

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043173.D
 Acq On : 06 Nov 2025 18:23
 Operator : SY/MD
 Sample : Q3555-04 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 151-SG-2

Quant Time: Nov 07 00:25:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/10/2025
 Supervised By : Mahesh Dadoda 11/10/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	116388	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	320264	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	276449	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	217604	10.127	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 101.300%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	4332	0.262	ppbv	97
3) Chlorodifluoromethane	1.473	51	2421m	0.135	ppbv	
4) Chloromethane	1.531	50	879	0.134	ppbv #	52
9) Propene	1.483	41	1948	0.245	ppbv	95
11) Trichlorofluoromethane	1.877	101	2444	0.151	ppbv	90
13) Ethanol	1.719	45	9709	3.306	ppbv	88
15) Acetone	1.832	43	193000	12.303	ppbv	97
19) Isopropyl Alcohol	1.884	45	13192	1.350	ppbv #	1
20) Methylene Chloride	2.059	84	4115	0.664	ppbv	95
26) Hexane	2.819	57	6656	0.371	ppbv #	33
29) Chloroform	2.845	83	670600	25.819	ppbv	100
34) 2-Butanone	2.554	43	15828	0.735	ppbv	99
35) Carbon Tetrachloride	3.752	117	1066m	0.046	ppbv	
42) Bromodichloromethane	4.480	83	4194m	0.174	ppbv	

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

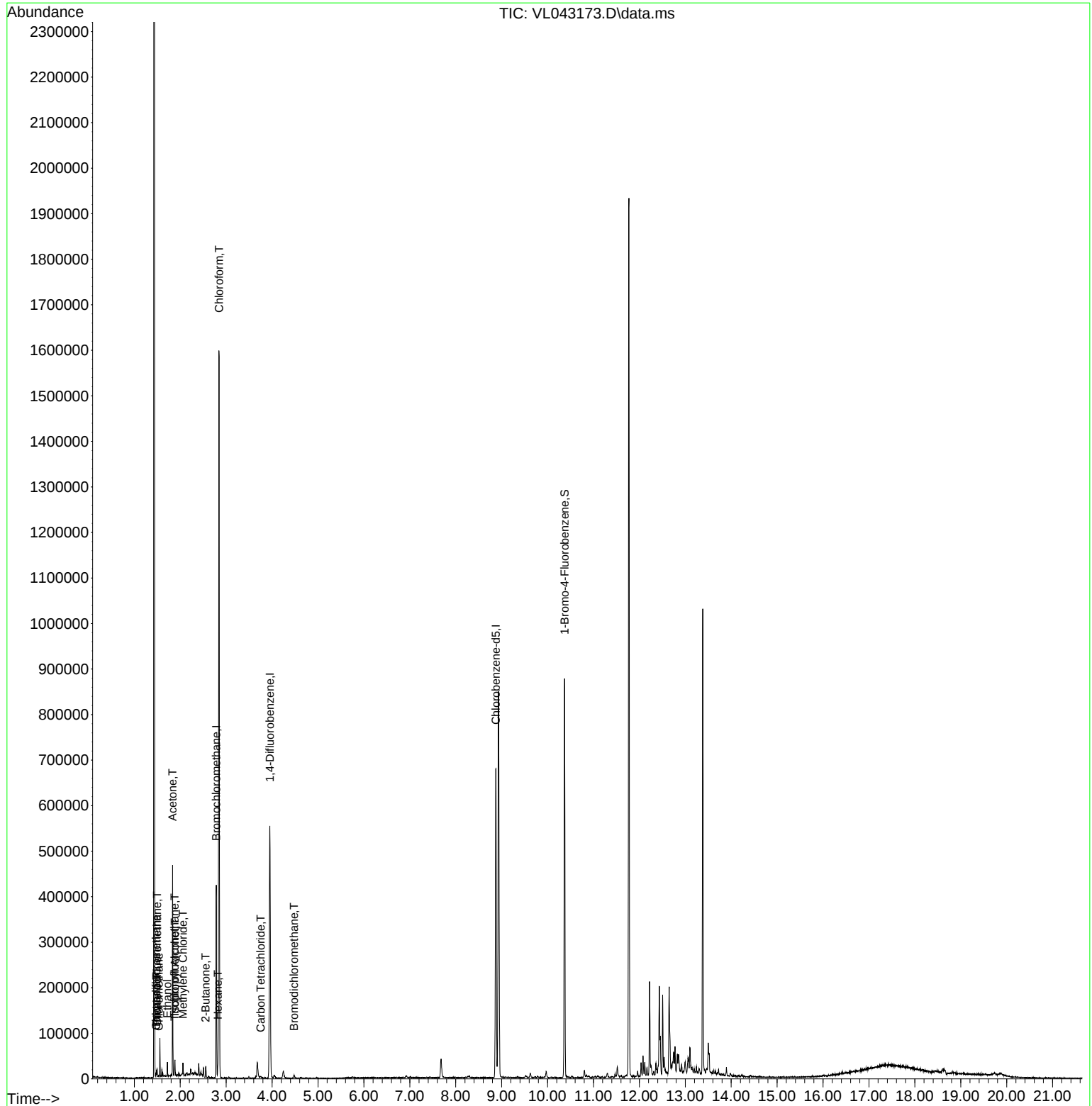
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
Data File : VL043173.D
Acq On : 06 Nov 2025 18:23
Operator : SY/MD
Sample : Q3555-04 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

