.846	ug/l	98
40) Benzene	8.606	78	142807	17.539	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
 Data File : VN083753.D
 Acq On : 10 Sep 2024 15:34
 Operator : JC\MD
 Sample : VN0910WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0910WBS01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/11/2024
 Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 03:13:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 02:47:22 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	26586	18.306	ug/l	100
42) 1,2-Dichloroethane	8.665	62	55145	18.125	ug/l	99
43) Isopropyl Acetate	8.688	43	80526	18.097	ug/l	97
44) Trichloroethene	9.347	130	32252	17.105	ug/l	94
45) 1,2-Dichloropropane	9.618	63	34698	17.632	ug/l	98
46) Dibromomethane	9.706	93	25014	18.147	ug/l	99
47) Bromodichloromethane	9.888	83	54114	18.140	ug/l	94
48) Methyl methacrylate	9.682	41	38216	18.102	ug/l	98
49) 1,4-Dioxane	9.694	88	12847	369.924	ug/l #	100
51) 4-Methyl-2-Pentanone	10.447	43	228491	94.333	ug/l	98
52) Toluene	10.629	92	90757	18.223	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	52931	17.505	ug/l	96
54) cis-1,3-Dichloropropene	10.312	75	55186	17.375	ug/l	94
55) 1,1,2-Trichloroethane	11.018	97	32397	17.424	ug/l	96
56) Ethyl methacrylate	10.877	69	53795	18.805	ug/l	96
57) 1,3-Dichloropropane	11.165	76	58321	18.251	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	95385	92.540	ug/l	99
59) 2-Hexanone	11.194	43	173148	96.637	ug/l	97
60) Dibromochloromethane	11.353	129	38399	18.454	ug/l	98
61) 1,2-Dibromoethane	11.471	107	33841	18.250	ug/l	98
64) Tetrachloroethene	11.106	164	27769	16.902	ug/l	94
65) Chlorobenzene	11.894	112	92980	16.934	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	32451	17.048	ug/l	96
67) Ethyl Benzene	11.965	91	169809	17.409	ug/l	97
68) m/p-Xylenes	12.071	106	126551	34.947	ug/l	99
69) o-Xylene	12.400	106	62102	17.715	ug/l	99
70) Styrene	12.412	104	103019	17.906	ug/l	99
71) Bromoform	12.576	173	23674	18.457	ug/l #	98
73) Isopropylbenzene	12.694	105	159651	17.415	ug/l	99
74) N-amyl acetate	12.494	43	70315	17.977	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.941	83	46843	17.390	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	41144m	17.643	ug/l	
77) Bromobenzene	12.976	156	38245	17.331	ug/l	97
78) n-propylbenzene	13.035	91	188282	17.652	ug/l	97
79) 2-Chlorotoluene	13.123	91	118924	17.482	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	136142	17.614	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	15684	17.180	ug/l	91
82) 4-Chlorotoluene	13.223	91	118725	17.392	ug/l	100
83) tert-Butylbenzene	13.435	119	119007	17.599	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	137616	17.725	ug/l	97
85) sec-Butylbenzene	13.618	105	157073	17.515	ug/l	99
86) p-Isopropyltoluene	13.729	119	131799	17.532	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	67788	16.277	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	67622	16.035	ug/l	97
89) n-Butylbenzene	14.059	91	111665	16.544	ug/l	99
90) Hexachloroethane	14.335	117	26417	17.481	ug/l	94
91) 1,2-Dichlorobenzene	14.106	146	67739	16.853	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10143	18.890	ug/l	96
93) 1,2,4-Trichlorobenzene	15.388	180	34603	16.043	ug/l	99
94) Hexachlorobutadiene	15.500	225	15029	16.408	ug/l	99
95) Naphthalene	15.641	128	111998	17.068	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	33107	16.061	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083753.D
Acq On : 10 Sep 2024 15:34
Operator : JC\MD
Sample : VN0910WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 03:13:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration

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

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

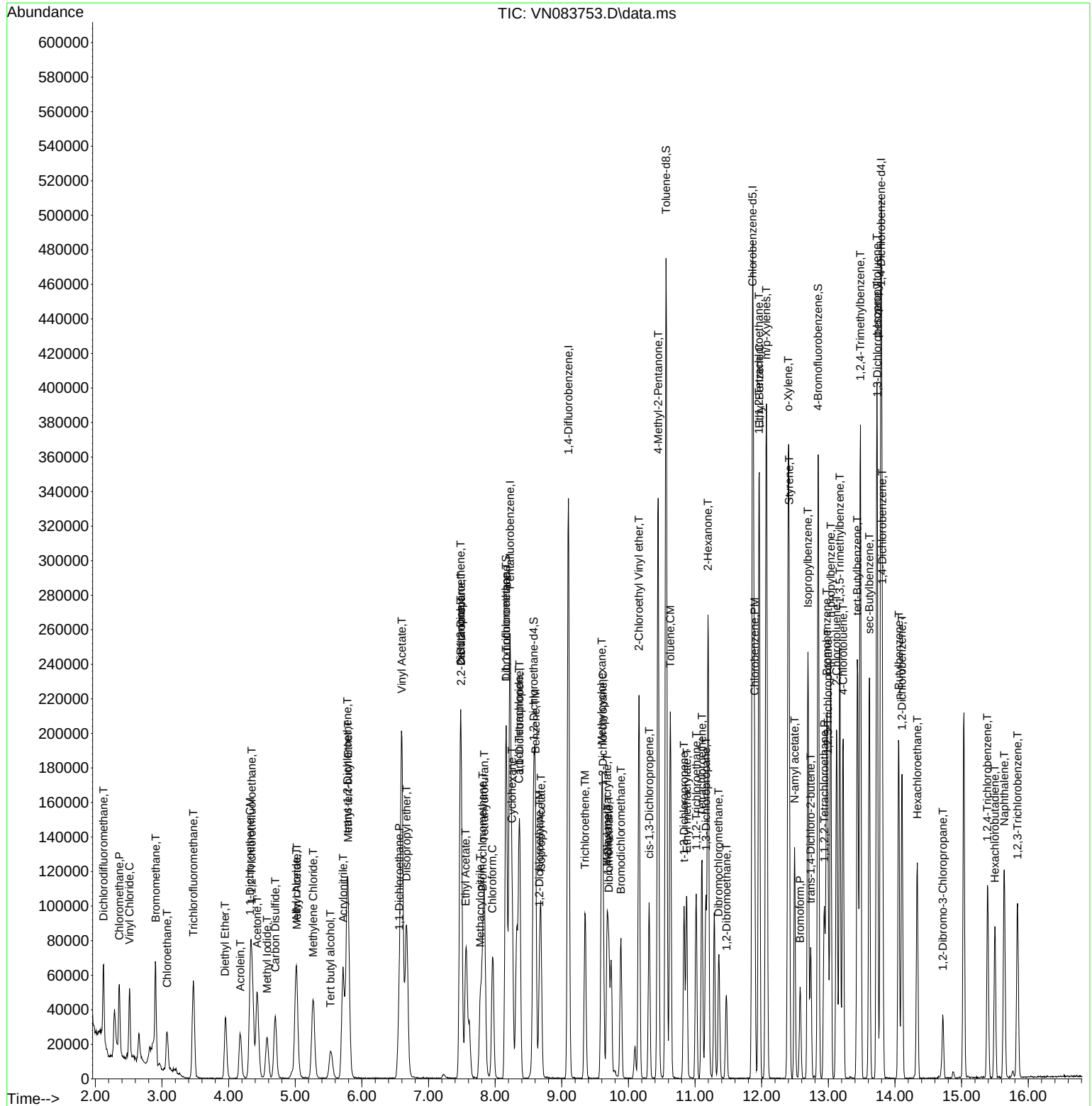
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083753.D
Acq On : 10 Sep 2024 15:34
Operator : JC\MD
Sample : VN0910WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

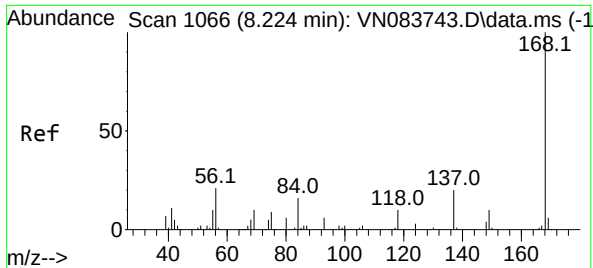
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Manual Integrations

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

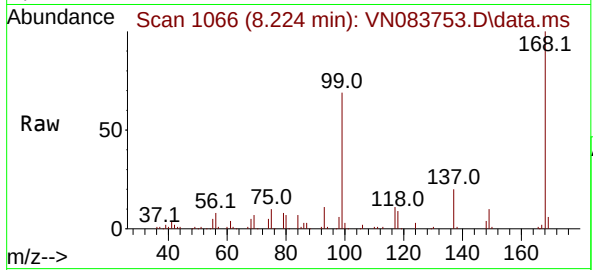
Quant Time: Sep 11 03:13:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

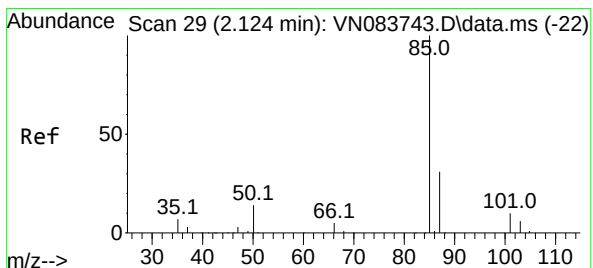
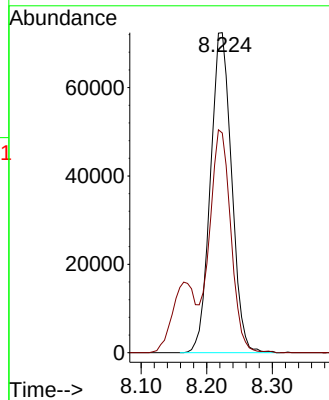
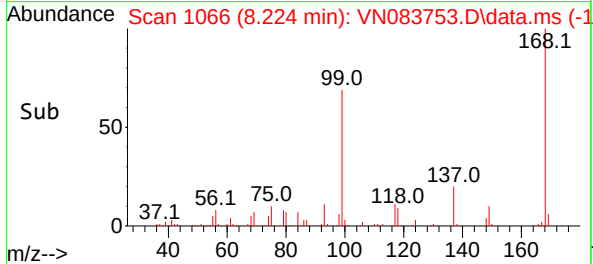
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01



Tgt Ion:168 Resp: 16235
Ion Ratio Lower Upper
168 100
99 68.6 54.2 81.2

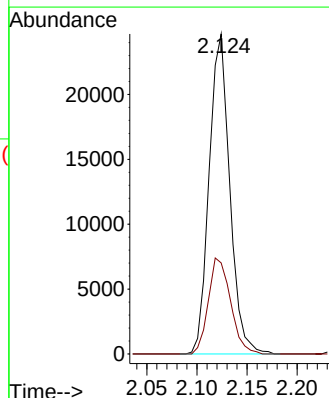
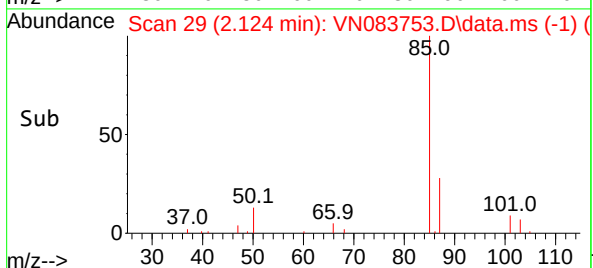
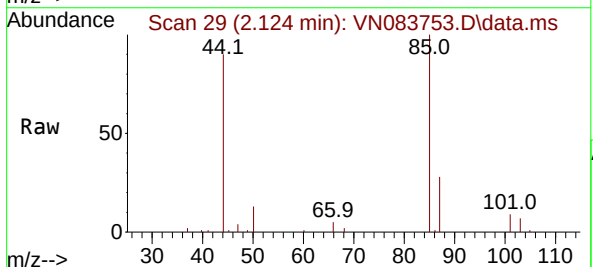
Manual Integrations
APPROVED

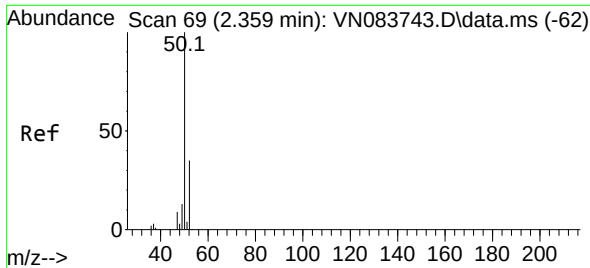
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#2
Dichlorodifluoromethane
Concen: 18.697 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 85 Resp: 35252
Ion Ratio Lower Upper
85 100
87 28.5 15.7 47.0





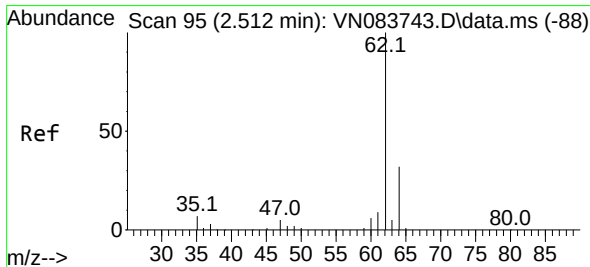
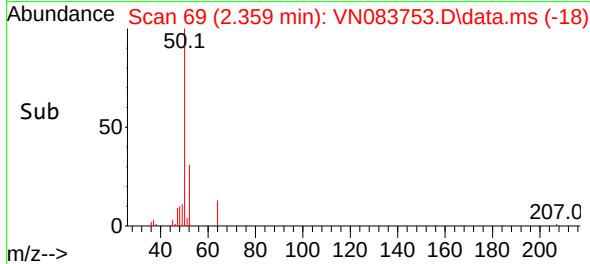
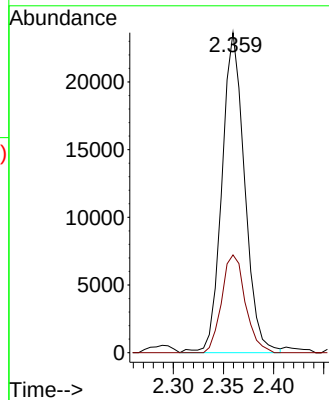
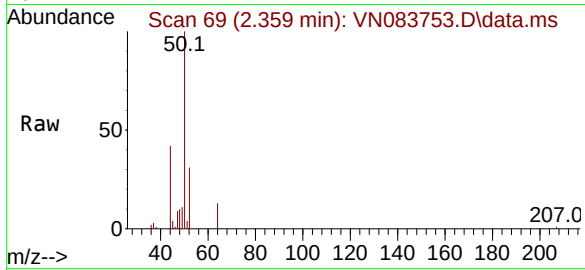
#3
Chloromethane
Concen: 18.109 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Tgt Ion: 50 Resp: 3713
Ion Ratio Lower Upper
50 100
52 30.6 27.2 40.8

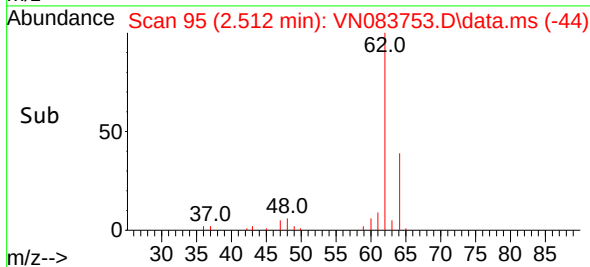
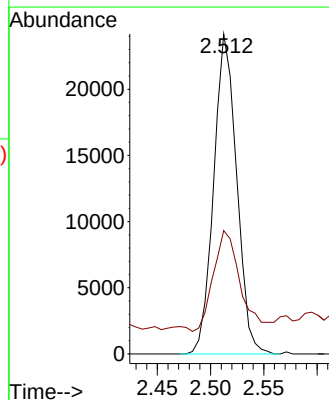
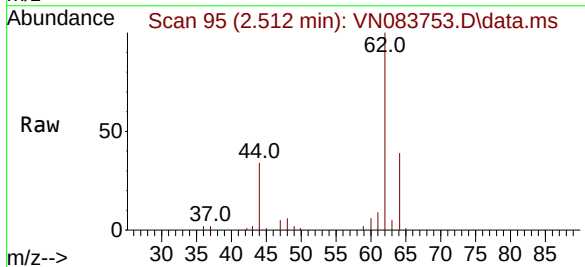
Manual Integrations
APPROVED

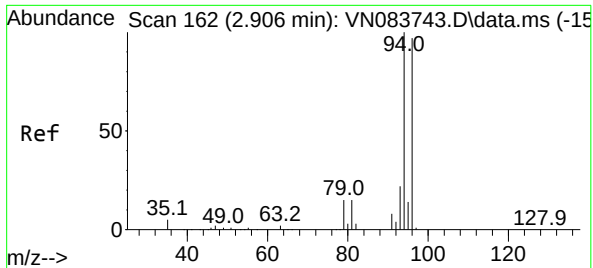
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#4
Vinyl Chloride
Concen: 17.494 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 62 Resp: 36153
Ion Ratio Lower Upper
62 100
64 30.0 24.7 37.1





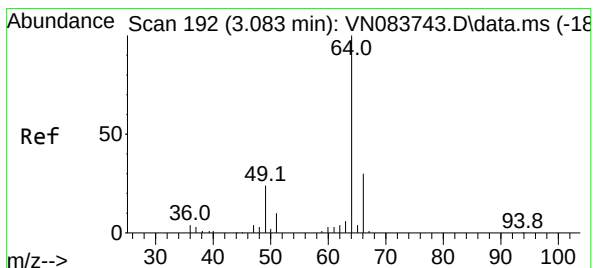
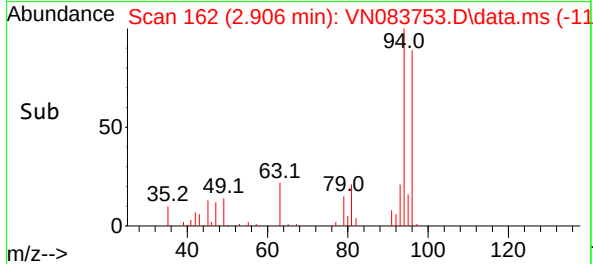
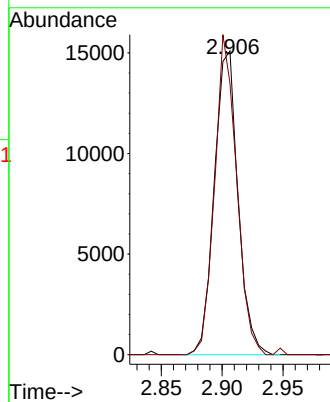
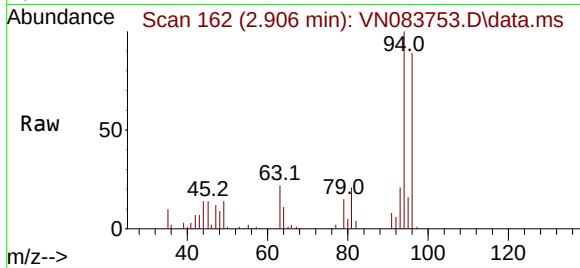
#5
Bromomethane
Concen: 17.257 ug/l
RT: 2.906 min Scan# 1047
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Tgt Ion: 94 Resp: 2047
Ion Ratio Lower Upper
94 100
96 89.3 76.0 114.0

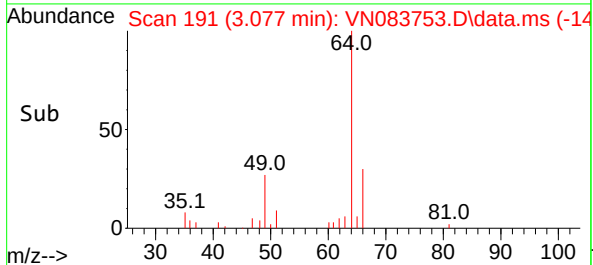
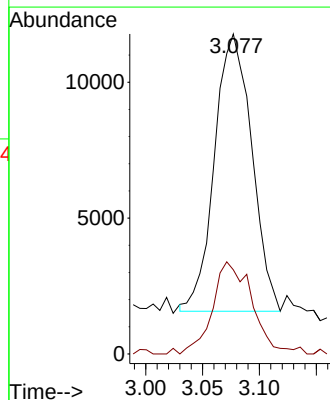
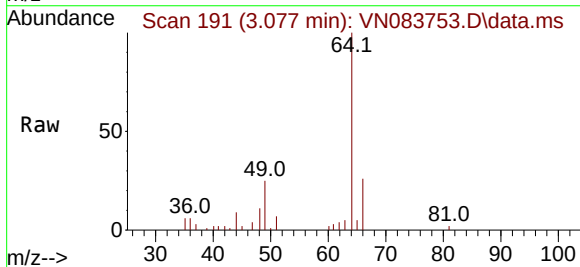
Manual Integrations
APPROVED

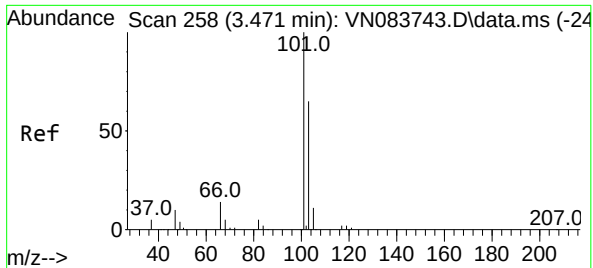
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#6
Chloroethane
Concen: 16.048 ug/l
RT: 3.077 min Scan# 191
Delta R.T. -0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

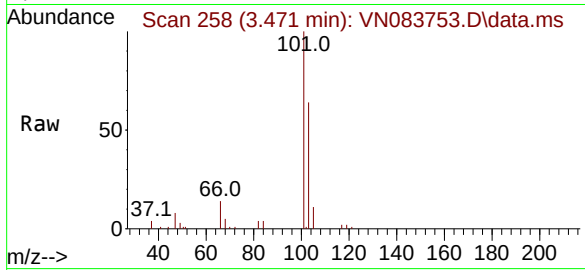
Tgt Ion: 64 Resp: 23264
Ion Ratio Lower Upper
64 100
66 30.4 23.9 35.9





#7
Trichlorofluoromethane
Concen: 17.556 ug/l
RT: 3.471 min Scan# 258
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

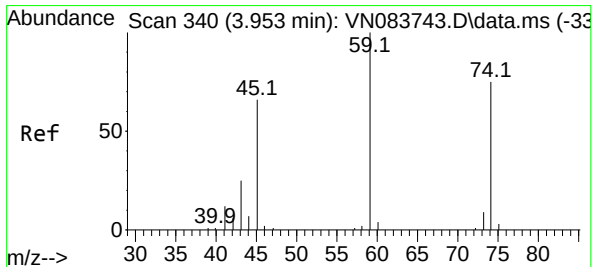
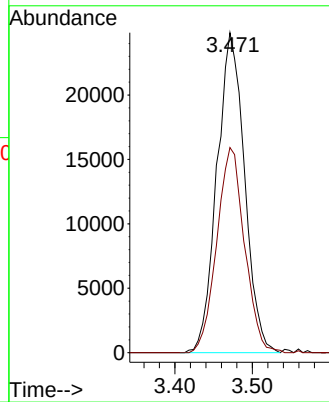
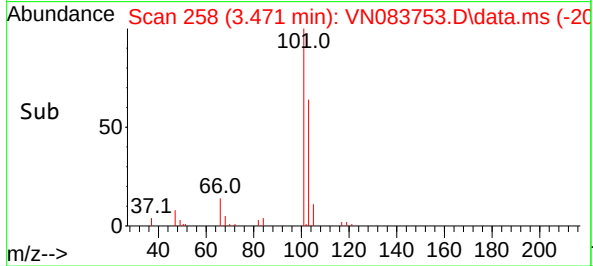
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01



Tgt Ion: 101 Resp: 6158
Ion Ratio Lower Upper
101 100
103 64.1 51.4 77.0

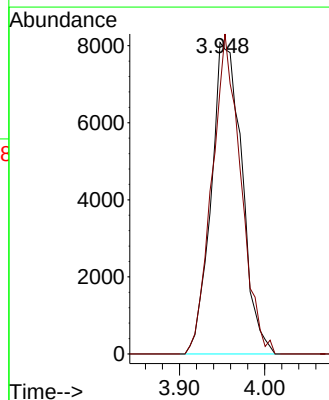
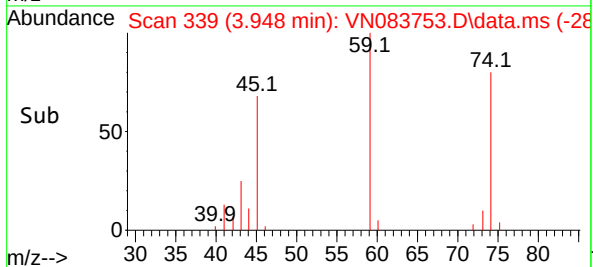
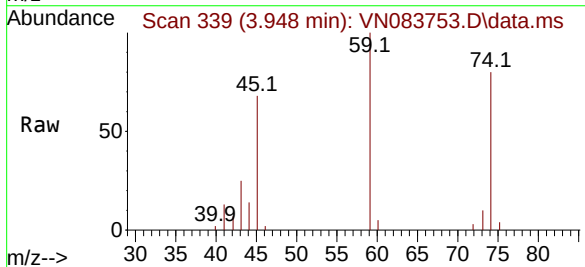
Manual Integrations
APPROVED

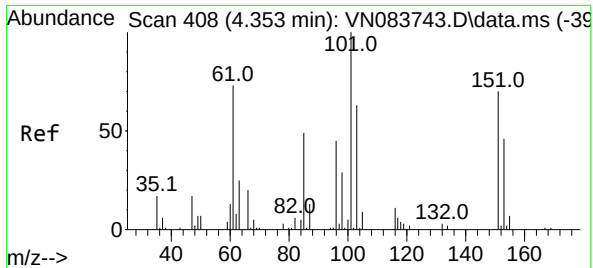
Reviewed By : John Carlone 09/11/2024
Supervised By : Semsettin Yesilyurt 09/11/2024



#8
Diethyl Ether
Concen: 17.238 ug/l
RT: 3.948 min Scan# 339
Delta R.T. -0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 74 Resp: 20270
Ion Ratio Lower Upper
74 100
45 96.4 46.7 140.1





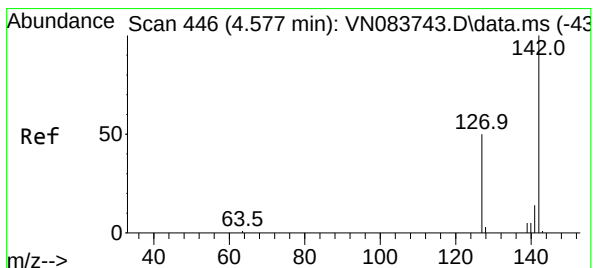
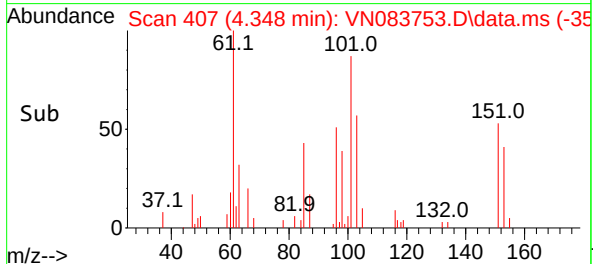
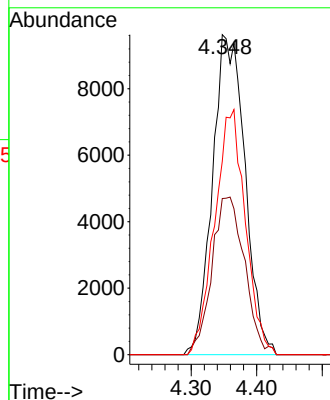
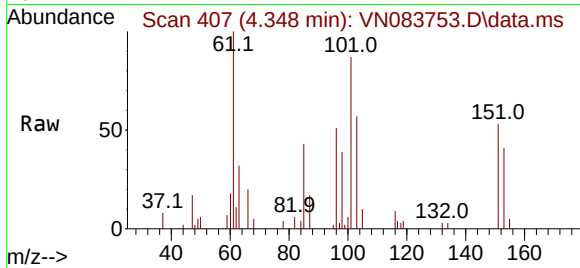
#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.802 ug/l
RT: 4.348 min Scan# 407
Delta R.T. -0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Tgt Ion:101 Resp: 3310
Ion Ratio Lower Upper
101 100
85 49.6 36.2 54.4
151 72.3 57.7 86.5

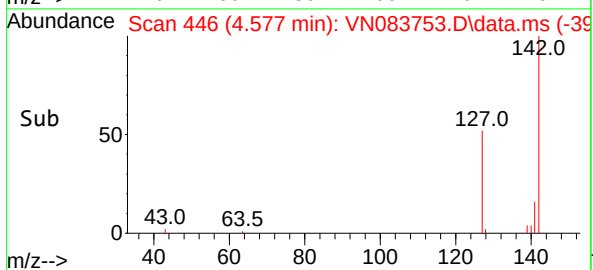
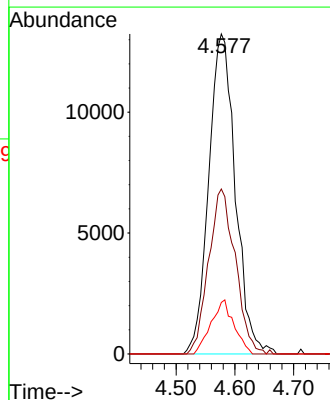
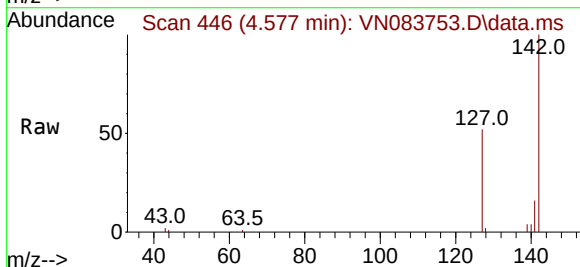
Manual Integrations
APPROVED

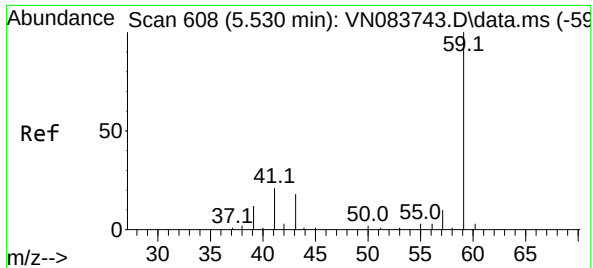
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#10
Methyl Iodide
Concen: 17.584 ug/l
RT: 4.577 min Scan# 446
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:142 Resp: 41582
Ion Ratio Lower Upper
142 100
127 51.6 37.5 56.3
141 16.1 11.0 16.4





#11

Tert butyl alcohol

Concen: 93.050 ug/l

RT: 5.530 min Scan# 608

Delta R.T. 0.000 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBS01

Tgt Ion: 59 Resp: 3050

Ion Ratio Lower Upper

59 100

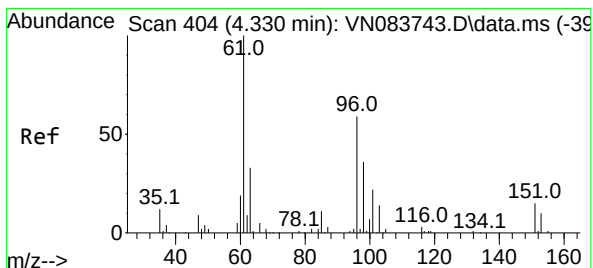
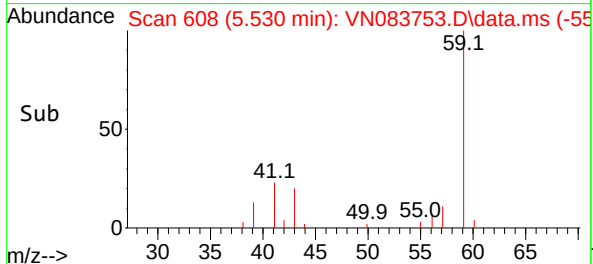
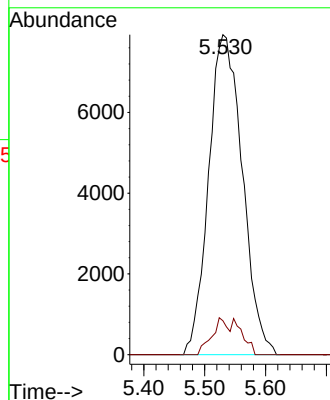
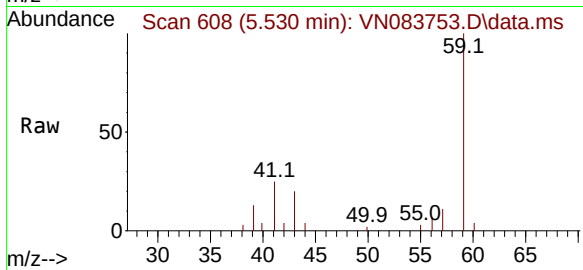
57 5.6 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#12

1,1-Dichloroethene

Concen: 17.608 ug/l

RT: 4.324 min Scan# 403

Delta R.T. -0.006 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

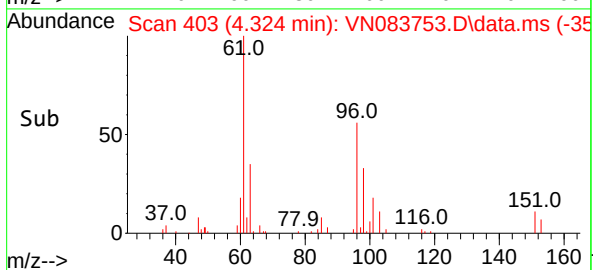
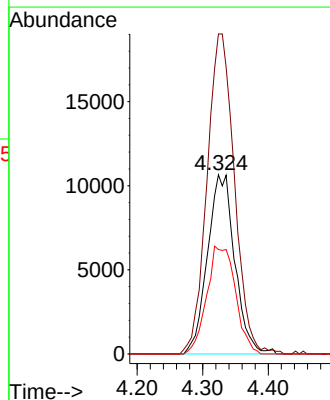
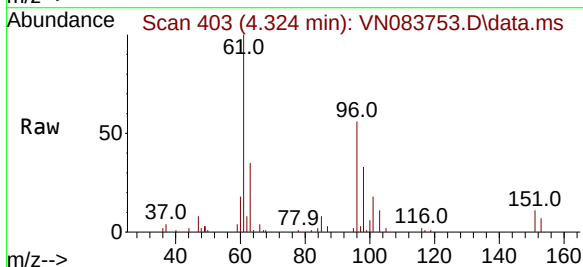
Tgt Ion: 96 Resp: 30920

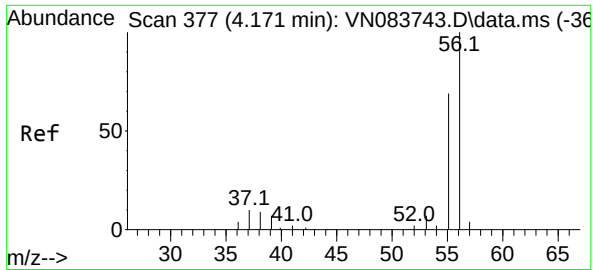
Ion Ratio Lower Upper

96 100

61 178.5 143.4 215.0

98 58.3 52.7 79.1





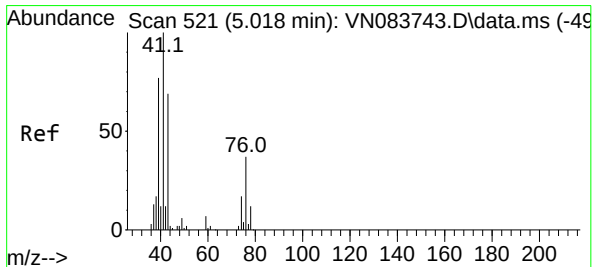
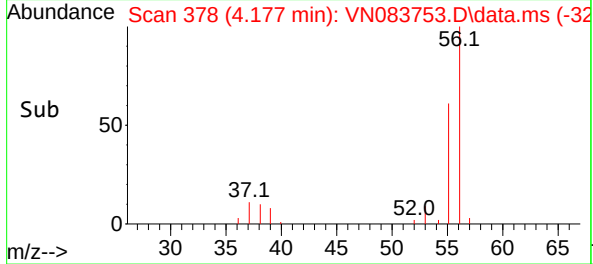
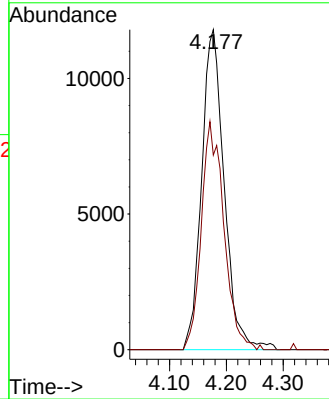
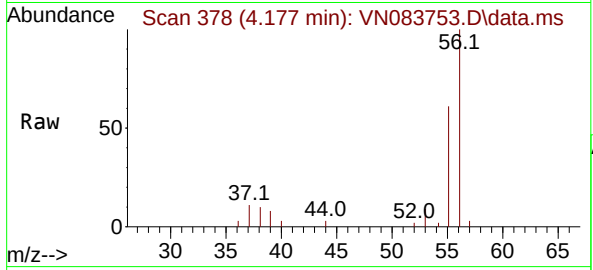
#13
Acrolein
Concen: 100.599 ug/l
RT: 4.177 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Tgt Ion: 56 Resp: 32538
Ion Ratio Lower Upper
56 100
55 71.4 58.2 87.2

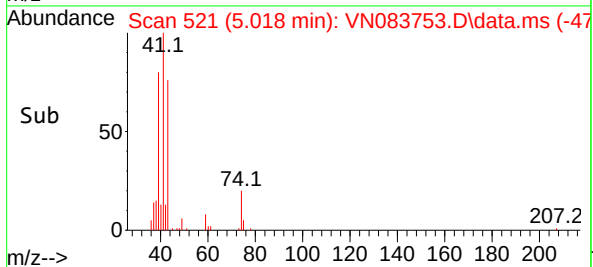
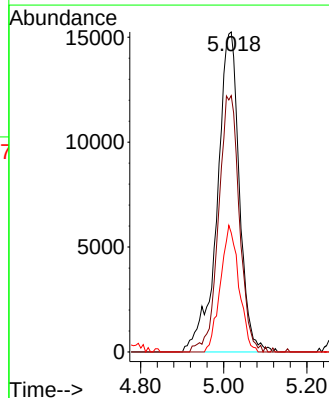
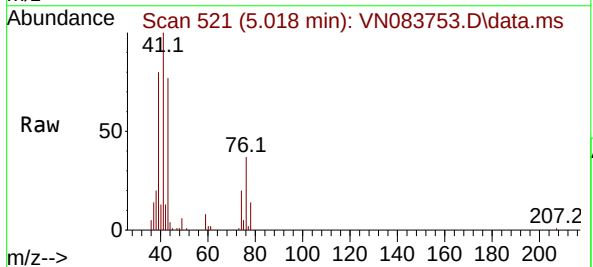
Manual Integrations
APPROVED

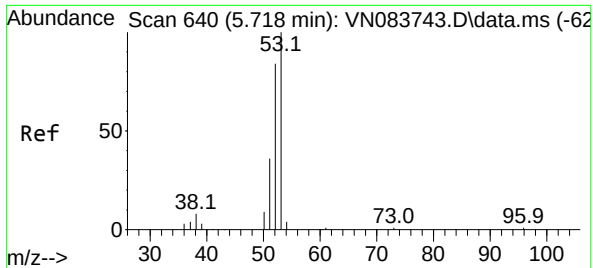
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#14
Allyl chloride
Concen: 17.959 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 41 Resp: 56194
Ion Ratio Lower Upper
41 100
39 75.7 59.3 88.9
76 33.2 27.7 41.5





#15

Acrylonitrile

Concen: 90.752 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBS01

Tgt Ion: 53 Resp: 8090

Ion Ratio Lower Upper

53 100

52 83.6 66.1 99.1

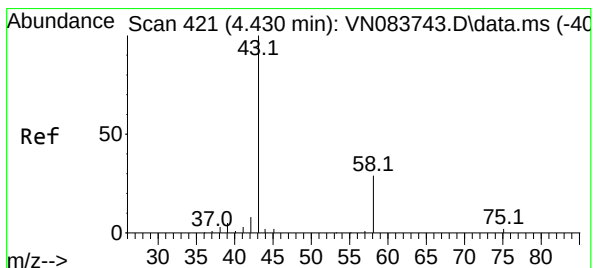
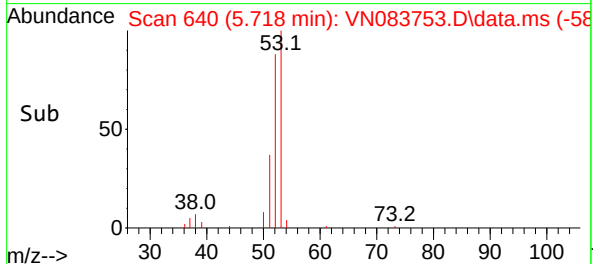
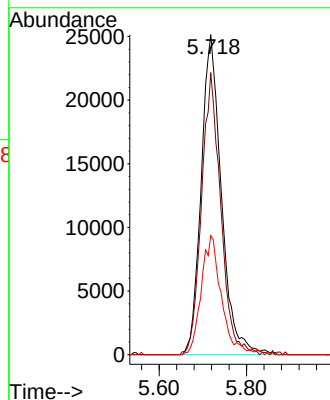
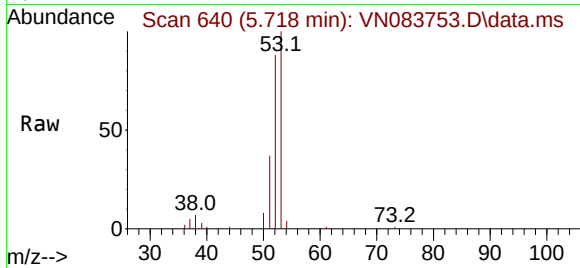
51 36.9 29.6 44.4

Manual Integrations

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Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#16

Acetone

Concen: 96.047 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.000 min

Lab File: VN083753.D

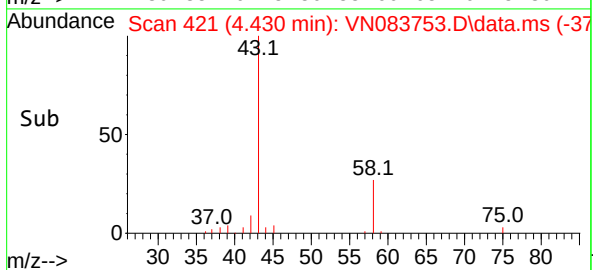
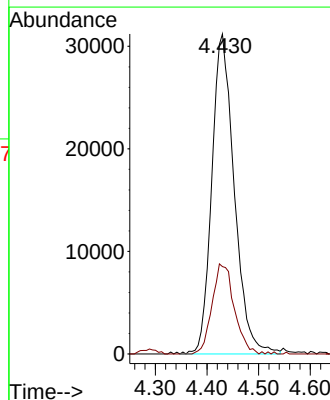
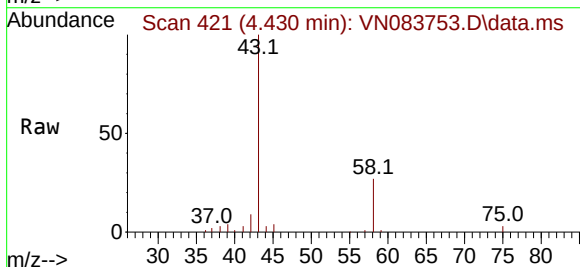
Acq: 10 Sep 2024 15:34

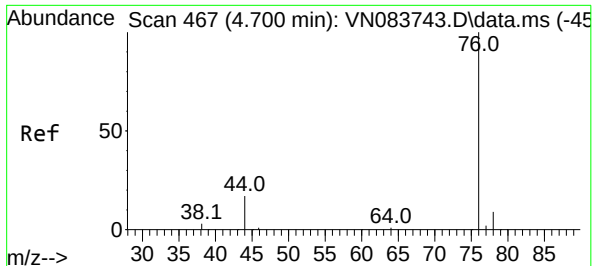
Tgt Ion: 43 Resp: 94256

Ion Ratio Lower Upper

43 100

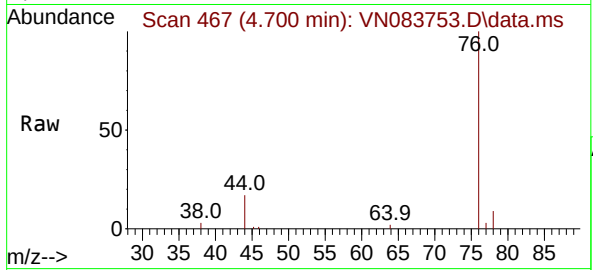
58 27.3 23.7 35.5





#17
Carbon Disulfide
Concen: 16.626 ug/l
RT: 4.700 min Scan# 467
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

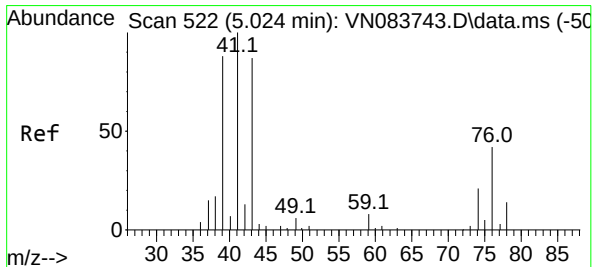
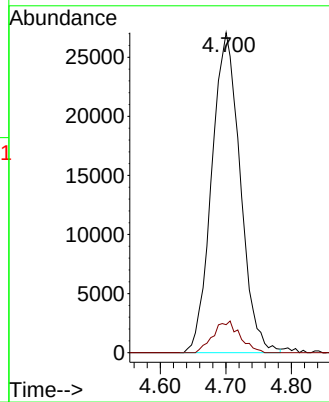
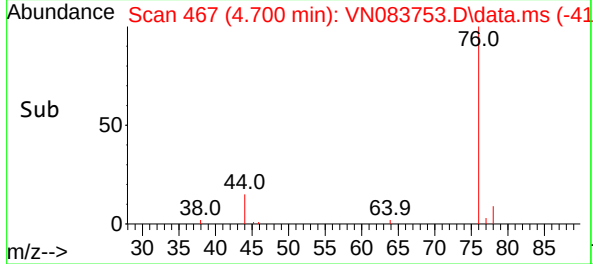
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01



Tgt Ion: 76 Resp: 81669
Ion Ratio Lower Upper
76 100
78 8.7 7.1 10.7

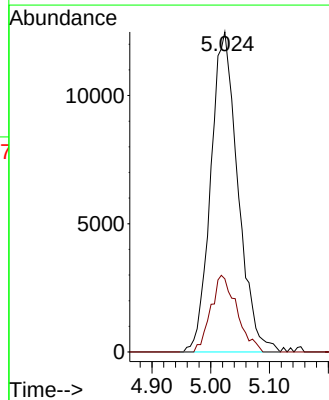
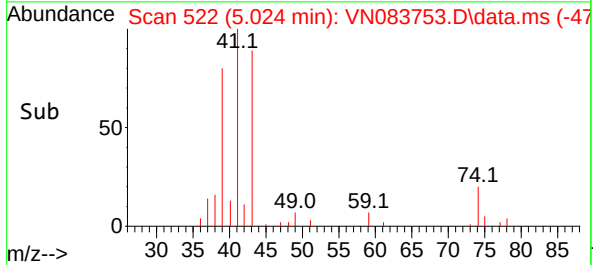
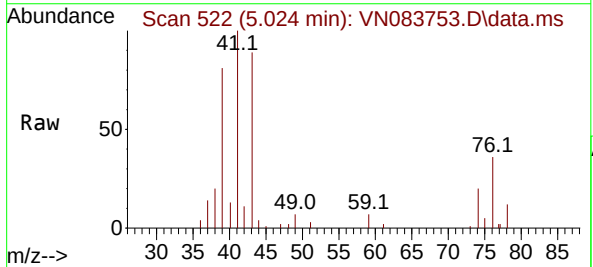
Manual Integrations
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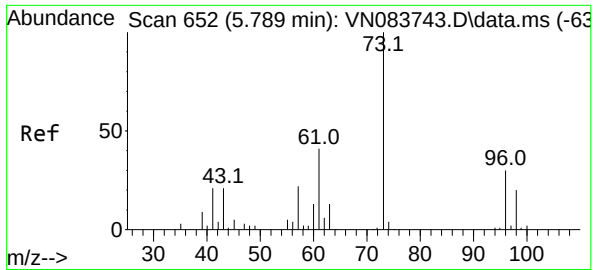
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#18
Methyl Acetate
Concen: 18.461 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 43 Resp: 40141
Ion Ratio Lower Upper
43 100
74 22.9 19.0 28.4





#19

Methyl tert-butyl Ether

Concen: 17.850 ug/l

RT: 5.795 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBS01

Tgt Ion: 73 Resp: 11342

Ion Ratio Lower Upper

73 100

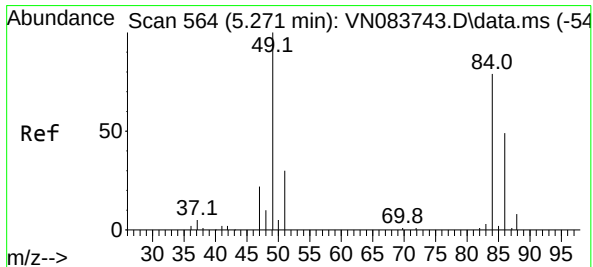
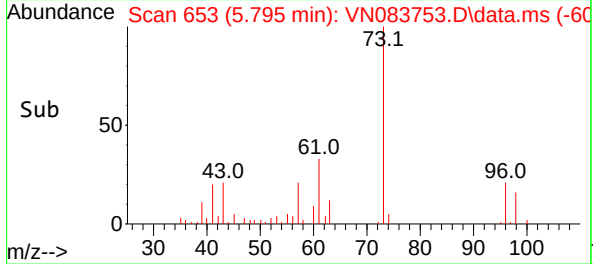
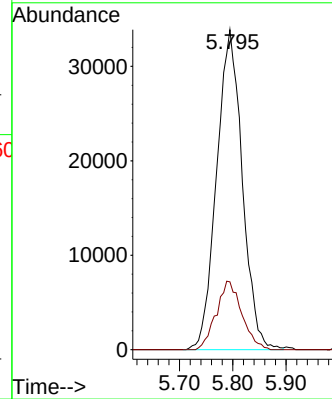
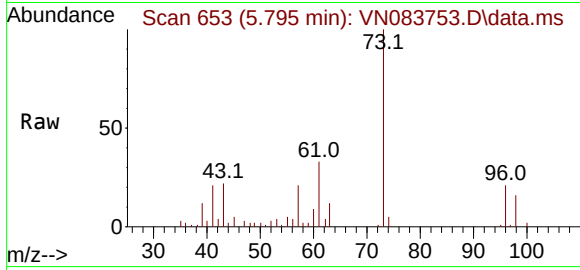
57 21.2 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#20

Methylene Chloride

Concen: 17.919 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Tgt Ion: 84 Resp: 35985

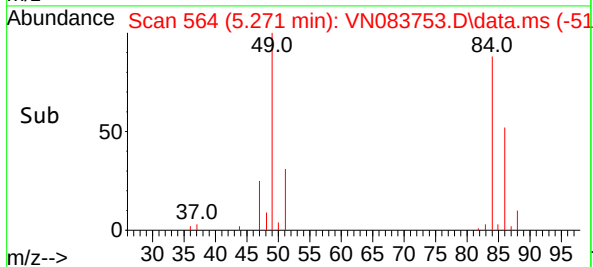
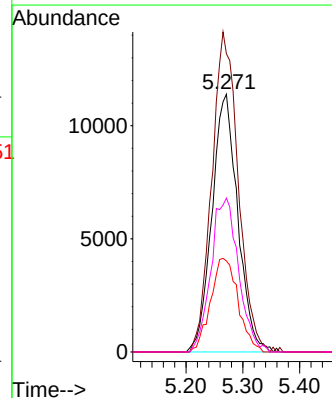
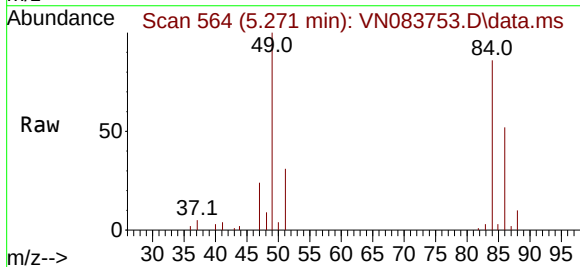
Ion Ratio Lower Upper

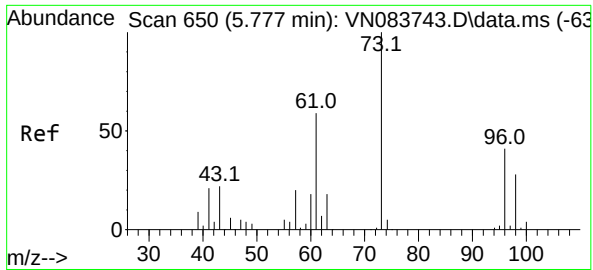
84 100

49 115.7 93.4 140.0

51 35.3 29.2 43.8

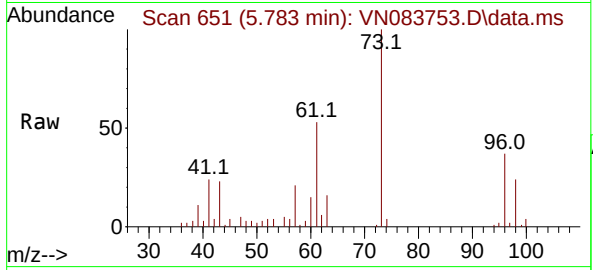
86 59.7 46.9 70.3





#21
trans-1,2-Dichloroethene
Concen: 16.552 ug/l
RT: 5.783 min Scan# 611
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

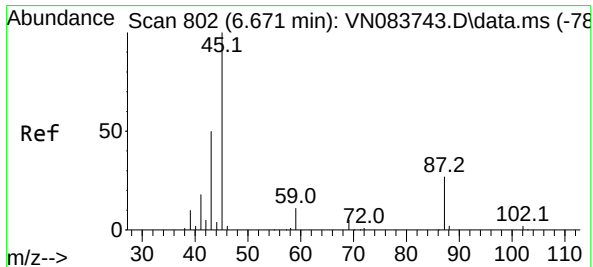
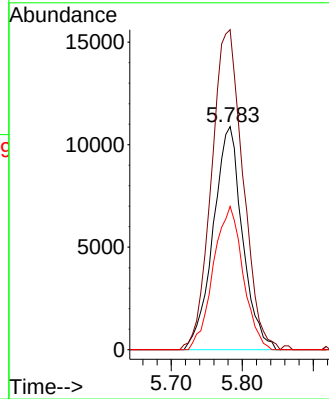
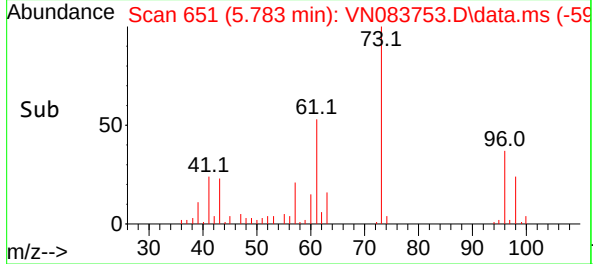
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01



Tgt Ion: 96 Resp: 31149
Ion Ratio Lower Upper
96 100
61 143.5 106.0 159.0
98 64.2 52.2 78.2

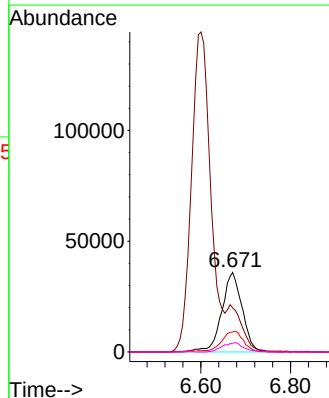
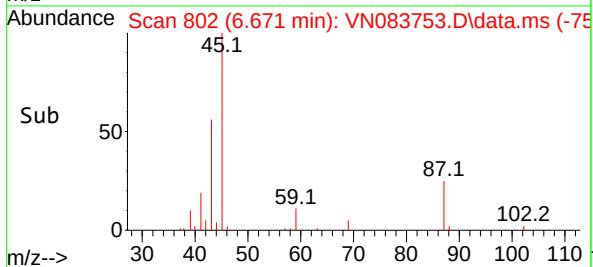
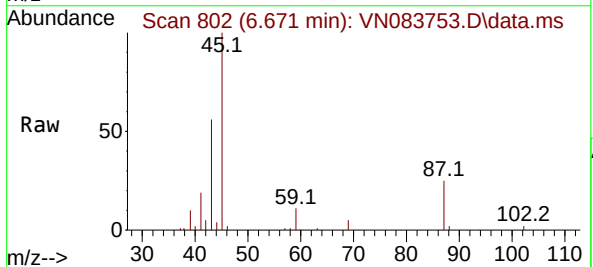
Manual Integrations
APPROVED

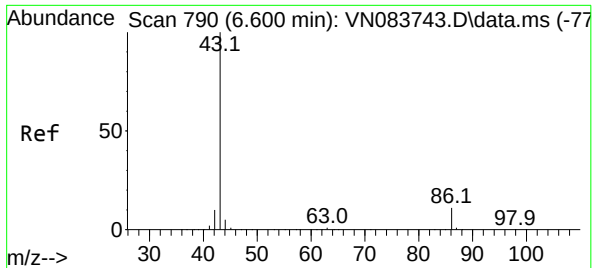
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#22
Diisopropyl ether
Concen: 17.620 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 45 Resp: 113491
Ion Ratio Lower Upper
45 100
43 54.3 43.4 65.0
87 25.1 22.6 33.8
59 11.0 9.1 13.7





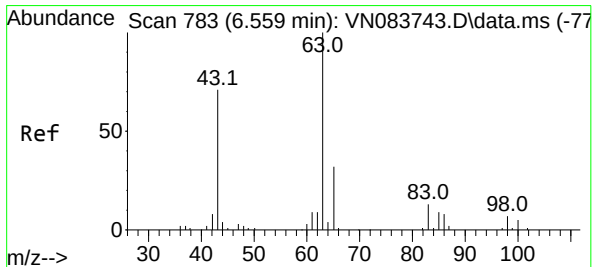
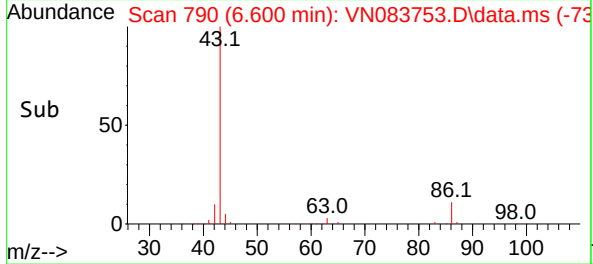
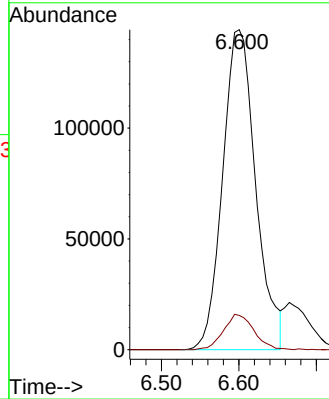
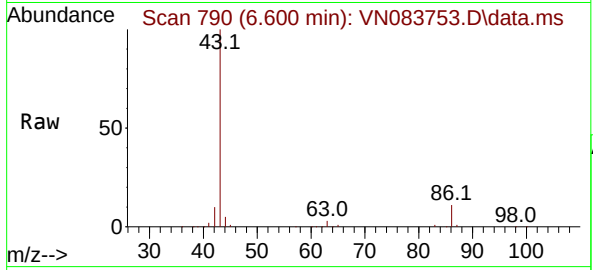
#23
Vinyl Acetate
Concen: 90.941 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Tgt Ion: 43 Resp: 428958
Ion Ratio Lower Upper
43 100
86 10.7 8.7 13.1

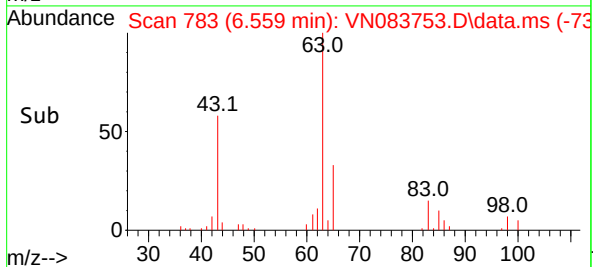
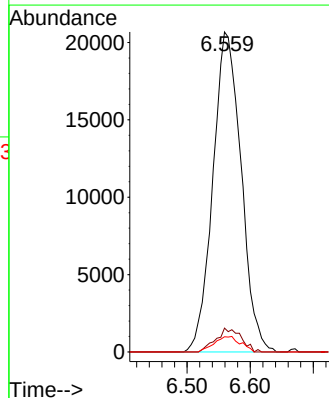
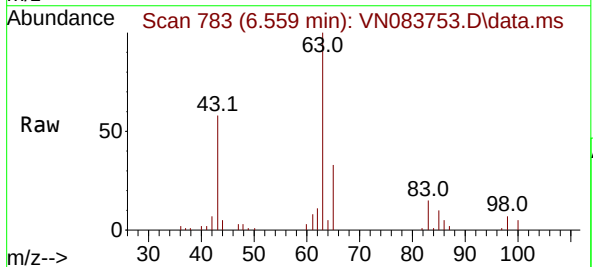
Manual Integrations
APPROVED

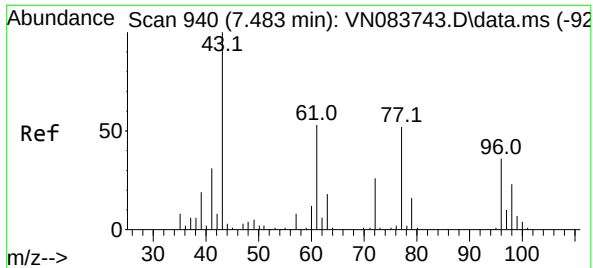
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#24
1,1-Dichloroethane
Concen: 17.323 ug/l
RT: 6.559 min Scan# 783
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

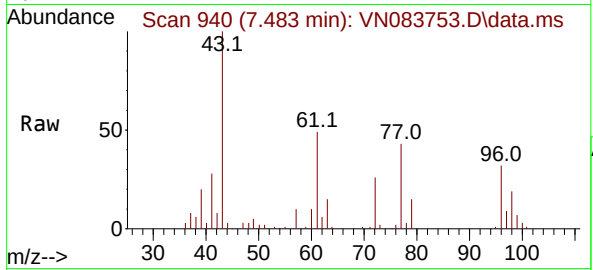
Tgt Ion: 63 Resp: 64282
Ion Ratio Lower Upper
63 100
98 7.4 3.5 10.4
100 4.8 2.5 7.5





#25
2-Butanone
Concen: 93.580 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

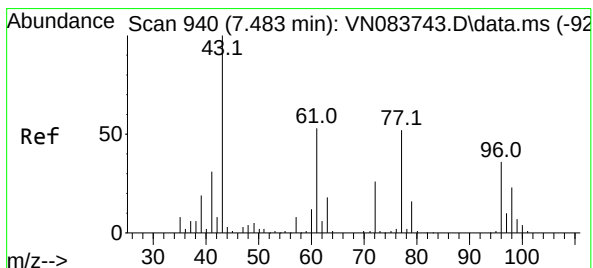
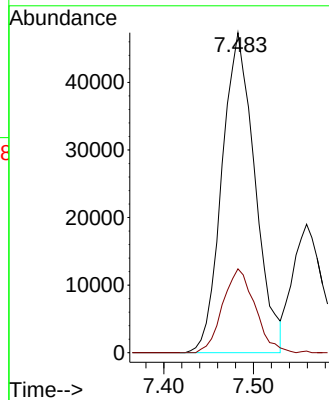
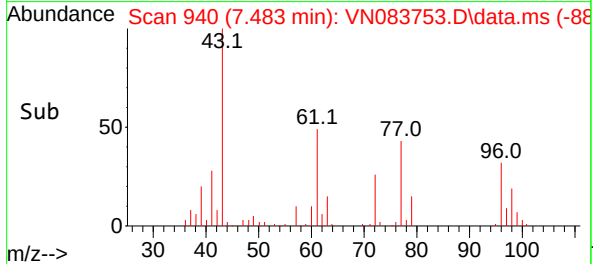
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01



Tgt Ion: 43 Resp: 120702
Ion Ratio Lower Upper
43 100
72 26.2 20.8 31.2

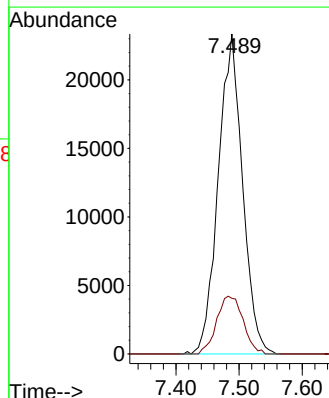
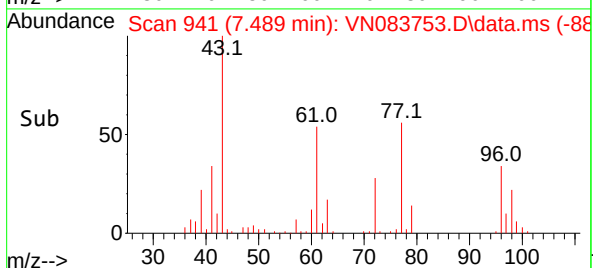
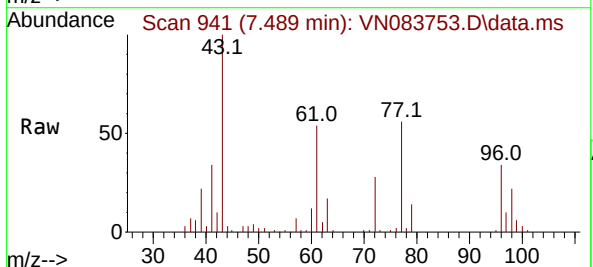
Manual Integrations
APPROVED

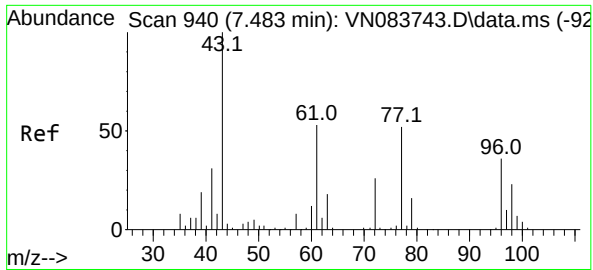
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#26
2,2-Dichloropropane
Concen: 18.248 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 77 Resp: 62359
Ion Ratio Lower Upper
77 100
97 19.7 10.2 30.4





#27

cis-1,2-Dichloroethene

Concen: 17.704 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBS01

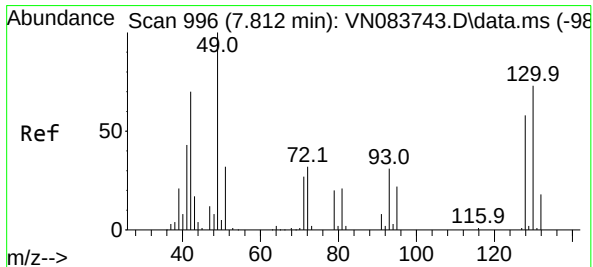
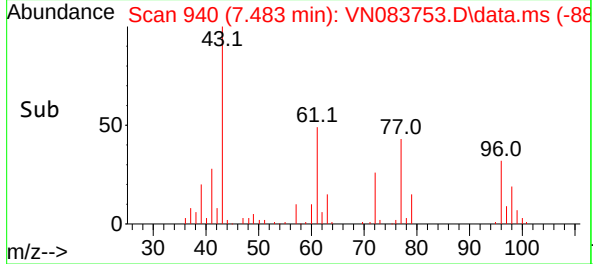
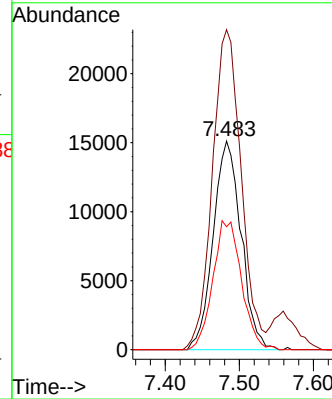
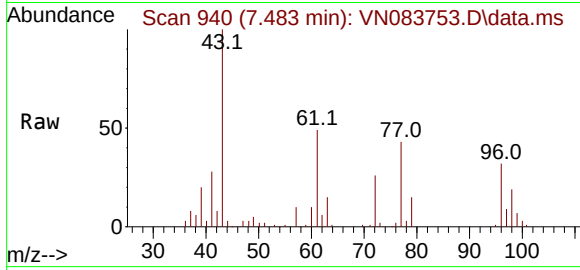
Tgt Ion: 96	Resp: 39550
Ion Ratio	Lower Upper
96 100	
61 158.2	0.0 306.2
98 63.2	0.0 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#28

Bromochloromethane

Concen: 22.316 ug/l

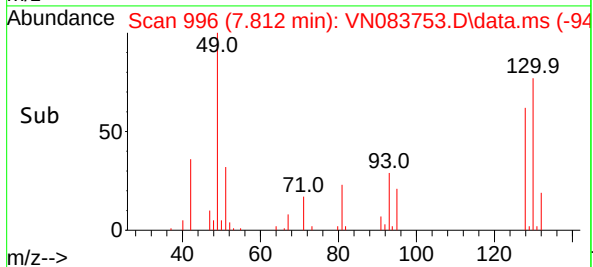
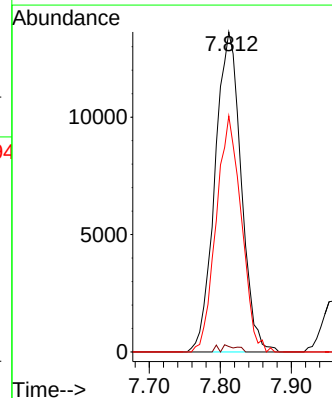
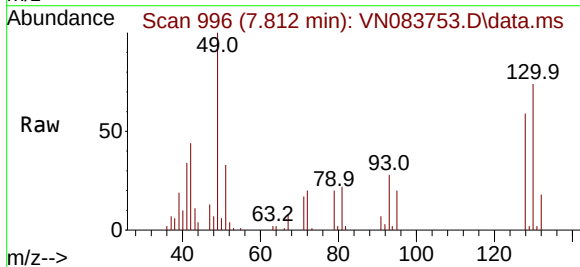
RT: 7.812 min Scan# 996

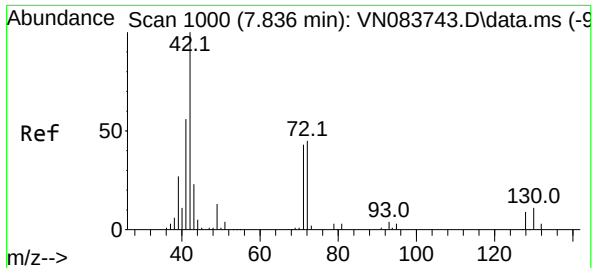
Delta R.T. 0.000 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Tgt Ion: 49	Resp: 34873
Ion Ratio	Lower Upper
49 100	
129 1.4	0.0 3.4
130 70.9	60.2 90.2





#29

Tetrahydrofuran

Concen: 92.642 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.000 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBS01

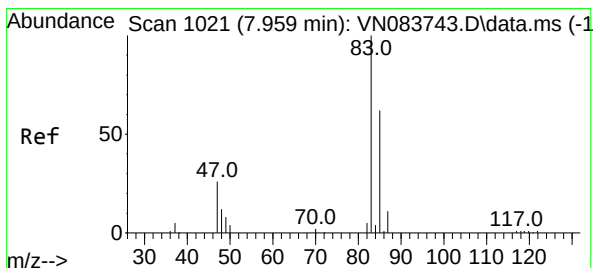
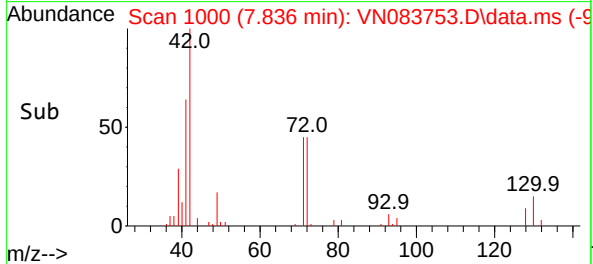
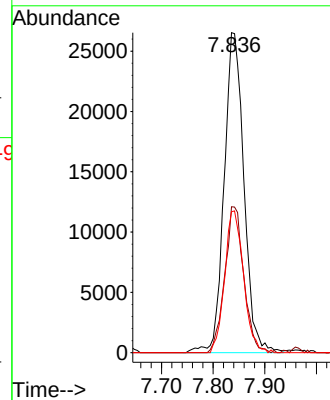
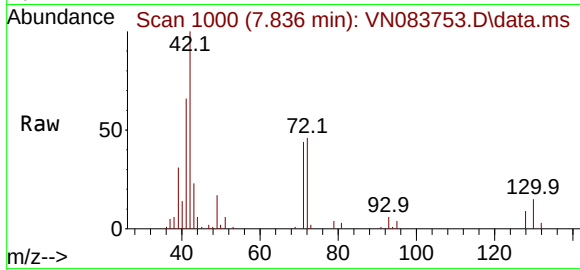
Tgt Ion:	42	Resp:	7065
Ion	Ratio	Lower	Upper
42	100		
72	43.8	35.9	53.9
71	42.3	33.9	50.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#30

Chloroform

Concen: 17.613 ug/l

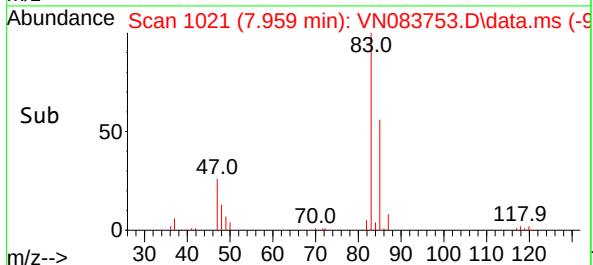
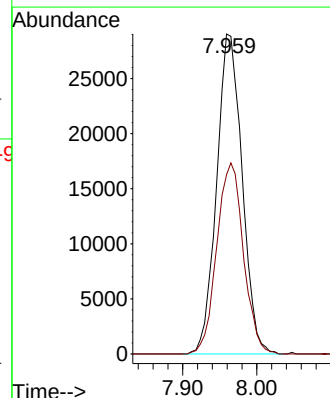
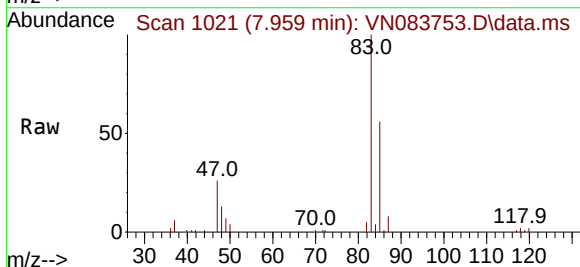
RT: 7.959 min Scan# 1021

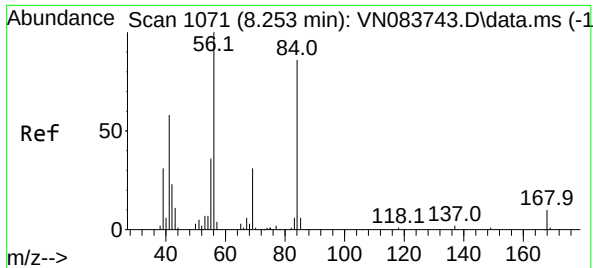
Delta R.T. 0.000 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

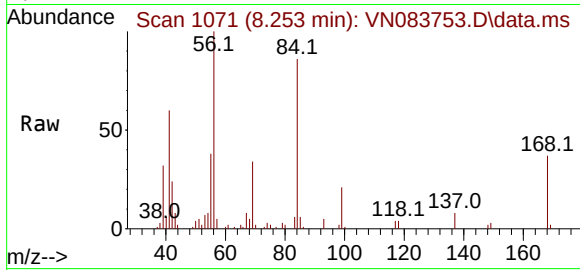
Tgt Ion:	83	Resp:	69388
Ion	Ratio	Lower	Upper
83	100		
85	56.0	52.8	79.2





#31
Cyclohexane
Concen: 16.611 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

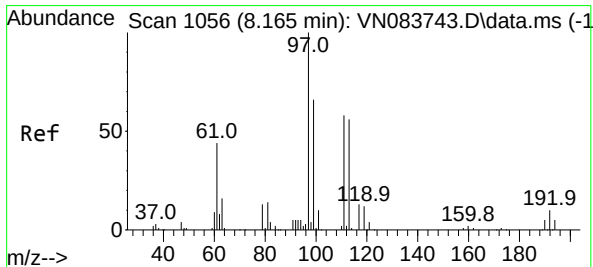
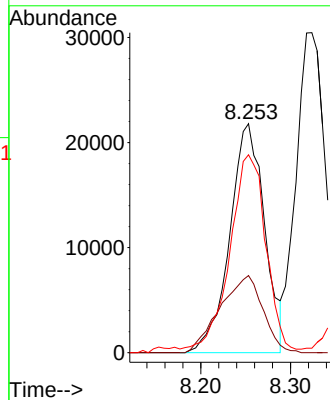
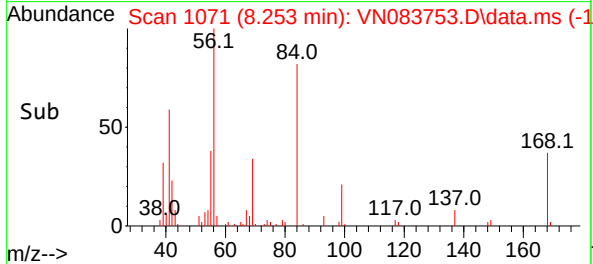
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01



Tgt Ion: 56 Resp: 58772
Ion Ratio Lower Upper
56 100
69 33.7 26.9 40.3
84 84.9 69.2 103.8

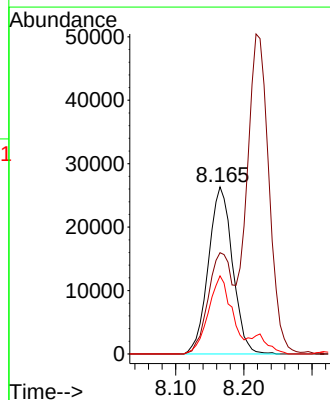
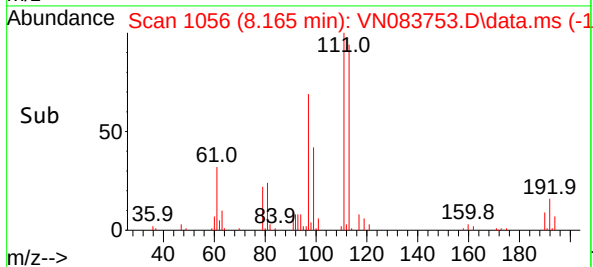
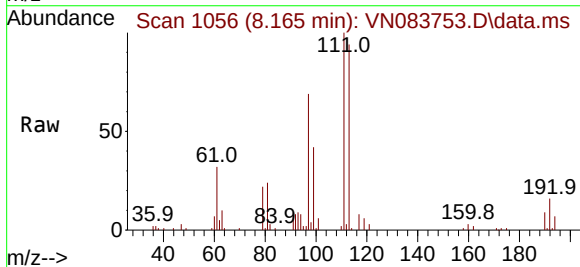
Manual Integrations
APPROVED

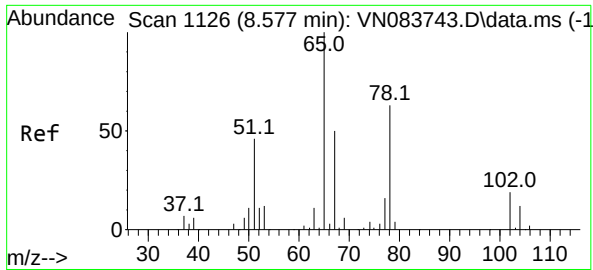
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#32
1,1,1-Trichloroethane
Concen: 17.927 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 97 Resp: 64940
Ion Ratio Lower Upper
97 100
99 62.3 52.3 78.5
61 45.4 38.2 57.2





#33

1,2-Dichloroethane-d4

Concen: 49.972 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBS01

Tgt Ion: 65 Resp: 12233

Ion Ratio Lower Upper

65 100

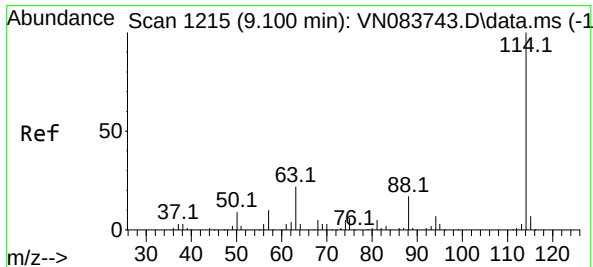
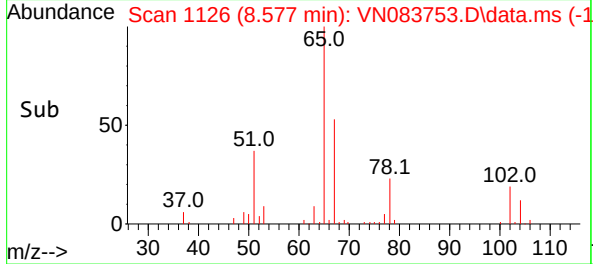
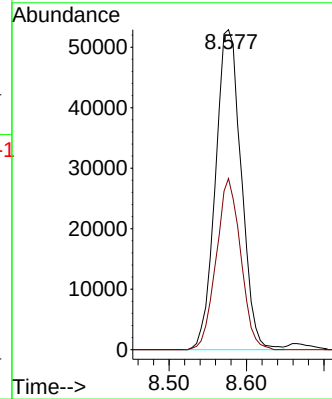
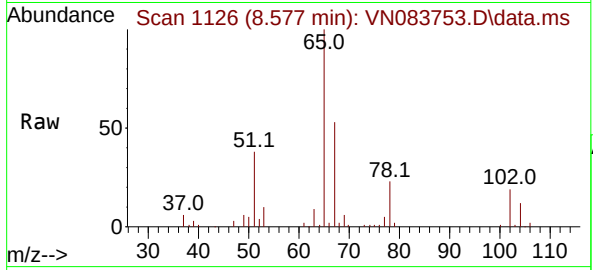
67 50.7 0.0 100.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

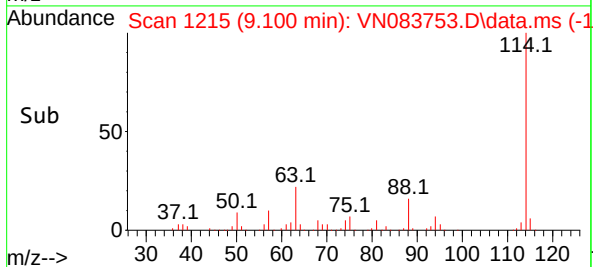
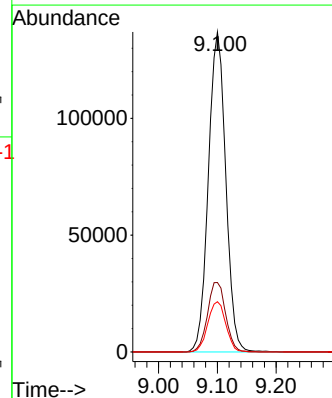
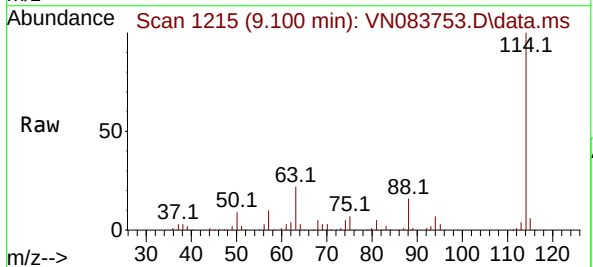
Tgt Ion:114 Resp: 280742

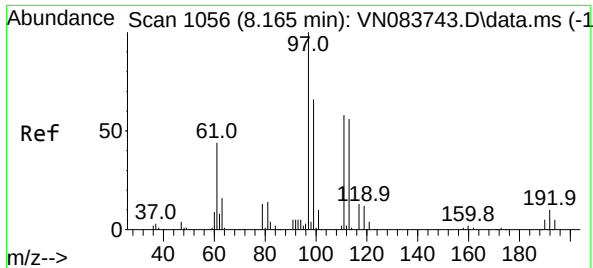
Ion Ratio Lower Upper

114 100

63 21.7 0.0 43.4

88 15.7 0.0 32.6





#35

Dibromofluoromethane

Concen: 48.333 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBS01

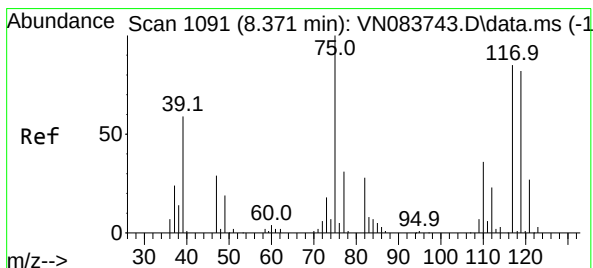
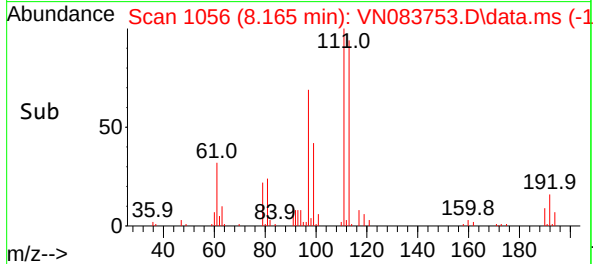
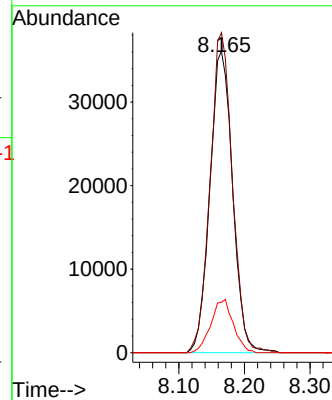
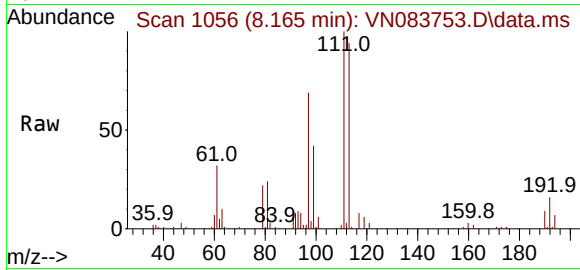
Tgt Ion:	113	Resp:	8686
Ion Ratio	Lower	Upper	
113	100		
111	104.1	82.6	124.0
192	17.4	14.3	21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#36

1,1-Dichloropropene

Concen: 16.674 ug/l

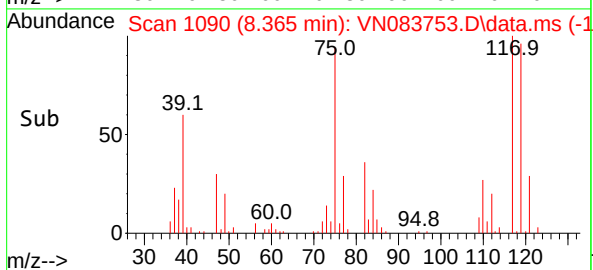
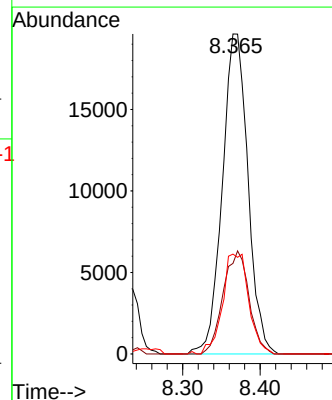
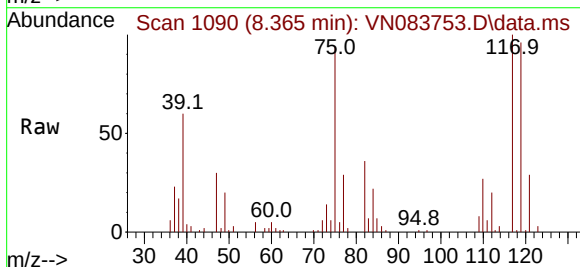
RT: 8.365 min Scan# 1090

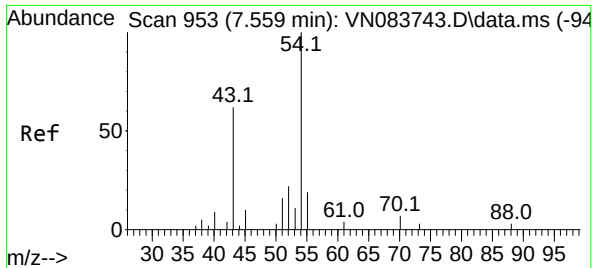
Delta R.T. -0.006 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Tgt Ion:	75	Resp:	45106
Ion Ratio	Lower	Upper	
75	100		
110	32.5	16.7	50.1
77	32.1	25.2	37.8





#37

Ethyl Acetate

Concen: 18.662 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Instrument :

MSVOA_N

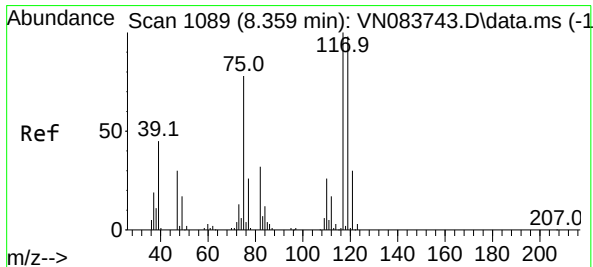
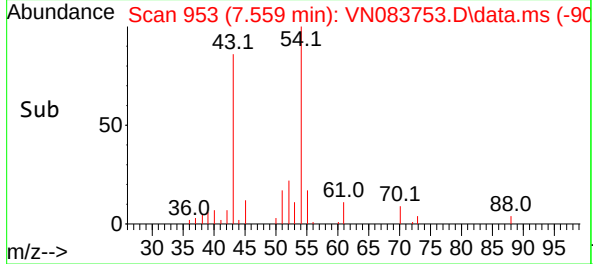
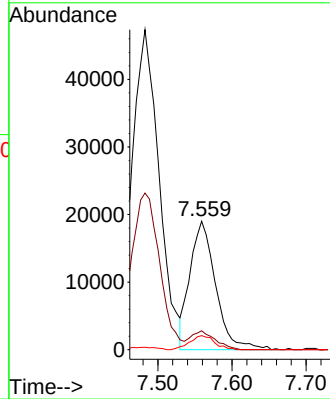
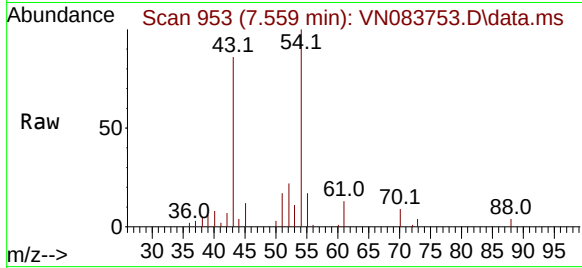
ClientSampleId :

VN0910WBS01

Tgt Ion:	43	Resp:	45824
Ion	Ratio	Lower	Upper
43	100		
61	13.8	11.1	16.7
70	10.5	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#38

Carbon Tetrachloride

Concen: 17.655 ug/l

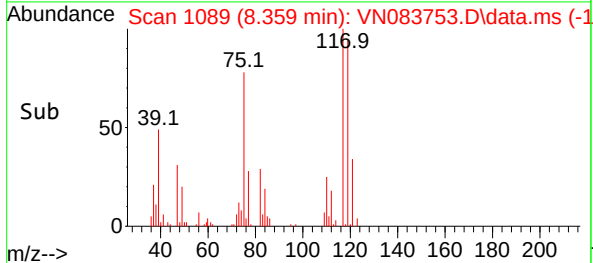
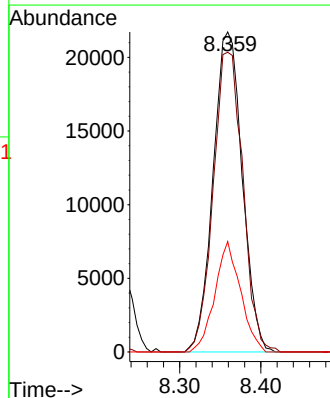
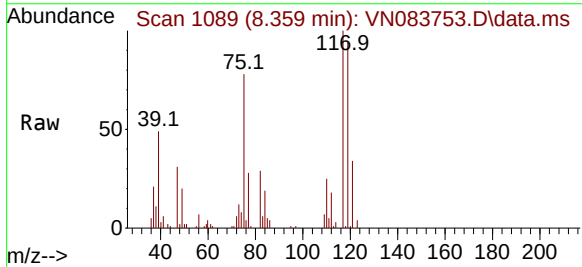
RT: 8.359 min Scan# 1089

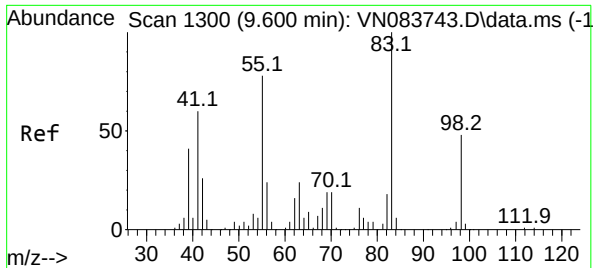
Delta R.T. 0.000 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Tgt Ion:	117	Resp:	54184
Ion	Ratio	Lower	Upper
117	100		
119	93.7	76.1	114.1
121	34.5	24.1	36.1





#39

Methylcyclohexane

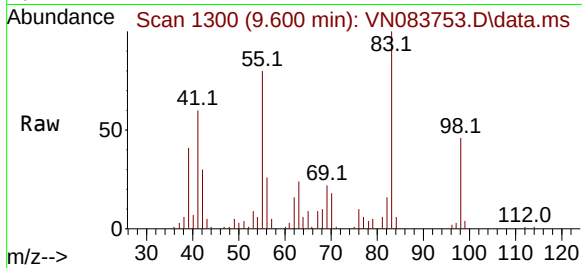
Concen: 17.846 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34



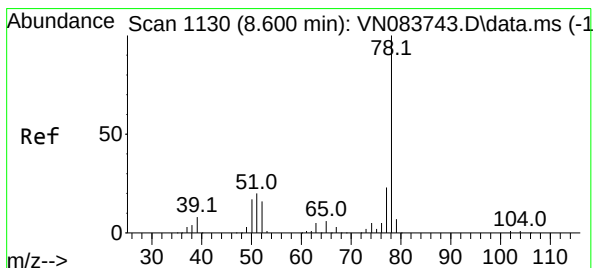
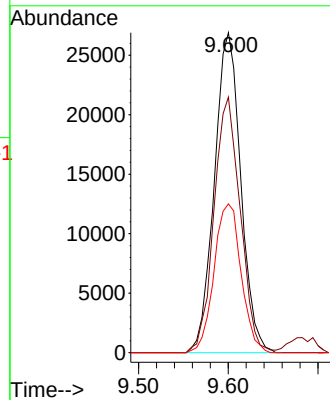
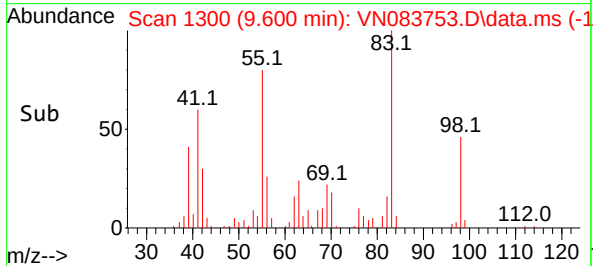
Tgt Ion:	83	Resp:	5495
Ion	Ratio	Lower	Upper
83	100		
55	79.9	62.2	93.4
98	46.5	37.6	56.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#40

Benzene

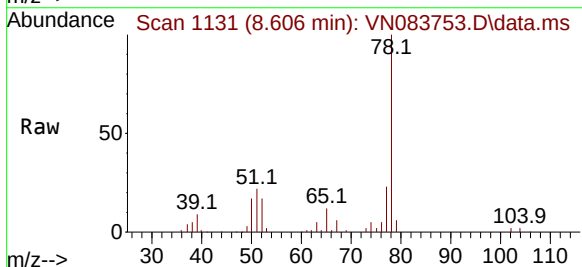
Concen: 17.539 ug/l

RT: 8.606 min Scan# 1131

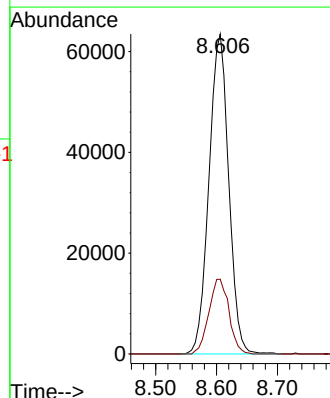
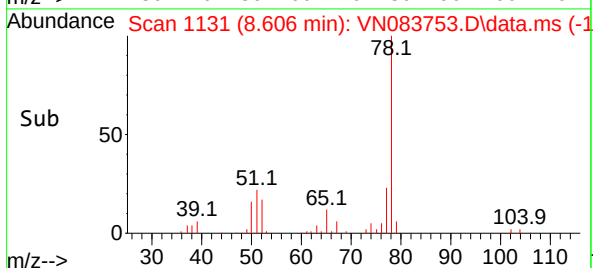
Delta R.T. 0.006 min

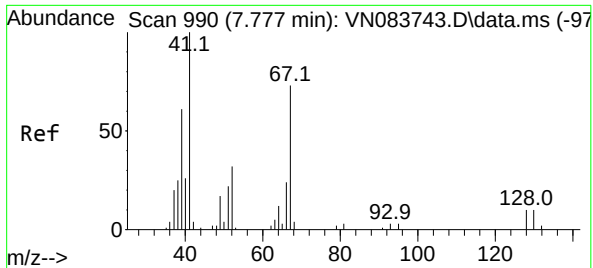
Lab File: VN083753.D

Acq: 10 Sep 2024 15:34



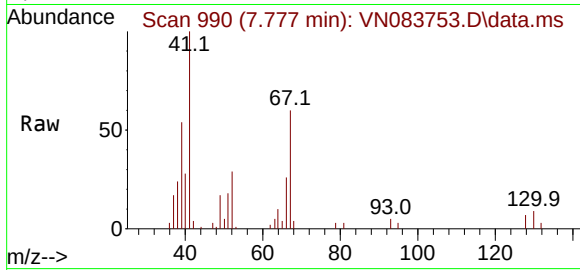
Tgt Ion:	78	Resp:	142807
Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.0	28.6





#41
Methacrylonitrile
Concen: 18.306 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

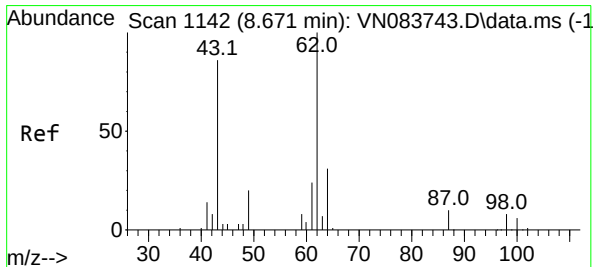
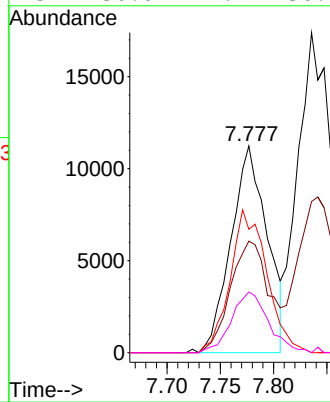
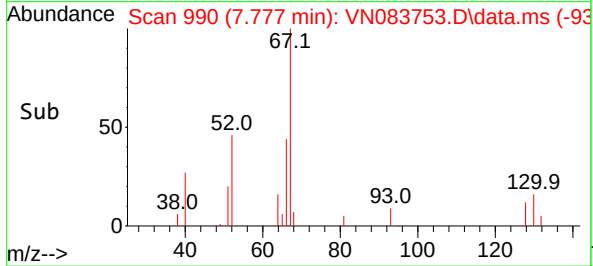
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01



Tgt Ion: 41 Resp: 26580
Ion Ratio Lower Upper
41 100
39 57.2 45.4 68.2
67 69.8 55.9 83.9
52 30.0 24.1 36.1

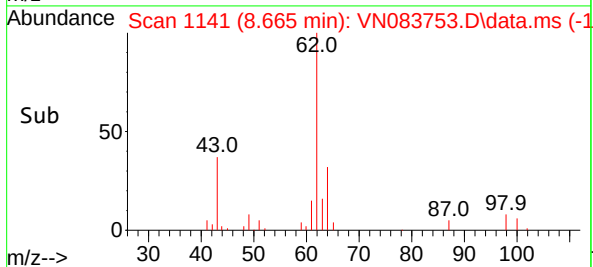
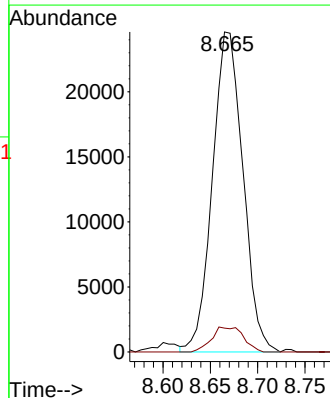
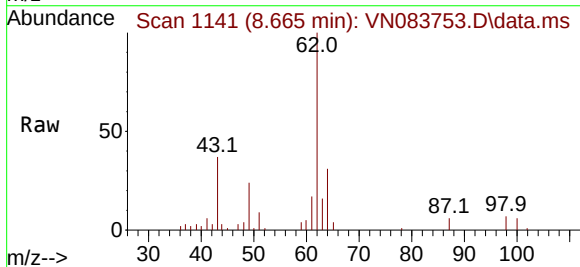
Manual Integrations
APPROVED