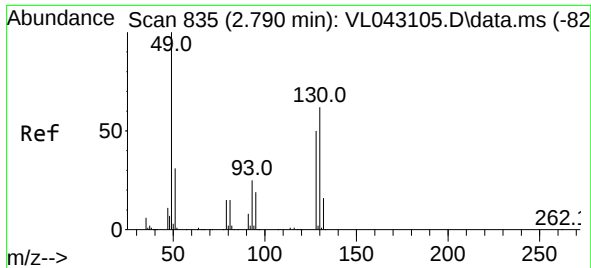
Instrument :
MSVOA_L
ClientSampleId :
151-SG-2

Quant Time: Nov 07 00:25:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
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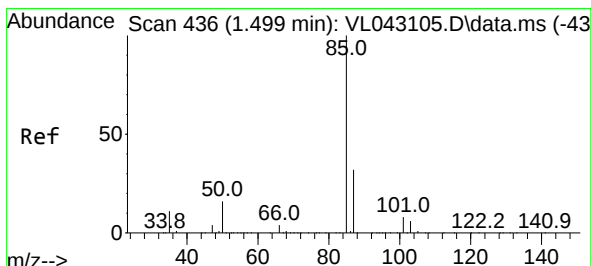
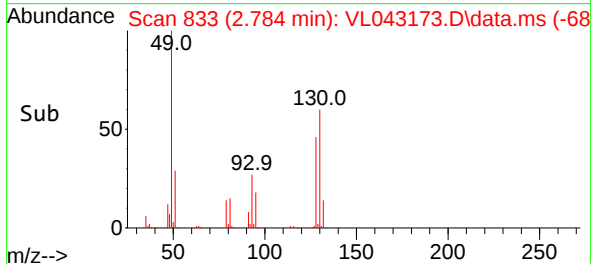
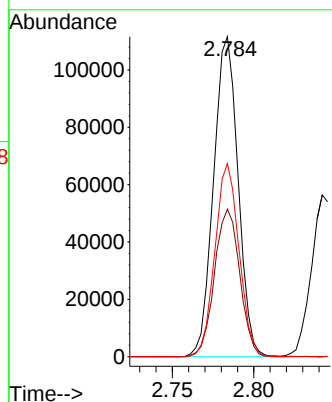
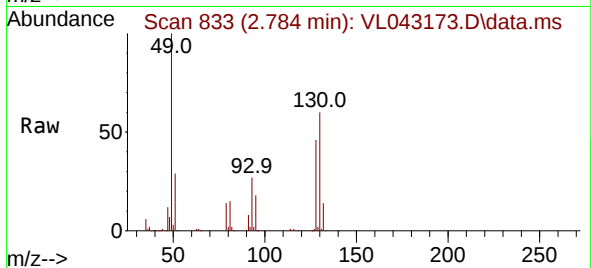
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 811
Delta R.T. -0.006 min
Lab File: VL043173.D
Acq: 06 Nov 2025 18:23

Instrument :
MSVOA_L
ClientSampleId :
151-SG-2

Tgt Ion: 49 Resp: 11638
Ion Ratio Lower Upper
49 100
128 47.6 24.4 73.4
130 59.4 31.0 93.0

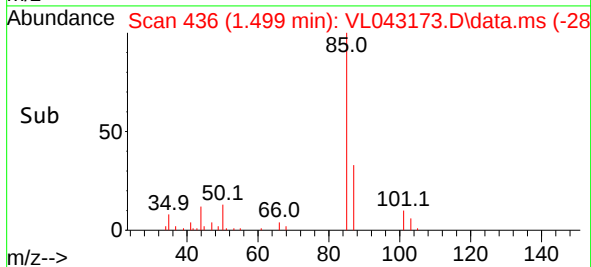
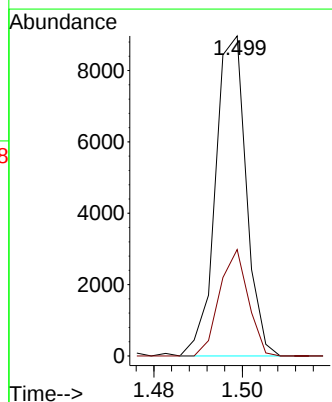
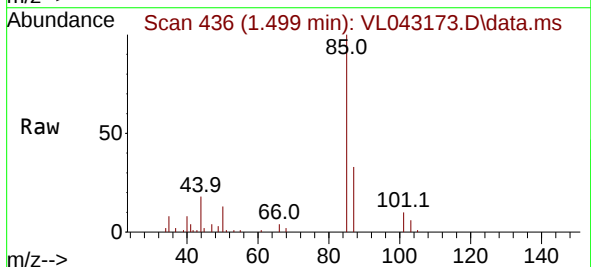
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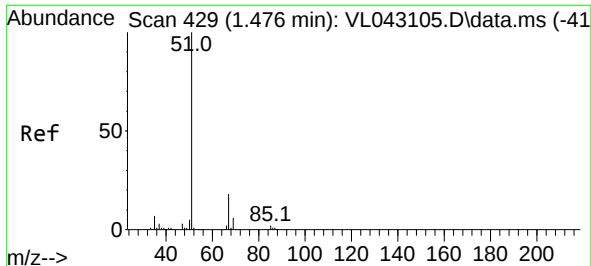
Reviewed By :Semsettin Yesilyurt 11/10/2025
Supervised By :Mahesh Dadoda 11/10/2025



#2
Dichlorodifluoromethane
Concen: 0.262 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043173.D
Acq: 06 Nov 2025 18:23

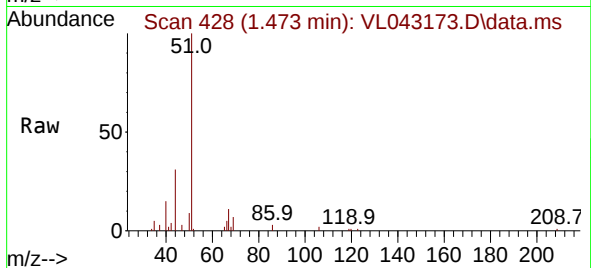
Tgt Ion: 85 Resp: 4332
Ion Ratio Lower Upper
85 100
87 33.3 25.3 37.9





#3
Chlorodifluoromethane
Concen: 0.135 ppbv m
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL043173.D
Acq: 06 Nov 2025 18:23