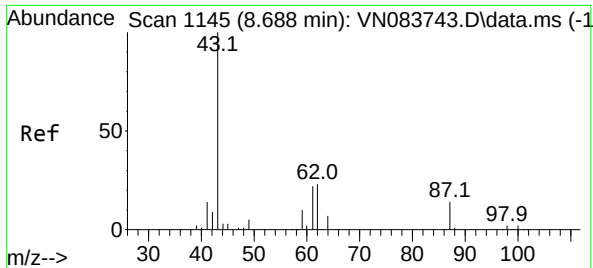
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#42
1,2-Dichloroethane
Concen: 18.125 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 62 Resp: 55145
Ion Ratio Lower Upper
62 100
98 8.1 0.0 16.6





#43

Isopropyl Acetate

Concen: 18.097 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Tgt Ion: 43	Resp: 80520
Ion Ratio	Lower Upper
43	100
61	25.8 19.4 29.0
87	13.2 9.8 14.6

Instrument :

MSVOA_N

ClientSampleId :

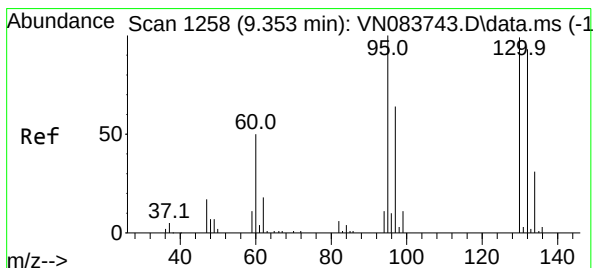
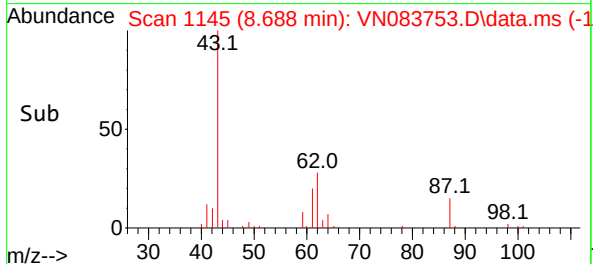
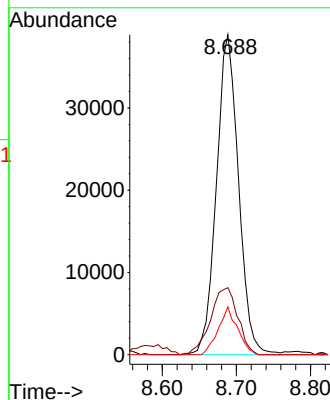
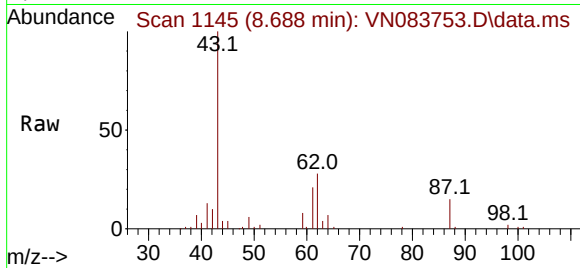
VN0910WBS01

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#44

Trichloroethene

Concen: 17.105 ug/l

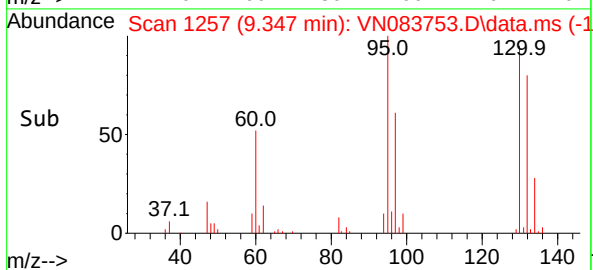
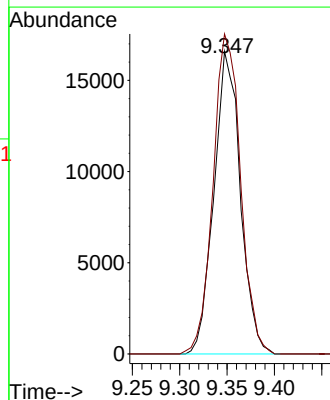
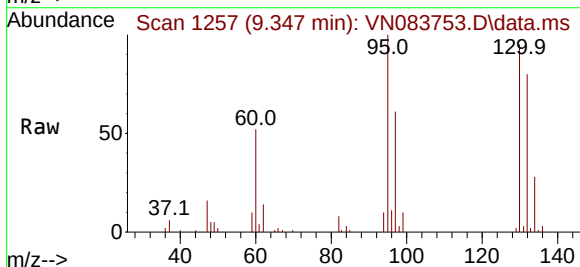
RT: 9.347 min Scan# 1257

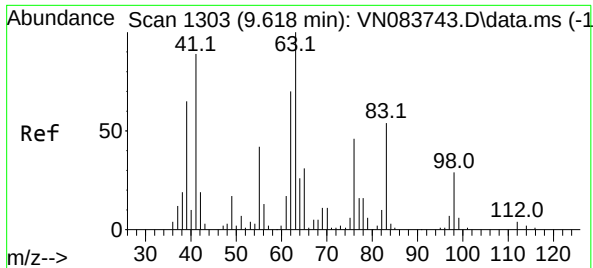
Delta R.T. -0.006 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Tgt Ion:130	Resp: 32252
Ion Ratio	Lower Upper
130	100
95	105.8 0.0 200.4





#45

1,2-Dichloropropane

Concen: 17.632 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBS01

Tgt Ion: 63 Resp: 34698

Ion Ratio Lower Upper

63 100

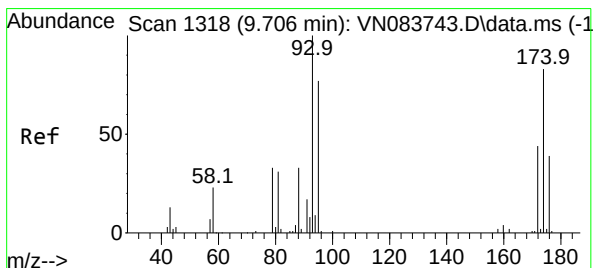
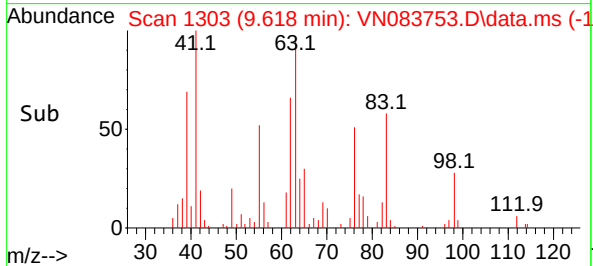
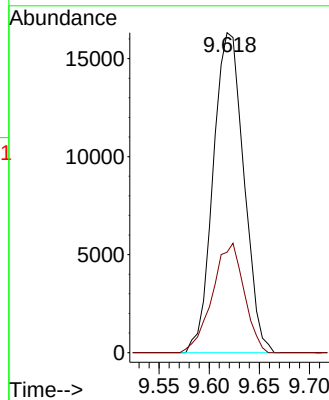
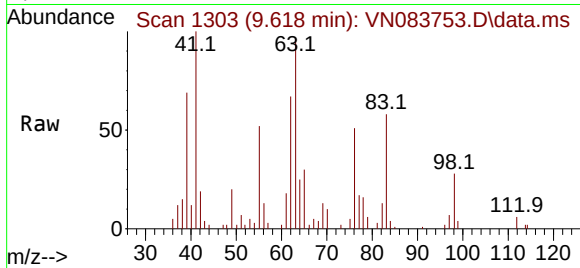
65 31.4 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#46

Dibromomethane

Concen: 18.147 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

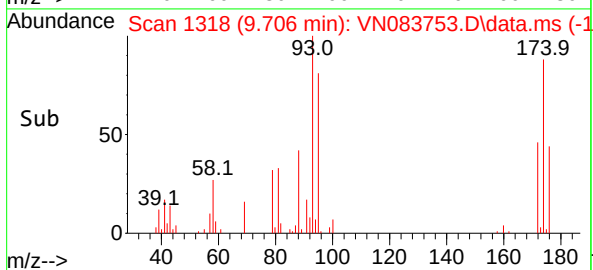
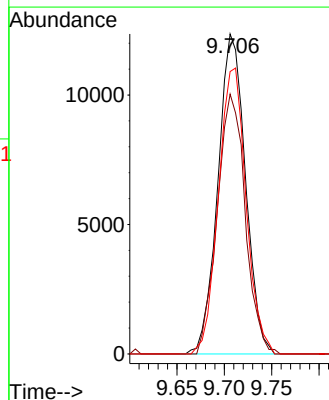
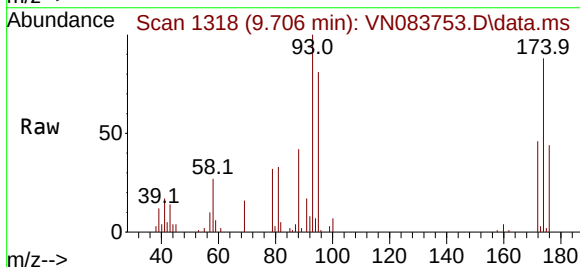
Tgt Ion: 93 Resp: 25014

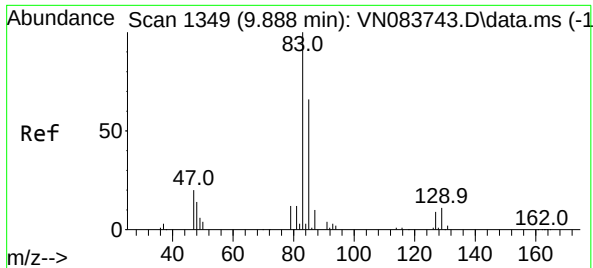
Ion Ratio Lower Upper

93 100

95 82.1 65.3 97.9

174 89.8 71.0 106.4





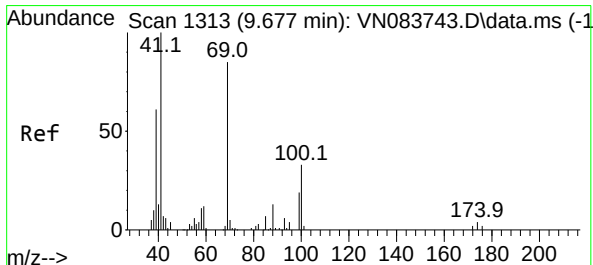
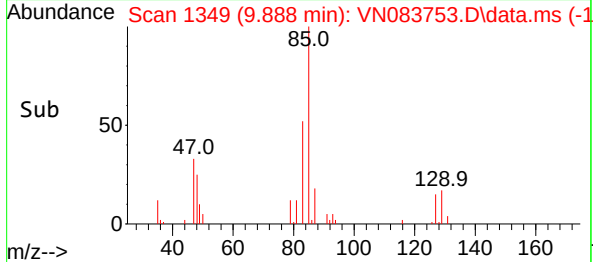
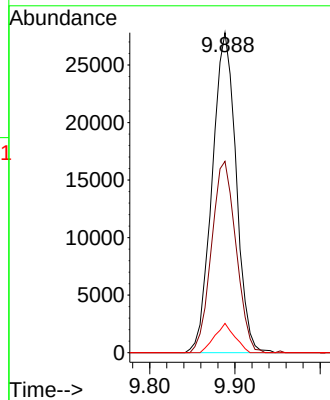
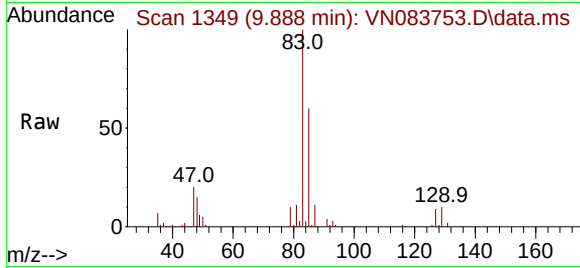
#47
Bromodichloromethane
Concen: 18.140 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Tgt Ion: 83 Resp: 54114
Ion Ratio Lower Upper
83 100
85 59.8 51.8 77.8
127 9.1 6.6 9.8

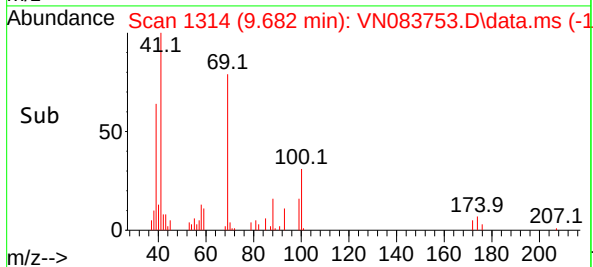
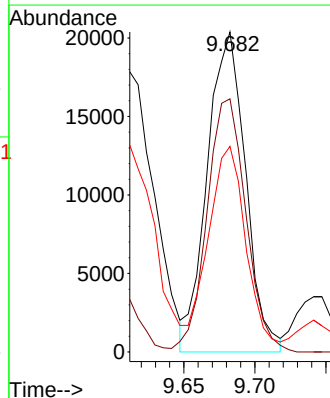
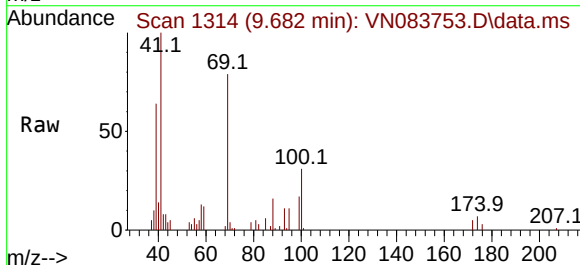
Manual Integrations
APPROVED

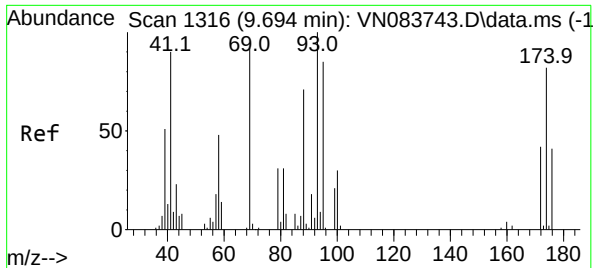
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#48
Methyl methacrylate
Concen: 18.102 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 41 Resp: 38216
Ion Ratio Lower Upper
41 100
69 80.4 64.3 96.5
39 64.5 48.9 73.3





#49

1,4-Dioxane

Concen: 369.924 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBS01

Tgt Ion: 88 Resp: 1284

Ion Ratio Lower Upper

88 100

43 32.1 0.0 0.0

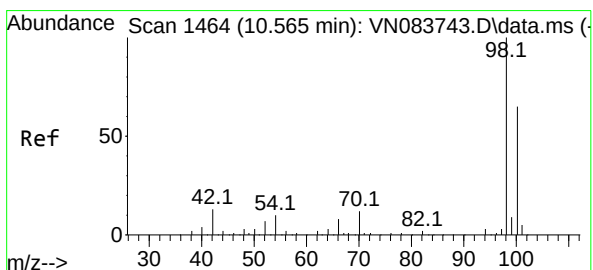
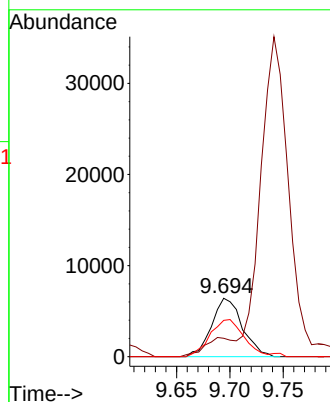
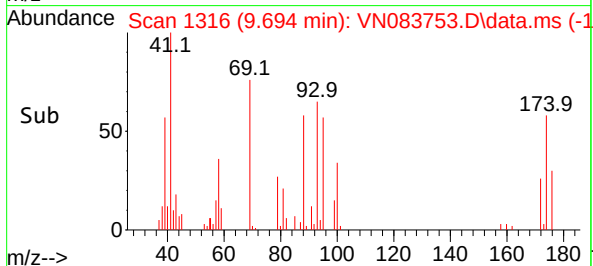
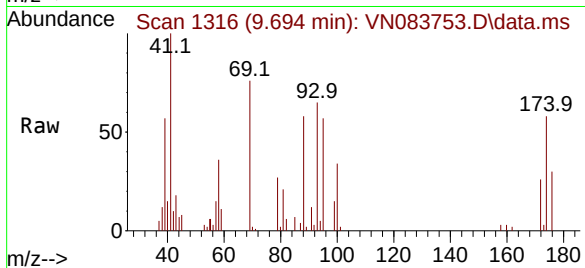
58 71.6 57.1 85.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#50

Toluene-d8

Concen: 50.774 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN083753.D

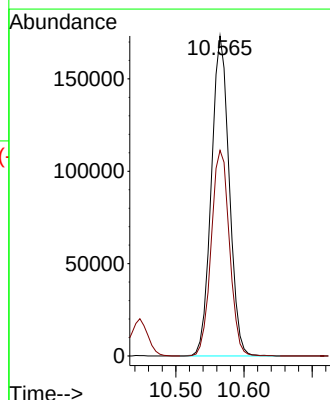
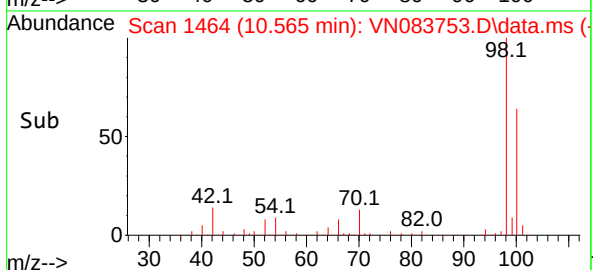
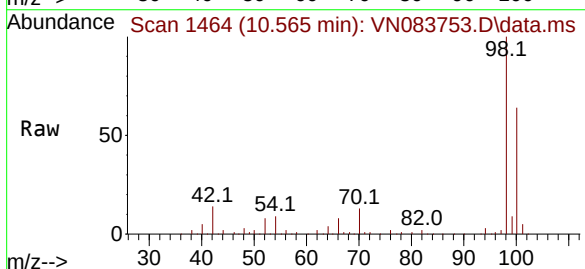
Acq: 10 Sep 2024 15:34

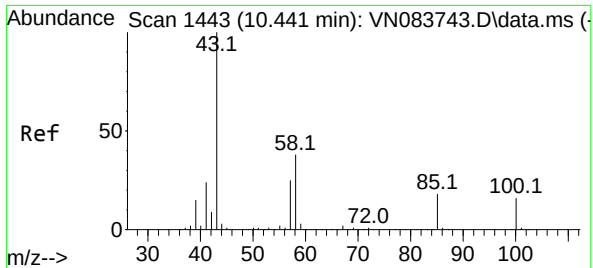
Tgt Ion: 98 Resp: 315474

Ion Ratio Lower Upper

98 100

100 65.7 52.0 78.0





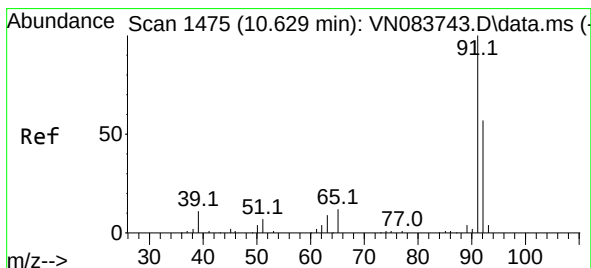
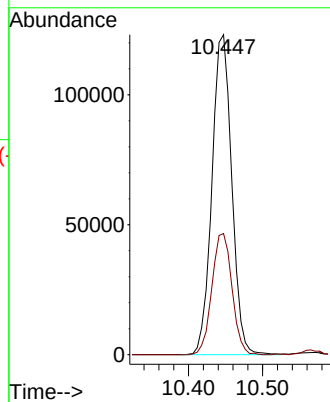
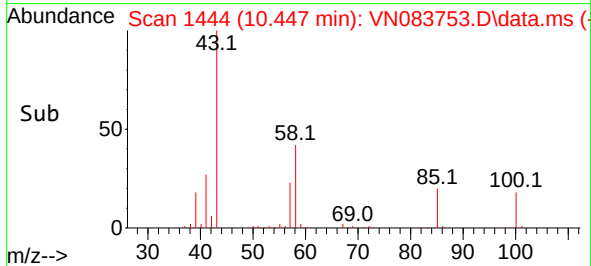
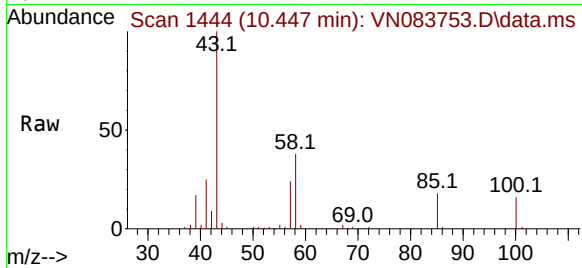
#51
4-Methyl-2-Pentanone
Concen: 94.333 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Tgt Ion: 43 Resp: 22849
Ion Ratio Lower Upper
43 100
58 38.4 31.6 47.4

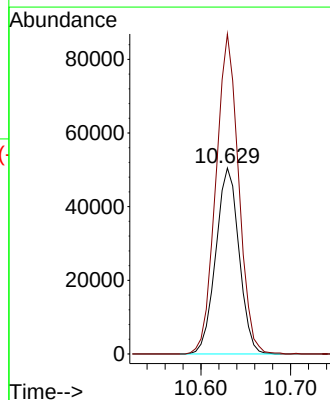
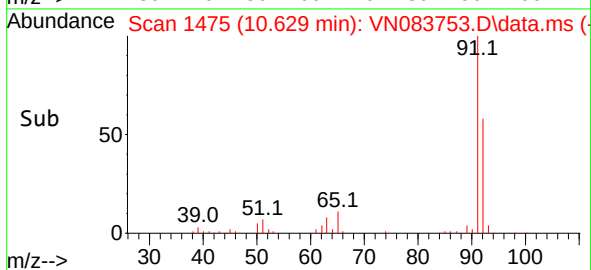
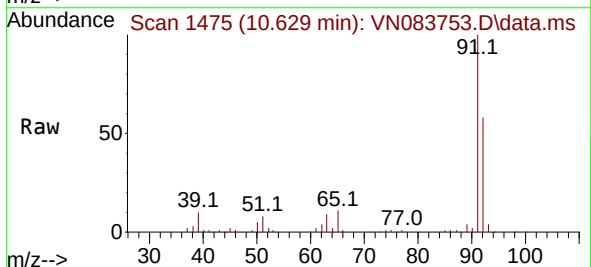
Manual Integrations
APPROVED

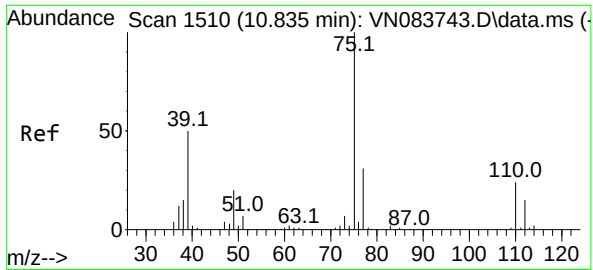
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#52
Toluene
Concen: 18.223 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

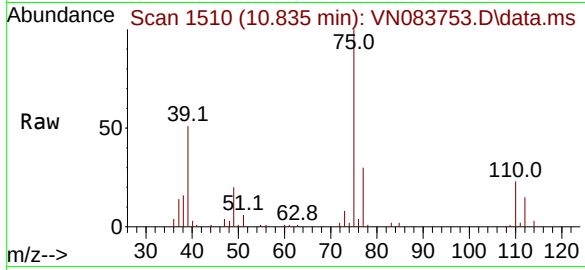
Tgt Ion: 92 Resp: 90757
Ion Ratio Lower Upper
92 100
91 168.5 134.7 202.1





#53
t-1,3-Dichloropropene
Concen: 17.505 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

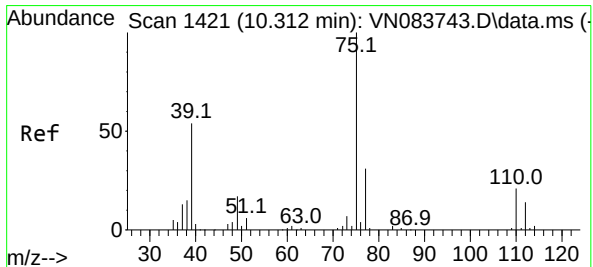
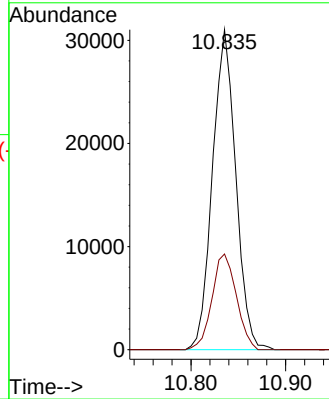
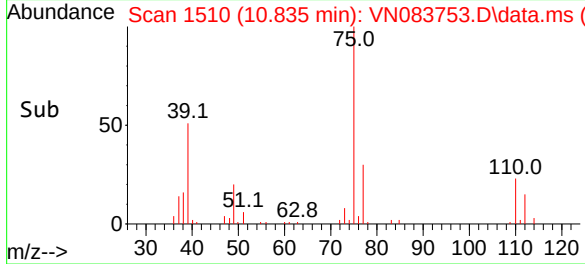
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01



Tgt Ion: 75 Resp: 5293
Ion Ratio Lower Upper
75 100
77 29.9 25.8 38.6

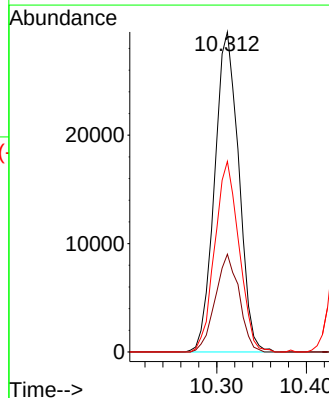
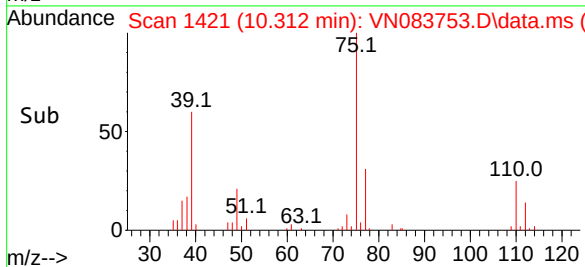
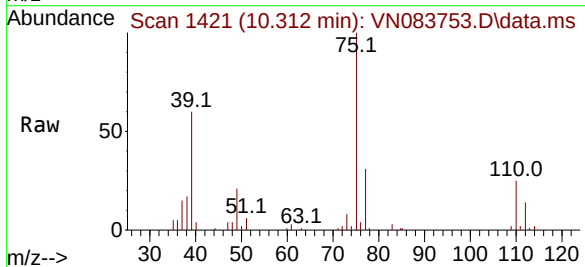
Manual Integrations
APPROVED

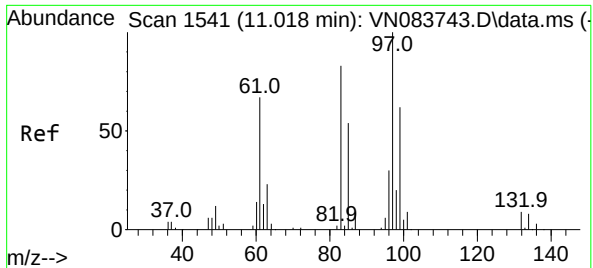
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#54
cis-1,3-Dichloropropene
Concen: 17.375 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

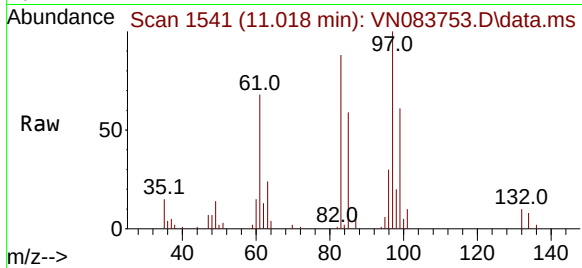
Tgt Ion: 75 Resp: 55186
Ion Ratio Lower Upper
75 100
77 30.6 25.0 37.6
39 59.6 42.6 64.0





#55
1,1,2-Trichloroethane
Concen: 17.424 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

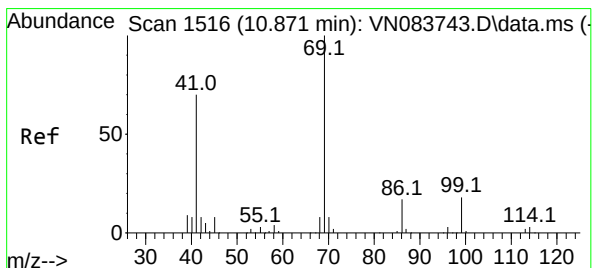
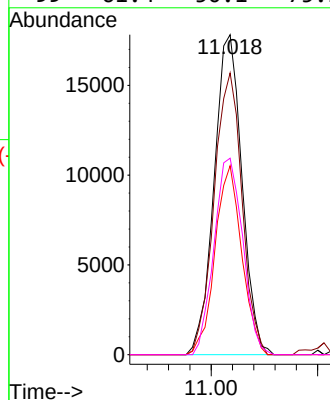
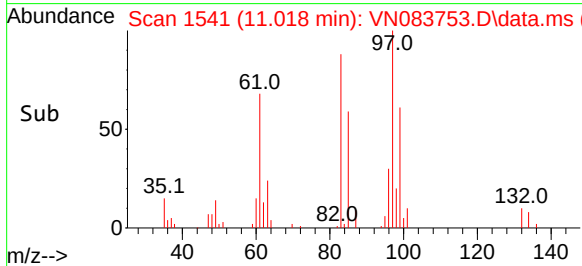
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01



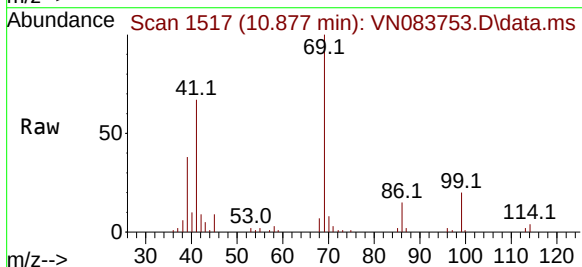
Tgt Ion: 97 Resp: 3239
Ion Ratio Lower Upper
97 100
83 88.0 67.5 101.3
85 59.1 44.2 66.2
99 61.4 50.1 75.1

Manual Integrations
APPROVED

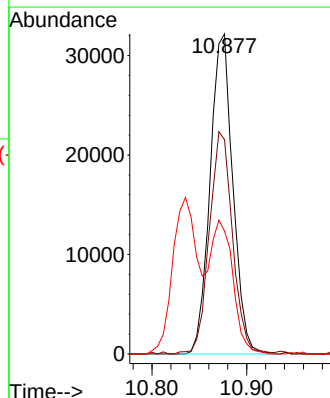
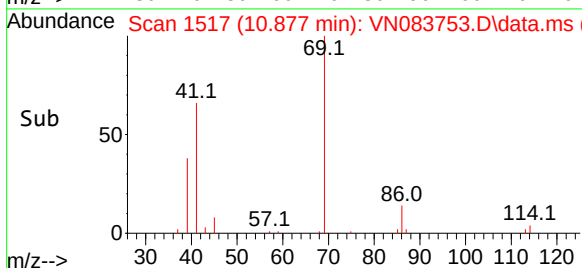
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

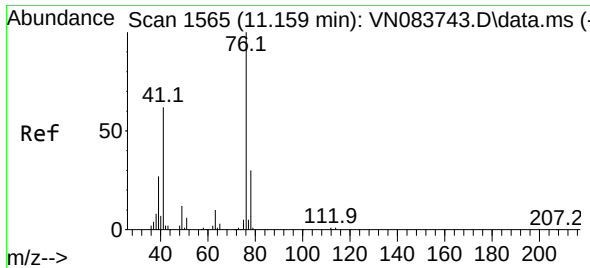


#56
Ethyl methacrylate
Concen: 18.805 ug/l
RT: 10.877 min Scan# 1517
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34



Tgt Ion: 69 Resp: 53795
Ion Ratio Lower Upper
69 100
41 71.0 53.9 80.9
39 43.1 32.6 48.8





#57

1,3-Dichloropropane

Concen: 18.251 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. 0.006 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBS01

Tgt Ion: 76 Resp: 5832

Ion Ratio Lower Upper

76 100

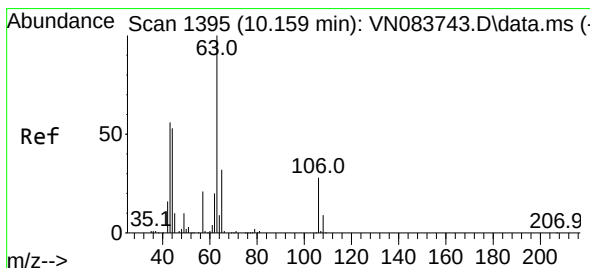
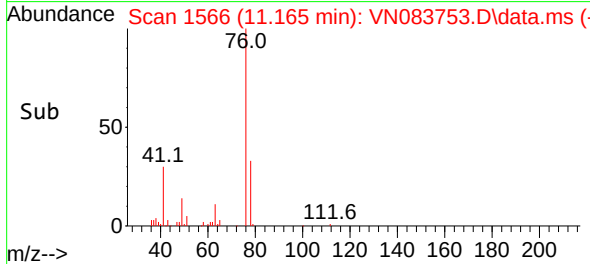
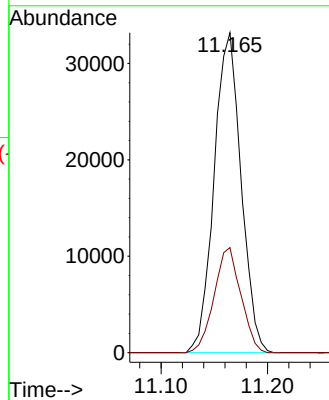
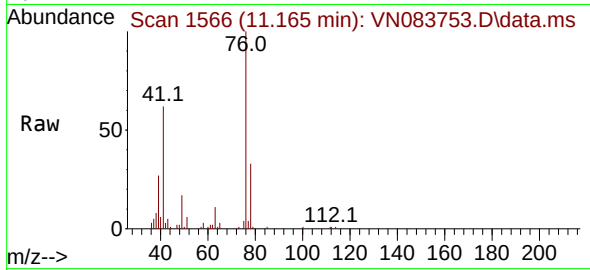
78 32.6 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#58

2-Chloroethyl Vinyl ether

Concen: 92.540 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN083753.D

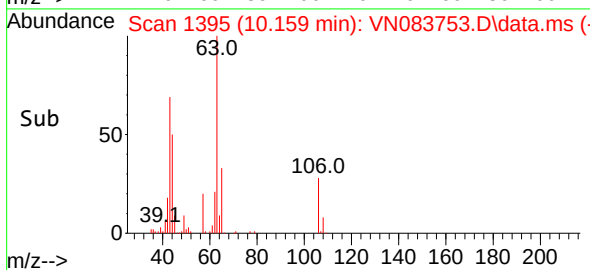
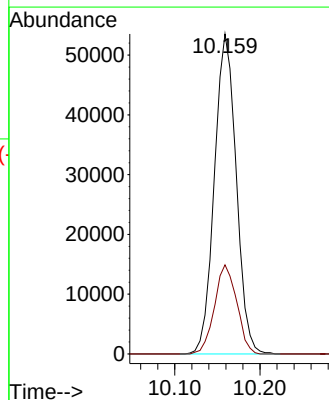
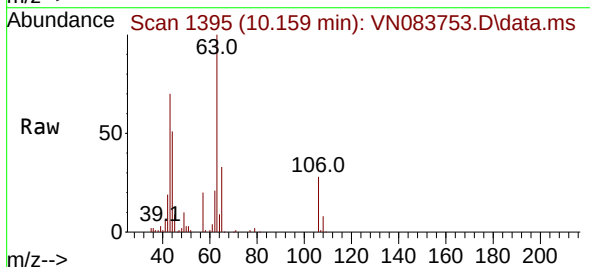
Acq: 10 Sep 2024 15:34

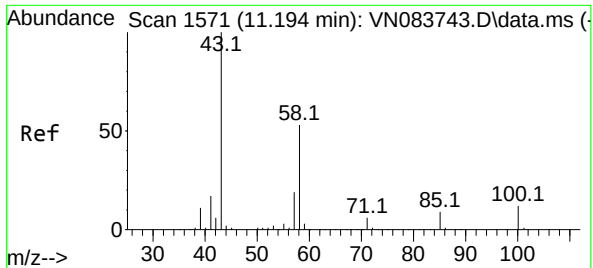
Tgt Ion: 63 Resp: 95385

Ion Ratio Lower Upper

63 100

106 28.4 23.3 34.9





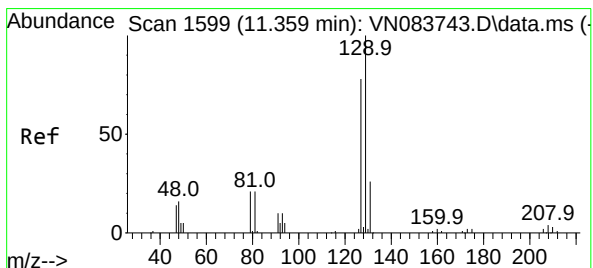
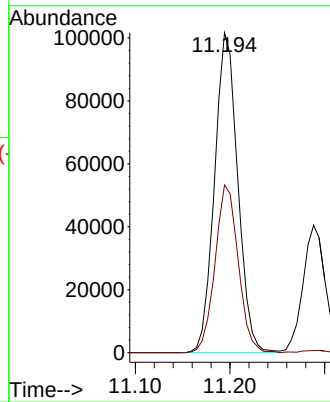
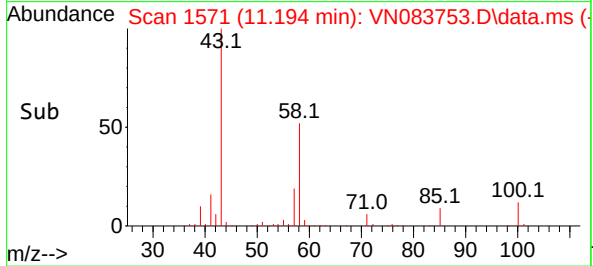
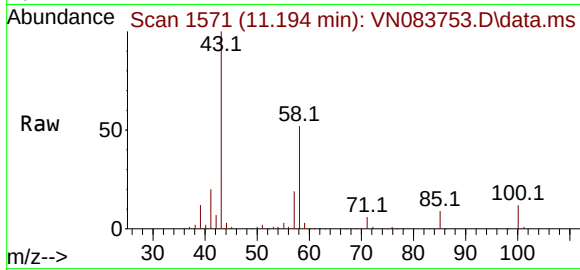
#59
2-Hexanone
Concen: 96.637 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Tgt Ion: 43 Resp: 173148
Ion Ratio Lower Upper
43 100
58 52.4 27.2 81.5

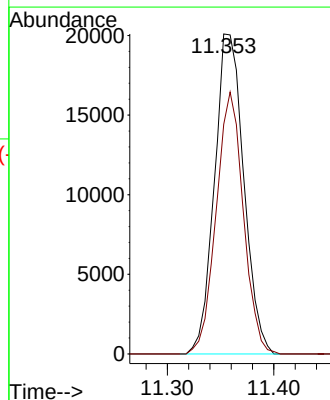
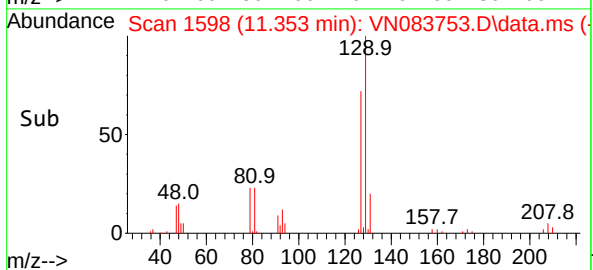
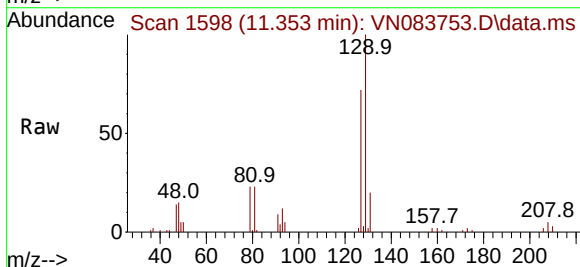
Manual Integrations
APPROVED

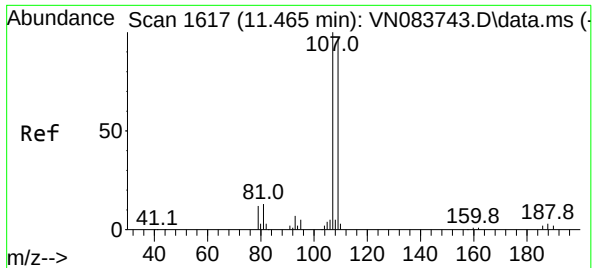
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#60
Dibromochloromethane
Concen: 18.454 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:129 Resp: 38399
Ion Ratio Lower Upper
129 100
127 75.7 39.0 116.9





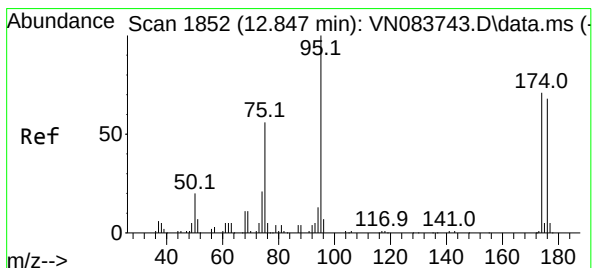
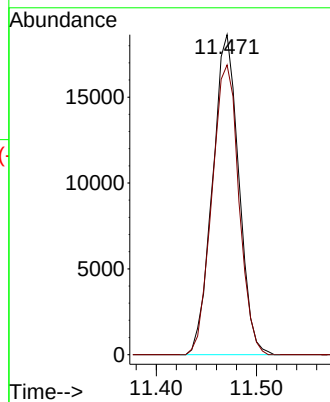
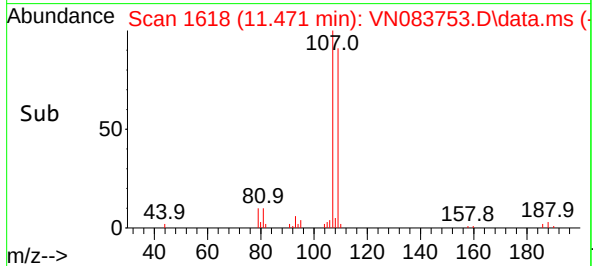
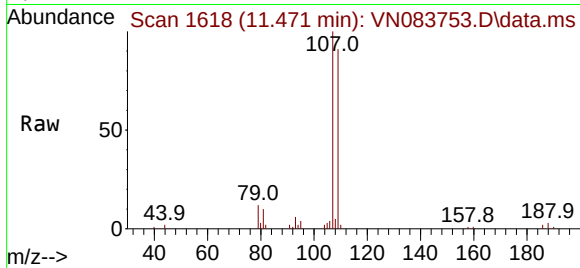
#61
1,2-Dibromoethane
Concen: 18.250 ug/l
RT: 11.471 min Scan# 1617
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Tgt Ion:107 Resp: 3384
Ion Ratio Lower Upper
107 100
109 93.0 75.6 113.4

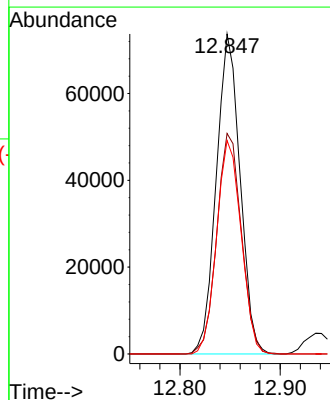
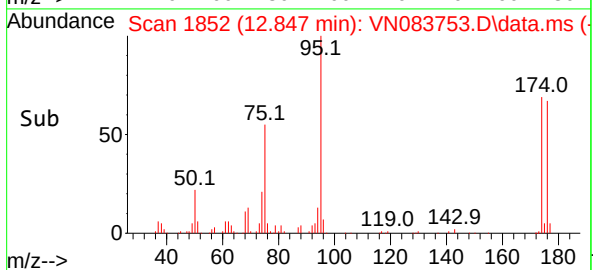
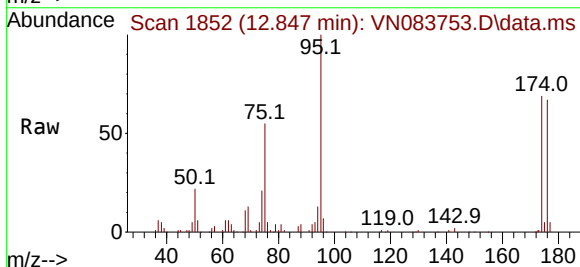
Manual Integrations
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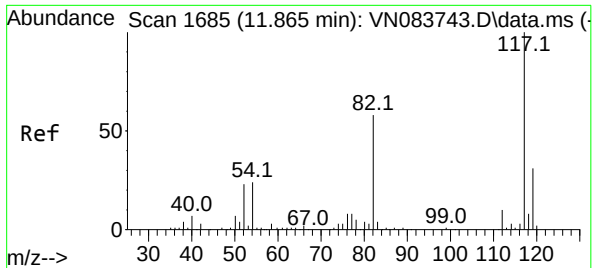
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#62
4-Bromofluorobenzene
Concen: 47.270 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 95 Resp: 121173
Ion Ratio Lower Upper
95 100
174 71.2 0.0 139.8
176 68.7 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBS01

Tgt Ion:117 Resp: 247040

Ion Ratio Lower Upper

117 100

82 59.4 47.4 71.0

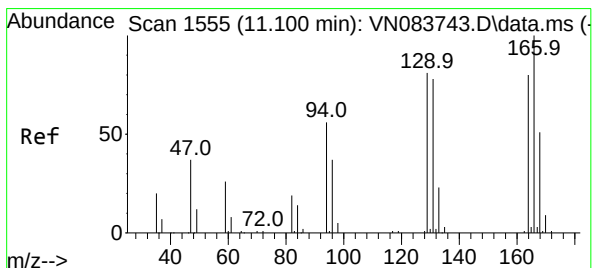
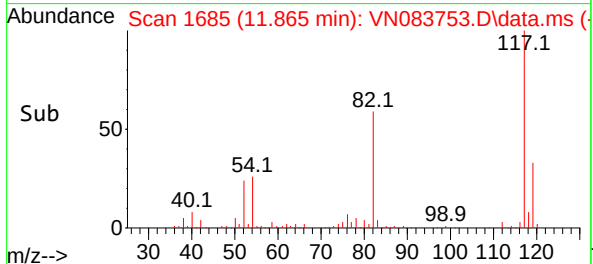
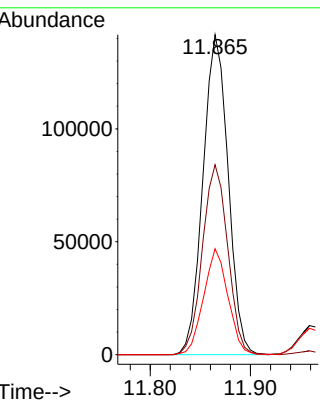
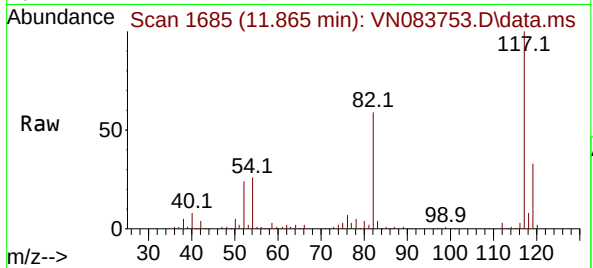
119 33.1 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#64

Tetrachloroethene

Concen: 16.902 ug/l

RT: 11.106 min Scan# 1556

Delta R.T. 0.006 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Tgt Ion:164 Resp: 27769

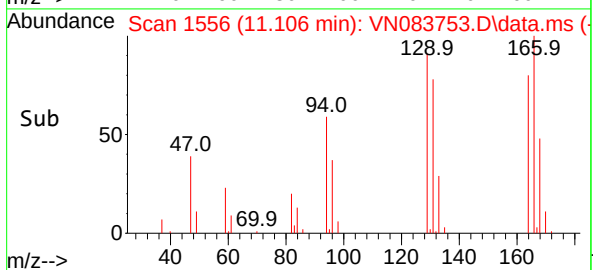
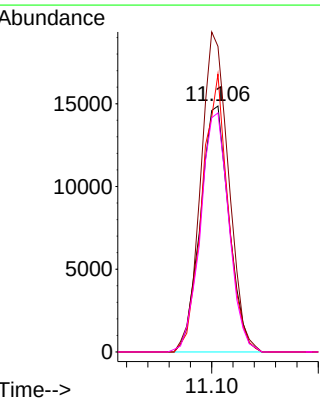
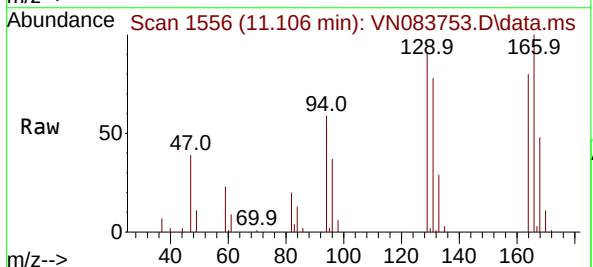
Ion Ratio Lower Upper

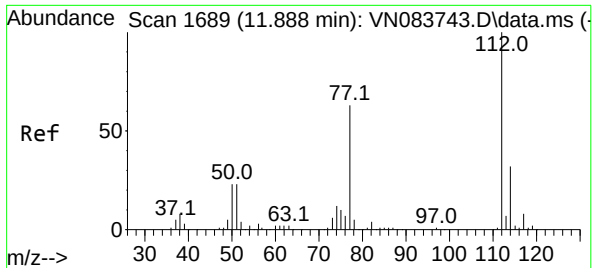
164 100

166 124.2 103.7 155.5

129 112.9 79.9 119.9

131 97.2 78.4 117.6





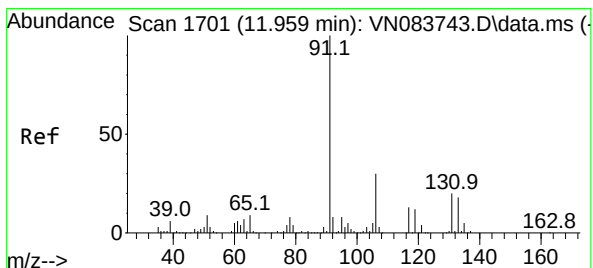
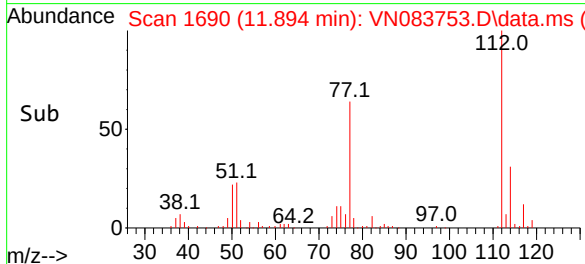
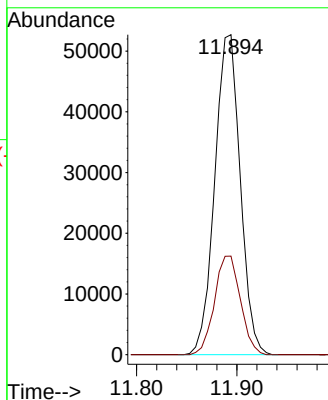
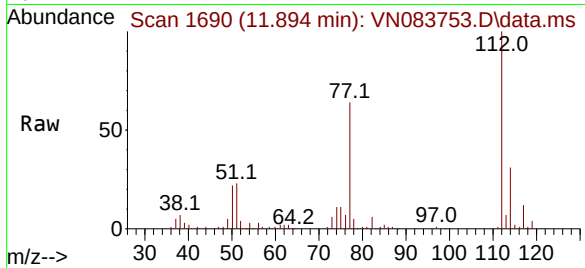
#65
Chlorobenzene
Concen: 16.934 ug/l
RT: 11.894 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Tgt Ion:112 Resp: 92980
Ion Ratio Lower Upper
112 100
114 30.8 25.7 38.5

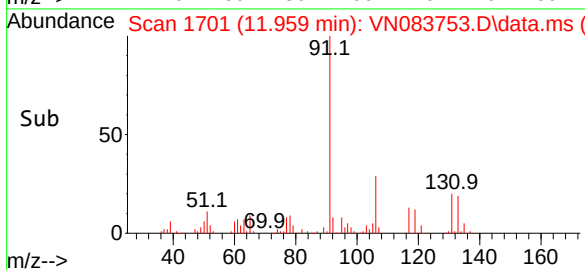
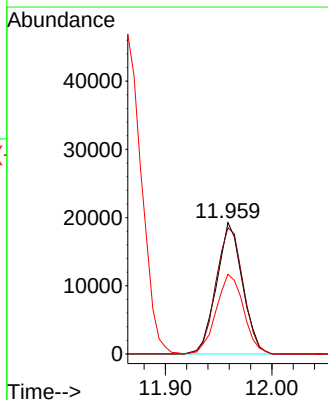
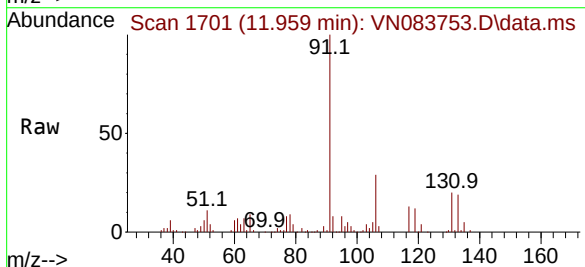
Manual Integrations
APPROVED

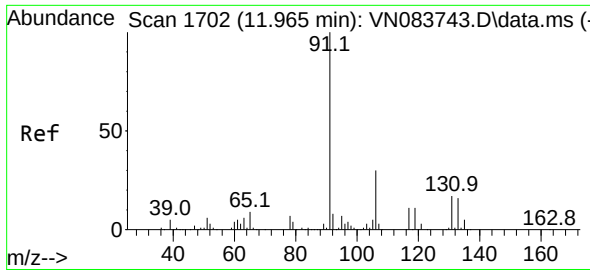
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 17.048 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:131 Resp: 32451
Ion Ratio Lower Upper
131 100
133 101.0 47.5 142.6
119 64.2 31.6 94.8





#67

Ethyl Benzene

Concen: 17.409 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBS01

Tgt Ion: 91 Resp: 169809

Ion Ratio Lower Upper

91 100

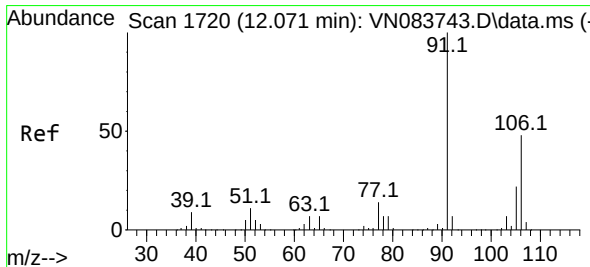
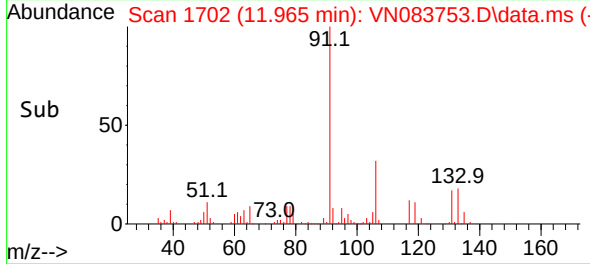
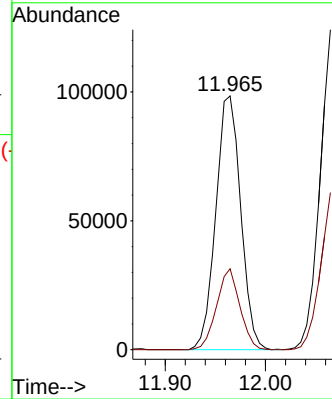
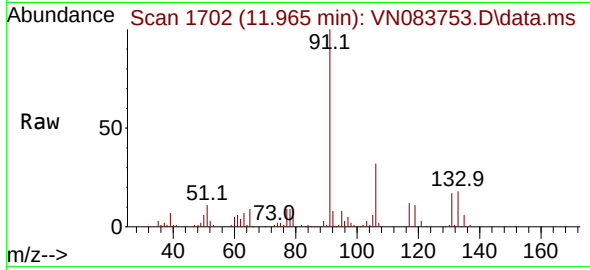
106 31.9 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#68

m/p-Xylenes

Concen: 34.947 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN083753.D

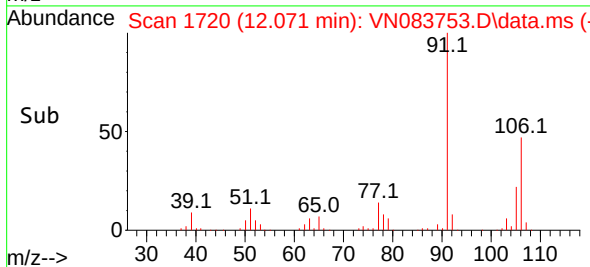
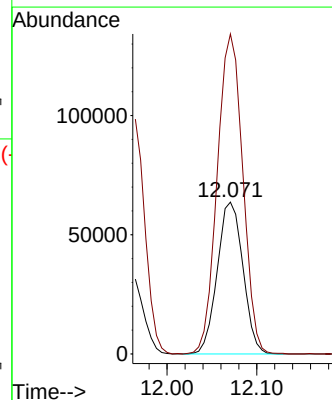
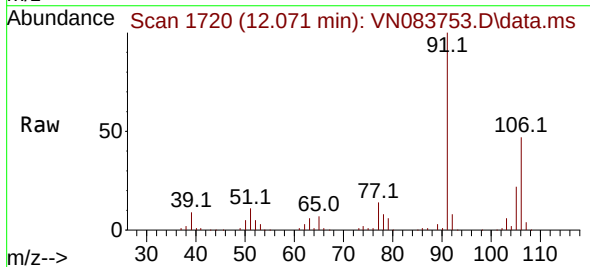
Acq: 10 Sep 2024 15:34

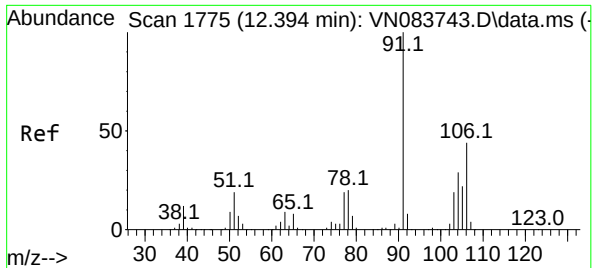
Tgt Ion:106 Resp: 126551

Ion Ratio Lower Upper

106 100

91 209.8 169.2 253.8





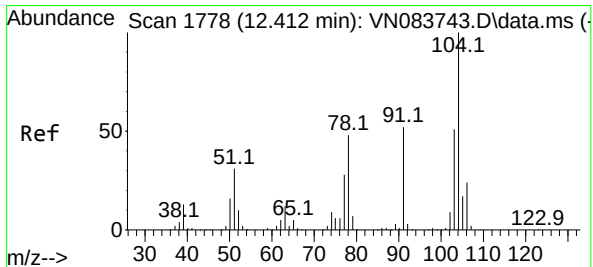
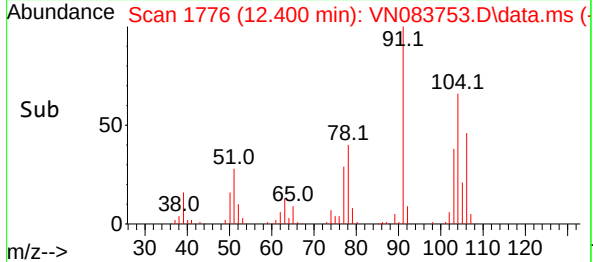
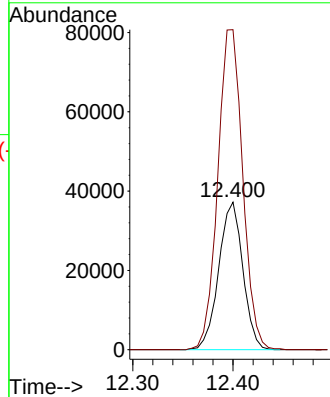
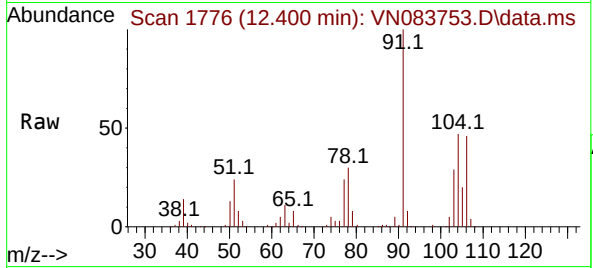
#69
o-Xylene
Concen: 17.715 ug/l
RT: 12.400 min Scan# 1775
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Tgt Ion:106 Resp: 6210
Ion Ratio Lower Upper
106 100
91 224.4 112.9 338.6

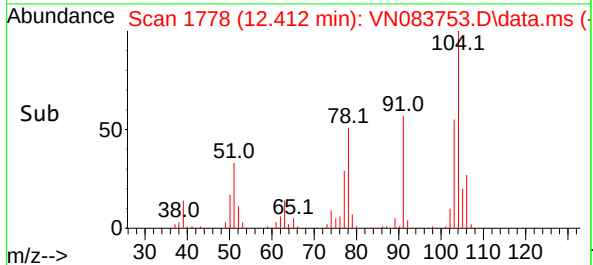
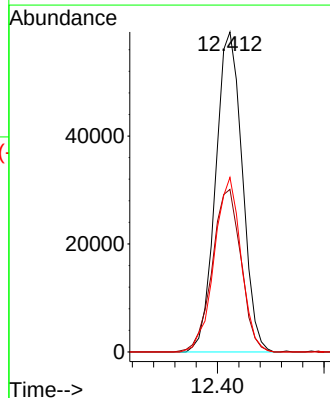
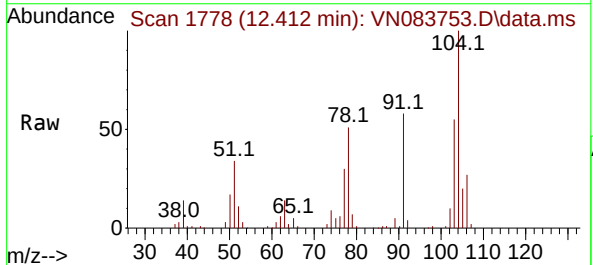
Manual Integrations
APPROVED

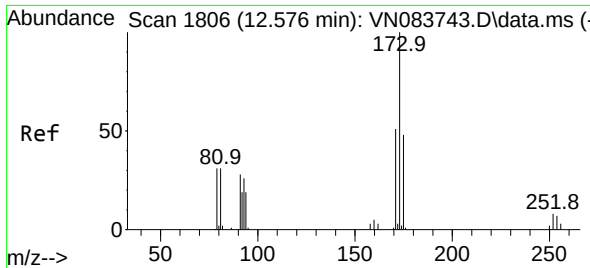
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#70
Styrene
Concen: 17.906 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

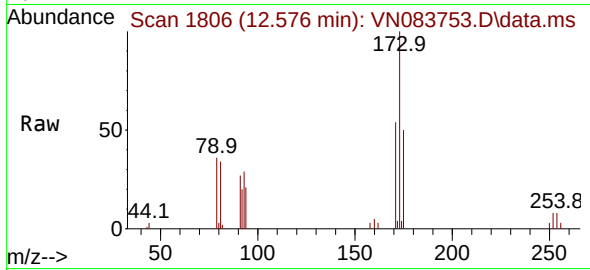
Tgt Ion:104 Resp: 103019
Ion Ratio Lower Upper
104 100
78 54.7 43.3 64.9
103 54.8 43.4 65.2





#71
Bromoform
Concen: 18.457 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

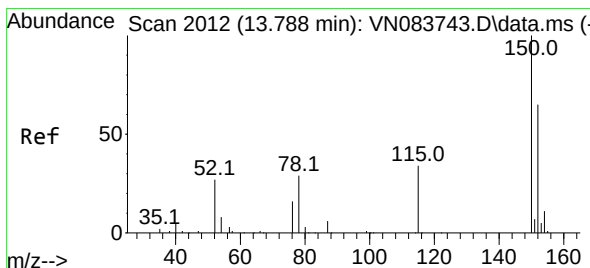
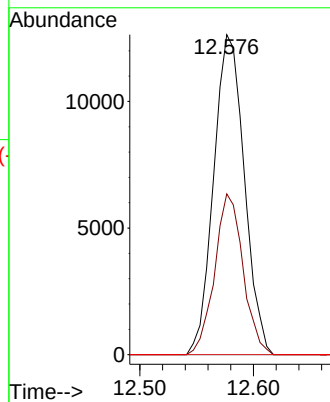
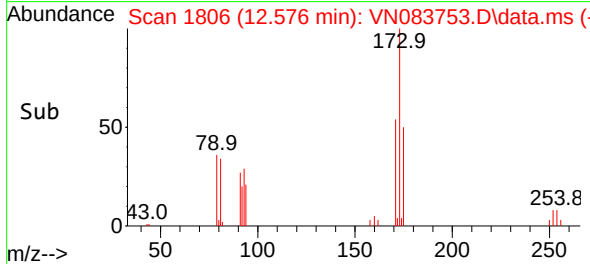
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01



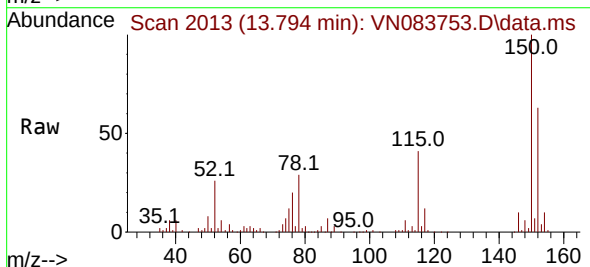
Tgt Ion:173 Resp: 23674
Ion Ratio Lower Upper
173 100
175 46.5 24.1 72.2
254 0.0 0.0 0.0

Manual Integrations
APPROVED

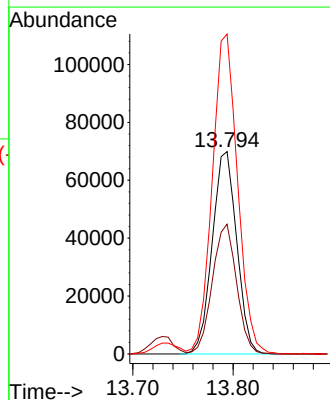
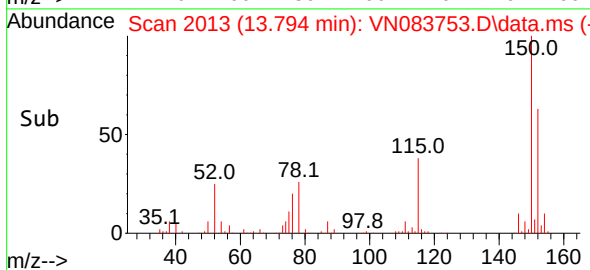
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

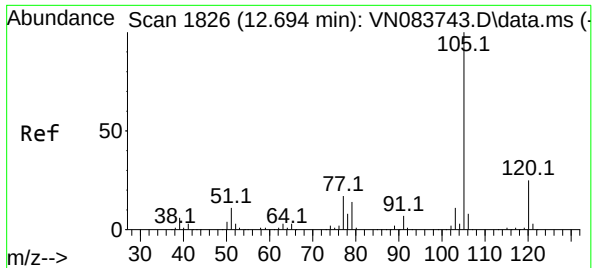


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34



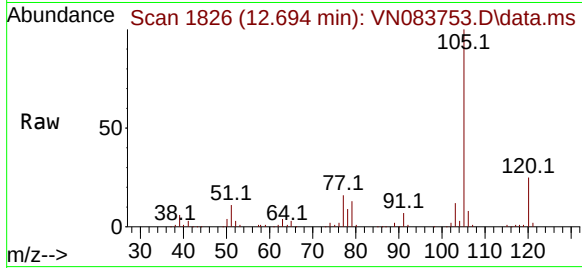
Tgt Ion:152 Resp: 118496
Ion Ratio Lower Upper
152 100
115 63.5 32.2 96.6
150 163.3 0.0 348.6





#73
Isopropylbenzene
Concen: 17.415 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

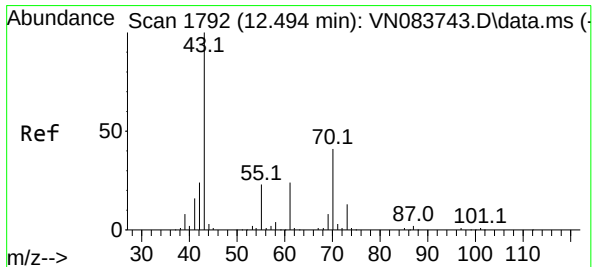
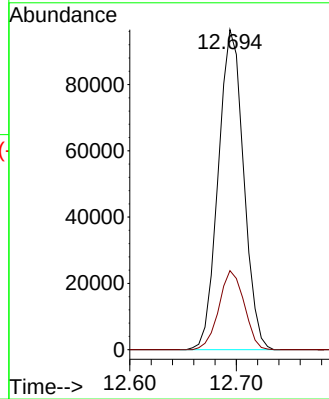
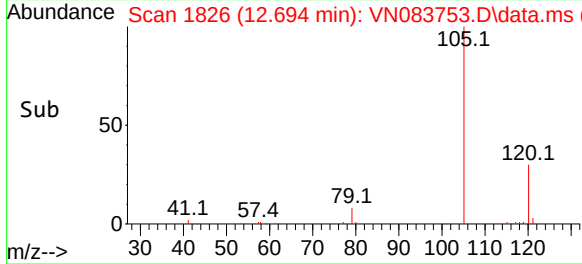
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01



Tgt Ion:105 Resp: 15965
Ion Ratio Lower Upper
105 100
120 24.6 12.6 37.8

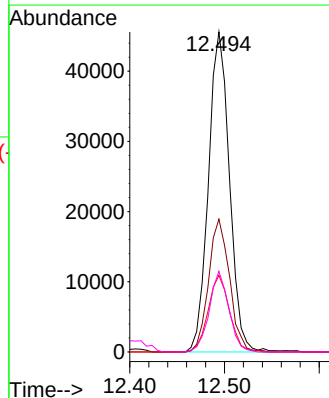
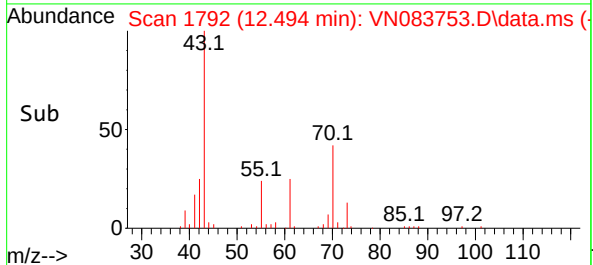
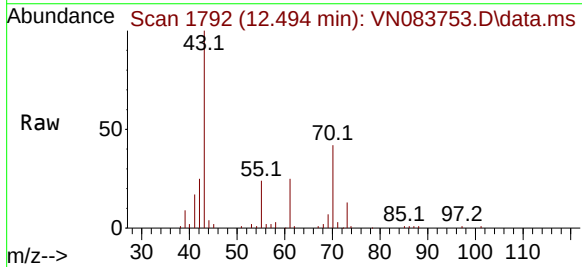
Manual Integrations
APPROVED

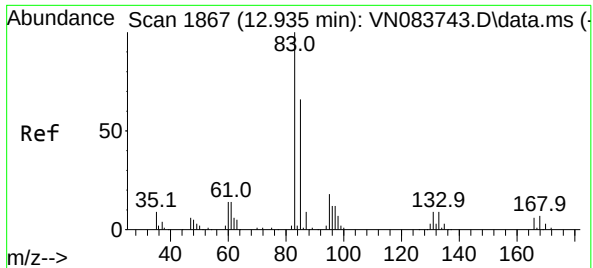
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#74
N-ethyl acetate
Concen: 17.977 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

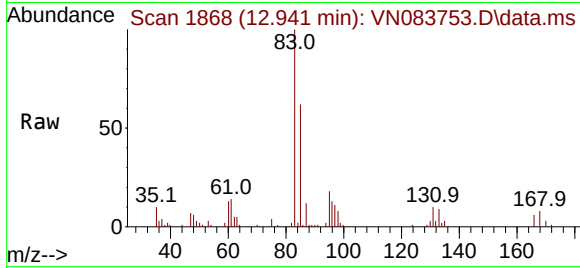
Tgt Ion: 43 Resp: 70315
Ion Ratio Lower Upper
43 100
70 41.4 34.5 51.7
55 24.2 18.6 28.0
61 23.5 19.2 28.8





#75
1,1,2,2-Tetrachloroethane
Concen: 17.390 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

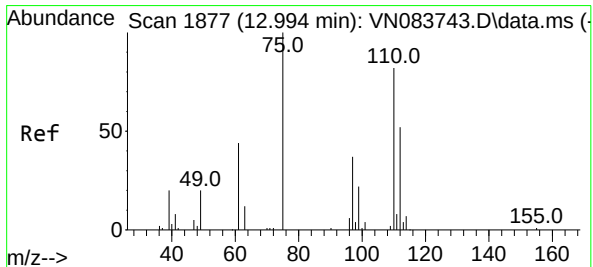
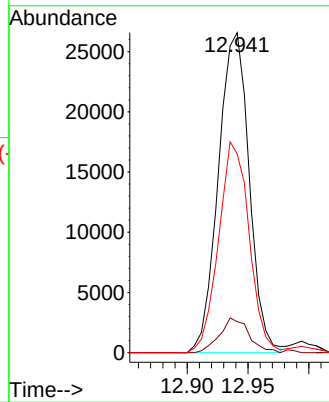
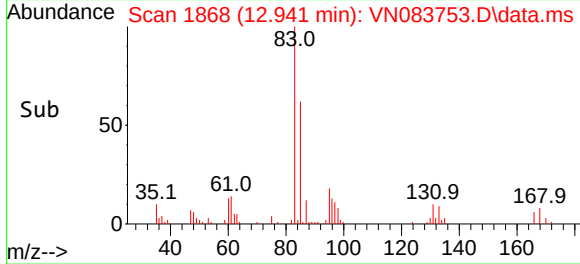
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01



Tgt Ion: 83 Resp: 4684
Ion Ratio Lower Upper
83 100
131 10.2 5.2 15.6
85 65.1 31.9 95.9

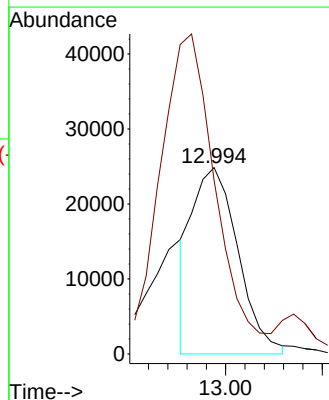
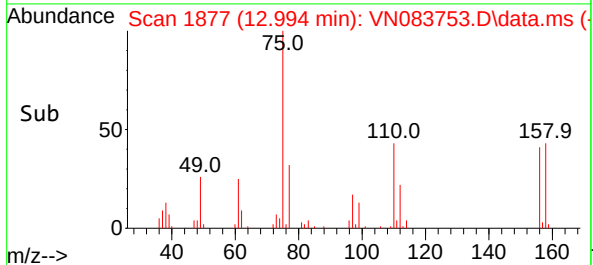
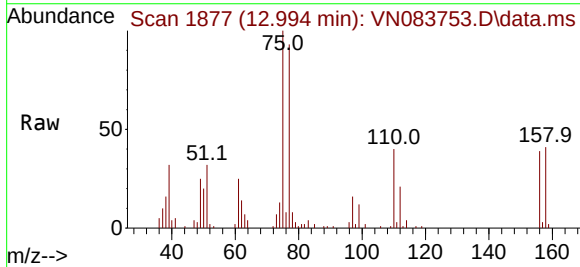
Manual Integrations
APPROVED

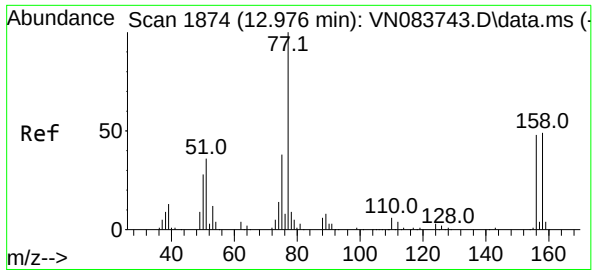
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#76
1,2,3-Trichloropropane
Concen: 17.643 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

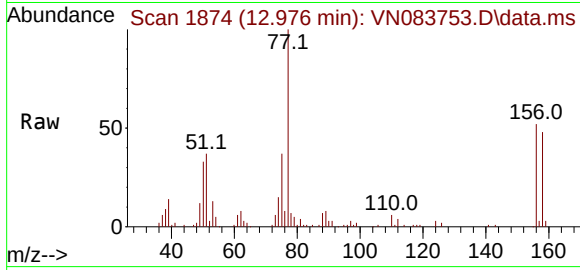
Tgt Ion: 75 Resp: 41144
Ion Ratio Lower Upper
75 100
77 209.4 95.2 285.6





#77
Bromobenzene
Concen: 17.331 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

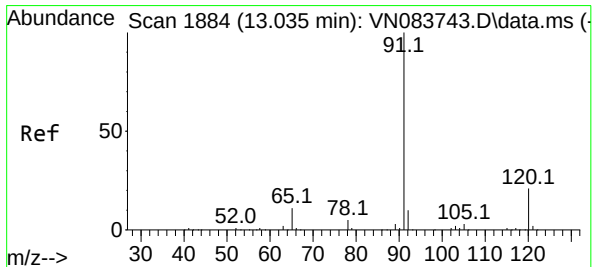
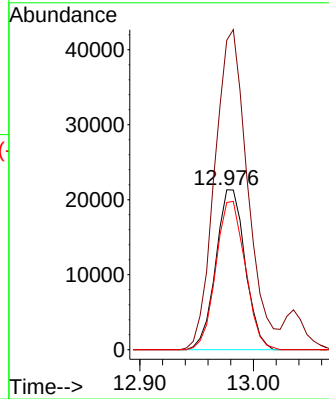
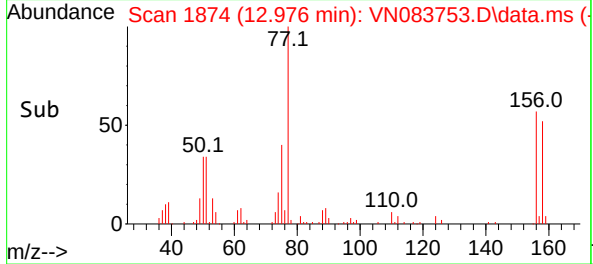
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01



Tgt Ion:156 Resp: 38249
Ion Ratio Lower Upper
156 100
77 225.3 114.3 343.1
158 92.9 48.9 146.7

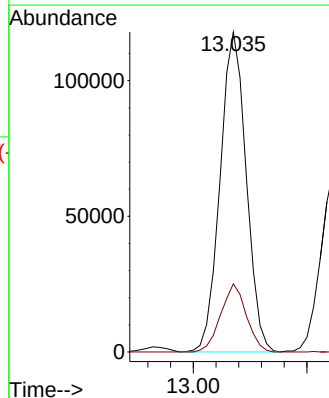
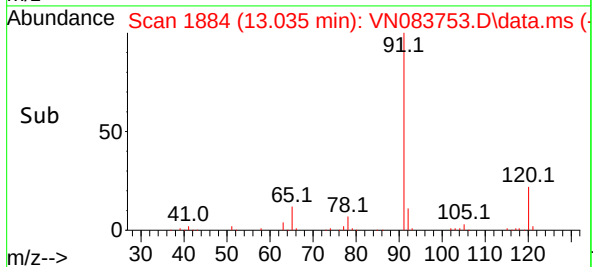
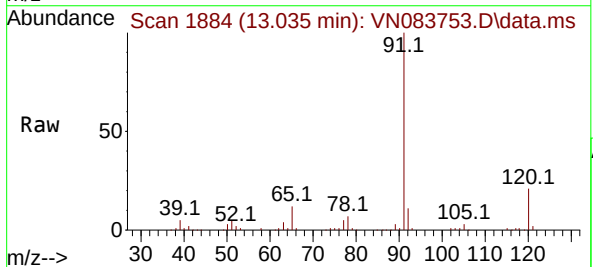
Manual Integrations
APPROVED

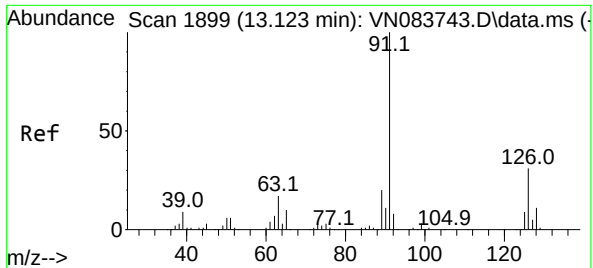
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#78
n-propylbenzene
Concen: 17.652 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 91 Resp: 188282
Ion Ratio Lower Upper
91 100
120 20.8 11.0 33.0





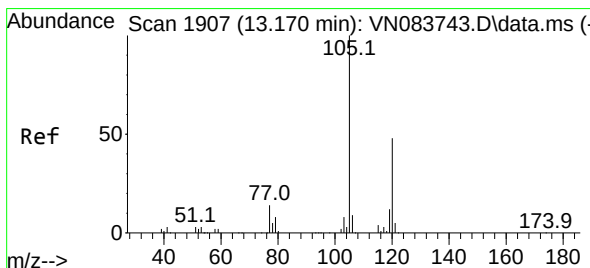
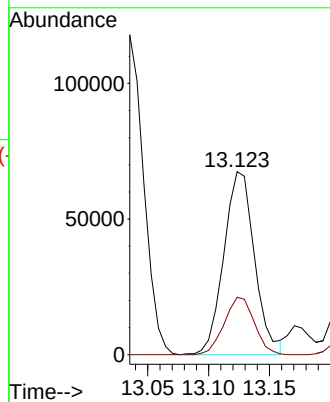
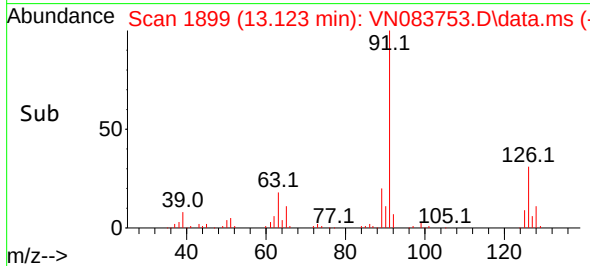
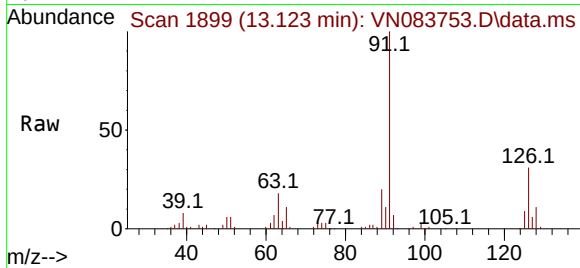
#79
2-Chlorotoluene
Concen: 17.482 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Tgt Ion: 91 Resp: 118924
Ion Ratio Lower Upper
91 100
126 30.5 15.4 46.2

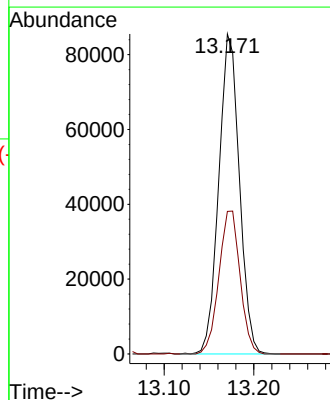
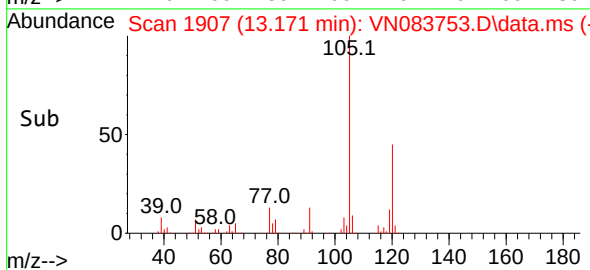
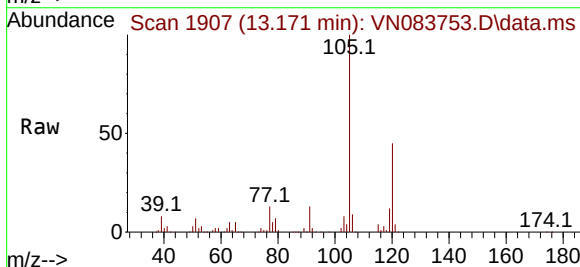
Manual Integrations
APPROVED

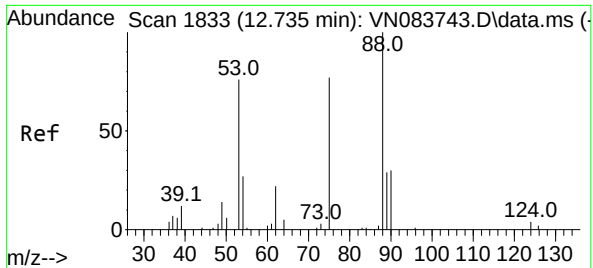
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#80
1,3,5-Trimethylbenzene
Concen: 17.614 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

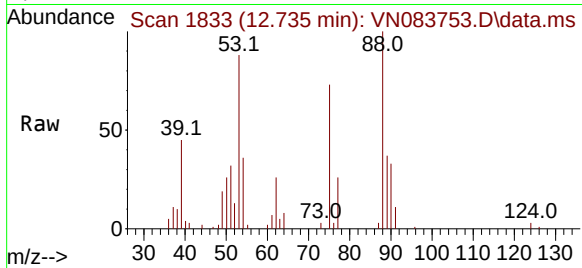
Tgt Ion:105 Resp: 136142
Ion Ratio Lower Upper
105 100
120 46.0 23.4 70.3





#81
trans-1,4-Dichloro-2-butene
Concen: 17.180 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

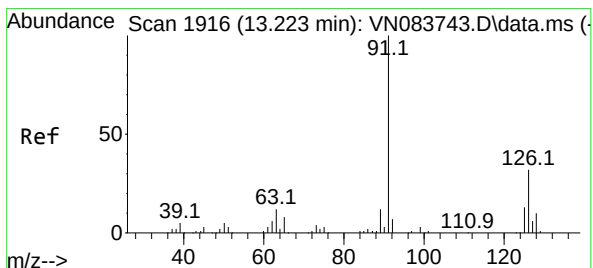
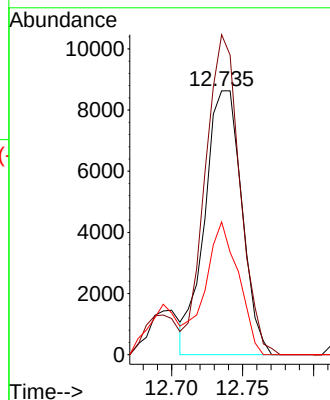
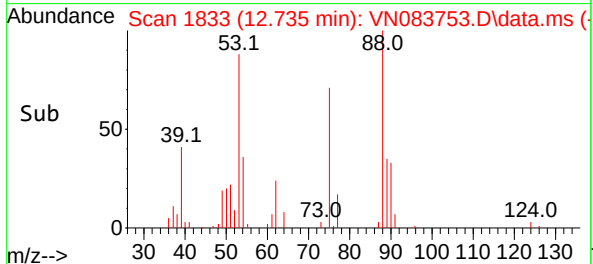
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01



Tgt Ion: 75 Resp: 15684
Ion Ratio Lower Upper
75 100
53 113.0 81.2 121.8
89 45.9 35.7 53.5

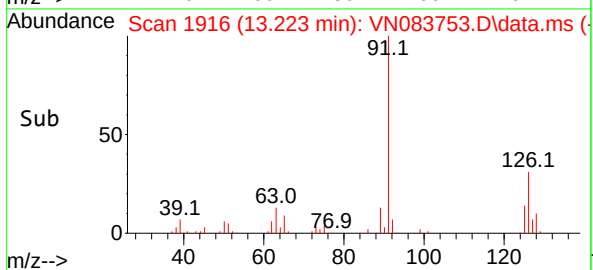
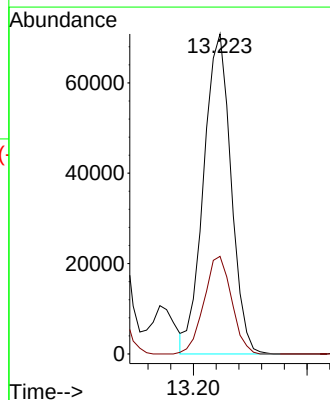
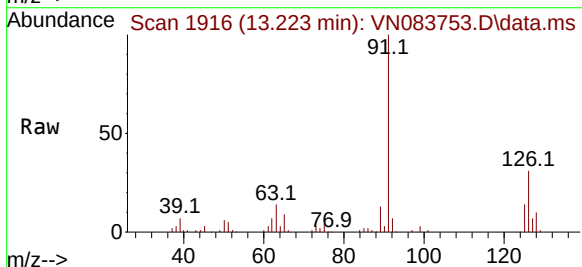
Manual Integrations
APPROVED

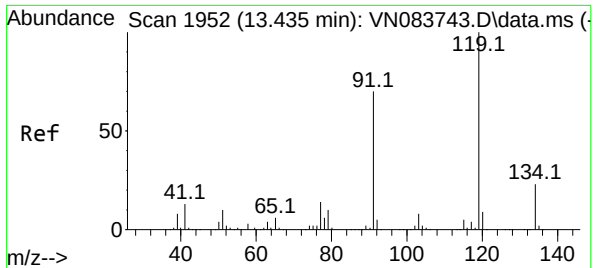
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#82
4-Chlorotoluene
Concen: 17.392 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

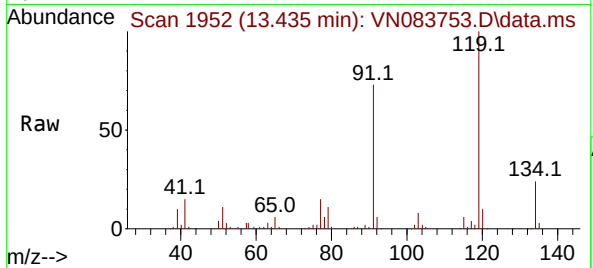
Tgt Ion: 91 Resp: 118725
Ion Ratio Lower Upper
91 100
126 30.7 15.4 46.2





#83
tert-Butylbenzene
Concen: 17.599 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

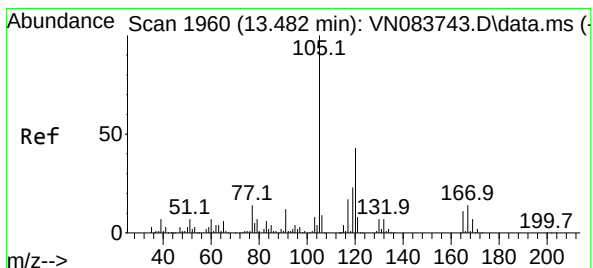
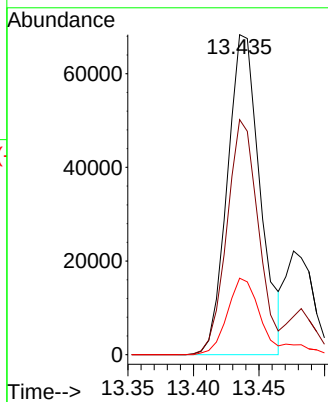
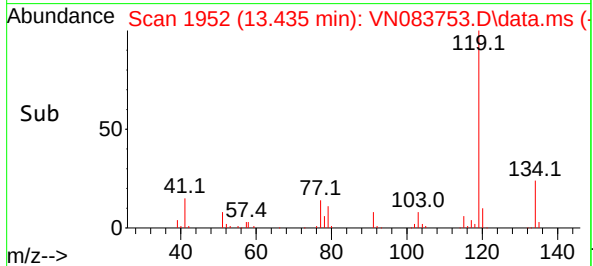
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01



Tgt Ion:119 Resp: 11900
Ion Ratio Lower Upper
119 100
91 70.7 34.5 103.6
134 25.9 12.8 38.4

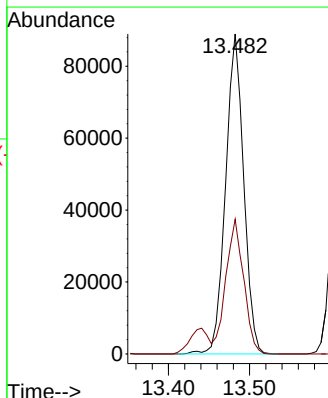
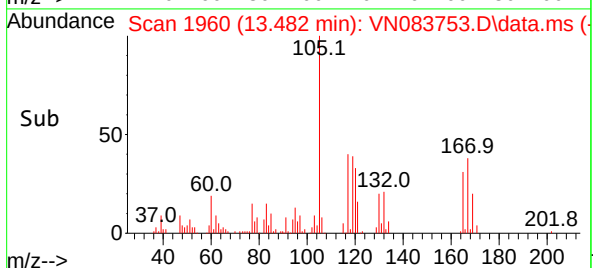
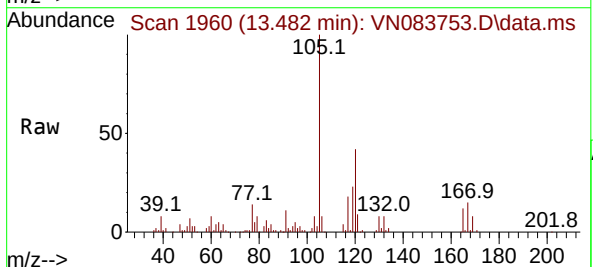
Manual Integrations
APPROVED

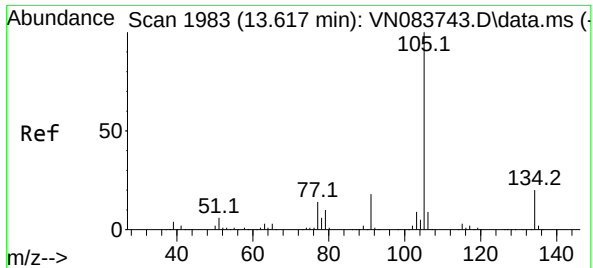
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#84
1,2,4-Trimethylbenzene
Concen: 17.725 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

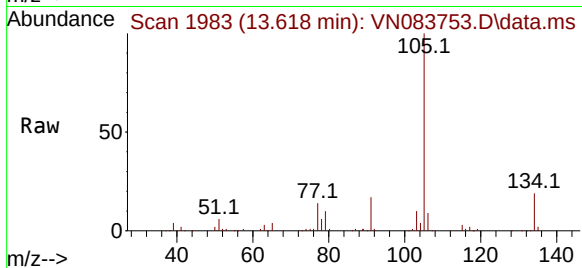
Tgt Ion:105 Resp: 137616
Ion Ratio Lower Upper
105 100
120 41.8 21.8 65.4





#85
sec-Butylbenzene
Concen: 17.515 ug/l
RT: 13.618 min Scan# 1983
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

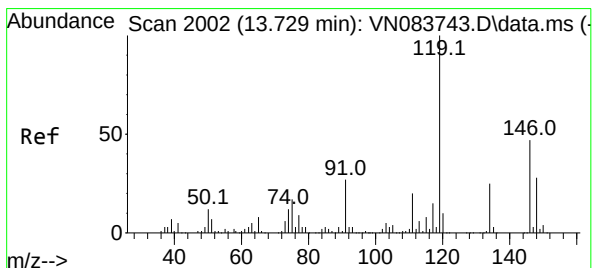
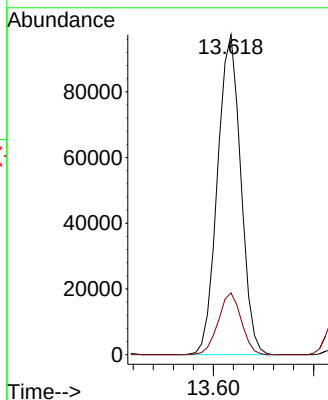
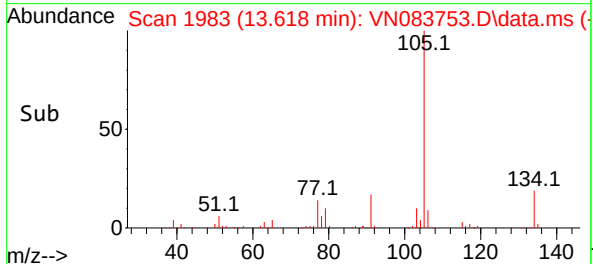
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01



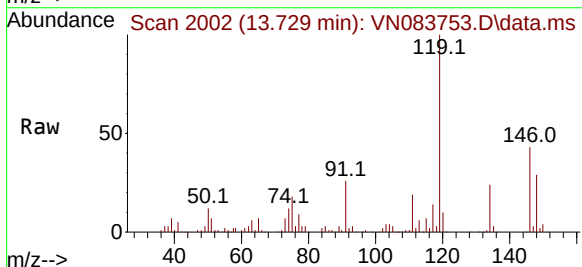
Tgt Ion:105 Resp: 15707
Ion Ratio Lower Upper
105 100
134 19.1 9.7 29.1

Manual Integrations
APPROVED

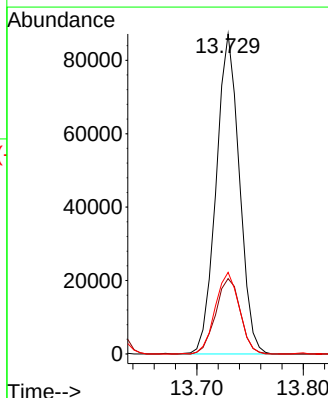
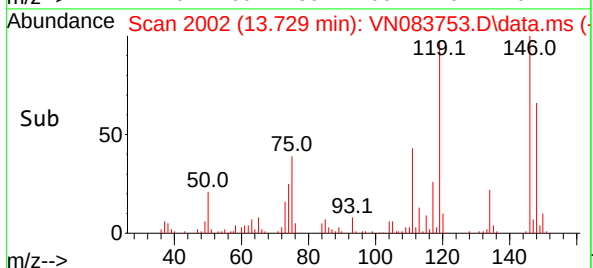
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

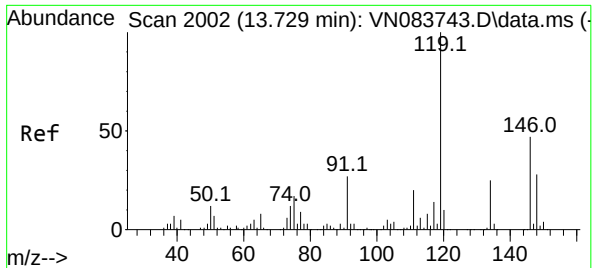


#86
p-Isopropyltoluene
Concen: 17.532 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34



Tgt Ion:119 Resp: 131799
Ion Ratio Lower Upper
119 100
134 24.9 12.8 38.3
91 26.4 12.9 38.7





#87

1,3-Dichlorobenzene

Concen: 16.277 ug/l

RT: 13.735 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBS01

Tgt Ion:146 Resp: 6778

Ion Ratio Lower Upper

146 100

111 43.8 21.7 65.1

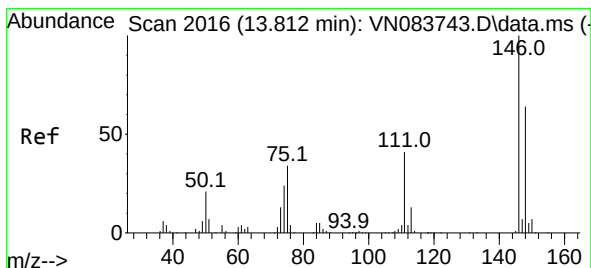
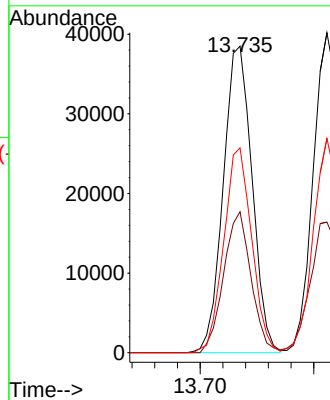
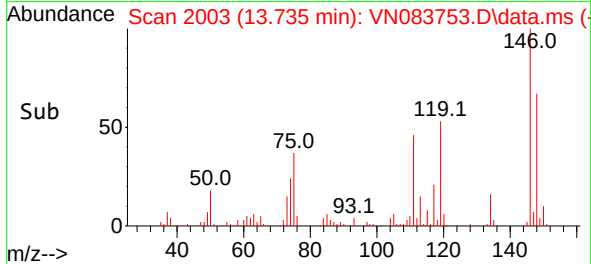
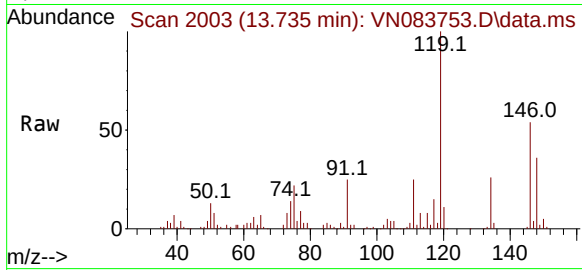
148 64.8 31.7 95.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#88