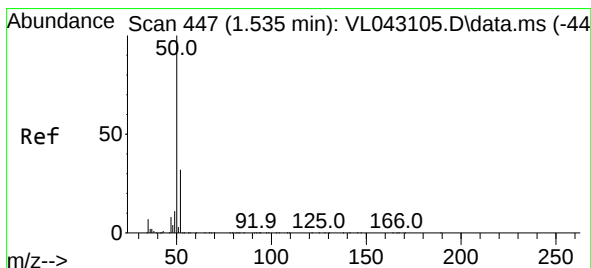
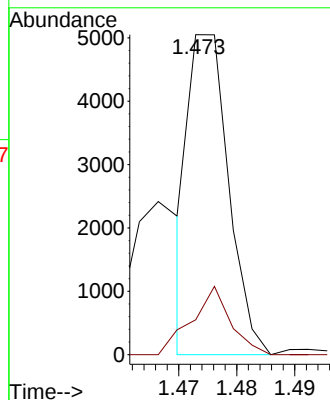
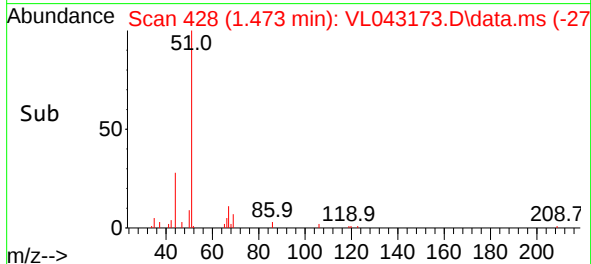
Instrument :
MSVOA_L
ClientSampleId :
151-SG-2



Tgt Ion: 51 Resp: 242
Ion Ratio Lower Upper
51 100
67 1.5 15.1 22.7

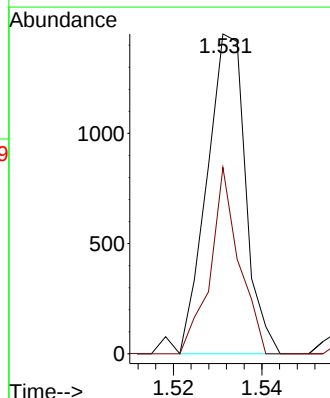
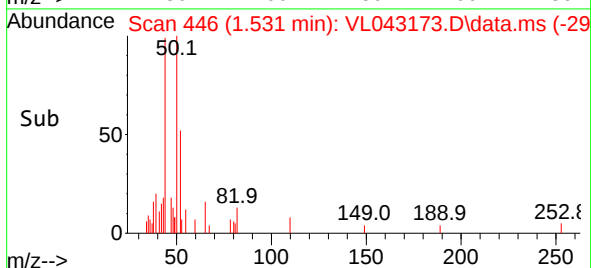
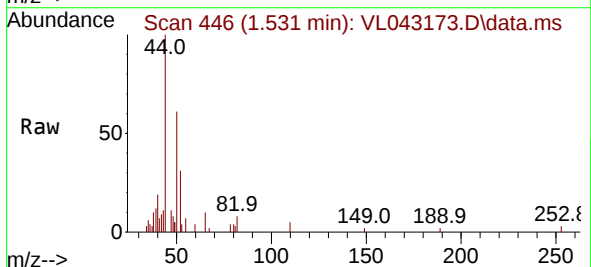
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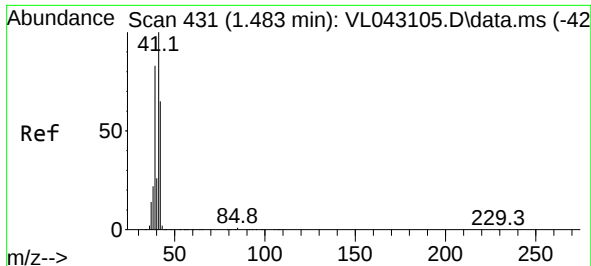
Reviewed By :Semsettin Yesilyurt 11/10/2025
Supervised By :Mahesh Dadoda 11/10/2025



#4
Chloromethane
Concen: 0.134 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.003 min
Lab File: VL043173.D
Acq: 06 Nov 2025 18:23

Tgt Ion: 50 Resp: 879
Ion Ratio Lower Upper
50 100
52 58.3 25.2 37.8





#9

Propene

Concen: 0.245 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL043173.D

Acq: 06 Nov 2025 18:23

Instrument :

MSVOA_L

ClientSampleId :