1,4-Dichlorobenzene

Concen: 16.035 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

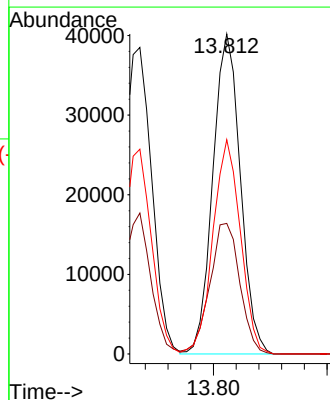
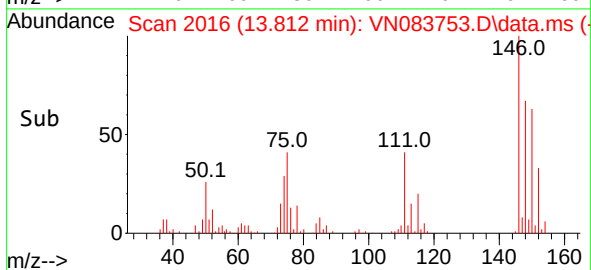
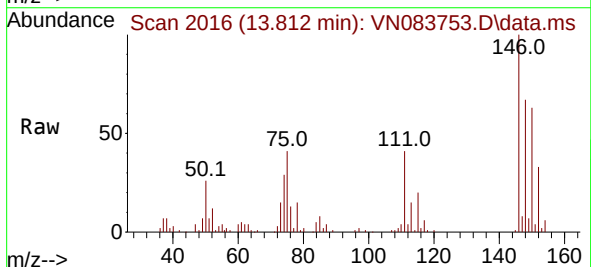
Tgt Ion:146 Resp: 67622

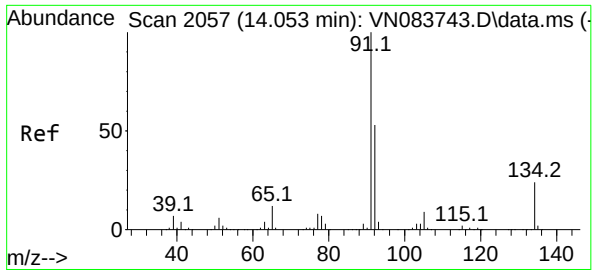
Ion Ratio Lower Upper

146 100

111 44.5 21.3 64.0

148 67.0 32.0 96.2





#89

n-Butylbenzene

Concen: 16.544 ug/l

RT: 14.059 min Scan# 2057

Delta R.T. 0.006 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBS01

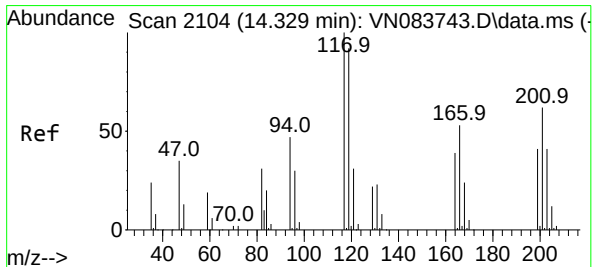
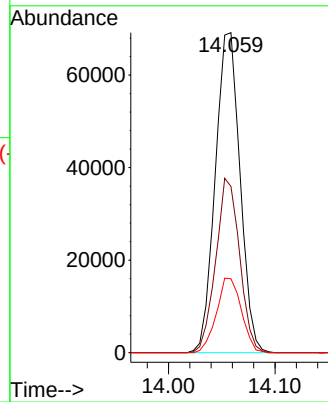
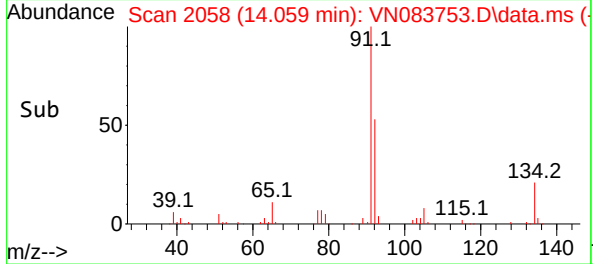
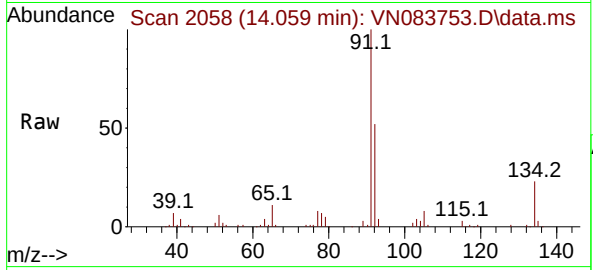
Tgt Ion:	91	Resp:	11166
Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.7	80.1
134	23.5	12.2	36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#90

Hexachloroethane

Concen: 17.481 ug/l

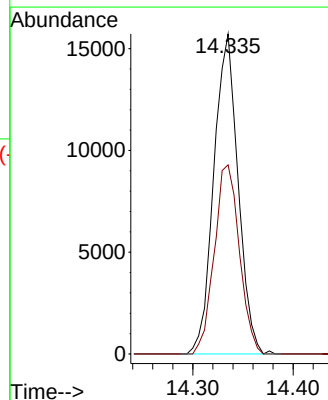
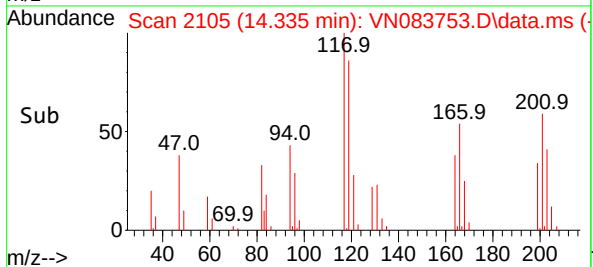
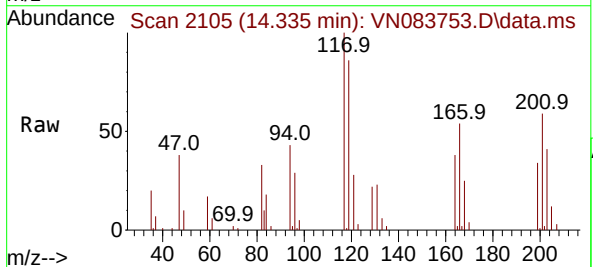
RT: 14.335 min Scan# 2105

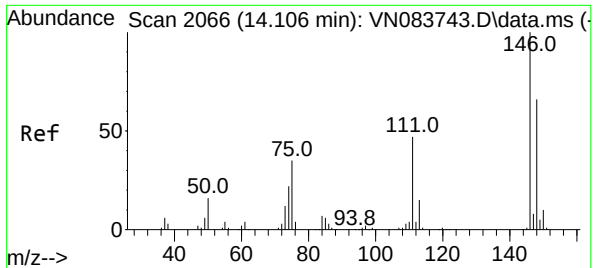
Delta R.T. 0.006 min

Lab File: VN083753.D

Acq: 10 Sep 2024 15:34

Tgt Ion:	117	Resp:	26417
Ion	Ratio	Lower	Upper
117	100		
201	61.0	32.8	98.3





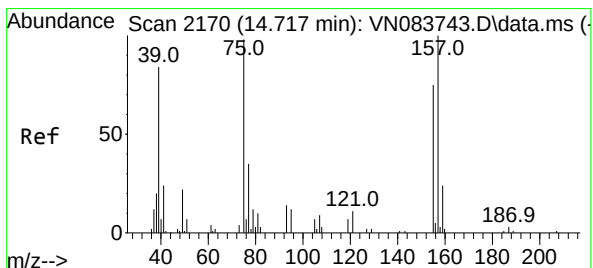
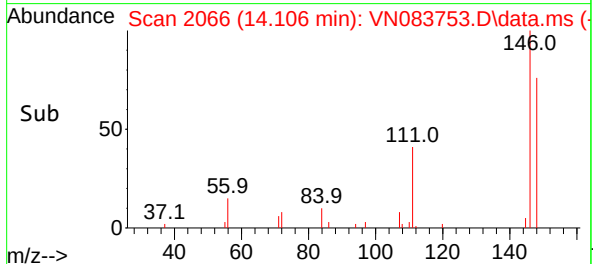
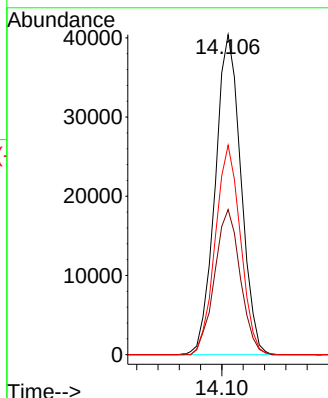
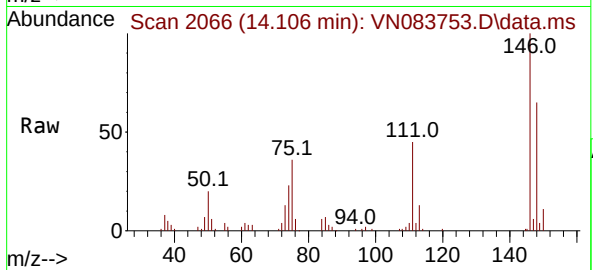
#91
1,2-Dichlorobenzene
Concen: 16.853 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Tgt Ion:146 Resp: 67739
Ion Ratio Lower Upper
146 100
111 45.3 22.8 68.3
148 64.1 32.1 96.5

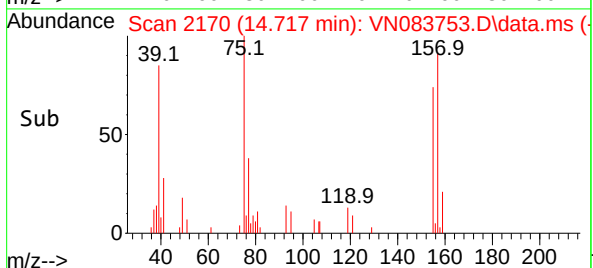
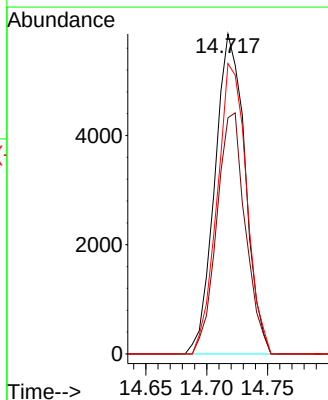
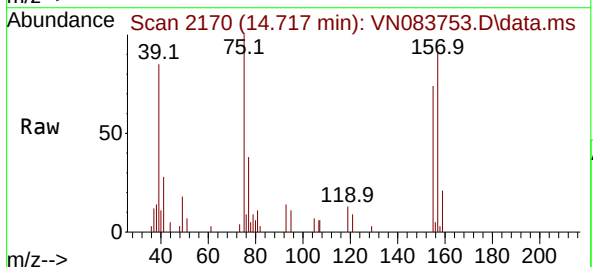
Manual Integrations
APPROVED

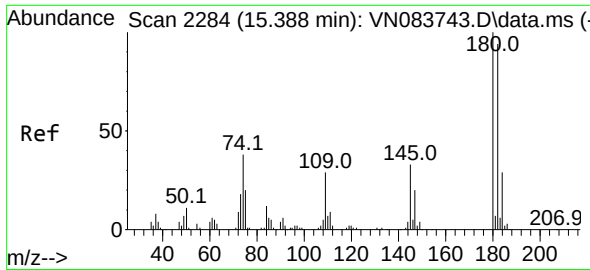
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 18.890 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

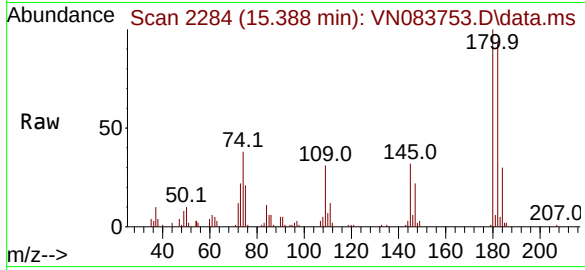
Tgt Ion: 75 Resp: 10143
Ion Ratio Lower Upper
75 100
155 71.3 35.9 107.7
157 88.1 47.5 142.5





#93
1,2,4-Trichlorobenzene
Concen: 16.043 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

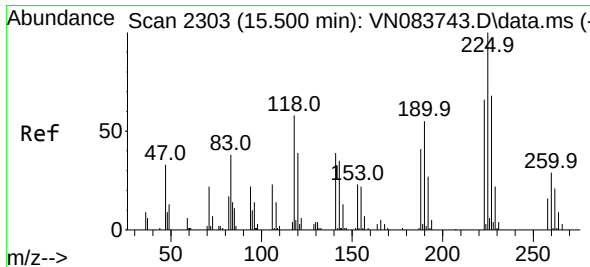
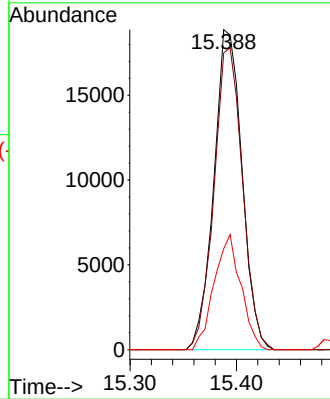
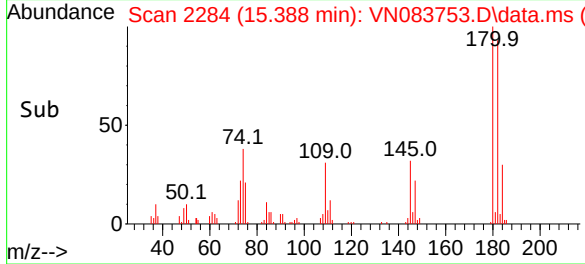
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01



Tgt Ion:180 Resp: 3460
Ion Ratio Lower Upper
180 100
182 95.3 48.1 144.3
145 34.2 16.9 50.7

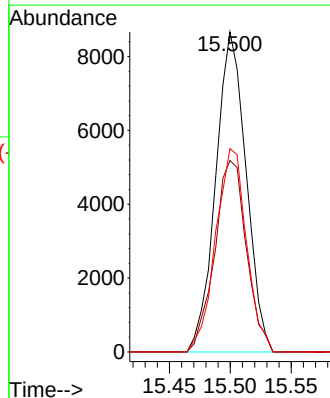
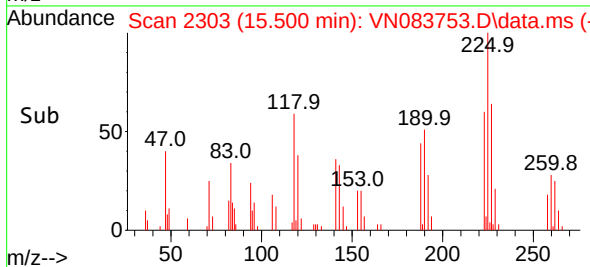
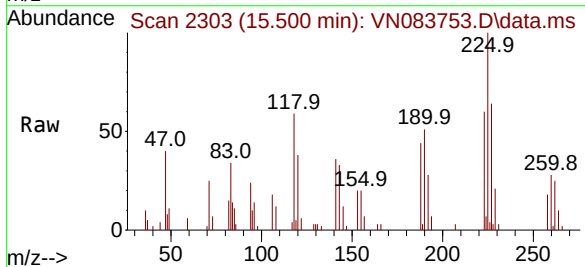
Manual Integrations
APPROVED

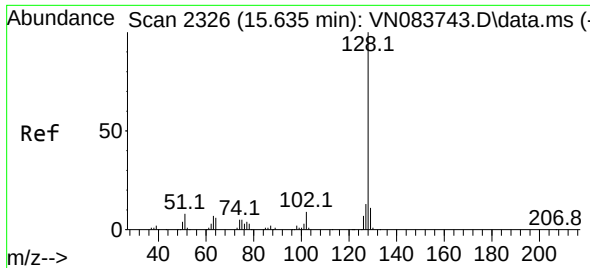
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#94
Hexachlorobutadiene
Concen: 16.408 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

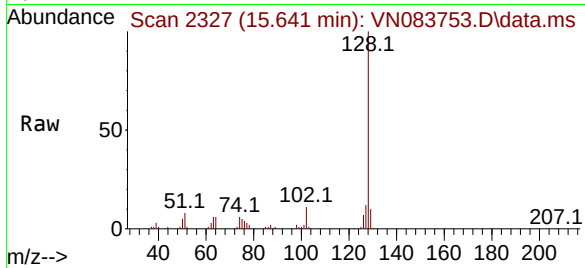
Tgt Ion:225 Resp: 15029
Ion Ratio Lower Upper
225 100
223 62.7 31.9 95.5
227 64.6 32.0 96.2





#95
Naphthalene
Concen: 17.068 ug/l
RT: 15.641 min Scan# 2326
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

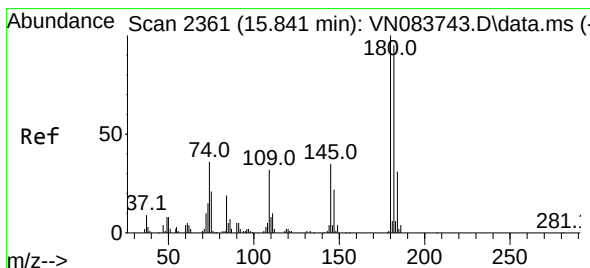
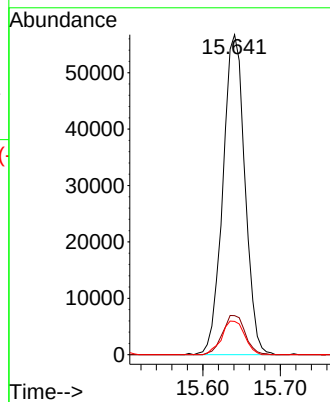
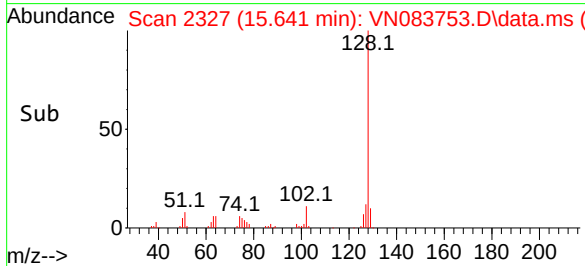
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01



Tgt Ion:128 Resp: 111998
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 10.9 8.7 13.1

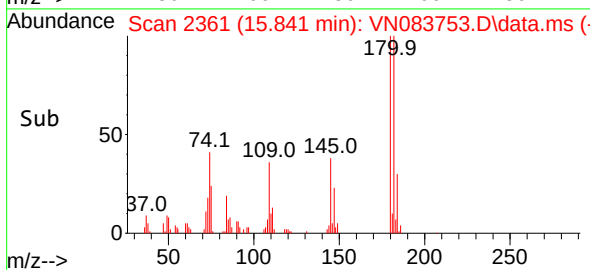
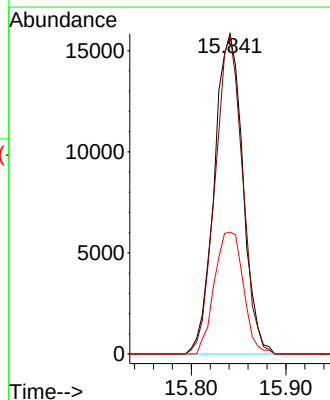
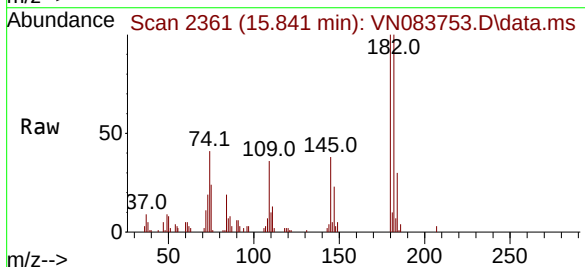
Manual Integrations
APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#96
1,2,3-Trichlorobenzene
Concen: 16.061 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:180 Resp: 33107
Ion Ratio Lower Upper
180 100
182 95.5 47.1 141.4
145 38.6 17.8 53.5



Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0911WBS01	SDG No.:	P3845
Lab Sample ID:	VN0911WBS01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083799.D	1		09/11/24 16:45	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.3		0.21	1.00	ug/L
74-87-3	Chloromethane	18.5		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.4		0.34	1.00	ug/L
141-78-6	Ethyl Acetate	21.2		0.38	1.00	ug/L
108-21-4	Isopropyl Acetate	23.8		0.29	1.00	ug/L
74-83-9	Bromomethane	19.4		1.40	5.00	ug/L
75-00-3	Chloroethane	18.9		0.56	1.00	ug/L
109-99-9	Tetrahydrofuran	100		1.20	5.00	ug/L
75-69-4	Trichlorofluoromethane	19.0		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.4		0.25	1.00	ug/L
75-65-0	Tert butyl alcohol	100		5.60	25.0	ug/L
60-29-7	Diethyl Ether	19.1		0.20	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.7		0.26	1.00	ug/L
107-02-8	Acrolein	89.8		6.70	25.0	ug/L
107-13-1	Acrylonitrile	100		0.90	5.00	ug/L
67-64-1	Acetone	90.0		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.3		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.3		0.16	1.00	ug/L
79-20-9	Methyl Acetate	21.4		0.60	1.00	ug/L
75-09-2	Methylene Chloride	19.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.3		0.25	1.00	ug/L
108-05-4	Vinyl Acetate	100		0.71	5.00	ug/L
75-34-3	1,1-Dichloroethane	19.0		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.4		1.60	5.00	ug/L
78-93-3	2-Butanone	97.8		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.9		0.25	1.00	ug/L
594-20-7	2,2-Dichloropropane	18.6		0.31	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.1		0.25	1.00	ug/L
74-97-5	Bromochloromethane	20.8		0.18	1.00	ug/L
67-66-3	Chloroform	18.9		0.26	1.00	ug/L

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Waste Water PT		Date Received:	
Client Sample ID:	VN0911WBS01		SDG No.:	P3845
Lab Sample ID:	VN0911WBS01		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:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083799.D	1		09/11/24 16:45	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
71-55-6	1,1,1-Trichloroethane	18.8		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	18.7		0.19	1.00	ug/L
563-58-6	1,1-Dichloropropene	17.7		0.18	1.00	ug/L
71-43-2	Benzene	18.8		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.5		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.5		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.8		0.19	1.00	ug/L
74-95-3	Dibromomethane	19.3		0.23	1.00	ug/L
75-27-4	Bromodichloromethane	19.3		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	5.00	ug/L
108-88-3	Toluene	19.1		0.18	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.4		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.9		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.8		0.21	1.00	ug/L
142-28-9	1,3-Dichloropropane	20.1		0.17	1.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	110		1.80	5.00	ug/L
591-78-6	2-Hexanone	100		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	19.7		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.8		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	17.4		0.25	1.00	ug/L
108-90-7	Chlorobenzene	18.1		0.13	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	19.0		0.21	1.00	ug/L
100-41-4	Ethyl Benzene	18.6		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	36.2		0.31	2.00	ug/L
1330-20-7	Total Xylenes	54.5		0.45	3.00	ug/L
95-47-6	o-Xylene	18.3		0.14	1.00	ug/L
100-42-5	Styrene	19.1		0.16	1.00	ug/L
75-25-2	Bromoform	20.2		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	17.9		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.8		0.27	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	18.7		0.39	1.00	ug/L

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Waste Water PT		Date Received:	
Client Sample ID:	VN0911WBS01		SDG No.:	P3845
Lab Sample ID:	VN0911WBS01		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:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083799.D	1		09/11/24 16:45	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
108-86-1	Bromobenzene	17.3		0.26	1.00	ug/L
103-65-1	n-propylbenzene	17.5		0.14	1.00	ug/L
95-49-8	2-Chlorotoluene	18.1		0.16	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	18.3		0.18	1.00	ug/L
106-43-4	4-Chlorotoluene	17.4		0.18	1.00	ug/L
98-06-6	tert-Butylbenzene	18.3		0.17	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	18.4		0.18	1.00	ug/L
135-98-8	sec-Butylbenzene	18.0		0.17	1.00	ug/L
99-87-6	p-Isopropyltoluene	17.6		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	16.7		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	16.8		0.27	1.00	ug/L
104-51-8	n-Butylbenzene	16.3		0.22	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.9		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.2		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.3		0.42	1.00	ug/L
87-68-3	Hexachlorobutadiene	17.3		0.31	1.00	ug/L
91-20-3	Naphthalene	17.5		0.59	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.1		0.51	1.00	ug/L
628-63-7	N-amyl acetate	19.7		0.23	1.00	ug/L
74-88-4	Methyl Iodide	18.8		1.20	5.00	ug/L
107-05-1	Allyl chloride	19.1		0.24	1.00	ug/L
126-98-7	Methacrylonitrile	19.5		0.31	1.00	ug/L
97-63-2	Ethyl methacrylate	20.6		0.16	1.00	ug/L
108-20-3	Diisopropyl ether	19.5		0.16	1.00	ug/L
123-91-1	1,4-Dioxane	420		6.50	100	ug/L
80-62-6	Methyl methacrylate	20.9		0.32	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.6		74 - 125	101%	SPK: 50
1868-53-7	Dibromofluoromethane	48.7		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	51.5		86 - 113	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		77 - 121	94%	SPK: 50

INTERNAL STANDARDS

Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	
Project:	NJ Waste Water PT			Date Received:	
Client Sample ID:	VN0911WBS01			SDG No.:	P3845
Lab Sample ID:	VN0911WBS01			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:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083799.D	1		09/11/24 16:45	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	149000	8.224			
540-36-3	1,4-Difluorobenzene	261000	9.1			
3114-55-4	Chlorobenzene-d5	227000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	112000	13.794			
67-72-1	Hexachloroethane					

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_N\Data\VN091124\
 Data File : VN083799.D
 Acq On : 11 Sep 2024 16:45
 Operator : JC\MD
 Sample : VN0911WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0911WBS01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/12/2024
 Supervised By :Mahesh Dadoda 09/12/2024

Quant Time: Sep 12 02:09:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 15:18:56 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	149250	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	261095	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	227203	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	111791	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	113952	50.635	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 101.260%	
35) Dibromofluoromethane	8.165	113	81366	48.679	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 97.360%	
50) Toluene-d8	10.565	98	297437	51.473	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 102.940%	
62) 4-Bromofluorobenzene	12.847	95	112119	47.029	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 94.060%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	33439	19.292	ug/l	99
3) Chloromethane	2.359	50	34843	18.523	ug/l	98
4) Vinyl Chloride	2.512	62	34893	18.366	ug/l	96
5) Bromomethane	2.901	94	21195	19.430	ug/l	98
6) Chloroethane	3.065	64	25216	18.921	ug/l	96
7) Trichlorofluoromethane	3.465	101	61112	18.950	ug/l	99
8) Diethyl Ether	3.959	74	20640	19.093	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.359	101	33133	19.384	ug/l	96
10) Methyl Iodide	4.577	142	40902	18.815	ug/l	89
11) Tert butyl alcohol	5.536	59	30582	101.480	ug/l #	84
12) 1,1-Dichloroethene	4.324	96	30229	18.726	ug/l	97
13) Acrolein	4.177	56	26709	89.826	ug/l	99
14) Allyl chloride	5.012	41	55067	19.144	ug/l	98
15) Acrylonitrile	5.718	53	83375	101.732	ug/l	99
16) Acetone	4.430	43	81193	89.998	ug/l	96
17) Carbon Disulfide	4.694	76	78324	17.345	ug/l	98
18) Methyl Acetate	5.024	43	42293	21.440	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	112571	19.271	ug/l	99
20) Methylene Chloride	5.265	84	35197	19.065	ug/l	95
21) trans-1,2-Dichloroethene	5.777	96	31574	18.251	ug/l	96
22) Diisopropyl ether	6.671	45	115593	19.522	ug/l	97
23) Vinyl Acetate	6.600	43	440585	101.605	ug/l	99
24) 1,1-Dichloroethane	6.559	63	64942	19.037	ug/l	98
25) 2-Butanone	7.483	43	115948	97.785	ug/l	99
26) 2,2-Dichloropropane	7.488	77	58288	18.553	ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	39161	19.068	ug/l	98
28) Bromochloromethane	7.812	49	29864	20.788	ug/l	95
29) Tetrahydrofuran	7.835	42	71490	101.965	ug/l	100
30) Chloroform	7.965	83	68347	18.872	ug/l	96
31) Cyclohexane	8.253	56	59693	18.353	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	62636	18.809	ug/l	98
36) 1,1-Dichloropropene	8.365	75	44477	17.679	ug/l	100
37) Ethyl Acetate	7.559	43	48502	21.239	ug/l	98
38) Carbon Tetrachloride	8.359	117	54045	18.935	ug/l	98
39) Methylcyclohexane	9.600	83	53487	18.678	ug/l	96
40) Benzene	8.600	78	142354	18.799	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
 Data File : VN083799.D
 Acq On : 11 Sep 2024 16:45
 Operator : JC\MD
 Sample : VN0911WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0911WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/12/2024
 Supervised By : Mahesh Dadoda 09/12/2024

Quant Time: Sep 12 02:09:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 15:18:56 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	26318	19.485	ug/l	98
42) 1,2-Dichloroethane	8.671	62	57918	20.469	ug/l	98
43) Isopropyl Acetate	8.688	43	98330	23.761	ug/l	94
44) Trichloroethene	9.347	130	32354	18.450	ug/l	98
45) 1,2-Dichloropropane	9.618	63	36229	19.795	ug/l	97
46) Dibromomethane	9.706	93	24752	19.308	ug/l	99
47) Bromodichloromethane	9.888	83	53597	19.319	ug/l	98
48) Methyl methacrylate	9.682	41	40956	20.860	ug/l	96
49) 1,4-Dioxane	9.700	88	13673	423.334	ug/l #	99
51) 4-Methyl-2-Pentanone	10.447	43	237950	105.630	ug/l	96
52) Toluene	10.629	92	88404	19.086	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	51842	18.435	ug/l	95
54) cis-1,3-Dichloropropene	10.312	75	55765	18.878	ug/l	91
55) 1,1,2-Trichloroethane	11.018	97	32445	18.763	ug/l	96
56) Ethyl methacrylate	10.871	69	54822	20.606	ug/l	98
57) 1,3-Dichloropropane	11.165	76	59611	20.058	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	102730	107.165	ug/l	96
59) 2-Hexanone	11.194	43	173745	104.267	ug/l	97
60) Dibromochloromethane	11.359	129	38100	19.688	ug/l	95
61) 1,2-Dibromoethane	11.471	107	32500	18.846	ug/l	98
64) Tetrachloroethene	11.106	164	26310	17.413	ug/l	96
65) Chlorobenzene	11.888	112	91213	18.063	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	33178	18.953	ug/l	99
67) Ethyl Benzene	11.965	91	166588	18.571	ug/l	99
68) m/p-Xylenes	12.070	106	120699	36.242	ug/l	98
69) o-Xylene	12.400	106	59058	18.318	ug/l	97
70) Styrene	12.412	104	101275	19.140	ug/l	99
71) Bromoform	12.576	173	23799	20.175	ug/l #	99
73) Isopropylbenzene	12.694	105	154812	17.900	ug/l	99
74) N-amyl acetate	12.494	43	72864	19.746	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	47677	18.762	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	42204m	18.710	ug/l	
77) Bromobenzene	12.982	156	36106	17.343	ug/l	97
78) n-propylbenzene	13.035	91	176000	17.490	ug/l	100
79) 2-Chlorotoluene	13.123	91	116341	18.128	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	133503	18.309	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	15414	17.897	ug/l	89
82) 4-Chlorotoluene	13.217	91	112039	17.397	ug/l	98
83) tert-Butylbenzene	13.435	119	116622	18.281	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	134697	18.389	ug/l	99
85) sec-Butylbenzene	13.617	105	152251	17.995	ug/l	100
86) p-Isopropyltoluene	13.729	119	124511	17.556	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	65668	16.714	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	66959	16.831	ug/l	98
89) n-Butylbenzene	14.053	91	103956	16.325	ug/l	99
90) Hexachloroethane	14.335	117	25026	17.554	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	67694	17.852	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10212	20.159	ug/l	96
93) 1,2,4-Trichlorobenzene	15.394	180	33104	16.269	ug/l	98
94) Hexachlorobutadiene	15.500	225	14982	17.337	ug/l	99
95) Naphthalene	15.641	128	108187	17.476	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	31271	16.080	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083799.D
Acq On : 11 Sep 2024 16:45
Operator : JC\MD
Sample : VN0911WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

Quant Time: Sep 12 02:09:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration

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

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

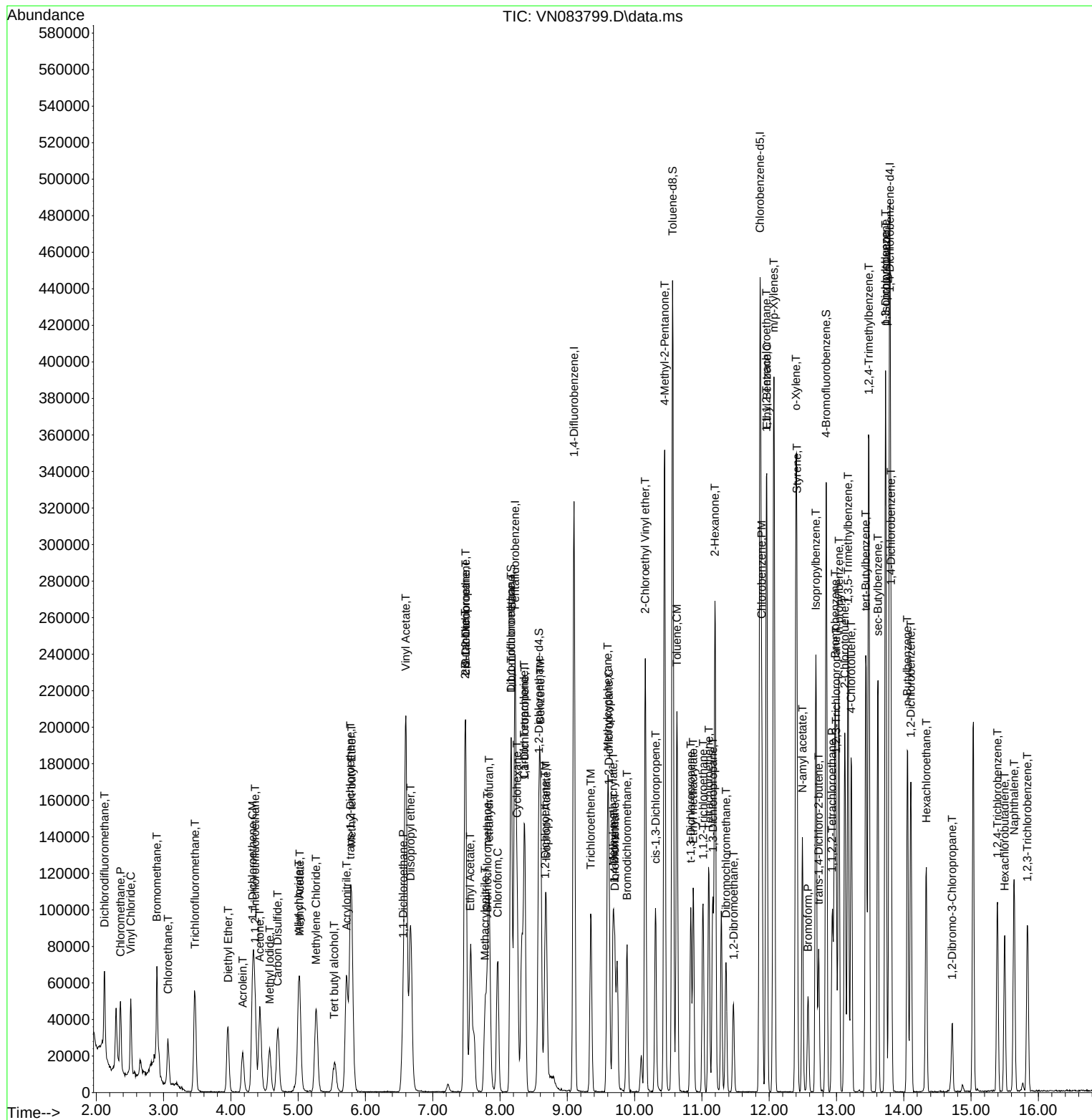
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Data File : VN083799.D
Acq On : 11 Sep 2024 16:45
Operator : JC\MD
Sample : VN0911WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

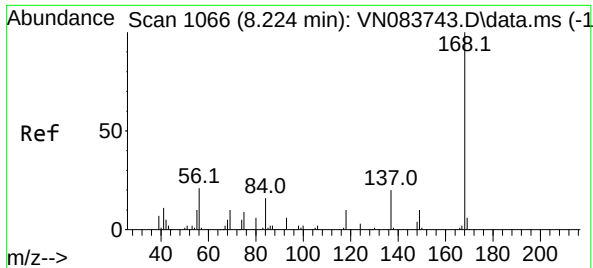
Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Manual Integrations

Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

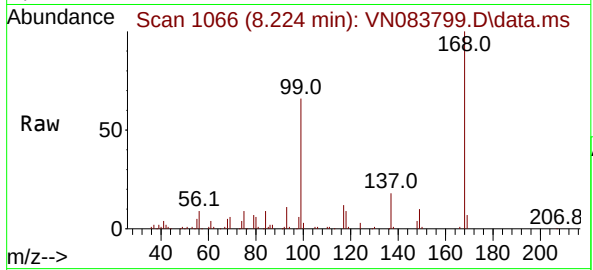
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

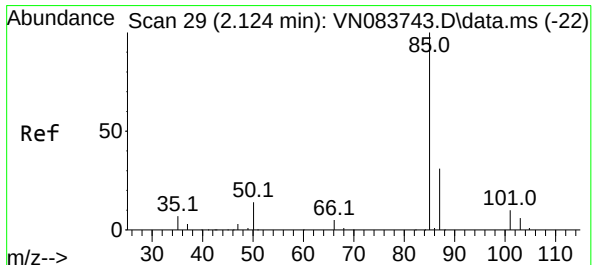
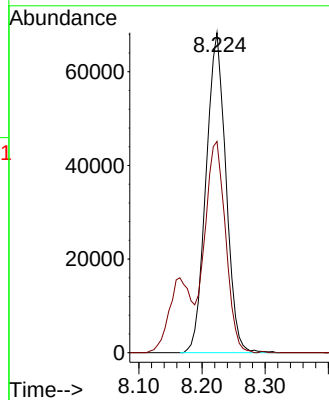
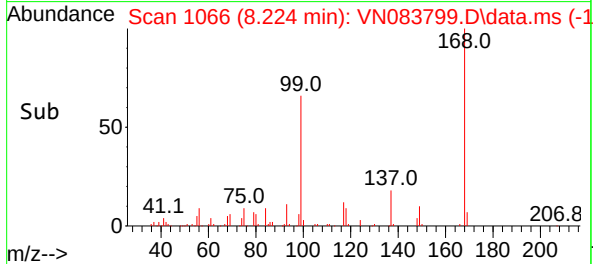
Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01



Tgt Ion:168 Resp: 149250
Ion Ratio Lower Upper
168 100
99 66.0 54.2 81.2

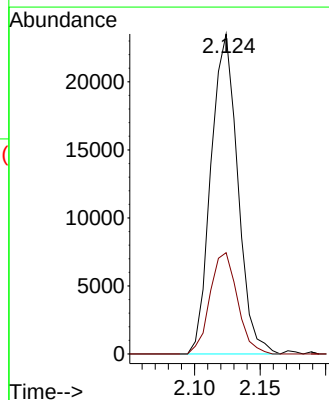
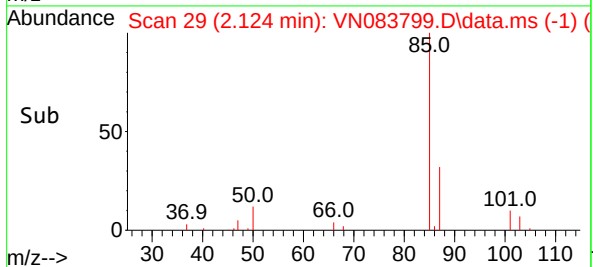
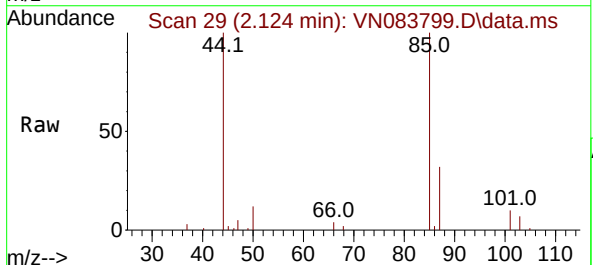
Manual Integrations
APPROVED

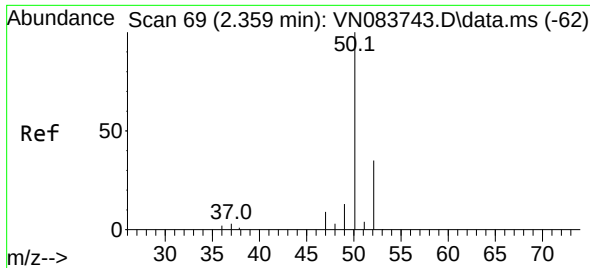
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#2
Dichlorodifluoromethane
Concen: 19.292 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 85 Resp: 33439
Ion Ratio Lower Upper
85 100
87 31.6 15.7 47.0





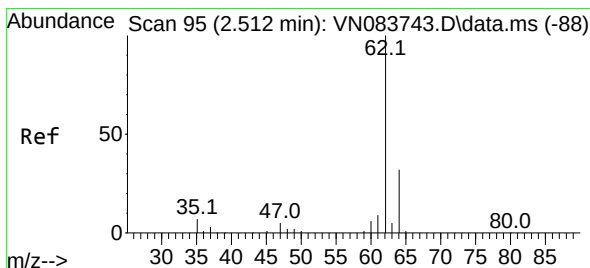
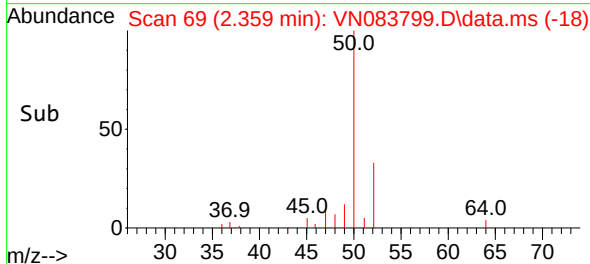
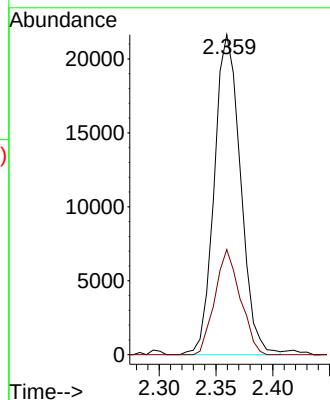
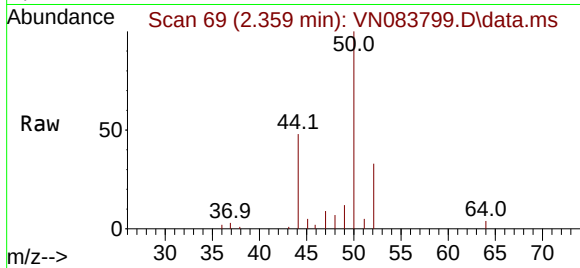
#3
Chloromethane
Concen: 18.523 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Tgt Ion: 50 Resp: 3484
Ion Ratio Lower Upper
50 100
52 32.9 27.2 40.8

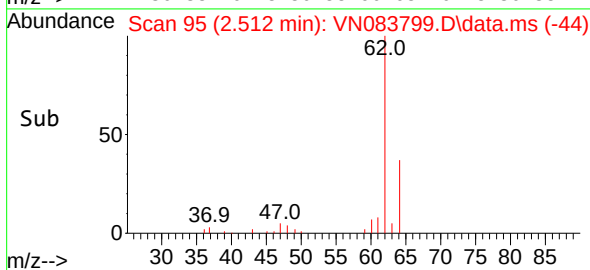
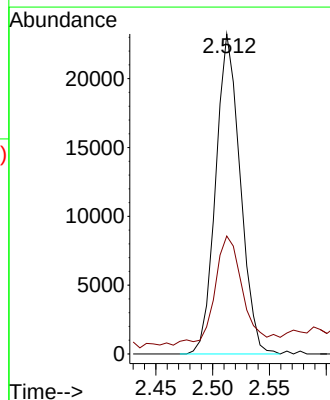
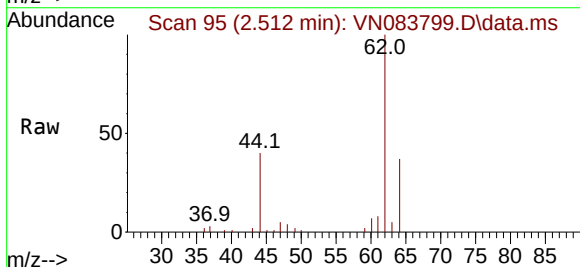
Manual Integrations
APPROVED

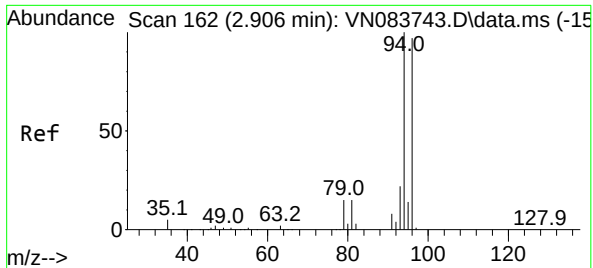
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#4
Vinyl Chloride
Concen: 18.366 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 62 Resp: 34893
Ion Ratio Lower Upper
62 100
64 32.9 24.7 37.1





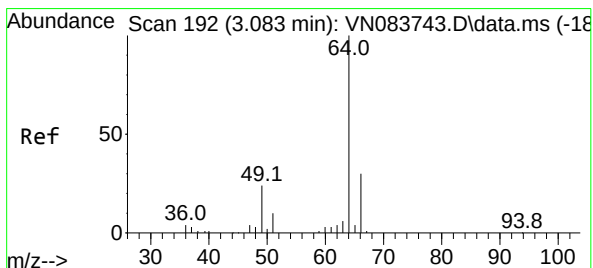
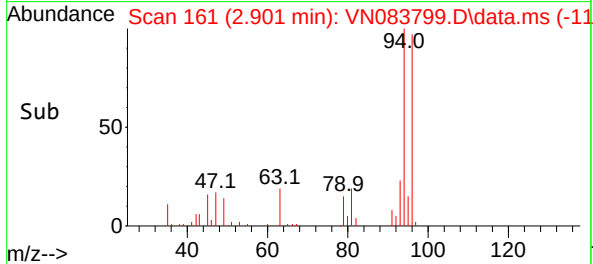
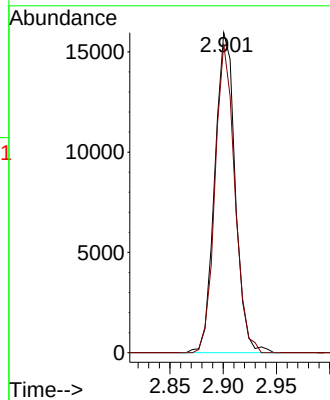
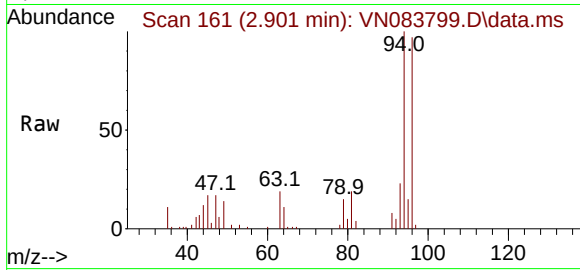
#5
Bromomethane
Concen: 19.430 ug/l
RT: 2.901 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Tgt Ion: 94 Resp: 2119
Ion Ratio Lower Upper
94 100
96 96.5 76.0 114.0

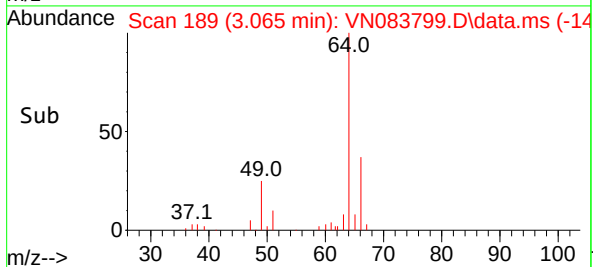
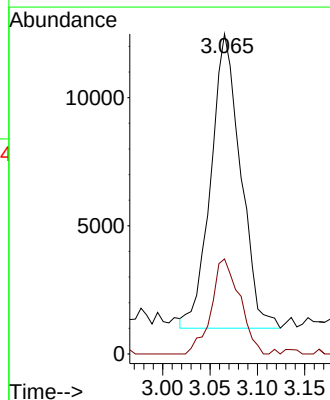
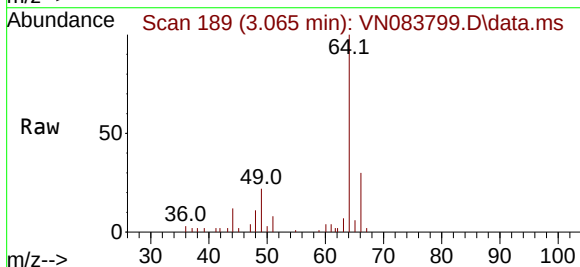
Manual Integrations
APPROVED

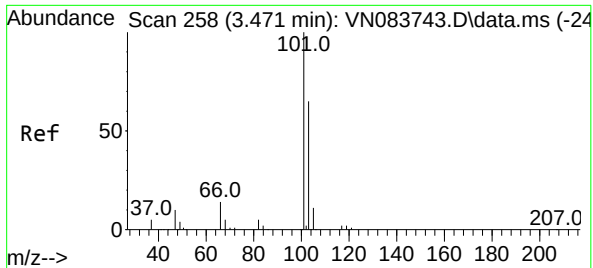
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#6
Chloroethane
Concen: 18.921 ug/l
RT: 3.065 min Scan# 189
Delta R.T. -0.018 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 64 Resp: 25216
Ion Ratio Lower Upper
64 100
66 32.3 23.9 35.9





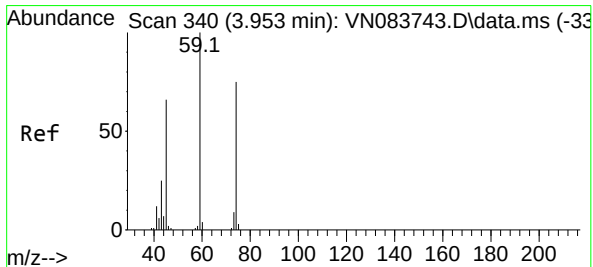
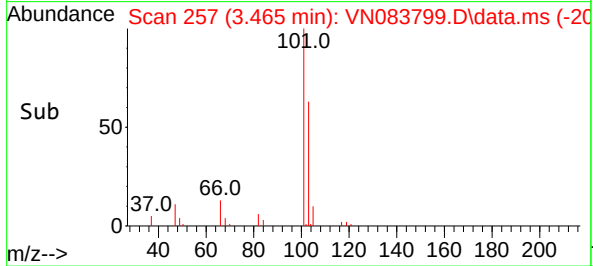
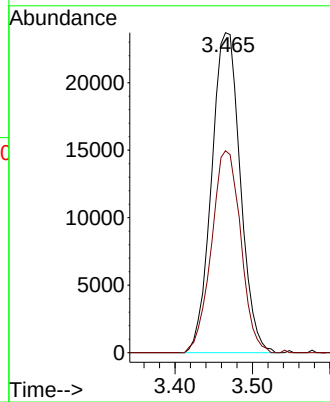
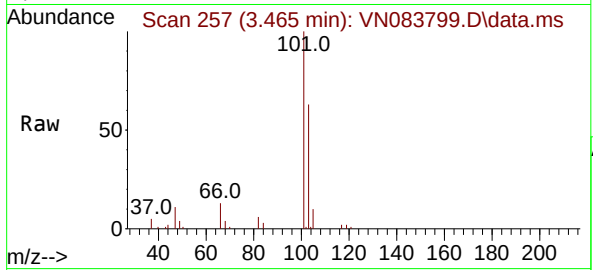
#7
Trichlorofluoromethane
Concen: 18.950 ug/l
RT: 3.465 min Scan# 211
Delta R.T. -0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Tgt Ion:101 Resp: 6111
Ion Ratio Lower Upper
101 100
103 63.1 51.4 77.0

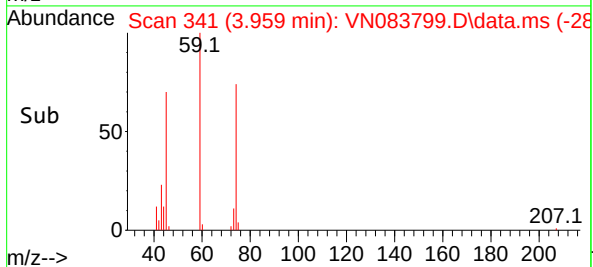
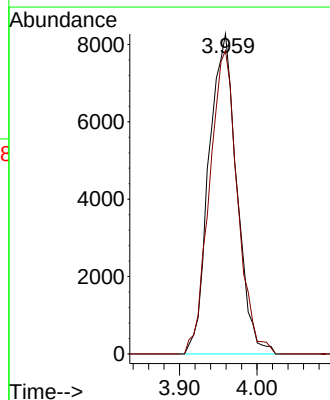
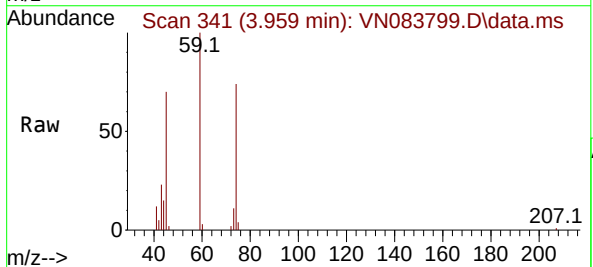
Manual Integrations
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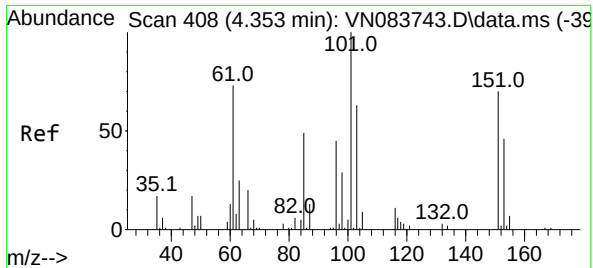
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#8
Diethyl Ether
Concen: 19.093 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 74 Resp: 20640
Ion Ratio Lower Upper
74 100
45 95.8 46.7 140.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.384 ug/l

RT: 4.359 min Scan# 408

Delta R.T. 0.006 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

VN0911WBS01

Tgt Ion:101 Resp: 3313

Ion Ratio Lower Upper

101 100

85 47.7 36.2 54.4

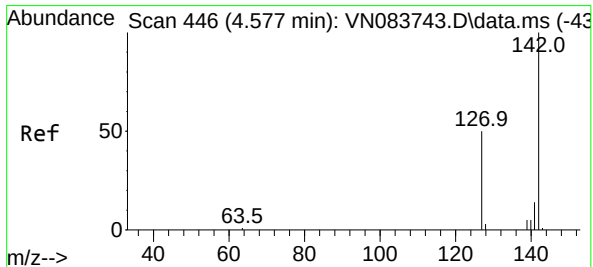
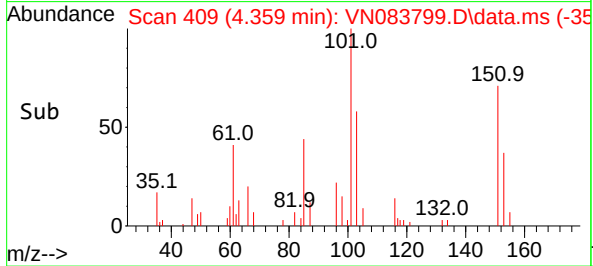
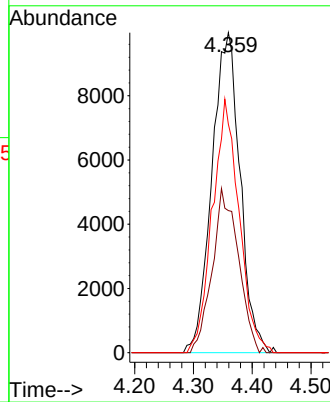
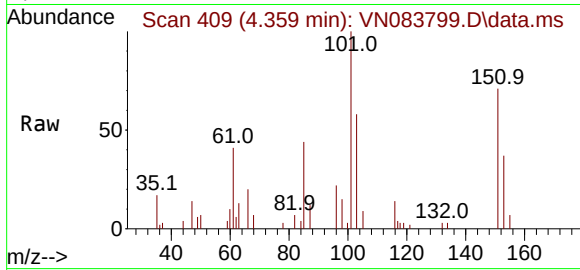
151 75.0 57.7 86.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#10

Methyl Iodide

Concen: 18.815 ug/l

RT: 4.577 min Scan# 446

Delta R.T. -0.000 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

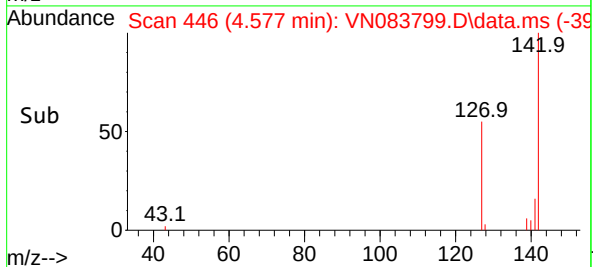
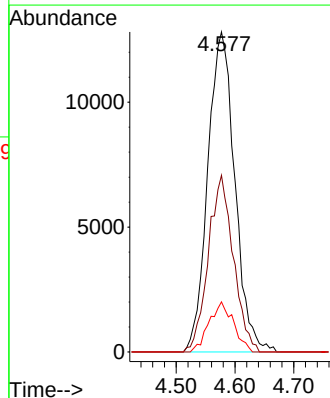
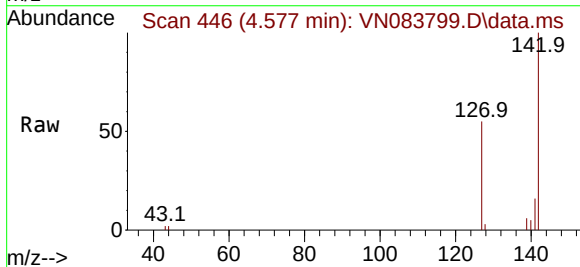
Tgt Ion:142 Resp: 40902

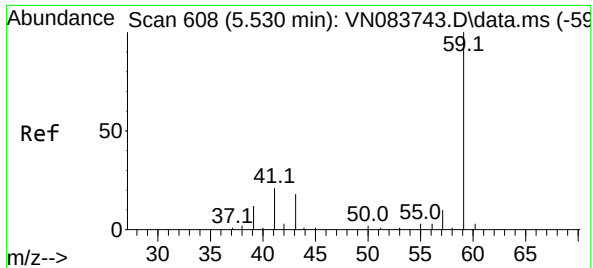
Ion Ratio Lower Upper

142 100

127 55.2 37.5 56.3

141 15.6 11.0 16.4





#11

Tert butyl alcohol

Concen: 101.480 ug/l

RT: 5.536 min Scan# 608

Delta R.T. 0.006 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

VN0911WBS01

Tgt Ion: 59 Resp: 3058

Ion Ratio Lower Upper

59 100

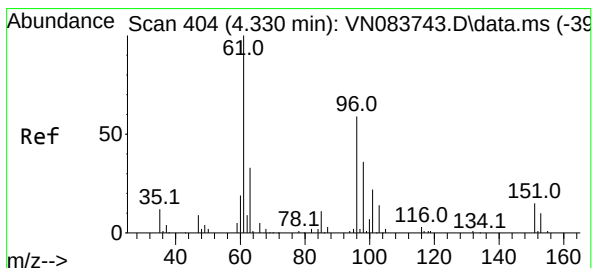
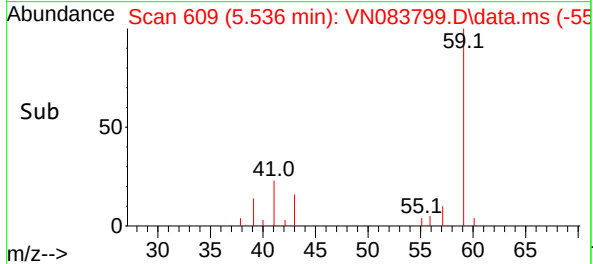
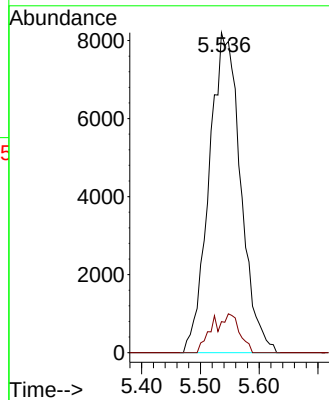
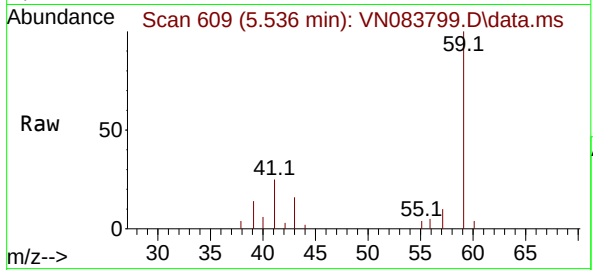
57 4.9 8.7 13.1

Manual Integrations

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Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#12

1,1-Dichloroethene

Concen: 18.726 ug/l

RT: 4.324 min Scan# 403

Delta R.T. -0.006 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

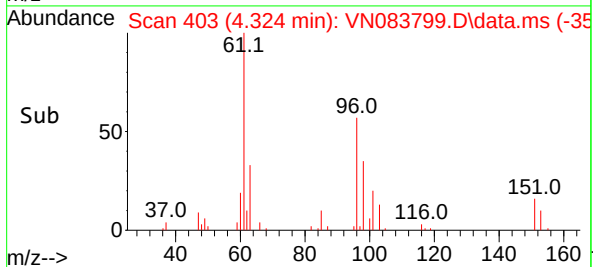
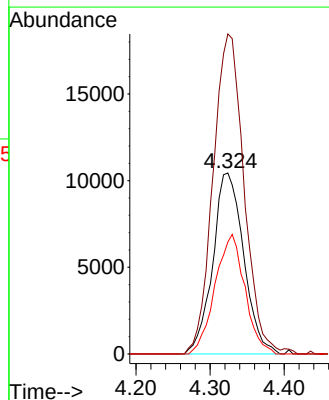
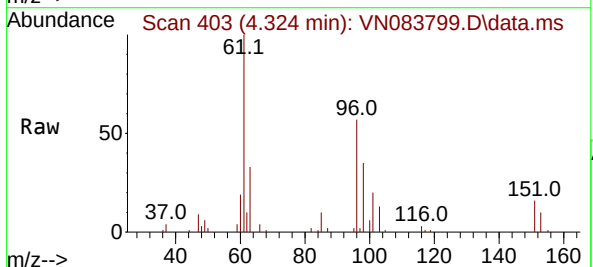
Tgt Ion: 96 Resp: 30229

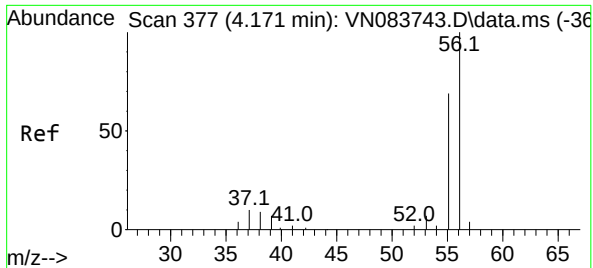
Ion Ratio Lower Upper

96 100

61 176.9 143.4 215.0

98 61.9 52.7 79.1





#13

Acrolein

Concen: 89.826 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

VN0911WBS01

Tgt Ion: 56 Resp: 26709

Ion Ratio Lower Upper

56 100

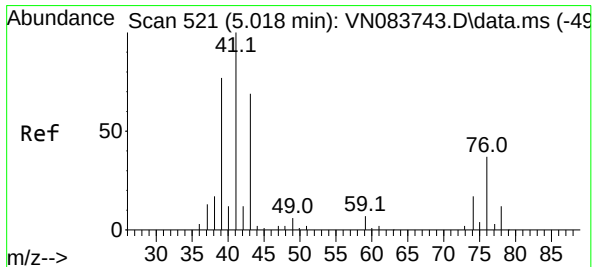
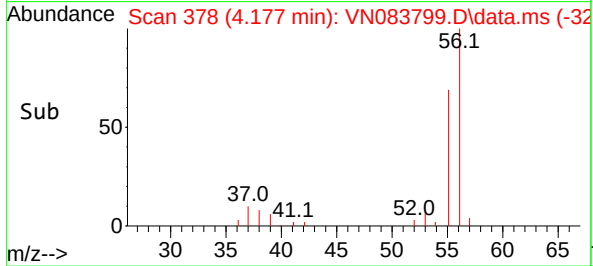
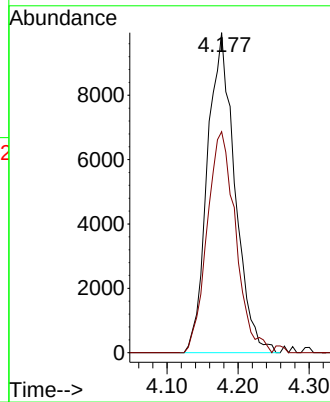
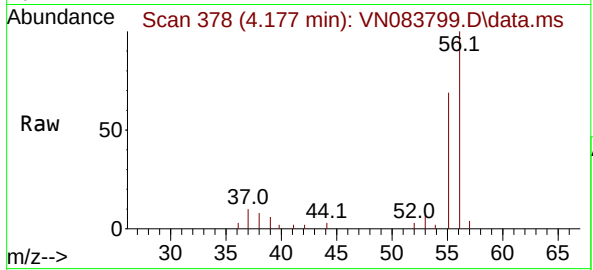
55 71.9 58.2 87.2

Manual Integrations

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Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#14

Allyl chloride

Concen: 19.144 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.006 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

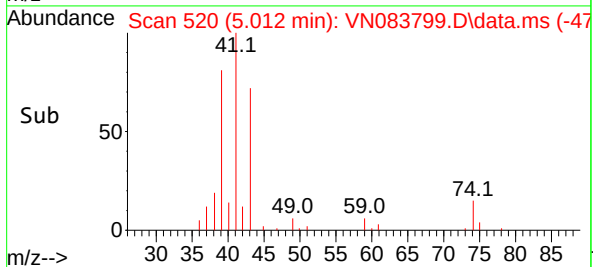
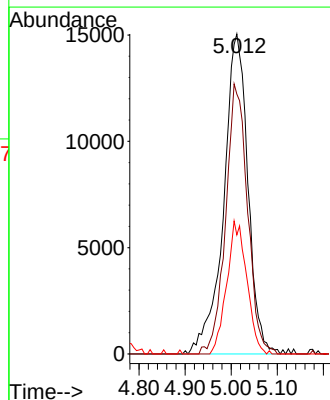
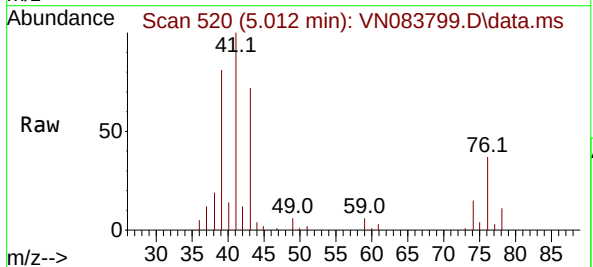
Tgt Ion: 41 Resp: 55067

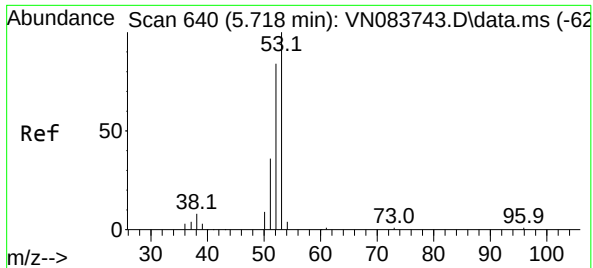
Ion Ratio Lower Upper

41 100

39 75.9 59.3 88.9

76 34.3 27.7 41.5





#15

Acrylonitrile

Concen: 101.732 ug/l

RT: 5.718 min Scan# 640

Delta R.T. -0.000 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

VN0911WBS01

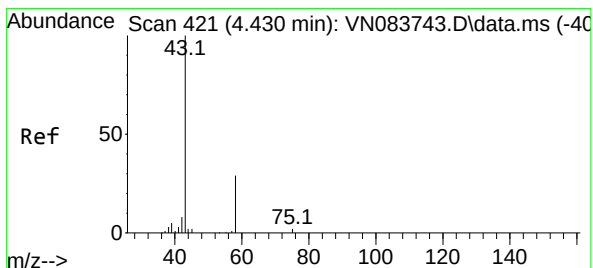
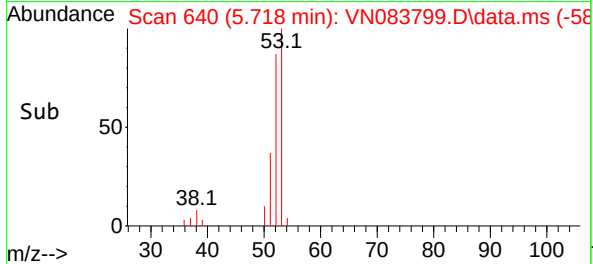
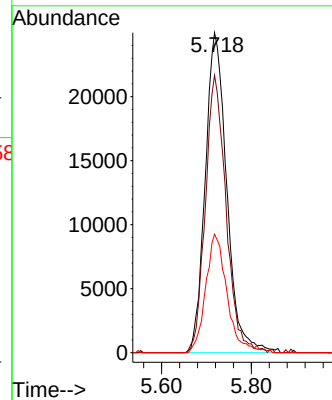
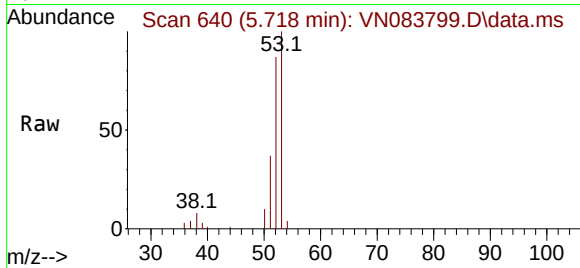
Tgt Ion:	53	Resp:	8337
Ion	Ratio	Lower	Upper
53	100		
52	83.2	66.1	99.1
51	36.9	29.6	44.4

Manual Integrations

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Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#16

Acetone

Concen: 89.998 ug/l

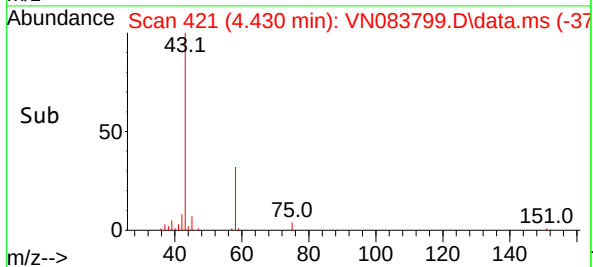
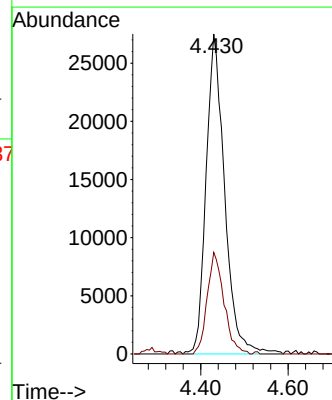
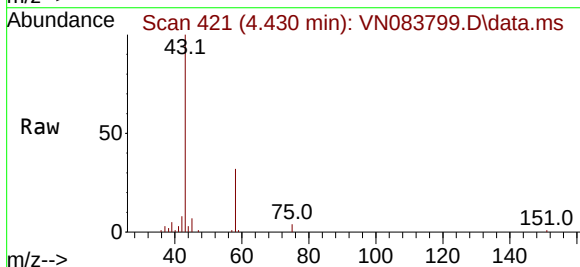
RT: 4.430 min Scan# 421

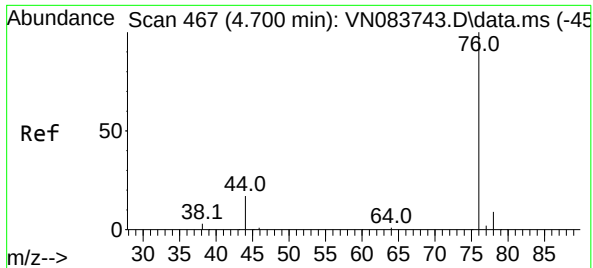
Delta R.T. -0.000 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Tgt Ion:	43	Resp:	81193
Ion	Ratio	Lower	Upper
43	100		
58	31.7	23.7	35.5





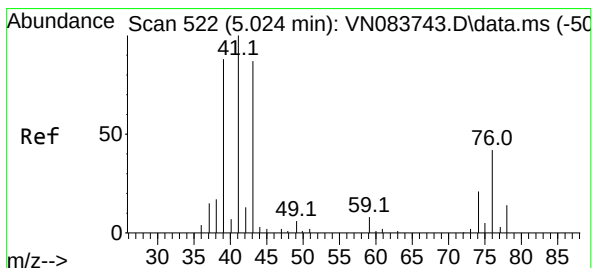
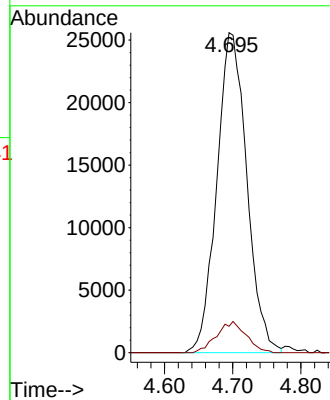
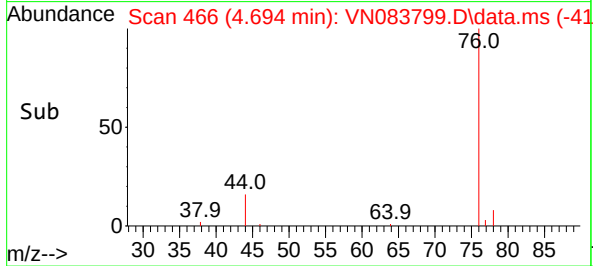
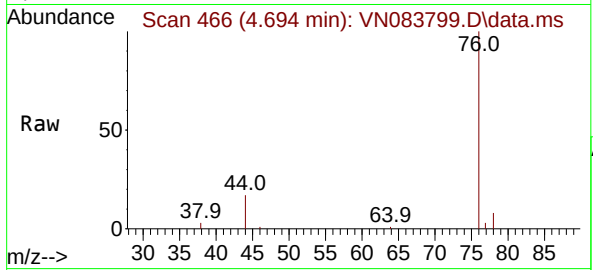
#17
Carbon Disulfide
Concen: 17.345 ug/l
RT: 4.694 min Scan# 467
Delta R.T. -0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Tgt Ion: 76 Resp: 78324
Ion Ratio Lower Upper
76 100
78 8.2 7.1 10.7

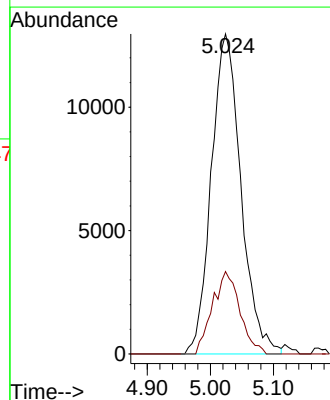
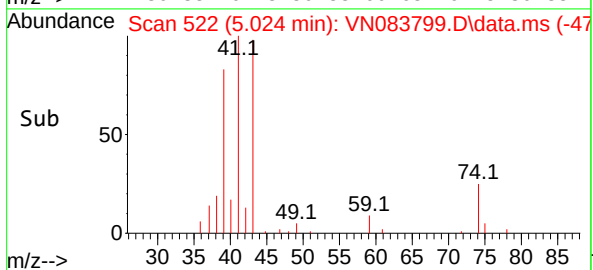
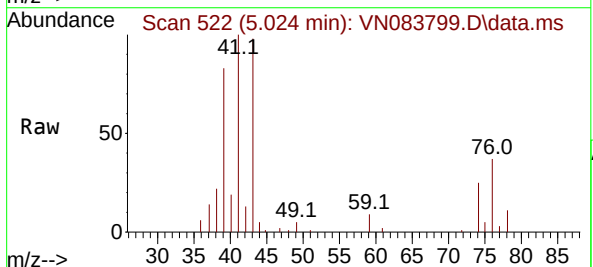
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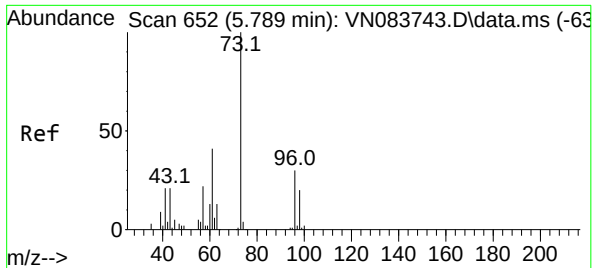
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#18
Methyl Acetate
Concen: 21.440 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 43 Resp: 42293
Ion Ratio Lower Upper
43 100
74 23.8 19.0 28.4





#19

Methyl tert-butyl Ether

Concen: 19.271 ug/l

RT: 5.794 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

VN0911WBS01

Tgt Ion: 73 Resp: 11257

Ion Ratio Lower Upper

73 100

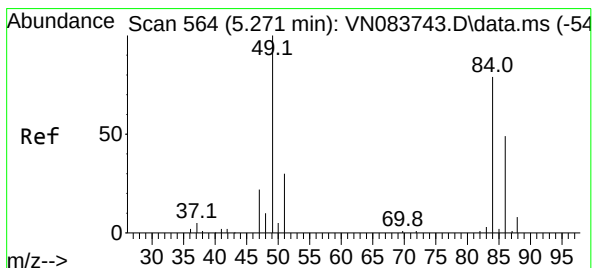
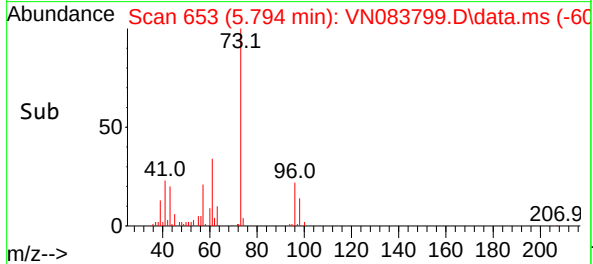
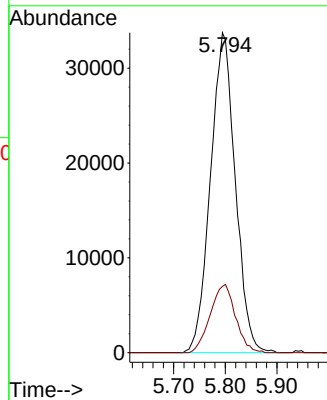
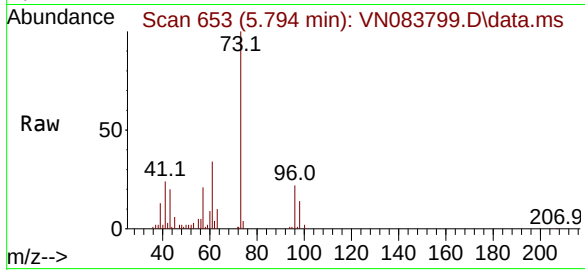
57 20.7 17.0 25.6

Manual Integrations

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Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#20

Methylene Chloride

Concen: 19.065 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.006 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Tgt Ion: 84 Resp: 35197

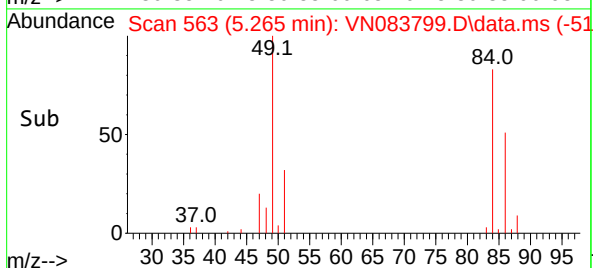
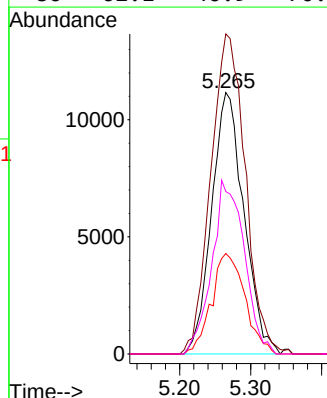
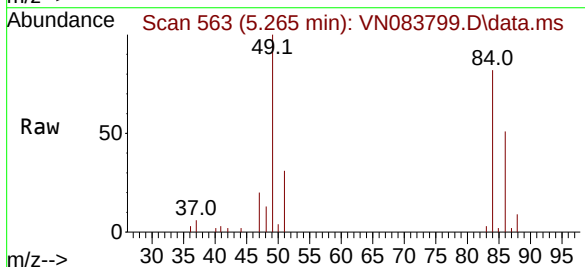
Ion Ratio Lower Upper

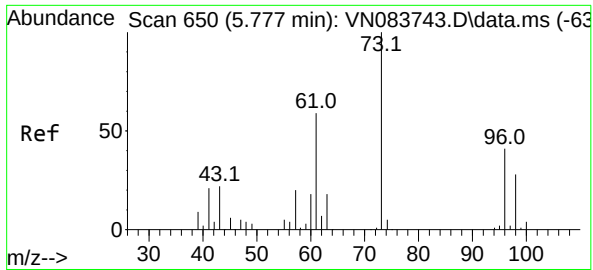
84 100

49 122.4 93.4 140.0

51 38.4 29.2 43.8

86 62.1 46.9 70.3





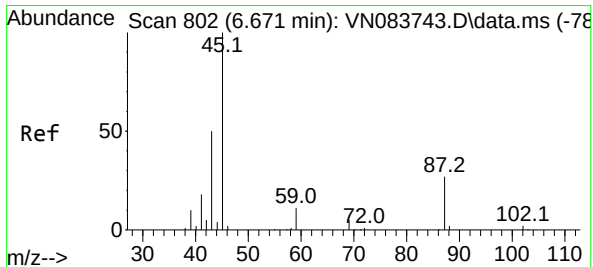
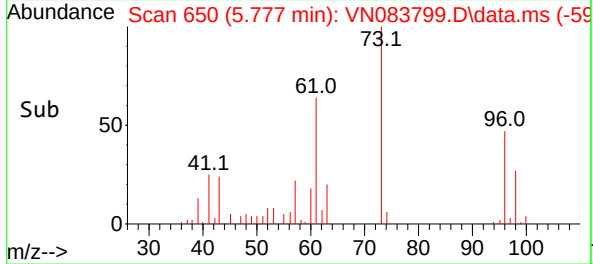
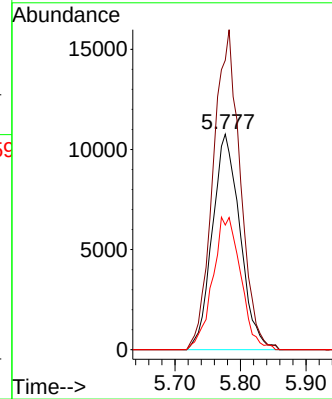
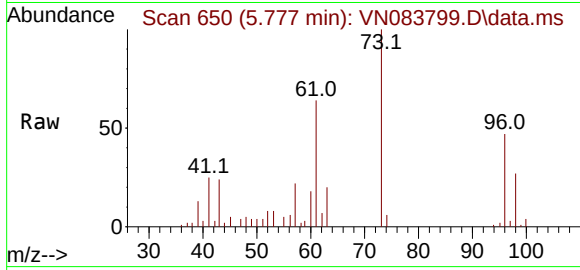
#21
trans-1,2-Dichloroethene
Concen: 18.251 ug/l
RT: 5.777 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Tgt Ion: 96 Resp: 31574
Ion Ratio Lower Upper
96 100
61 134.2 106.0 159.0
98 57.8 52.2 78.2

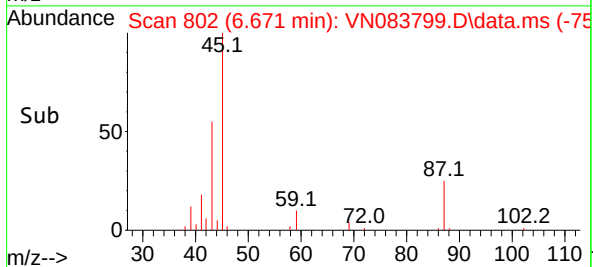
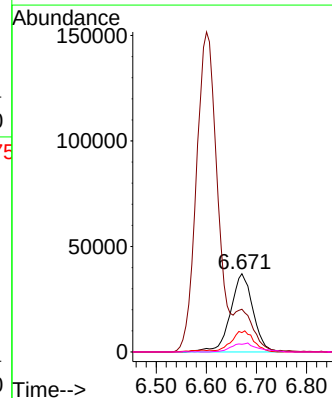
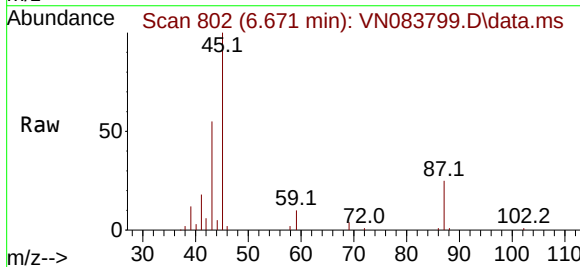
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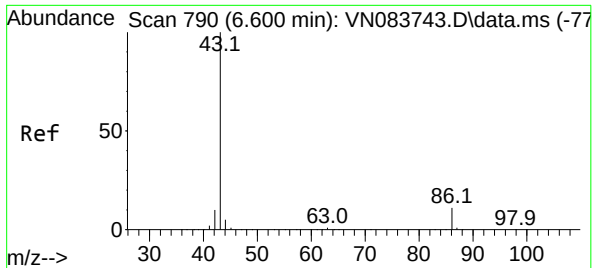
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#22
Diisopropyl ether
Concen: 19.522 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 45 Resp: 115593
Ion Ratio Lower Upper
45 100
43 53.1 43.4 65.0
87 24.8 22.6 33.8
59 9.5 9.1 13.7





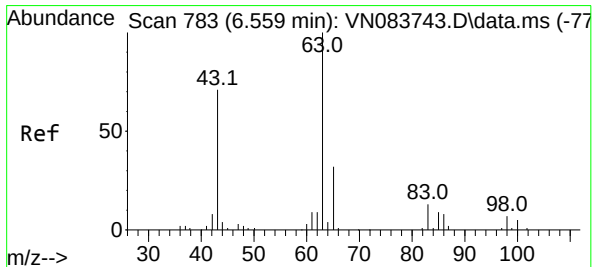
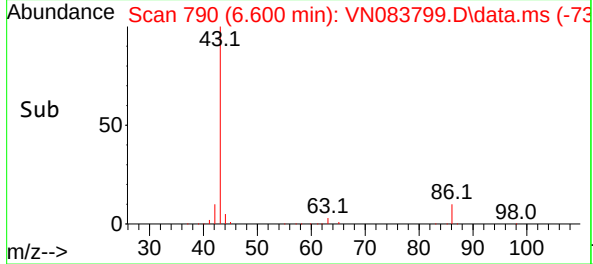
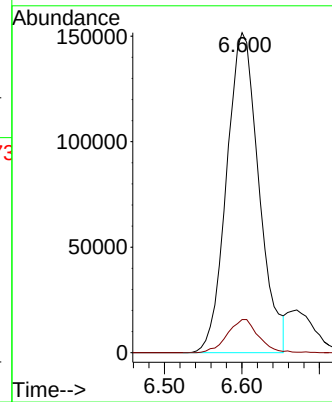
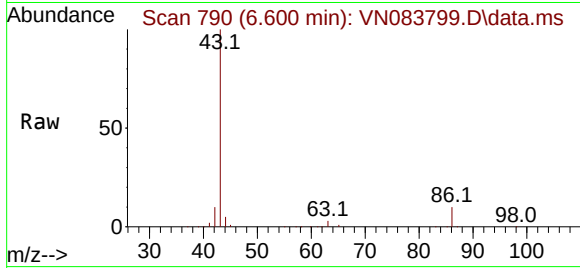
#23
 Vinyl Acetate
 Concen: 101.605 ug/l
 RT: 6.600 min Scan# 790
 Delta R.T. -0.000 min
 Lab File: VN083799.D
 Acq: 11 Sep 2024 16:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0911WBS01

Tgt Ion: 43 Resp: 44058
 Ion Ratio Lower Upper
 43 100
 86 10.3 8.7 13.1

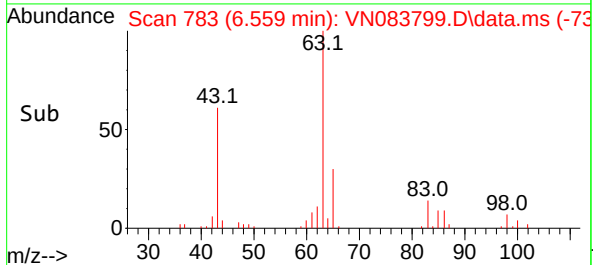
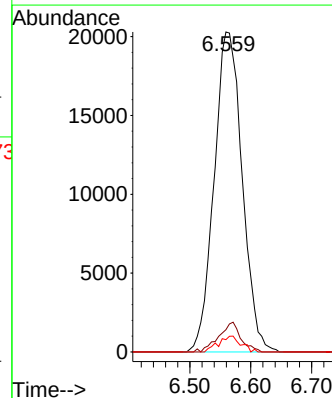
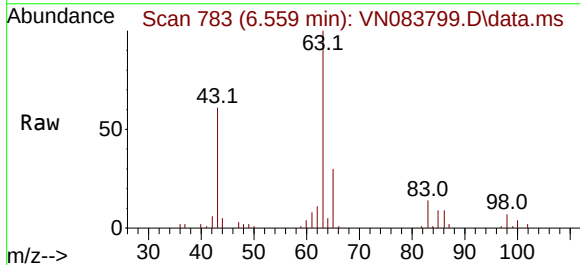
Manual Integrations
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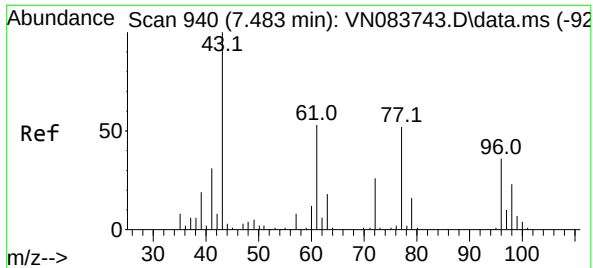
Reviewed By :John Carlone 09/12/2024
 Supervised By :Mahesh Dadoda 09/12/2024



#24
 1,1-Dichloroethane
 Concen: 19.037 ug/l
 RT: 6.559 min Scan# 783
 Delta R.T. -0.000 min
 Lab File: VN083799.D
 Acq: 11 Sep 2024 16:45

Tgt Ion: 63 Resp: 64942
 Ion Ratio Lower Upper
 63 100
 98 7.0 3.5 10.4
 100 3.8 2.5 7.5





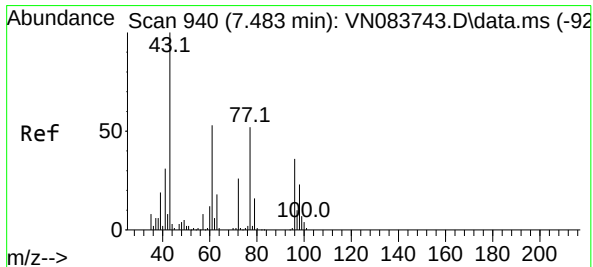
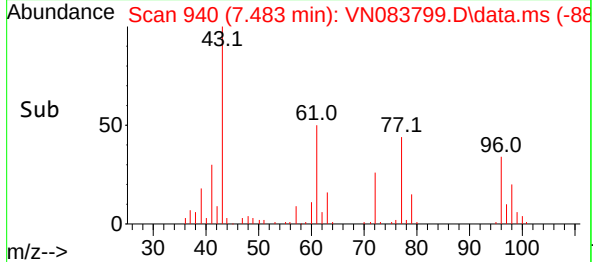
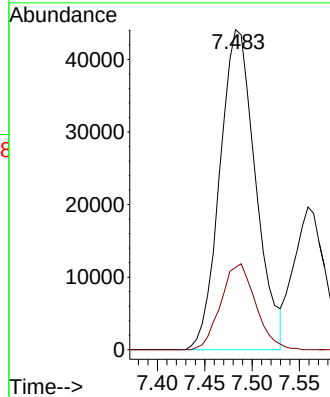
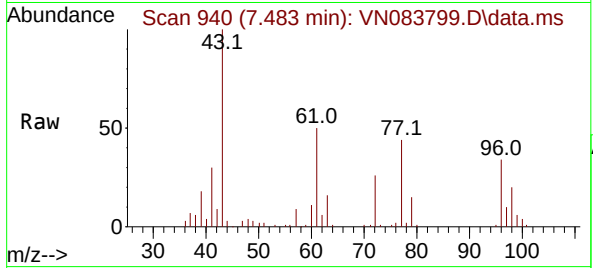
#25
2-Butanone
Concen: 97.785 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Tgt Ion: 43 Resp: 115948
Ion Ratio Lower Upper
43 100
72 25.7 20.8 31.2

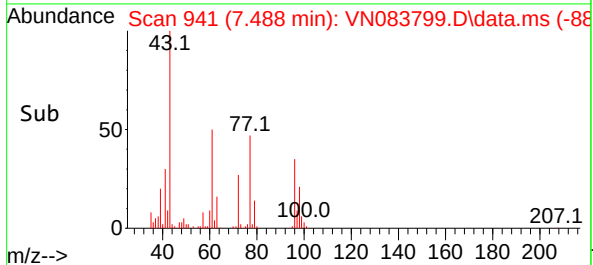
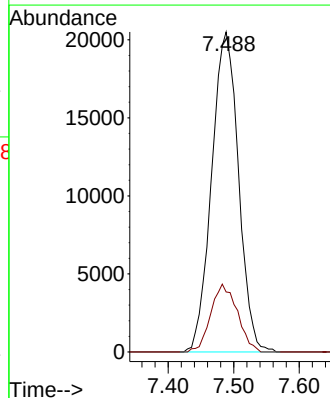
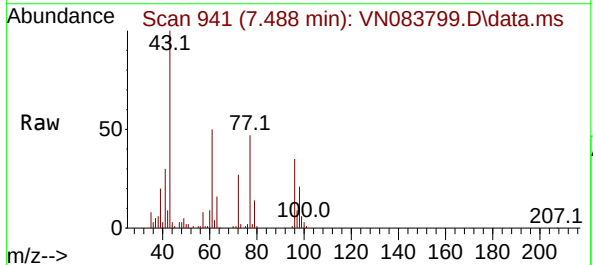
Manual Integrations
APPROVED

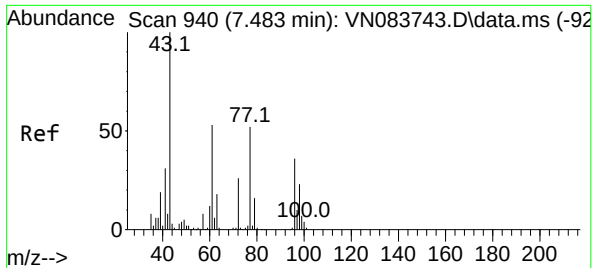
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#26
2,2-Dichloropropane
Concen: 18.553 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

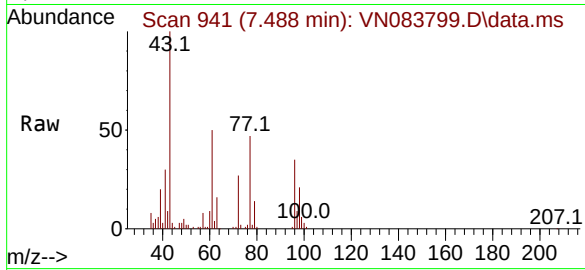
Tgt Ion: 77 Resp: 58288
Ion Ratio Lower Upper
77 100
97 21.0 10.2 30.4





#27
 cis-1,2-Dichloroethene
 Concen: 19.068 ug/l
 RT: 7.488 min Scan# 941
 Delta R.T. 0.006 min
 Lab File: VN083799.D
 Acq: 11 Sep 2024 16:45

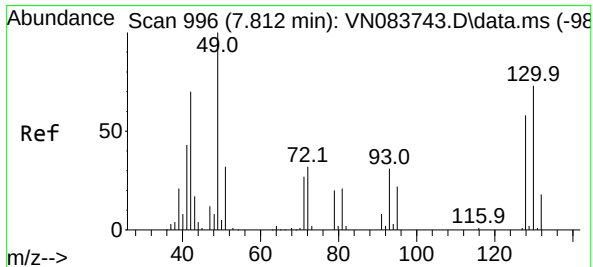
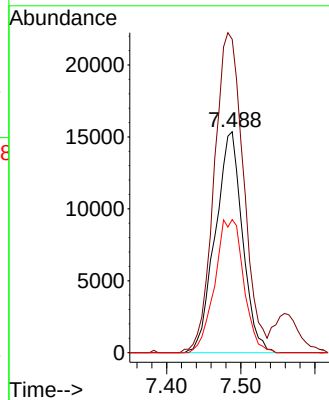
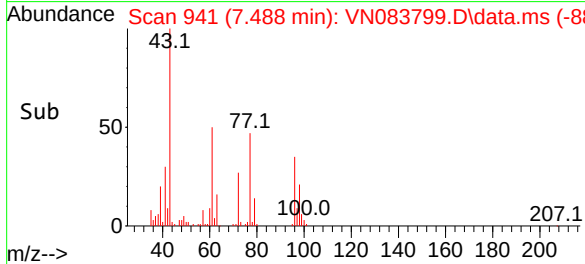
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0911WBS01



Tgt Ion: 96 Resp: 3916
 Ion Ratio Lower Upper
 96 100
 61 156.1 0.0 306.2
 98 63.9 0.0 128.6

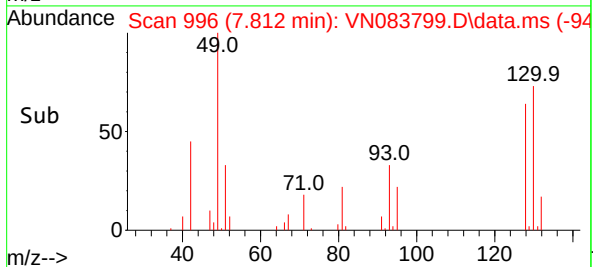
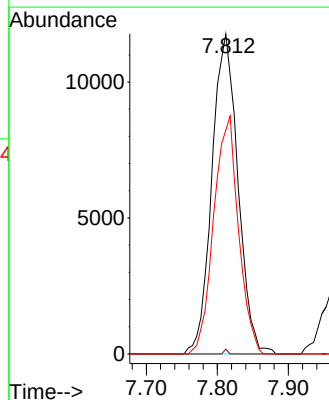
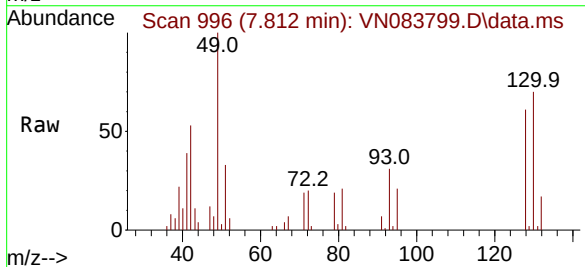
Manual Integrations
 APPROVED

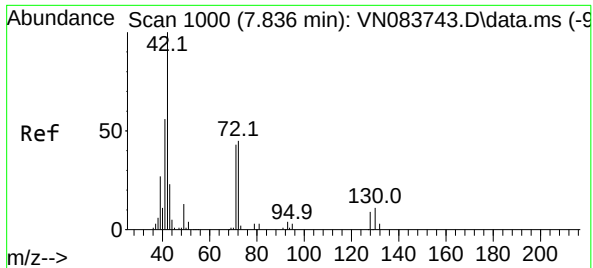
Reviewed By :John Carlone 09/12/2024
 Supervised By :Mahesh Dadoda 09/12/2024



#28
 Bromochloromethane
 Concen: 20.788 ug/l
 RT: 7.812 min Scan# 996
 Delta R.T. -0.000 min
 Lab File: VN083799.D
 Acq: 11 Sep 2024 16:45

Tgt Ion: 49 Resp: 29864
 Ion Ratio Lower Upper
 49 100
 129 0.2 0.0 3.4
 130 70.8 60.2 90.2





#29

Tetrahydrofuran

Concen: 101.965 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

VN0911WBS01

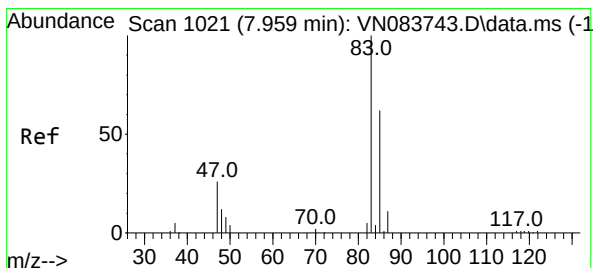
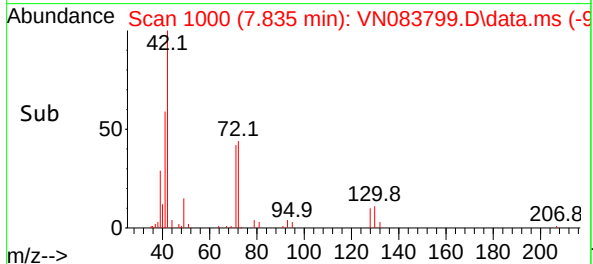
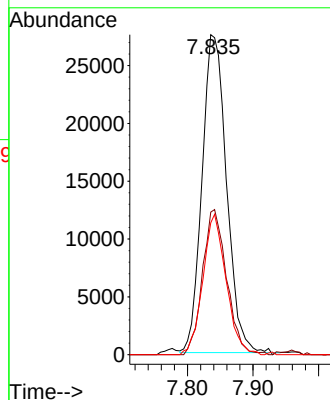
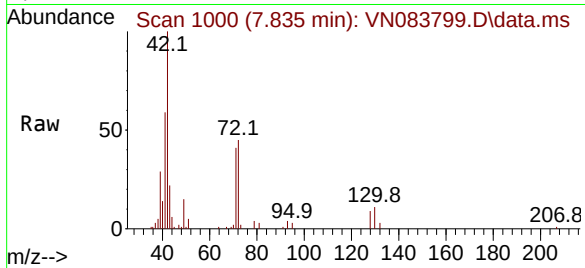
Tgt Ion:	42	Resp:	71490
Ion	Ratio	Lower	Upper
42	100		
72	44.9	35.9	53.9
71	42.0	33.9	50.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#30