151-SG-2

Tgt Ion: 41 Resp: 1948

Ion Ratio Lower Upper

41 100

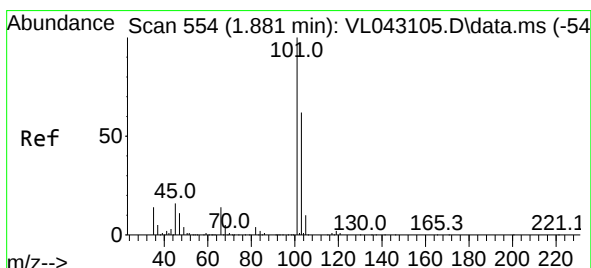
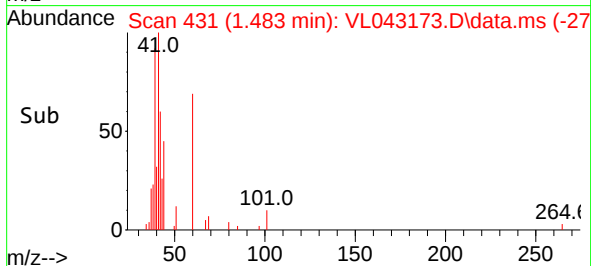
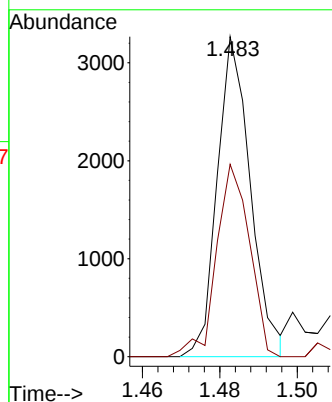
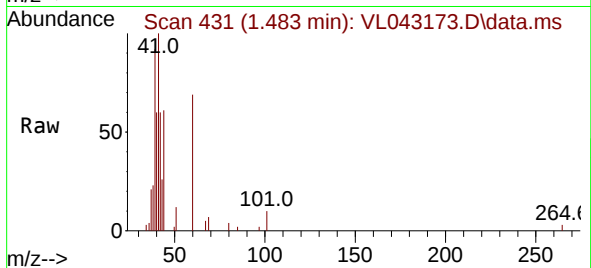
42 64.5 55.1 82.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/10/2025

Supervised By :Mahesh Dadoda 11/10/2025



#11

Trichlorofluoromethane

Concen: 0.151 ppbv

RT: 1.877 min Scan# 553

Delta R.T. -0.003 min

Lab File: VL043173.D

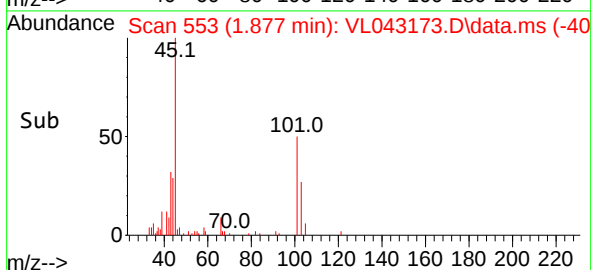
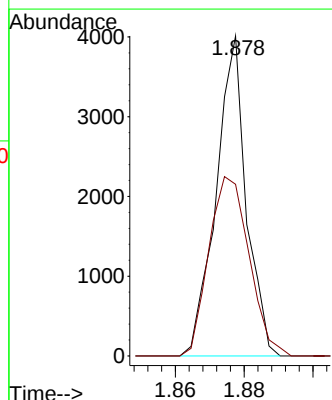
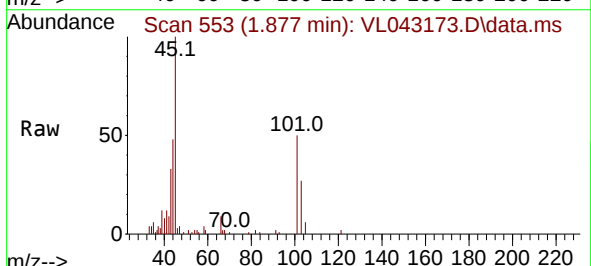
Acq: 06 Nov 2025 18:23