Chloroform

Concen: 18.872 ug/l

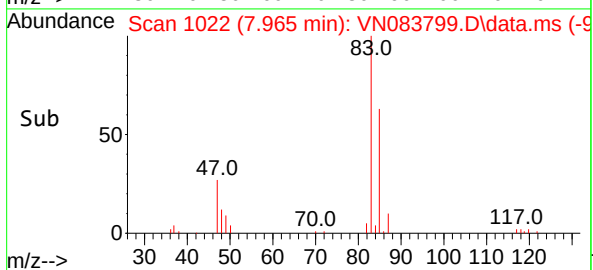
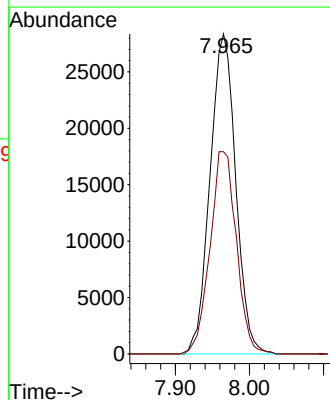
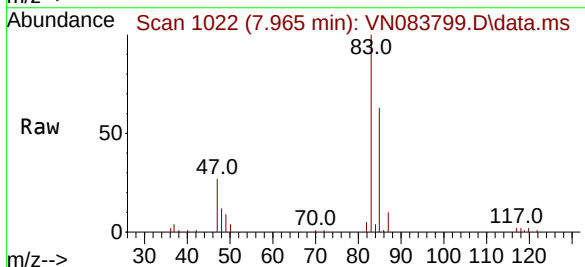
RT: 7.965 min Scan# 1022

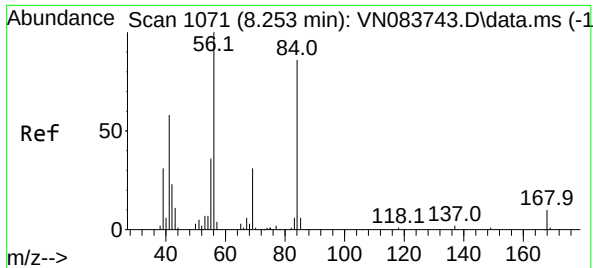
Delta R.T. 0.006 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

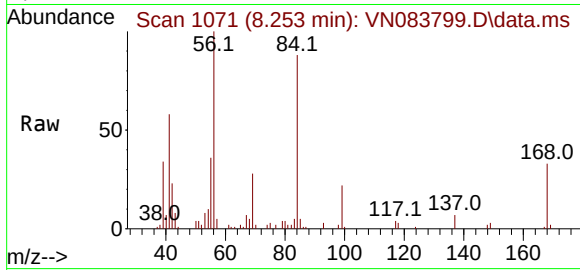
Tgt Ion:	83	Resp:	68347
Ion	Ratio	Lower	Upper
83	100		
85	63.2	52.8	79.2





#31
Cyclohexane
Concen: 18.353 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

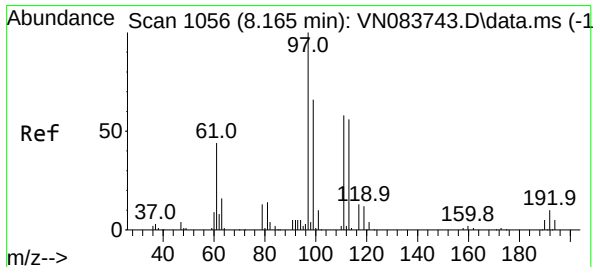
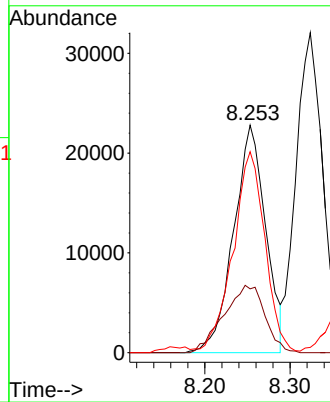
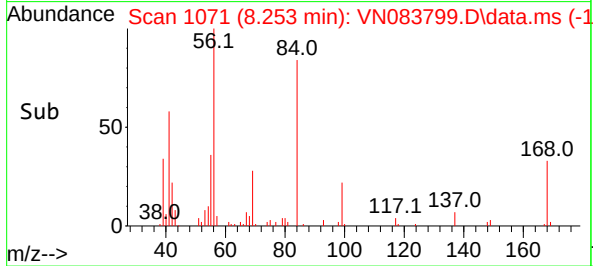
Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01



Tgt Ion: 56 Resp: 5969
Ion Ratio Lower Upper
56 100
69 28.1 26.9 40.3
84 86.2 69.2 103.8

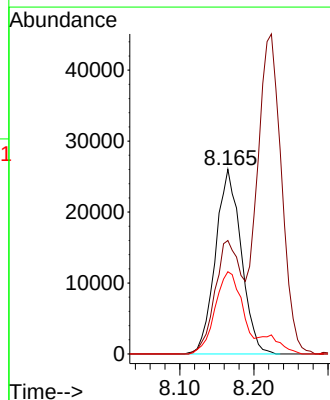
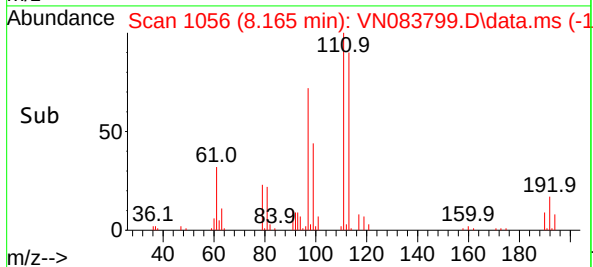
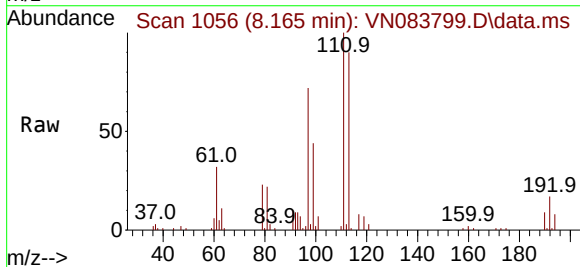
Manual Integrations
APPROVED

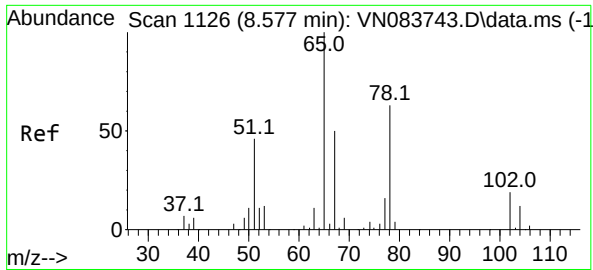
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#32
1,1,1-Trichloroethane
Concen: 18.809 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 97 Resp: 62636
Ion Ratio Lower Upper
97 100
99 63.1 52.3 78.5
61 48.3 38.2 57.2





#33

1,2-Dichloroethane-d4

Concen: 50.635 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

VN0911WBS01

Tgt Ion: 65 Resp: 113952

Ion Ratio Lower Upper

65 100

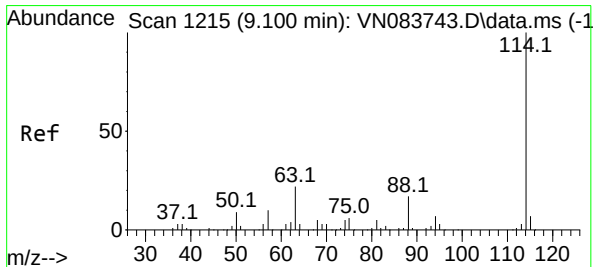
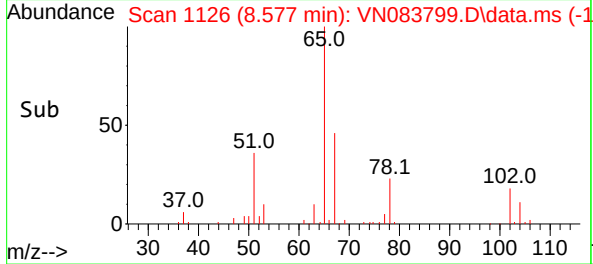
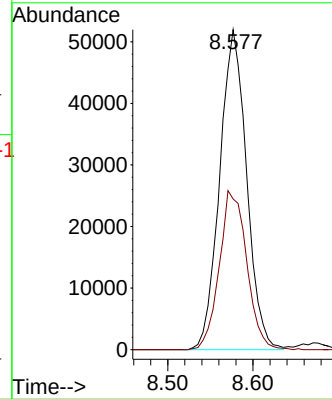
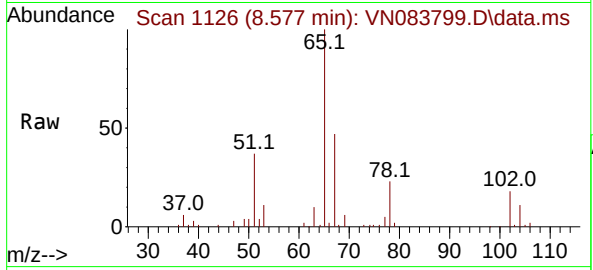
67 50.7 0.0 100.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

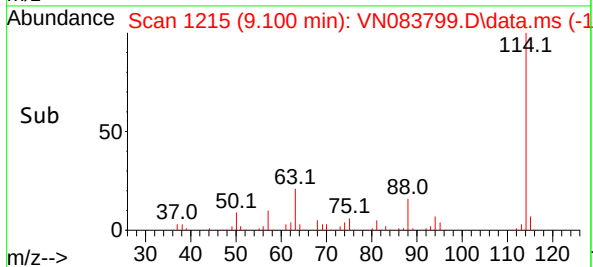
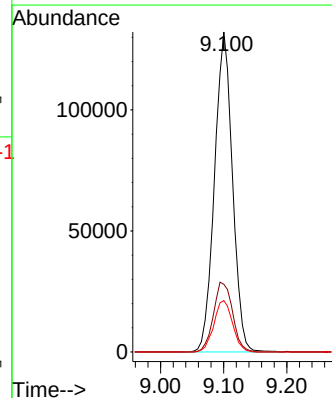
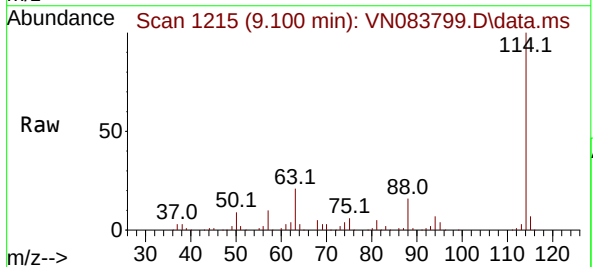
Tgt Ion:114 Resp: 261095

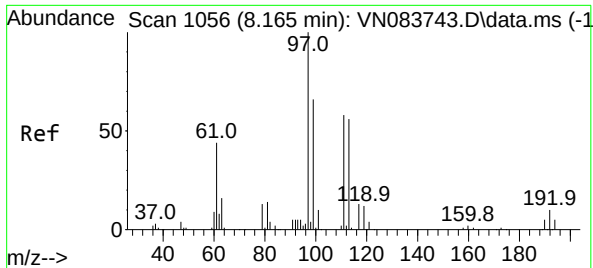
Ion Ratio Lower Upper

114 100

63 21.2 0.0 43.4

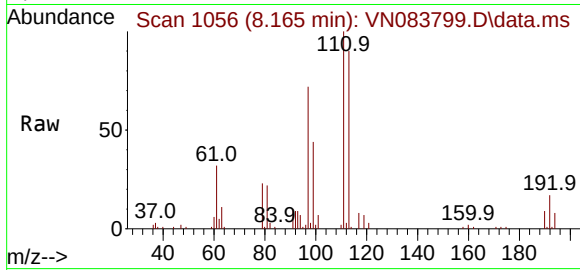
88 16.1 0.0 32.6





#35
Dibromofluoromethane
Concen: 48.679 ug/l
RT: 8.165 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

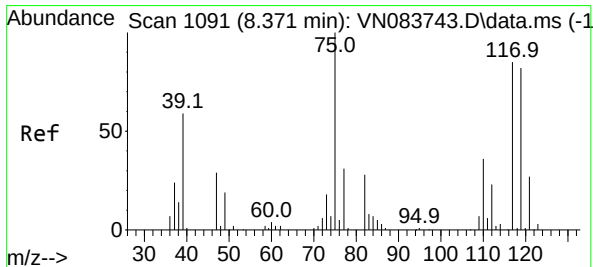
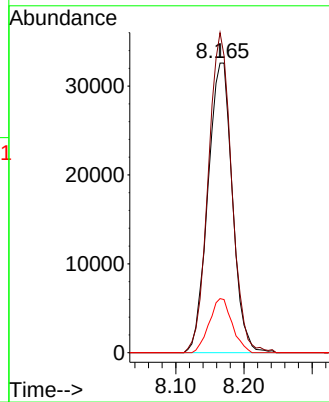
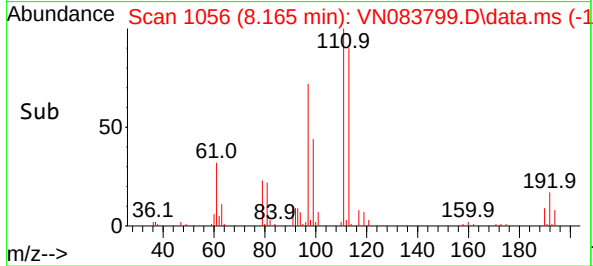
Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01



Tgt Ion: 113 Resp: 81360
Ion Ratio Lower Upper
113 100
111 105.5 82.6 124.0
192 17.4 14.3 21.5

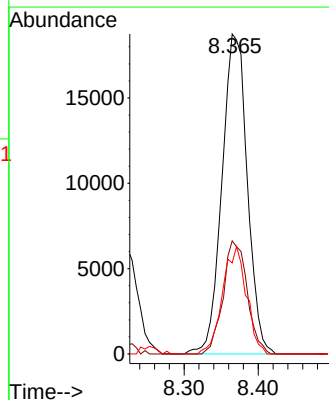
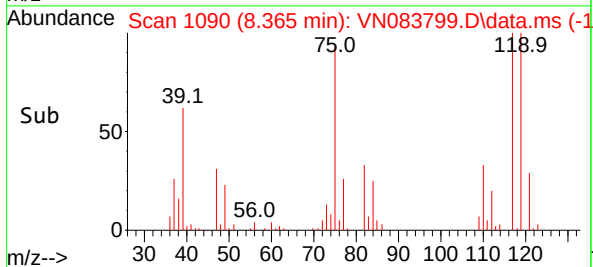
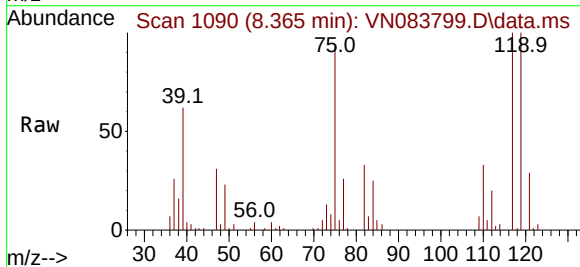
Manual Integrations
APPROVED

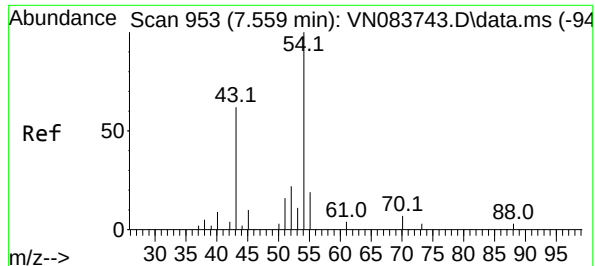
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#36
1,1-Dichloropropene
Concen: 17.679 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 75 Resp: 44477
Ion Ratio Lower Upper
75 100
110 33.7 16.7 50.1
77 31.7 25.2 37.8





#37

Ethyl Acetate

Concen: 21.239 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

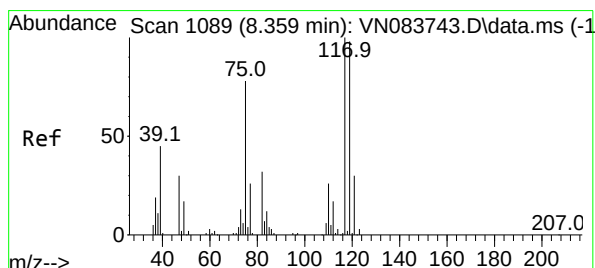
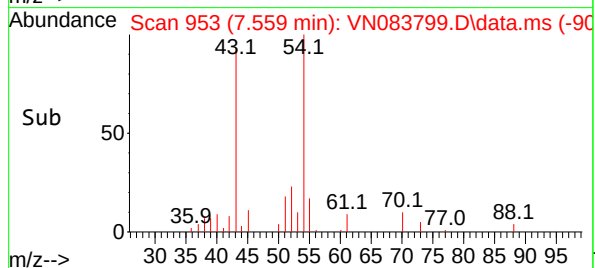
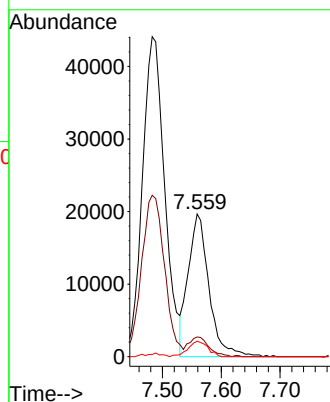
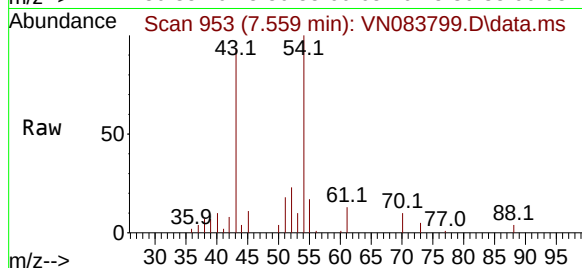
Instrument :

MSVOA_N

ClientSampleId :

VN0911WBS01

Tgt Ion: 43	Resp: 4850
Ion Ratio	Lower Upper
43	100
61	13.3 11.1 16.7
70	10.3 8.8 13.2

Manual Integrations
APPROVEDReviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

#38

Carbon Tetrachloride

Concen: 18.935 ug/l

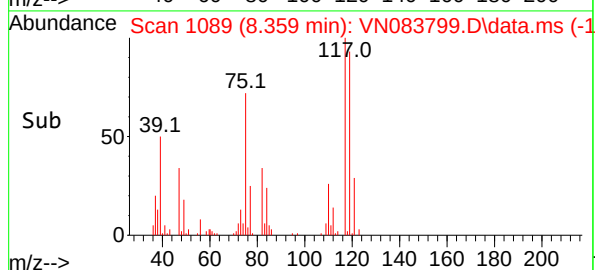
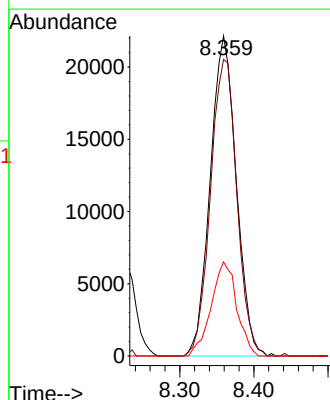
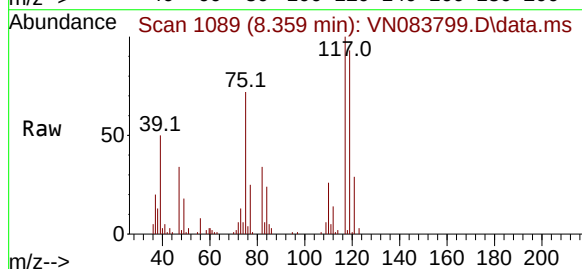
RT: 8.359 min Scan# 1089

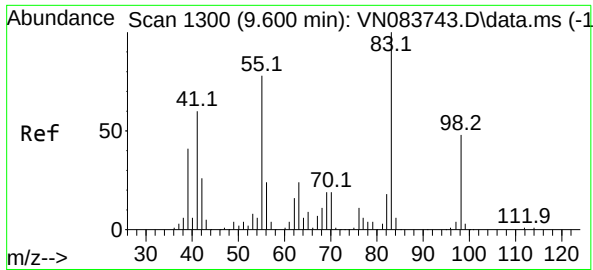
Delta R.T. -0.000 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Tgt Ion: 117	Resp: 54045
Ion Ratio	Lower Upper
117	100
119	92.7 76.1 114.1
121	29.4 24.1 36.1





#39

Methylcyclohexane

Concen: 18.678 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

VN0911WBS01

Tgt Ion: 83 Resp: 5348

Ion Ratio Lower Upper

83 100

55 77.1 62.2 93.4

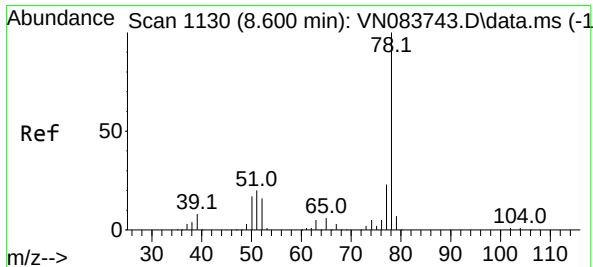
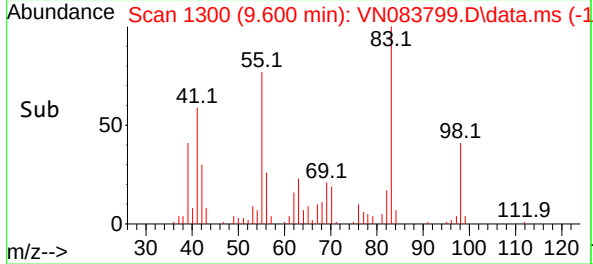
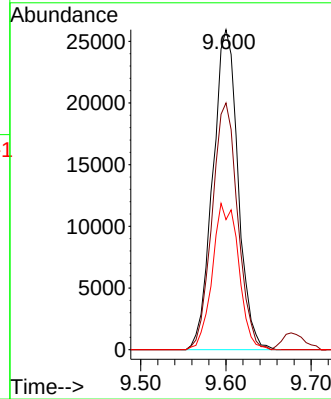
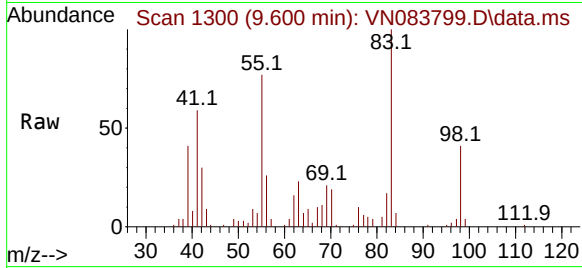
98 40.6 37.6 56.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#40

Benzene

Concen: 18.799 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN083799.D

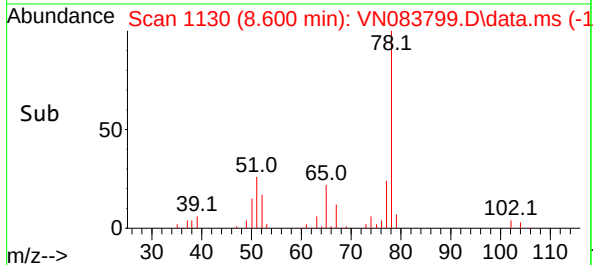
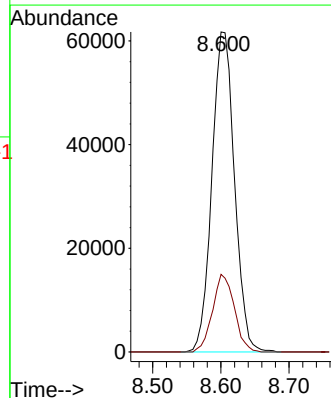
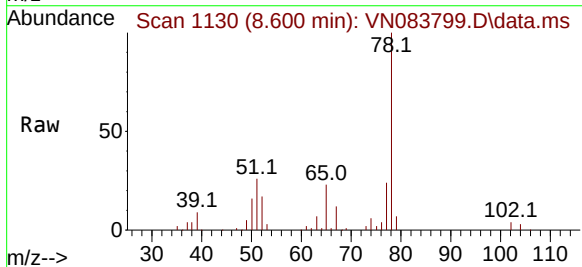
Acq: 11 Sep 2024 16:45

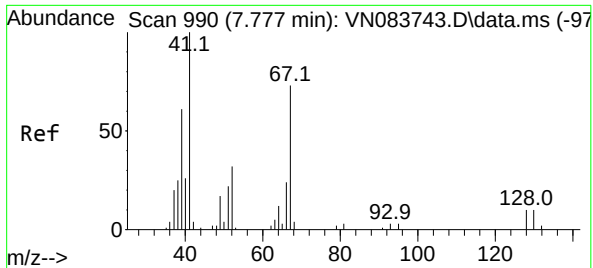
Tgt Ion: 78 Resp: 142354

Ion Ratio Lower Upper

78 100

77 24.3 19.0 28.6





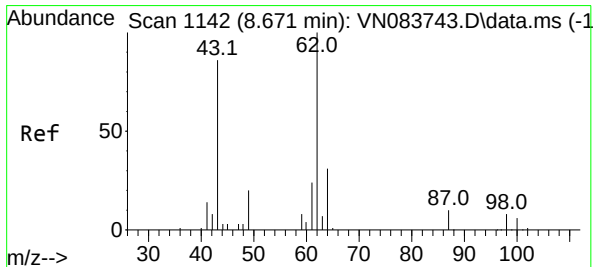
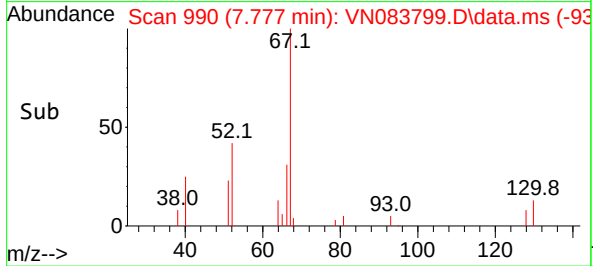
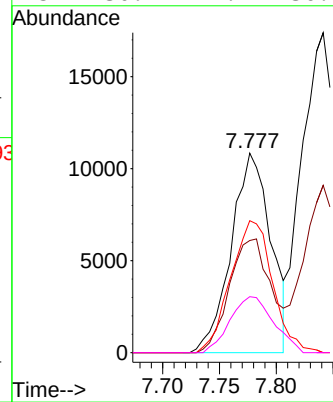
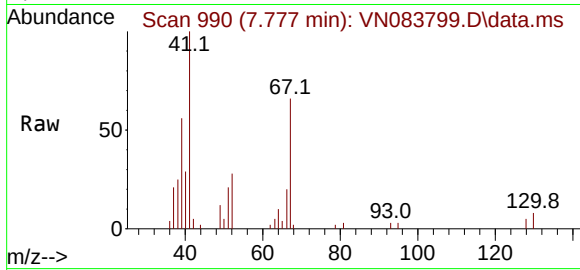
#41
Methacrylonitrile
Concen: 19.485 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Tgt Ion:	41	Resp:	26318
Ion	Ratio	Lower	Upper
41	100		
39	59.7	45.4	68.2
67	69.9	55.9	83.9
52	30.7	24.1	36.1

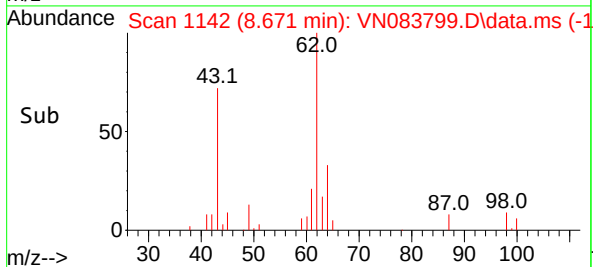
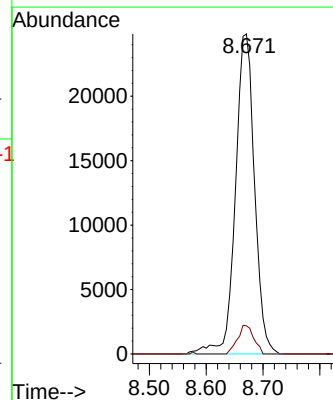
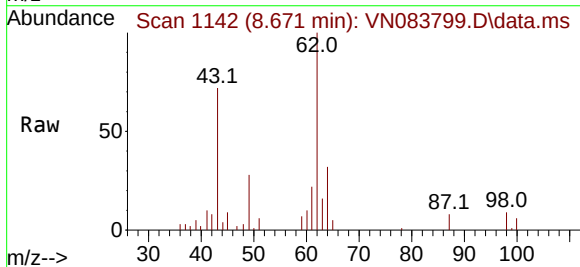
Manual Integrations
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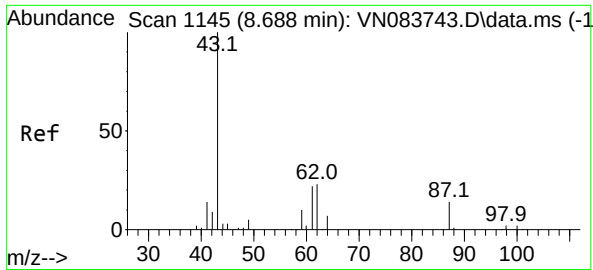
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#42
1,2-Dichloroethane
Concen: 20.469 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:	62	Resp:	57918
Ion	Ratio	Lower	Upper
62	100		
98	7.6	0.0	16.6





#43

Isopropyl Acetate

Concen: 23.761 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

VN0911WBS01

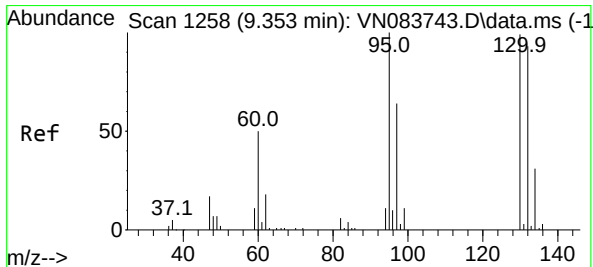
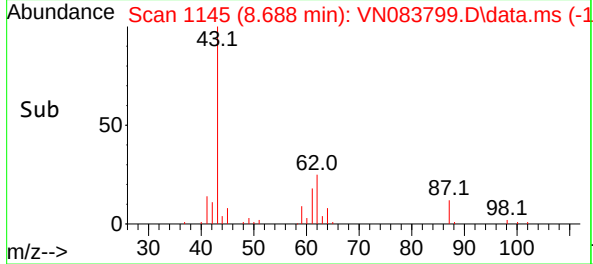
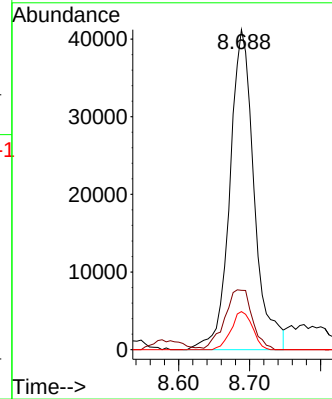
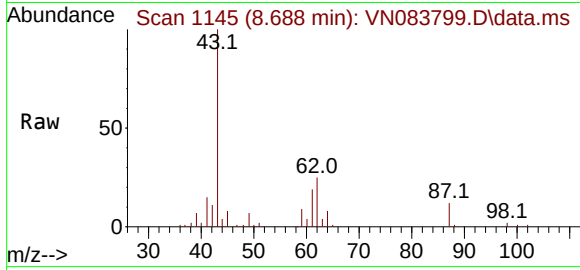
Tgt Ion: 43	Resp: 98330
Ion Ratio	Lower Upper
43 100	
61 21.1	19.4 29.0
87 10.4	9.8 14.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#44

Trichloroethene

Concen: 18.450 ug/l

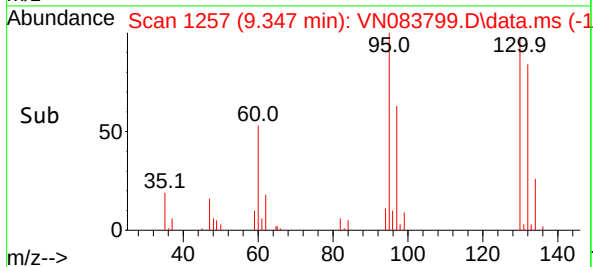
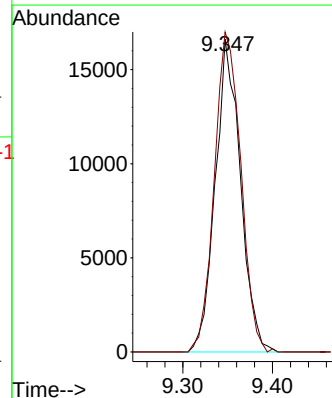
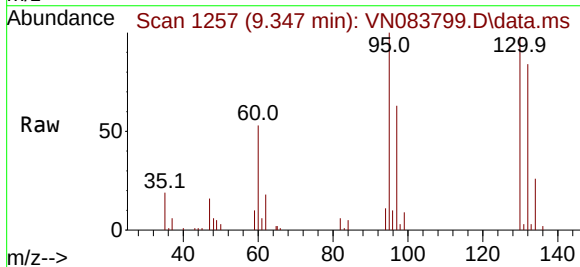
RT: 9.347 min Scan# 1257

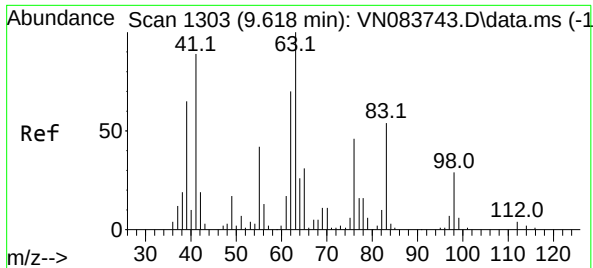
Delta R.T. -0.006 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Tgt Ion:130	Resp: 32354
Ion Ratio	Lower Upper
130 100	
95 102.3	0.0 200.4





#45

1,2-Dichloropropane

Concen: 19.795 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

VN0911WBS01

Tgt Ion: 63 Resp: 36229

Ion Ratio Lower Upper

63 100

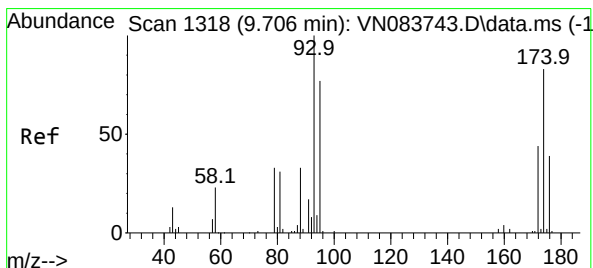
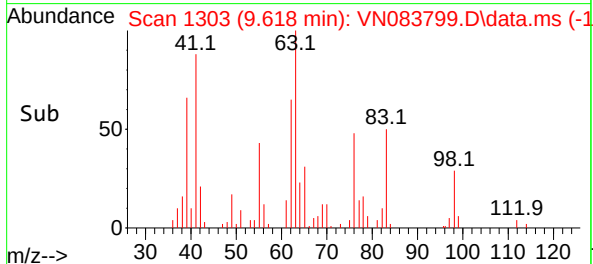
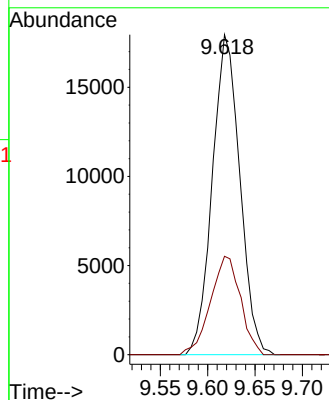
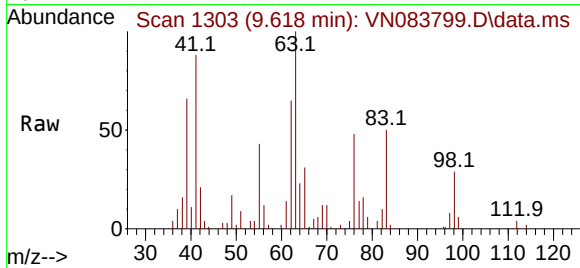
65 30.7 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#46

Dibromomethane

Concen: 19.308 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

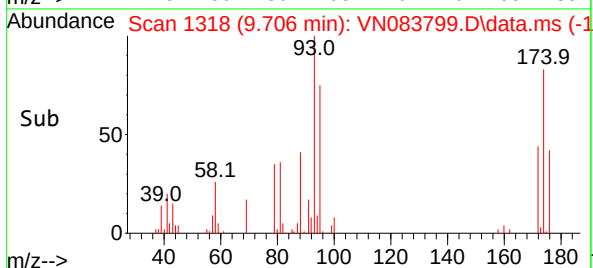
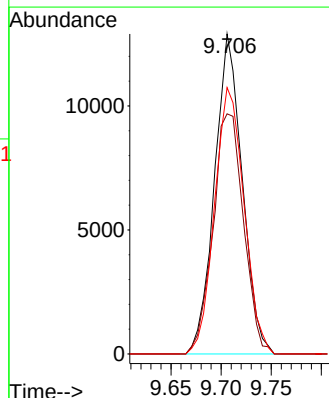
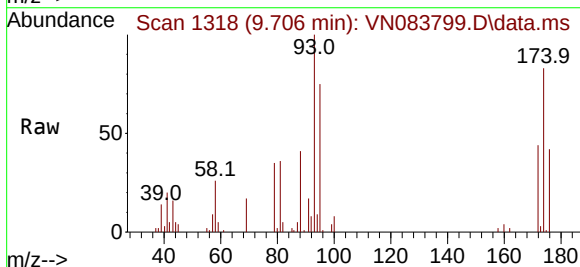
Tgt Ion: 93 Resp: 24752

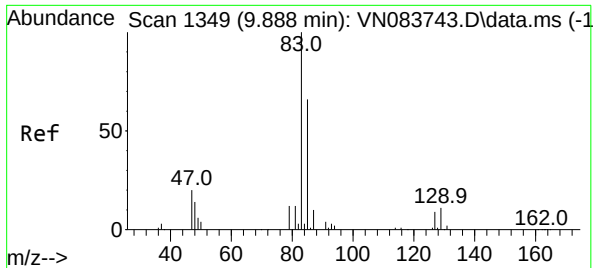
Ion Ratio Lower Upper

93 100

95 82.7 65.3 97.9

174 88.8 71.0 106.4





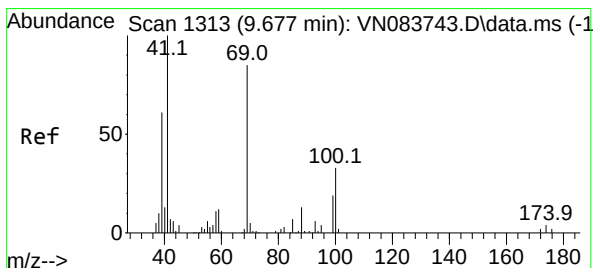
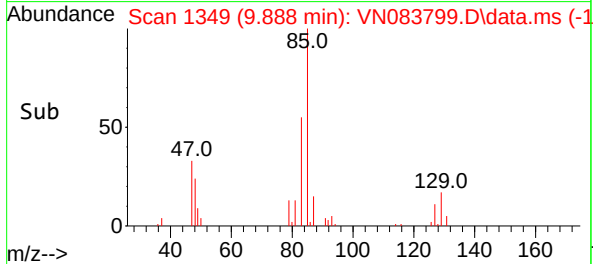
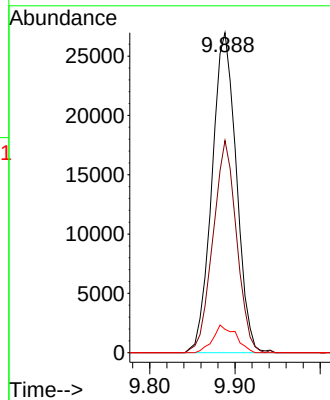
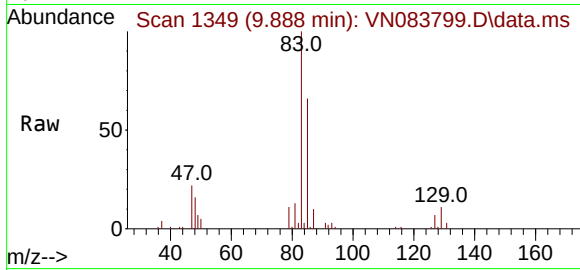
#47
Bromodichloromethane
Concen: 19.319 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Tgt Ion: 83 Resp: 5359
Ion Ratio Lower Upper
83 100
85 66.3 51.8 77.8
127 7.3 6.6 9.8

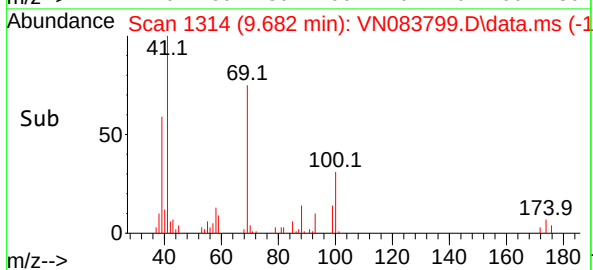
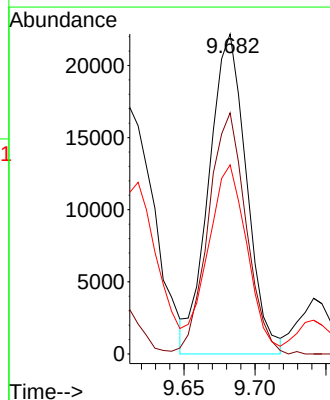
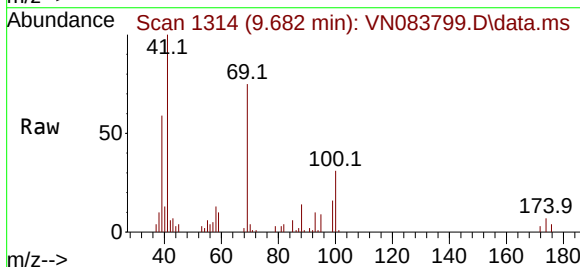
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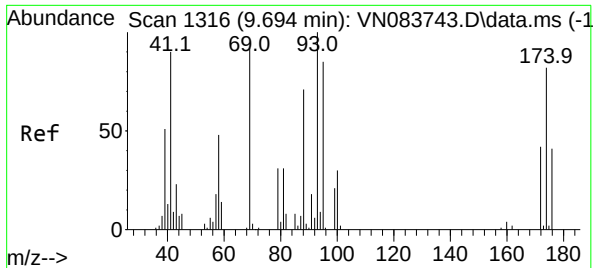
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#48
Methyl methacrylate
Concen: 20.860 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 41 Resp: 40956
Ion Ratio Lower Upper
41 100
69 75.4 64.3 96.5
39 62.0 48.9 73.3





#49

1,4-Dioxane

Concen: 423.334 ug/l

RT: 9.700 min Scan# 1316

Delta R.T. 0.006 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

VN0911WBS01

Tgt Ion: 88 Resp: 1367

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

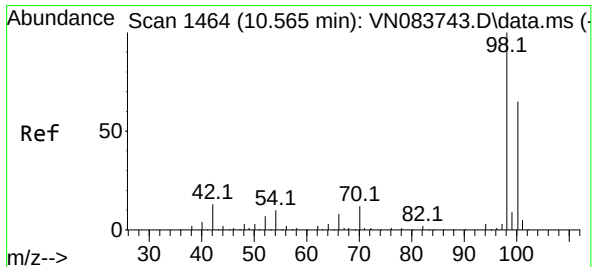
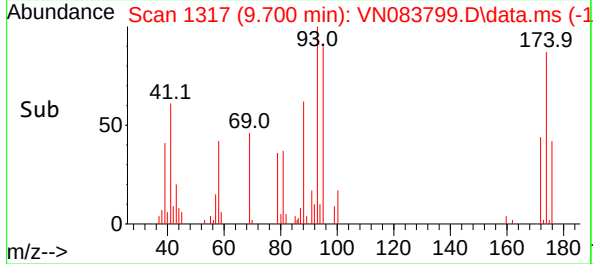
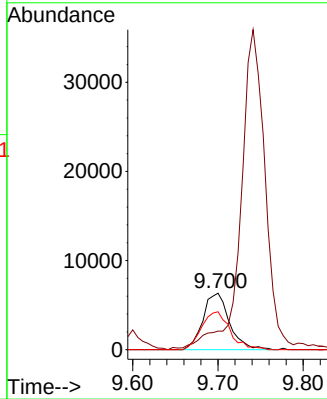
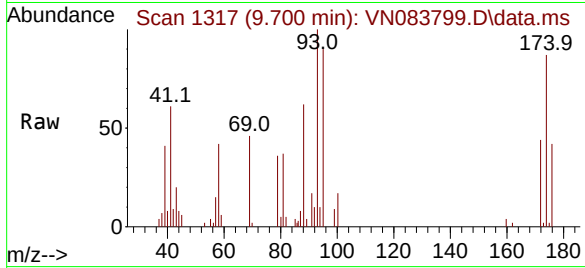
58 72.3 57.1 85.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#50

Toluene-d8

Concen: 51.473 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN083799.D

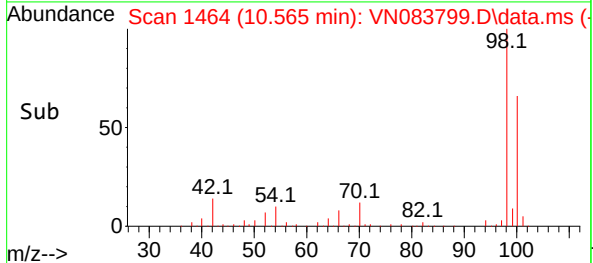
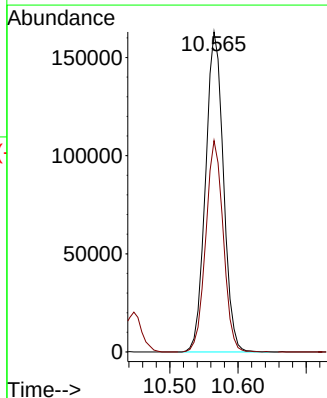
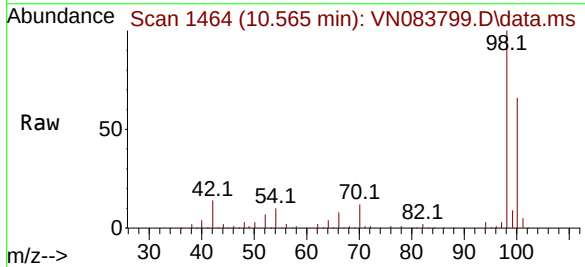
Acq: 11 Sep 2024 16:45

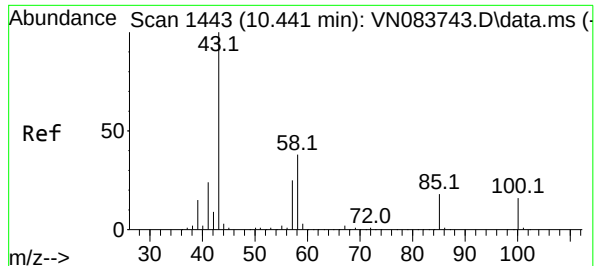
Tgt Ion: 98 Resp: 297437

Ion Ratio Lower Upper

98 100

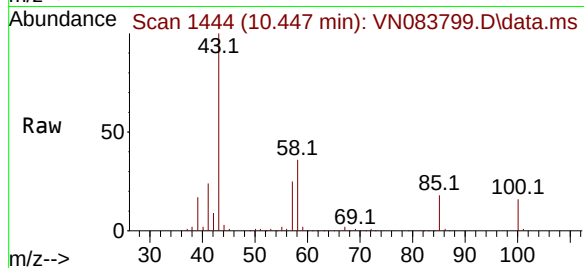
100 64.6 52.0 78.0





#51
4-Methyl-2-Pentanone
Concen: 105.630 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

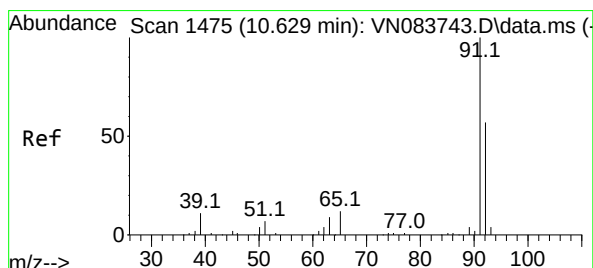
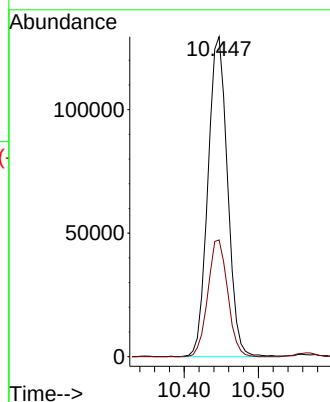
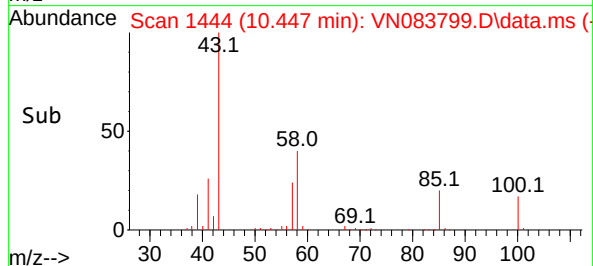
Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01



Tgt Ion: 43 Resp: 237950
Ion Ratio Lower Upper
43 100
58 36.9 31.6 47.4

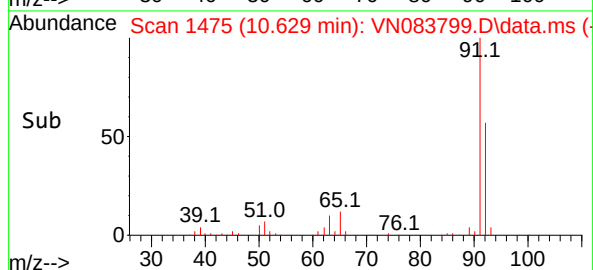
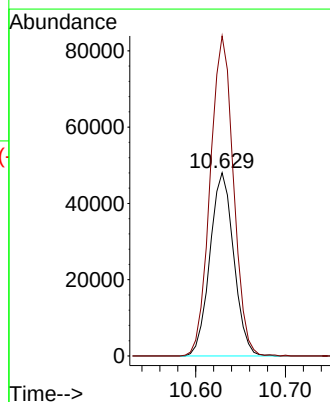
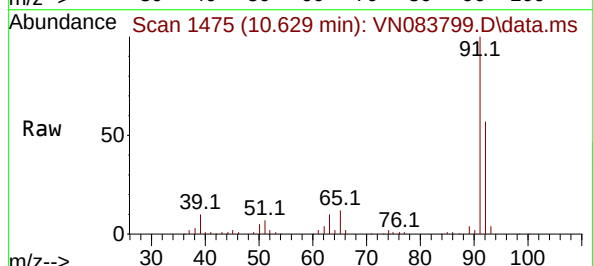
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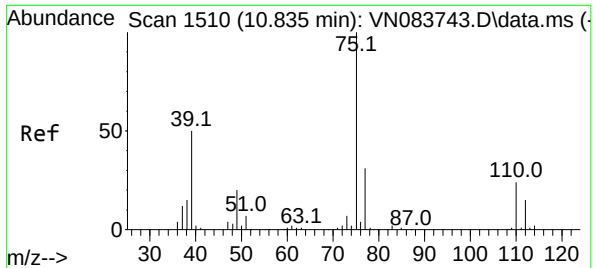
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#52
Toluene
Concen: 19.086 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

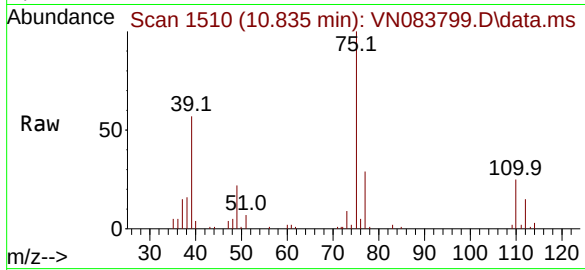
Tgt Ion: 92 Resp: 88404
Ion Ratio Lower Upper
92 100
91 171.2 134.7 202.1





#53
t-1,3-Dichloropropene
Concen: 18.435 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

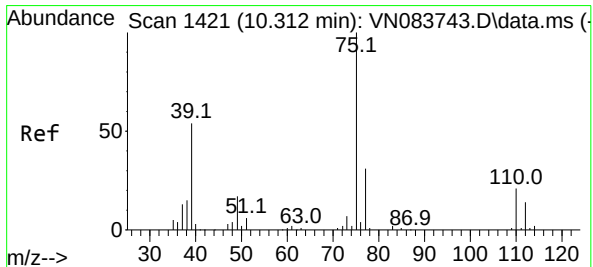
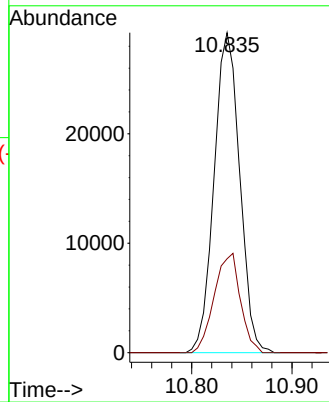
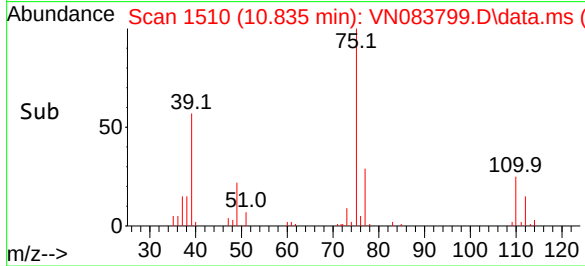
Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01



Tgt Ion: 75 Resp: 5184
Ion Ratio Lower Upper
75 100
77 29.4 25.8 38.6

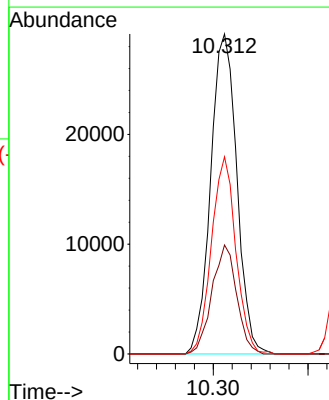
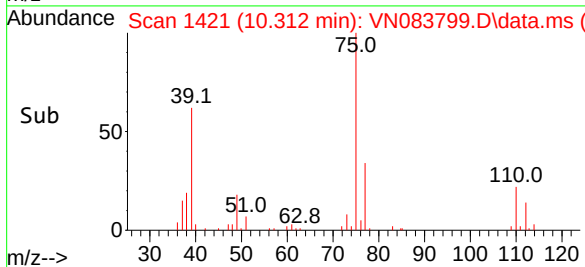
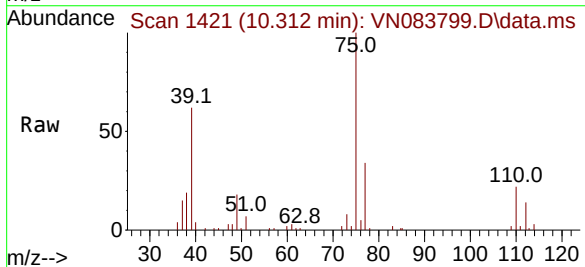
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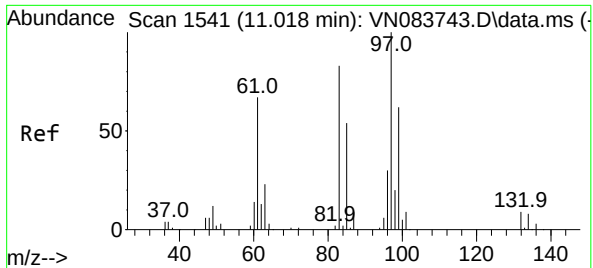
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#54
cis-1,3-Dichloropropene
Concen: 18.878 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 75 Resp: 55765
Ion Ratio Lower Upper
75 100
77 34.0 25.0 37.6
39 61.6 42.6 64.0





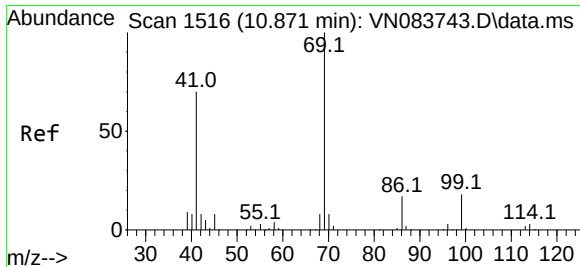
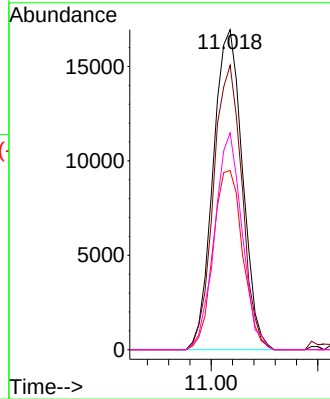
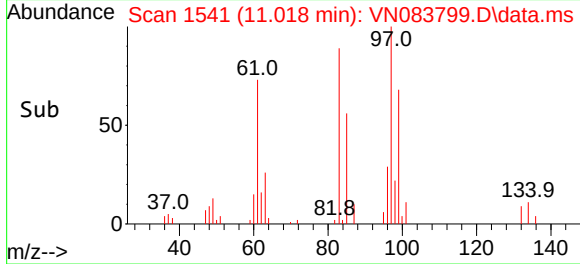
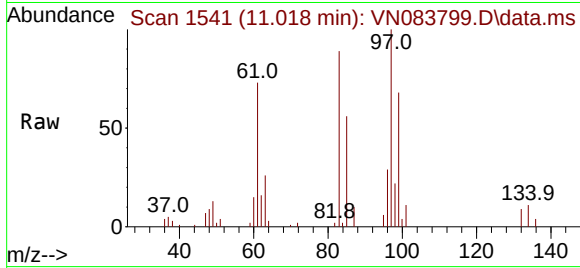
#55
1,1,2-Trichloroethane
Concen: 18.763 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Tgt Ion	Ratio	Lower	Upper
97	100		
83	88.8	67.5	101.3
85	56.0	44.2	66.2
99	67.8	50.1	75.1

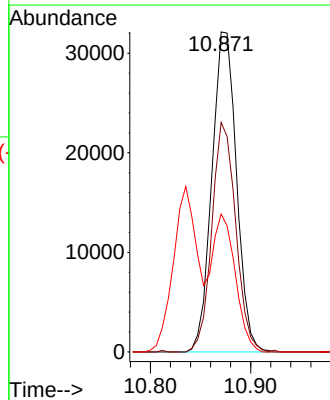
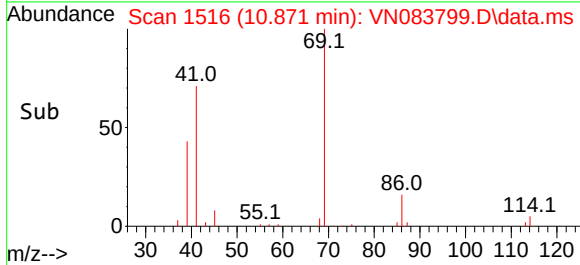
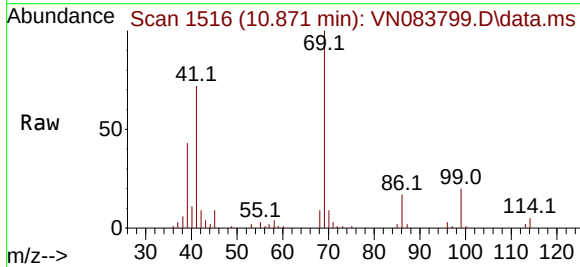
Manual Integrations
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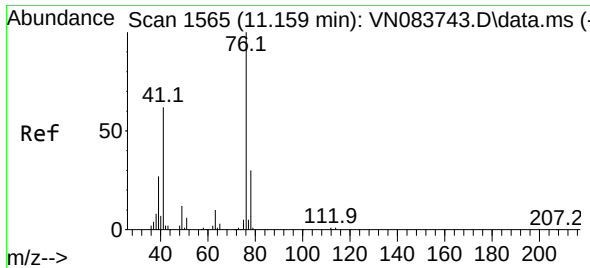
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#56
Ethyl methacrylate
Concen: 20.606 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion	Ratio	Lower	Upper
69	100		
41	69.7	53.9	80.9
39	41.6	32.6	48.8





#57

1,3-Dichloropropane

Concen: 20.058 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. 0.006 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

VN0911WBS01

Tgt Ion: 76 Resp: 5961

Ion Ratio Lower Upper

76 100

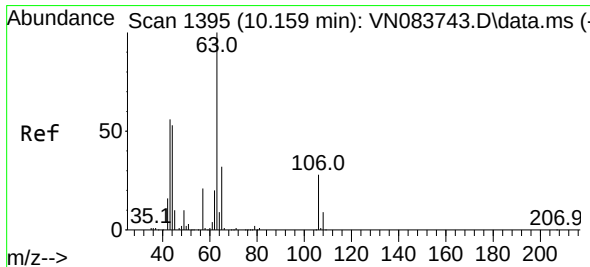
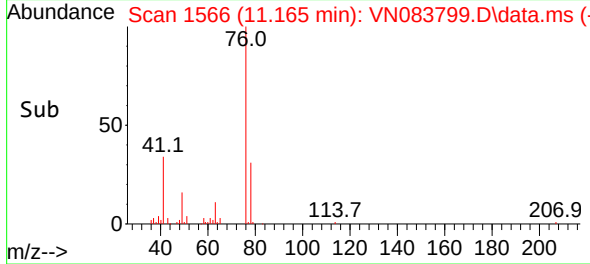
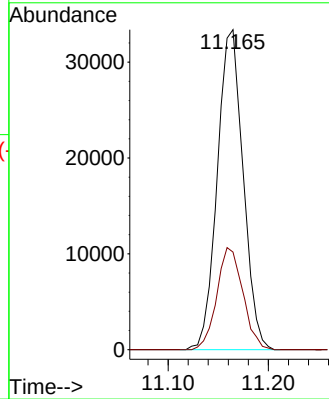
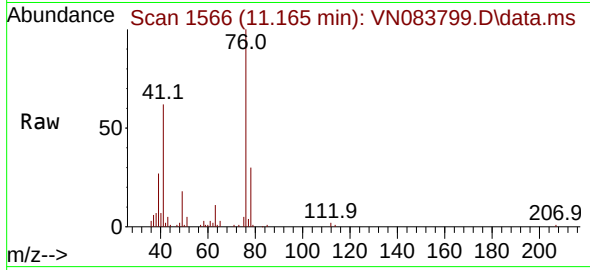
78 32.2 25.8 38.6

Manual Integrations

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Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#58

2-Chloroethyl Vinyl ether

Concen: 107.165 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN083799.D

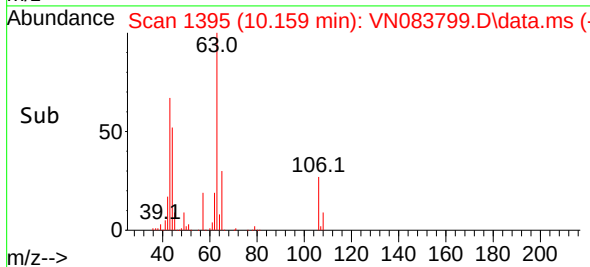
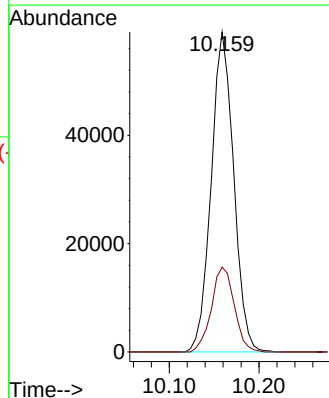
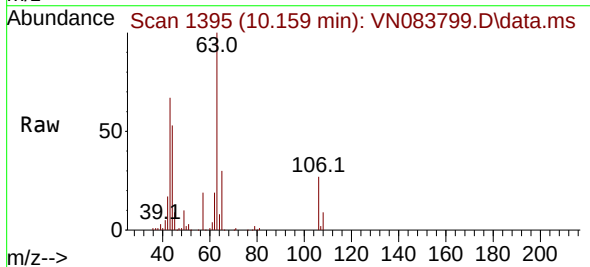
Acq: 11 Sep 2024 16:45

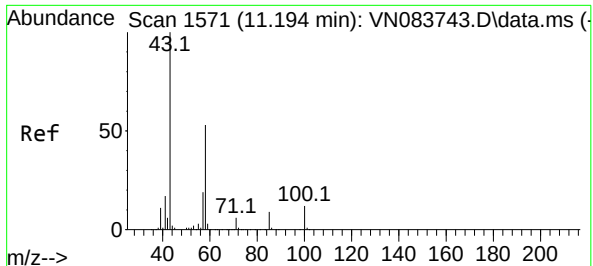
Tgt Ion: 63 Resp: 102730

Ion Ratio Lower Upper

63 100

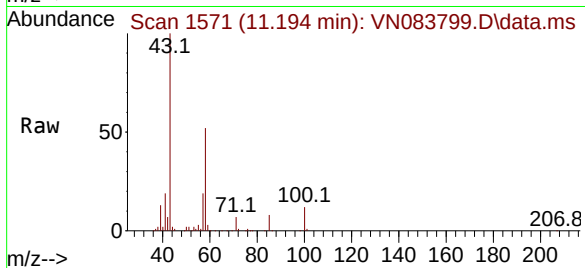
106 26.9 23.3 34.9





#59
2-Hexanone
Concen: 104.267 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

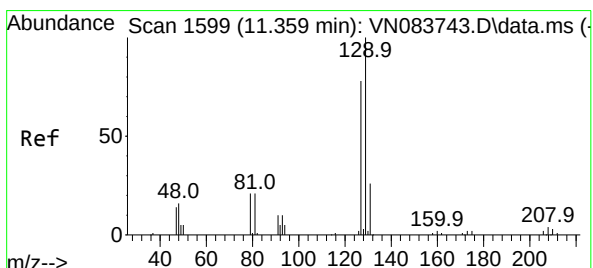
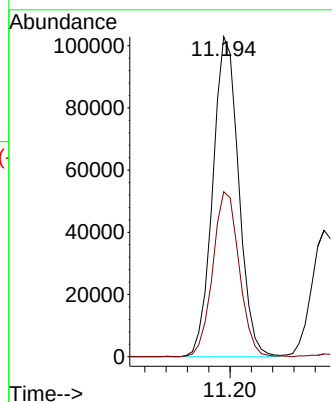
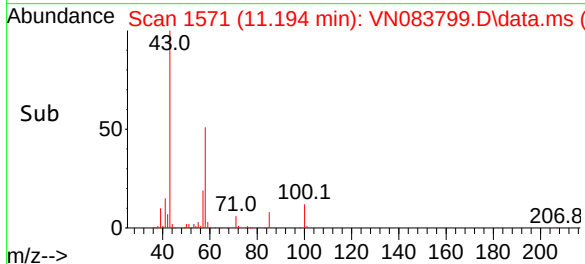
Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01



Tgt Ion: 43 Resp: 173745
Ion Ratio Lower Upper
43 100
58 52.5 27.2 81.5

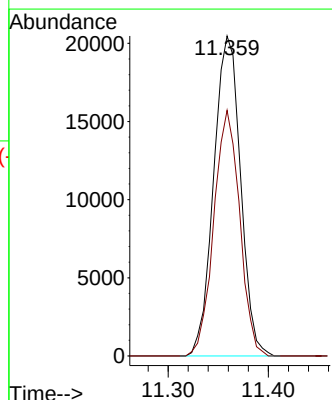
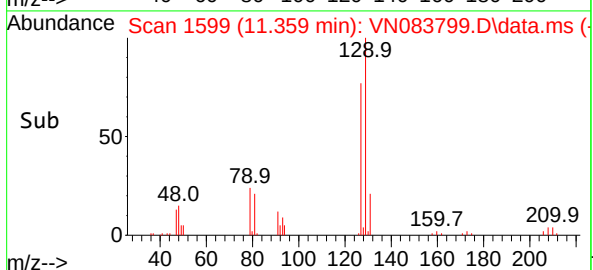
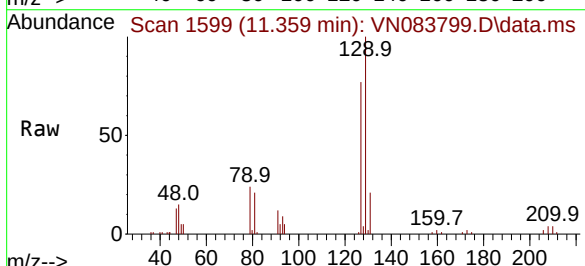
Manual Integrations
APPROVED

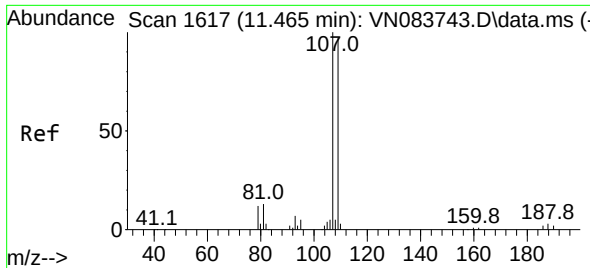
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#60
Dibromochloromethane
Concen: 19.688 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:129 Resp: 38100
Ion Ratio Lower Upper
129 100
127 73.8 39.0 116.9





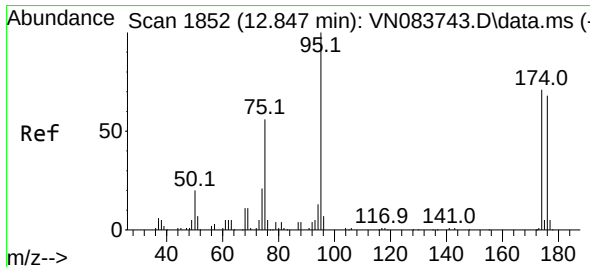
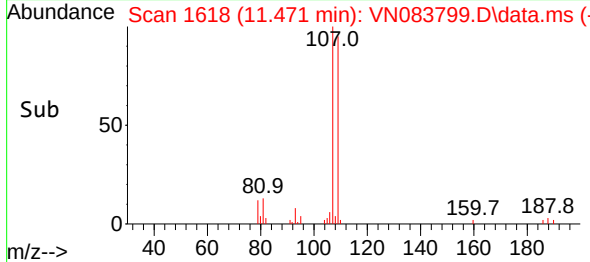
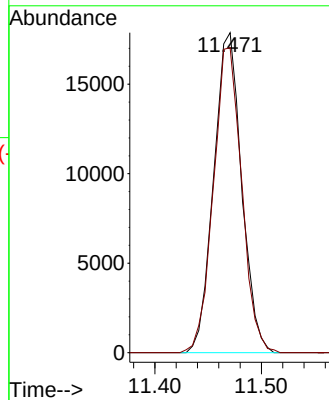
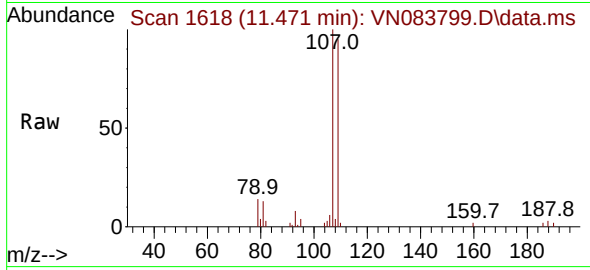
#61
1,2-Dibromoethane
Concen: 18.846 ug/l
RT: 11.471 min Scan# 1617
Delta R.T. 0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Tgt Ion:107 Resp: 32500
Ion Ratio Lower Upper
107 100
109 96.6 75.6 113.4

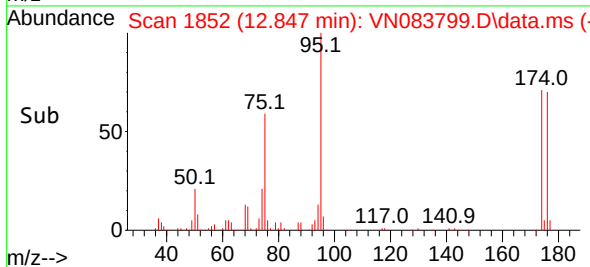
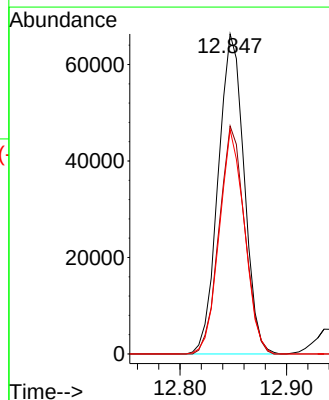
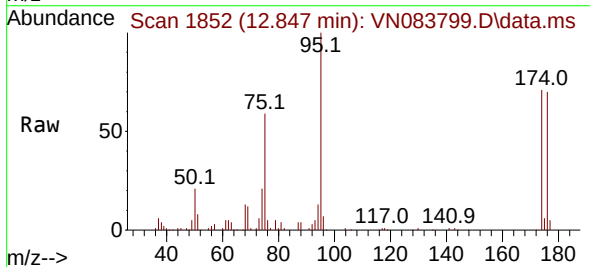
Manual Integrations
APPROVED

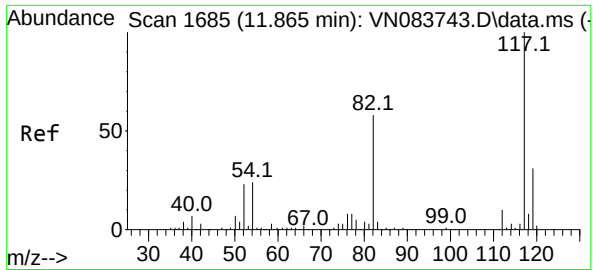
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#62
4-Bromofluorobenzene
Concen: 47.029 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

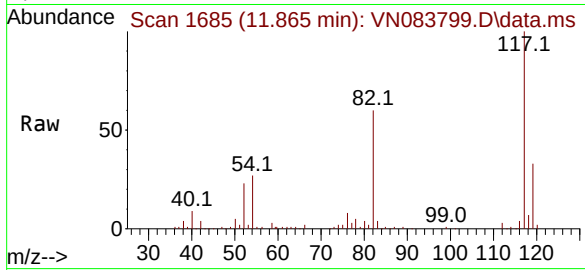
Tgt Ion: 95 Resp: 112119
Ion Ratio Lower Upper
95 100
174 70.3 0.0 139.8
176 68.1 0.0 131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

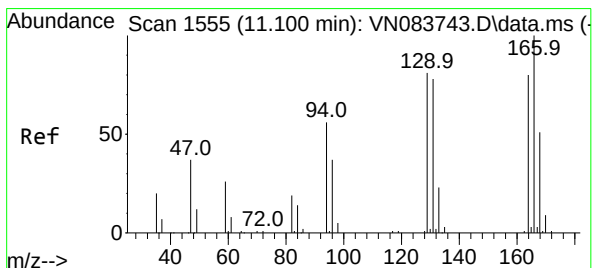
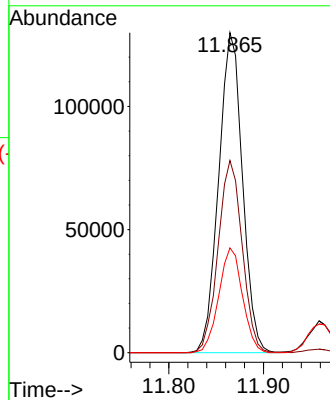
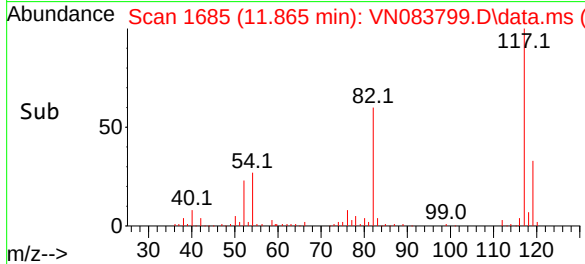
Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01



Tgt Ion:117 Resp: 22720
Ion Ratio Lower Upper
117 100
82 60.0 47.4 71.0
119 32.8 26.3 39.5

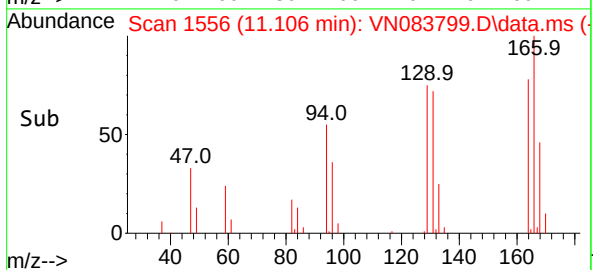
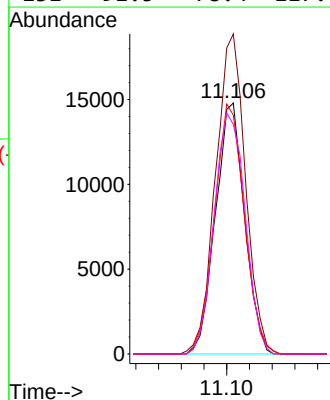
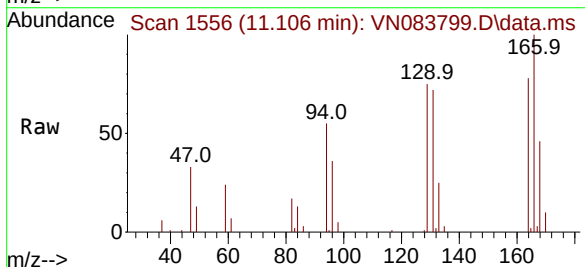
Manual Integrations
APPROVED

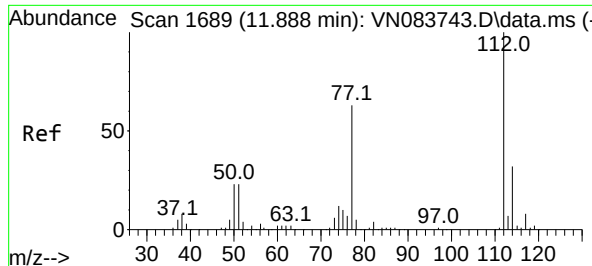
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#64
Tetrachloroethene
Concen: 17.413 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:164 Resp: 26310
Ion Ratio Lower Upper
164 100
166 127.5 103.7 155.5
129 95.2 79.9 119.9
131 91.5 78.4 117.6





#65

Chlorobenzene

Concen: 18.063 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

VN0911WBS01

Tgt Ion:112 Resp: 9121

Ion Ratio Lower Upper

112 100

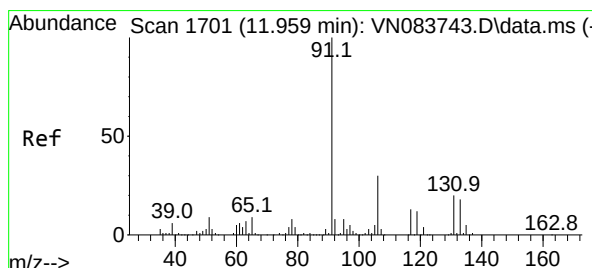
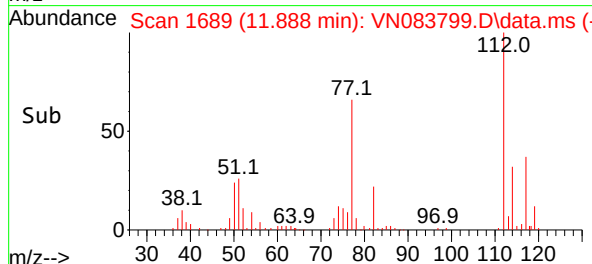
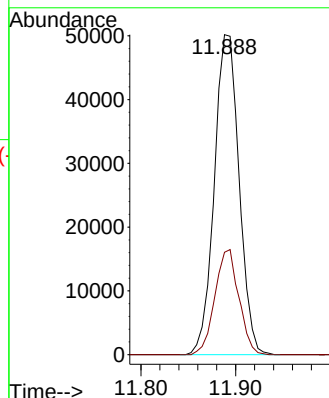
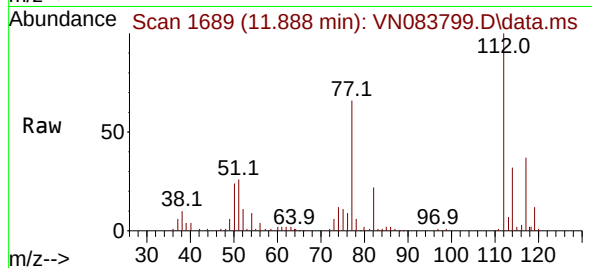
114 32.0 25.7 38.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 18.953 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

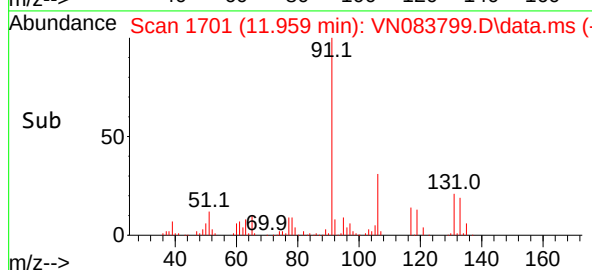
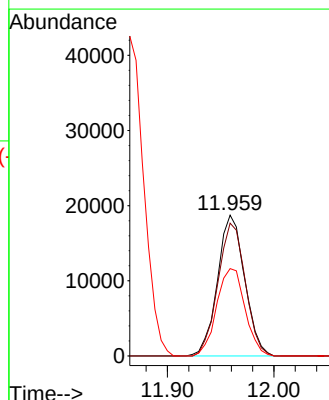
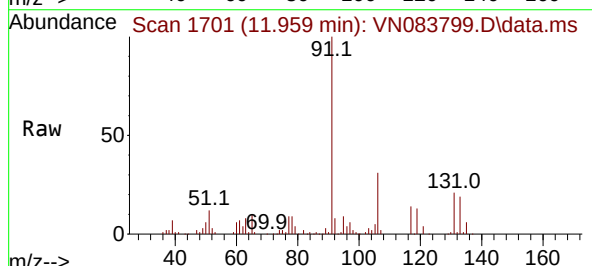
Tgt Ion:131 Resp: 33178

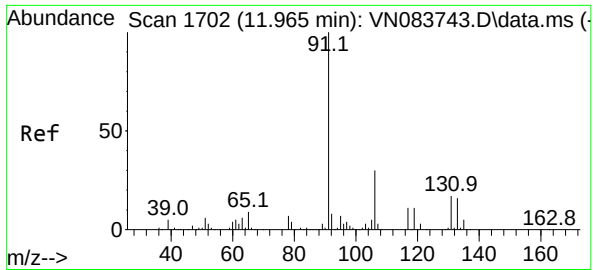
Ion Ratio Lower Upper

131 100

133 94.7 47.5 142.6

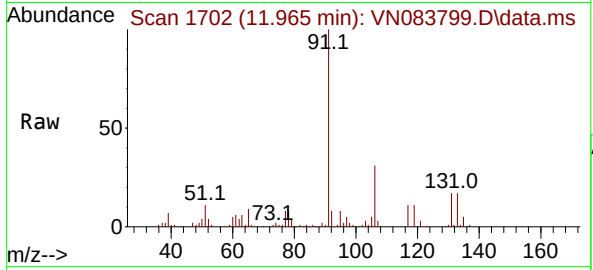
119 64.6 31.6 94.8





#67
Ethyl Benzene
Concen: 18.571 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

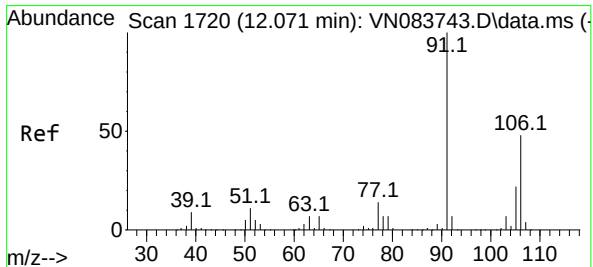
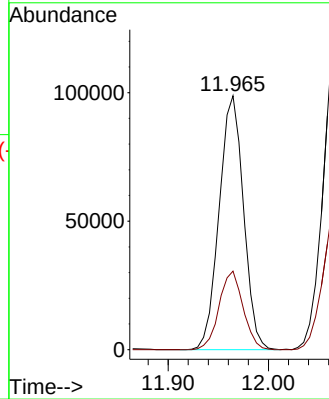
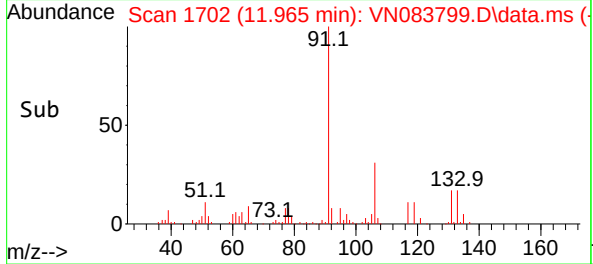
Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01



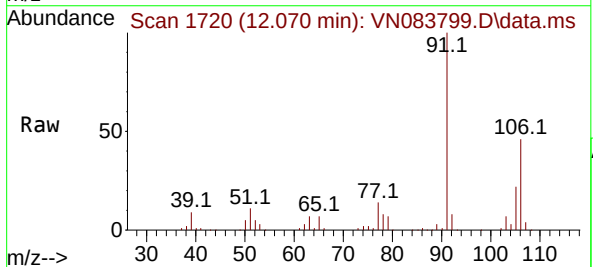
Tgt Ion: 91 Resp: 166588
Ion Ratio Lower Upper
91 100
106 30.9 24.3 36.5

Manual Integrations
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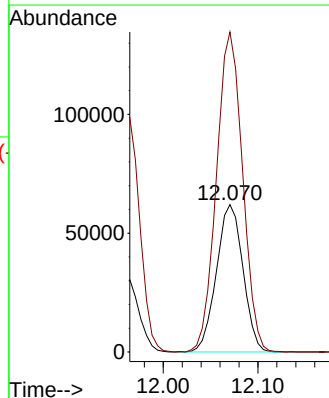
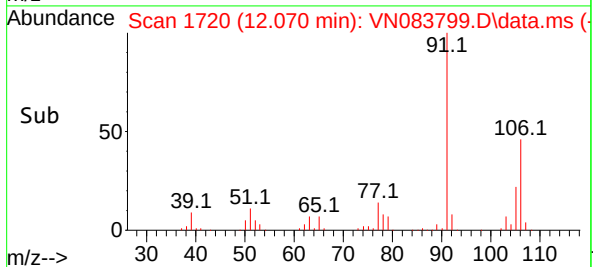
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

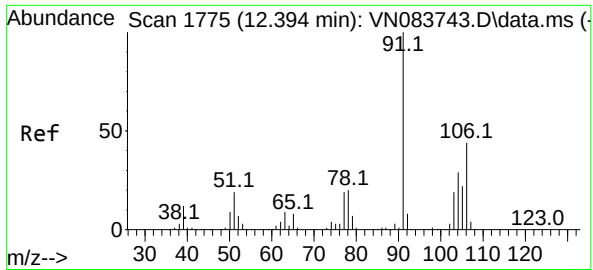


#68
m/p-Xylenes
Concen: 36.242 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45



Tgt Ion:106 Resp: 120699
Ion Ratio Lower Upper
106 100
91 214.4 169.2 253.8





#69

o-Xylene

Concen: 18.318 ug/l

RT: 12.400 min Scan# 1775

Delta R.T. 0.006 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

VN0911WBS01

Tgt Ion:106 Resp: 59058

Ion Ratio Lower Upper

106 100

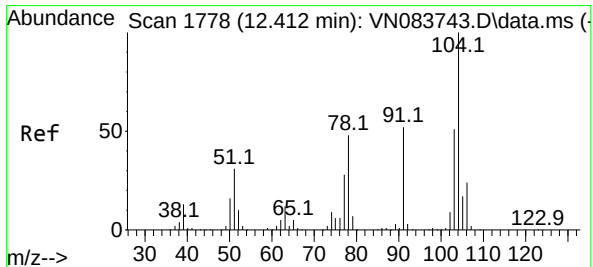
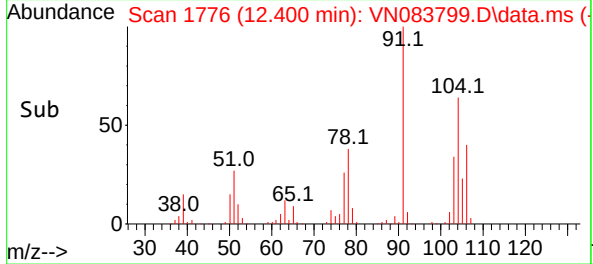
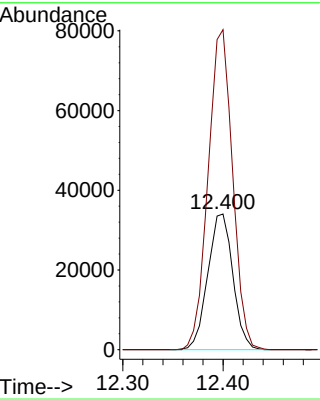
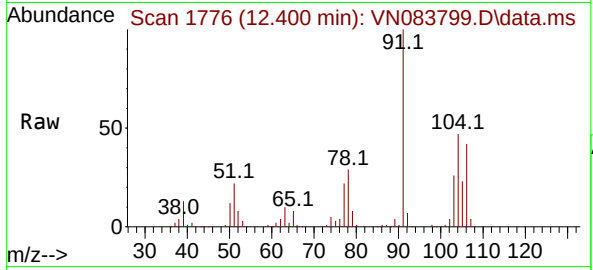
91 230.2 112.9 338.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#70

Styrene

Concen: 19.140 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

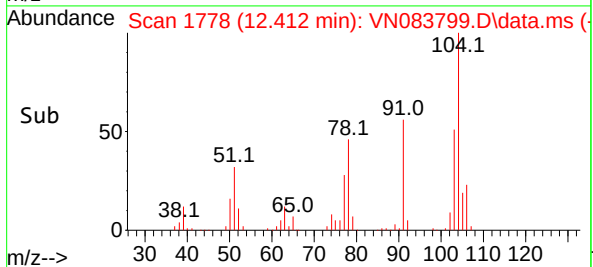
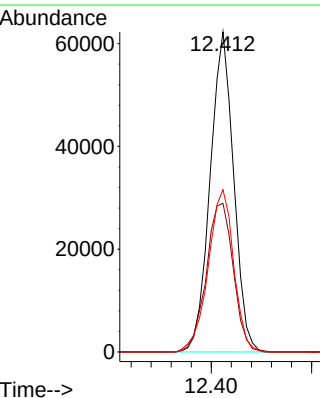
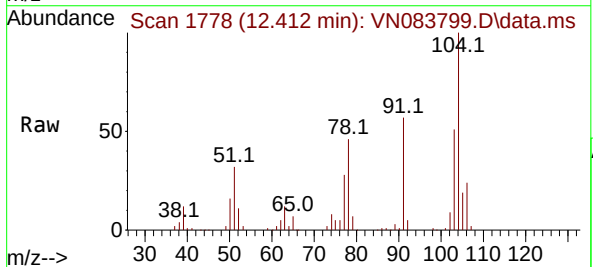
Tgt Ion:104 Resp: 101275

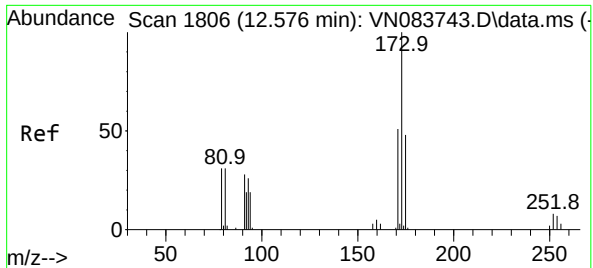
Ion Ratio Lower Upper

104 100

78 53.7 43.3 64.9

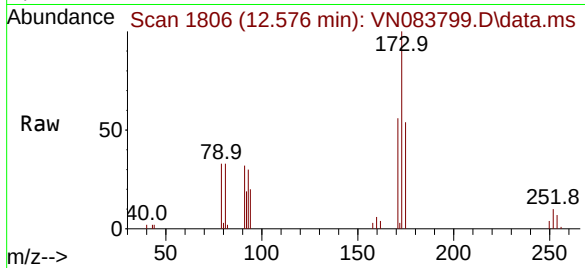
103 54.7 43.4 65.2





#71
Bromoform
Concen: 20.175 ug/l
RT: 12.576 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

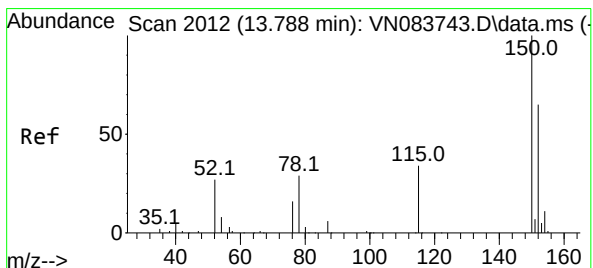
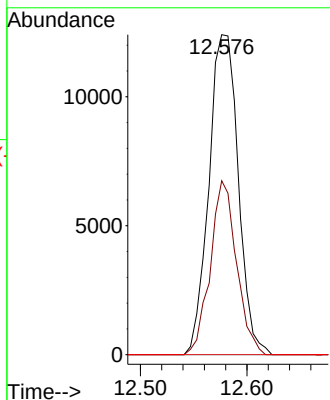
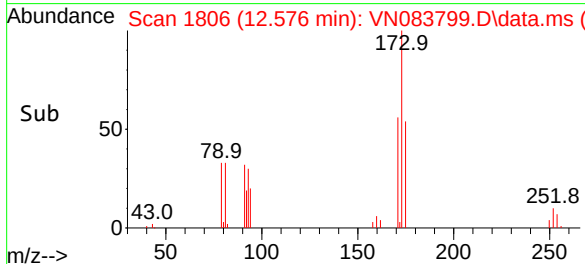
Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01



Tgt Ion:173 Resp: 23799
Ion Ratio Lower Upper
173 100
175 48.5 24.1 72.2
254 0.0 0.0 0.0

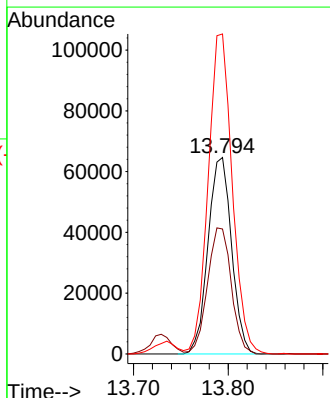
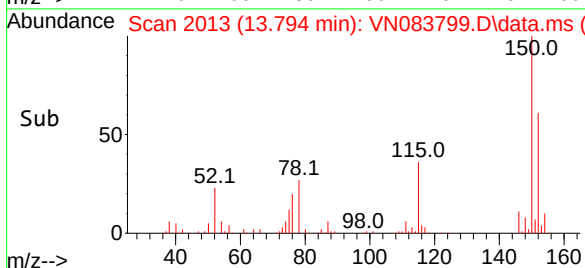
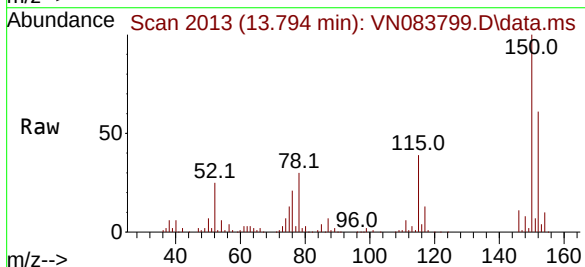
Manual Integrations
APPROVED

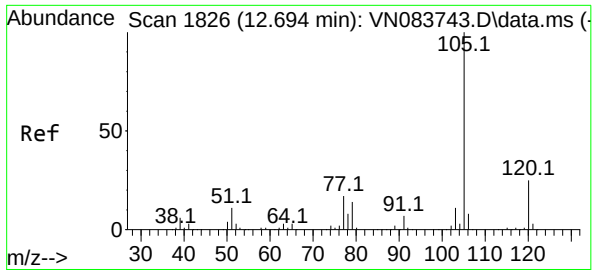
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

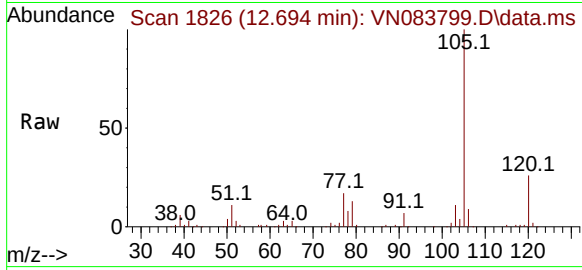
Tgt Ion:152 Resp: 111791
Ion Ratio Lower Upper
152 100
115 64.8 32.2 96.6
150 166.4 0.0 348.6





#73
Isopropylbenzene
Concen: 17.900 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

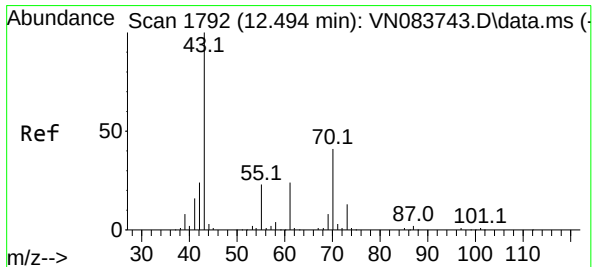
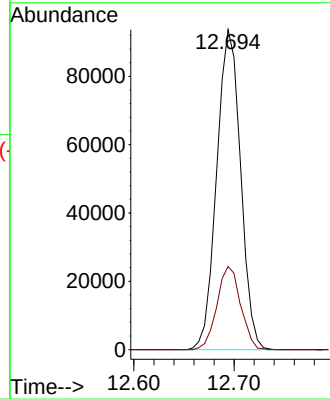
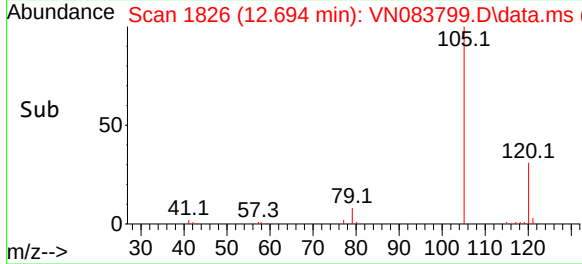
Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01



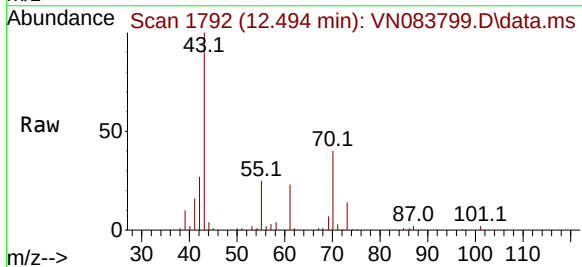
Tgt Ion:105 Resp: 15481
Ion Ratio Lower Upper
105 100
120 25.7 12.6 37.8

Manual Integrations
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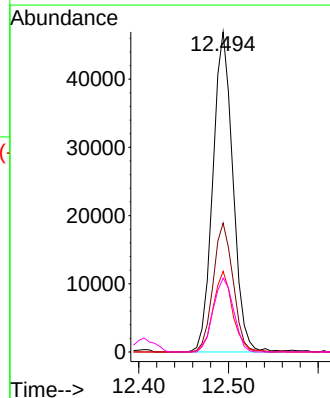
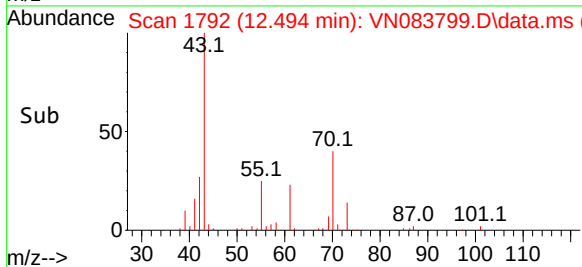
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

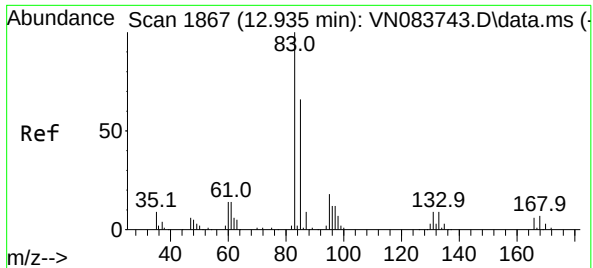


#74
N-ethyl acetate
Concen: 19.746 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45



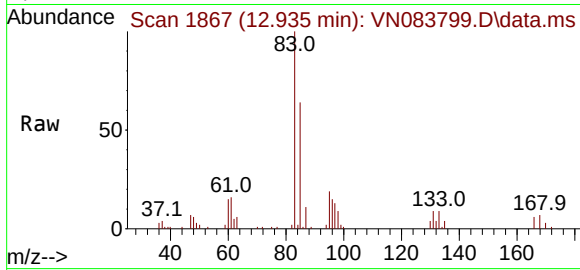
Tgt Ion: 43 Resp: 72864
Ion Ratio Lower Upper
43 100
70 39.9 34.5 51.7
55 24.4 18.6 28.0
61 23.3 19.2 28.8





#75
1,1,2,2-Tetrachloroethane
Concen: 18.762 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

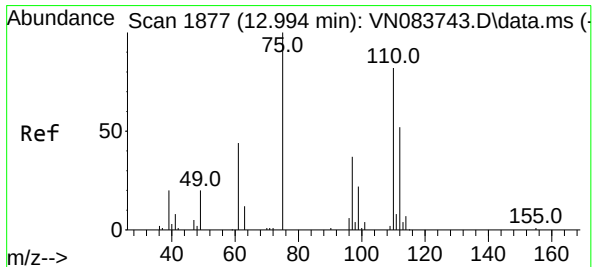
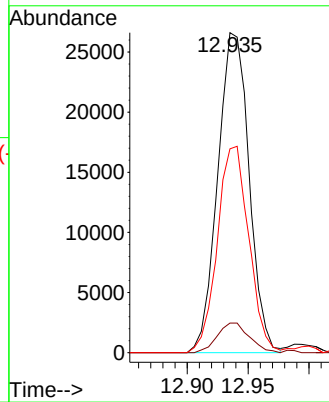
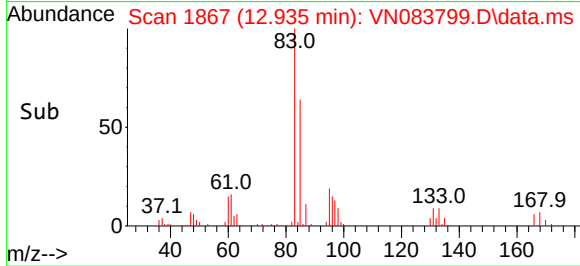
Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01



Tgt Ion: 83 Resp: 4767
Ion Ratio Lower Upper
83 100
131 9.5 5.2 15.6
85 64.7 31.9 95.9

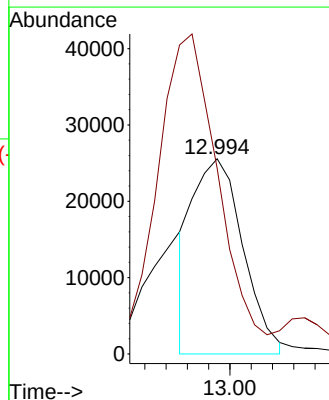
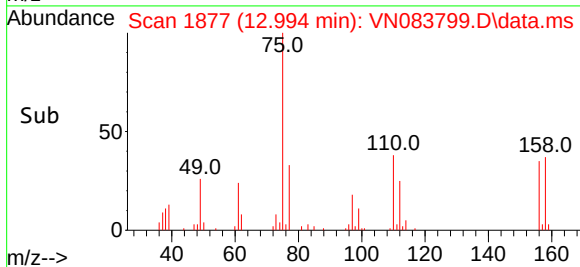
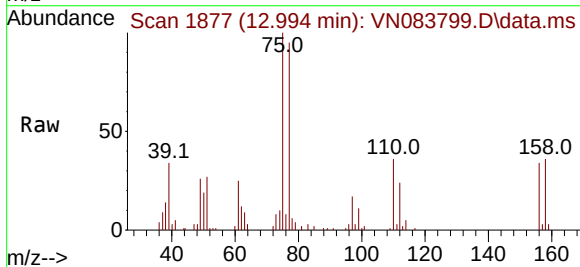
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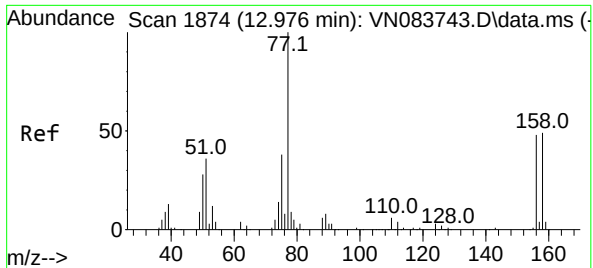
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#76
1,2,3-Trichloropropane
Concen: 18.710 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

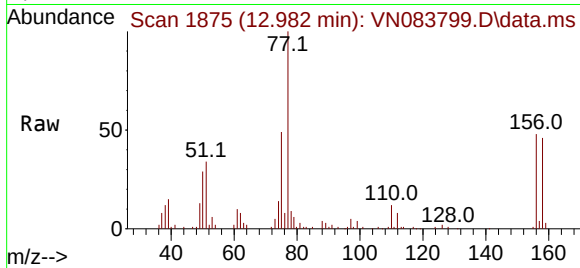
Tgt Ion: 75 Resp: 42204
Ion Ratio Lower Upper
75 100
77 198.8 95.2 285.6





#77
Bromobenzene
Concen: 17.343 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

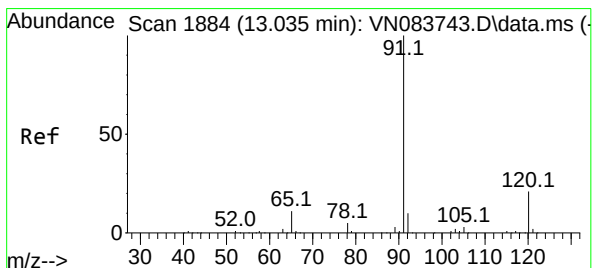
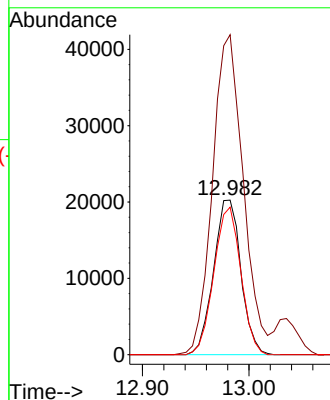
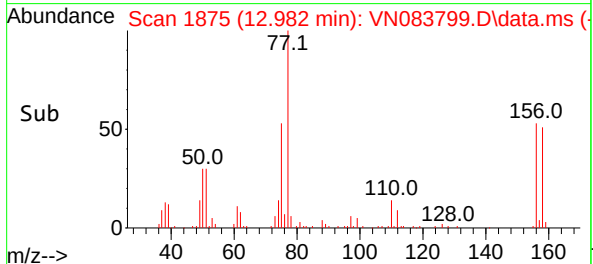
Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01



Tgt Ion:156 Resp: 36100
Ion Ratio Lower Upper
156 100
77 232.3 114.3 343.1
158 94.0 48.9 146.7

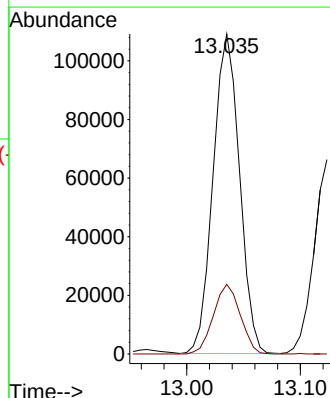
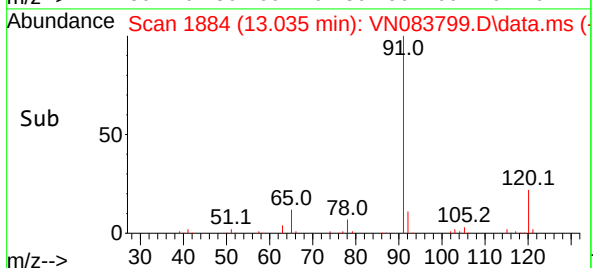
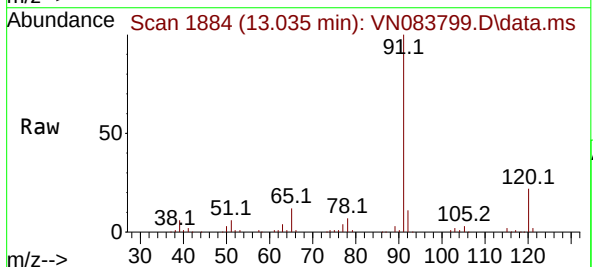
Manual Integrations
APPROVED

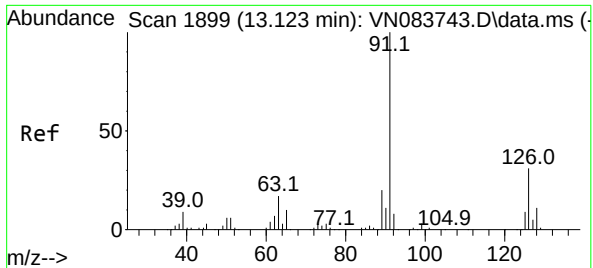
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#78
n-propylbenzene
Concen: 17.490 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 91 Resp: 176000
Ion Ratio Lower Upper
91 100
120 22.1 11.0 33.0





#79

2-Chlorotoluene

Concen: 18.128 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

VN0911WBS01

Tgt Ion: 91 Resp: 11634

Ion Ratio Lower Upper

91 100

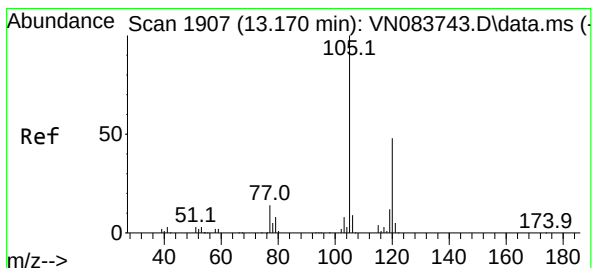
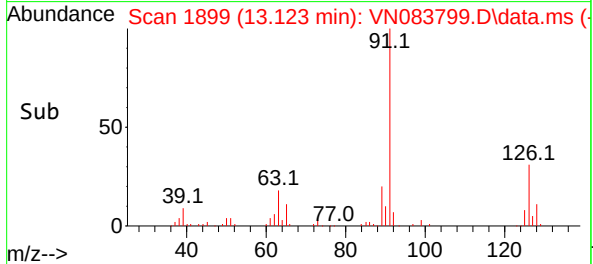
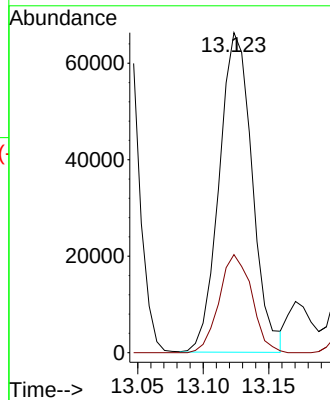
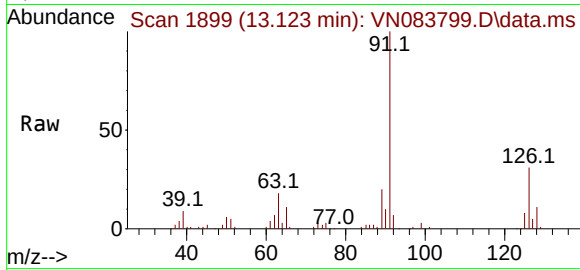
126 30.2 15.4 46.2

Manual Integrations

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Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#80

1,3,5-Trimethylbenzene

Concen: 18.309 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN083799.D

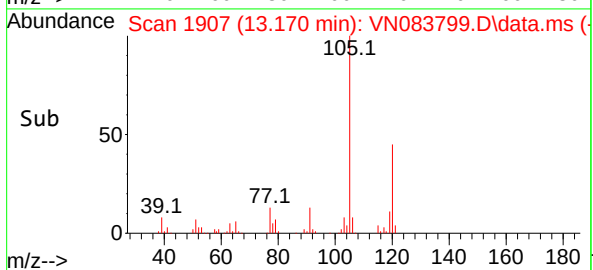
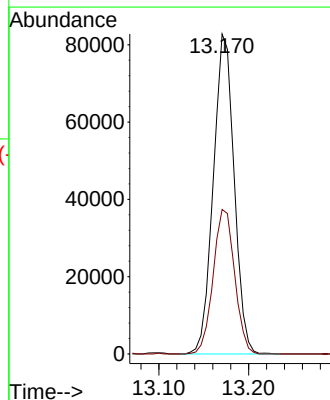
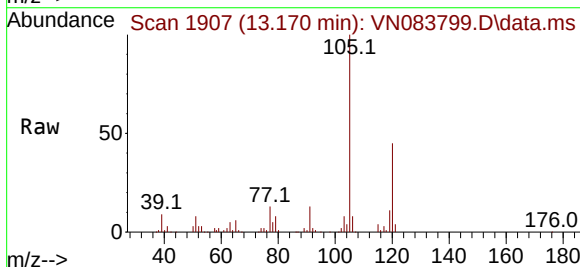
Acq: 11 Sep 2024 16:45

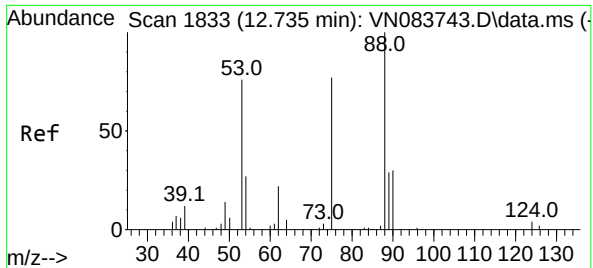
Tgt Ion:105 Resp: 133503

Ion Ratio Lower Upper

105 100

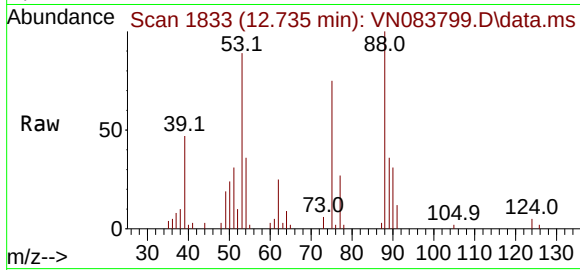
120 46.5 23.4 70.3





#81
trans-1,4-Dichloro-2-butene
Concen: 17.897 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

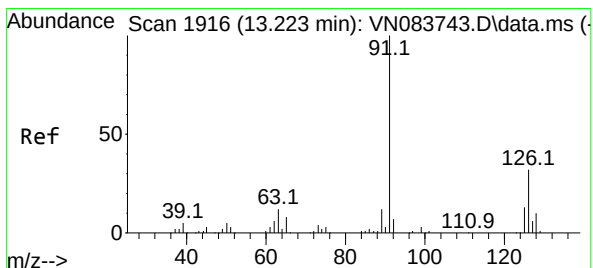
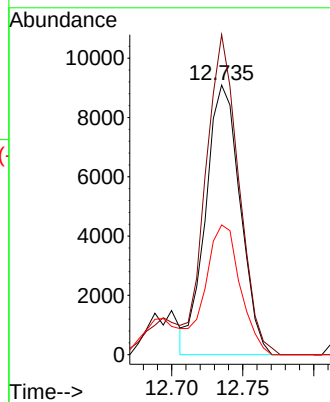
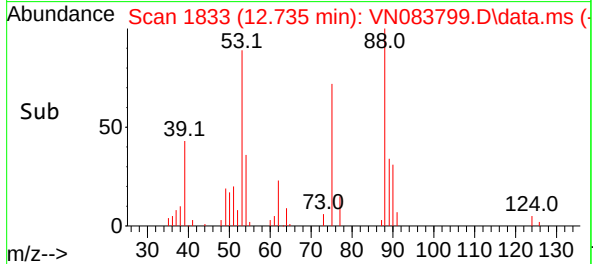
Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01



Tgt Ion: 75 Resp: 15414
Ion Ratio Lower Upper
75 100
53 113.8 81.2 121.8
89 49.4 35.7 53.5

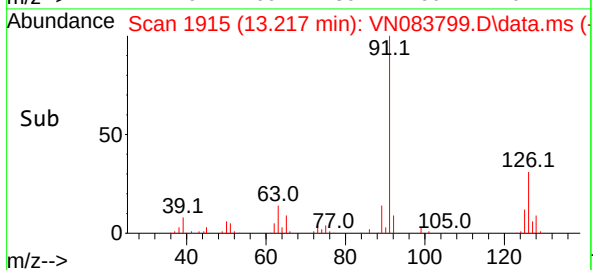
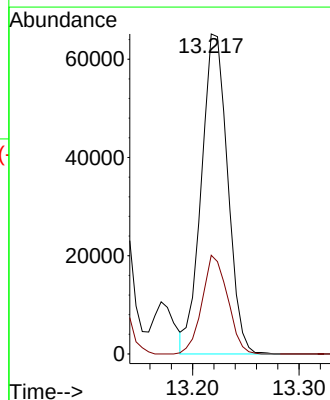
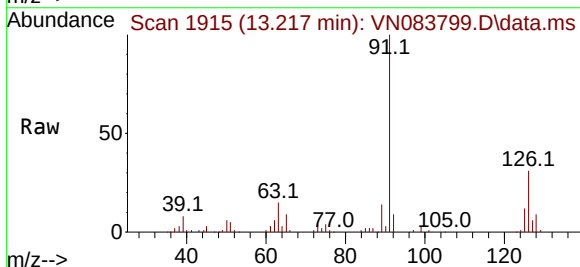
Manual Integrations
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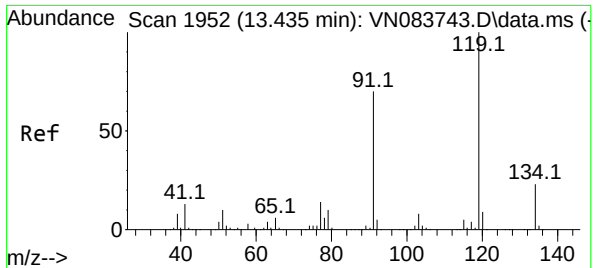
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#82
4-Chlorotoluene
Concen: 17.397 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

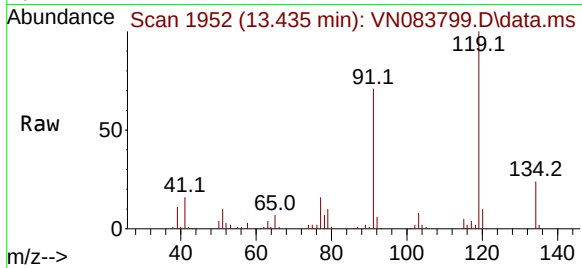
Tgt Ion: 91 Resp: 112039
Ion Ratio Lower Upper
91 100
126 29.9 15.4 46.2





#83
tert-Butylbenzene
Concen: 18.281 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

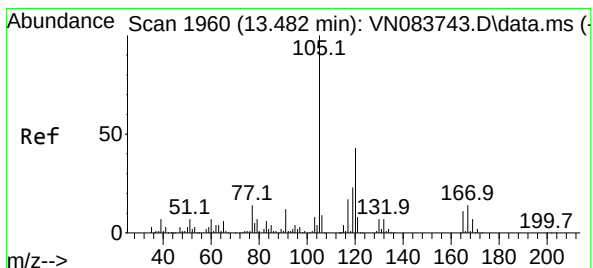
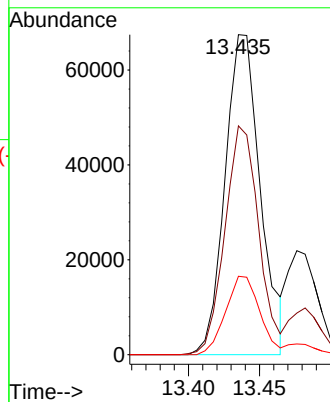
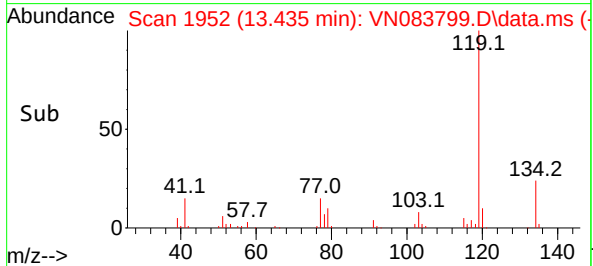
Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01



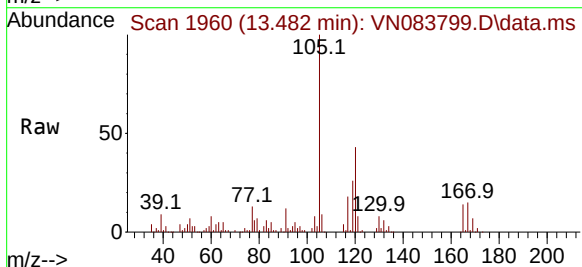
Tgt Ion:119 Resp: 11662
Ion Ratio Lower Upper
119 100
91 68.6 34.5 103.6
134 23.7 12.8 38.4

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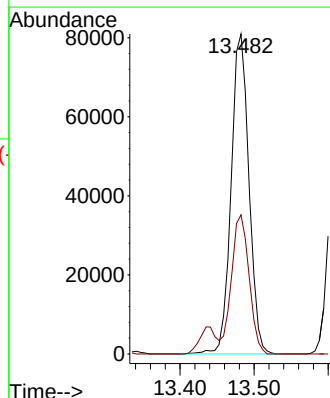
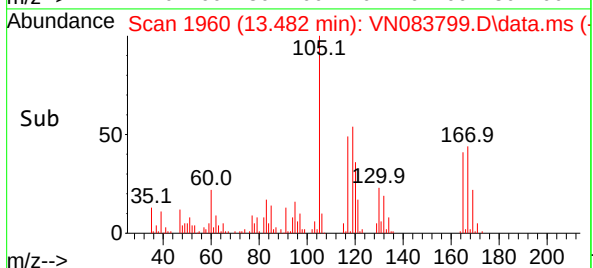
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

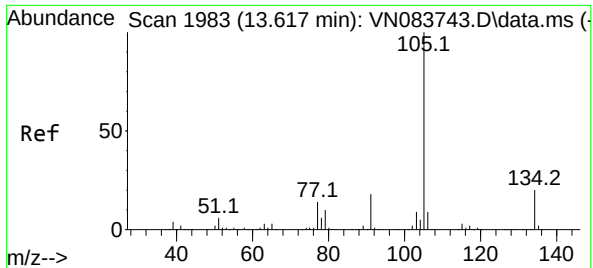


#84
1,2,4-Trimethylbenzene
Concen: 18.389 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45



Tgt Ion:105 Resp: 134697
Ion Ratio Lower Upper
105 100
120 43.2 21.8 65.4





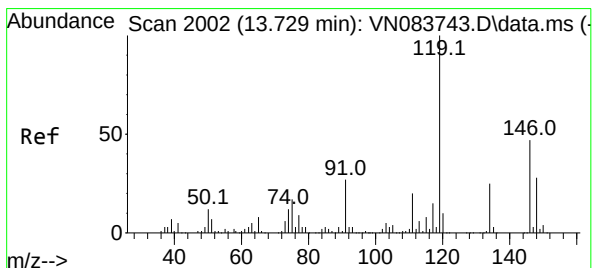
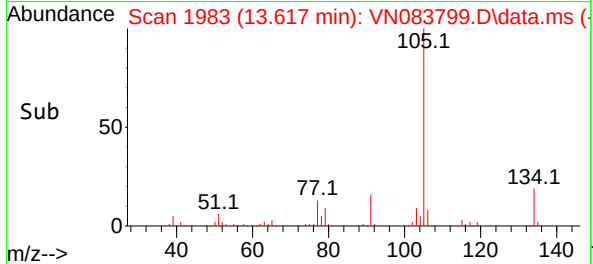
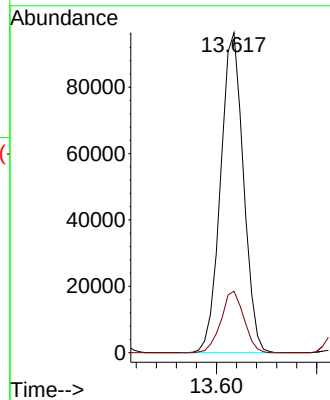
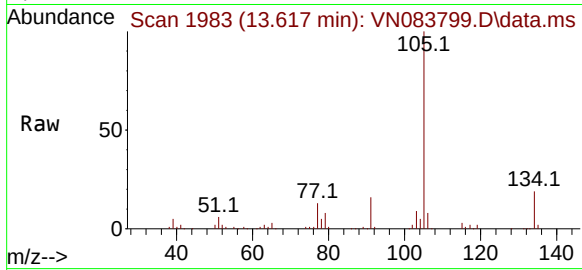
#85
 sec-Butylbenzene
 Concen: 17.995 ug/l
 RT: 13.617 min Scan# 1983
 Delta R.T. -0.000 min
 Lab File: VN083799.D
 Acq: 11 Sep 2024 16:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0911WBS01

Tgt Ion:105 Resp: 15225
 Ion Ratio Lower Upper
 105 100
 134 19.3 9.7 29.1

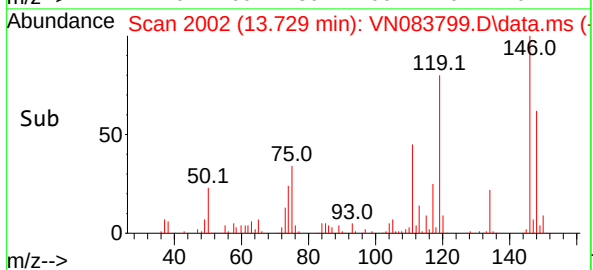
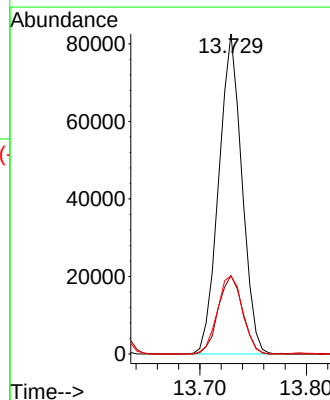
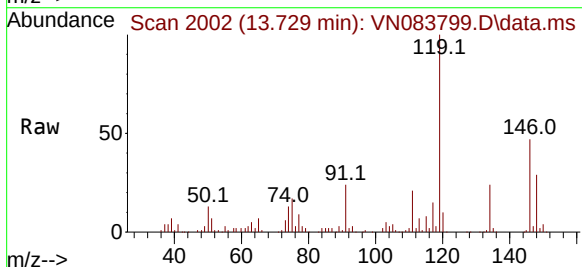
Manual Integrations
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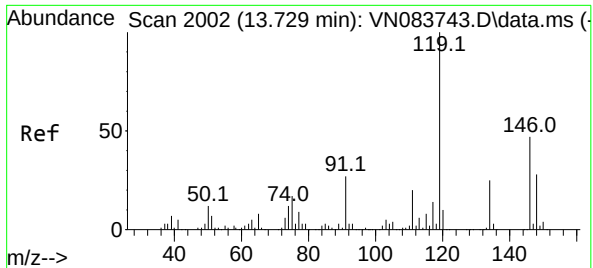
Reviewed By :John Carlone 09/12/2024
 Supervised By :Mahesh Dadoda 09/12/2024



#86
 p-Isopropyltoluene
 Concen: 17.556 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN083799.D
 Acq: 11 Sep 2024 16:45

Tgt Ion:119 Resp: 124511
 Ion Ratio Lower Upper
 119 100
 134 25.6 12.8 38.3
 91 26.4 12.9 38.7





#87

1,3-Dichlorobenzene

Concen: 16.714 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

VN0911WBS01

Tgt Ion:146 Resp: 6566

Ion Ratio Lower Upper

146 100

111 43.8 21.7 65.1

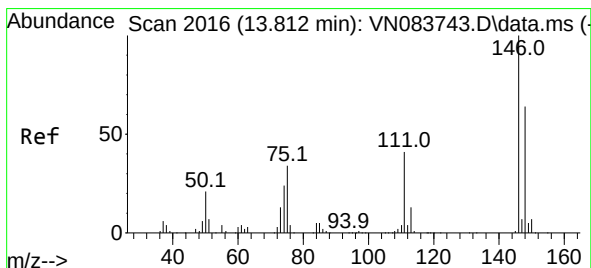
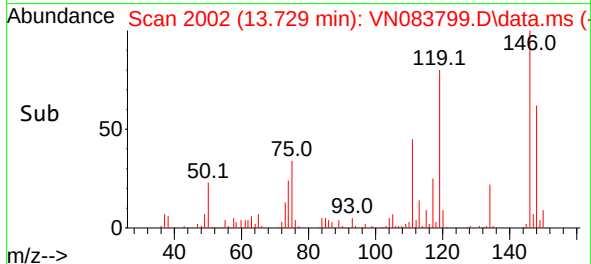
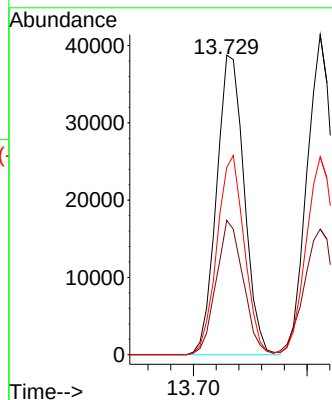
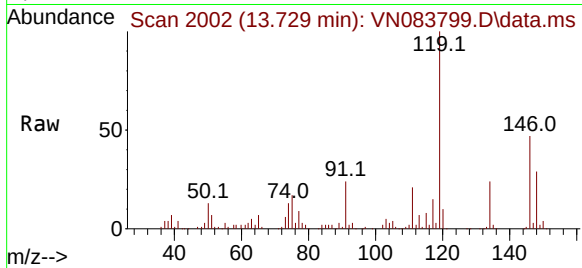
148 65.7 31.7 95.1

Manual Integrations

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Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#88

1,4-Dichlorobenzene

Concen: 16.831 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

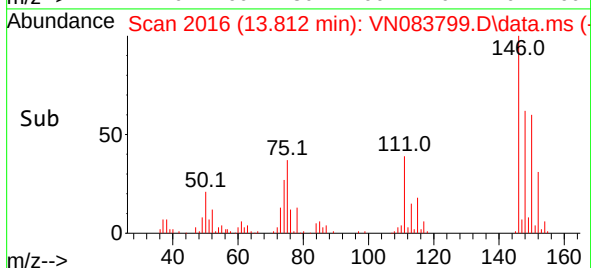
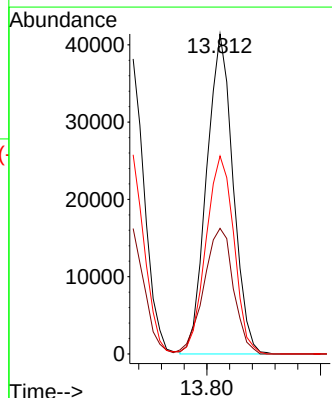
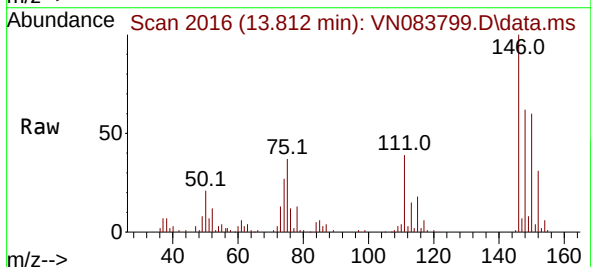
Tgt Ion:146 Resp: 66959

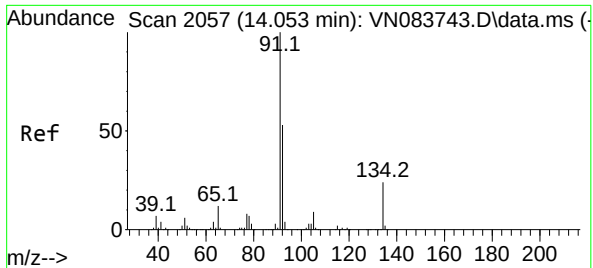
Ion Ratio Lower Upper

146 100

111 44.0 21.3 64.0

148 65.5 32.0 96.2





#89

n-Butylbenzene

Concen: 16.325 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

VN0911WBS01

Tgt Ion: 91 Resp: 103950

Ion Ratio Lower Upper

91 100

92 52.9 26.7 80.1

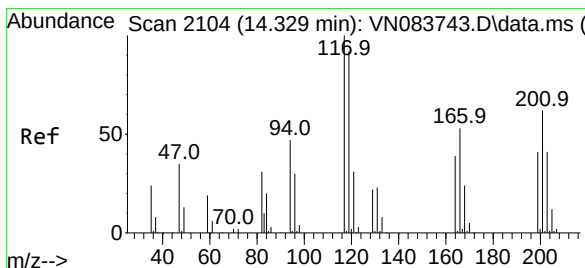
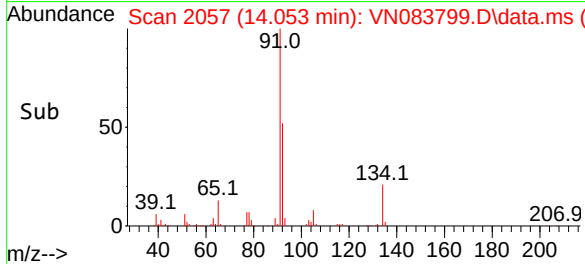
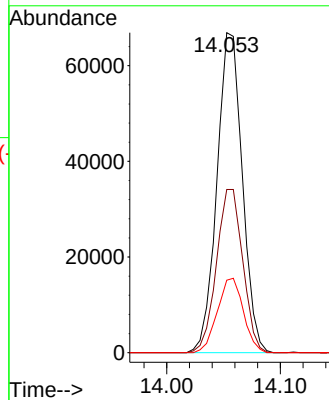
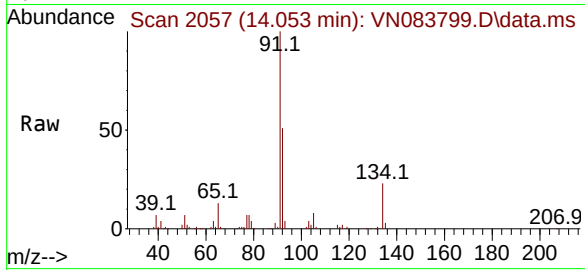
134 23.8 12.2 36.4

Manual Integrations

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Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#90

Hexachloroethane

Concen: 17.554 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. 0.006 min

Lab File: VN083799.D

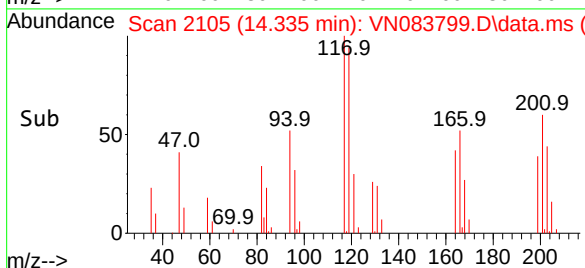
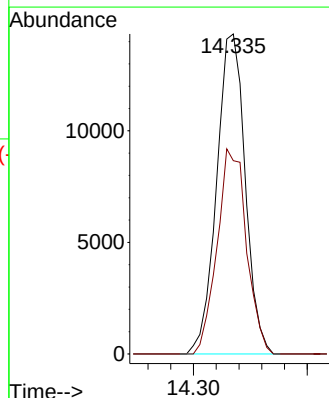
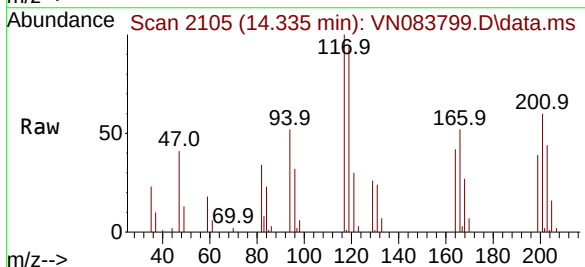
Acq: 11 Sep 2024 16:45

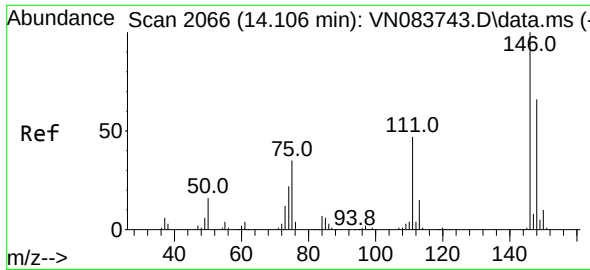
Tgt Ion:117 Resp: 25026

Ion Ratio Lower Upper

117 100

201 65.7 32.8 98.3





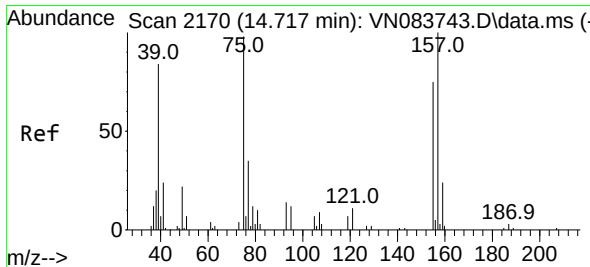
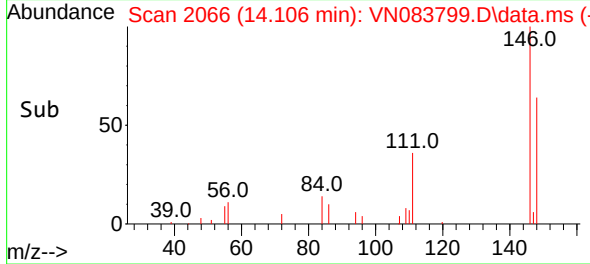
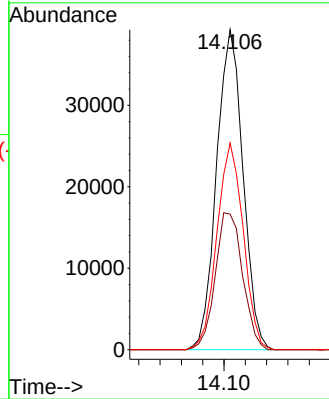
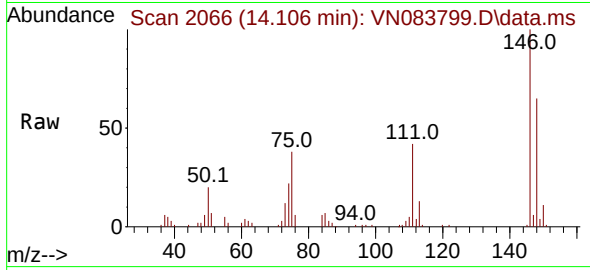
#91
1,2-Dichlorobenzene
Concen: 17.852 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Tgt Ion:146 Resp: 67694
Ion Ratio Lower Upper
146 100
111 44.2 22.8 68.3
148 64.2 32.1 96.5

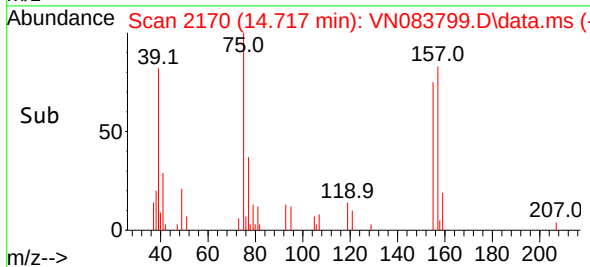
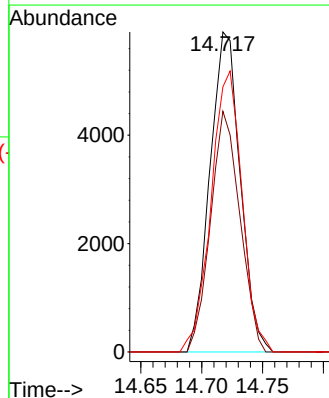
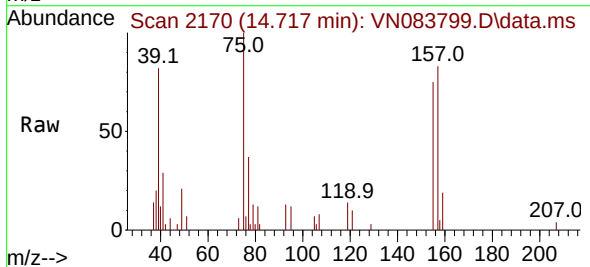
Manual Integrations
APPROVED

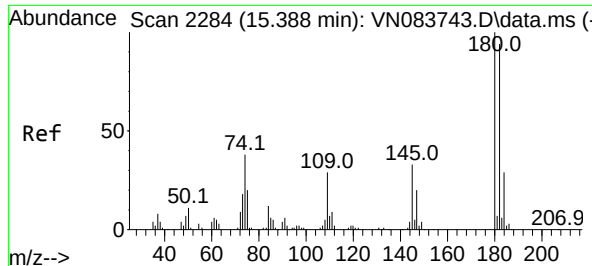
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.159 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 75 Resp: 10212
Ion Ratio Lower Upper
75 100
155 73.2 35.9 107.7
157 89.8 47.5 142.5





#93

1,2,4-Trichlorobenzene

Concen: 16.269 ug/l

RT: 15.394 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

VN0911WBS01

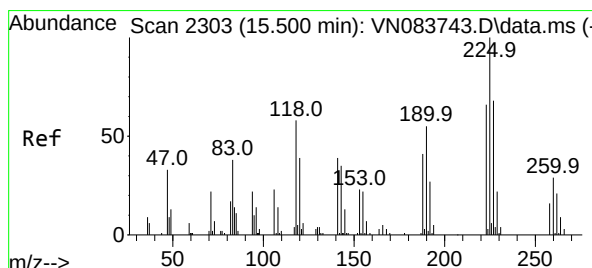
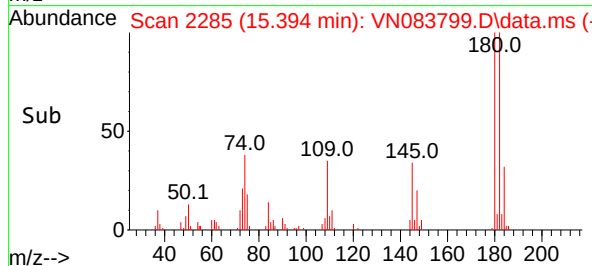
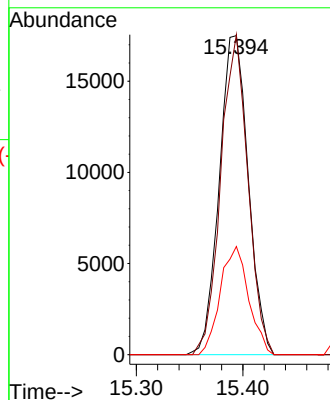
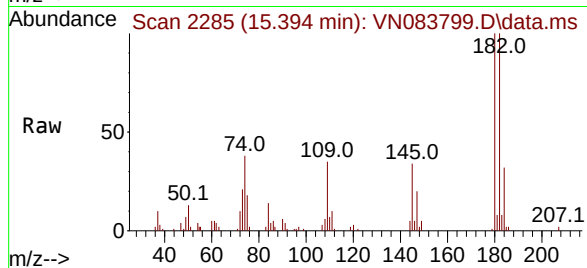
Tgt Ion:180	Resp:	33104
Ion Ratio	Lower	Upper
180	100	
182	93.6	48.1 144.3
145	33.2	16.9 50.7

Manual Integrations

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Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#94

Hexachlorobutadiene

Concen: 17.337 ug/l

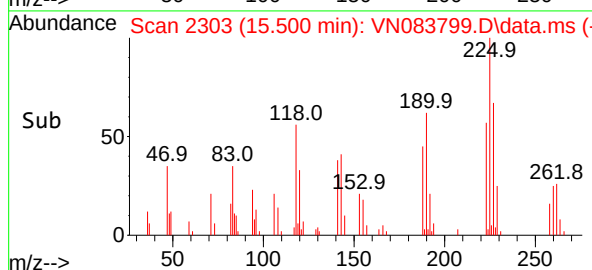
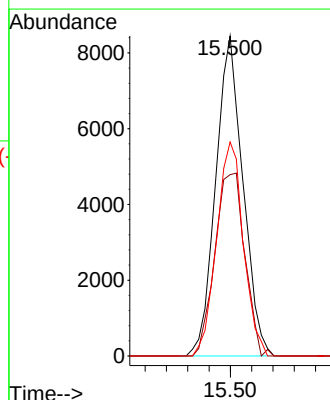
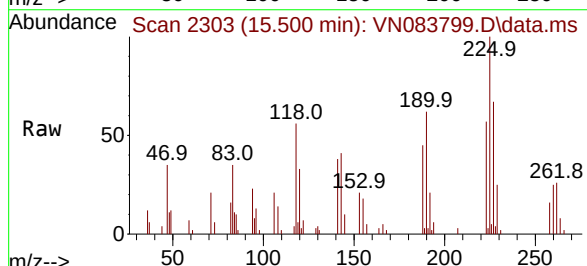
RT: 15.500 min Scan# 2303

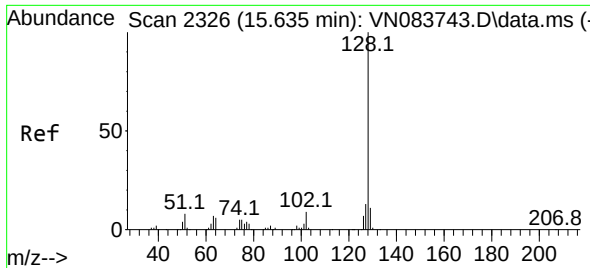
Delta R.T. -0.000 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Tgt Ion:225	Resp:	14982
Ion Ratio	Lower	Upper
225	100	
223	62.9	31.9 95.5
227	65.5	32.0 96.2





#95

Naphthalene

Concen: 17.476 ug/l

RT: 15.641 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

VN0911WBS01

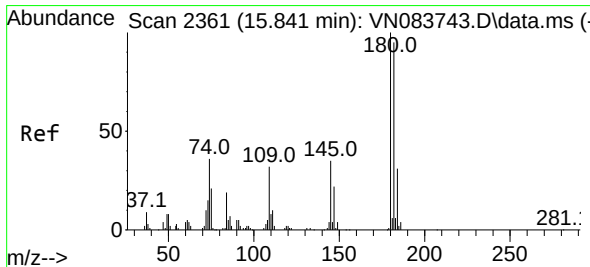
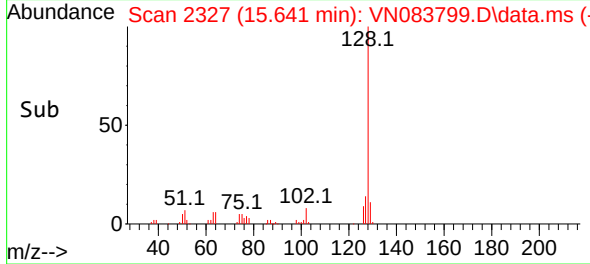
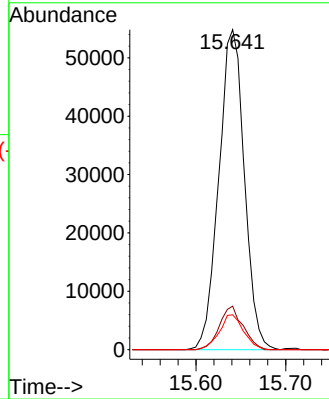
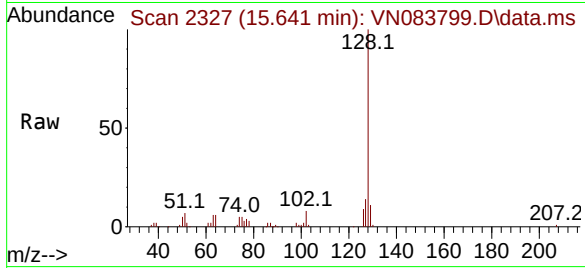
Tgt Ion:	128	Resp:	10818
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.2	15.2
129	10.4	8.7	13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#96

1,2,3-Trichlorobenzene

Concen: 16.080 ug/l

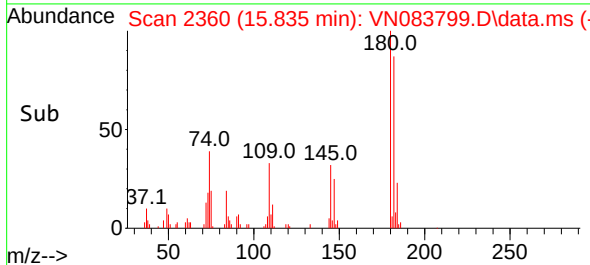
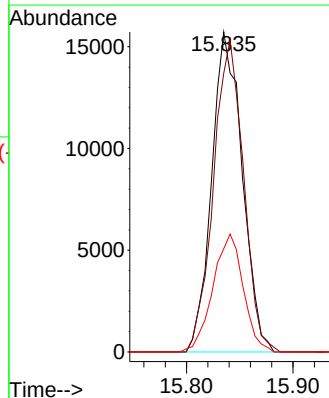
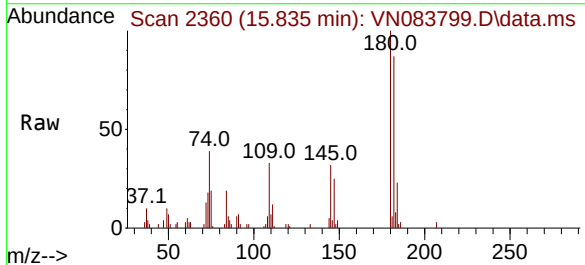
RT: 15.835 min Scan# 2360

Delta R.T. -0.006 min

Lab File: VN083799.D

Acq: 11 Sep 2024 16:45

Tgt Ion:	180	Resp:	31271
Ion Ratio	Lower	Upper	
180	100		
182	96.0	47.1	141.4
145	36.6	17.8	53.5



Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0910WBSD01	SDG No.:	P3845
Lab Sample ID:	VN0910WBSD01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083754.D	1		09/10/24 16:07	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.4		0.21	1.00	ug/L
74-87-3	Chloromethane	18.7		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.7		0.34	1.00	ug/L
141-78-6	Ethyl Acetate	20.6		0.38	1.00	ug/L
108-21-4	Isopropyl Acetate	19.4		0.29	1.00	ug/L
74-83-9	Bromomethane	19.1		1.40	5.00	ug/L
75-00-3	Chloroethane	18.4		0.56	1.00	ug/L
109-99-9	Tetrahydrofuran	100		1.20	5.00	ug/L
75-69-4	Trichlorofluoromethane	18.5		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.2		0.25	1.00	ug/L
75-65-0	Tert butyl alcohol	100		5.60	25.0	ug/L
60-29-7	Diethyl Ether	18.2		0.20	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.7		0.26	1.00	ug/L
107-02-8	Acrolein	100		6.70	25.0	ug/L
107-13-1	Acrylonitrile	97.4		0.90	5.00	ug/L
67-64-1	Acetone	96.1		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.8		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.9		0.16	1.00	ug/L
79-20-9	Methyl Acetate	21.0		0.60	1.00	ug/L
75-09-2	Methylene Chloride	19.0		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.1		0.25	1.00	ug/L
108-05-4	Vinyl Acetate	97.5		0.71	5.00	ug/L
75-34-3	1,1-Dichloroethane	18.5		0.23	1.00	ug/L
110-82-7	Cyclohexane	17.8		1.60	5.00	ug/L
78-93-3	2-Butanone	97.6		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.9		0.25	1.00	ug/L
594-20-7	2,2-Dichloropropane	18.5		0.31	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.5		0.25	1.00	ug/L
74-97-5	Bromochloromethane	20.0		0.18	1.00	ug/L
67-66-3	Chloroform	18.2		0.26	1.00	ug/L

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Waste Water PT		Date Received:	
Client Sample ID:	VN0910WBSD01		SDG No.:	P3845
Lab Sample ID:	VN0910WBSD01		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:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083754.D	1		09/10/24 16:07	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
71-55-6	1,1,1-Trichloroethane	18.3		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	18.7		0.19	1.00	ug/L
563-58-6	1,1-Dichloropropene	18.1		0.18	1.00	ug/L
71-43-2	Benzene	18.8		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.9		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.7		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.5		0.19	1.00	ug/L
74-95-3	Dibromomethane	19.4		0.23	1.00	ug/L
75-27-4	Bromodichloromethane	18.8		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.75	5.00	ug/L
108-88-3	Toluene	18.7		0.18	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.9		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.1		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.0		0.21	1.00	ug/L
142-28-9	1,3-Dichloropropane	19.4		0.17	1.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	95.2		1.80	5.00	ug/L
591-78-6	2-Hexanone	100		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	19.1		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.3		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	17.8		0.25	1.00	ug/L
108-90-7	Chlorobenzene	18.3		0.13	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	19.1		0.21	1.00	ug/L
100-41-4	Ethyl Benzene	18.8		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	37.0		0.31	2.00	ug/L
1330-20-7	Total Xylenes	56.0		0.45	3.00	ug/L
95-47-6	o-Xylene	19.0		0.14	1.00	ug/L
100-42-5	Styrene	19.0		0.16	1.00	ug/L
75-25-2	Bromoform	19.7		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	18.5		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.5		0.27	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	18.5		0.39	1.00	ug/L

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Waste Water PT		Date Received:	
Client Sample ID:	VN0910WBSD01		SDG No.:	P3845
Lab Sample ID:	VN0910WBSD01		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:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083754.D	1		09/10/24 16:07	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
108-86-1	Bromobenzene	17.8		0.26	1.00	ug/L
103-65-1	n-propylbenzene	18.4		0.14	1.00	ug/L
95-49-8	2-Chlorotoluene	18.8		0.16	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	18.2		0.18	1.00	ug/L
106-43-4	4-Chlorotoluene	18.6		0.18	1.00	ug/L
98-06-6	tert-Butylbenzene	18.7		0.17	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	18.8		0.18	1.00	ug/L
135-98-8	sec-Butylbenzene	18.6		0.17	1.00	ug/L
99-87-6	p-Isopropyltoluene	18.4		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.1		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	17.6		0.27	1.00	ug/L
104-51-8	n-Butylbenzene	18.0		0.22	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.5		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.0		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.4		0.42	1.00	ug/L
87-68-3	Hexachlorobutadiene	18.0		0.31	1.00	ug/L
91-20-3	Naphthalene	18.6		0.59	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.2		0.51	1.00	ug/L
628-63-7	N-amyl acetate	19.5		0.23	1.00	ug/L
74-88-4	Methyl Iodide	19.1		1.20	5.00	ug/L
107-05-1	Allyl chloride	18.9		0.24	1.00	ug/L
126-98-7	Methacrylonitrile	19.1		0.31	1.00	ug/L
97-63-2	Ethyl methacrylate	19.5		0.16	1.00	ug/L
108-20-3	Diisopropyl ether	18.7		0.16	1.00	ug/L
123-91-1	1,4-Dioxane	390		6.50	100	ug/L
80-62-6	Methyl methacrylate	19.2		0.32	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.9		74 - 125	94%	SPK: 50
1868-53-7	Dibromofluoromethane	45.8		75 - 124	92%	SPK: 50
2037-26-5	Toluene-d8	48.4		86 - 113	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.1		77 - 121	90%	SPK: 50

INTERNAL STANDARDS

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0910WBSD01	SDG No.:	P3845
Lab Sample ID:	VN0910WBSD01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083754.D	1		09/10/24 16:07	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	155000	8.224			
540-36-3	1,4-Difluorobenzene	268000	9.1			
3114-55-4	Chlorobenzene-d5	233000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	113000	13.794			
67-72-1	Hexachloroethane					

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_N\Data\VN091024\
 Data File : VN083754.D
 Acq On : 10 Sep 2024 16:07
 Operator : JC\MD
 Sample : VN0910WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0910WBSD01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/11/2024
 Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 03:14:46 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 02:47:22 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	155285	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	268277	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	233025	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	112657	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	109835	46.908	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.820%		
35) Dibromofluoromethane	8.165	113	78712	45.830	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.660%		
50) Toluene-d8	10.565	98	287623	48.443	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.880%		
62) 4-Bromofluorobenzene	12.847	95	110429	45.080	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	90.160%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	34938	19.373	ug/l	100
3) Chloromethane	2.359	50	36589	18.713	ug/l	98
4) Vinyl Chloride	2.512	62	37034	18.735	ug/l	98
5) Bromomethane	2.900	94	21715	19.133	ug/l	100
6) Chloroethane	3.071	64	25474	18.372	ug/l	94
7) Trichlorofluoromethane	3.465	101	62071	18.499	ug/l	93
8) Diethyl Ether	3.959	74	20417	18.153	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.347	101	34170	19.213	ug/l	98
10) Methyl Iodide	4.577	142	43140	19.073	ug/l	99
11) Tert butyl alcohol	5.536	59	32477	103.580	ug/l #	83
12) 1,1-Dichloroethene	4.330	96	31428	18.712	ug/l	86
13) Acrolein	4.177	56	32462	104.931	ug/l	96
14) Allyl chloride	5.006	41	56591	18.909	ug/l	97
15) Acrylonitrile	5.718	53	83057	97.406	ug/l	99
16) Acetone	4.430	43	90182	96.077	ug/l	96
17) Carbon Disulfide	4.700	76	83426	17.757	ug/l	99
18) Methyl Acetate	5.024	43	43151	20.987	ug/l	96
19) Methyl tert-butyl Ether	5.794	73	115146	18.945	ug/l	94
20) Methylene Chloride	5.271	84	36477	18.990	ug/l	92
21) trans-1,2-Dichloroethene	5.771	96	32664	18.147	ug/l	96
22) Diisopropyl ether	6.671	45	115246	18.707	ug/l	97
23) Vinyl Acetate	6.600	43	439901	97.505	ug/l	99
24) 1,1-Dichloroethane	6.559	63	65642	18.494	ug/l	99
25) 2-Butanone	7.482	43	120379	97.576	ug/l	98
26) 2,2-Dichloropropane	7.488	77	60404	18.480	ug/l	100
27) cis-1,2-Dichloroethene	7.488	96	39615	18.540	ug/l	97
28) Bromochloromethane	7.812	49	29949	20.037	ug/l	98
29) Tetrahydrofuran	7.841	42	74078	101.550	ug/l	97
30) Chloroform	7.965	83	68713	18.235	ug/l	99
31) Cyclohexane	8.253	56	60268	17.809	ug/l	95
32) 1,1,1-Trichloroethane	8.165	97	63454	18.314	ug/l	99
36) 1,1-Dichloropropene	8.371	75	46881	18.135	ug/l	97
37) Ethyl Acetate	7.565	43	48268	20.571	ug/l	99
38) Carbon Tetrachloride	8.359	117	55419	18.897	ug/l	99
39) Methylcyclohexane	9.600	83	54969	18.682	ug/l	98
40) Benzene	8.606	78	146220	18.793	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
 Data File : VN083754.D
 Acq On : 10 Sep 2024 16:07
 Operator : JC\MD
 Sample : VN0910WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0910WBSD01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/11/2024
 Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 03:14:46 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 02:47:22 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	26555	19.134	ug/l	96
42) 1,2-Dichloroethane	8.671	62	54955	18.902	ug/l	100
43) Isopropyl Acetate	8.688	43	82497	19.401	ug/l	97
44) Trichloroethene	9.353	130	33656	18.679	ug/l	99
45) 1,2-Dichloropropane	9.618	63	34803	18.507	ug/l	96
46) Dibromomethane	9.706	93	25572	19.414	ug/l	98
47) Bromodichloromethane	9.888	83	53470	18.757	ug/l	99
48) Methyl methacrylate	9.682	41	38684	19.176	ug/l	97
49) 1,4-Dioxane	9.694	88	12964	390.637	ug/l #	94
51) 4-Methyl-2-Pentanone	10.447	43	235084	101.564	ug/l	98
52) Toluene	10.629	92	89075	18.716	ug/l	97
53) t-1,3-Dichloropropene	10.835	75	54667	18.919	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	57857	19.062	ug/l	99
55) 1,1,2-Trichloroethane	11.018	97	33691	18.962	ug/l	95
56) Ethyl methacrylate	10.876	69	53210	19.465	ug/l	93
57) 1,3-Dichloropropane	11.159	76	59317	19.425	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	93773	95.203	ug/l	95
59) 2-Hexanone	11.194	43	177106	103.438	ug/l	96
60) Dibromochloromethane	11.359	129	37963	19.092	ug/l	100
61) 1,2-Dibromoethane	11.470	107	34141	19.267	ug/l	97
64) Tetrachloroethene	11.100	164	27563	17.786	ug/l	96
65) Chlorobenzene	11.894	112	95019	18.347	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	34311	19.110	ug/l	98
67) Ethyl Benzene	11.965	91	172772	18.779	ug/l	95
68) m/p-Xylenes	12.070	106	126301	36.976	ug/l	98
69) o-Xylene	12.400	106	62752	18.977	ug/l	98
70) Styrene	12.412	104	103357	19.046	ug/l	99
71) Bromoform	12.576	173	23863	19.723	ug/l #	98
73) Isopropylbenzene	12.694	105	160940	18.465	ug/l	100
74) N-amyl acetate	12.494	43	72476	19.490	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.941	83	49910	19.489	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	41121m	18.547	ug/l	
77) Bromobenzene	12.982	156	37360	17.807	ug/l	99
78) n-propylbenzene	13.035	91	186432	18.384	ug/l	98
79) 2-Chlorotoluene	13.123	91	121802	18.833	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	133892	18.221	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	17296	19.928	ug/l	97
82) 4-Chlorotoluene	13.223	91	120449	18.559	ug/l	98
83) tert-Butylbenzene	13.435	119	120350	18.720	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	138521	18.766	ug/l	99
85) sec-Butylbenzene	13.617	105	158826	18.628	ug/l	99
86) p-Isopropyltoluene	13.729	119	131843	18.447	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	71656	18.097	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	70441	17.570	ug/l	98
89) n-Butylbenzene	14.053	91	115369	17.978	ug/l	99
90) Hexachloroethane	14.329	117	26057	18.136	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	70785	18.524	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10229	20.037	ug/l	97
93) 1,2,4-Trichlorobenzene	15.394	180	35681	17.401	ug/l	99
94) Hexachlorobutadiene	15.500	225	15646	17.967	ug/l	97
95) Naphthalene	15.641	128	115828	18.566	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	33713	17.203	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083754.D
Acq On : 10 Sep 2024 16:07
Operator : JC\MD
Sample : VN0910WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 03:14:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration

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

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

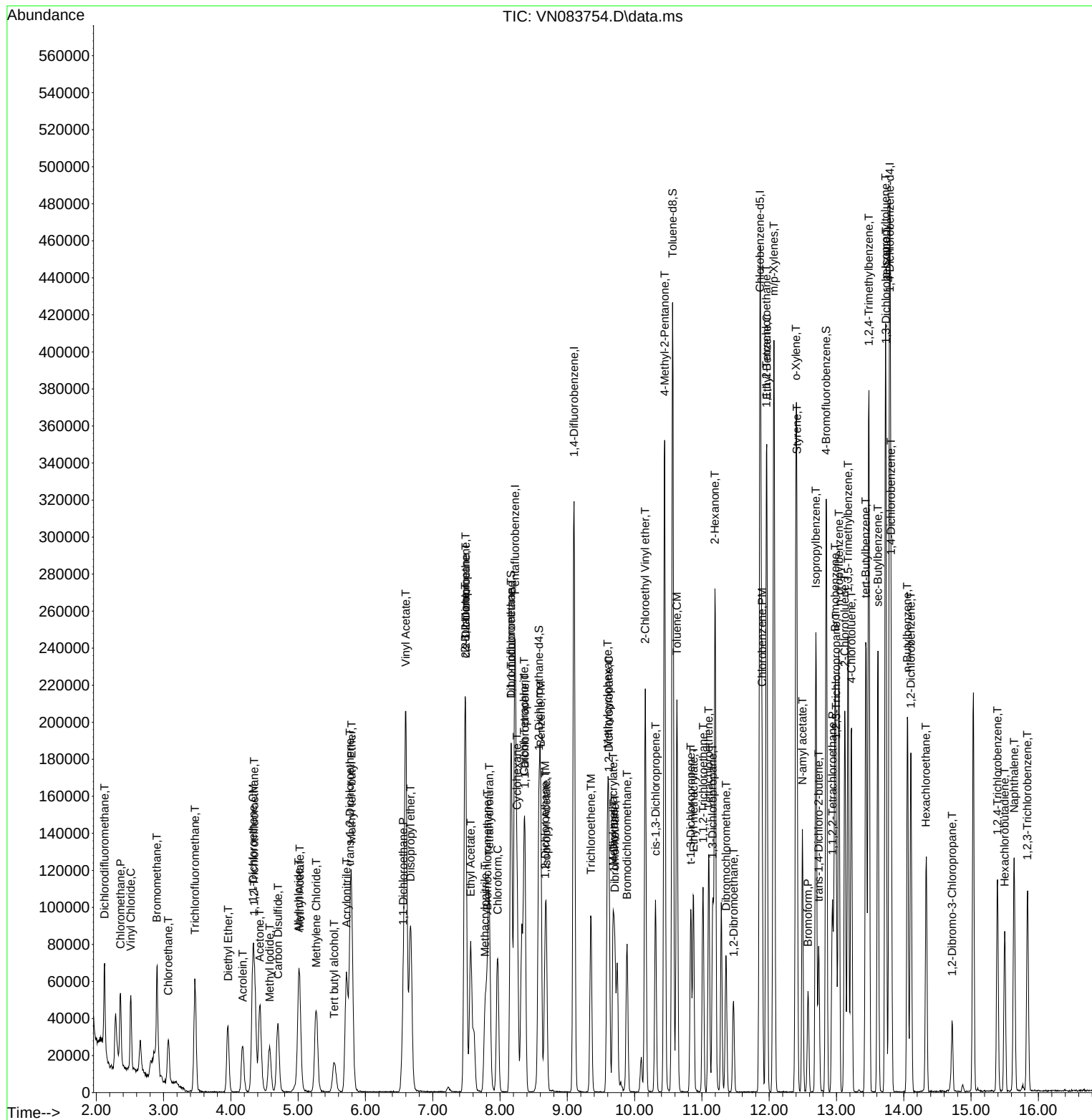

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Data File : VN083754.D  
Acq On    : 10 Sep 2024 16:07  
Operator  : JC\MD  
Sample    : VN0910WBSD01  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 15 Sample Multiplier: 1
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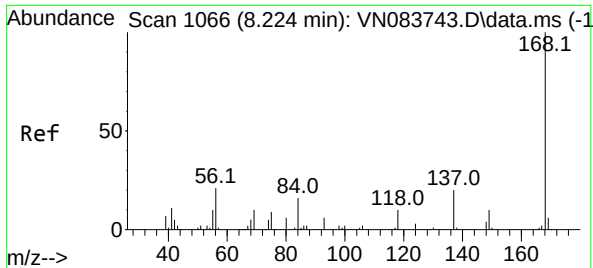
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

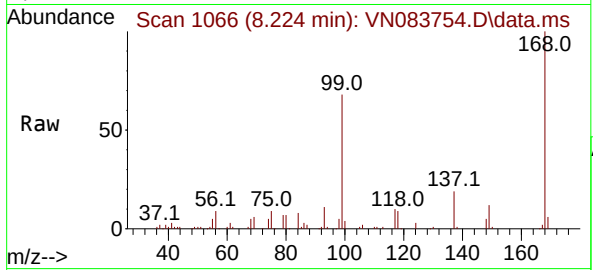
Quant Time: Sep 11 03:14:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

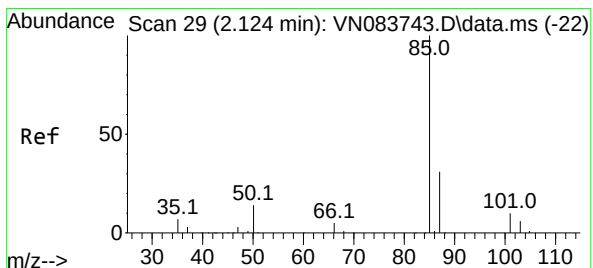
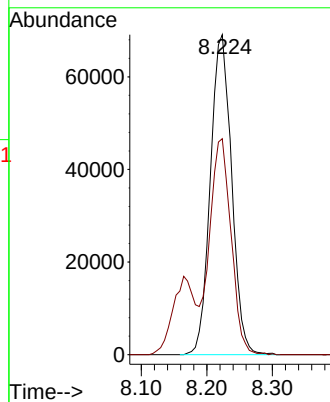
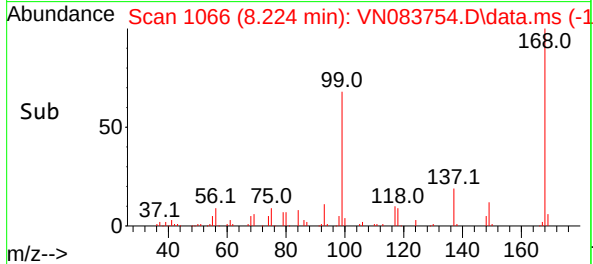
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



Tgt Ion:168 Resp: 15528
Ion Ratio Lower Upper
168 100
99 67.5 54.2 81.2

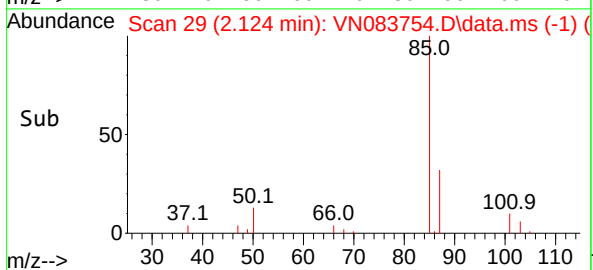
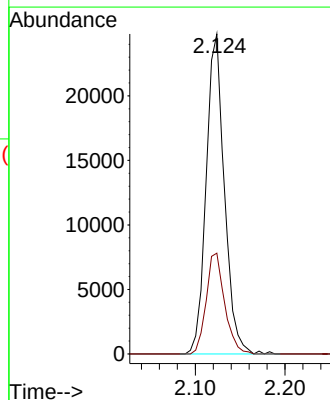
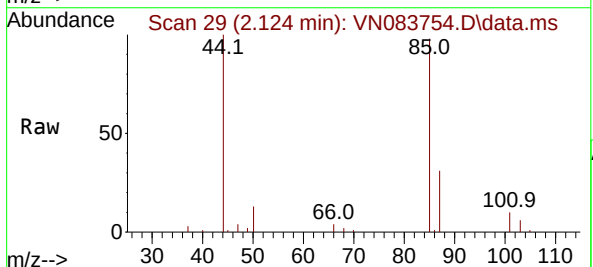
Manual Integrations
APPROVED

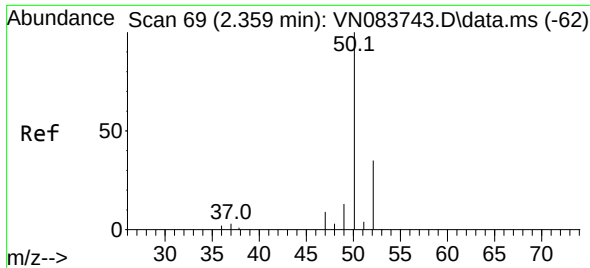
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#2
Dichlorodifluoromethane
Concen: 19.373 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 85 Resp: 34938
Ion Ratio Lower Upper
85 100
87 31.5 15.7 47.0





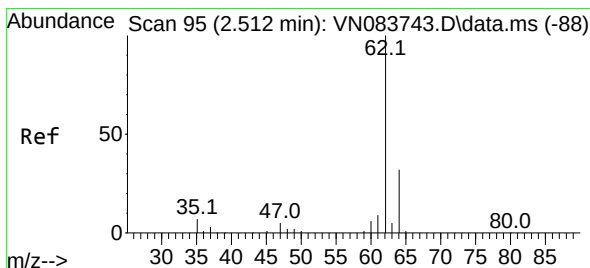
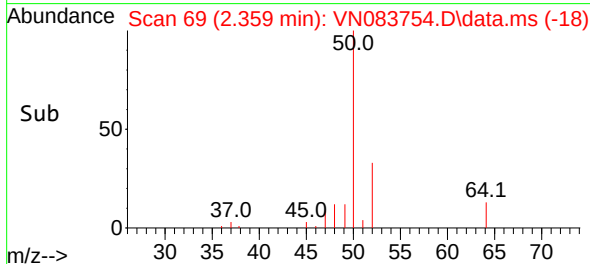
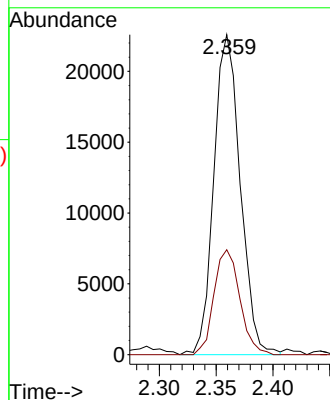
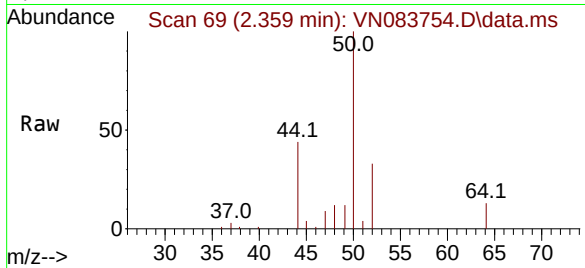
#3
Chloromethane
Concen: 18.713 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Tgt Ion: 50 Resp: 36589
Ion Ratio Lower Upper
50 100
52 32.8 27.2 40.8

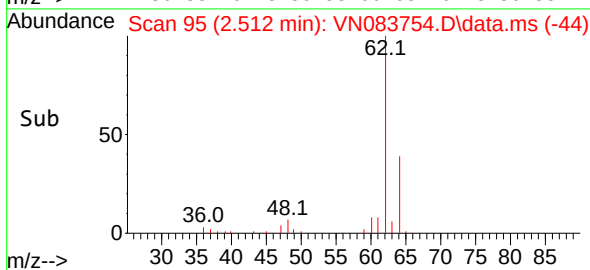
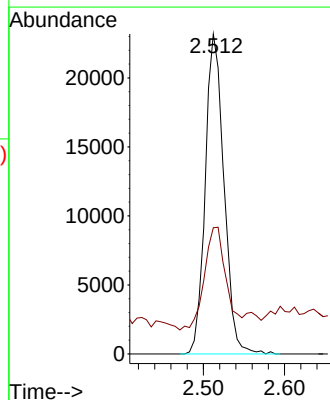
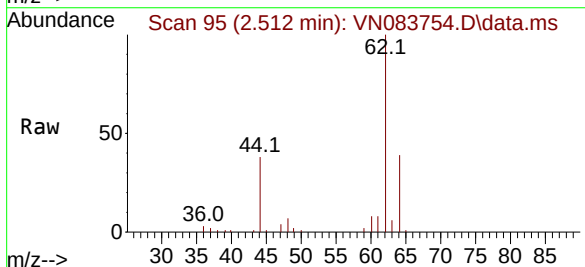
Manual Integrations
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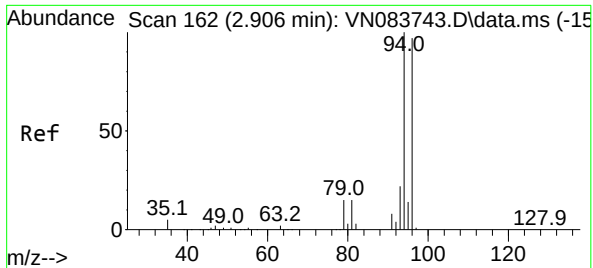
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#4
Vinyl Chloride
Concen: 18.735 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 62 Resp: 37034
Ion Ratio Lower Upper
62 100
64 31.9 24.7 37.1





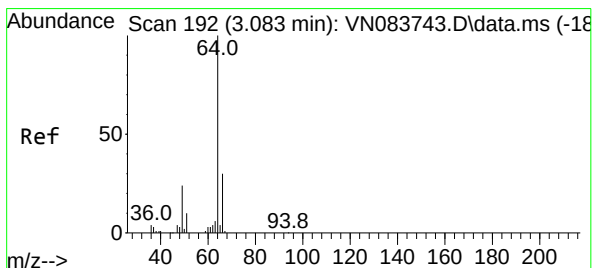
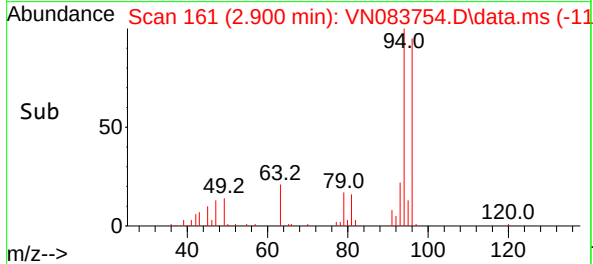
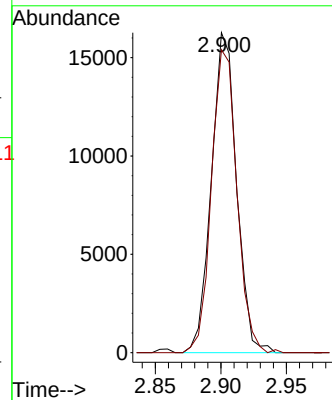
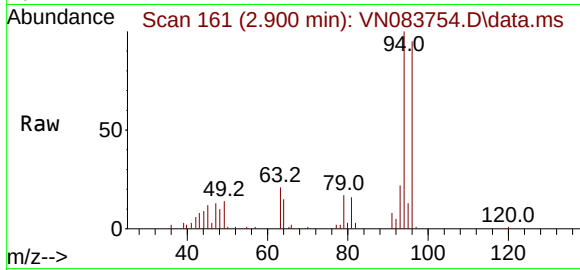
#5
Bromomethane
Concen: 19.133 ug/l
RT: 2.900 min Scan# 110
Delta R.T. -0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Tgt Ion: 94 Resp: 21715
Ion Ratio Lower Upper
94 100
96 94.7 76.0 114.0

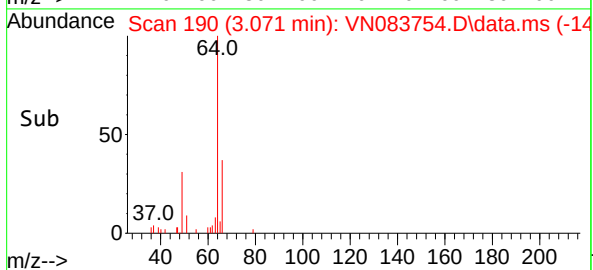
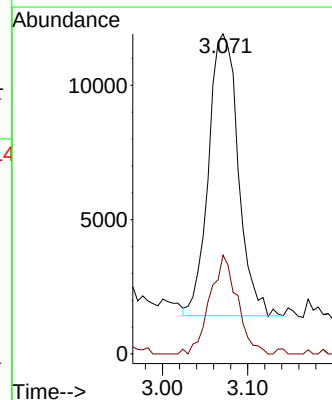
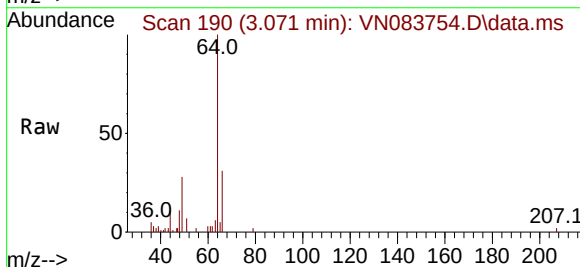
Manual Integrations
APPROVED

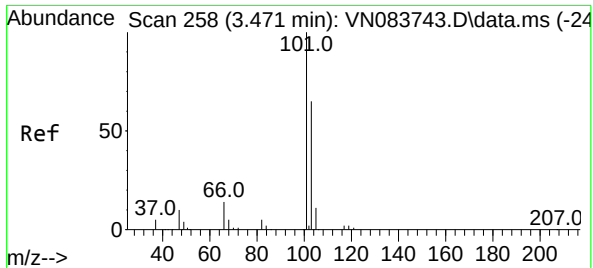
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#6
Chloroethane
Concen: 18.372 ug/l
RT: 3.071 min Scan# 190
Delta R.T. -0.012 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

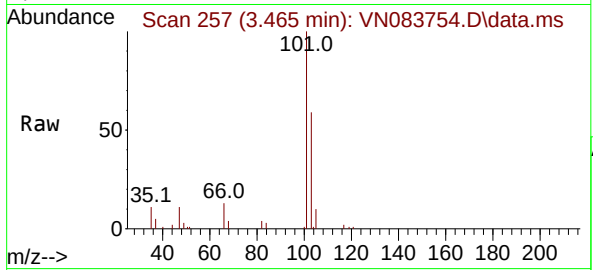
Tgt Ion: 64 Resp: 25474
Ion Ratio Lower Upper
64 100
66 33.4 23.9 35.9





#7
Trichlorofluoromethane
Concen: 18.499 ug/l
RT: 3.465 min Scan# 210
Delta R.T. -0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

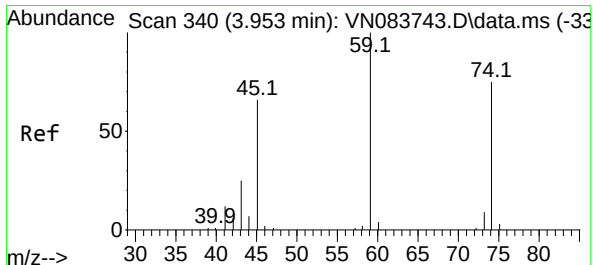
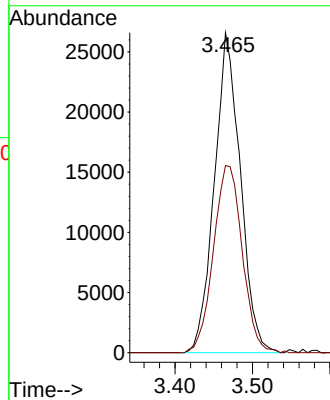
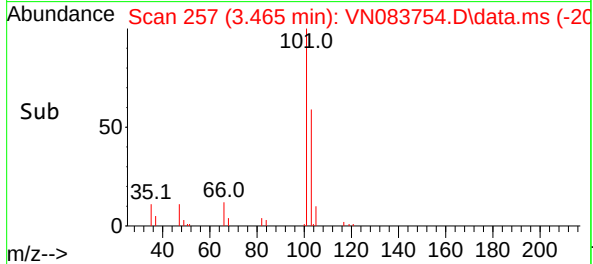
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



Tgt Ion:101 Resp: 6207
Ion Ratio Lower Upper
101 100
103 58.5 51.4 77.0

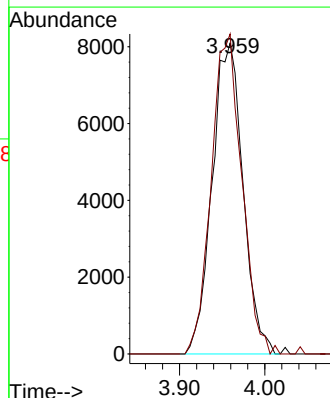
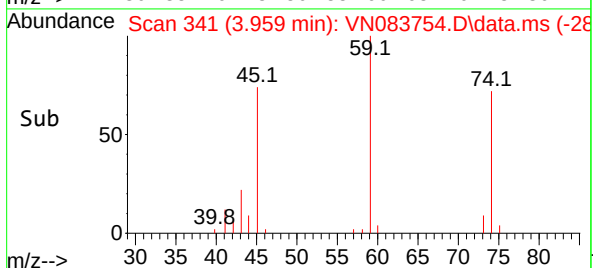
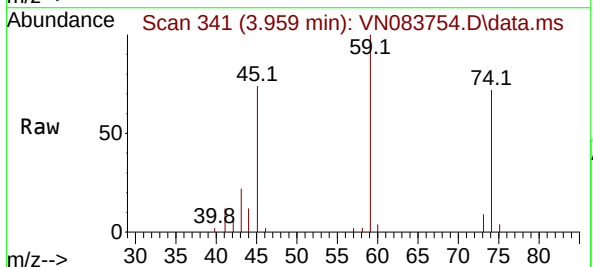
Manual Integrations
APPROVED

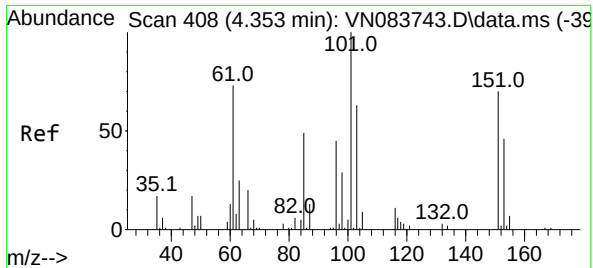
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#8
Diethyl Ether
Concen: 18.153 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 74 Resp: 20417
Ion Ratio Lower Upper
74 100
45 101.3 46.7 140.1





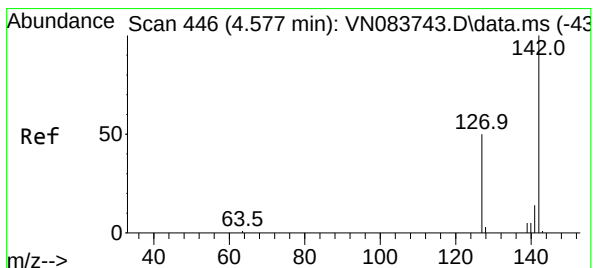
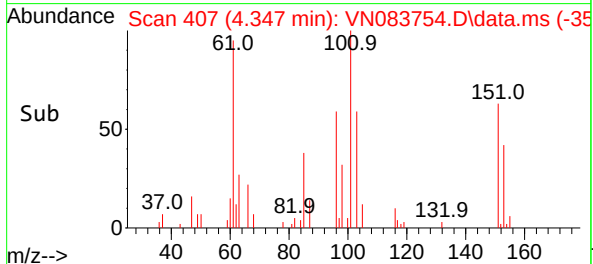
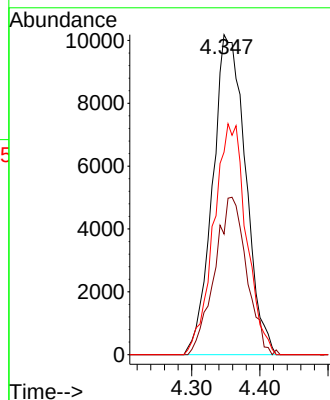
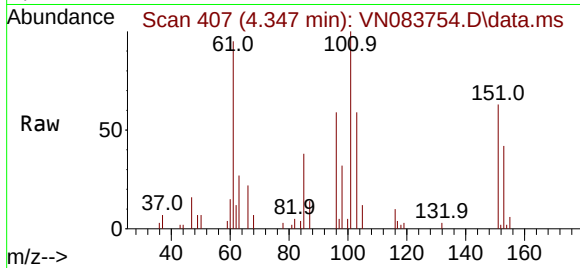
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.213 ug/l
RT: 4.347 min Scan# 408
Delta R.T. -0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Tgt Ion:101 Resp: 34170
Ion Ratio Lower Upper
101 100
85 47.8 36.2 54.4
151 71.8 57.7 86.5

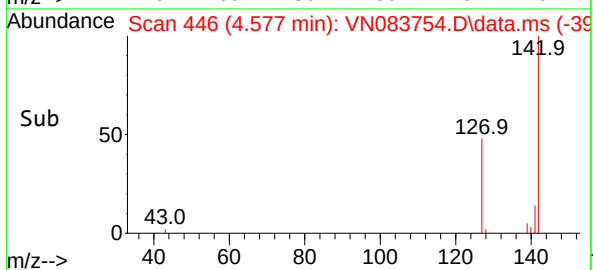
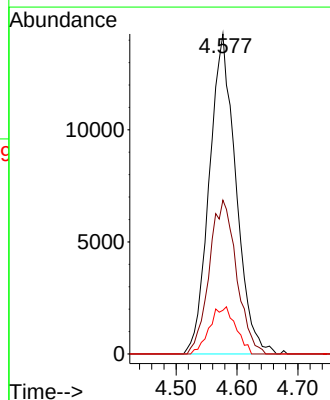
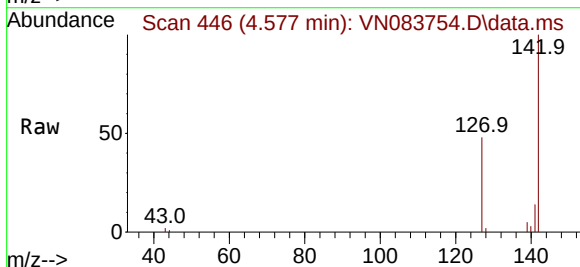
Manual Integrations
APPROVED

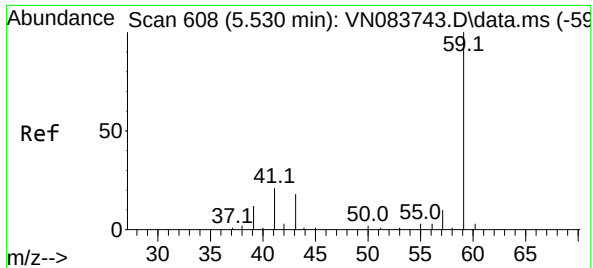
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#10
Methyl Iodide
Concen: 19.073 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:142 Resp: 43140
Ion Ratio Lower Upper
142 100
127 48.1 37.5 56.3
141 13.7 11.0 16.4





#11

Tert butyl alcohol

Concen: 103.580 ug/l

RT: 5.536 min Scan# 608

Delta R.T. 0.006 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBSD01

Tgt Ion: 59 Resp: 3247

Ion Ratio Lower Upper

59 100

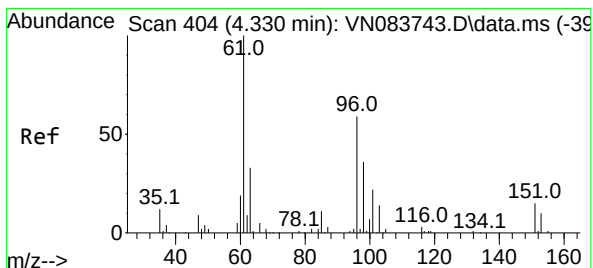
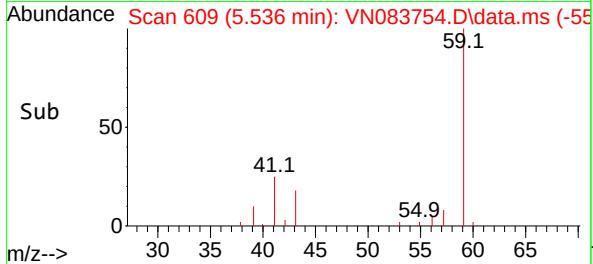
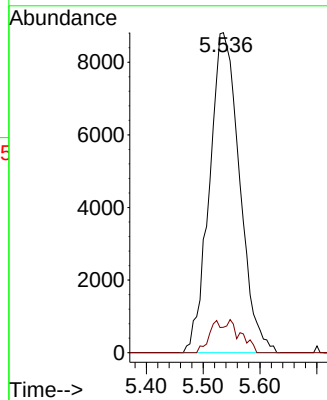
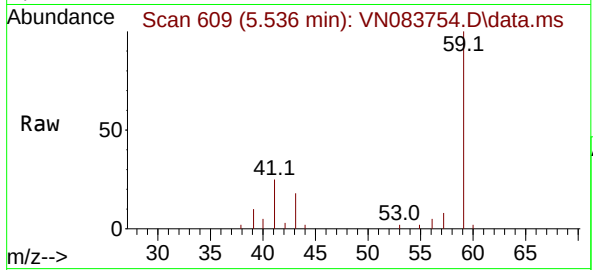
57 4.6 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#12

1,1-Dichloroethene

Concen: 18.712 ug/l

RT: 4.330 min Scan# 404

Delta R.T. -0.000 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

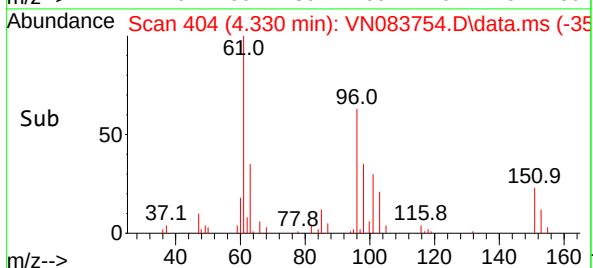
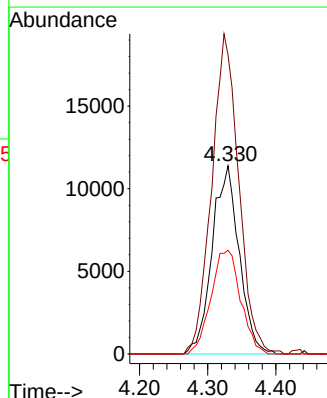
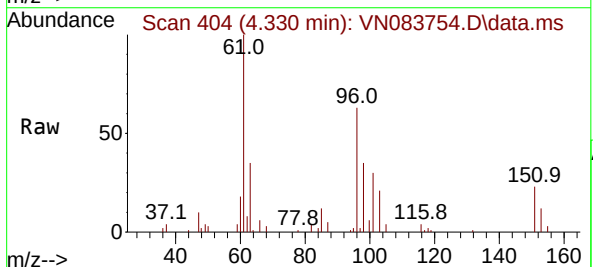
Tgt Ion: 96 Resp: 31428

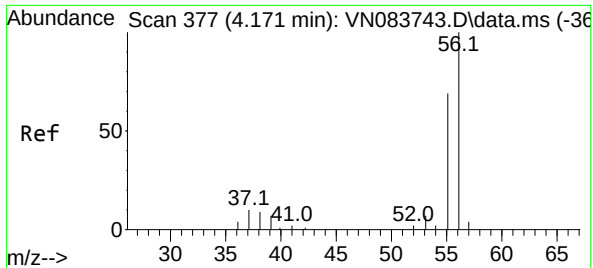
Ion Ratio Lower Upper

96 100

61 158.8 143.4 215.0

98 55.1 52.7 79.1





#13

Acrolein

Concen: 104.931 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBSD01

Tgt Ion: 56 Resp: 3246

Ion Ratio Lower Upper

56 100

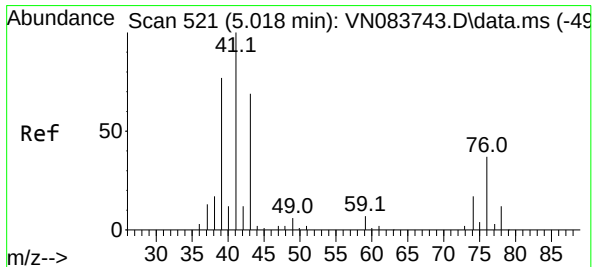
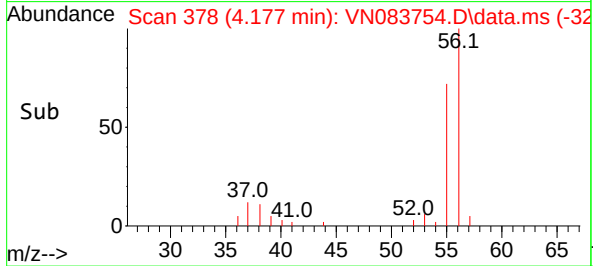
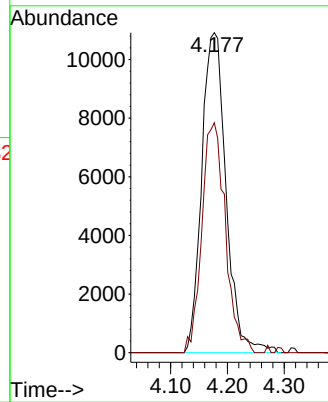
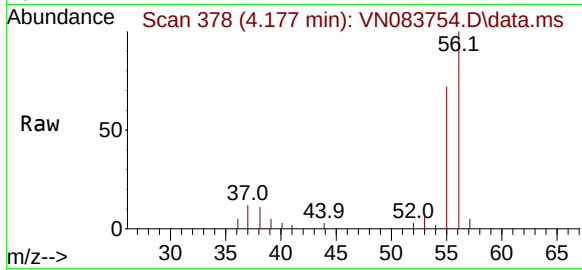
55 69.2 58.2 87.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#14

Allyl chloride

Concen: 18.909 ug/l

RT: 5.006 min Scan# 519

Delta R.T. -0.012 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

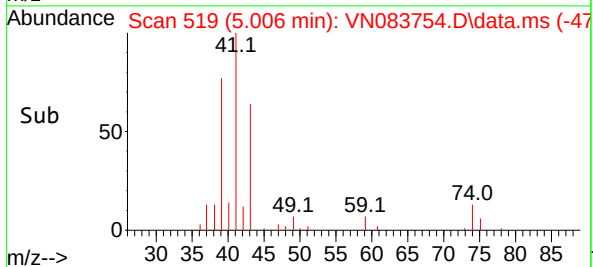
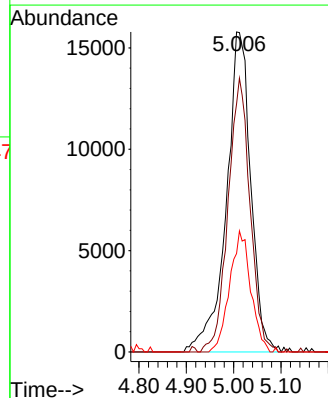
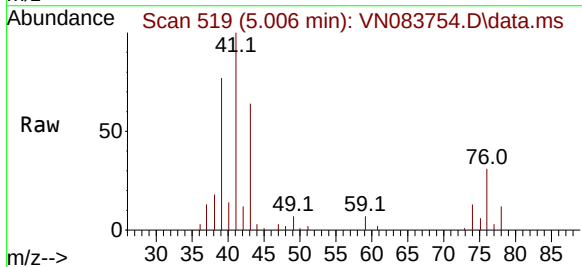
Tgt Ion: 41 Resp: 56591

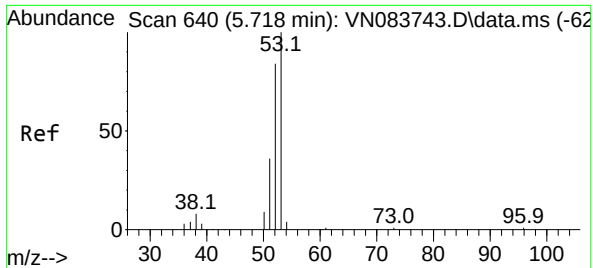
Ion Ratio Lower Upper

41 100

39 76.8 59.3 88.9

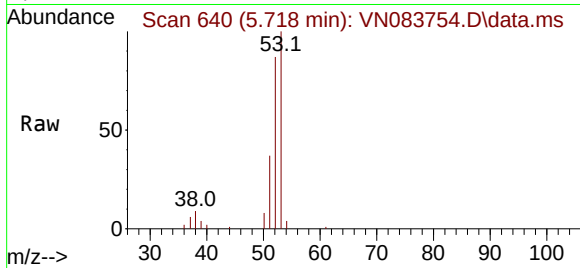
76 32.6 27.7 41.5





#15
Acrylonitrile
Concen: 97.406 ug/l
RT: 5.718 min Scan# 640
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

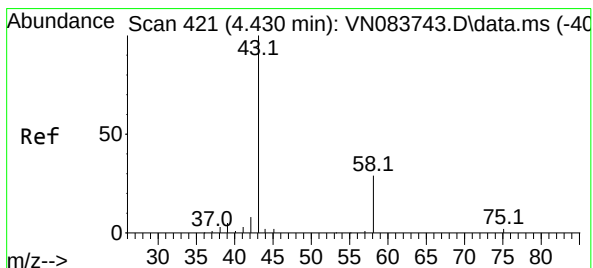
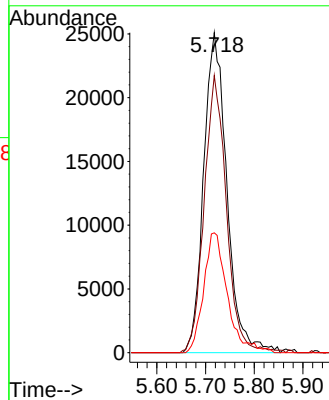
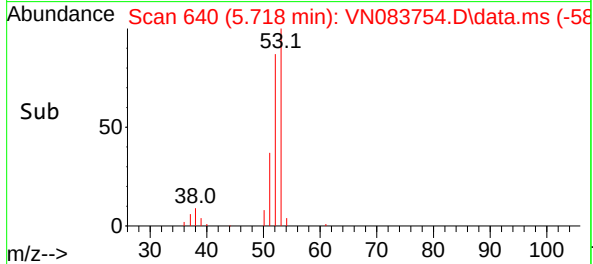
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



Tgt Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.1	99.1
51	38.2	29.6	44.4

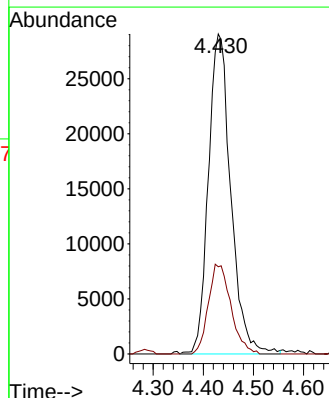
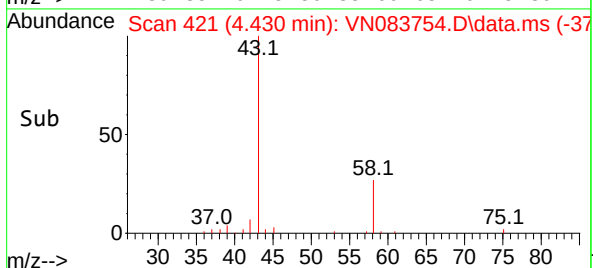
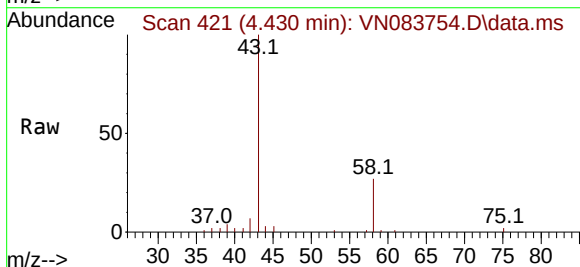
Manual Integrations
APPROVED

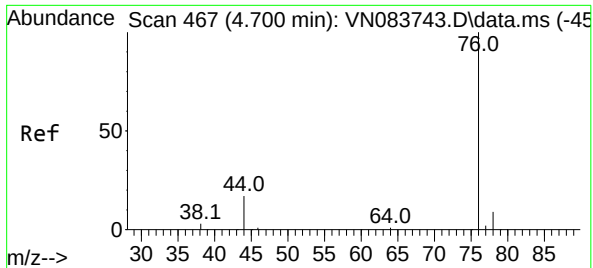
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#16
Acetone
Concen: 96.077 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