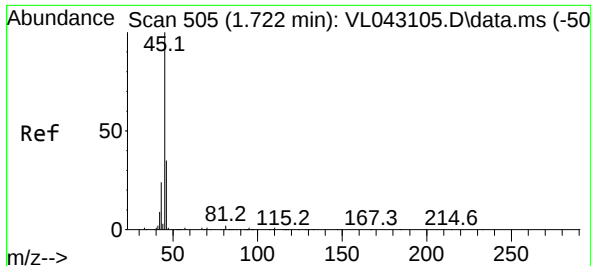
Tgt Ion:101 Resp: 2444

Ion Ratio Lower Upper

101 100

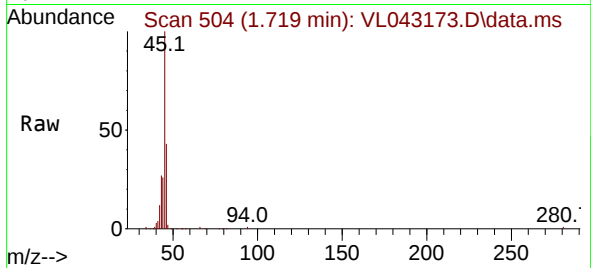
103 53.6 49.3 73.9





#13
Ethanol
Concen: 3.306 ppbv
RT: 1.719 min Scan# 505
Delta R.T. -0.003 min
Lab File: VL043173.D
Acq: 06 Nov 2025 18:23

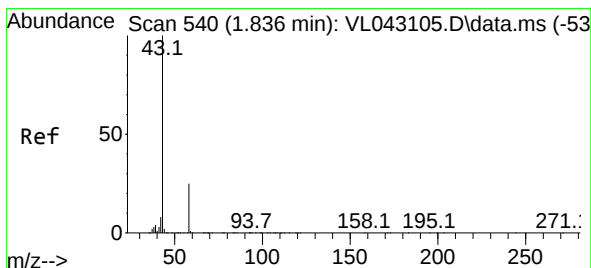
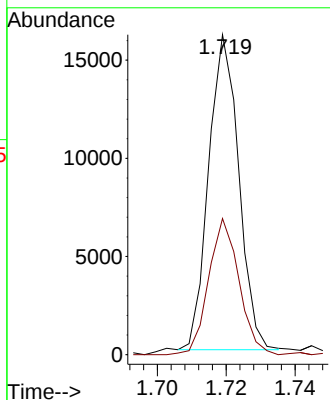
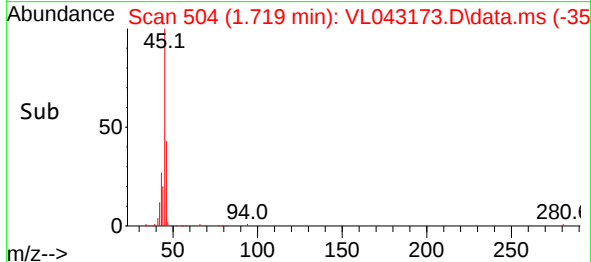
Instrument :
MSVOA_L
ClientSampleId :
151-SG-2



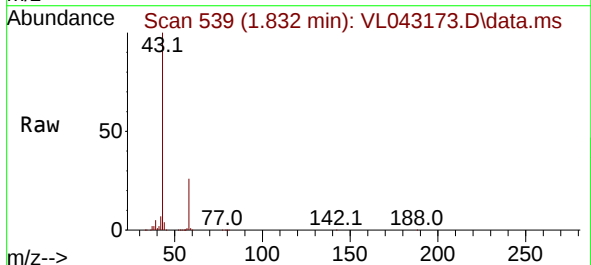
Tgt Ion: 45 Resp: 9709
Ion Ratio Lower Upper
45 100
46 43.8 14.7 58.9