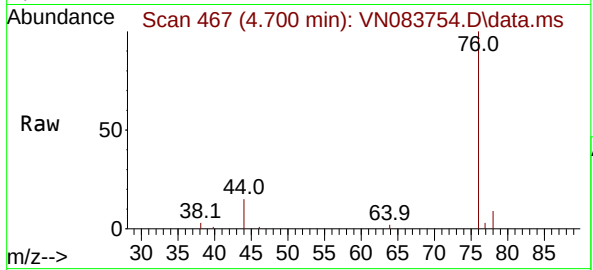
Tgt Ion	Ratio	Lower	Upper
43	100		
58	27.2	23.7	35.5





#17
Carbon Disulfide
Concen: 17.757 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

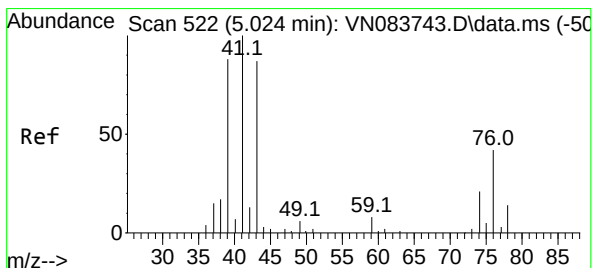
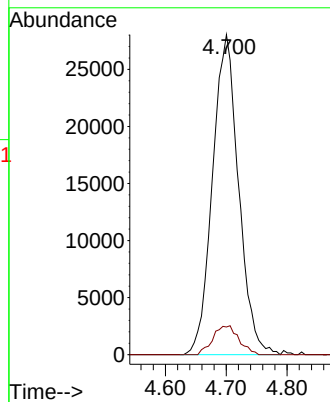
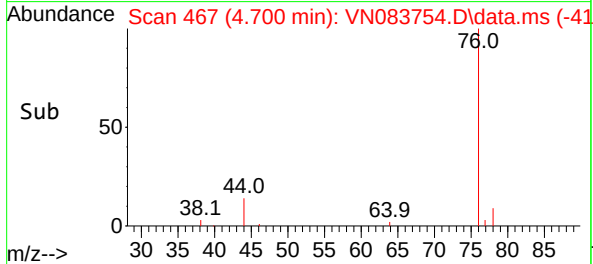
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



Tgt Ion: 76 Resp: 83420
Ion Ratio Lower Upper
76 100
78 8.7 7.1 10.7

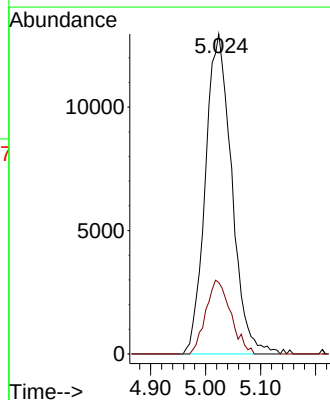
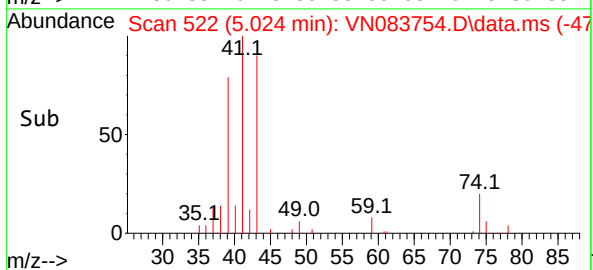
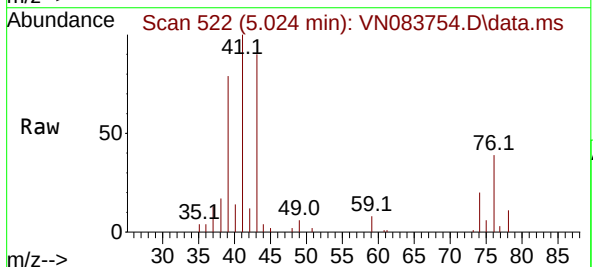
Manual Integrations
APPROVED

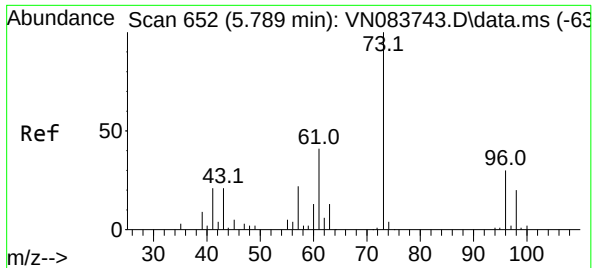
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#18
Methyl Acetate
Concen: 20.987 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 43 Resp: 43151
Ion Ratio Lower Upper
43 100
74 21.7 19.0 28.4





#19

Methyl tert-butyl Ether

Concen: 18.945 ug/l

RT: 5.794 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBSD01

Tgt Ion: 73 Resp: 115140

Ion Ratio Lower Upper

73 100

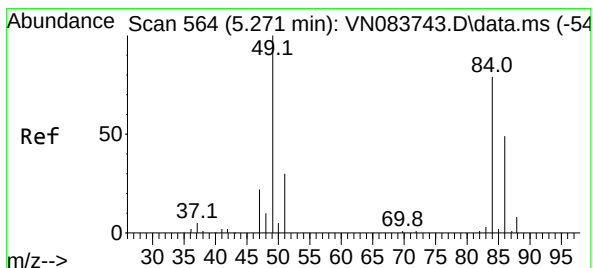
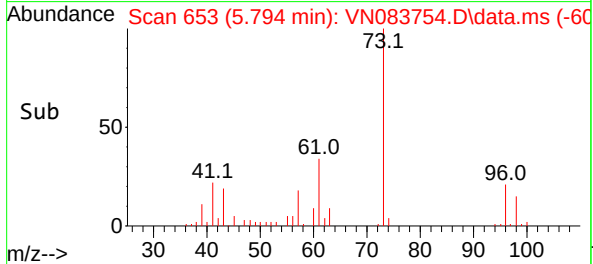
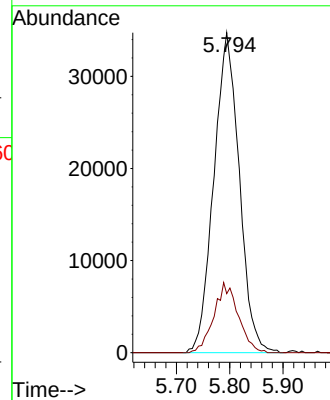
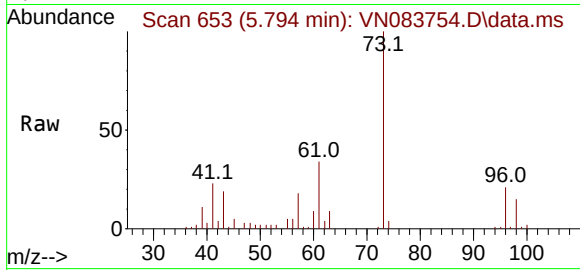
57 18.5 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#20

Methylene Chloride

Concen: 18.990 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.000 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Tgt Ion: 84 Resp: 36477

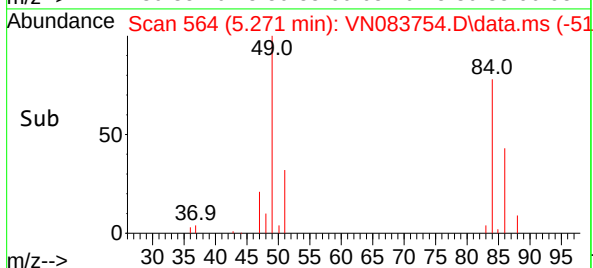
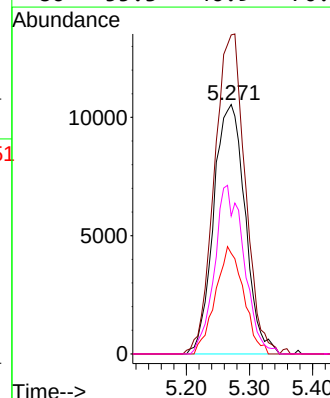
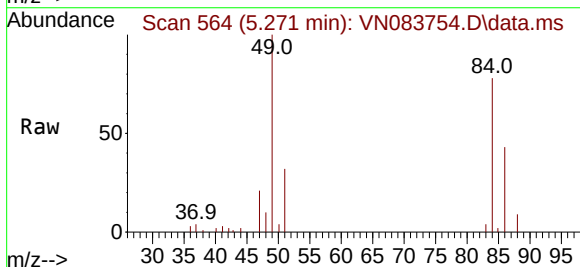
Ion Ratio Lower Upper

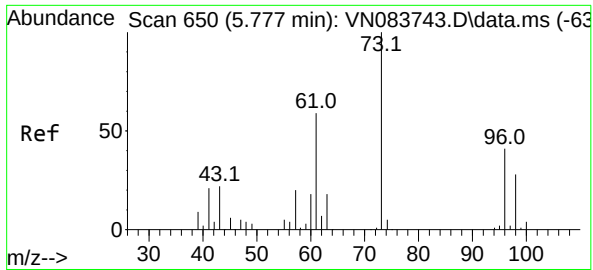
84 100

49 127.9 93.4 140.0

51 40.3 29.2 43.8

86 55.3 46.9 70.3





#21

trans-1,2-Dichloroethene

Concen: 18.147 ug/l

RT: 5.771 min Scan# 649

Delta R.T. -0.006 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBSD01

Tgt Ion: 96 Resp: 3266

Ion Ratio Lower Upper

96 100

61 139.7 106.0 159.0

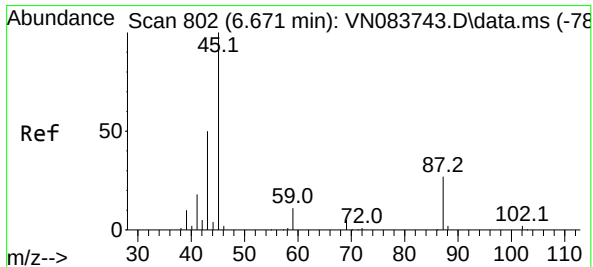
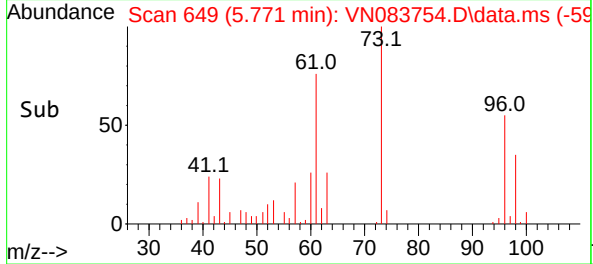
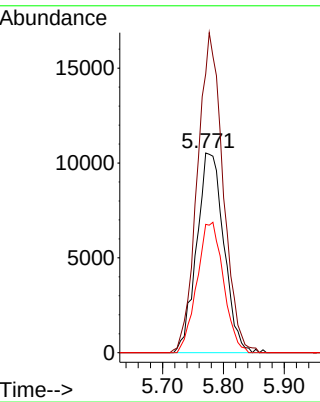
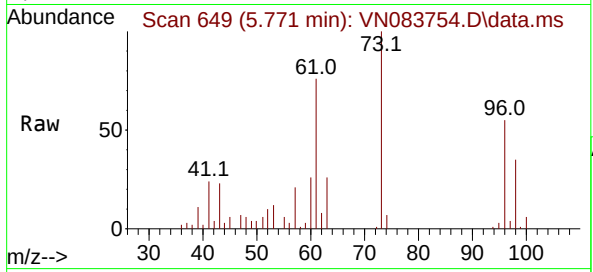
98 64.3 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#22

Diisopropyl ether

Concen: 18.707 ug/l

RT: 6.671 min Scan# 802

Delta R.T. -0.000 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Tgt Ion: 45 Resp: 115246

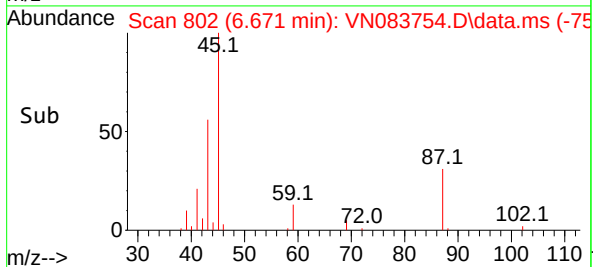
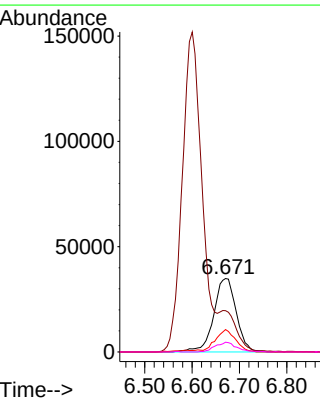
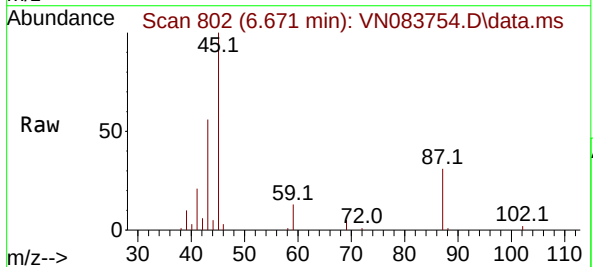
Ion Ratio Lower Upper

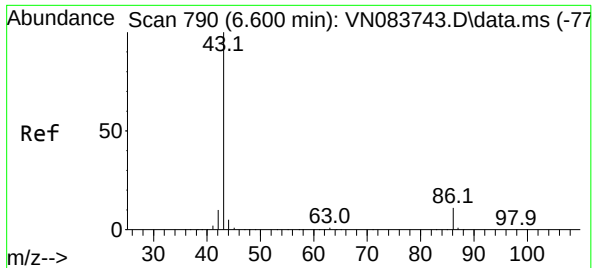
45 100

43 55.0 43.4 65.0

87 30.5 22.6 33.8

59 13.3 9.1 13.7





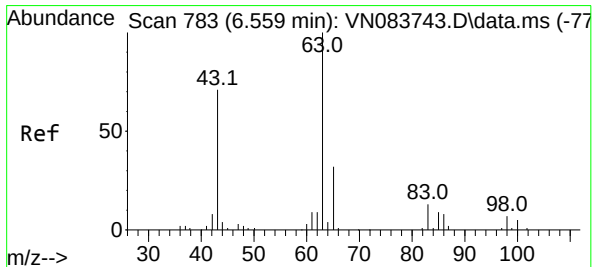
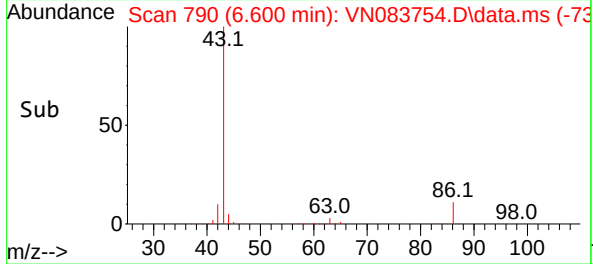
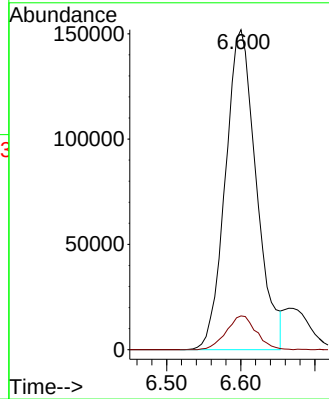
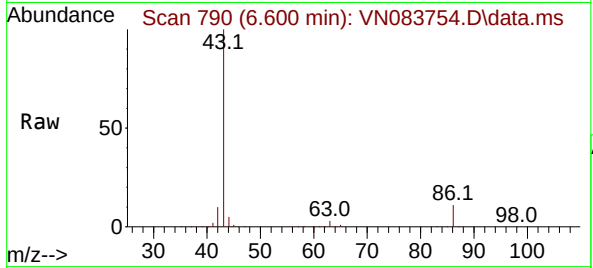
#23
Vinyl Acetate
Concen: 97.505 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Tgt Ion: 43 Resp: 43990
Ion Ratio Lower Upper
43 100
86 10.5 8.7 13.1

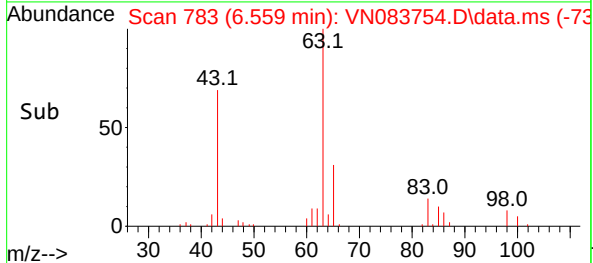
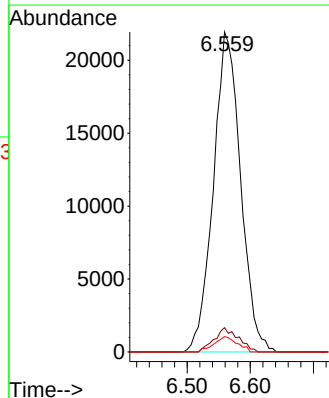
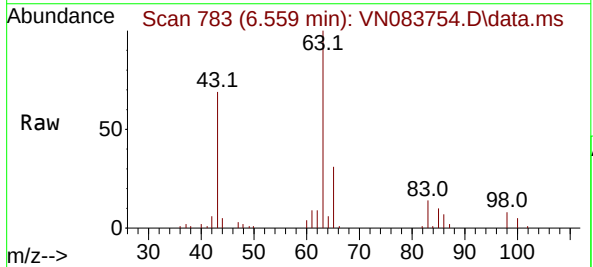
Manual Integrations
APPROVED

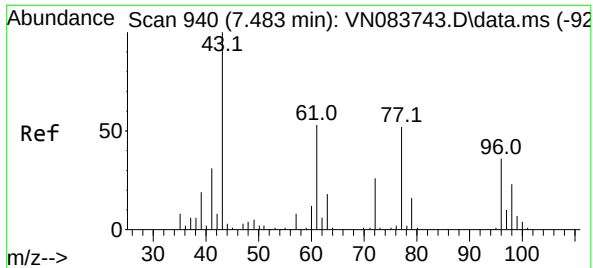
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#24
1,1-Dichloroethane
Concen: 18.494 ug/l
RT: 6.559 min Scan# 783
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

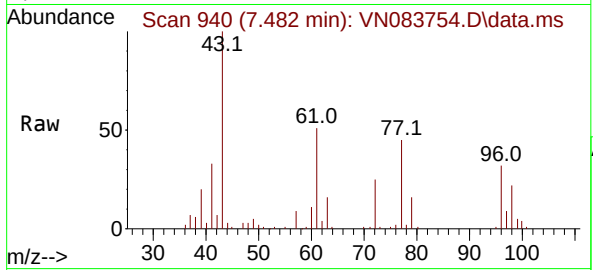
Tgt Ion: 63 Resp: 65642
Ion Ratio Lower Upper
63 100
98 7.6 3.5 10.4
100 4.8 2.5 7.5





#25
2-Butanone
Concen: 97.576 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

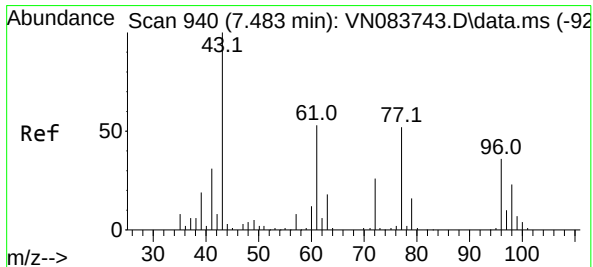
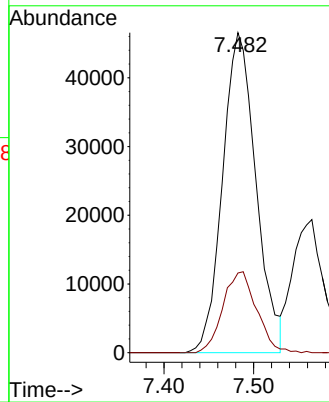
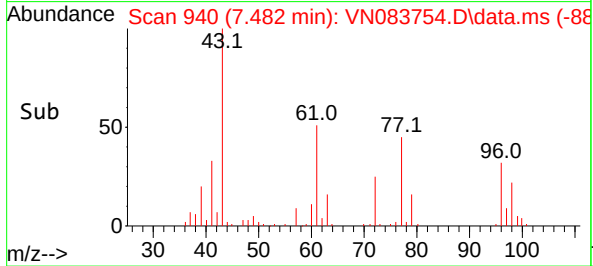
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



Tgt Ion: 43 Resp: 120379
Ion Ratio Lower Upper
43 100
72 24.9 20.8 31.2

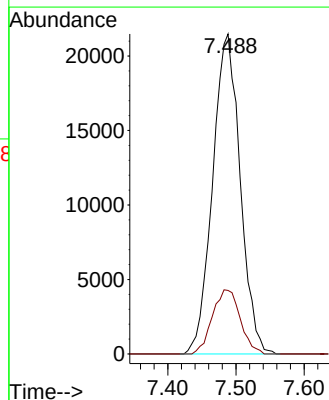
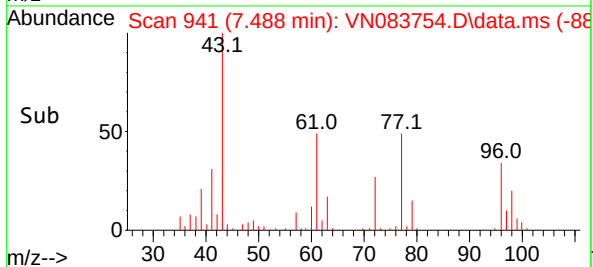
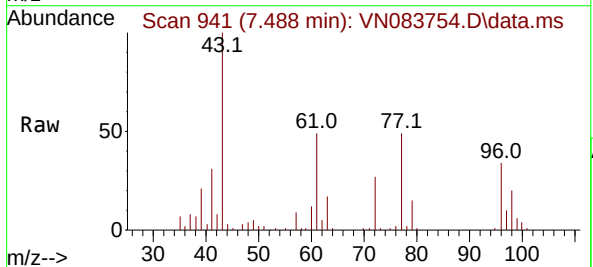
Manual Integrations
APPROVED

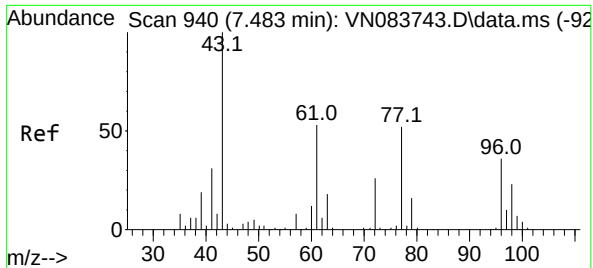
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#26
2,2-Dichloropropane
Concen: 18.480 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

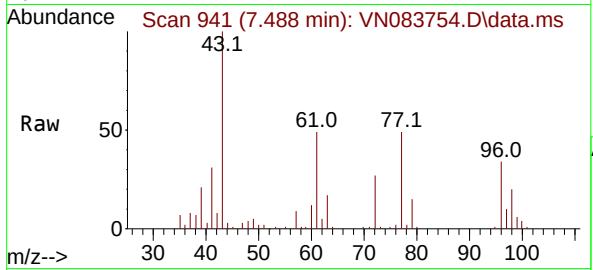
Tgt Ion: 77 Resp: 60404
Ion Ratio Lower Upper
77 100
97 20.3 10.2 30.4





#27
cis-1,2-Dichloroethene
Concen: 18.540 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

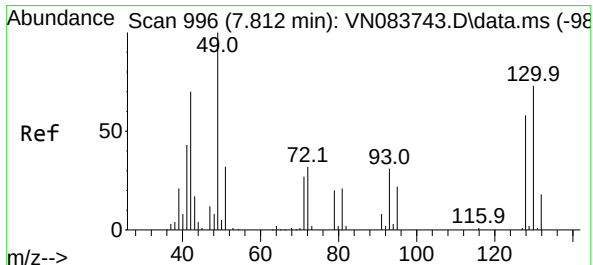
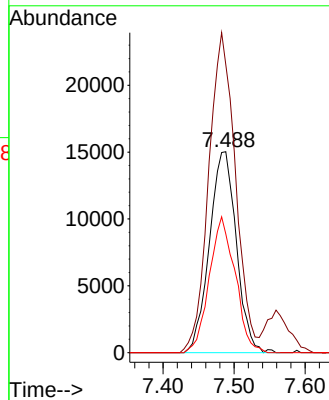
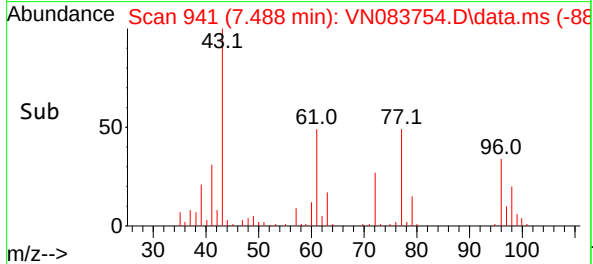
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



Tgt Ion: 96 Resp: 3961
Ion Ratio Lower Upper
96 100
61 158.4 0.0 306.2
98 65.0 0.0 128.6

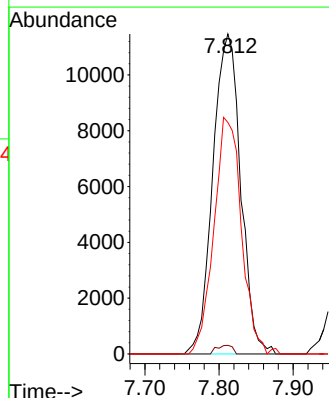
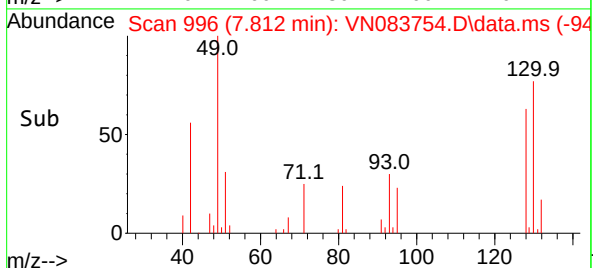
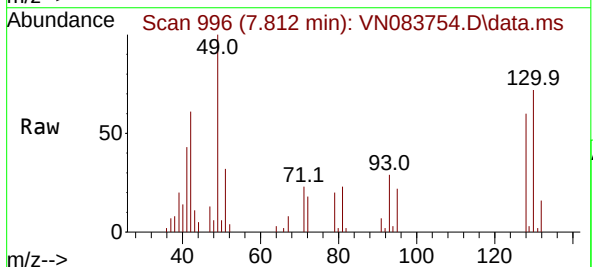
Manual Integrations
APPROVED

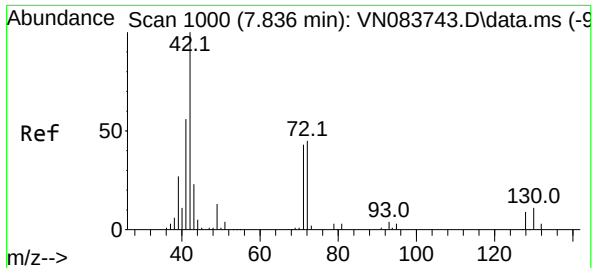
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#28
Bromochloromethane
Concen: 20.037 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 49 Resp: 29949
Ion Ratio Lower Upper
49 100
129 1.5 0.0 3.4
130 73.0 60.2 90.2





#29

Tetrahydrofuran

Concen: 101.550 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBSD01

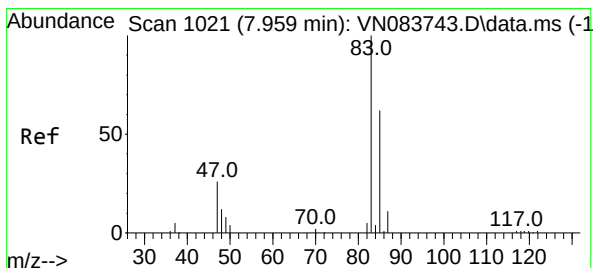
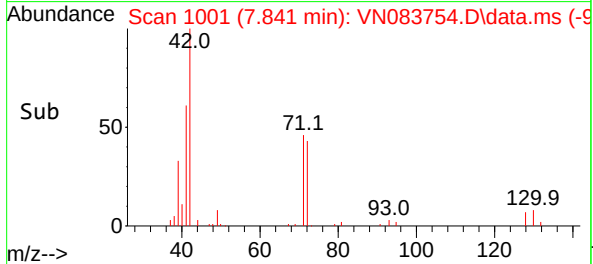
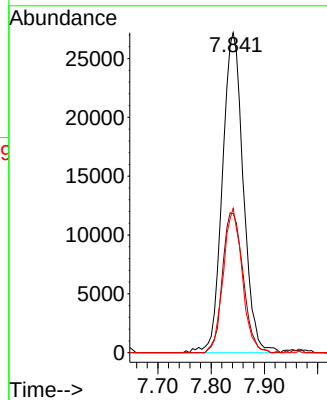
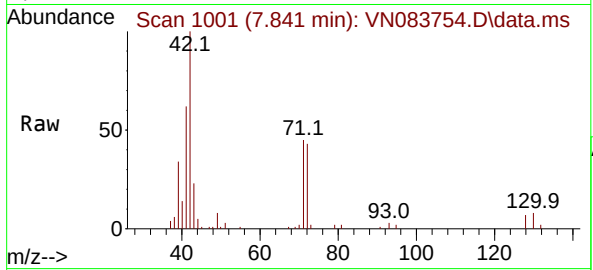
Tgt Ion:	42	Resp:	74078
Ion	Ratio	Lower	Upper
42	100		
72	43.0	35.9	53.9
71	40.8	33.9	50.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#30

Chloroform

Concen: 18.235 ug/l

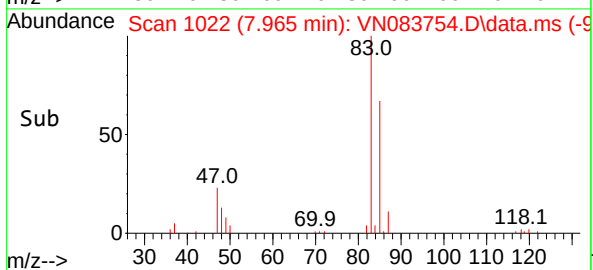
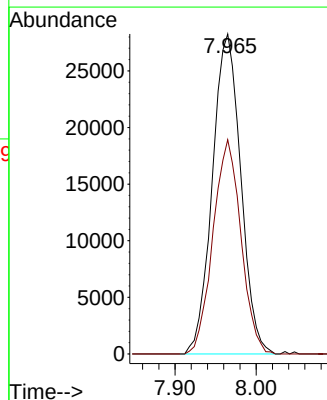
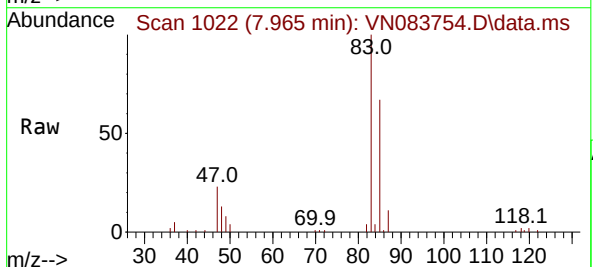
RT: 7.965 min Scan# 1022

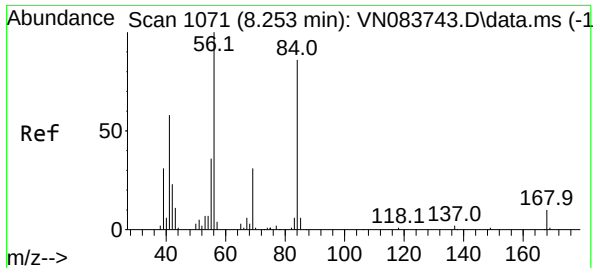
Delta R.T. 0.006 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Tgt Ion:	83	Resp:	68713
Ion	Ratio	Lower	Upper
83	100		
85	66.9	52.8	79.2





#31

Cyclohexane

Concen: 17.809 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBSD01

Tgt Ion: 56 Resp: 60268

Ion Ratio Lower Upper

56 100

69 28.3 26.9 40.3

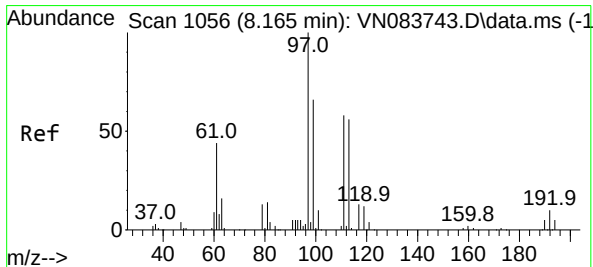
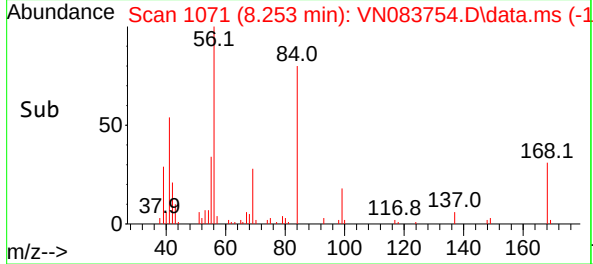
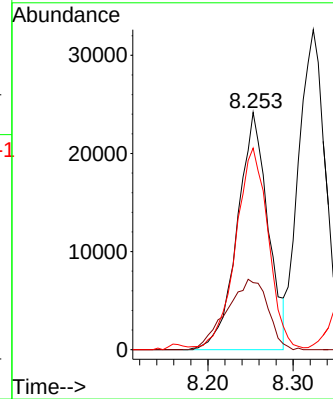
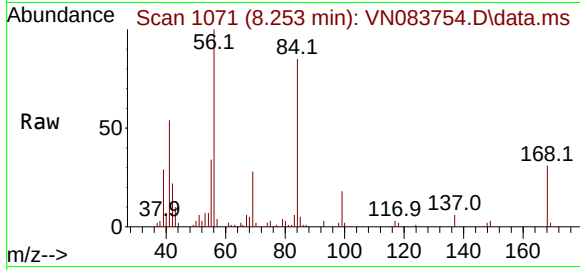
84 83.4 69.2 103.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#32

1,1,1-Trichloroethane

Concen: 18.314 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

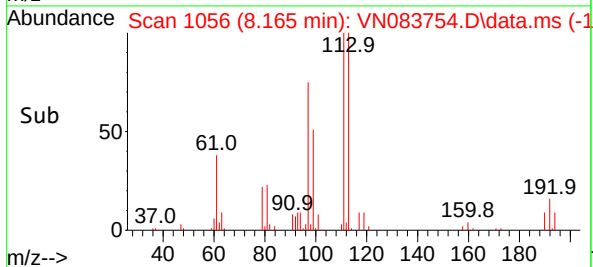
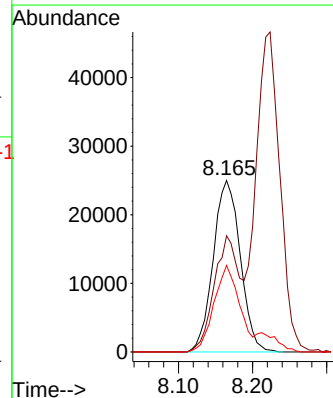
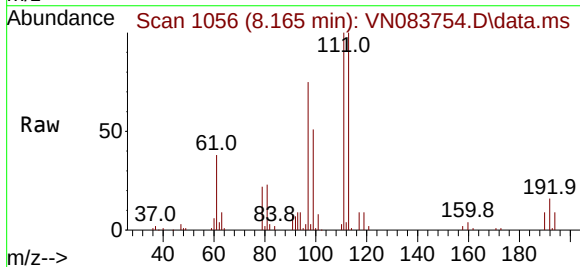
Tgt Ion: 97 Resp: 63454

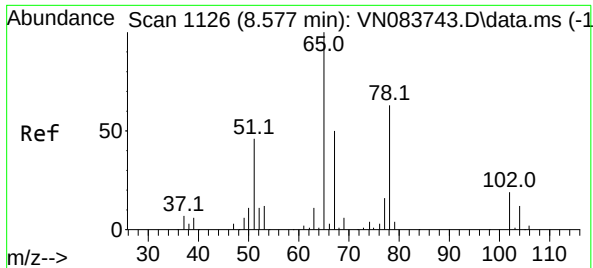
Ion Ratio Lower Upper

97 100

99 63.9 52.3 78.5

61 47.4 38.2 57.2





#33

1,2-Dichloroethane-d4

Concen: 46.908 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBSD01

Tgt Ion: 65 Resp: 109839

Ion Ratio Lower Upper

65 100

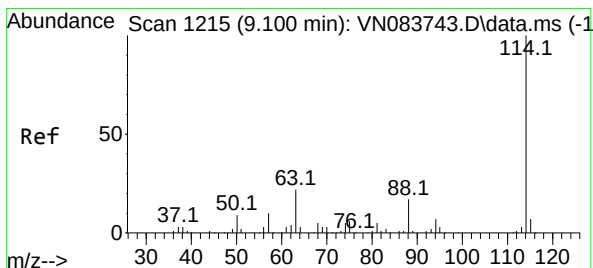
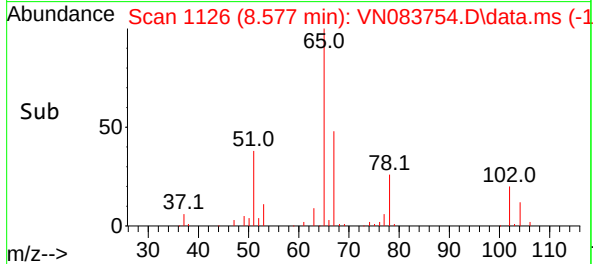
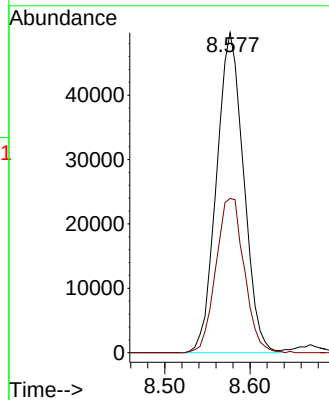
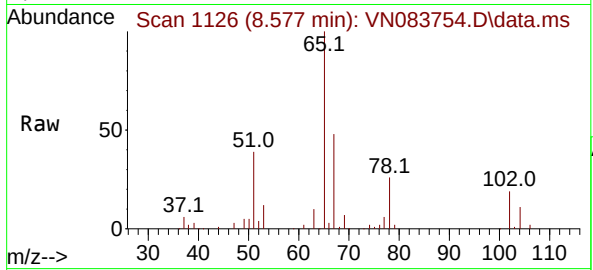
67 50.4 0.0 100.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

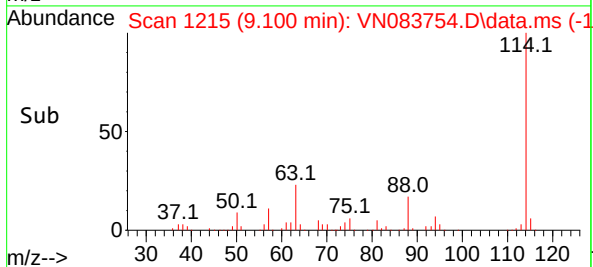
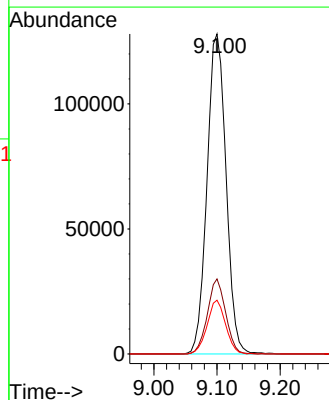
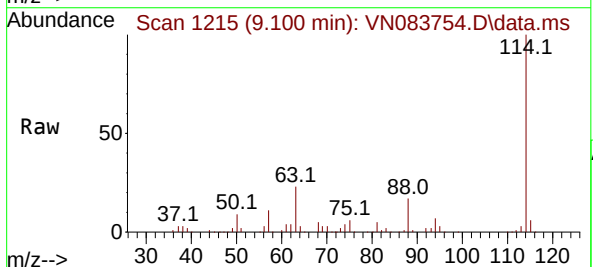
Tgt Ion:114 Resp: 268277

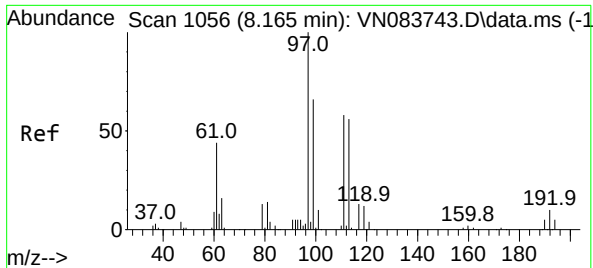
Ion Ratio Lower Upper

114 100

63 23.4 0.0 43.4

88 16.8 0.0 32.6





#35

Dibromofluoromethane

Concen: 45.830 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBSD01

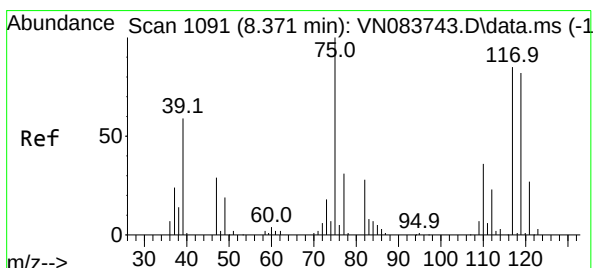
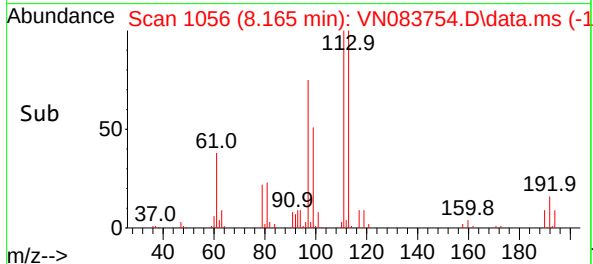
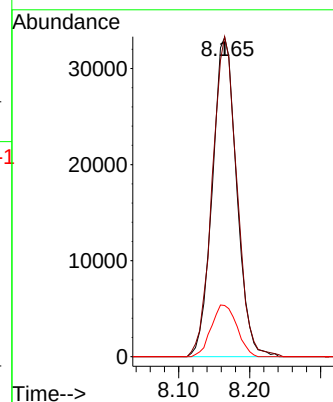
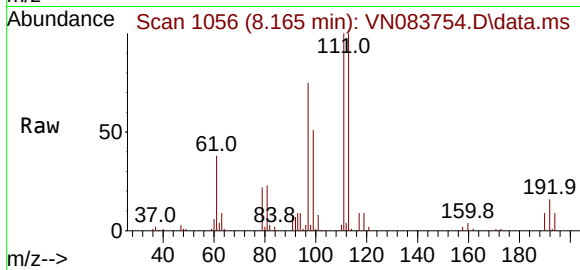
Tgt Ion:	113	Resp:	7871
Ion Ratio	Lower	Upper	
113	100		
111	101.3	82.6	124.0
192	17.2	14.3	21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#36

1,1-Dichloropropene

Concen: 18.135 ug/l

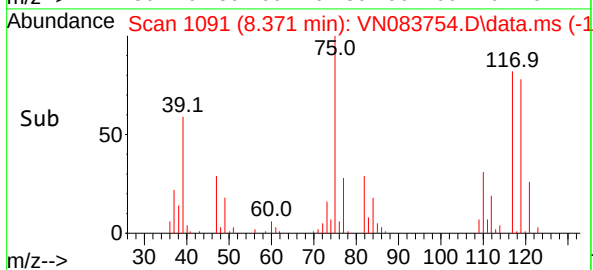
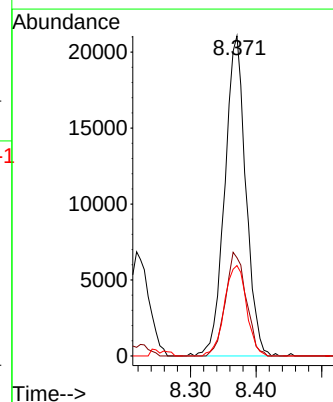
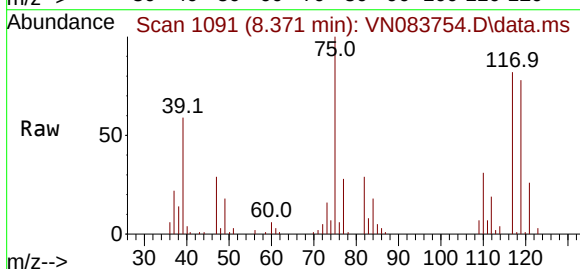
RT: 8.371 min Scan# 1091

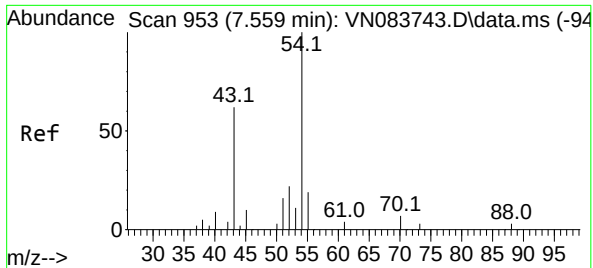
Delta R.T. -0.000 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Tgt Ion:	75	Resp:	46881
Ion Ratio	Lower	Upper	
75	100		
110	32.1	16.7	50.1
77	29.7	25.2	37.8





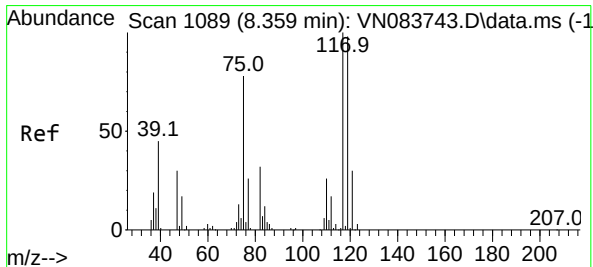
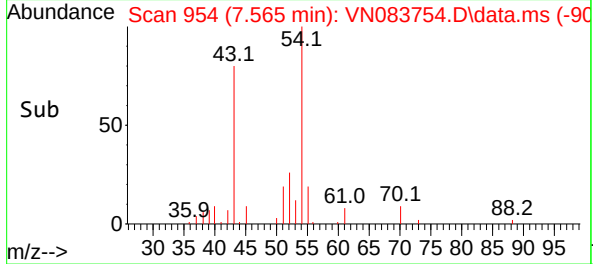
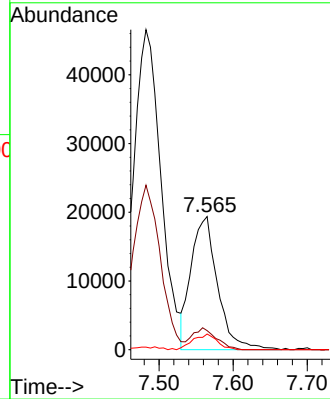
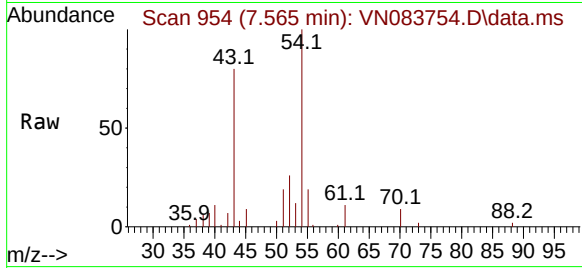
#37
Ethyl Acetate
Concen: 20.571 ug/l
RT: 7.565 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Tgt Ion: 43 Resp: 4826
Ion Ratio Lower Upper
43 100
61 14.5 11.1 16.7
70 10.6 8.8 13.2

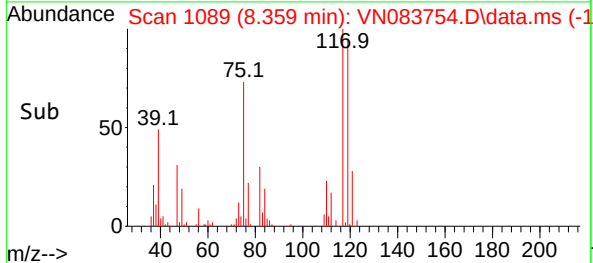
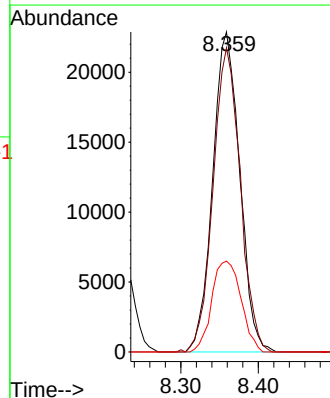
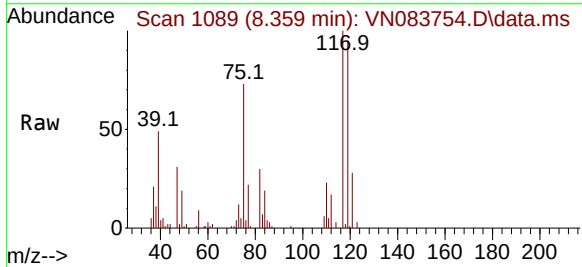
Manual Integrations
APPROVED

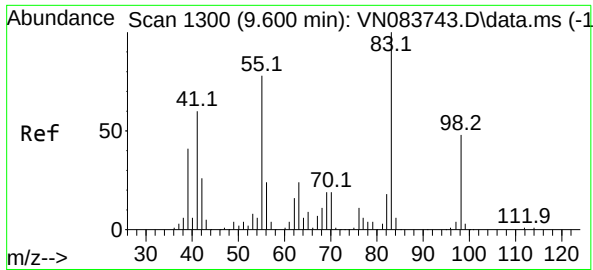
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#38
Carbon Tetrachloride
Concen: 18.897 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:117 Resp: 55419
Ion Ratio Lower Upper
117 100
119 95.1 76.1 114.1
121 28.4 24.1 36.1





#39

Methylcyclohexane

Concen: 18.682 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Tgt Ion: 83 Resp: 5496

Ion Ratio Lower Upper

83 100

55 79.5 62.2 93.4

98 46.2 37.6 56.4

Instrument :

MSVOA_N

ClientSampleId :

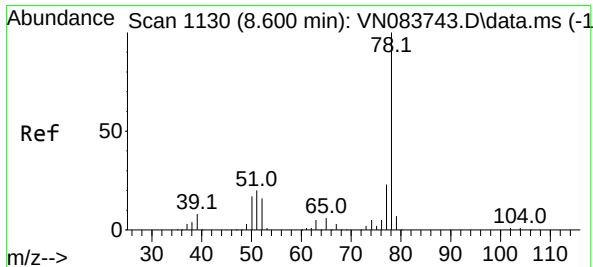
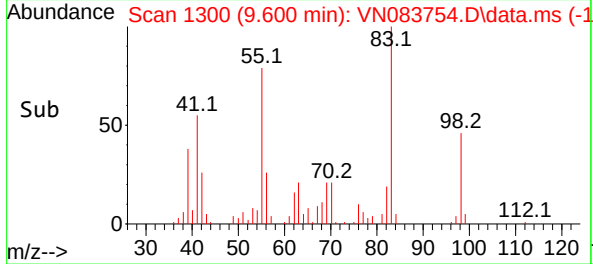
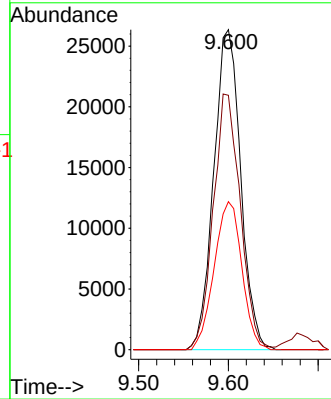
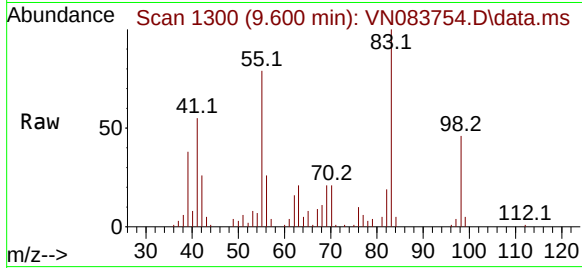
VN0910WBSD01

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#40

Benzene

Concen: 18.793 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VN083754.D

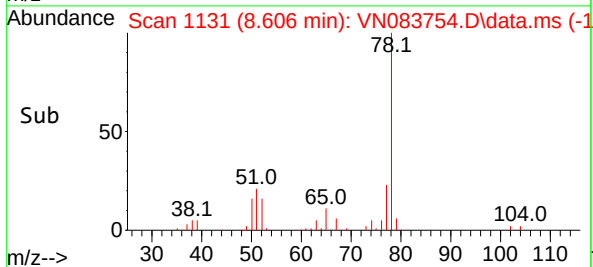
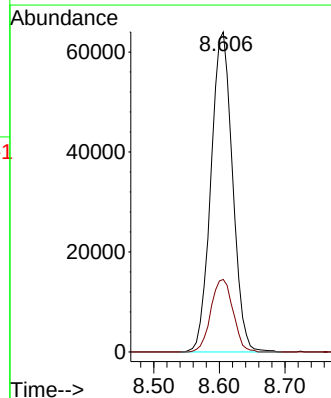
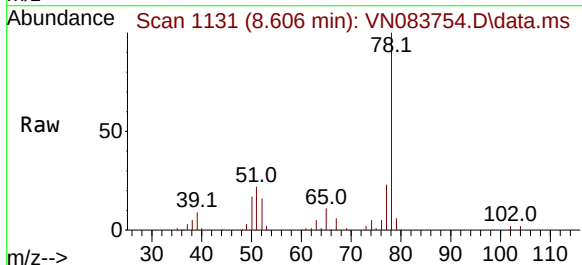
Acq: 10 Sep 2024 16:07

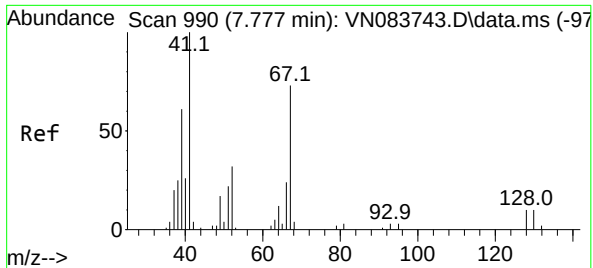
Tgt Ion: 78 Resp: 146220

Ion Ratio Lower Upper

78 100

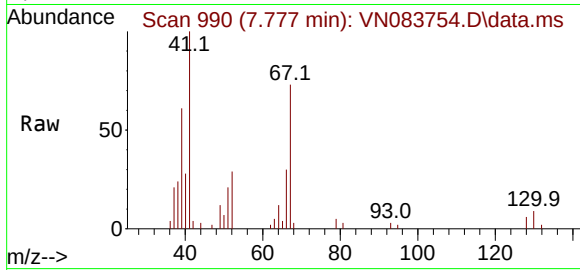
77 22.7 19.0 28.6





#41
Methacrylonitrile
Concen: 19.134 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

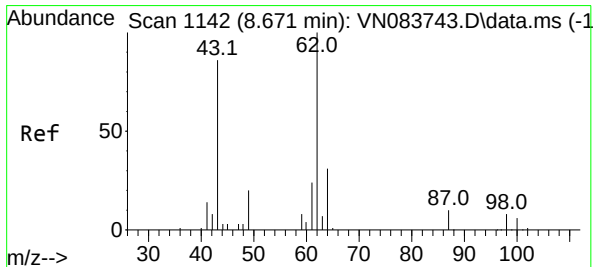
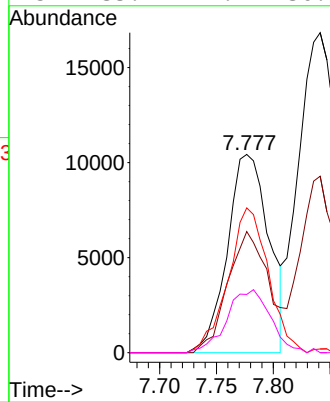
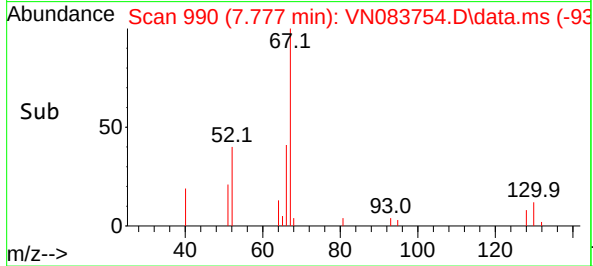
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



Tgt Ion: 41 Resp: 2655
Ion Ratio Lower Upper
41 100
39 62.0 45.4 68.2
67 70.3 55.9 83.9
52 33.4 24.1 36.1

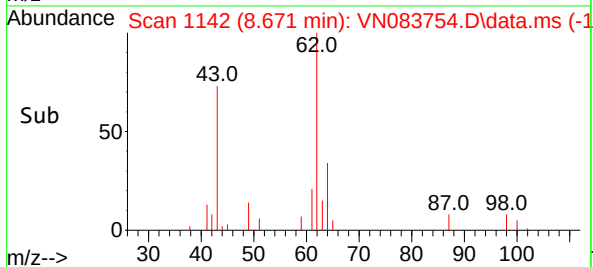
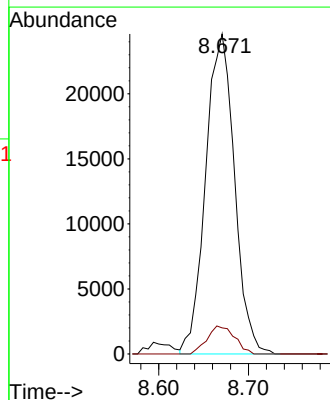
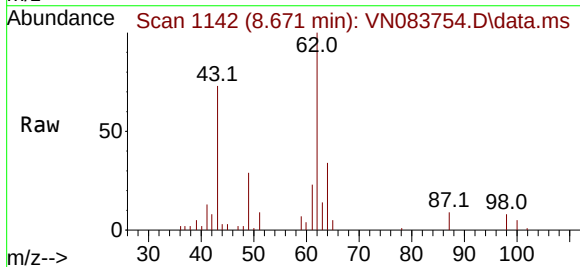
Manual Integrations
APPROVED

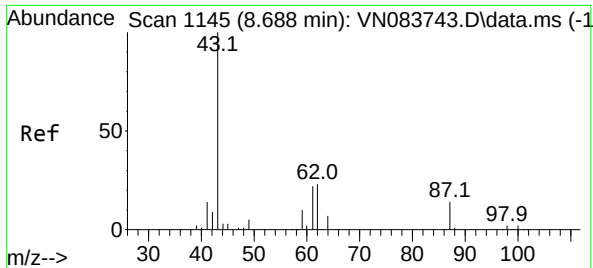
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#42
1,2-Dichloroethane
Concen: 18.902 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 62 Resp: 54955
Ion Ratio Lower Upper
62 100
98 8.3 0.0 16.6





#43

Isopropyl Acetate

Concen: 19.401 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBSD01

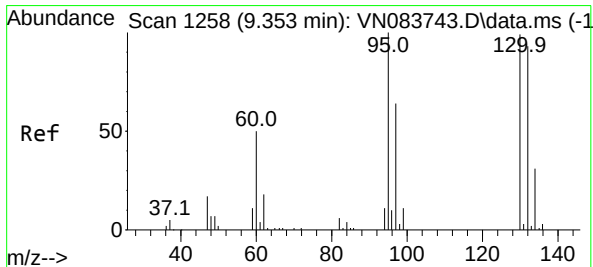
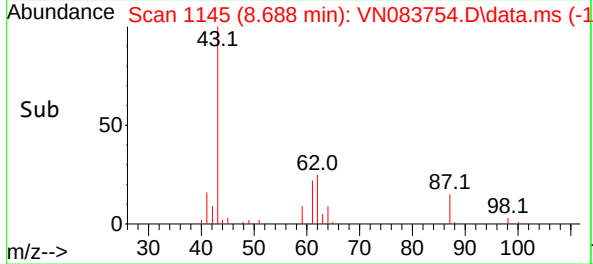
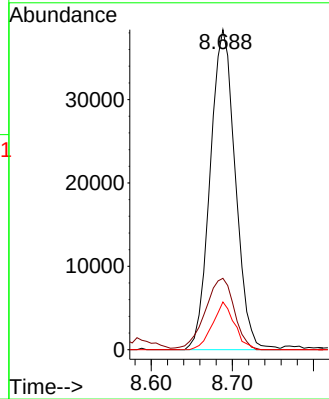
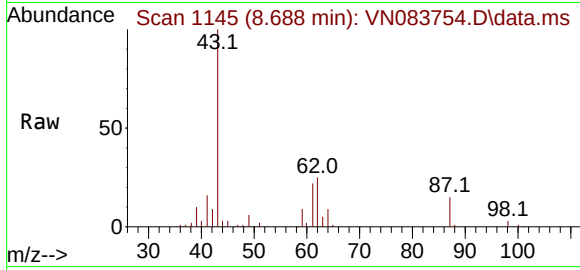
Tgt Ion: 43	Resp: 8249
Ion Ratio	Lower Upper
43 100	
61 25.9	19.4 29.0
87 13.1	9.8 14.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#44

Trichloroethene

Concen: 18.679 ug/l

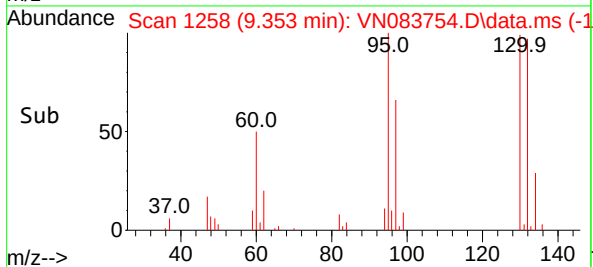
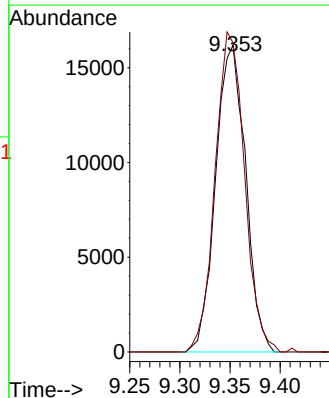
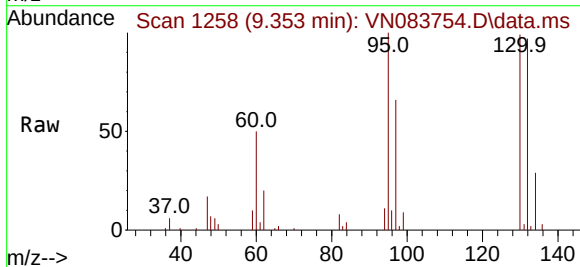
RT: 9.353 min Scan# 1258

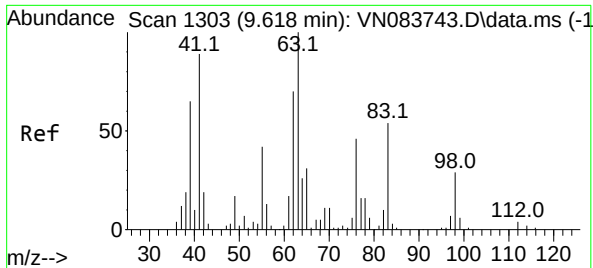
Delta R.T. -0.000 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Tgt Ion:130	Resp: 33656
Ion Ratio	Lower Upper
130 100	
95 100.8	0.0 200.4





#45

1,2-Dichloropropane

Concen: 18.507 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBSD01

Tgt Ion: 63 Resp: 3480

Ion Ratio Lower Upper

63 100

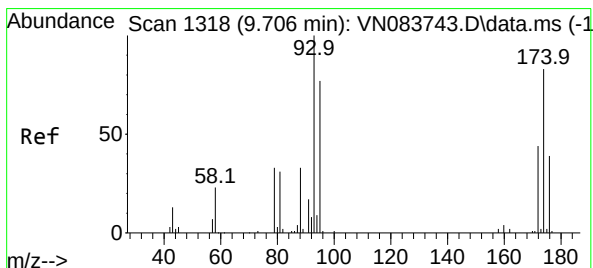
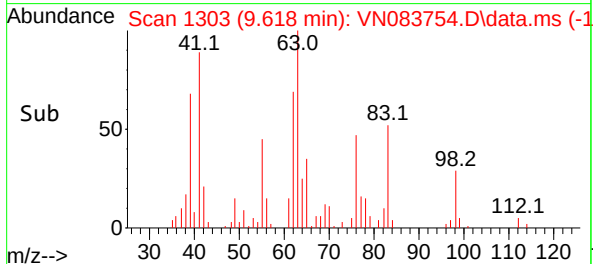
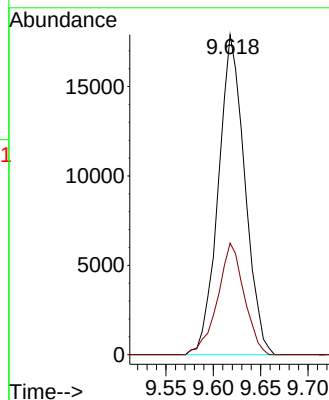
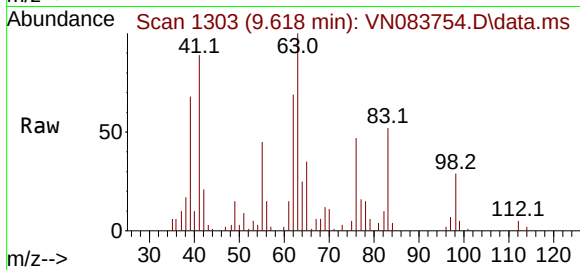
65 34.9 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#46

Dibromomethane

Concen: 19.414 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

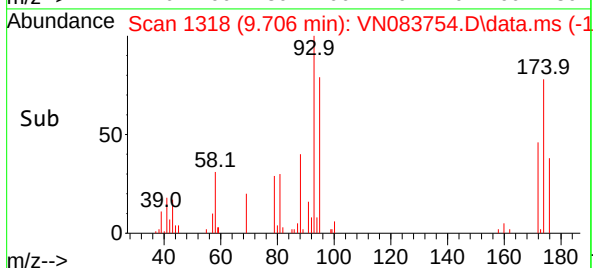
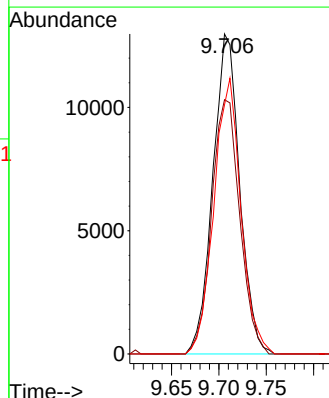
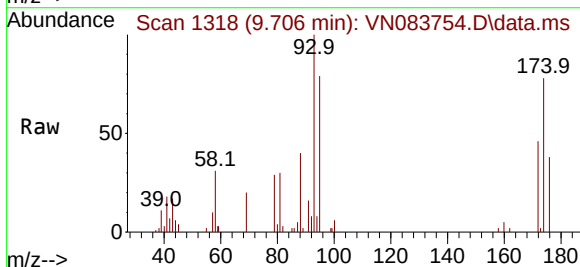
Tgt Ion: 93 Resp: 25572

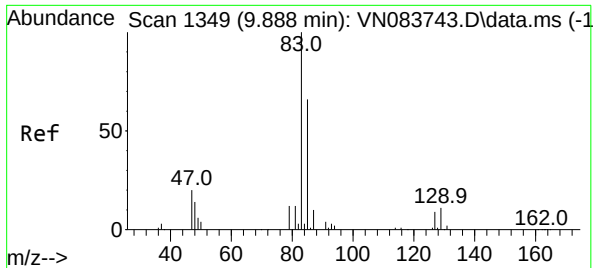
Ion Ratio Lower Upper

93 100

95 83.5 65.3 97.9

174 87.0 71.0 106.4





#47

Bromodichloromethane

Concen: 18.757 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.000 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBSD01

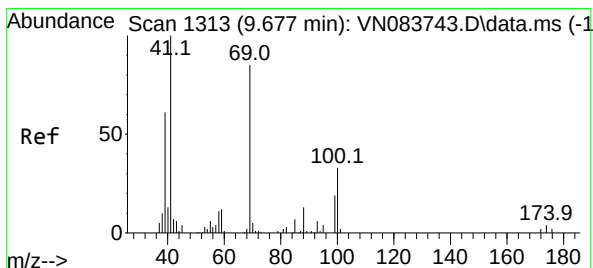
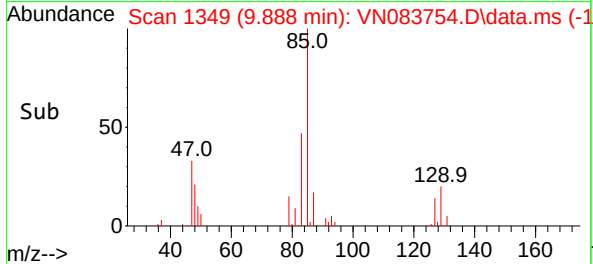
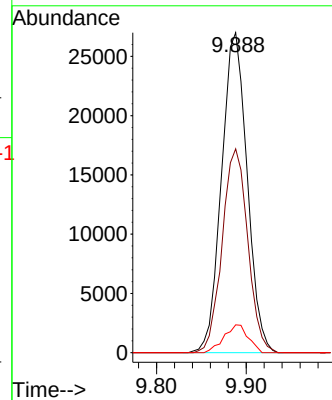
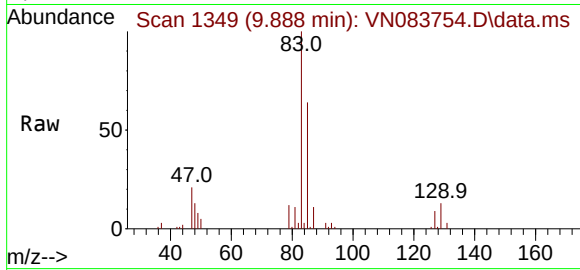
Tgt Ion: 83	Resp: 53470
Ion Ratio	Lower Upper
83 100	
85 63.7	51.8 77.8
127 8.7	6.6 9.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#48

Methyl methacrylate

Concen: 19.176 ug/l

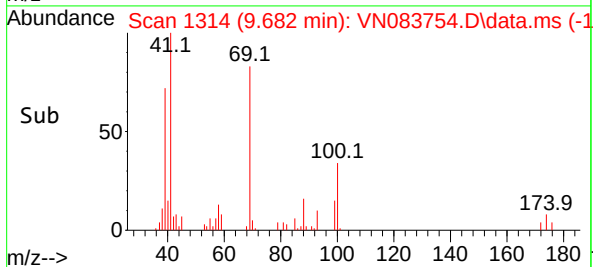
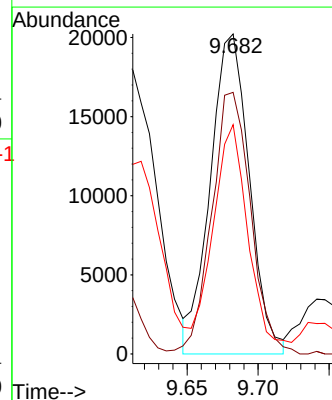
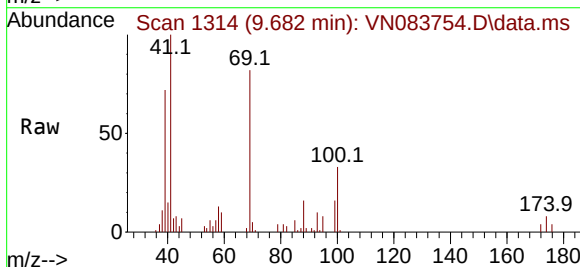
RT: 9.682 min Scan# 1314

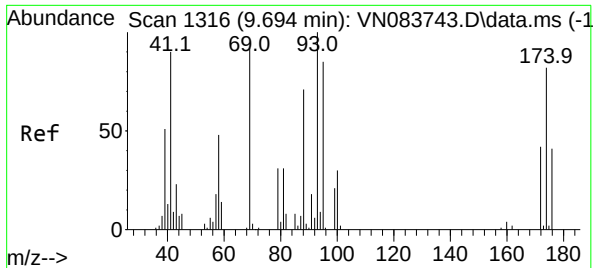
Delta R.T. 0.006 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Tgt Ion: 41	Resp: 38684
Ion Ratio	Lower Upper
41 100	
69 81.7	64.3 96.5
39 65.2	48.9 73.3





#49

1,4-Dioxane

Concen: 390.637 ug/l

RT: 9.694 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBSD01

Tgt Ion: 88 Resp: 12964

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

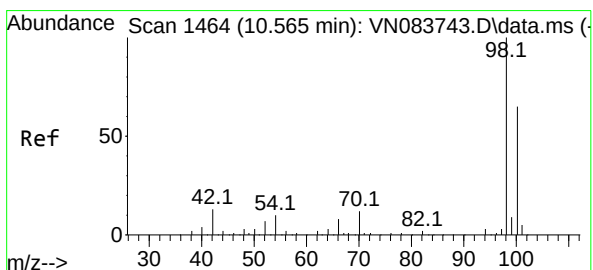
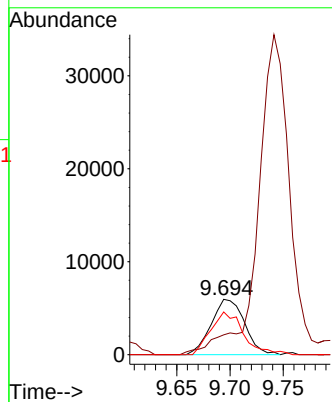
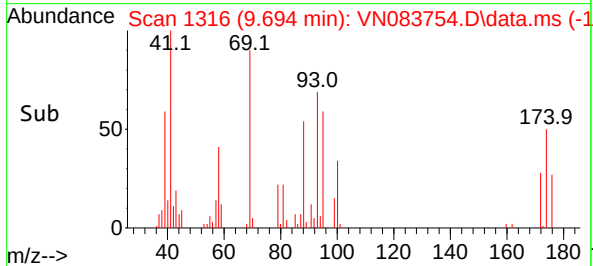
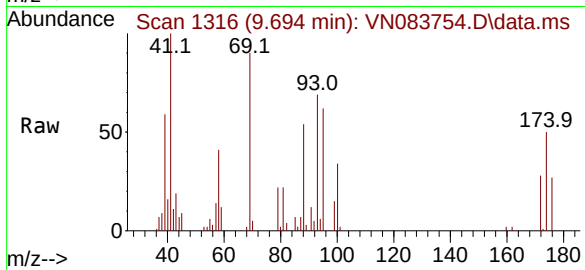
58 76.2 57.1 85.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#50

Toluene-d8

Concen: 48.443 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN083754.D

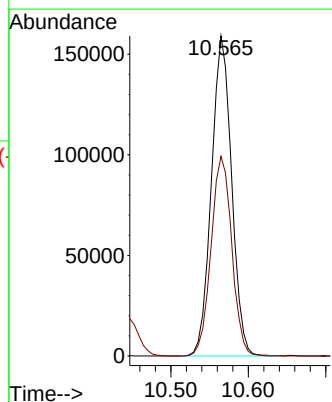
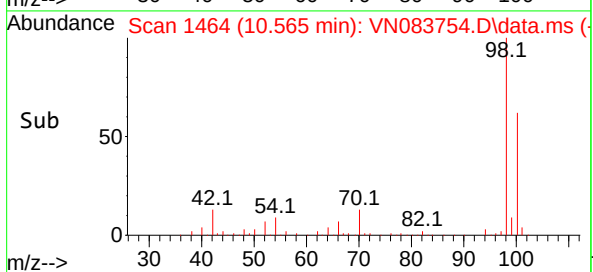
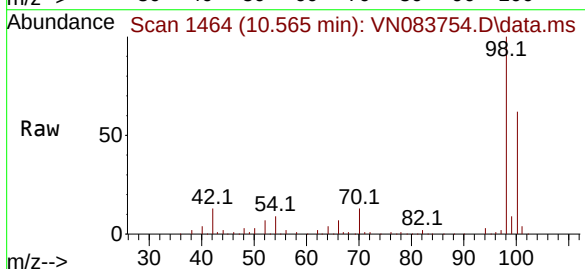
Acq: 10 Sep 2024 16:07

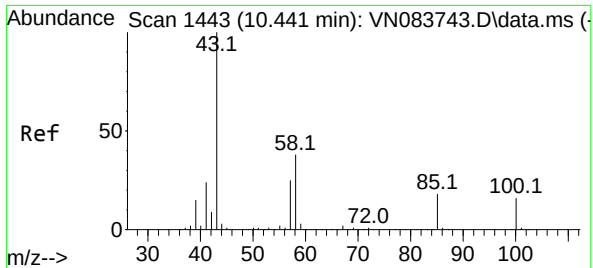
Tgt Ion: 98 Resp: 287623

Ion Ratio Lower Upper

98 100

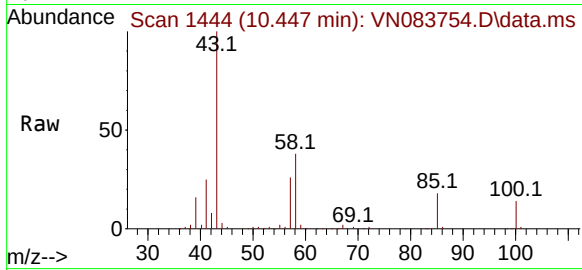
100 63.9 52.0 78.0





#51
4-Methyl-2-Pentanone
Concen: 101.564 ug/l
RT: 10.447 min Scan# 1443
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

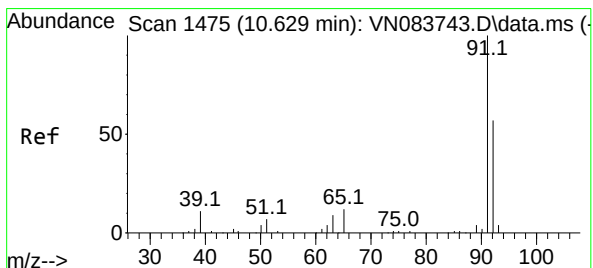
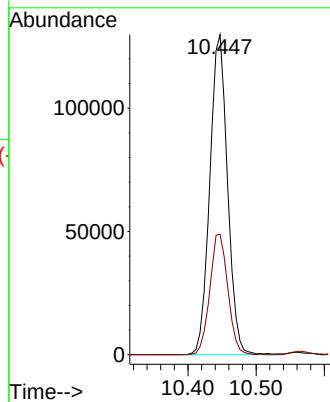
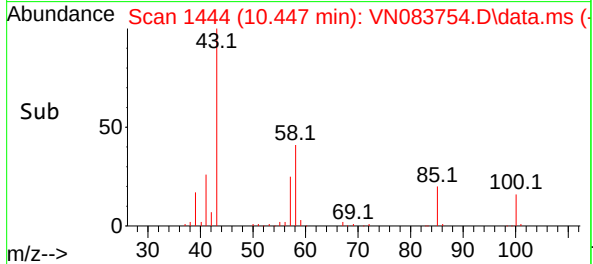
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



Tgt Ion: 43 Resp: 235084
Ion Ratio Lower Upper
43 100
58 38.3 31.6 47.4

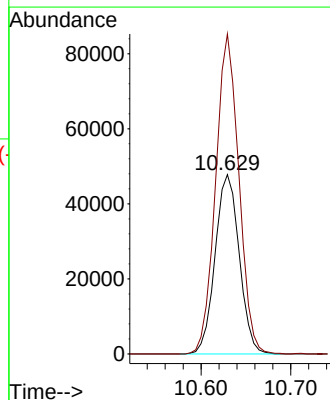
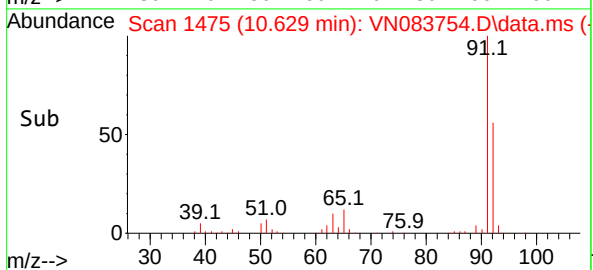
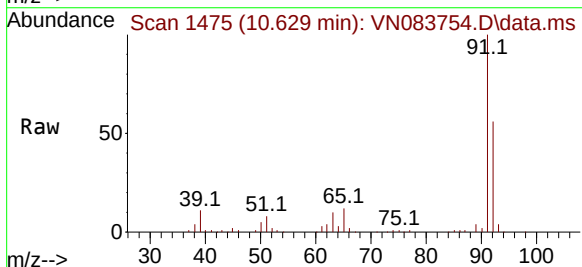
Manual Integrations
APPROVED

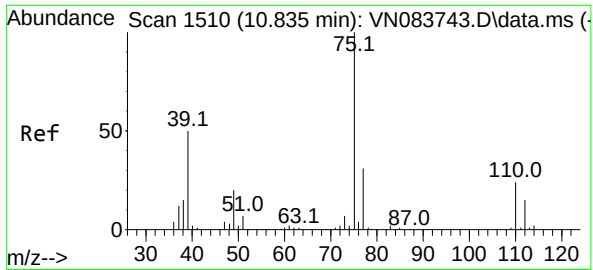
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#52
Toluene
Concen: 18.716 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

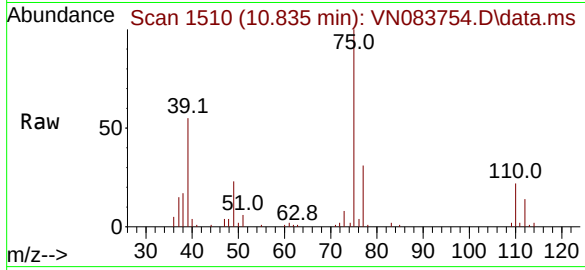
Tgt Ion: 92 Resp: 89075
Ion Ratio Lower Upper
92 100
91 172.1 134.7 202.1





#53
t-1,3-Dichloropropene
Concen: 18.919 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

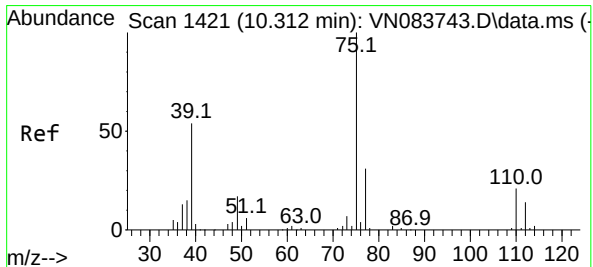
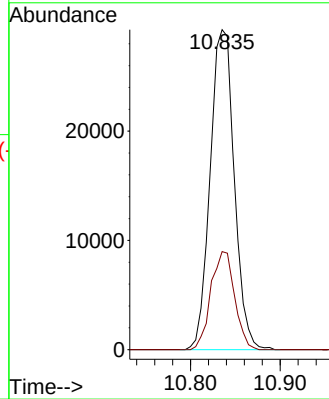
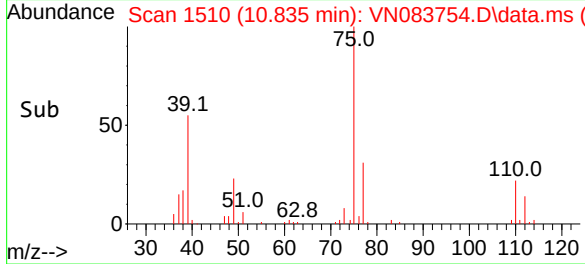
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



Tgt Ion: 75 Resp: 5466
Ion Ratio Lower Upper
75 100
77 30.7 25.8 38.6

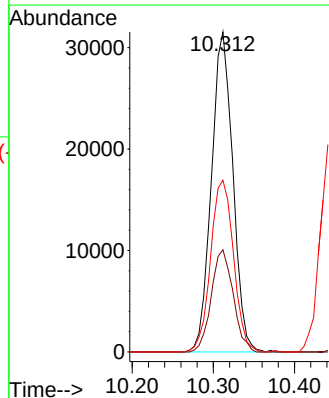
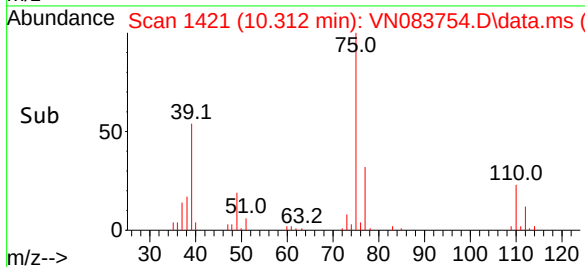
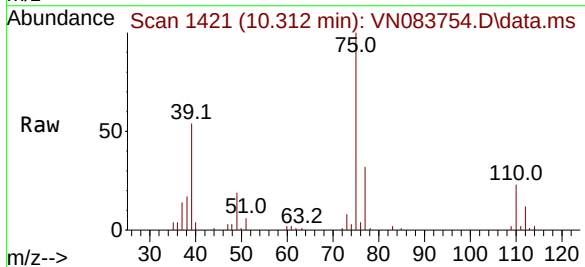
Manual Integrations
APPROVED

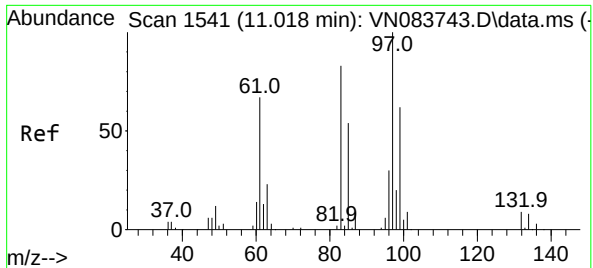
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#54
cis-1,3-Dichloropropene
Concen: 19.062 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

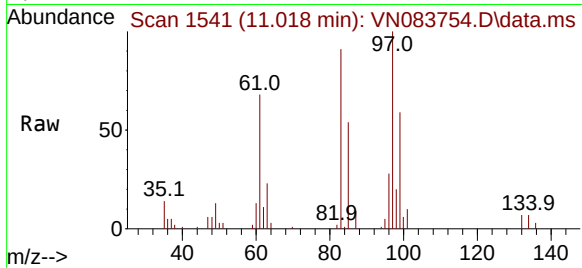
Tgt Ion: 75 Resp: 57857
Ion Ratio Lower Upper
75 100
77 31.9 25.0 37.6
39 53.6 42.6 64.0





#55
1,1,2-Trichloroethane
Concen: 18.962 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

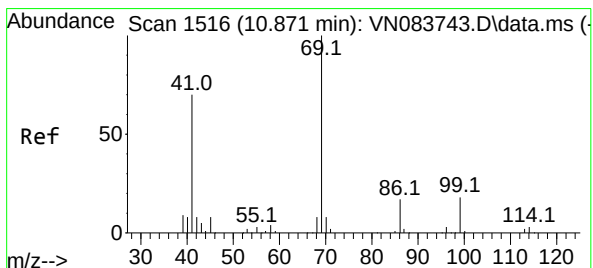
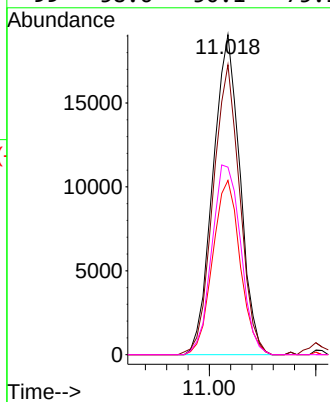
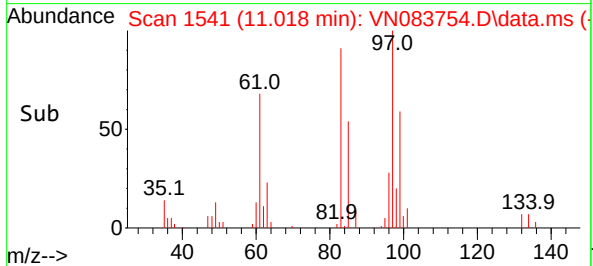
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



Tgt Ion: 97 Resp: 3369
Ion Ratio Lower Upper
97 100
83 90.6 67.5 101.3
85 54.5 44.2 66.2
99 58.6 50.1 75.1

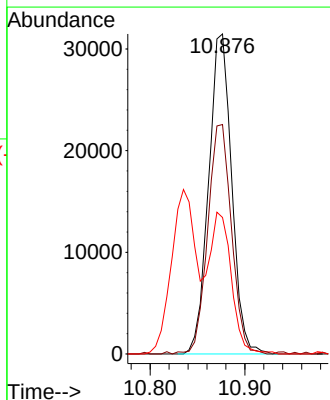
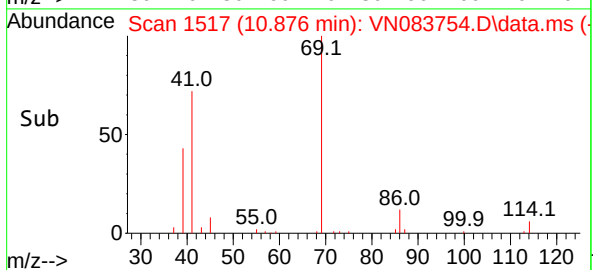
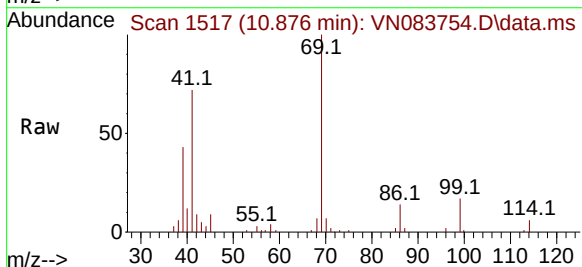
Manual Integrations
APPROVED

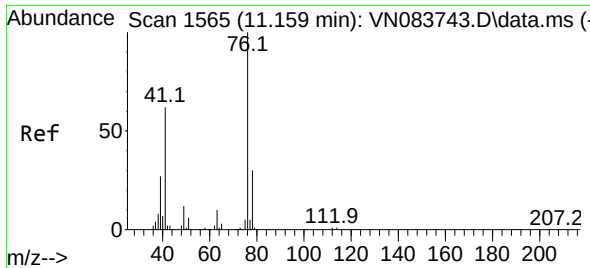
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#56
Ethyl methacrylate
Concen: 19.465 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

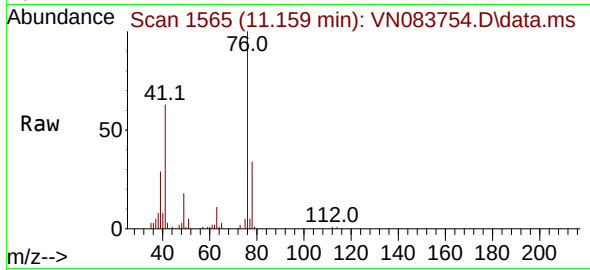
Tgt Ion: 69 Resp: 53210
Ion Ratio Lower Upper
69 100
41 73.9 53.9 80.9
39 44.0 32.6 48.8





#57
1,3-Dichloropropane
Concen: 19.425 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

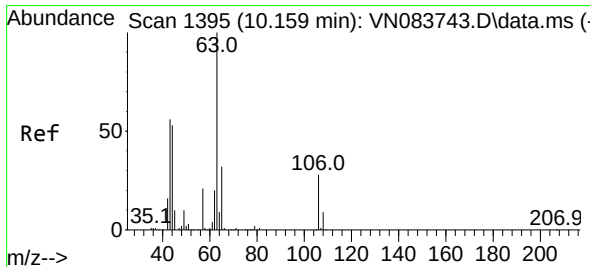
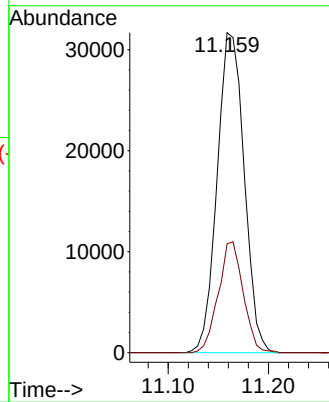
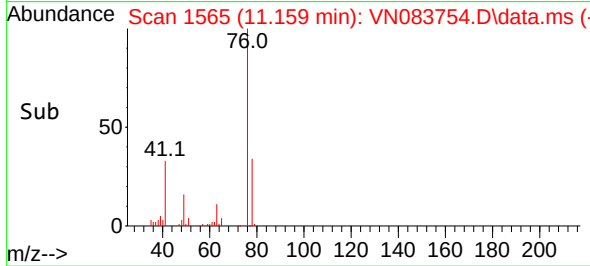
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



Tgt Ion: 76 Resp: 5931
Ion Ratio Lower Upper
76 100
78 32.0 25.8 38.6

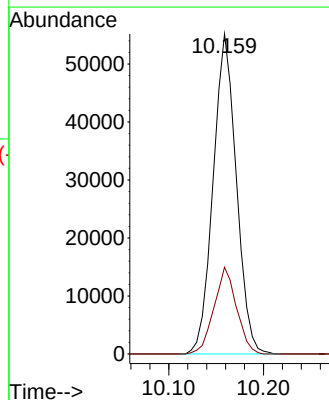
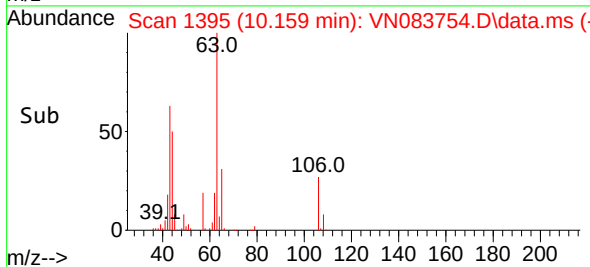
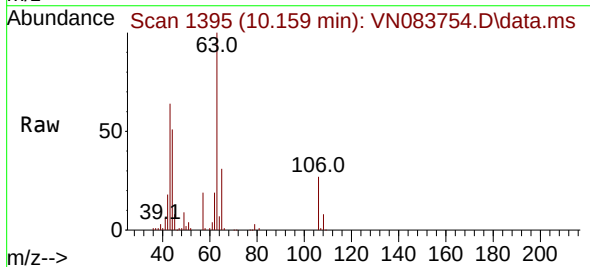
Manual Integrations
APPROVED

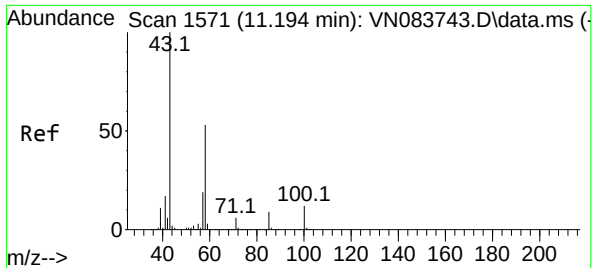
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#58
2-Chloroethyl Vinyl ether
Concen: 95.203 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

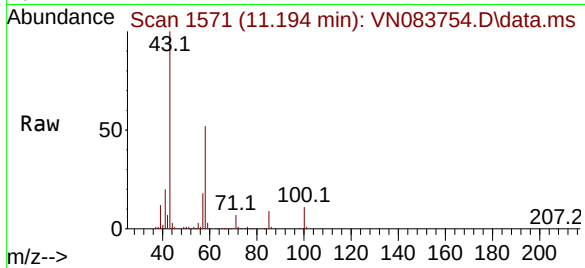
Tgt Ion: 63 Resp: 93773
Ion Ratio Lower Upper
63 100
106 26.4 23.3 34.9





#59
2-Hexanone
Concen: 103.438 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

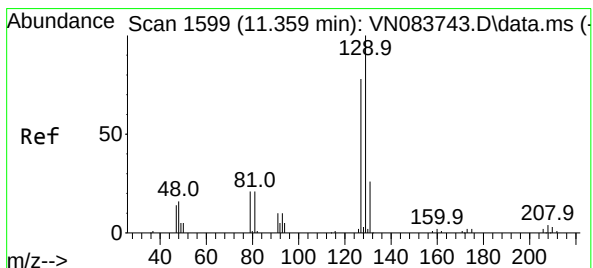
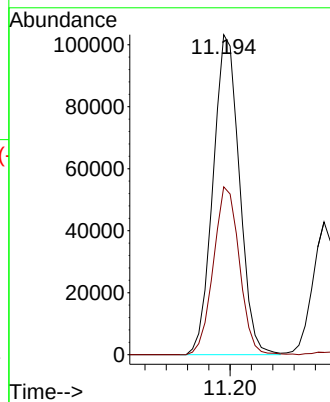
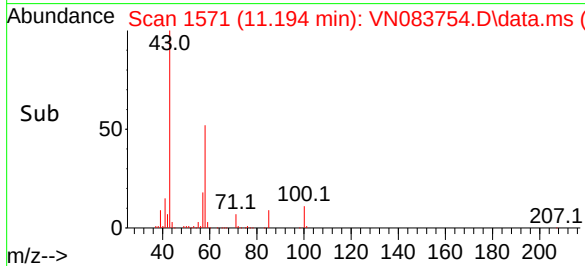
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



Tgt Ion: 43 Resp: 177100
Ion Ratio Lower Upper
43 100
58 51.7 27.2 81.5

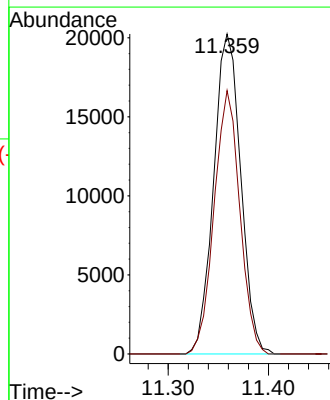
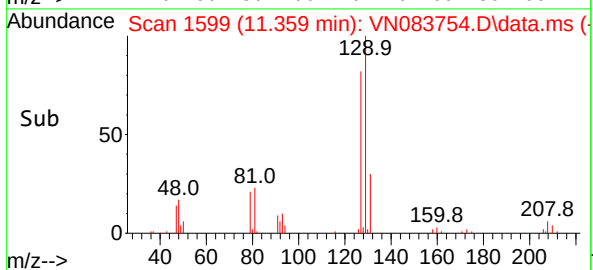
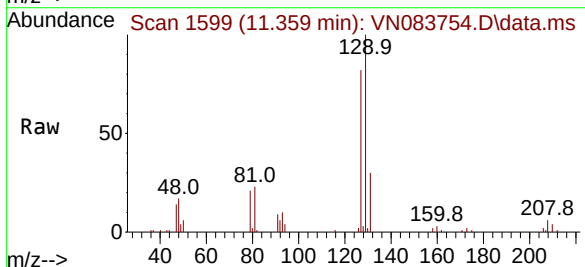
Manual Integrations
APPROVED

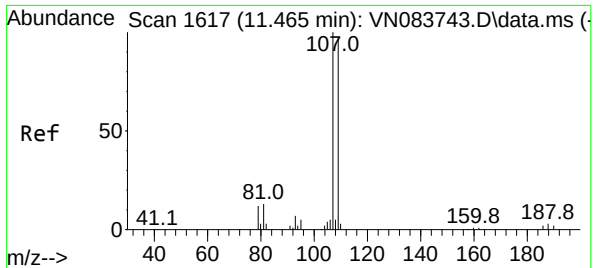
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#60
Dibromochloromethane
Concen: 19.092 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

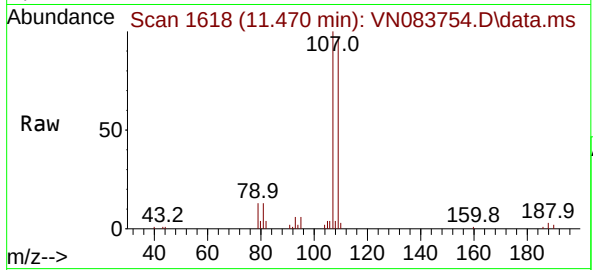
Tgt Ion:129 Resp: 37963
Ion Ratio Lower Upper
129 100
127 78.1 39.0 116.9





#61
1,2-Dibromoethane
Concen: 19.267 ug/l
RT: 11.470 min Scan# 1617
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

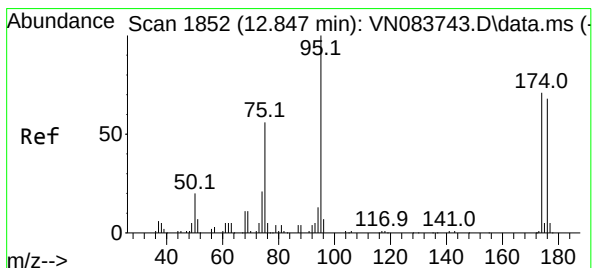
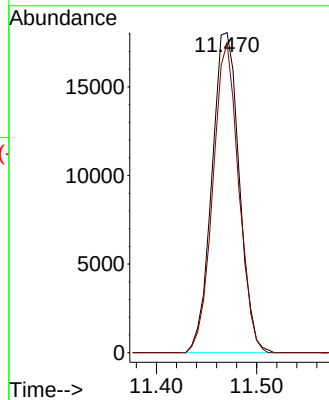
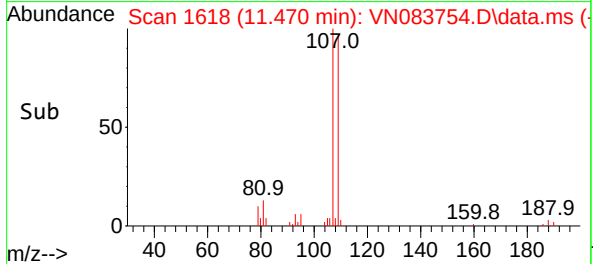
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



Tgt Ion:107 Resp: 3414
Ion Ratio Lower Upper
107 100
109 91.4 75.6 113.4

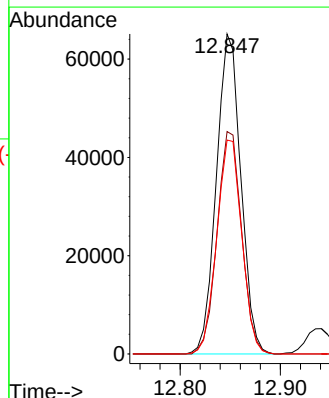
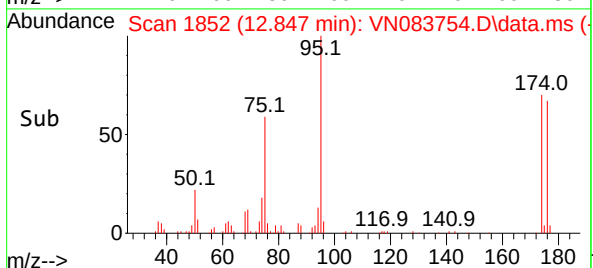
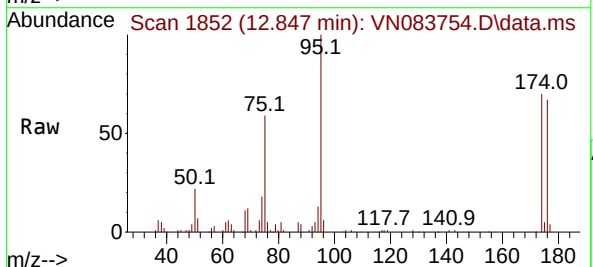
Manual Integrations
APPROVED

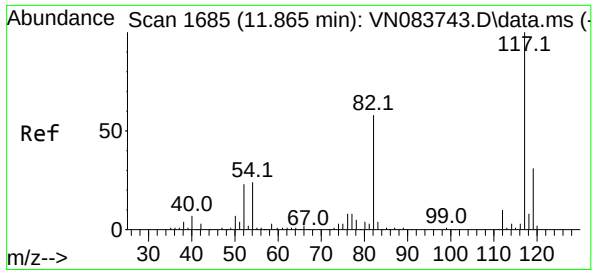
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#62
4-Bromofluorobenzene
Concen: 45.080 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

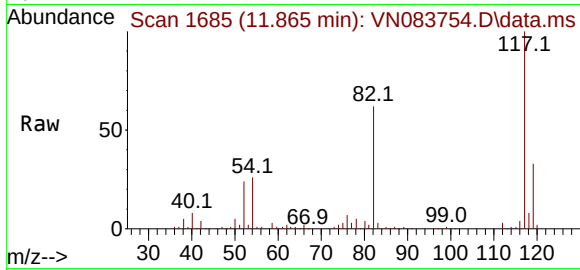
Tgt Ion: 95 Resp: 110429
Ion Ratio Lower Upper
95 100
174 69.6 0.0 139.8
176 68.2 0.0 131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

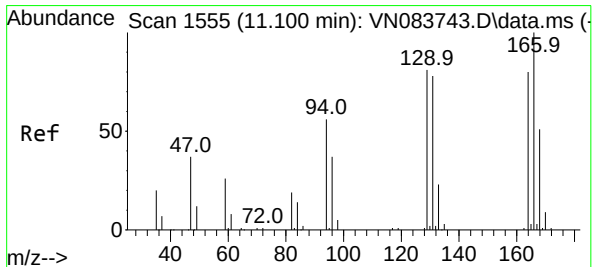
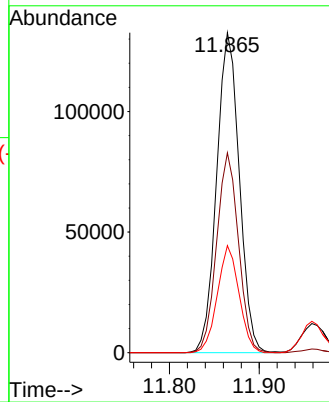
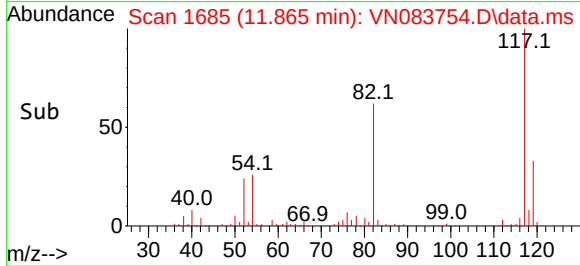
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



Tgt Ion:117 Resp: 23302
Ion Ratio Lower Upper
117 100
82 62.5 47.4 71.0
119 33.5 26.3 39.5

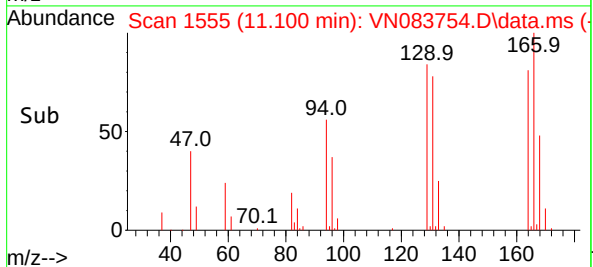
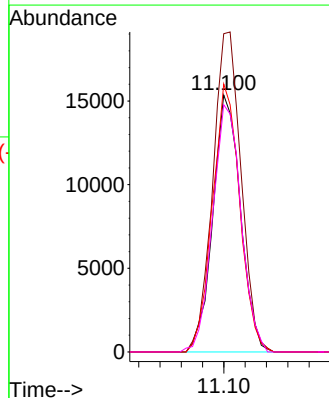
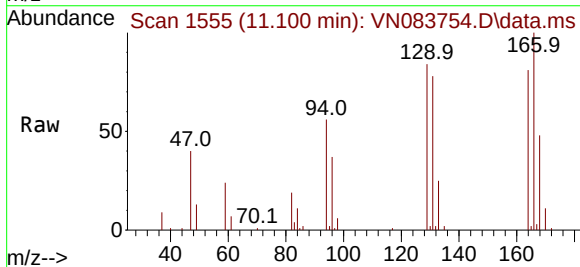
Manual Integrations
APPROVED

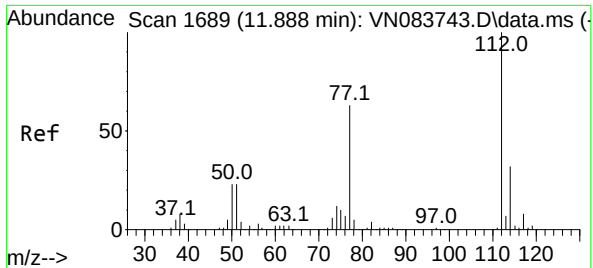
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#64
Tetrachloroethene
Concen: 17.786 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:164 Resp: 27563
Ion Ratio Lower Upper
164 100
166 123.9 103.7 155.5
129 104.3 79.9 119.9
131 96.2 78.4 117.6





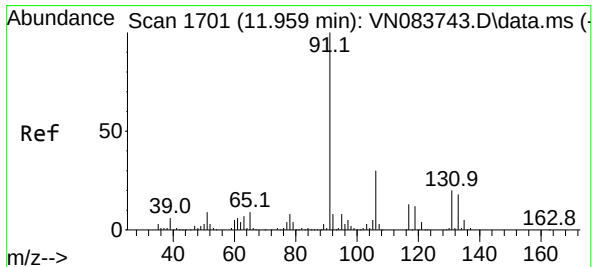
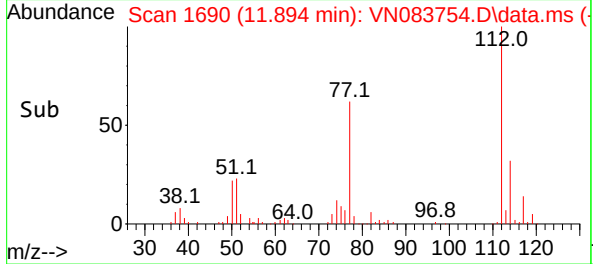
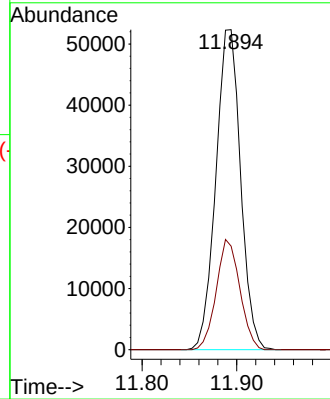
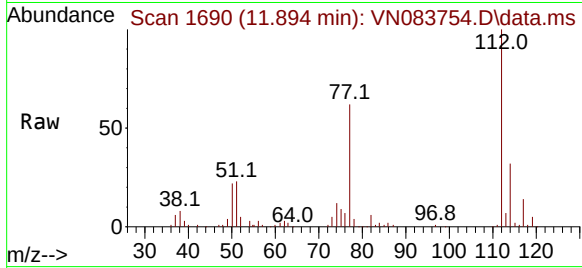
#65
Chlorobenzene
Concen: 18.347 ug/l
RT: 11.894 min Scan# 1118
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Tgt Ion:112 Resp: 95019
Ion Ratio Lower Upper
112 100
114 32.4 25.7 38.5

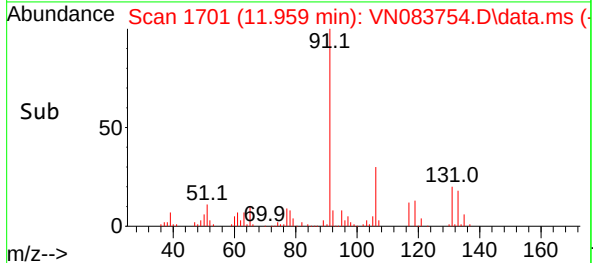
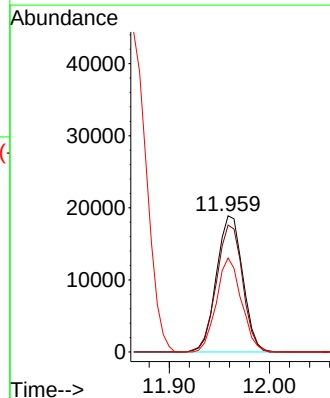
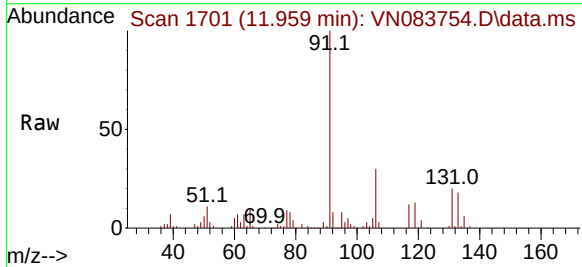
Manual Integrations
APPROVED

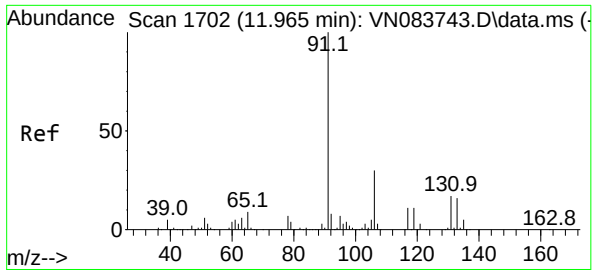
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 19.110 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

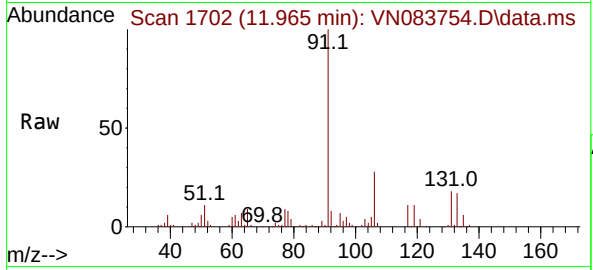
Tgt Ion:131 Resp: 34311
Ion Ratio Lower Upper
131 100
133 93.4 47.5 142.6
119 65.5 31.6 94.8





#67
Ethyl Benzene
Concen: 18.779 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

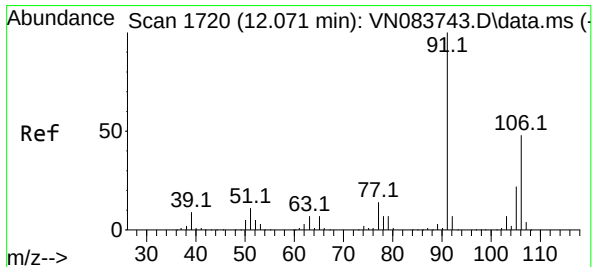
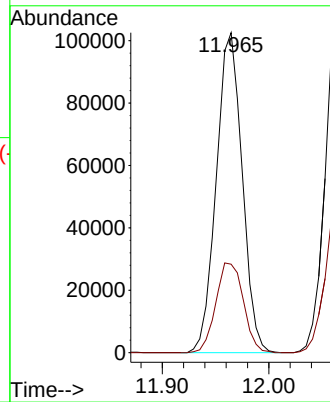
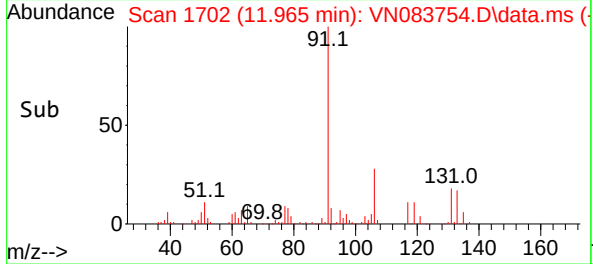
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



Tgt Ion: 91 Resp: 172772
Ion Ratio Lower Upper
91 100
106 27.6 24.3 36.5

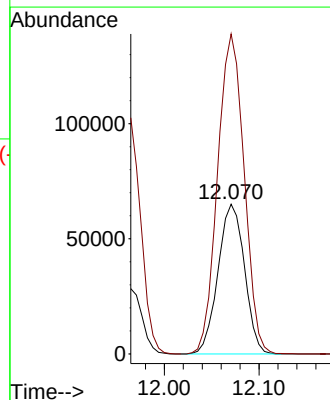
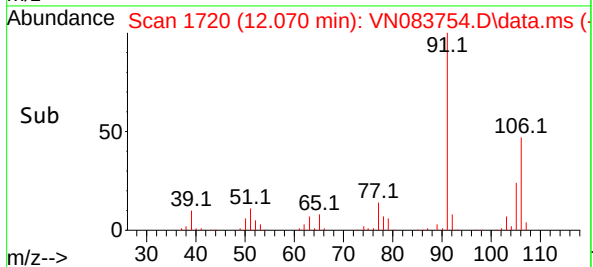
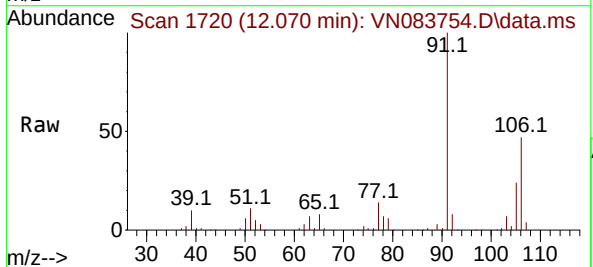
Manual Integrations
APPROVED

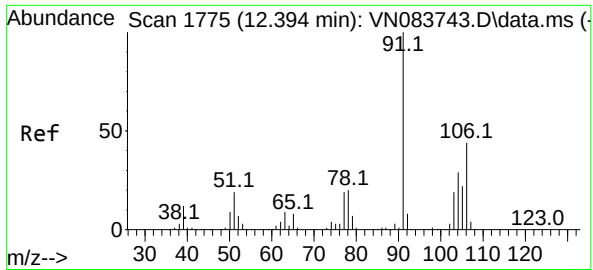
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#68
m/p-Xylenes
Concen: 36.976 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:106 Resp: 126301
Ion Ratio Lower Upper
106 100
91 214.5 169.2 253.8





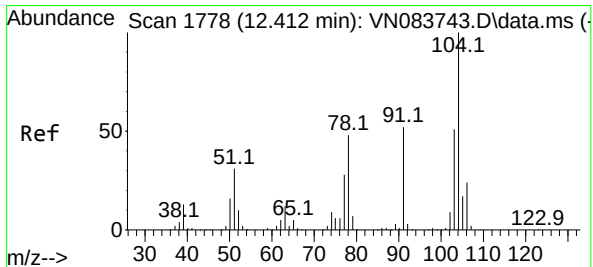
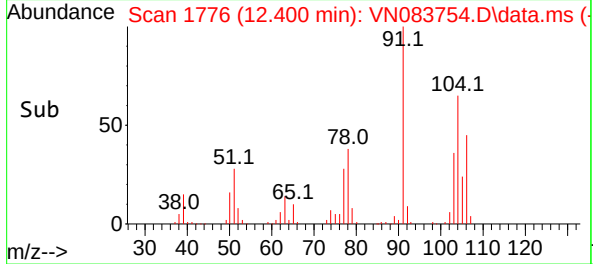
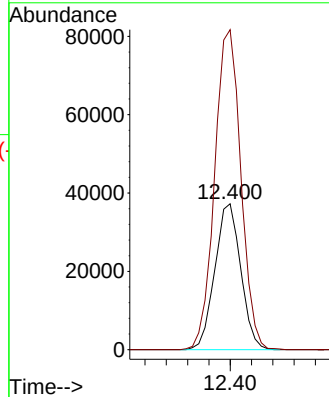
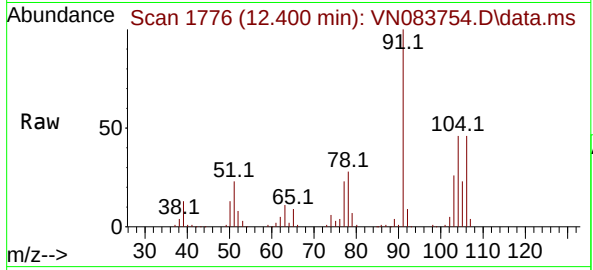
#69
o-Xylene
Concen: 18.977 ug/l
RT: 12.400 min Scan# 1775
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Tgt Ion:106 Resp: 62752
Ion Ratio Lower Upper
106 100
91 222.4 112.9 338.6

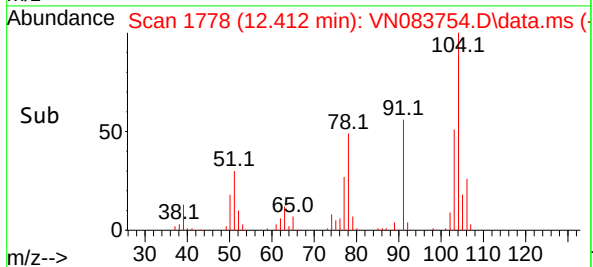
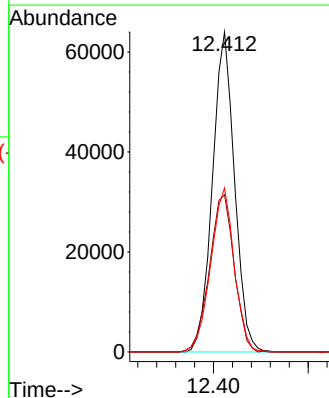
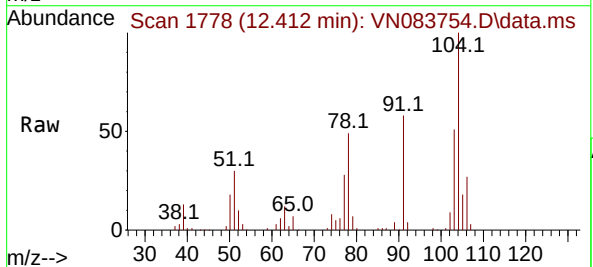
Manual Integrations
APPROVED

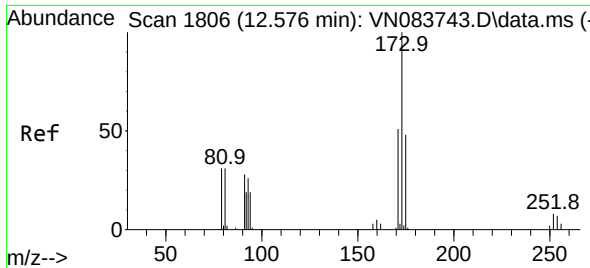
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#70
Styrene
Concen: 19.046 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

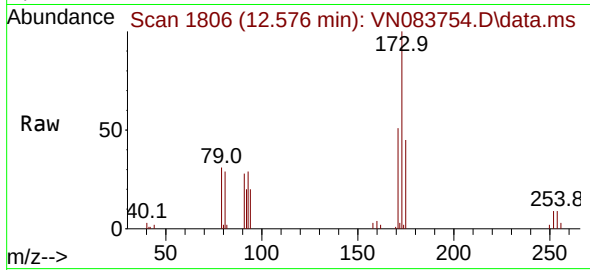
Tgt Ion:104 Resp: 103357
Ion Ratio Lower Upper
104 100
78 55.1 43.3 64.9
103 54.7 43.4 65.2





#71
Bromoform
Concen: 19.723 ug/l
RT: 12.576 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

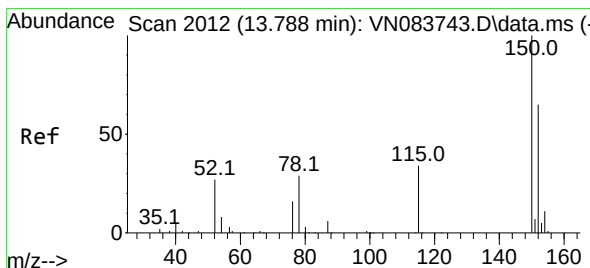
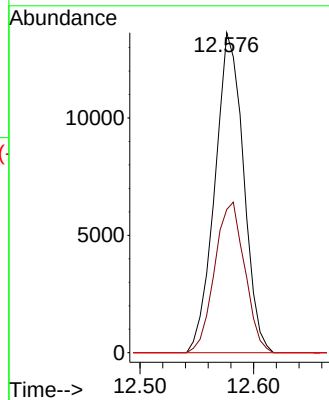
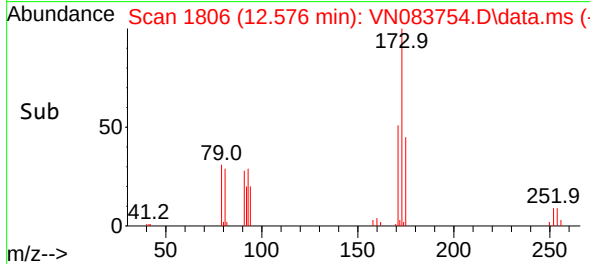
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



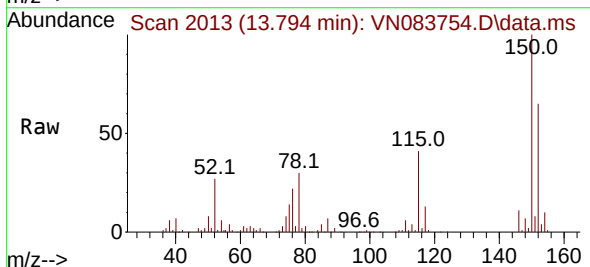
Tgt Ion:173 Resp: 2386
Ion Ratio Lower Upper
173 100
175 49.3 24.1 72.2
254 0.0 0.0 0.0

Manual Integrations
APPROVED

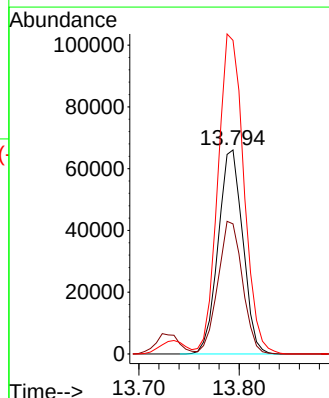
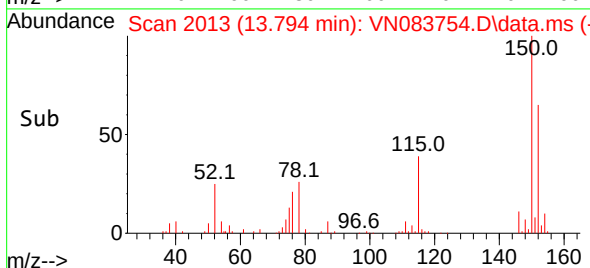
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

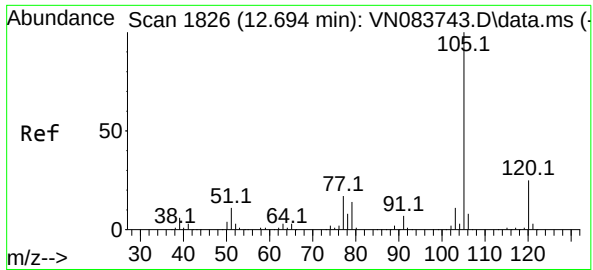


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07



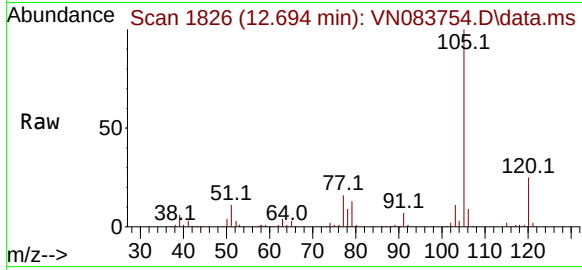
Tgt Ion:152 Resp: 112657
Ion Ratio Lower Upper
152 100
115 64.9 32.2 96.6
150 165.2 0.0 348.6





#73
Isopropylbenzene
Concen: 18.465 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

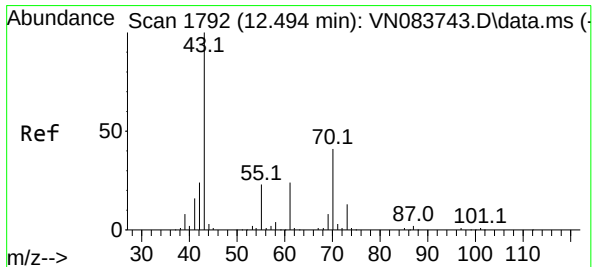
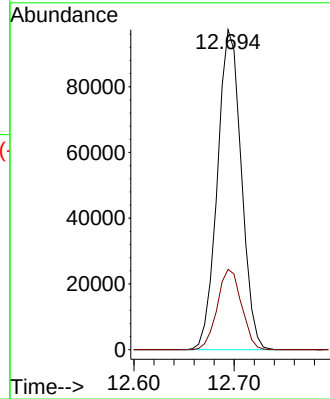
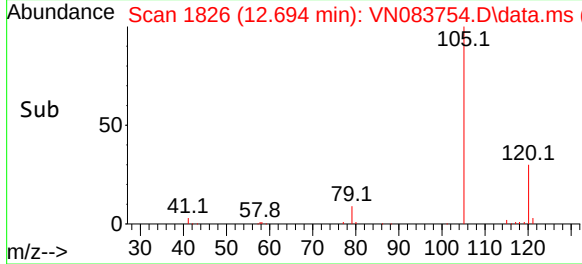
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



Tgt Ion:105 Resp: 160940
Ion Ratio Lower Upper
105 100
120 25.4 12.6 37.8

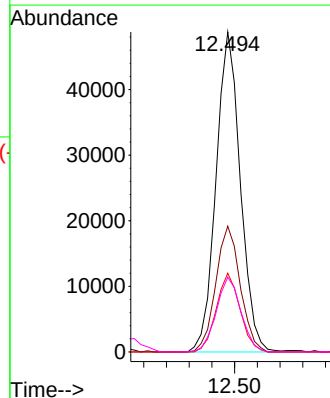
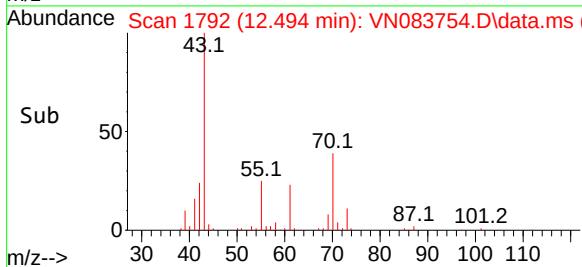
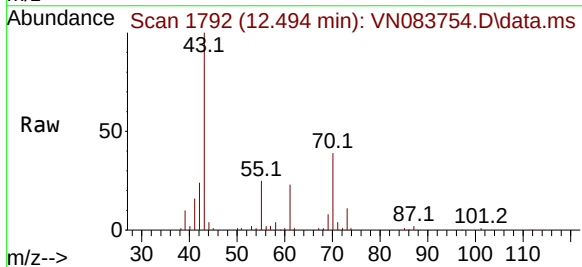
Manual Integrations
APPROVED

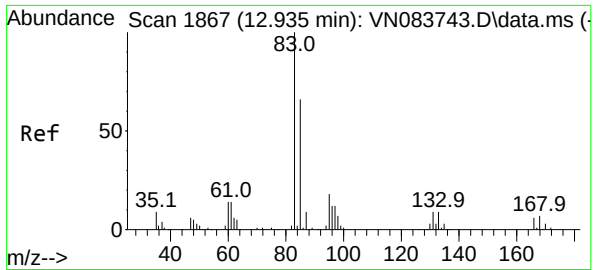
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#74
N-ethyl acetate
Concen: 19.490 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

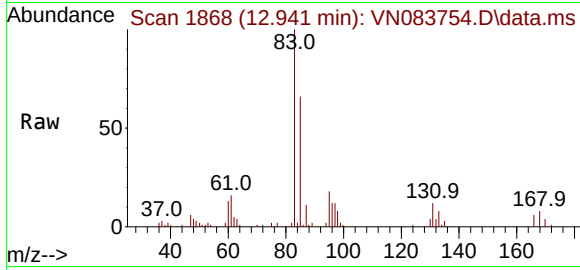
Tgt Ion: 43 Resp: 72476
Ion Ratio Lower Upper
43 100
70 39.6 34.5 51.7
55 24.0 18.6 28.0
61 23.7 19.2 28.8





#75
1,1,2,2-Tetrachloroethane
Concen: 19.489 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

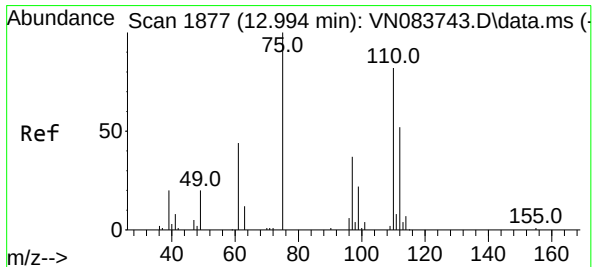
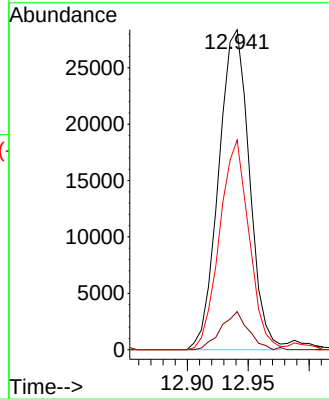
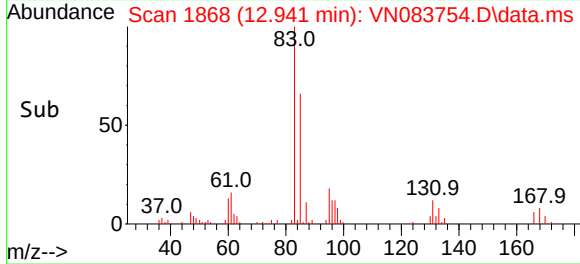
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



Tgt Ion: 83 Resp: 49910
Ion Ratio Lower Upper
83 100
131 10.7 5.2 15.6
85 62.7 31.9 95.9

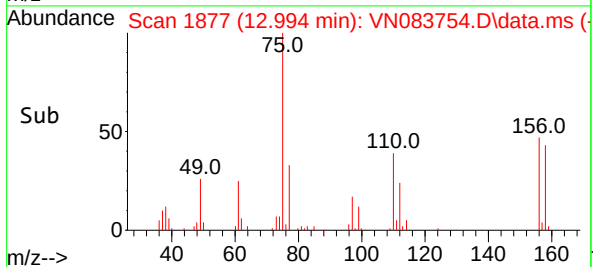
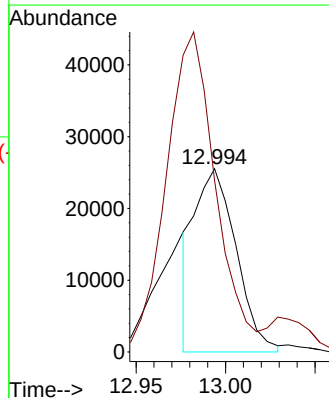
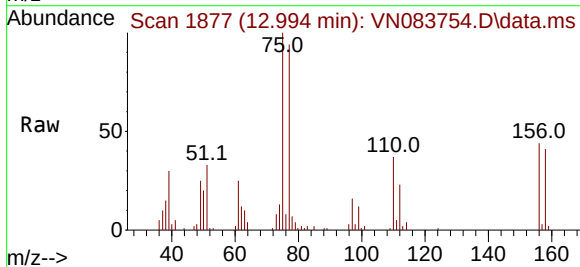
Manual Integrations
APPROVED

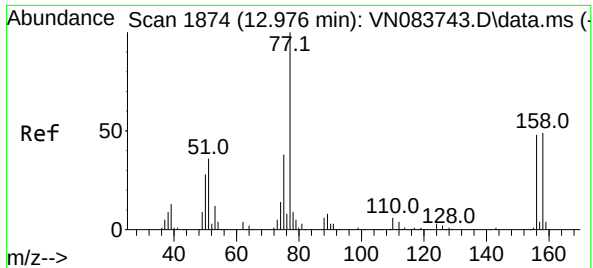
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#76
1,2,3-Trichloropropane
Concen: 18.547 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

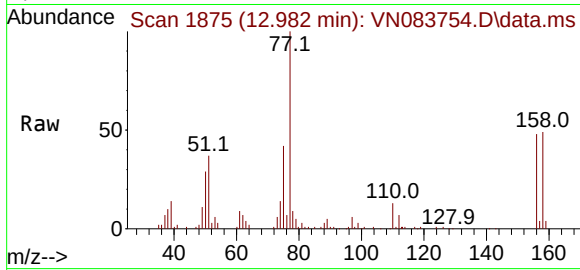
Tgt Ion: 75 Resp: 41121
Ion Ratio Lower Upper
75 100
77 208.7 95.2 285.6





#77
Bromobenzene
Concen: 17.807 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

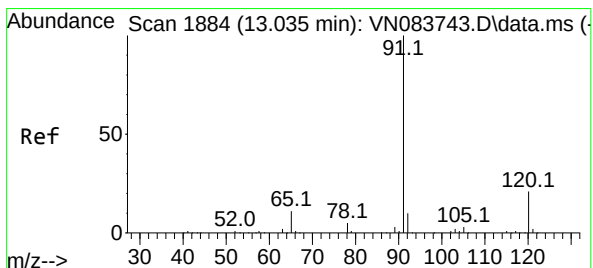
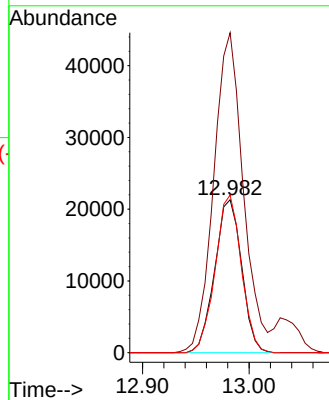
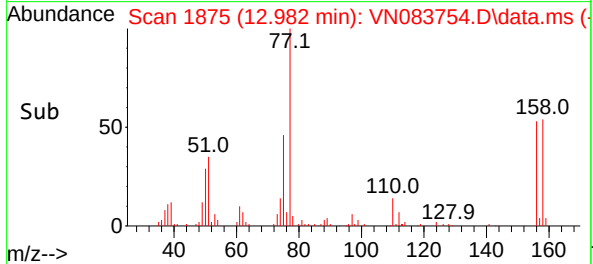
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



Tgt Ion:156 Resp: 37360
Ion Ratio Lower Upper
156 100
77 229.7 114.3 343.1
158 100.0 48.9 146.7

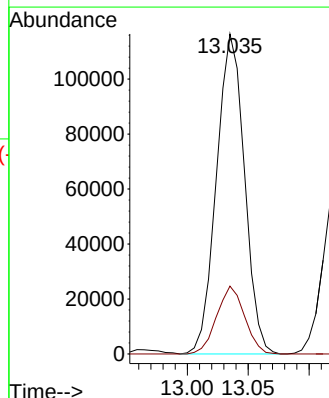
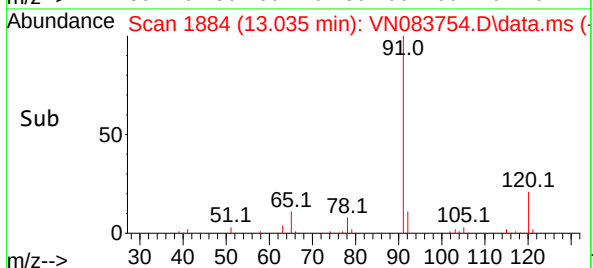
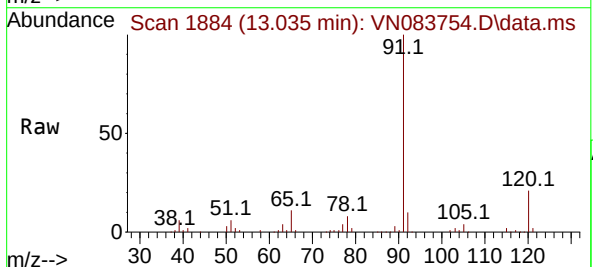
Manual Integrations
APPROVED

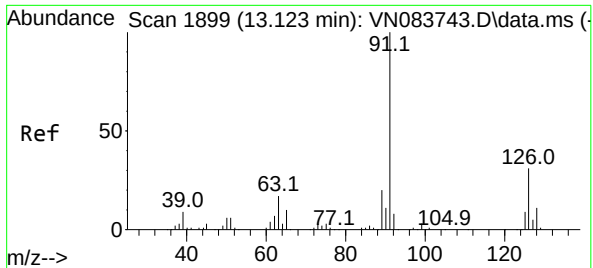
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#78
n-propylbenzene
Concen: 18.384 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 91 Resp: 186432
Ion Ratio Lower Upper
91 100
120 21.1 11.0 33.0





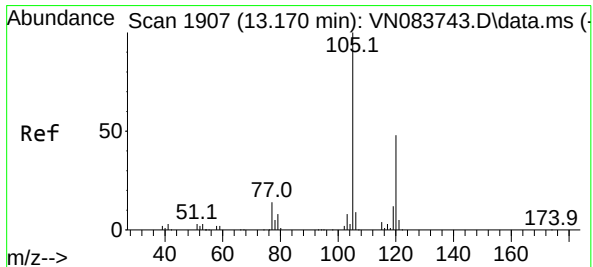
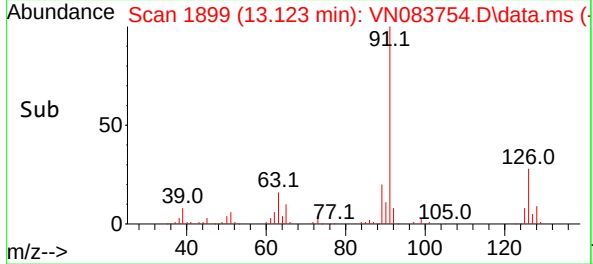
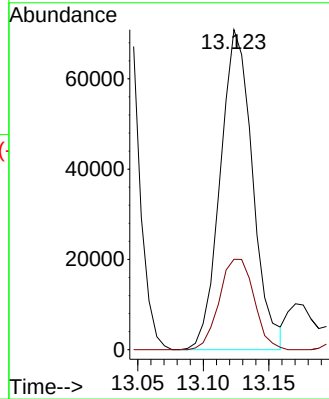
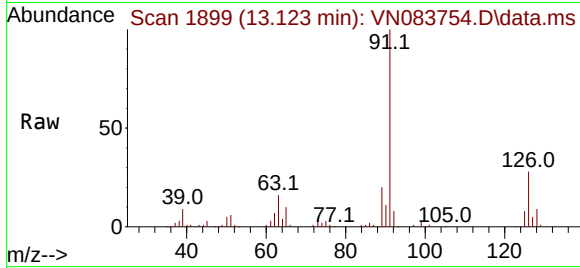
#79
2-Chlorotoluene
Concen: 18.833 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Tgt Ion: 91 Resp: 121802
Ion Ratio Lower Upper
91 100
126 30.3 15.4 46.2

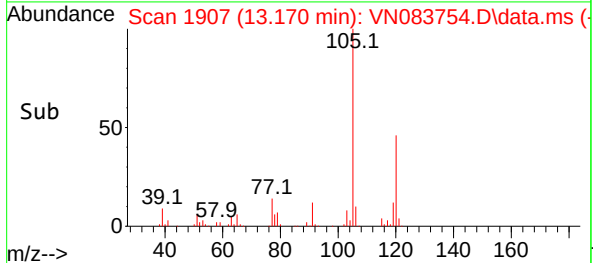
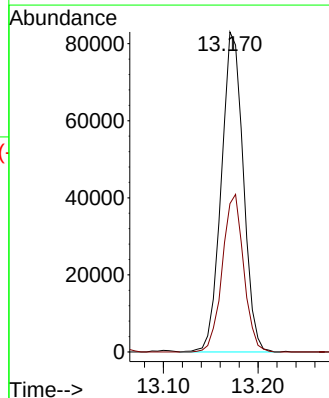
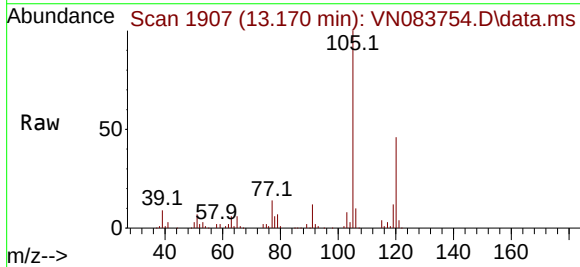
Manual Integrations
APPROVED

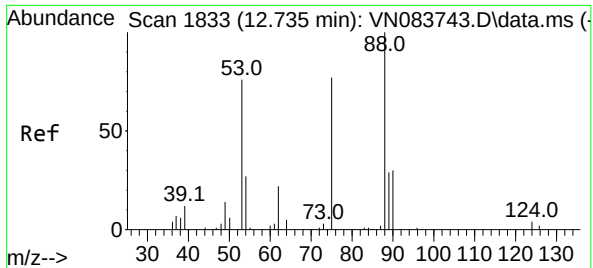
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#80
1,3,5-Trimethylbenzene
Concen: 18.221 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

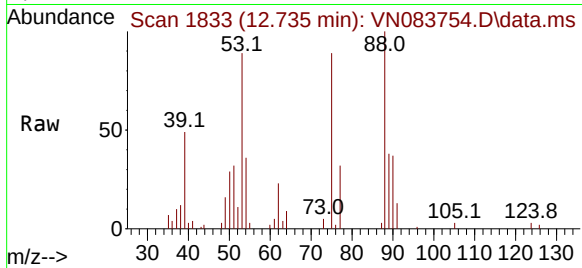
Tgt Ion:105 Resp: 133892
Ion Ratio Lower Upper
105 100
120 47.8 23.4 70.3





#81
trans-1,4-Dichloro-2-butene
Concen: 19.928 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

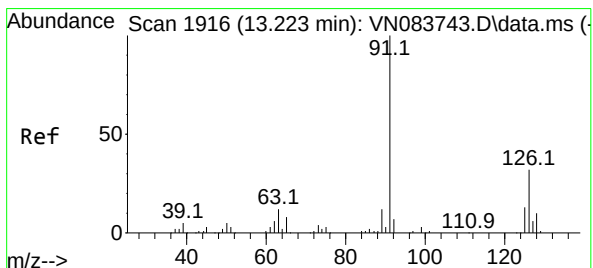
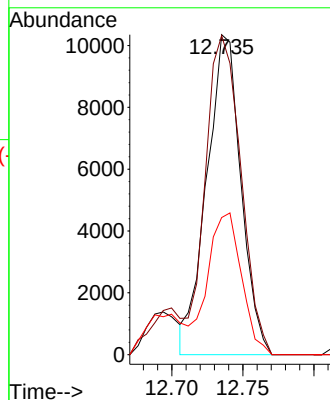
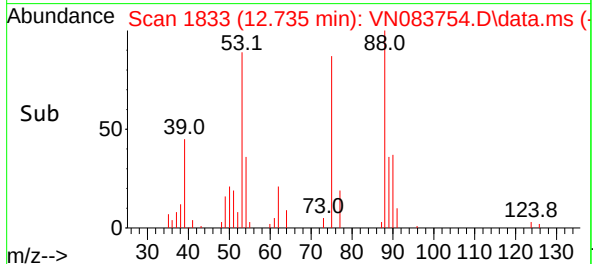
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



Tgt Ion: 75 Resp: 17290
Ion Ratio Lower Upper
75 100
53 104.8 81.2 121.8
89 43.8 35.7 53.5

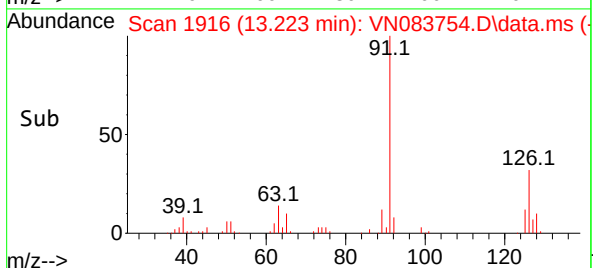
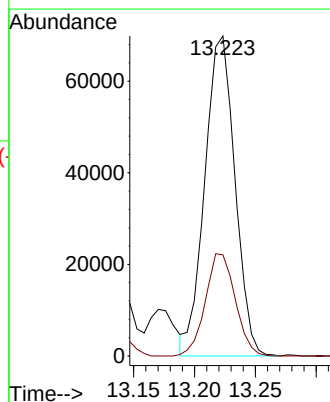
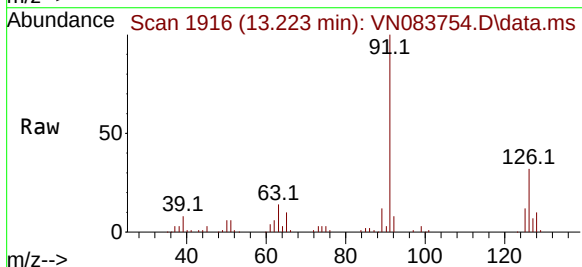
Manual Integrations
APPROVED

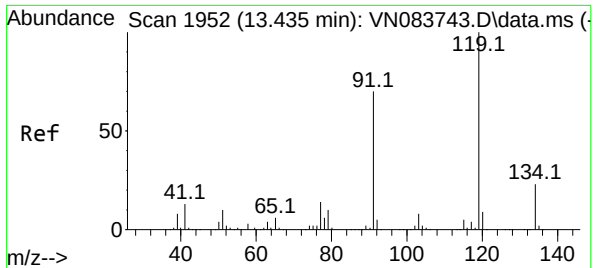
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#82
4-Chlorotoluene
Concen: 18.559 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

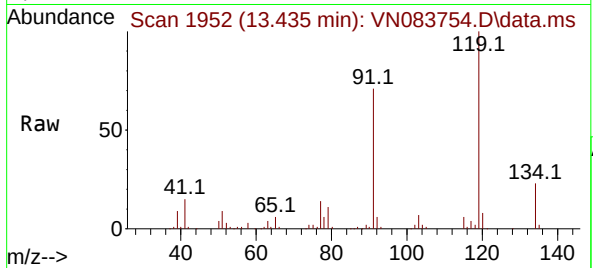
Tgt Ion: 91 Resp: 120449
Ion Ratio Lower Upper
91 100
126 31.7 15.4 46.2





#83
tert-Butylbenzene
Concen: 18.720 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

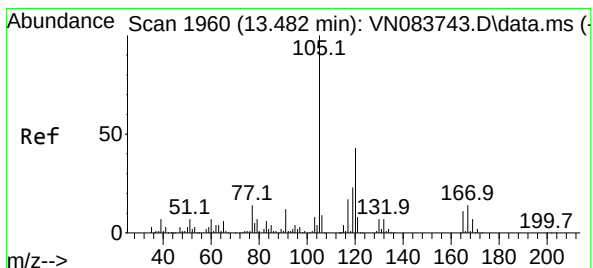
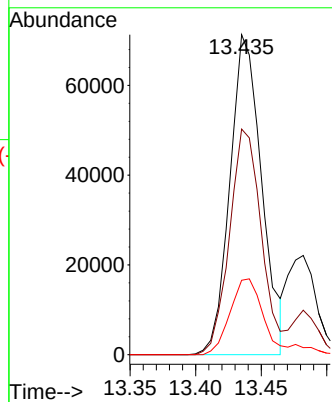
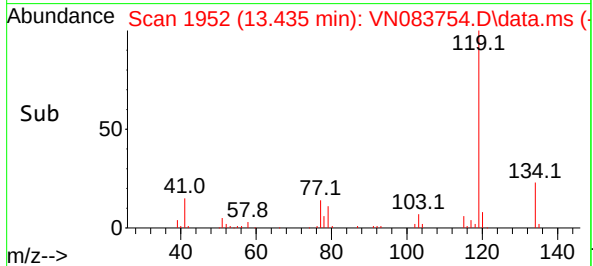
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



Tgt Ion:119 Resp: 120350
Ion Ratio Lower Upper
119 100
91 70.2 34.5 103.6
134 24.5 12.8 38.4

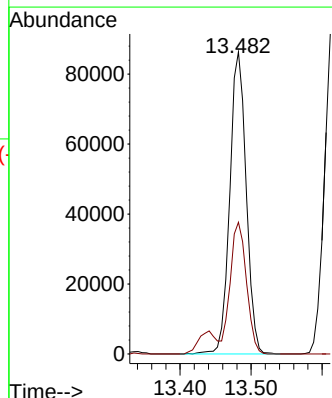
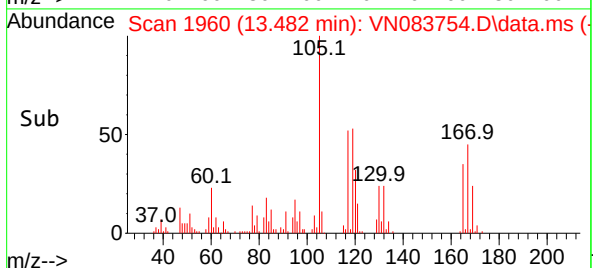
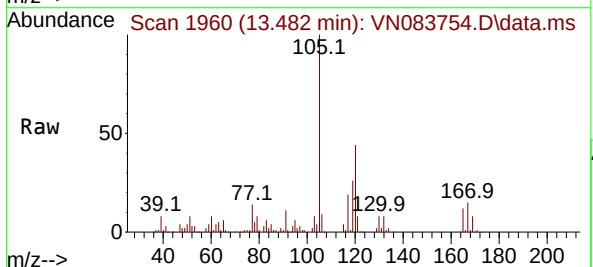
Manual Integrations
APPROVED

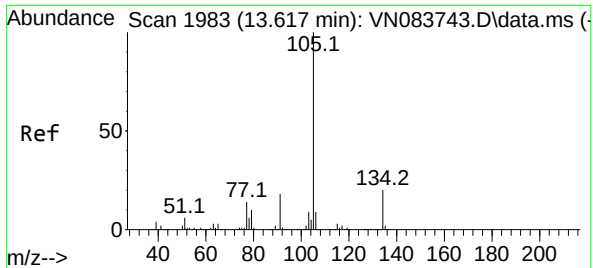
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#84
1,2,4-Trimethylbenzene
Concen: 18.766 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

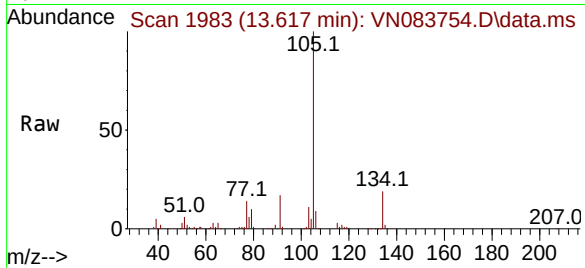
Tgt Ion:105 Resp: 138521
Ion Ratio Lower Upper
105 100
120 42.8 21.8 65.4





#85
sec-Butylbenzene
Concen: 18.628 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

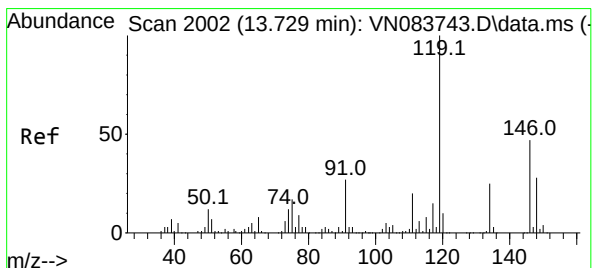
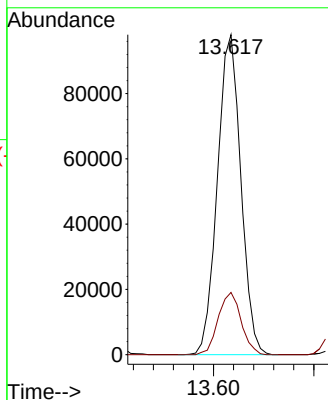
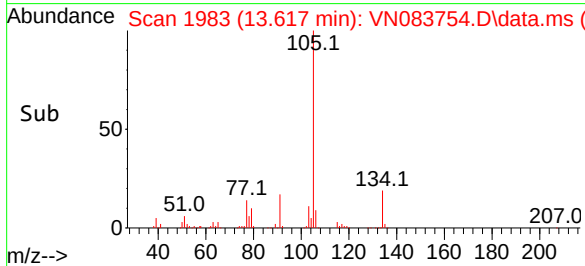
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



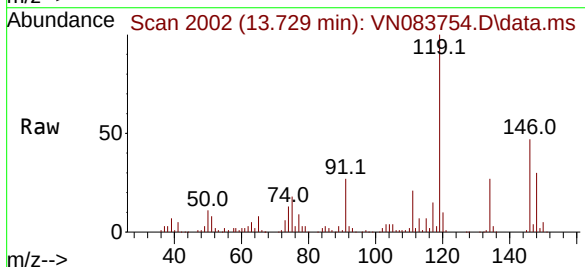
Tgt Ion:105 Resp: 158820
Ion Ratio Lower Upper
105 100
134 19.1 9.7 29.1

Manual Integrations
APPROVED

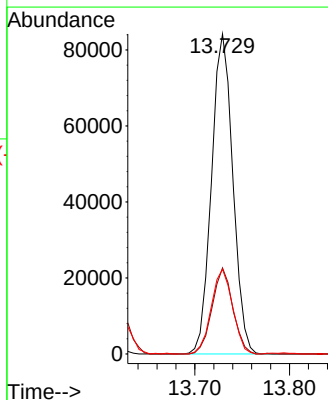
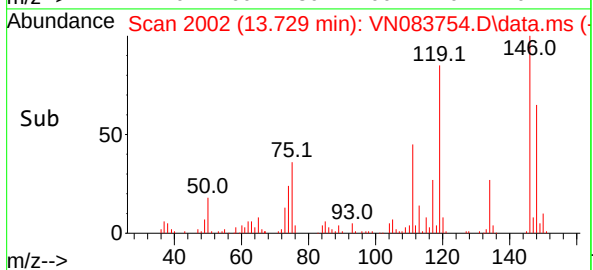
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

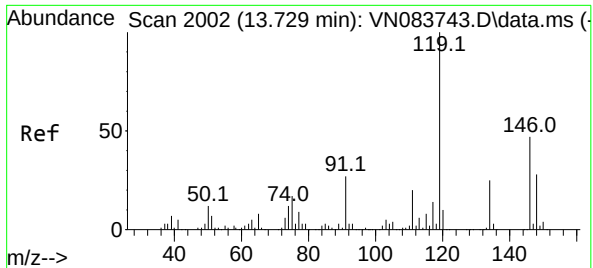


#86
p-Isopropyltoluene
Concen: 18.447 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07



Tgt Ion:119 Resp: 131843
Ion Ratio Lower Upper
119 100
134 26.0 12.8 38.3
91 26.4 12.9 38.7





#87

1,3-Dichlorobenzene

Concen: 18.097 ug/l

RT: 13.735 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBSD01

Tgt Ion:146 Resp: 71650

Ion Ratio Lower Upper

146 100

111 43.2 21.7 65.1

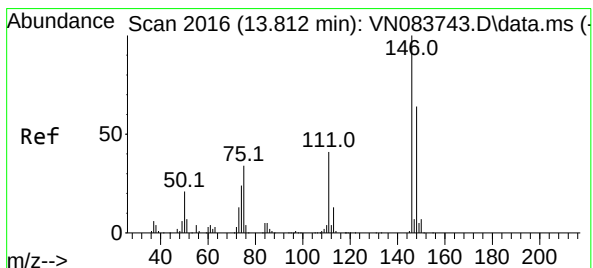
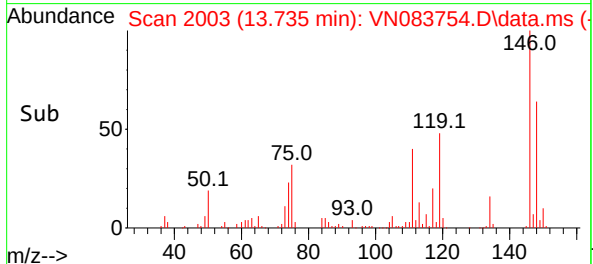
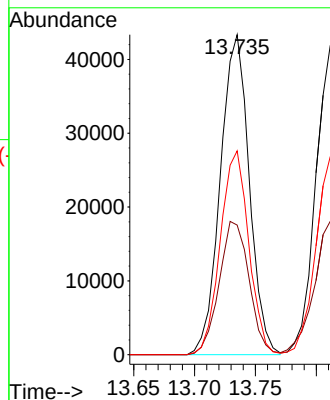
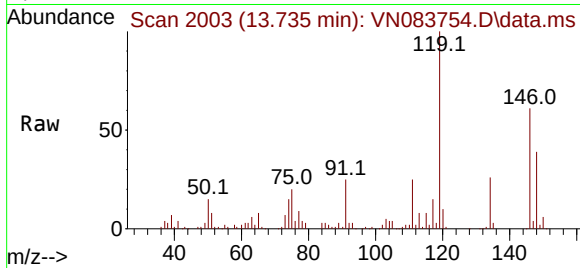
148 62.7 31.7 95.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#88

1,4-Dichlorobenzene

Concen: 17.570 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

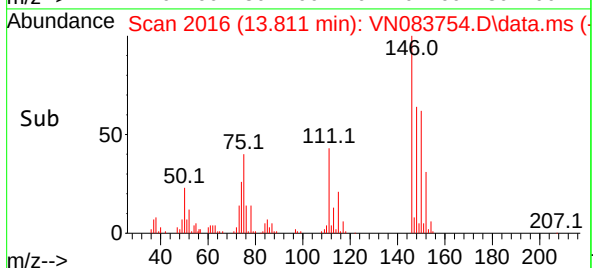
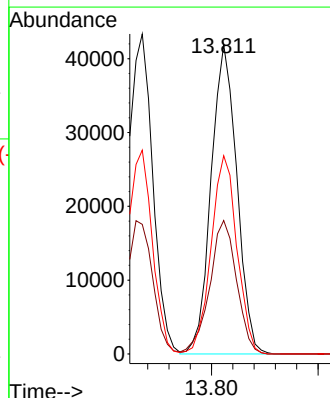
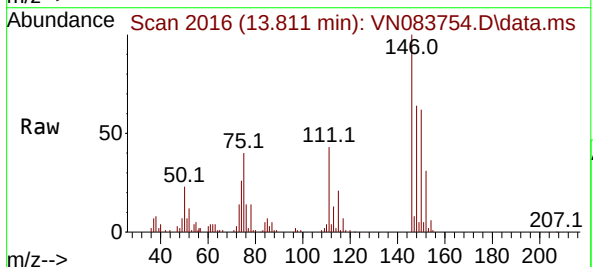
Tgt Ion:146 Resp: 70441

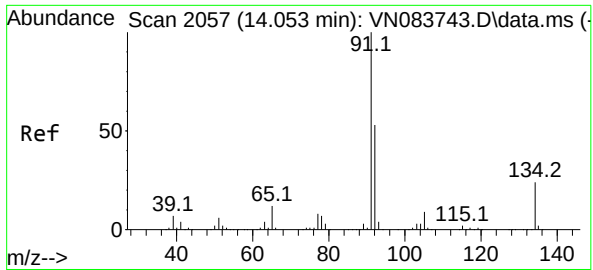
Ion Ratio Lower Upper

146 100

111 45.1 21.3 64.0

148 64.3 32.0 96.2





#89

n-Butylbenzene

Concen: 17.978 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBSD01

Tgt Ion: 91 Resp: 115369

Ion Ratio Lower Upper

91 100

92 52.6 26.7 80.1

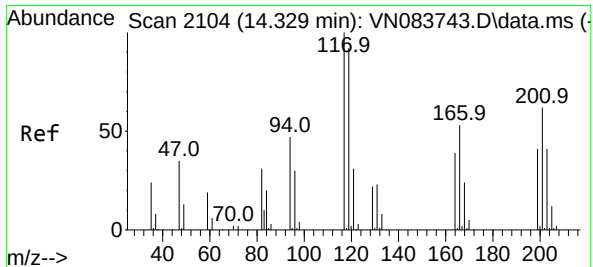
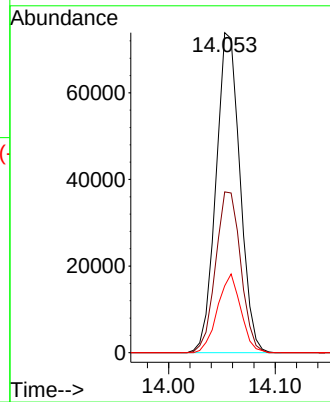
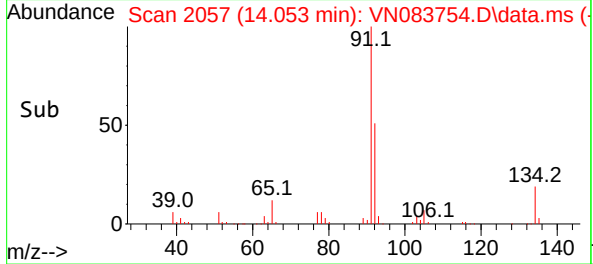
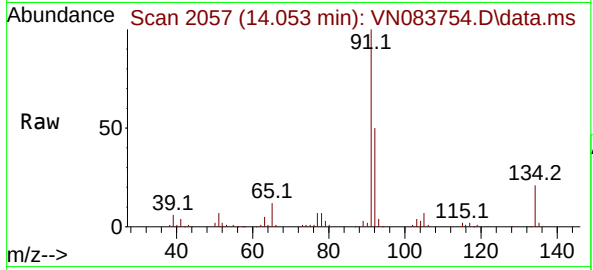
134 23.9 12.2 36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#90

Hexachloroethane

Concen: 18.136 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.000 min

Lab File: VN083754.D

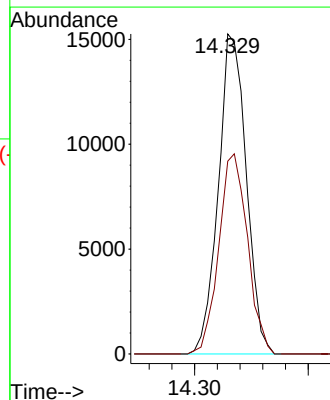
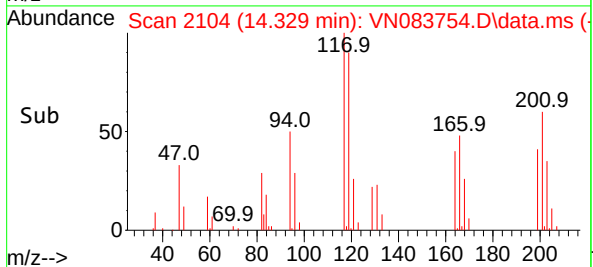
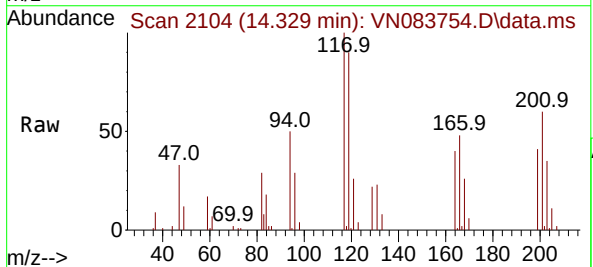
Acq: 10 Sep 2024 16:07

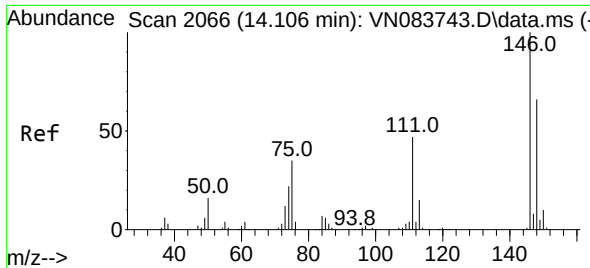
Tgt Ion:117 Resp: 26057

Ion Ratio Lower Upper

117 100

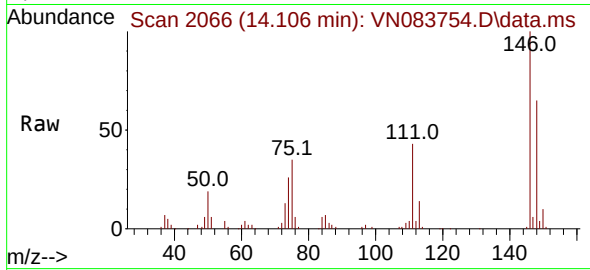
201 64.4 32.8 98.3





#91
1,2-Dichlorobenzene
Concen: 18.524 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

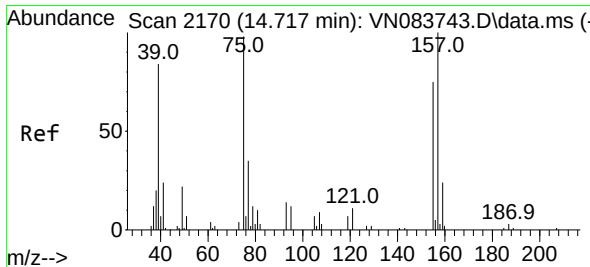
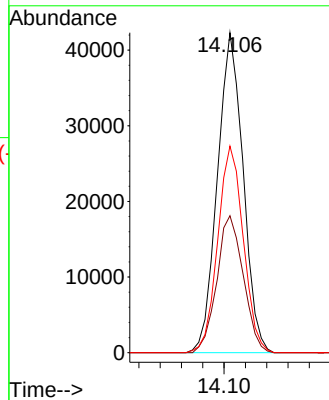
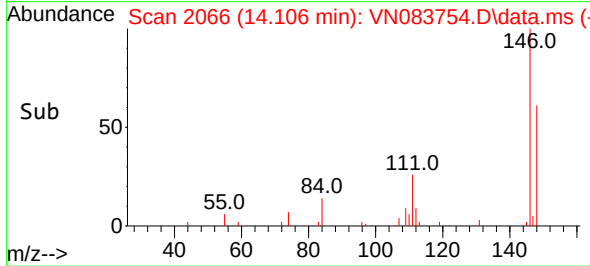
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



Tgt Ion:146 Resp: 70785
Ion Ratio Lower Upper
146 100
111 44.1 22.8 68.3
148 64.2 32.1 96.5

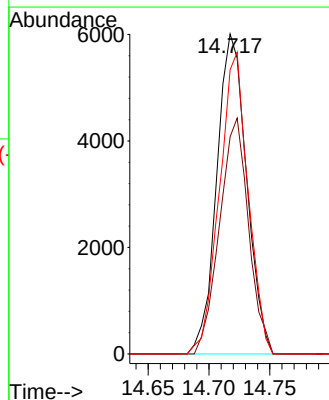
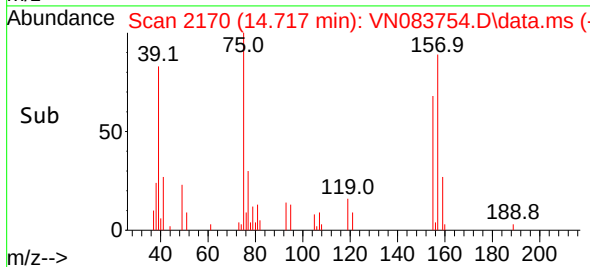
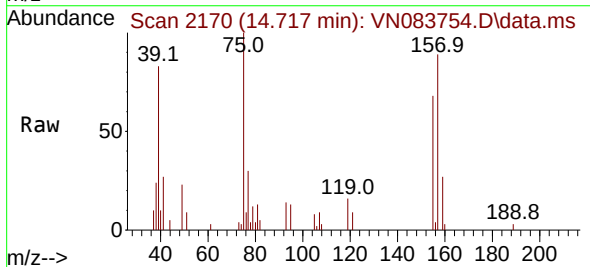
Manual Integrations
APPROVED

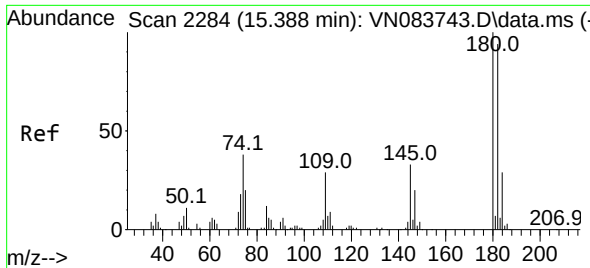
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.037 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

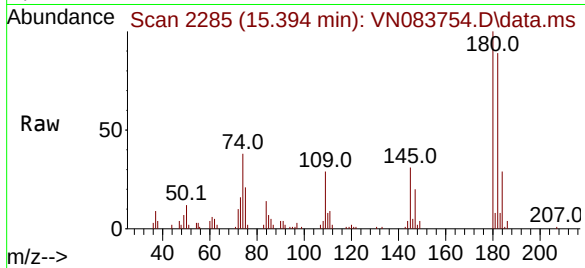
Tgt Ion: 75 Resp: 10229
Ion Ratio Lower Upper
75 100
155 71.8 35.9 107.7
157 90.6 47.5 142.5





#93
1,2,4-Trichlorobenzene
Concen: 17.401 ug/l
RT: 15.394 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

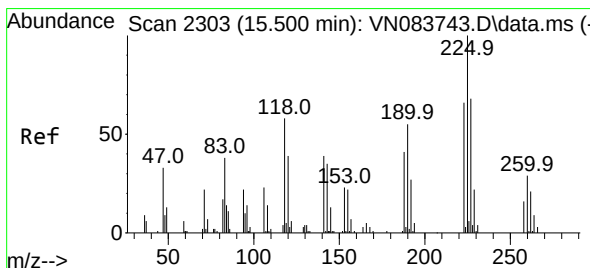
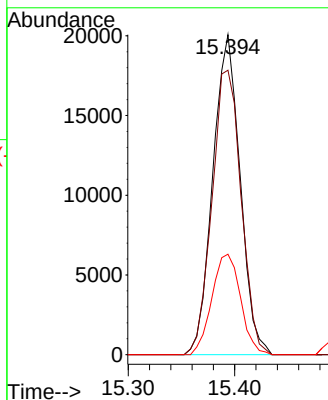
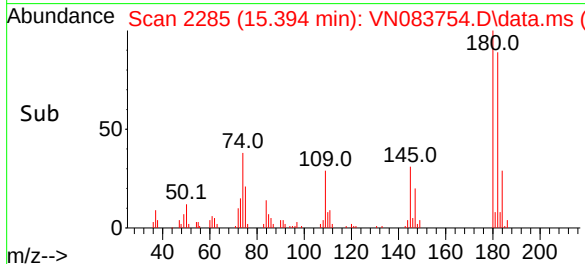
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01



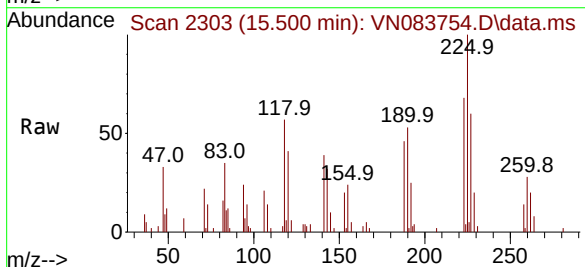
Tgt Ion:180 Resp: 3568
Ion Ratio Lower Upper
180 100
182 94.8 48.1 144.3
145 33.0 16.9 50.7

Manual Integrations
APPROVED

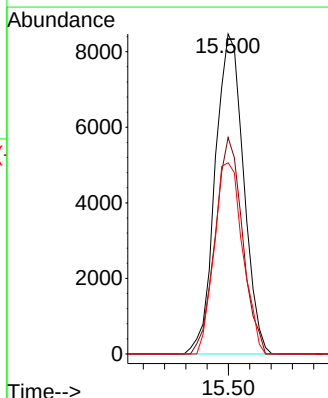
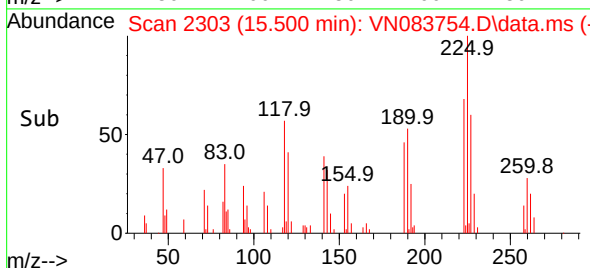
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

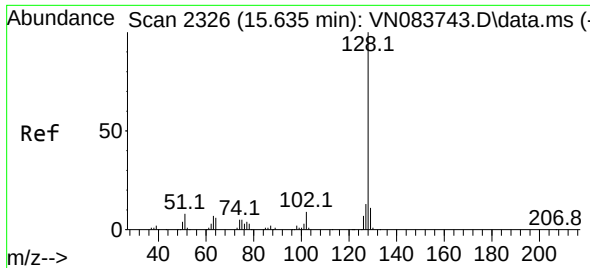


#94
Hexachlorobutadiene
Concen: 17.967 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07



Tgt Ion:225 Resp: 15646
Ion Ratio Lower Upper
225 100
223 65.0 31.9 95.5
227 60.1 32.0 96.2





#95

Naphthalene

Concen: 18.566 ug/l

RT: 15.641 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

VN0910WBSD01

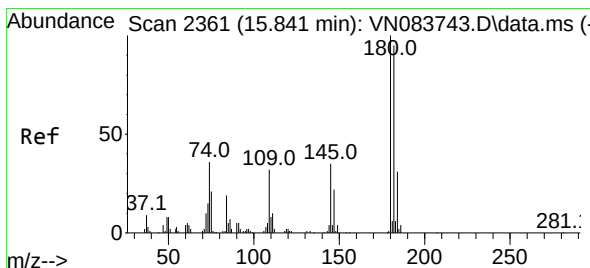
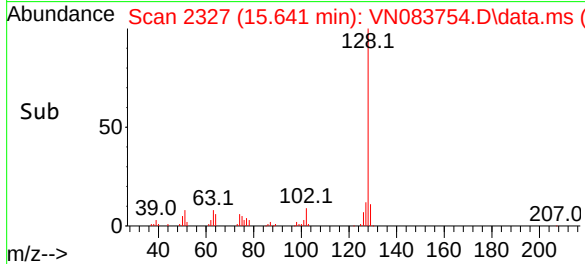
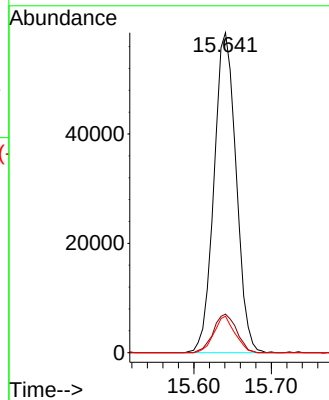
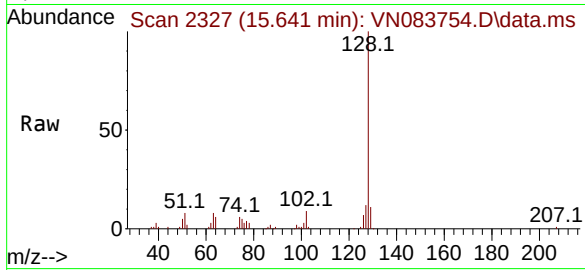
Tgt Ion:128	Resp:	115828
Ion Ratio	Lower	Upper
128	100	
127	12.8	10.2 15.2
129	10.8	8.7 13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/11/2024

Supervised By :Semsettin Yesilyurt 09/11/2024



#96

1,2,3-Trichlorobenzene

Concen: 17.203 ug/l

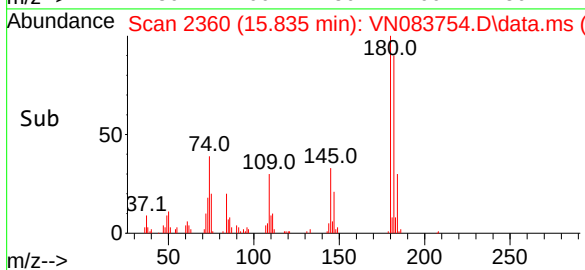
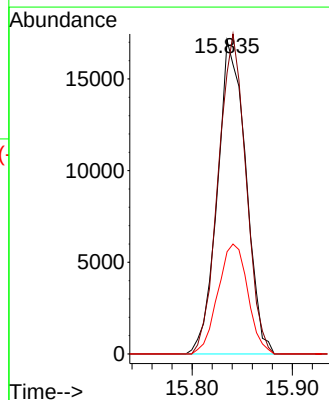
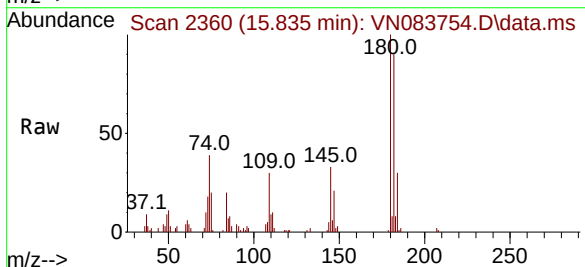
RT: 15.835 min Scan# 2360

Delta R.T. -0.006 min

Lab File: VN083754.D

Acq: 10 Sep 2024 16:07

Tgt Ion:180	Resp:	33713
Ion Ratio	Lower	Upper
180	100	
182	99.0	47.1 141.4
145	36.8	17.8 53.5



Manual Integration Report

Sequence:	VN091024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN083742.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:52:33 AM	SAM	9/11/2024 7:07:21 PM	Peak Integrated by Software
VSTDICCC050	VN083743.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:52:37 AM	SAM	9/11/2024 7:07:34 PM	Peak Integrated by Software
VSTDICC010	VN083745.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:52:46 AM	SAM	9/11/2024 7:07:38 PM	Peak Integrated by Software
VSTDICC005	VN083746.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:52:50 AM	SAM	9/11/2024 7:07:40 PM	Peak Integrated by Software
VSTDICC005	VN083746.D	Tert butyl alcohol	JOHN	9/11/2024 9:52:50 AM	SAM	9/11/2024 7:07:40 PM	Peak Integrated by Software
VSTDICC001	VN083747.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:52:55 AM	SAM	9/11/2024 7:07:43 PM	Peak Integrated by Software
VSTDICC001	VN083747.D	1,4-Dichlorobenzene	JOHN	9/11/2024 9:52:55 AM	SAM	9/11/2024 7:07:43 PM	Peak Integrated by Software
VSTDICC001	VN083747.D	Chloroethane	JOHN	9/11/2024 9:52:55 AM	SAM	9/11/2024 7:07:43 PM	Peak Integrated by Software
VSTDICC001	VN083747.D	Chloromethane	JOHN	9/11/2024 9:52:55 AM	SAM	9/11/2024 7:07:43 PM	Peak Integrated by Software
VSTDICC001	VN083747.D	Methacrylonitrile	JOHN	9/11/2024 9:52:55 AM	SAM	9/11/2024 7:07:43 PM	Peak Integrated by Software
VSTDICC001	VN083747.D	Methyl Acetate	JOHN	9/11/2024 9:52:55 AM	SAM	9/11/2024 7:07:43 PM	Peak Integrated by Software
VSTDICC020	VN083749.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:52:59 AM	SAM	9/11/2024 7:07:45 PM	Peak Integrated by Software
VSTDICV050	VN083750.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:53:03 AM	SAM	9/11/2024 7:07:47 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN091024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VN0910WBS01	VN083753.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:53:08 AM	SAM	9/11/2024 7:07:49 PM	Peak Integrated by Software
VN0910WBSD01	VN083754.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:53:12 AM	SAM	9/11/2024 7:07:51 PM	Peak Integrated by Software
VSTDCCC050	VN083763.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:53:30 AM	SAM	9/11/2024 7:07:56 PM	Peak Integrated by Software
VSTDCCC050	VN083765.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:53:35 AM	SAM	9/11/2024 7:07:58 PM	Peak Integrated by Software
VSTDCCC050	VN083789.D	1,2,3-Trichloropropane	JOHN	9/11/2024 4:17:34 PM	SAM	9/11/2024 7:08:27 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vn091124

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN083791.D	1,2,3-Trichloropropane	JOHN	9/12/2024 9:39:10 AM	MMDadoda	9/12/2024 4:33:13 PM	Peak Integrated by Software
VN0911WBS01	VN083799.D	1,2,3-Trichloropropane	JOHN	9/12/2024 9:39:15 AM	MMDadoda	9/12/2024 4:33:14 PM	Peak Integrated by Software
VSTDCCC050	VN083817.D	1,2,3-Trichloropropane	JOHN	9/12/2024 9:40:16 AM	MMDadoda	9/12/2024 4:33:28 PM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN091024

Review By	John Carlone	Review On	9/11/2024 4:18:14 PM
Supervise By	Semsettin Yesilyurt	Supervise On	9/11/2024 7:08:33 PM
SubDirectory	VN091024	HP Acquire Method	HP Processing Method 82N091024W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP130211,VP130225		
Initial Calibration Stds	VP130230,VP130231,VP130232,VP130233,VP130234,VP130235		
CCC	VP130212,VP130213,VP130226		
Internal Standard/PEM			
ICV/I.BLK	VP130236		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN083741.D	10 Sep 2024 08:02	JC\MD	Ok
2	VSTDICC100	VN083742.D	10 Sep 2024 09:08	JC\MD	Ok,M
3	VSTDICCC050	VN083743.D	10 Sep 2024 09:32	JC\MD	Ok,M
4	VSTDICC020	VN083744.D	10 Sep 2024 09:56	JC\MD	Not Ok
5	VSTDICC010	VN083745.D	10 Sep 2024 10:20	JC\MD	Ok,M
6	VSTDICC005	VN083746.D	10 Sep 2024 10:44	JC\MD	Ok,M
7	VSTDICC001	VN083747.D	10 Sep 2024 11:32	JC\MD	Ok,M
8	IBLK	VN083748.D	10 Sep 2024 11:56	JC\MD	Ok
9	VSTDICC020	VN083749.D	10 Sep 2024 12:43	JC\MD	Ok,M
10	VSTDICV050	VN083750.D	10 Sep 2024 13:36	JC\MD	Ok,M
11	VN0910MBL01	VN083751.D	10 Sep 2024 14:10	JC\MD	Ok
12	VN0910WBL01	VN083752.D	10 Sep 2024 14:34	JC\MD	Ok
13	VN0910WBS01	VN083753.D	10 Sep 2024 15:34	JC\MD	Ok,M
14	VN0910WBSD01	VN083754.D	10 Sep 2024 16:07	JC\MD	Ok,M
15	P3845-01	VN083755.D	10 Sep 2024 16:31	JC\MD	Dilution
16	IBLK	VN083756.D	10 Sep 2024 16:55	JC\MD	Ok
17	P3841-02DL	VN083757.D	10 Sep 2024 17:20	JC\MD	Ok
18	P3841-03DL	VN083758.D	10 Sep 2024 17:44	JC\MD	Ok
19	P3868-01	VN083759.D	10 Sep 2024 18:08	JC\MD	Ok
20	P3868-02	VN083760.D	10 Sep 2024 18:32	JC\MD	Ok
21	P3907-02	VN083761.D	10 Sep 2024 18:56	JC\MD	Ok,M

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN091024

Review By	John Carlone	Review On	9/11/2024 4:18:14 PM
Supervise By	Semsettin Yesilyurt	Supervise On	9/11/2024 7:08:33 PM
SubDirectory	VN091024	HP Acquire Method	HP Processing Method 82N091024W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP130211,VP130225		
Initial Calibration Stds	VP130230,VP130231,VP130232,VP130233,VP130234,VP130235		
CCC	VP130212,VP130213,VP130226		
Internal Standard/PEM			
ICV/I.BLK	VP130236		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	P3907-08	VN083762.D	10 Sep 2024 19:20	JC\MD	Ok,M
23	VSTDCCC050	VN083763.D	10 Sep 2024 19:44	JC\MD	Ok,M
24	BFB	VN083764.D	11 Sep 2024 02:03	JC\MD	Ok
25	VSTDCCC050	VN083765.D	11 Sep 2024 02:27	JC\MD	Ok,M
26	VN0910MBL02	VN083766.D	11 Sep 2024 02:51	JC\MD	Ok
27	VN0910WBL02	VN083767.D	11 Sep 2024 03:15	JC\MD	Ok
28	VN0910WBS02	VN083768.D	11 Sep 2024 03:39	JC\MD	Ok,M
29	VN0910WBSD02	VN083769.D	11 Sep 2024 04:03	JC\MD	Ok,M
30	PB163204TB	VN083770.D	11 Sep 2024 04:27	JC\MD	Ok,M
31	PB163204ZHE#01	VN083771.D	11 Sep 2024 04:50	JC\MD	Ok,M
32	PB163204ZHE#02	VN083772.D	11 Sep 2024 05:14	JC\MD	Ok,M
33	PB163204ZHE#03	VN083773.D	11 Sep 2024 05:38	JC\MD	Ok,M
34	PB163204ZHE#04	VN083774.D	11 Sep 2024 06:02	JC\MD	Ok,M
35	PB163204ZHE#05	VN083775.D	11 Sep 2024 06:26	JC\MD	Ok,M
36	PB163204ZHE#06	VN083776.D	11 Sep 2024 06:50	JC\MD	Ok
37	PB163204ZHE#07	VN083777.D	11 Sep 2024 07:14	JC\MD	Ok,M
38	PB163204ZHE#08	VN083778.D	11 Sep 2024 07:38	JC\MD	Ok,M
39	PB163204ZHE#09	VN083779.D	11 Sep 2024 08:02	JC\MD	Ok,M
40	PB163204ZHE#10	VN083780.D	11 Sep 2024 08:26	JC\MD	Ok,M
41	PB163204ZHE#11	VN083781.D	11 Sep 2024 08:50	JC\MD	Ok,M
42	PB163204ZHE#12	VN083782.D	11 Sep 2024 09:14	JC\MD	Ok
43	P3872-01	VN083783.D	11 Sep 2024 09:38	JC\MD	Ok
44	P3892-02	VN083784.D	11 Sep 2024 10:02	JC\MD	Ok,M

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # VN091024

Review By	John Carlone	Review On	9/11/2024 4:18:14 PM
Supervise By	Semsettin Yesilyurt	Supervise On	9/11/2024 7:08:33 PM
SubDirectory	VN091024	HP Acquire Method	HP Processing Method 82N091024W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP130211,VP130225		
Initial Calibration Stds	VP130230,VP130231,VP130232,VP130233,VP130234,VP130235		
CCC	VP130212,VP130213,VP130226		
Internal Standard/PEM			
ICV/I.BLK	VP130236		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

45	P3906-02	VN083785.D	11 Sep 2024 10:26	JC\MD	Ok
46	P3906-08	VN083786.D	11 Sep 2024 10:50	JC\MD	Ok
47	P3906-14	VN083787.D	11 Sep 2024 11:14	JC\MD	Ok
48	P3891-02	VN083788.D	11 Sep 2024 11:38	JC\MD	ReRun
49	VSTDCCC050	VN083789.D	11 Sep 2024 12:02	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # VN091124

Review By	John Carlone	Review On	9/12/2024 9:49:59 AM
Supervise By	Maresh Dadoda	Supervise On	9/12/2024 4:33:31 PM
SubDirectory	VN091124	HP Acquire Method	HP Processing Method 82N091024W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP130256		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP130257,VP130258		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN083790.D	11 Sep 2024 12:25	JC\MD	Ok
2	VSTDCCC050	VN083791.D	11 Sep 2024 12:59	JC\MD	Ok,M
3	VN0911MBL01	VN083792.D	11 Sep 2024 13:33	JC\MD	Ok
4	VN0911WBL01	VN083793.D	11 Sep 2024 13:57	JC\MD	Ok
5	P3839-02	VN083794.D	11 Sep 2024 14:21	JC\MD	ReRun
6	P3839-01	VN083795.D	11 Sep 2024 14:45	JC\MD	Ok
7	IBLK	VN083796.D	11 Sep 2024 15:09	JC\MD	Ok
8	P3845-01DL	VN083797.D	11 Sep 2024 15:33	JC\MD	Ok
9	IBLK	VN083798.D	11 Sep 2024 16:21	JC\MD	Ok
10	VN0911WBS01	VN083799.D	11 Sep 2024 16:45	JC\MD	Ok,M
11	VN0911WBSD01	VN083800.D	11 Sep 2024 17:09	JC\MD	Ok,M
12	P3839-02	VN083801.D	11 Sep 2024 17:33	JC\MD	Ok,M
13	P3891-02	VN083802.D	11 Sep 2024 17:57	JC\MD	Ok,M
14	P3913-04	VN083803.D	11 Sep 2024 18:21	JC\MD	Not Ok
15	P3913-06	VN083804.D	11 Sep 2024 18:45	JC\MD	Not Ok
16	P3913-08	VN083805.D	11 Sep 2024 19:09	JC\MD	Not Ok
17	P3913-10	VN083806.D	11 Sep 2024 19:33	JC\MD	Not Ok
18	PB163246TB	VN083807.D	11 Sep 2024 19:57	JC\MD	Ok,M
19	P3911-02	VN083808.D	11 Sep 2024 20:21	JC\MD	Ok,M
20	P3911-04	VN083809.D	11 Sep 2024 20:45	JC\MD	Ok,M
21	P3911-06	VN083810.D	11 Sep 2024 21:09	JC\MD	Ok,M

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # VN091124

Review By	John Carlone	Review On	9/12/2024 9:49:59 AM
Supervise By	Mahesh Dadoda	Supervise On	9/12/2024 4:33:31 PM
SubDirectory	VN091124	HP Acquire Method	HP Processing Method 82N091024W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP130256		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP130257,VP130258		

22	P3905-06	VN083811.D	11 Sep 2024 21:33	JC\MD	ReRun
23	P3912-01	VN083812.D	11 Sep 2024 21:57	JC\MD	Ok
24	P3913-05	VN083813.D	11 Sep 2024 22:21	JC\MD	Ok
25	P3913-07	VN083814.D	11 Sep 2024 22:45	JC\MD	Ok
26	P3913-09	VN083815.D	11 Sep 2024 23:09	JC\MD	Ok
27	P3913-11	VN083816.D	11 Sep 2024 23:33	JC\MD	Ok
28	VSTDCCC050	VN083817.D	11 Sep 2024 23:56	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN091024

Review By	John Carlone	Review On	9/11/2024 4:18:14 PM
Supervise By	Semsettin Yesilyurt	Supervise On	9/11/2024 7:08:33 PM
SubDirectory	VN091024	HP Acquire Method	HP Processing Method 82N091024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130211,VP130225
Initial Calibration Stds	VP130230,VP130231,VP130232,VP130233,VP130234,VP130235
CCC	VP130212,VP130213,VP130226
Internal Standard/PEM	
ICV/I.BLK	VP130236
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN083741.D	10 Sep 2024 08:02		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN083742.D	10 Sep 2024 09:08	Good for DOD & Non DOD	JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN083743.D	10 Sep 2024 09:32	LR- 3, 18	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN083744.D	10 Sep 2024 09:56	Not used	JC\MD	Not Ok
5	VSTDICC010	VSTDICC010	VN083745.D	10 Sep 2024 10:20		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN083746.D	10 Sep 2024 10:44		JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN083747.D	10 Sep 2024 11:32		JC\MD	Ok,M
8	IBLK	IBLK	VN083748.D	10 Sep 2024 11:56		JC\MD	Ok
9	VSTDICC020	VSTDICC020	VN083749.D	10 Sep 2024 12:43		JC\MD	Ok,M
10	VSTDICV050	ICVVN091024	VN083750.D	10 Sep 2024 13:36		JC\MD	Ok,M
11	VN0910MBL01	VN0910MBL01	VN083751.D	10 Sep 2024 14:10		JC\MD	Ok
12	VN0910WBL01	VN0910WBL01	VN083752.D	10 Sep 2024 14:34		JC\MD	Ok
13	VN0910WBS01	VN0910WBS01	VN083753.D	10 Sep 2024 15:34	BS low	JC\MD	Ok,M
14	VN0910WBSD01	VN0910WBSD01	VN083754.D	10 Sep 2024 16:07		JC\MD	Ok,M
15	P3845-01	PT-VOA-WP	VN083755.D	10 Sep 2024 16:31	BS low, Need 4X	JC\MD	Dilution
16	IBLK	IBLK	VN083756.D	10 Sep 2024 16:55		JC\MD	Ok
17	P3841-02DL	OW-07B-65.5-090424D	VN083757.D	10 Sep 2024 17:20	vial B pH<2	JC\MD	Ok
18	P3841-03DL	MW-11B-37.5-090424D	VN083758.D	10 Sep 2024 17:44	vial B pH<2	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN091024

Review By	John Carlone	Review On	9/11/2024 4:18:14 PM
Supervise By	Semsettin Yesilyurt	Supervise On	9/11/2024 7:08:33 PM
SubDirectory	VN091024	HP Acquire Method	HP Processing Method 82N091024W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP130211,VP130225		
Initial Calibration Stds	VP130230,VP130231,VP130232,VP130233,VP130234,VP130235		
CCC	VP130212,VP130213,VP130226		
Internal Standard/PEM			
ICV/I.BLK	VP130236		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	P3868-01	OWBR-06-219-090524	VN083759.D	10 Sep 2024 18:08	vial B pH<2	JC\MD	Ok
20	P3868-02	OWBR-01-170-090524	VN083760.D	10 Sep 2024 18:32	vial B pH<2	JC\MD	Ok
21	P3907-02	PL-701-COMP-54	VN083761.D	10 Sep 2024 18:56	vial A pH#5.0	JC\MD	Ok,M
22	P3907-08	PL-701-COMP-55	VN083762.D	10 Sep 2024 19:20	vial A pH#5.0	JC\MD	Ok,M
23	VSTDCCC050	VSTDCCC050EC	VN083763.D	10 Sep 2024 19:44		JC\MD	Ok,M
24	BFB	BFB	VN083764.D	11 Sep 2024 02:03		JC\MD	Ok
25	VSTDCCC050	VSTDCCC050	VN083765.D	11 Sep 2024 02:27		JC\MD	Ok,M
26	VN0910MBL02	VN0910WBL03	VN083766.D	11 Sep 2024 02:51		JC\MD	Ok
27	VN0910WBL02	VN0910WBL04	VN083767.D	11 Sep 2024 03:15		JC\MD	Ok
28	VN0910WBS02	VN0910WBS02	VN083768.D	11 Sep 2024 03:39		JC\MD	Ok,M
29	VN0910WBSD02	VN0910WBSD02	VN083769.D	11 Sep 2024 04:03		JC\MD	Ok,M
30	PB163204TB	PB163204TB	VN083770.D	11 Sep 2024 04:27		JC\MD	Ok,M
31	PB163204ZHE#01	PB163204ZHE#01	VN083771.D	11 Sep 2024 04:50		JC\MD	Ok,M
32	PB163204ZHE#02	PB163204ZHE#02	VN083772.D	11 Sep 2024 05:14		JC\MD	Ok,M
33	PB163204ZHE#03	PB163204ZHE#03	VN083773.D	11 Sep 2024 05:38		JC\MD	Ok,M
34	PB163204ZHE#04	PB163204ZHE#04	VN083774.D	11 Sep 2024 06:02		JC\MD	Ok,M
35	PB163204ZHE#05	PB163204ZHE#05	VN083775.D	11 Sep 2024 06:26		JC\MD	Ok,M
36	PB163204ZHE#06	PB163204ZHE#06	VN083776.D	11 Sep 2024 06:50		JC\MD	Ok
37	PB163204ZHE#07	PB163204ZHE#07	VN083777.D	11 Sep 2024 07:14		JC\MD	Ok,M

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN091024

Review By	John Carlone	Review On	9/11/2024 4:18:14 PM
Supervise By	Semsettin Yesilyurt	Supervise On	9/11/2024 7:08:33 PM
SubDirectory	VN091024	HP Acquire Method	HP Processing Method 82N091024W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP130211,VP130225		
Initial Calibration Stds	VP130230,VP130231,VP130232,VP130233,VP130234,VP130235		
CCC	VP130212,VP130213,VP130226		
Internal Standard/PEM			
ICV/I.BLK	VP130236		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

38	PB163204ZHE#08	PB163204ZHE#08	VN083778.D	11 Sep 2024 07:38		JC\MD	Ok,M
39	PB163204ZHE#09	PB163204ZHE#09	VN083779.D	11 Sep 2024 08:02		JC\MD	Ok,M
40	PB163204ZHE#10	PB163204ZHE#10	VN083780.D	11 Sep 2024 08:26		JC\MD	Ok,M
41	PB163204ZHE#11	PB163204ZHE#11	VN083781.D	11 Sep 2024 08:50		JC\MD	Ok,M
42	PB163204ZHE#12	PB163204ZHE#12	VN083782.D	11 Sep 2024 09:14		JC\MD	Ok
43	P3872-01	WC-S-07-202409	VN083783.D	11 Sep 2024 09:38	vial A pH#5.0	JC\MD	Ok
44	P3892-02	ARS20-005	VN083784.D	11 Sep 2024 10:02	vial A pH#5.0	JC\MD	Ok,M
45	P3906-02	SU-701-COMP-01	VN083785.D	11 Sep 2024 10:26	vial A pH#5.0	JC\MD	Ok
46	P3906-08	SU-701-COMP-02	VN083786.D	11 Sep 2024 10:50	vial A pH#5.0	JC\MD	Ok
47	P3906-14	SU-701-COMP-03	VN083787.D	11 Sep 2024 11:14	vial A pH#5.0	JC\MD	Ok
48	P3891-02	AUD-SBG	VN083788.D	11 Sep 2024 11:38	vial A pH#5.0 Surrogate Fail	JC\MD	ReRun
49	VSTDCCC050	VSTDCCC050EC	VN083789.D	11 Sep 2024 12:02		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN091124

Review By	John Carlone	Review On	9/12/2024 9:49:59 AM
Supervise By	Maresh Dadoda	Supervise On	9/12/2024 4:33:31 PM
SubDirectory	VN091124	HP Acquire Method	HP Processing Method 82N091024W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP130256
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP130257,VP130258

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN083790.D	11 Sep 2024 12:25		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN083791.D	11 Sep 2024 12:59	V13516	JC\MD	Ok,M
3	VN0911MBL01	VN0911MBL01	VN083792.D	11 Sep 2024 13:33		JC\MD	Ok
4	VN0911WBL01	VN0911WBL01	VN083793.D	11 Sep 2024 13:57		JC\MD	Ok
5	P3839-02	830	VN083794.D	11 Sep 2024 14:21	vial A pH<2 Surrogate Fail	JC\MD	ReRun
6	P3839-01	828	VN083795.D	11 Sep 2024 14:45	vial A pH<2	JC\MD	Ok
7	IBLK	IBLK	VN083796.D	11 Sep 2024 15:09		JC\MD	Ok
8	P3845-01DL	PT-VOA-WPDL	VN083797.D	11 Sep 2024 15:33		JC\MD	Ok
9	IBLK	IBLK	VN083798.D	11 Sep 2024 16:21		JC\MD	Ok
10	VN0911WBS01	VN0911WBS01	VN083799.D	11 Sep 2024 16:45		JC\MD	Ok,M
11	VN0911WBSD01	VN0911WBSD01	VN083800.D	11 Sep 2024 17:09		JC\MD	Ok,M
12	P3839-02	830	VN083801.D	11 Sep 2024 17:33	vial B pH<2	JC\MD	Ok,M
13	P3891-02	AUD-SBG	VN083802.D	11 Sep 2024 17:57	vial B pH#5.0	JC\MD	Ok,M
14	P3913-04	9424-A-C	VN083803.D	11 Sep 2024 18:21	Need straight run	JC\MD	Not Ok
15	P3913-06	9424-D-F	VN083804.D	11 Sep 2024 18:45	Need straight run	JC\MD	Not Ok
16	P3913-08	9424-D-F-82924-D	VN083805.D	11 Sep 2024 19:09	Need straight run	JC\MD	Not Ok
17	P3913-10	82924-A-C	VN083806.D	11 Sep 2024 19:33	Need straight run	JC\MD	Not Ok
18	PB163246TB	PB163246TB	VN083807.D	11 Sep 2024 19:57		JC\MD	Ok,M

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN091124

Review By	John Carlone	Review On	9/12/2024 9:49:59 AM
Supervise By	Mahesh Dadoda	Supervise On	9/12/2024 4:33:31 PM
SubDirectory	VN091124	HP Acquire Method	HP Processing Method 82N091024W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP130256		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP130257,VP130258		

19	P3911-02	SP-1	VN083808.D	11 Sep 2024 20:21	vial A pH#5.0	JC\MD	Ok,M
20	P3911-04	SP-2	VN083809.D	11 Sep 2024 20:45	vial A pH#5.0	JC\MD	Ok,M
21	P3911-06	SP-3	VN083810.D	11 Sep 2024 21:09	vial A pH#5.0	JC\MD	Ok,M
22	P3905-06	COMP-1	VN083811.D	11 Sep 2024 21:33	vial A pH#5.0 Surrogate Fail	JC\MD	ReRun
23	P3912-01	282-COMPOSITE-1	VN083812.D	11 Sep 2024 21:57	vial A pH<2	JC\MD	Ok
24	P3913-05	9424-A-C	VN083813.D	11 Sep 2024 22:21	vial A pH#5.0	JC\MD	Ok
25	P3913-07	9424-D-F	VN083814.D	11 Sep 2024 22:45	vial A pH#5.0	JC\MD	Ok
26	P3913-09	9424-D-F-82924-D	VN083815.D	11 Sep 2024 23:09	vial A pH#5.0	JC\MD	Ok
27	P3913-11	82924-A-C	VN083816.D	11 Sep 2024 23:33	vial A pH#5.0	JC\MD	Ok
28	VSTDCCC050	VSTDCCC050EC	VN083817.D	11 Sep 2024 23:56		JC\MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : P3845

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: VN091024,vn091124,

Standard ID :

VP126666,VP126667,VP128290,VP128298,VP128632,VP128762,VP128764,VP128766,VP128767,VP128768,VP1291
95,VP129517,VP129519,VP129855,VP129858,VP129860,VP130106,VP130211,VP130212,VP130213,VP130225,VP13
0226,VP130230,VP130231,VP130232,VP130233,VP130234,VP130235,VP130236,VP130256,VP130257,VP130258,

Chemical ID :

V12794,V12798,V12966,V13308,V13390,V13444,V13448,V13462,V13463,V13581,V13708,V13800,V13801,V13819,V
13915,V13916,V13952,V13953,V13964,V14016,V14017,V14096,V14103,V14104,V14124,V14140,V14141,V14143,V14
145,V14147,V14148,V14169,V14170,V14202,V14207,V14219,V14288,V14467,V14468,V14469,V14472,V14473,W 311
2,

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	VP126666	03/19/2024	09/19/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
03/28/2024								

FROM 0.80000ml of V13708 + 49.20000ml of V14141 = 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>
1738	8260 surrogate 20 ppm	VP126667	03/19/2024	09/19/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
03/28/2024								

FROM 0.04000ml of V13708 + 49.98000ml of V14141 = 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	VP128290	06/10/2024	11/23/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
06/12/2024								

FROM 0.25000ml of V13390 + 24.75000ml of V14148 = 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	VP128298	06/10/2024	11/23/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
06/12/2024								

FROM 0.10000ml of V14288 + 9.90000ml of V14148 = Final Quantity: 10.000 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>
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP128632	06/25/2024	12/11/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
07/02/2024								

FROM 0.80000ml of V13581 + 9.20000ml of V14147 = Final Quantity: 10.000 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	VP128762	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
07/02/2024								

FROM 0.50000ml of V12798 + 1.50000ml of V12794 + 23.00000ml of V14147 = 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>
1812	8260 Working Std(2-CVE)-100ppm	VP128764	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/02/2024

FROM 0.20000ml of V12798 + 19.08000ml of V14147 = Final Quantity: 20.000 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>
719	8260 Working STD (BCM)-First source, 400PPM	VP128766	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/02/2024

FROM 1.50000ml of V13462 + 1.50000ml of V13463 + 12.00000ml of V14147 = Final Quantity: 15.000 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>
252	8260 Working STD (BCM)-First source, 100PPM	VP128767	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
07/02/2024								

FROM 0.50000ml of V13463 + 9.50000ml of V14147 = Final Quantity: 10.000 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>
253	8260 Working STD (BCM)-First source, 20PPM	VP128768	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
07/02/2024								

FROM 0.10000ml of V13463 + 9.90000ml of V14147 = Final Quantity: 10.000 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>
262	8260 Working STD (BCM)-Second source, 100PPM	VP129195	07/22/2024	01/22/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/26/2024

FROM 1.00000ml of V12966 + 9.00000ml of V14143 = Final Quantity: 10.000 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>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP129517	08/05/2024	09/14/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/08/2024

FROM 0.40000ml of V13444 + 1.00000ml of V13800 + 1.00000ml of V13801 + 1.00000ml of V13952 + 1.00000ml of V13953 + 1.00000ml of V14016 + 1.00000ml of V14017 + 1.00000ml of V14103 + 1.00000ml of V14104 + 1.00000ml of V14169 + 1.00000ml of V14170 + 1.00000ml of V14219 + 1.50000ml of V14202 + 1.50000ml of V14207 + 10.60000ml of V14143 = 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>
245	8260 Calibration Working STD Mix-First source, 20PPM	VP129519	08/05/2024	09/14/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda 08/08/2024

FROM 17.50000ml of V14143 + 2.50000ml of VP129517 = Final Quantity: 20.000 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>
263	8260 Working STD (Acrolein)-Second source, 800PPM	VP129855	08/21/2024	09/14/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda 08/24/2024

FROM 0.60000ml of V14473 + 1.00000ml of V14472 + 8.40000ml of V14140 = Final Quantity: 10.000 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>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP129858	08/21/2024	09/15/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/24/2024

FROM 1.00000ml of V14469 + 1.50000ml of V14467 + 1.50000ml of V14468 + 21.00000ml of V14140 = 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>
180	8260 Working STD (Acrolein)-First source, 100PPM	VP129860	08/21/2024	09/15/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/24/2024

FROM 17.25000ml of V14140 + 2.50000ml of VP129858 = Final Quantity: 20.000 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>
259	8260 Calibration Working STD Mix-Second source, 160PPM	VP130106	09/04/2024	10/19/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/11/2024
<u>FROM</u>	0.16000ml of V13448 + 0.60000ml of V13915 + 0.80000ml of V13308 + 0.80000ml of V13819 + 0.80000ml of V13964 + 0.80000ml of V14096 + 0.80000ml of V14124 + 1.00000ml of V13916 + 4.24000ml of V14145 = Final Quantity: 10.000 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	VP130211	09/10/2024	09/11/2024	John Carlone	None	None	Mahesh Dadoda 09/11/2024
<u>FROM</u>	39.98400ml of W3112 + 0.01600ml of VP128290 = Final Quantity: 40.000 ml							



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

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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>
589	BFB TUNE CHECK	VP130225	09/10/2024	09/11/2024	John Carlone	None	None	Maresh Dadoda
								09/11/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP128290 = 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	VP130226	09/10/2024	09/11/2024	John Carlone	None	None	Maresh Dadoda
								09/11/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129517 + 0.01250ml of VP129858 = 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>
334	1 PPB ICC, 8260-Water	VP130230	09/10/2024	09/11/2024	John Carlone	None	None	Mahesh Dadoda 09/11/2024
<u>FROM</u>	39.98200ml of W3112 + 0.00200ml of VP126667 + 0.00200ml of VP128764 + 0.00200ml of VP128768 + 0.00200ml of VP129519 + 0.00200ml of VP129860 + 0.00800ml of VP128298 = 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>
335	5 PPB ICC, 8260-Water	VP130231	09/10/2024	09/11/2024	John Carlone	None	None	Mahesh Dadoda 09/11/2024
<u>FROM</u>	39.94200ml of W3112 + 0.00800ml of VP128298 + 0.01000ml of VP126667 + 0.01000ml of VP128764 + 0.01000ml of VP128768 + 0.01000ml of VP129519 + 0.01000ml of VP129860 = 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>
336	10 PPB ICC, 8260-Water	VP130232	09/10/2024	09/11/2024	John Carlone	None	None	Mahesh Dadoda 09/11/2024
<u>FROM</u>	39.92700ml of W3112 + 0.00100ml of VP126666 + 0.00400ml of VP128767 + 0.00800ml of VP128298 + 0.02000ml of VP128764 + 0.02000ml of VP129519 + 0.02000ml of VP129860 = 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>
337	20 PPB ICC, 8260-Water	VP130233	09/10/2024	09/11/2024	John Carlone	None	None	Mahesh Dadoda 09/11/2024
<u>FROM</u>	39.97000ml of W3112 + 0.00200ml of VP126666 + 0.00200ml of VP128766 + 0.00500ml of VP128762 + 0.00500ml of VP129517 + 0.00500ml of VP129858 + 0.00800ml of VP128298 = Final Quantity: 40.000 ml							



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[illegible]

<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	VP130258	09/11/2024	09/12/2024	John Carlone	None	None	Mahesh Dadoda 09/19/2024
<u>FROM</u>	39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129517 + 0.01250ml of VP129858 = 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 #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	12/13/2024	06/25/2024 / SAM	03/30/2022 / SAM	V12794

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	12/13/2024	06/25/2024 / SAM	03/30/2022 / SAM	V12798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	70046 / Bromochloromethane Std. sol/methanol 1000ppm	070122	01/22/2025	07/22/2024 / SAM	07/06/2022 / SAM	V12966

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)	112921	11/29/2024	09/04/2024 / SAM	11/16/2022 / SAM	V13308

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	12/08/2024	12/08/2023 / SAM	01/13/2023 / SAM	V13390

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	12/14/2024	06/14/2024 / SAM	01/23/2023 / SAM	V13444

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0191703	12/03/2024	06/03/2024 / SAM	01/23/2023 / SAM	V13448

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	01/01/2025	07/01/2024 / SAM	01/27/2023 / SAM	V13462

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	01/01/2025	07/01/2024 / SAM	01/27/2023 / SAM	V13463

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	12/25/2024	06/25/2024 / SAM	01/30/2023 / SAM	V13581

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	09/19/2024	03/19/2024 / SAM	04/12/2023 / SAM	V13708

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	01/30/2025	07/30/2024 / SAM	05/31/2023 / SAM	V13800

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0194279	12/28/2024	06/28/2024 / SAM	05/31/2023 / SAM	V13801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0197644	03/03/2025	09/03/2024 / SAM	05/31/2023 / SAM	V13819

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	A0193887	01/19/2025	07/19/2024 / SAM	07/24/2023 / SAM	V13915

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	A0193887	03/03/2025	09/03/2024 / SAM	07/24/2023 / SAM	V13916

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	A0196115	09/30/2024	06/14/2024 / SAM	09/25/2023 / SAM	V13952

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	A0196115	09/30/2024	06/14/2024 / SAM	09/25/2023 / SAM	V13953

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0199224	12/31/2024	09/04/2024 / SAM	09/25/2023 / SAM	V13964

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	12/14/2024	06/14/2024 / SAM	11/22/2023 / SAM	V14016

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	12/14/2024	06/14/2024 / SAM	11/22/2023 / SAM	V14017

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	A0205177	03/04/2025	09/04/2024 / SAM	12/22/2023 / SAM	V14096

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	12/14/2024	06/14/2024 / SAM	12/22/2023 / SAM	V14103

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	12/14/2024	06/14/2024 / SAM	12/22/2023 / SAM	V14104

LOTS

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	011624	03/04/2025	09/04/2024 / SAM	01/17/2024 / SAM	V14124

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	02/16/2025	08/16/2024 / SAM	02/06/2024 / SAM	V14140

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	09/19/2024	03/19/2024 / SAM	02/06/2024 / SAM	V14141

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	01/22/2025	07/22/2024 / SAM	02/06/2024 / SAM	V14143

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	12/11/2024	06/11/2024 / pedro	02/06/2024 / SAM	V14147

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	11/23/2024	05/23/2024 / pedro	02/06/2024 / SAM	V14148

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	12/14/2024	06/14/2024 / SAM	02/20/2024 / SAM	V14169

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	12/14/2024	06/14/2024 / SAM	02/20/2024 / SAM	V14170

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	12/25/2024	06/25/2024 / SAM	02/28/2024 / SAM	V14202

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	12/25/2024	06/25/2024 / SAM	02/28/2024 / SAM	V14207

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	12/25/2024	06/25/2024 / SAM	02/28/2024 / SAM	V14219

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	06/10/2025	06/10/2024 / SAM	04/15/2024 / SAM	V14288

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081524	09/15/2024	08/16/2024 / SAM	08/16/2024 / SAM	V14467

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081524	09/15/2024	08/16/2024 / SAM	08/16/2024 / SAM	V14468

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081524	09/15/2024	08/16/2024 / SAM	08/16/2024 / SAM	V14469

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081424	09/14/2024	08/16/2024 / SAM	08/16/2024 / SAM	V14472

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081424	09/14/2024	08/16/2024 / SAM	08/16/2024 / SAM	V14473

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112



CERTIFIED WEIGHT REPORT

Part Number: 95319
Lot Number: 011624
Description: Revised Additions Mix
11 components
011627
Refrigerate (4 °C)
Varied
6UTB
5E-05 Balance Uncertainty
0.021 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0

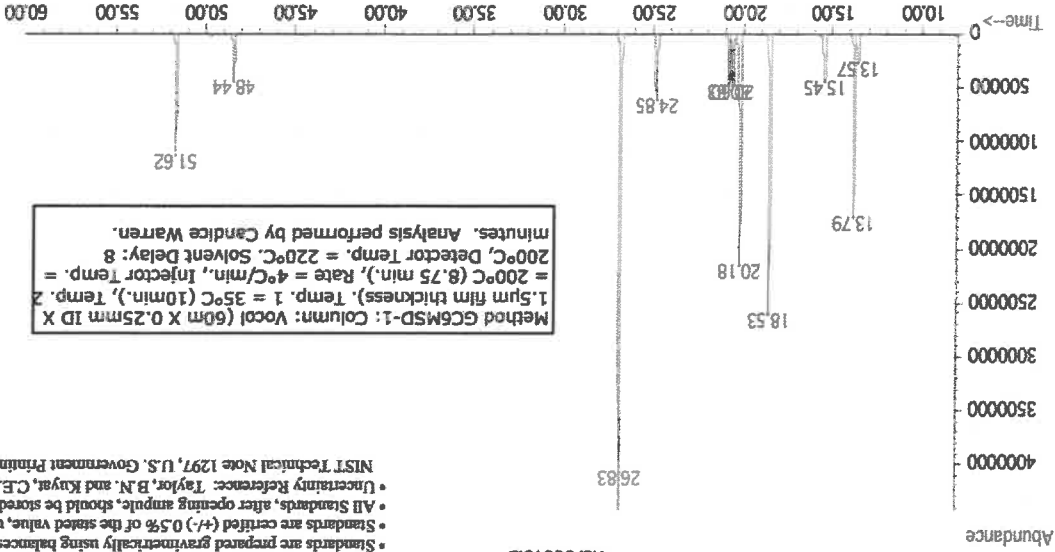
Formulated By: Prashant Chauhan	Reviewed By: Pedro L. Rentas
DATE: 011624	DATE: 011624

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
SDS Information (Solvent Safety Info. On Attached pg.)												