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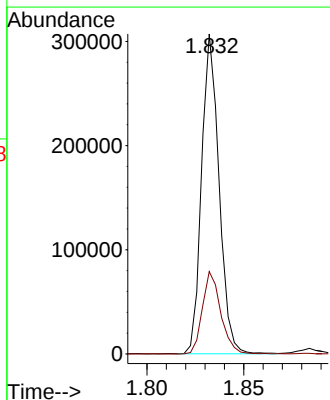
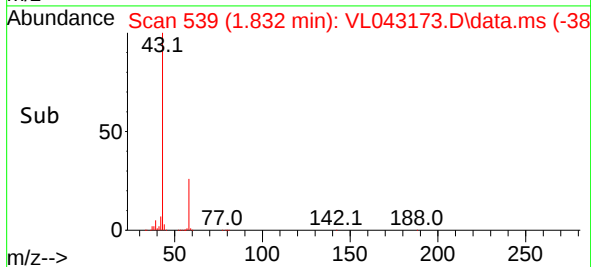
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Supervised By :Mahesh Dadoda 11/10/2025

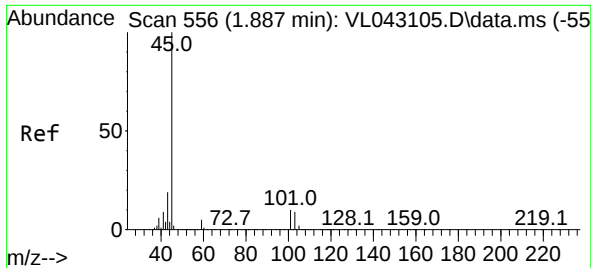


#15
Acetone
Concen: 12.303 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL043173.D
Acq: 06 Nov 2025 18:23



Tgt Ion: 43 Resp: 193000
Ion Ratio Lower Upper
43 100
58 27.4 20.8 31.2





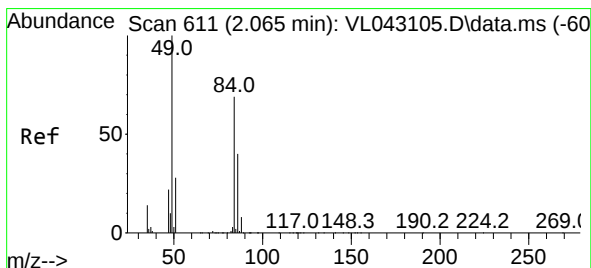
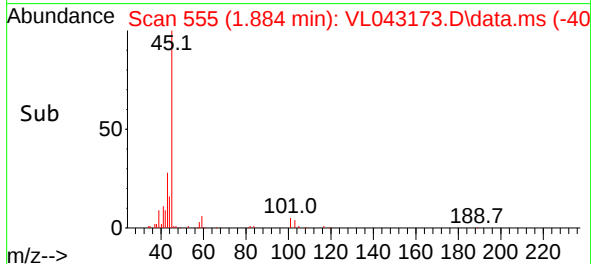
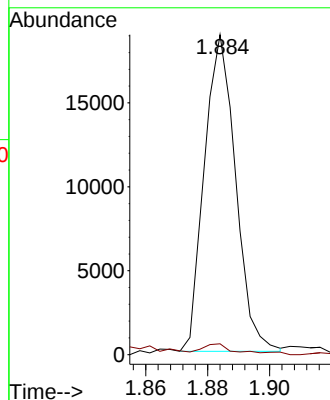
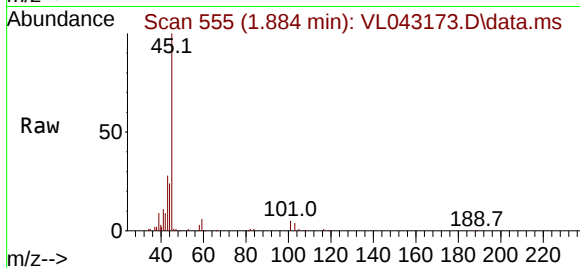
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Isopropyl Alcohol
Concen: 1.350 ppbv
RT: 1.884 min Scan# 519
Delta R.T. -0.003 min
Lab File: VL043173.D
Acq: 06 Nov 2025 18:23