1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01035	1.01080	10004.4	40.6	107-13-1	N/A	or-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20007	0.20035	2002.8	8.1	109-69-3	N/A	or-rat 2670mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20207	0.20222	2001.5	8.2	110-82-7	N/A	or-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20207	0.20227	2002.0	8.2	108-20-3	500 ppm (2100mg/m3/8h)	or-rat 8470mg/kg
5. 1,4-Dioxane	373	03953KE	40000	99	0.2	4.04142	4.04213	40007.0	162.5	123-91-1	25 ppm (90mg/m3/8h)(skdn)	or-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20207	0.20221	2001.4	8.2	67-72-1	1 ppm (10mg/m3/8h)(skdn)	or-gp 4870mg/kg
7. Methylcyclohexane	1627	SHBG0199V	2000	99	0.2	0.20207	0.20230	2002.3	8.2	108-87-2	N/A	or-mus 2250mg/kg
8. Methyl tert-butyl ether (MTBE)	209	21880	2000	99	0.2	0.20207	0.20227	2002.0	8.2	1634-04-4	N/A	or-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02071	2.02150	20007.8	81.3	107-12-0	N/A	or-rat 39mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00125	1.00200	10007.5	40.3	109-99-9	20 ppm (590mg/m3/8h)	or-rat 1650mg/kg
11. 1,2,3,4-Tetramethylbenzene	481	AP01	2000	93	0.2	0.21511	0.21522	2001.0	8.7	488-23-3	N/A	or-rat 6408mg/kg

• The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
• Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
• Standards are 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).

TC: 95319.D



MSD RT	Name	(min.)
13.56	Methyl tert-butyl ether (MTBE)	
13.79	Acrylonitrile	
15.44	Di-isopropyl ether	
18.53	Propionitrile	
20.17	Tetrahydrofuran	
20.58	Cyclohexane	
20.83	1-Chlorobutane	
24.84	Methylcyclohexane	
26.84	1,4-Dioxane	
48.44	Hexachloroethane	
51.62	1,2,3,4-Tetramethylbenzene	



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**

Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty: **5E-05** Flask Uncertainty: **0.021**

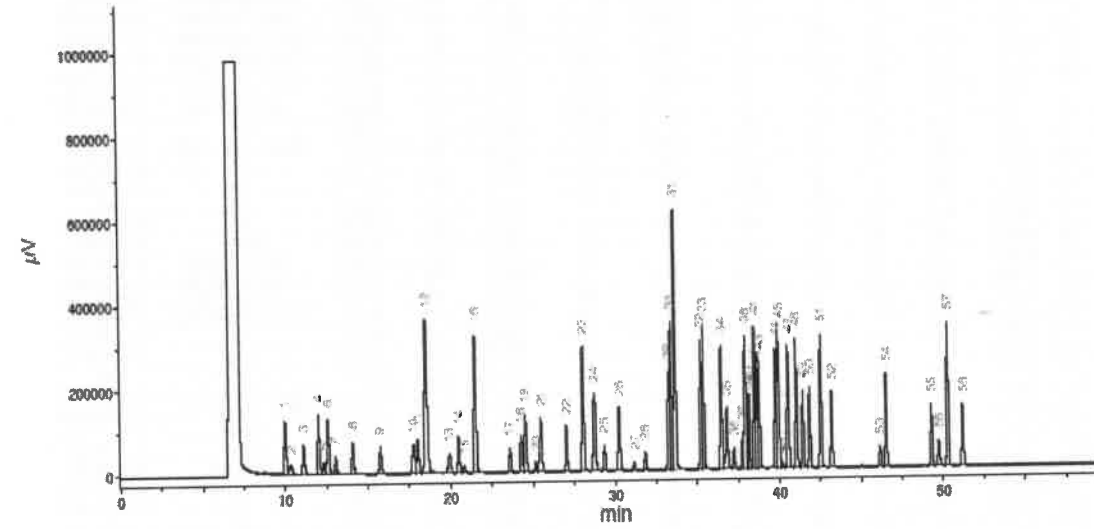
		021624
Formulated By:	Prashant Chauhan	DATE
		021624
Reviewed By:	Pedro L. Rentes	DATE

Compound	(RM#)	Lot	Di.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc. (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	(+/-) (µg/mL)	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)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	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	6.5	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 2400mg/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)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	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 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/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 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 840mg/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	N/A
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.6	22.9	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	2001.9	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	74-85-3	N/A	or-rat 105mg/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	N/A	or-rat 108mg/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	100 ppm	or-rat 725mg/kg
29. Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	584-20-7	N/A	N/A
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2000.2	22.9	107-08-2	50 ppm (8H)	or-rat 870mg/kg
35. 1,3-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
36. 1,1-Dichloropropene	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
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.1	22.9	563-56-6	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	10061-01-5	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	22.9	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 830mg/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	or-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	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	1999.7	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 490mg/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	108-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	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	1999.6	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	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	541-73-1	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	96-46-7	78 ppm (450mg/m3/8H)	or-rat 900mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6				

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-Hydropropane	25.46
22	cis-1,3-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	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-Trichloropropane	37.77
38	n-Propylbenzene	37.93
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**

Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty
0.021 Flask Uncertainty

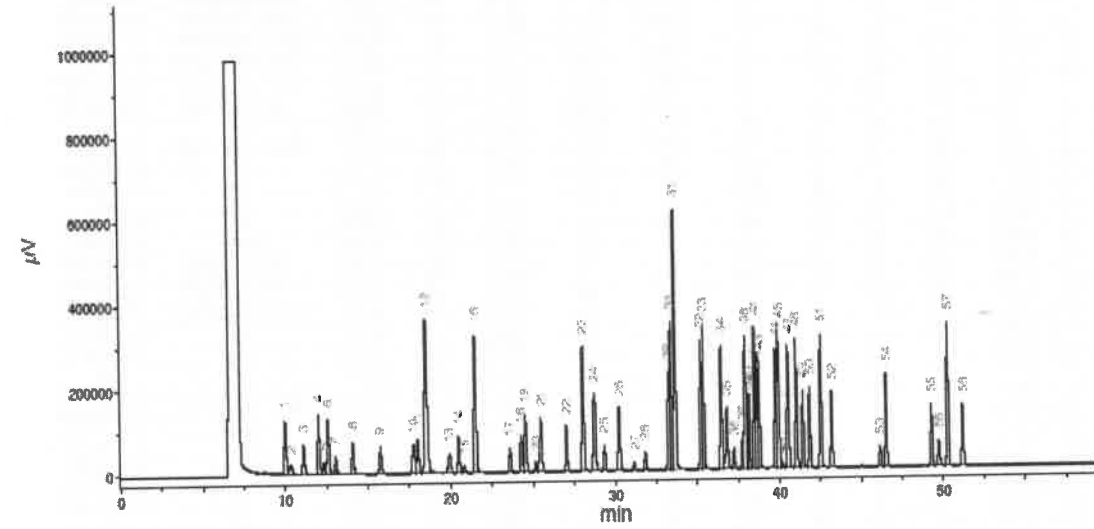
Formulated By:	<i>Prashant Chauhan</i>	021624
	Prashant Chauhan	DATE
Reviewed By:	<i>Pedro L. Rentes</i>	021624
	Pedro L. Rentes	DATE

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
	Part Number	Number	Factor	Vol. (mL)	Conc.(µg/mL)	Conc.(µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	(+/-) (µg/mL)				
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 disulphide	(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	N/A	
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 14800mg/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 70mg/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)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	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 43g/kg	
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 916mg/kg	
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 840mg/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	N/A	
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg	
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg	
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.6	22.9	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	2001.9	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	74-85-3	N/A	or-rat 105mg/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) (final)	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	40051.0	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	40005.9	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	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	22.9	563-56-6	N/A	N/A	
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A	
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A	
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	22.9	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 630mg/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 (60mg/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	1999.7	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 490mg/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	1999.7	22.9	108-98-3	200 ppm	or-rat 5000mg/kg	
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	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	108-88-3	200 ppm	or-rat 5000mg/kg	
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	97-61-6	N/A	or-rat 1390mg/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	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/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	95-63-6	N/A	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	106-67-8	N/A	or-rat 5000mg/kg	
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	40003.3												

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-Hydropropane	25.46
22	cis-1,3-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	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-Trichloropropane	37.77
38	n-Propylbenzene	37.93
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

Solvent(s):
Methanol
Lot#
EC592-US

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

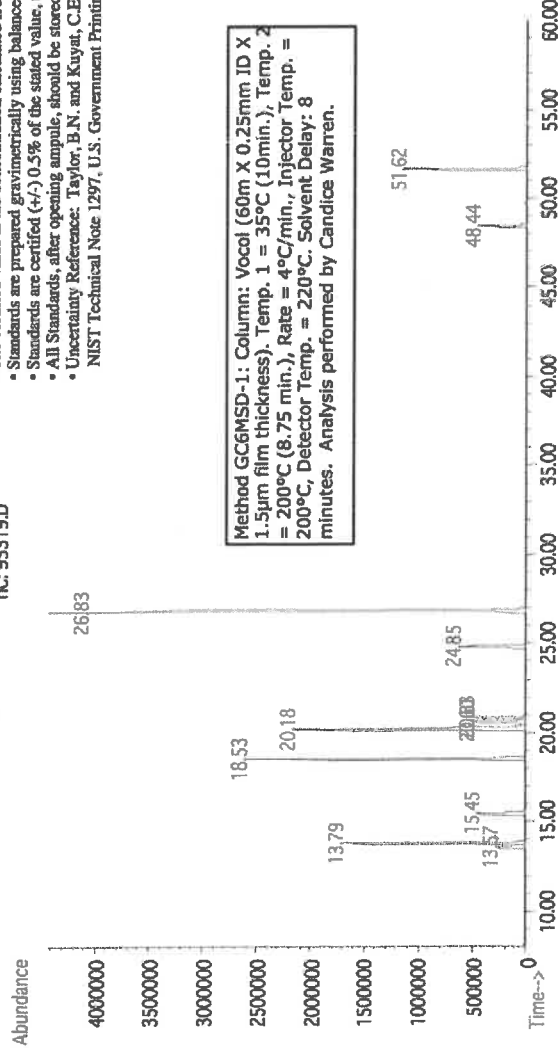
032925
Refrigerate (4 °C)
Varied
6UTB
5E-05 Balance Uncertainty
0.012 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0

Formulated By:	Prashant Chauhan	032922	DATE
Reviewed By:	Pedro L. Rentas	032922	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight (g)	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



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	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:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

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
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.
Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).
Clean up

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.
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.
Storage Conditions

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

Section X. STABILITY AND REACTIVITY			
Boiling Point		65°C	Specific Gravity (H ₂ O = 1)
Vapor Pressure (mm Hg)		96	Melting Point
Vapor Density (AIR = 1)		1.11	Evaporation rate (Butyl Acetate = 1)
Solubility in Water		COMPLETE	
Appearance and Odor		CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.	

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 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 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 XIV. TRANSPORT INFORMATION	
DOT (US) UN number: 1280 Class: 3 Packing group: II Proper shipping name: Methanol IATA UN number: 1280 Class: 3 Packing group: II Proper shipping name: Methanol	

Section XV. REGULATORY INFORMATION	
OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation, Toxic by ingestion, Toxic by skin absorption, Irritant SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	

Section XVI. Misc. INFORMATION	
The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other 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.	



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

95319
032922
Revised Additions Mix

Solvent(s):
Methanol
Lot#
EC592-US

11 components

Expiration Date:

Recommended Storage:

Nominal Concentration (µg/mL):

NIST Test ID#:

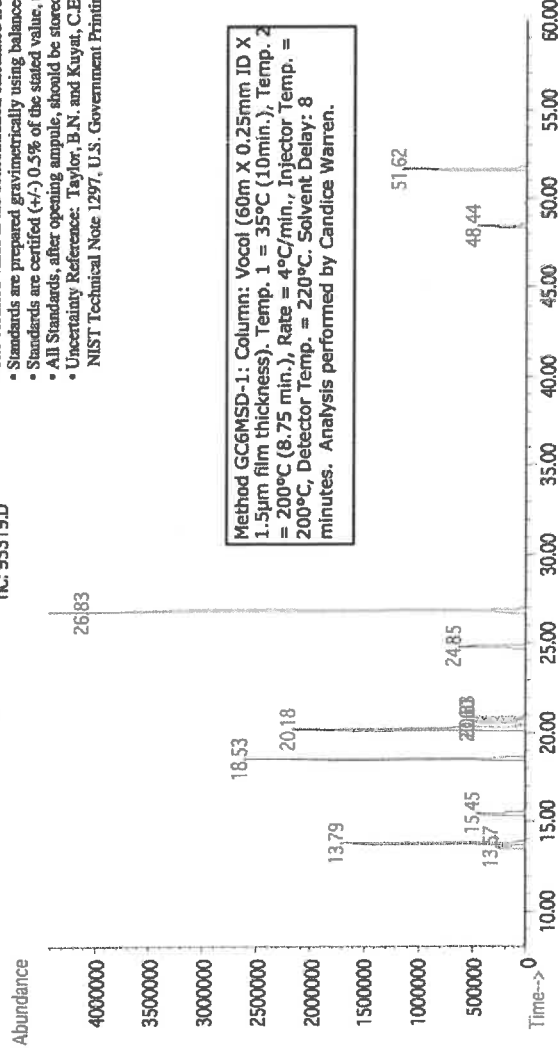
Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.012 Flask Uncertainty

Formulated By:	Prashant Chauhan	DATE	032922
Reviewed By:	Pedro L. Rentas	DATE	032922

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight (g)	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



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	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 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
  	Signal Word: DANGER		

Section III - Composition

Components:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

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
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.
Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).
Clean up

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.
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.
Storage Conditions

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

Section X. STABILITY AND REACTIVITY			
Solubility in Water			
COMPLETE			
Appearance and Odor			
CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.			
Boiling Point			
65°C			
Vapor Pressure (mm Hg)			
96			
Vapor Density (AIR = 1)			
1.11			
Melting Point			
-98°C			
Specific Gravity (H ₂ O = 1)			
0.79			
Evaporation rate (Butyl Acetate = 1)			
4.6			

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 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 XIII. DISPOSAL CONSIDERATIONS	
Dispose with normal Laboratory Solvent Waste.	
Section XIV. TRANSPORT 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 XV. REGULATORY INFORMATION	
OSHA Hazards	
Flammable liquid, Target Organ Effect, Toxic by inhalation, 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 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.



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:Solvent(s):
WaterLot#
121123Q91980
081424
AcroleinExpiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:091424
Refrigerate (4 °C)
5000
6UTB5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL):

10.0

Formulated By: Justin Dippold
Reviewed By: Pedro L. Rentas

081424

DATE

081424

DATE

Expanded
Uncertainty
(+/-) (µg/mL)SDS Information
(Solvent Safety Info. On Attached pg.)

CAS#

LD50

1. Acrolein 5 103755V10F 5000 97 0.5 0.05166 0.05185 5018.6 52.6 107-02-8 0.1 ppm ori-rat 46mg/kg

Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode), Column: Vocoil (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C, Analyst: Pedro Rentas, NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D

Abundance

Abundance

27

250000

8.93

200000



50000

56

150000

100000

50000

10000

37

Time-->

0

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00

m/z-->

0

20

30

40

50

60

70

80

90

100

110

120

130

140

150

160

170

158

169

* 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).



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:Solvent(s):
WaterLot#
121123Q91980
081424
AcroleinExpiration Date:
Refrigerate (4 °C)
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:091424
Refrigerate (4 °C)
5000
6UTB5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL):

10.0

Formulated By: Justin Dippold
Reviewed By: Pedro L. Rentas

081424

DATE

081424

DATE

Expanded
Uncertainty
(+/-) (µg/mL)SDS Information
(Solvent Safety Info. On Attached pg.)

CAS#

LD50

Compound

1. Acrolein 5 103755V10F 5000 97 0.5 0.05166 0.05185 5018.6 52.6 107-02-8 0.1 ppm ori-rat 46mg/kg

Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode). Column: Vocoil (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately.
Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D

Abundance

Abundance

27

250000

8.93

200000



50000

56

150000

100000

50000

10000

37

Time-->

0

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00

m/z-->

0

20

30

40

50

60

70

80

90

100

110

120

130

140

150

160

170

158

169

* 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).



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

91980
081524
Acrolein

Solvent(s):
Water

Lot#
121123Q

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

091524
Refrigerate (4 °C)
5000
6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL):

10.0

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

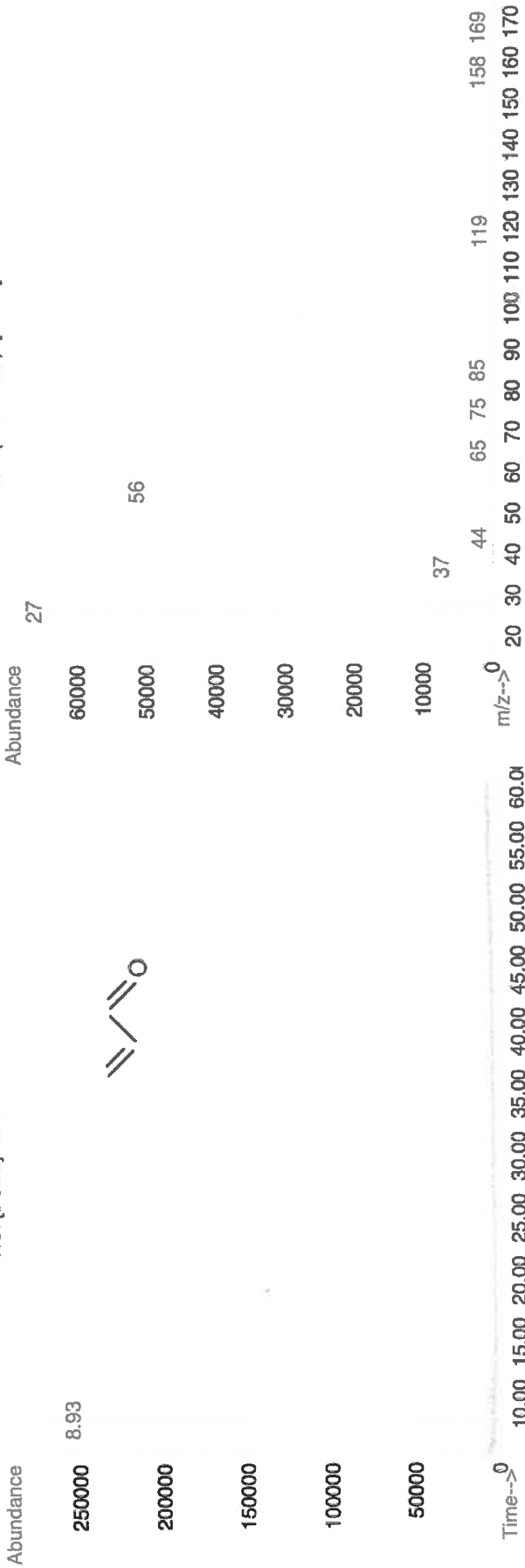
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50

1. Acrolein 5 103755R02H 5000 97 0.5 0.05166 0.05170 5004.1 52.5 107-02-8 0.1 ppm or-rat 46mg/kg

Method: GC6MSD-1, Detector: Mass Selective Detector (Scan mode), Column: Vooel (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C, Analyst: Pedro Rentas, NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

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 capse 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
Address 44 Rossotto Dr.
Hamden CT, 06514
Date Prepared/Revised January 1, 2024
Emergency Telephone USA & CANADA 1-800-535-5053
Emergency Telephone International 1-352-323-3500

Section II - Hazards Identification

P271
P302,332
Signal Word: DANGER
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
H315
P280
P305,351,338
Causes skin and eye irritation.
Use gloves, eye protection/face shield
If in eyes, remove contacts, rinse with water
If on skin, wash with soap and water
Use in ventilated area



Section III - Composition

Components (Specific Chemical Identity; Common Name(s))
Water
CAS#: 7732-18-5
% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.
INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Wash with soap and water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

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.
Storage Conditions
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water
CAS#: 7732-18-5
TWA: 500 ppm
Personal protective equipment
Respiratory protection
Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point
100°C
Specific Gravity (H₂O = 1)
1
Melting Point

Vapor Pressure (mm Hg)

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.

Section XVI. Misc. INFORMATION

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)
Not dangerous goods
Proper shipping name: Water
IATA
Not dangerous goods
Proper shipping name: Water

Section XIV. TRANSPORT INFORMATION

Dispose with normal Laboratory Solvent Waste.

Section XIII. DISPOSAL CONSIDERATIONS

LC50 NA
EC50 NA

Section XII. ECOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XI. TOXICOLOGICAL INFORMATION

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 X. STABILITY AND REACTIVITY

Appearance and Odor
CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)	NA	Solubility in Water	Completely miscible
0°C						



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

91980
081524
Acrolein

Solvent(s):
Water

Lot#
121123Q

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

091524
Refrigerate (4 °C)
5000
6UTB

Weight(s) shown below were combined and diluted to (mL):

10.0

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Gabriel Holland</i>		081524
Formulated By:	Gabriel Holland	DATE
<i>Pedro L. Rentas</i>		081524
Reviewed By:	Pedro L. Rentas	DATE

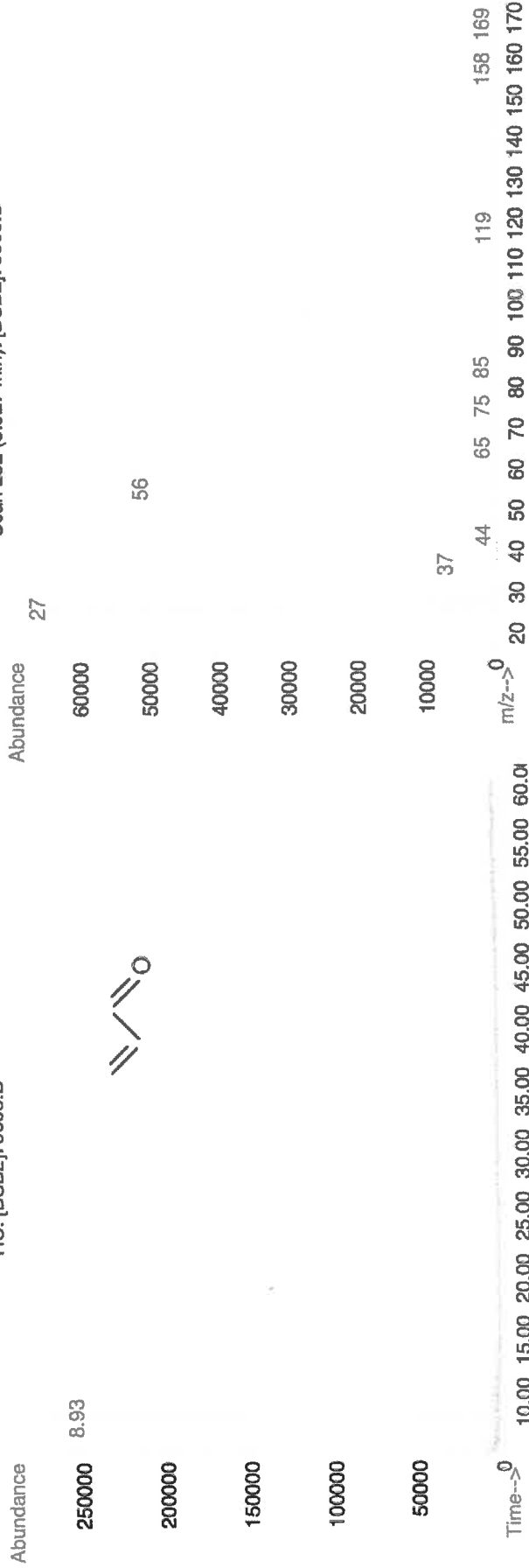
SDS Information									
Expanded (Solvent Safety Info. On Attached pg.)									
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	LD50

1. Acrolein	5	103755R02H	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vooel (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

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 capse 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
Address 44 Rossotto Dr.
Hamden CT, 06514
Date Prepared/Revised January 1, 2024
Emergency Telephone USA & CANADA 1-800-535-5053
Emergency Telephone International 1-352-323-3500

Section II - Hazards Identification

P271 Use in ventilated area
P302,332 If on skin, wash with soap and water
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
H315 Causes skin and eye irritation.
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)) Water
CAS#: 7732-18-5
% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.
INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Wash with soap and water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

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.
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	

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.

Section XVI. Misc. INFORMATION

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)
Not dangerous goods
Proper shipping name: Water
IATA
Not dangerous goods
Proper shipping name: Water

Section XIV. TRANSPORT INFORMATION

Dispose with normal Laboratory Solvent Waste.

Section XIII. DISPOSAL CONSIDERATIONS

LC50 NA
EC50 NA

Section XII. ECOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XI. TOXICOLOGICAL INFORMATION

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 X. STABILITY AND REACTIVITY

Appearance and Odor
CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)	NA	Solubility in Water	Completely miscible
0°C						



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

91980
081524
Acrolein

Solvent(s):
Water

Lot#
121123Q

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

091524
Refrigerate (4 °C)
5000
6UTB

Weight(s) shown below were combined and diluted to (mL):

10.0

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Gabriel Holland</i>		081524
Formulated By:	Gabriel Holland	DATE
<i>Pedro L. Rentas</i>		081524
Reviewed By:	Pedro L. Rentas	DATE

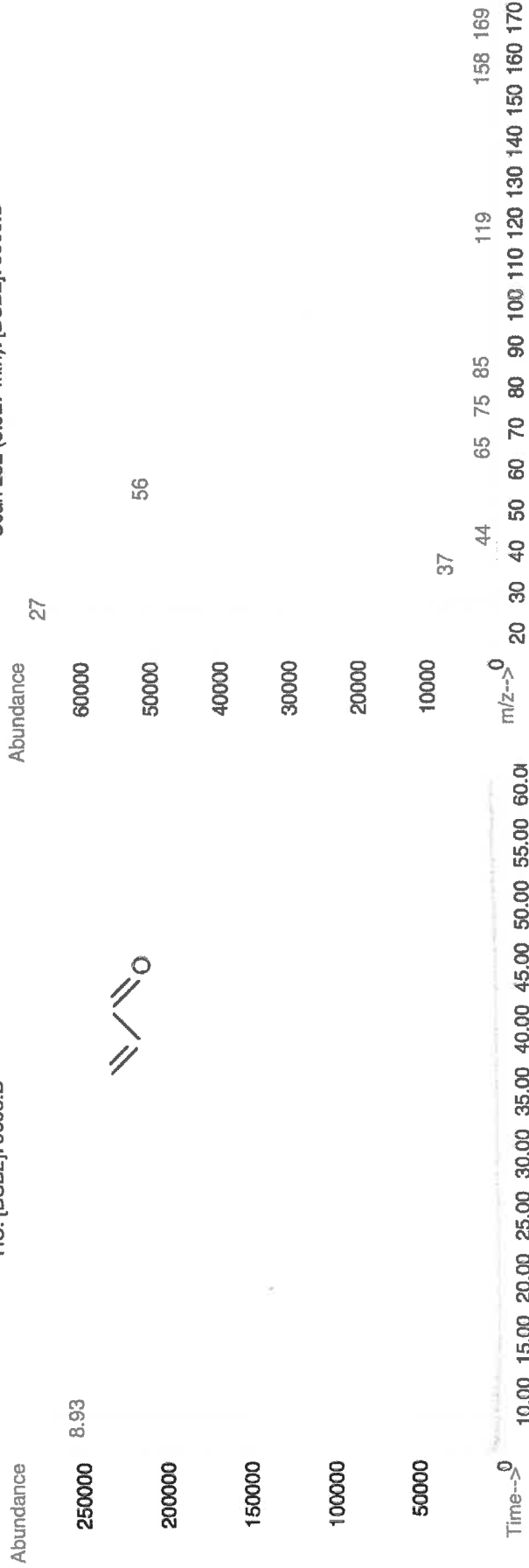
SDS Information									
Expanded									
Uncertainty (Solvent Safety Info. On Attached pg.)									
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	LD50

1. Acrolein 5 103755R02H 5000 97 0.5 0.05166 0.05170 5004.1 52.5 107-02-8 0.1 ppm or-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vooel (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

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 capse 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
Address 44 Rossotto Dr.
Hamden CT, 06514
Date Prepared/Revised January 1, 2024
Emergency Telephone USA & CANADA 1-800-535-5053
Emergency Telephone International 1-352-323-3500

Section II - Hazards Identification

P271 Use in ventilated area
P302,332 If on skin, wash with soap and water
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
H315 Causes skin and eye irritation.
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)) Water
CAS#: 7732-18-5
% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.
INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Wash with soap and water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

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.
Storage Conditions
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water
CAS#: 7732-18-5
TWA: 500 ppm
Personal protective equipment
Respiratory protection
Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point
100°C
Specific Gravity (H₂O = 1)
1
Melting Point

Vapor Pressure (mm Hg)

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.

Section XVI. Misc. INFORMATION

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)
Not dangerous goods
Proper shipping name: Water
IATA
Not dangerous goods
Proper shipping name: Water

Section XIV. TRANSPORT INFORMATION

Dispose with normal Laboratory Solvent Waste.

Section XIII. DISPOSAL CONSIDERATIONS

LC50 NA
EC50 NA

Section XII. ECOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XI. TOXICOLOGICAL INFORMATION

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 X. STABILITY AND REACTIVITY

Appearance and Odor
CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)	NA	Solubility in Water	Completely miscible
0°C						



CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 111722
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EB679-US

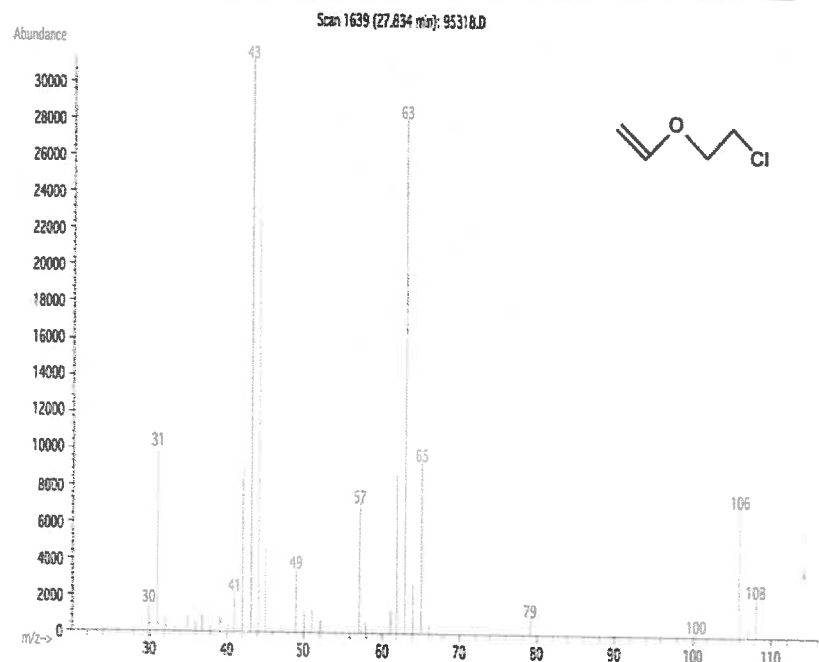
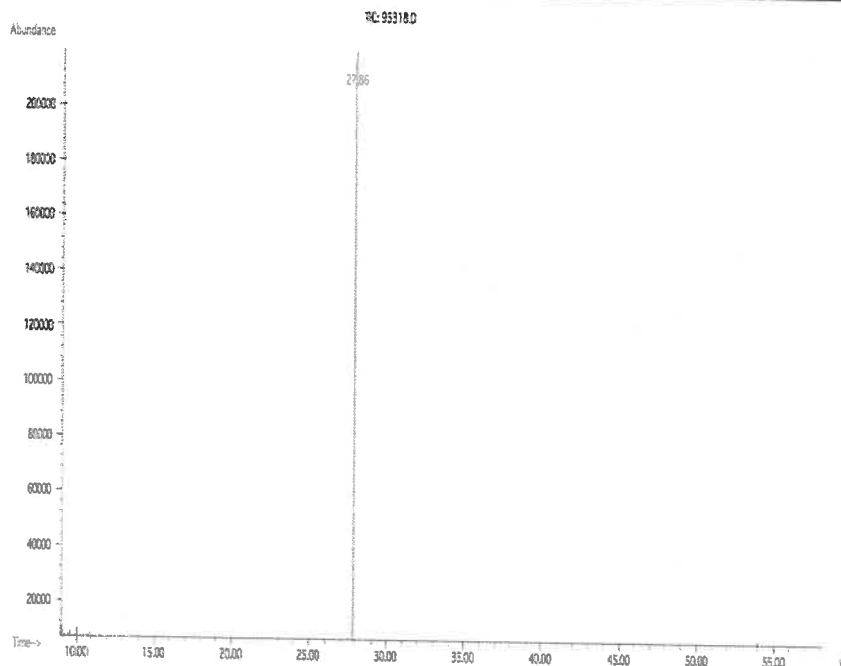
Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL): 50.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Eli Aliaga</i>		111722
Formulated By:	Eli Aliaga	DATE
<i>Pedro L. Rentas</i>		111722
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are 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).



CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol
Lot# EA899-US

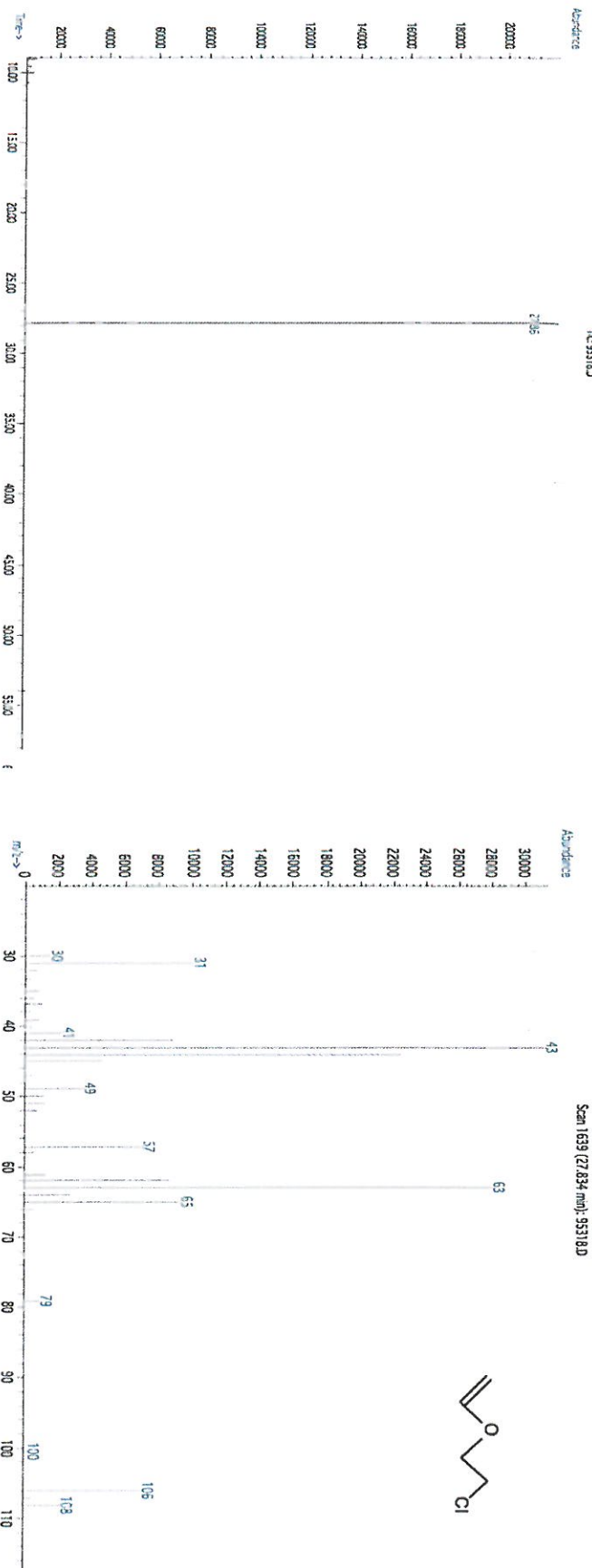
Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 30.0
5E-05 Balance Uncertainty
0.0003 Flask Uncertainty

Formulated By:	Benson Chan	121321
Reviewed By:	Pedro L. Rentes	121321
		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)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50

1. 2-Chloroethyl vinyl ether 74 MKCD0033 10000 99 0.2 0.30320 0.30411 10030.2 40.7 110-75-8 N/A or rat 250mg/kg

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).



CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol
Lot# EA899-US

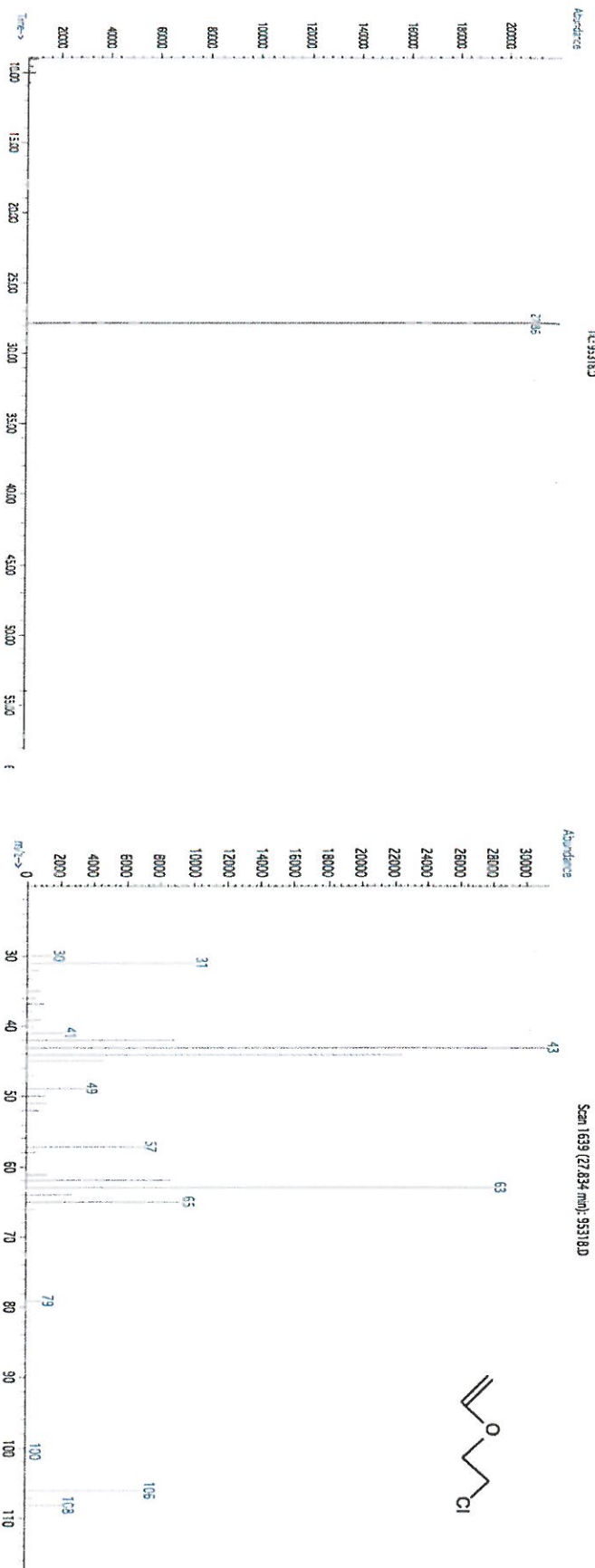
Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 30.0
5E-05 Balance Uncertainty
0.0003 Flask Uncertainty

Formulated By:	Benson Chan	121321
Reviewed By:	Pedro L. Rentes	121321
		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)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50

1. 2-Chloroethyl vinyl ether 74 MKCD0033 10000 99 0.2 0.30320 0.30411 10030.2 40.7 110-75-8 N/A or rat 250mg/kg

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).



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:

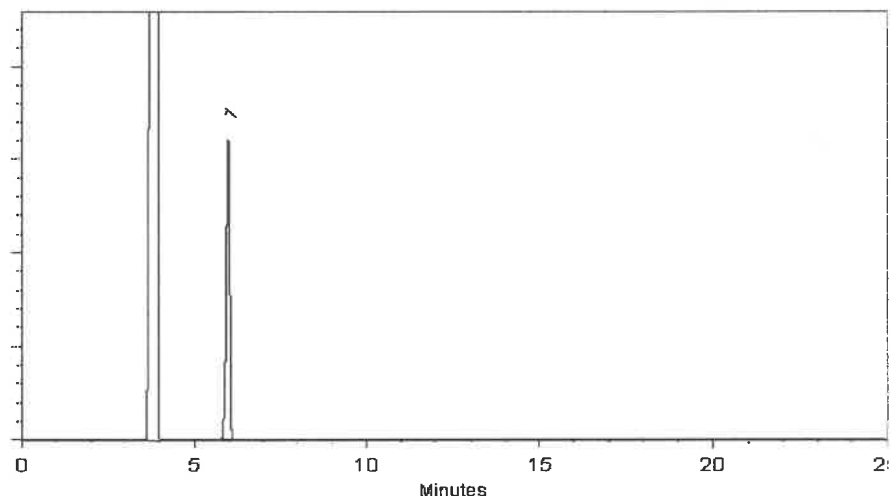
200°C

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: (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.:** A0191703
Description : tert-Butanol Standard
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : November 30, 2025 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	tert-Butanol (TBA) CAS # 75-65-0 Purity 99% (Lot 101619K21F-1)	50,122.0 µg/mL	+/- 293.4753 µg/mL Gravimetric +/- 1,073.6797 µg/mL Unstressed +/- 1,104.8612 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

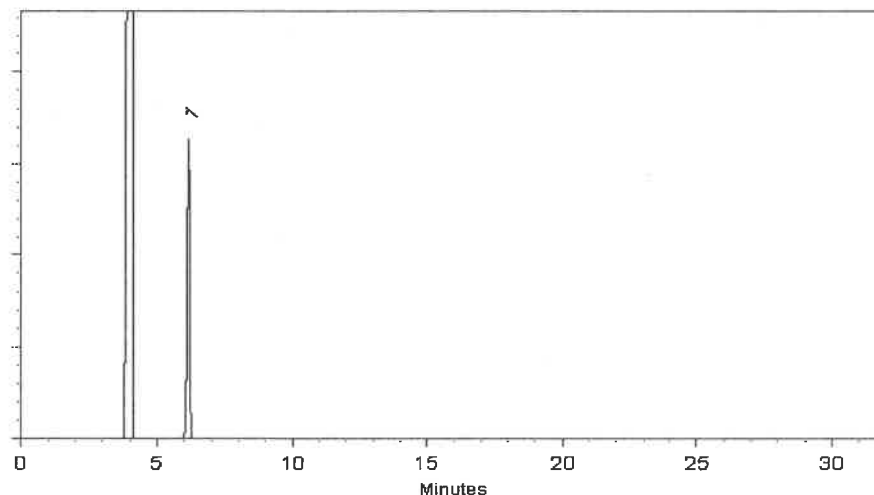
200°C

Det. Temp:

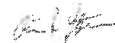
250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 15-Nov-2022

Balance: 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, 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.



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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. : 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:

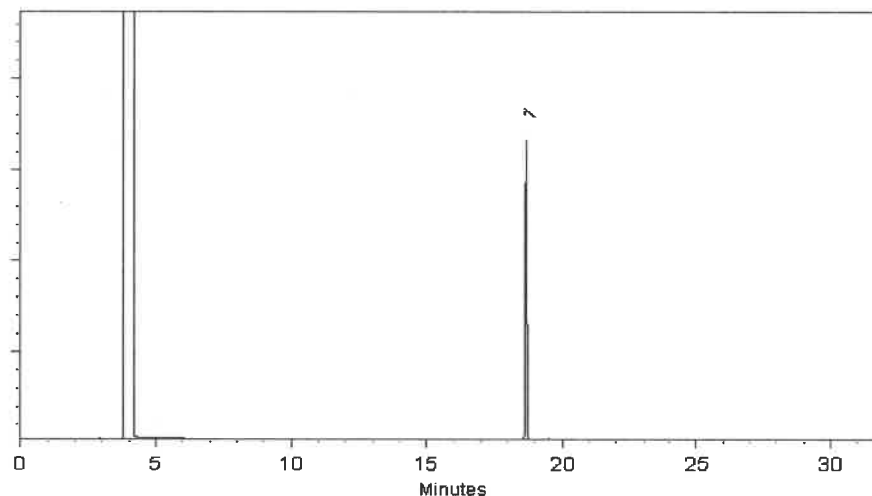
FID

Split Vent:

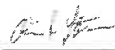
40 ml/min

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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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:

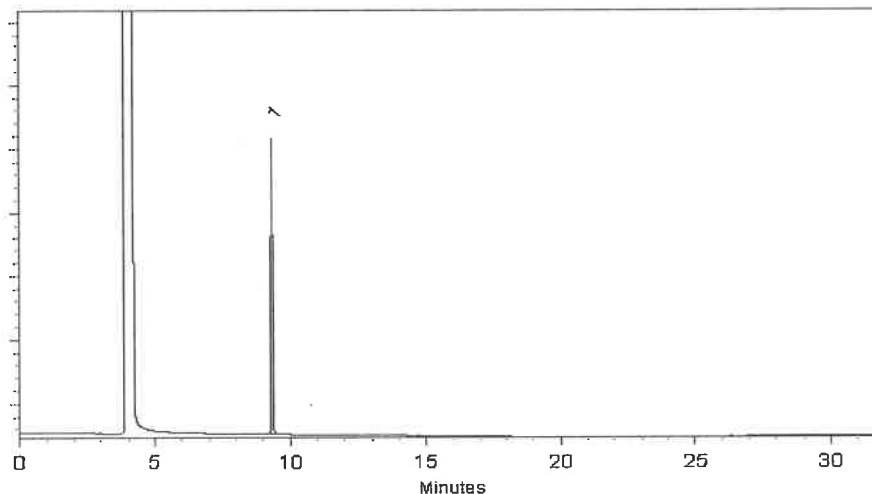
FID

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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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:

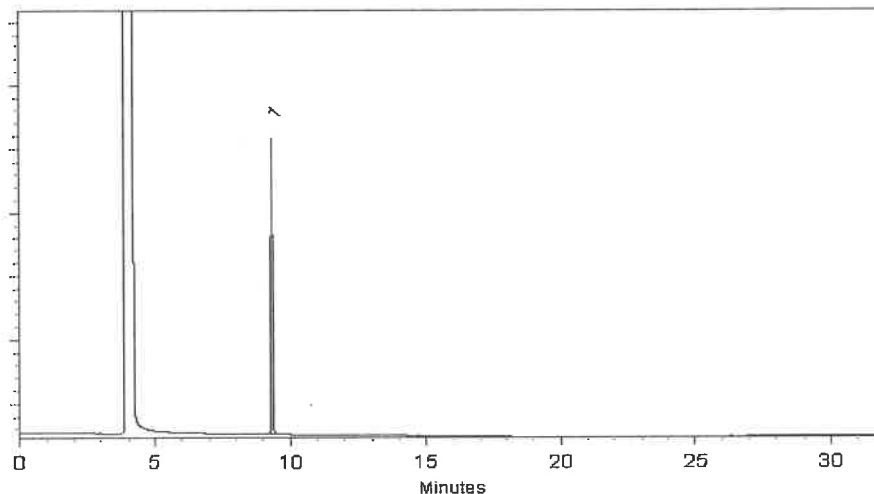
FID

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.
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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.: A0193887
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 : April 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%	5,006.5 µg/mL	+/- 173.0015
2	2-Butanone (MEK)	78-93-3	SHBN9536	99%	5,008.5 µg/mL	+/- 173.0706
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,000.3 µg/mL	+/- 172.7884
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,001.7 µg/mL	+/- 172.8345

* 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:

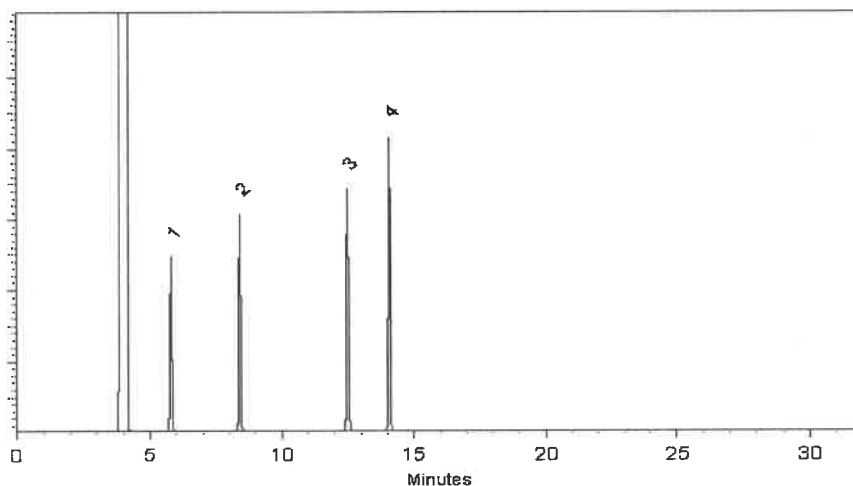
FID

Split Vent:

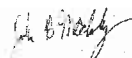
40 ml/min

Inj. Vol

1µl



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Josh McCloskey - Operations Technician I

Date Mixed: 24-Jan-2023

Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 27-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.
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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.: A0193887
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 : April 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%	5,006.5 µg/mL	+/- 173.0015
2	2-Butanone (MEK)	78-93-3	SHBN9536	99%	5,008.5 µg/mL	+/- 173.0706
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,000.3 µg/mL	+/- 172.7884
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,001.7 µg/mL	+/- 172.8345

* 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:

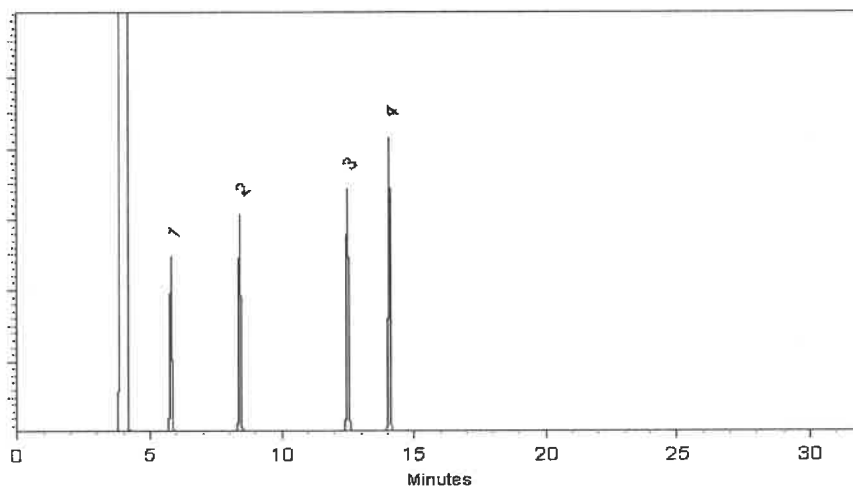
FID

Split Vent:

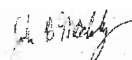
40 ml/min

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.


Josh McCloskey - Operations Technician I

Date Mixed: 24-Jan-2023

Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 27-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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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:

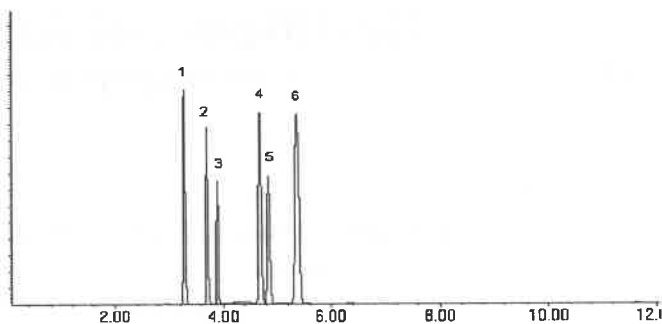
MSD

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/ μ ECD, 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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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:

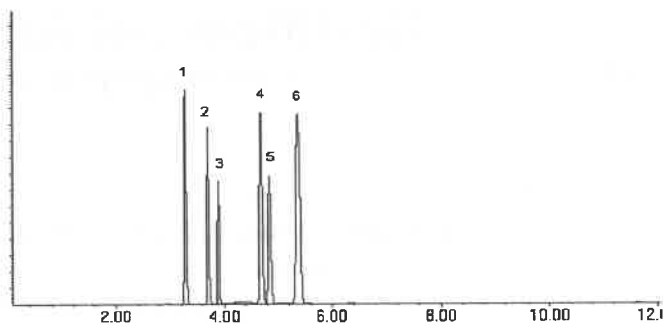
MSD

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/ μ ECD, 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. : 30489 **Lot No.:** A0196115
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, 2024 **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%	2,013.7 µg/mL	+/- 69.6015
2	Vinyl acetate	108-05-4	RD220630	99%	2,020.0 µg/mL	+/- 69.8205
3	Ethyl acetate	141-78-6	SHBP9289	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,014.0 µg/mL	+/- 69.6131
5	Propyl acetate	109-60-4	TFFKL	99%	2,014.7 µg/mL	+/- 69.6361
6	Butyl acetate	123-86-4	SHBP6314	99%	2,014.0 µg/mL	+/- 69.6131
7	Amyl acetate	628-63-7	41325/1	97%	2,016.3 µg/mL	+/- 69.6928

* 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:

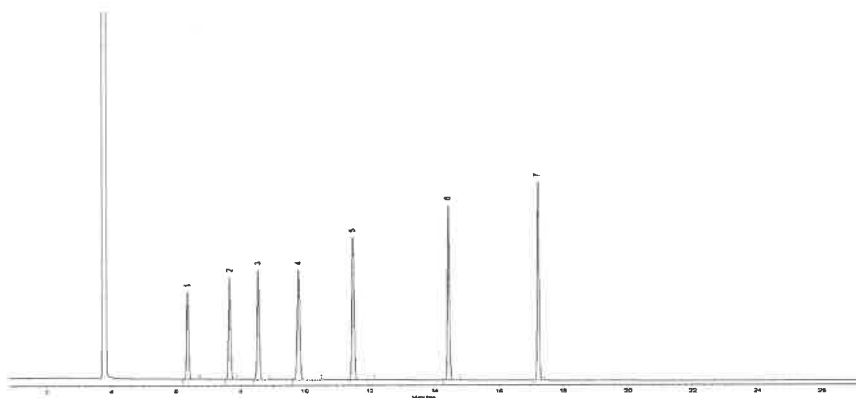
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

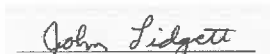


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Bethany Lowery - Operations Tech I

Date Mixed: 21-Mar-2023

Balance Serial # B251644995


John Lidgett - AD Chemist

Date Passed: 29-Mar-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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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.:** A0196115

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, 2024 **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%	2,013.7 µg/mL	+/- 69.6015
2	Vinyl acetate	108-05-4	RD220630	99%	2,020.0 µg/mL	+/- 69.8205
3	Ethyl acetate	141-78-6	SHBP9289	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,014.0 µg/mL	+/- 69.6131
5	Propyl acetate	109-60-4	TFFKL	99%	2,014.7 µg/mL	+/- 69.6361
6	Butyl acetate	123-86-4	SHBP6314	99%	2,014.0 µg/mL	+/- 69.6131
7	Amyl acetate	628-63-7	41325/1	97%	2,016.3 µg/mL	+/- 69.6928

* 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:

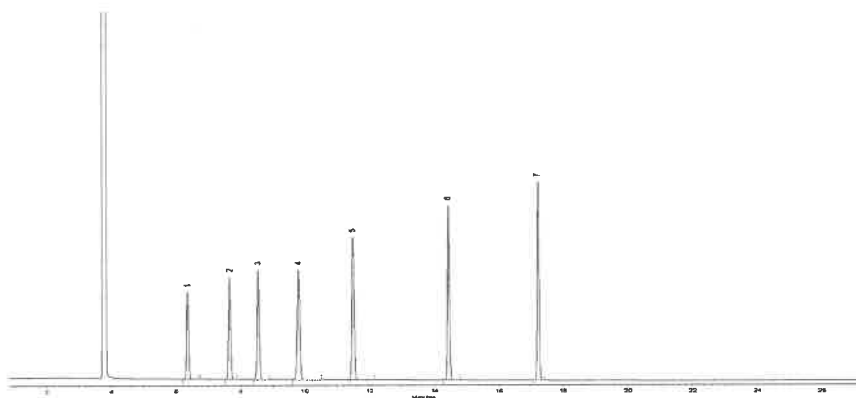
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

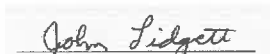


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Bethany Lowery - Operations Tech I

Date Mixed: 21-Mar-2023

Balance Serial # B251644995


John Lidgett - AD Chemist

Date Passed: 29-Mar-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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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:

- 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. : 30042 **Lot No.:** A0197644

Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2030 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.6 µg/mL	+/- 112.7159
2	Chloromethane (methyl chloride)	74-87-3	SHBM9611	99%	2,002.0 µg/mL	+/- 112.7840
3	Vinyl chloride	75-01-4	00015559	99%	2,002.2 µg/mL	+/- 112.6713
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8861
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.9 µg/mL	+/- 112.5990
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	1,999.2 µg/mL	+/- 112.4861

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

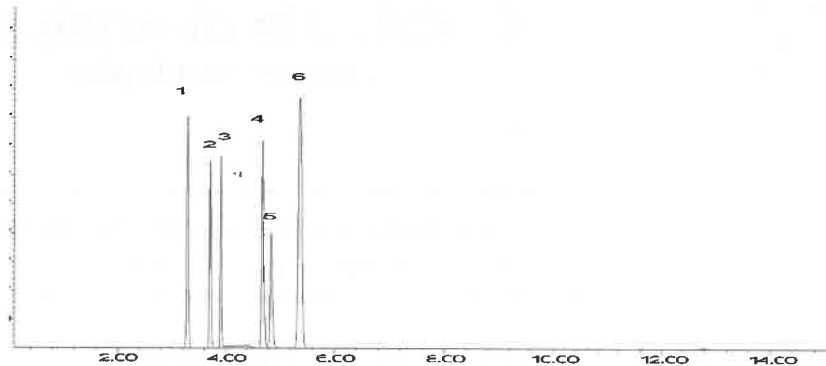
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Brittany Federinko - Operations Tech I

Date Mixed: 02-May-2023

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-May-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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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Fax: 1-814-353-1309

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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.:** A0199224

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 : December 31, 2024 **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%	2,015.0 µg/mL	+/- 69.6476
2	Vinyl acetate	108-05-4	RD220630	99%	2,014.3 µg/mL	+/- 69.6246
3	Ethyl acetate	141-78-6	SHBP9289	99%	2,012.7 µg/mL	+/- 69.5670
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,017.0 µg/mL	+/- 69.7168
5	Propyl acetate	109-60-4	KLOBM	99%	2,007.7 µg/mL	+/- 69.3942
6	Butyl acetate	123-86-4	SHBP6314	99%	2,014.3 µg/mL	+/- 69.6246
7	Amyl acetate	628-63-7	41325/1	97%	2,012.1 µg/mL	+/- 69.5475

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

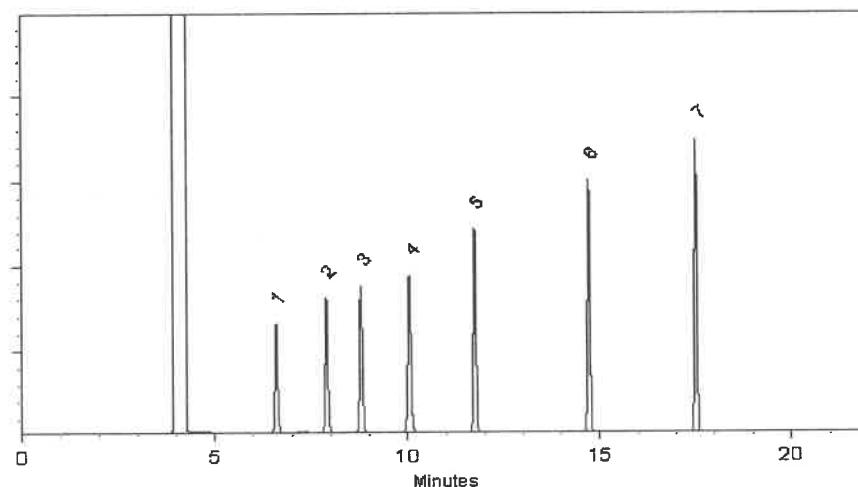
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 22-Jun-2023

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-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. : 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:

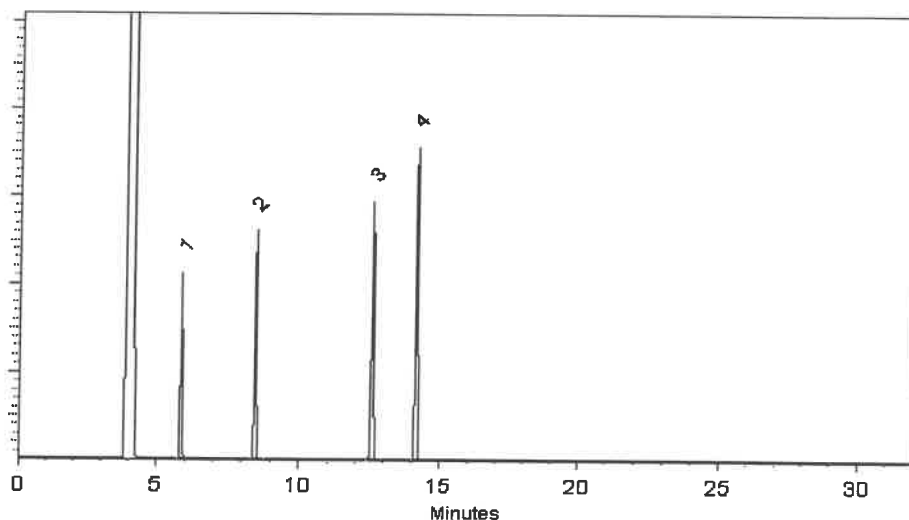
FID

Split Vent:

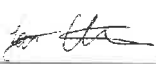
40 ml/min

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:

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Handling Notes:

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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:

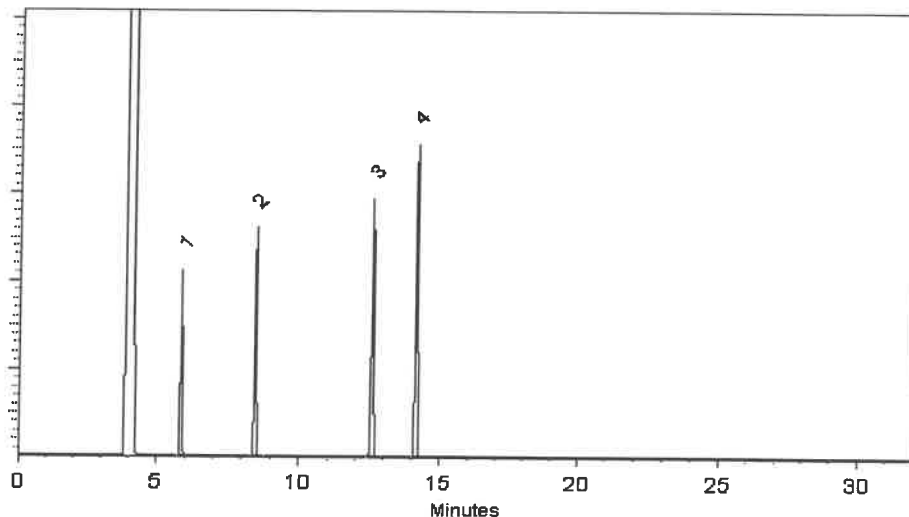
FID

Split Vent:

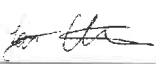
40 ml/min

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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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:

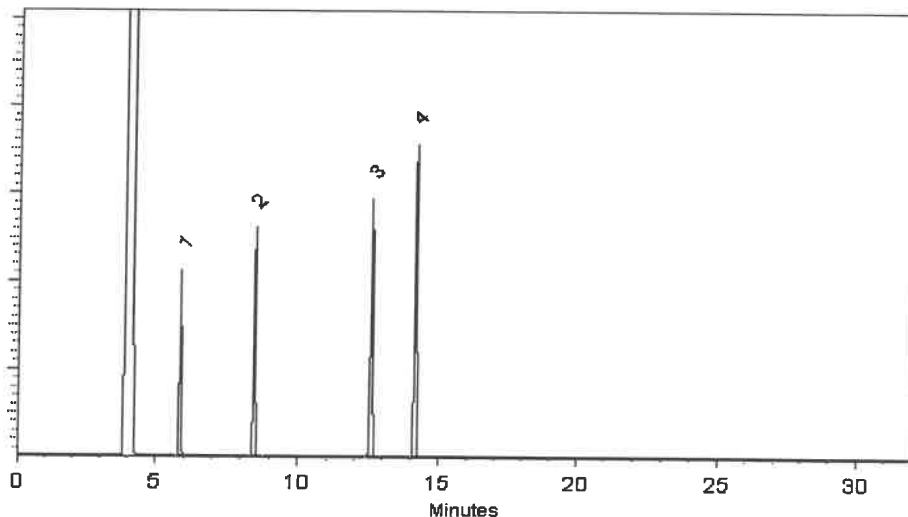
FID

Split Vent:

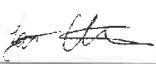
40 ml/min

Inj. Vol

1µl



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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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 555408-FL **Lot No.:** A0205177
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%	8,047.8 µg/mL	+/- 278.1675

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

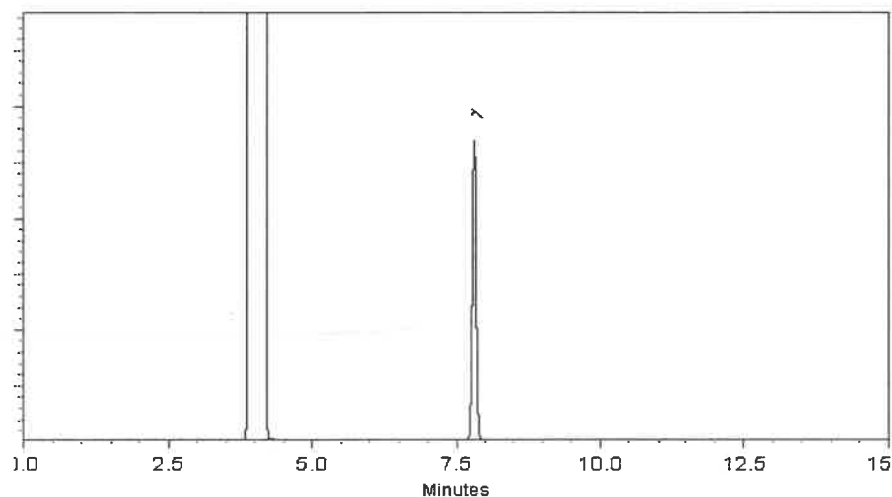
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 06-Dec-2023

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Dec-2023

APPROVED
By the Instrumentation & QA Dept. (11/15/23)

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.
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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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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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12
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic



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:

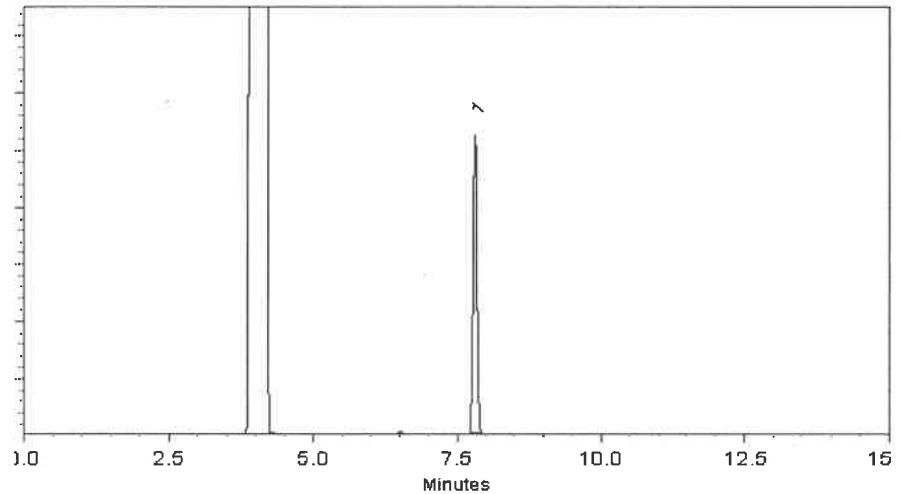
FID

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/ μ ECD, 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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

12
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic



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:

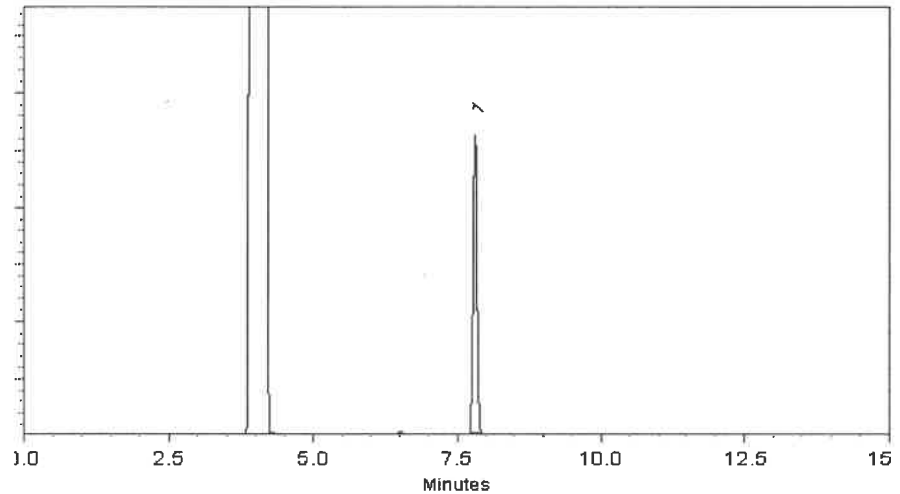
FID

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:

- 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.



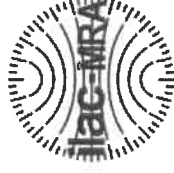
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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 - Operations Technician I

Date Mixed: 11-Apr-2024

Balance: 11275.10105



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.

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- 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%.

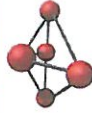
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

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.



CERTIFIED WEIGHT REPORT

Part Number: **70046**
Lot Number: **070122**
Description: **Bromochloromethane**

Solvent: **Methanol**
Lot# **EC592-US**

Expiration Date: **070127**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **25.0**

5E-05 Balance Uncertainty
0.0002 Flask Uncertainty

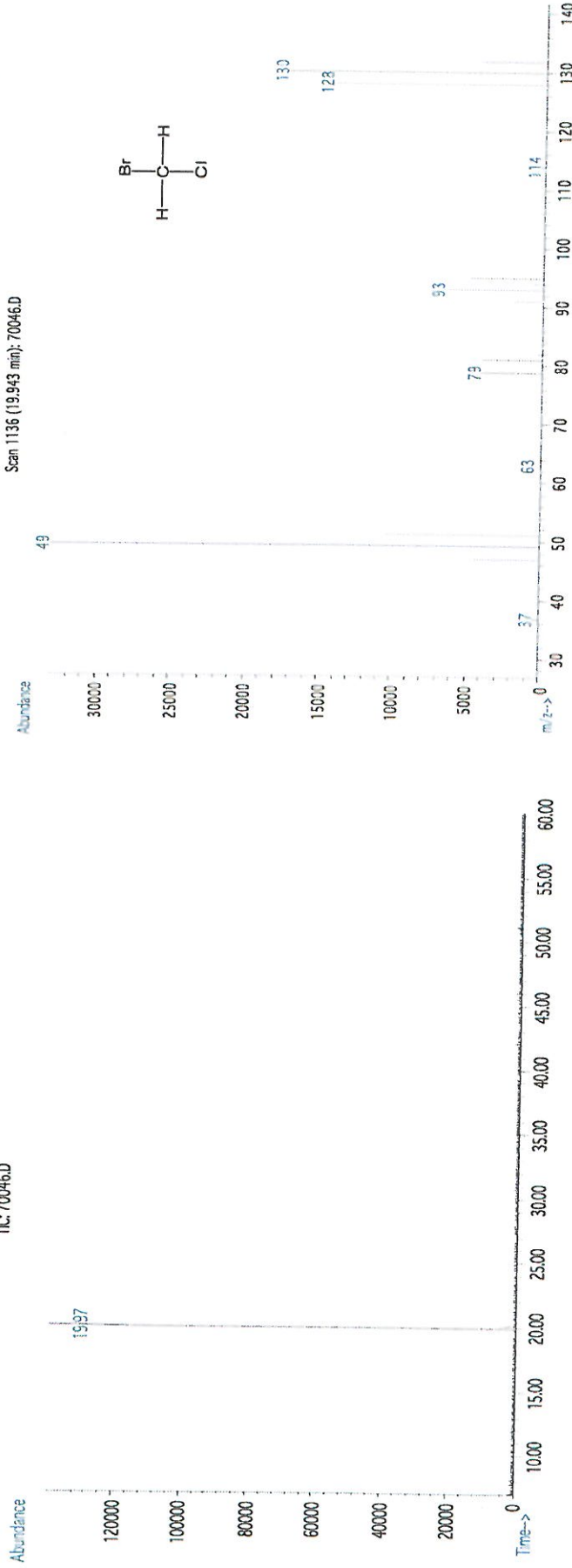
Formulated By:	<i>Gabriel Helland</i>	070122
DATE		
Reviewed By:	<i>Pedro L. Rentas</i>	070122
DATE		

SDS Information

Expanded Uncertainty (Solvent Safety Info. On Attached pg.)
Uncertainty (+/-) (µg/mL) CAS# OSHA PEL (TWA) LD50

Compound	46	AY01	1000	99	0.2	0.02530	0.02540	1004.1	5.7	74-97-5	200 ppm (1050mg/m ³ /8H)	ori-rat 5000mg/kg
1. Bromochloromethane												
Method GC/MSD-1.M: Column : (60m X 0.25mm X 1.5 µm) Temp 1 = 35°C (10min.), Temp 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector B= 200°C, Detector B = 220°C. Analyst:												
Candice Warren												

TIC: 70046.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).



CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 112921
Description: Universal VOA Megamix
69 components

Expiration Date: 11/29/24

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: 8UTB

Solvent(s): Lot#
Methanol EA599-USQ2

SE-05 Balance Uncertainty

0.012 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL):

100.0

Formulated By: <i>Prashant Chauhan</i>	112921
DATE	
Reviewed By: <i>Pedro L. Renteas</i>	112921
DATE	

Compound	(RMP)	Lot	Dir.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
	Part Number	Number	Factor	Vol. (mL)	Conc.(µg/mL)	Conc (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	Uncertainty (+/-) (µg/mL)	CASE	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	080812	NA	NA	NA	2000	99.9	0.2	NA	0.20021	0.20032	2001.1	8.1	75-05-8	40 ppm (70mg/m3)(H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0326)	102396	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20222	2001.9	8.2	107-05-1	1 ppm (3mg/m3)(H)	or-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCD9604	NA	NA	NA	2000	100	0.2	NA	0.20001	0.20015	2001.4	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	0.21054	0.21080	2000.6	8.5	1478-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0488)	MKBP041V	NA	NA	NA	2000	96.5	0.2	NA	0.20726	0.20736	2000.8	8.4	110-57-6	N/A	N/A
6. Diethyl ether (Ethyl ether)	(0153)	SHBK1918	NA	NA	NA	2000	99.9	0.2	NA	0.20023	0.20025	2000.2	8.1	60-29-7	400ppm (1200mg/m3)(H)	or-rat 1215mg/kg
7. Ethyl methacrylate	(0381)	D8126PX	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20208	2000.5	8.2	97-63-2	N/A	or-rat 14800mg/kg
8. Iodomethane	(0486)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20101	0.20110	2000.8	8.1	74-88-4	5 ppm(28mg/m3)(H)(skin)	or-rat 75mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20101	0.20122	2002.0	8.1	78-83-1	50 ppm (150mg/m3)(H)	or-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20211	2000.8	8.2	126-98-7	1 ppm (3mg/m3)(H)(skin)	or-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20021	0.20026	2000.5	8.1	96-33-3	10 ppm(35mg/m3)(H)(skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20021	0.20045	2002.4	8.1	80-62-6	100 ppm (410mg/m3)(H)	or-rat 7872mg/kg
13. Nitrobenzene	(0228)	D1213TV	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20231	2002.8	8.2	98-95-3	1 ppm (5mg/m3)(H)(skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20556	0.20582	2000.6	8.3	79-46-9	10 ppm (35mg/m3)(H)	or-rat 730mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20409	0.20412	2000.3	8.2	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20213	2001.0	8.2	76-13-1	1000 ppm (7800mg/m3)(H)	or-rat 43pg/kg
17. Bromodichloromethane	35171	051121	0.05	5.00	40015.4	2000	NA	NA	0.017	NA	NA	2000.7	18.4	75-27-4	N/A	or-rat 916mg/kg
18. Dibromochloromethane	35171	051121	0.05	5.00	40042.8	2000	NA	NA	0.017	NA	NA	2002.0	18.4	124-48-1	N/A	or-rat 848mg/kg
19. cis-1,2-Dichloroethane	35171	051121	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	2000.1	18.4	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethane	35171	051121	0.05	5.00	40006.5	2000	NA	NA	0.017	NA	NA	2000.3	18.4	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	051121	0.06	5.00	40021.1	2000	NA	NA	0.017	NA	NA	2001.0	18.4	75-09-2	500 ppm	or-rat 620mg/kg
22. 1,1-Dichloroethane	32251	070721	0.10	10.00	20014.9	2000	NA	NA	0.042	NA	NA	2001.4	18.3	75-35-4	1 ppm (4mg/m3)(H)	or-rat 200mg/kg
23. Bromoform	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.1	19.3	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 833mg/kg
24. Carbon tetrachloride	95321	010419	0.10	10.00	20001.3	2000	NA	NA	0.042	NA	NA	2000.0	19.2	56-23-5	2 ppm (12.8mg/m3)(H)	or-rat 2360mg/kg
25. Chloroform	95321	010419	0.10	10.00	20001.8	2000	NA	NA	0.042	NA	NA	2000.1	19.2	67-66-3	60 ppm (240mg/m3) (CL)	or-rat 508mg/kg
26. Dibromomethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.1	19.3	74-95-3	N/A	or-rat 1018mg/kg
27. 1,1-Dichloroethane	95321	010419	0.10	10.00	20000.8	2000	NA	NA	0.042	NA	NA	2000.0	19.3	75-34-3	100 ppm	or-rat 725mg/kg
28. 2,2-Dichloropropane	95321	010419	0.10	10.00	20002.1	2000	NA	NA	0.042	NA	NA	2000.1	19.3	594-20-7	N/A	N/A
29. Tetrachloroethane	95321	010419	0.10	10.00	20002.2	2000	NA	NA	0.042	NA	NA	2000.1	19.3	127-18-4	25 ppm (170mg/m3)(H)(fume)	or-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.1	19.3	71-55-6	350 ppm (1900mg/m3)(H)	or-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35181	102821	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	2000.2	18.4	96-12-6	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromoethane	35181	102821	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.5	18.4	106-93-4	20 ppm (H)	or-rat 108mg/kg
33. 1,2-Dichloroethane	35181	102821	0.05	5.00	40004.0	2000	NA	NA	0.017	NA	NA	2000.1	18.4	107-06-2	50 ppm (H)	or-rat 670mg/kg
34. 1,2-Dichloropropane	35181	102821	0.06	5.00	40016.9	2000	NA	NA	0.017	NA	NA	2000.7	18.4	78-67-5	75 ppm (350mg/m3)(H)	or-rat 1947mg/kg
35. 1,3-Dichloropropane	35181	102821	0.05	5.00	40003.9	2000	NA	NA	0.017	NA	NA	2000.1	18.4	142-26-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35181	102821	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2000.2	26.1	563-56-8	N/A	N/A
37. cis-1,3-Dichloropropene	35181	102821	0.06	5.00	40013.7	2000	NA	NA	0.017	NA	NA	2000.6	18.4	10081-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35181	102821	0.05	5.00	40002.0	2000	NA	NA	0.017	NA	NA	2000.0	18.5	10081-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35181	102821	0.05	5.00	40014.0	2000	NA	NA	0.017	NA	NA	2000.6	26.4	67-69-3	0.02 ppm (0.24mg/m3)(H)	or-rat 62mg/kg
40. 1,1,1,2-Tetrachloroethane	35181	102821	0.05	5.00	40010.9	2000	NA	NA	0.017	NA	NA	2000.4	18.4	630-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35181	102821	0.05	5.00	40015.0	2000	NA	NA	0.017	NA	NA	2000.7	18.4	79-34-5	5 ppm (35mg/m3)(H)(skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35181	102821	0.05	5.00	40011.7	2000	NA	NA	0.017	NA	NA	2000.5	18.4	79-00-5	10 ppm (45mg/m3)(H)(skin)	or-rat 830mg/kg
43. Trichloroethane	35181	102821	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	2000.1	18.4	79-01-6	50 ppm (270mg/m3)(H)	or-mus 2400mg/kg
44. 1,2,3-Trichloropropane	35181	102821	0.05	5.00	40005.2	2000	NA	NA	0.017	NA	NA	2000.2	18.4	96-18-4	10 ppm (60mg/m3)(H)	or-rat 149.6mg/kg
45. Benzene	35182	020821	0.05	5.00	40008.9	2000	NA	NA	0.017	NA	NA	2000.3	18.4	71-43-2	1 ppm	or-rat 4884mg/kg
46. Bromobenzene	35182	020821	0.05	5.00	40019.0	2000	NA	NA	0.017	NA	NA	2000.9	18.4	108-96-1	N/A	or-rat 2699mg/kg
47. n-Butyl benzene	35182	020821	0.05	5.00	40019.8	2000	NA	NA	0.017	NA	NA	2000.9	18.4	104-81-8	N/A	N/A
48. Ethyl benzene	35182	020821	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.9	18.4	100-41-4	100 ppm (435mg/m3)(H)	or-rat >2000mg/kg
49. p-Isopropyl toluene	35182	020821	0.05	5.00	40056.4	2000	NA	NA	0.017	NA	NA	2002.7	18.4	99-67-6	N/A	or-rat 4750mg/kg
50. Naphthalene	35182	020821	0.05	5.00	40005.1	2000	NA	NA	0.017	NA	NA	2000.2	18.3	91-20-3	10 ppm (50mg/m3)(H)	or-rat 490mg/kg
51. Styrene	35182	020821	0.05	5.00	40022.8	2000	NA	NA	0.017	NA	NA	2001.0	18.4	100-42-5	100 ppm	or-rat 5000mg/kg
52. Toluene	35182	020821	0.05	5.00	40008.9	2000	NA	NA	0.017	NA	NA	2000.3	18.4	108-66-3	200 ppm	or-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35182	020821	0.05	5.00	40002.0	2000	NA	NA	0.017	NA	NA	2000.0	18.4	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35182	020821	0.05	5.00	40027.4	2000	NA	NA	0.017	NA	NA	2001.3	18.4	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 54mg/kg
55. 1,2,4-Trimethylbenzene	35182	020821	0.05	5.00	40012.4	2000	NA	NA	0.017	NA	NA	2000.5	18.4	95-63-6	N/A	or-rat 54mg/kg
56. 1,3,5-Trimethylbenzene	35182	020821	0.05	5.00	40011.5	2000	NA	NA	0.017	NA	NA	2000.5	18.5	108-67-8	N/A	or-rat 5000mg/kg
57. m-Xylene	35182	020821	0.05	5.00	40021.8	2000	NA	NA	0.017	NA	NA	2001.0	18.4	106-36-3	100 ppm (435mg/m3)(H)	or-rat 54mg/kg
58. tert-Butyl benzene	35183	022521	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2000.2	18.4	96-06-6	N/A	N/A
59. sec-Butyl benzene	35183	022521	0.05	5.00	40011.7	2000	NA	NA	0.017	NA	NA	2000.5	18.4	136-88-8	N/A	or-rat 2240mg/kg
60. Chlorobenzene	35183	022521	0.05	5.00	40009.0	2000	NA	NA	0.017	NA	NA	2000.4	18.4	108-90-7	75 ppm (350mg/m3)(H)	or-rat 2290mg/kg
61. 2-Chlorotoluene	35183	022521	0.05	5.00	40002.0	2000	NA	NA	0.017	NA	NA	2000.0	18.4	95-49-8	60 ppm (250mg/m3)(H)	or-rat 3900mg/kg
62. 4-Chlorotoluene	35183	022521	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.9	18.4	106-43-4	N/A	or-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35183	022521	0.05	5.00	40004.0	2000	NA	NA	0.017	NA	NA	2000.1	18.4	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 600mg/kg
64. 1,3-Dichlorobenzene	35183	022521	0.05	5.00	40003.6	2000	NA	NA	0.017	NA	NA	2000.1	18.4	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35183	022521	0.05	5.00	40005.0	2000	NA	NA	0.017							

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, 2022

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.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	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.

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

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SHIPPING DOCUMENTS

Packing List

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Date	Order #
09/03/2024	318988



Ship To

Chemtech - NJ
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
9/5/2024
9:50

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
240802-01	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
			PT-TMSET-WP	WP Trace Metals Set : (TM1, HG and SNTI)		
1	1	0	PT-TM1-WP	WP Trace Metals 1	WP0924	8259-04
1	1	0	PT-HG-WP	WP Mercury	WP0924	8259-05
1	1	0	PT-SNTI-WP	WP Tin & Titanium	WP0924	8259-38
1	1	0	PT-CR6-WP	WP Hexavalent Chromium	WP0924	8259-06
1	1	0	PT-DEM-WP	WP Demand	WP0924	8259-07
			PT-MINSET-WP	WP Minerals Set : (MIN1, MIN2 and COND)		
1	1	0	PT-MIN1-WP	WP Minerals 1 Only	WP0924	8259-08
1	1	0	PT-MIN2-WP	WP Minerals 2 Only	WP0924	8259-102
1	1	0	PT-COND-WP	WP Conductivity Only	WP0924	8259-72
1	1	0	PT-SOL-WP	WP Solids	WP0924	8259-09
			PT-NUTSET-WP	WP Nutrients Set : (NUT1, NUT2 and NUT3)		
1	1	0	PT-NUT1-WP	WP NUT1 Simple Nutrients Only	WP0924	8259-10
1	1	0	PT-NUT2-WP	WP NUT2 - Complex Nutrients	WP0924	8259-11
1	1	0	PT-NUT3-WP	WP NUT3 - Nitrite Only	WP0924	8259-69
1	1	0	PT-OGR1L-WP	WP Oil and Grease 1L	WP0924	8259-103
1	1	0	PT-CL-WP	WP Residual Chlorine	WP0924	8259-13
1	1	0	PT-PH-WP	WP pH	WP0924	8259-15
1	1	0	PT-CN-WP	WP Cyanide	WP0924	8259-14
1	1	0	PT-PHEN-WP	WP Phenolics	WP0924	8259-16

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6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
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info@phenova.com
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For terms and conditions of your order, please visit:
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Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-S2-WP	WP Sulfide	WP0924	8259-22
1	1	0	PT-SSOL-WP	WP Settleable Solids	WP0924	8259-17
1	1	0	PT-VSOL-WP	WP Volatile Solids	WP0924	8259-18
1	1	0	PT-TURB-WP	WP Turbidity	WP0924	8259-20
1	1	0	PT-SIO2-WP	WP Silica	WP0924	8259-21
1	1	0	PT-COL-WP	WP Color	WP0924	8259-51
1	1	0	PT-VOA-WP	WP Volatiles	WP0924	8259-26
1	1	0	PT-BN-WP	WP Base Neutrals	WP0924	8259-27
1	1	0	PT-ACIDS-WP	WP Acids	WP0924	8259-28
1	1	0	PT-PEST-WP	WP Pesticides	WP0924	8259-29
1	1	0	PT-CHLR-WP	WP Chlordane	WP0924	8259-30
1	1	0	PT-TXP-WP	WP Toxaphene	WP0924	8259-31
1	1	0	PT-PCBW-WP	WP PCBs in Water	WP0924	8259-32
1	1	0	PT-HERB-WP	WP Herbicides	WP0924	8259-36
1	1	0	RR-TPH1L-WP	WP TPH 1L	R39151	R39151-104
1	1	0	RR-PAH-WP	WP PAH-Low Level	R39151	R39151-37
1	1	0	RR-GAS-WP	WP Gasoline Range Organics	R39151	R39151-62
1	1	0	RR-DIES-WP	WP Diesel Range Organics	R39151	R39151-63
1	1	0	RR-8011-WP	WP EDB/DBCP/TCP	R39151	R39151-98
1	1	0	RR-TRIAZINE-WP	WP Triazine Pesticides	R39151	R39151-108



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488