Instrument :
MSVOA_L
ClientSampleId :
151-SG-2

Tgt Ion: 45 Resp: 1319
Ion Ratio Lower Upper
45 100
58 401.2 31.3 46.9

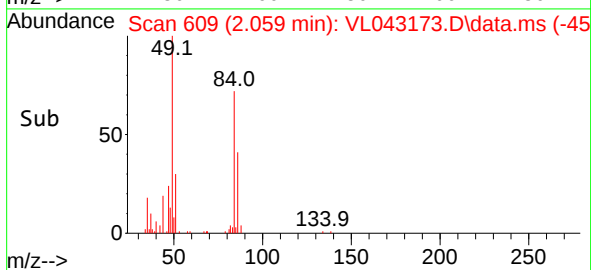
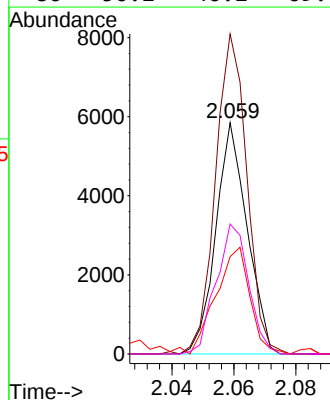
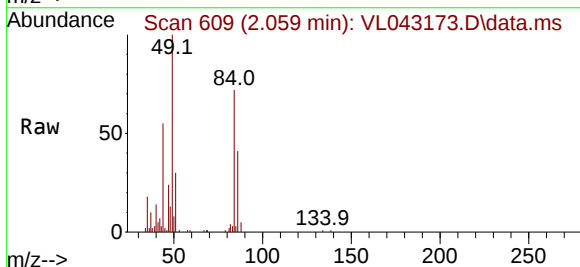
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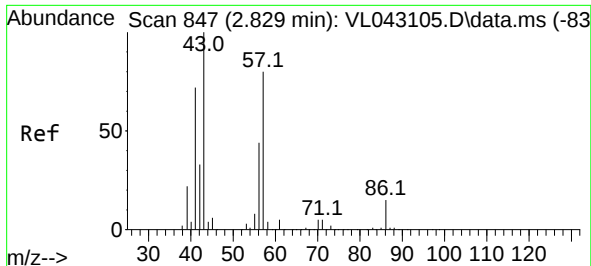
Reviewed By :Semsettin Yesilyurt 11/10/2025
Supervised By :Mahesh Dadoda 11/10/2025



#20
Methylene Chloride
Concen: 0.664 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.007 min
Lab File: VL043173.D
Acq: 06 Nov 2025 18:23

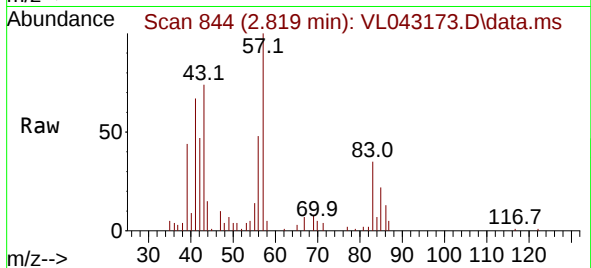
Tgt Ion: 84 Resp: 4115
Ion Ratio Lower Upper
84 100
49 138.4 116.6 175.0
51 40.8 34.8 52.2
86 56.2 46.2 69.4





#26
Hexane
Concen: 0.371 ppbv
RT: 2.819 min Scan# 847
Delta R.T. -0.010 min
Lab File: VL043173.D
Acq: 06 Nov 2025 18:23

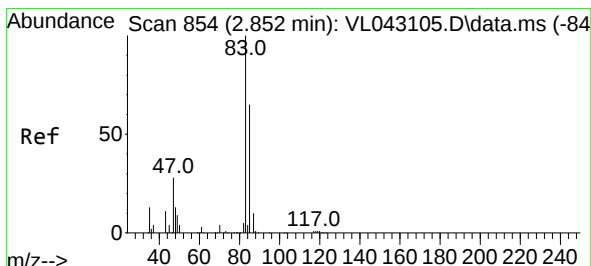
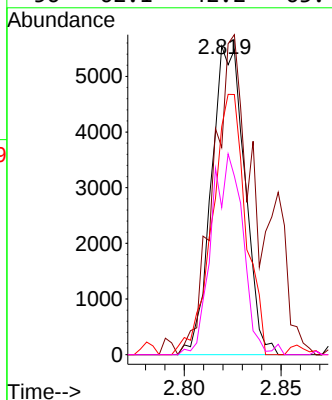
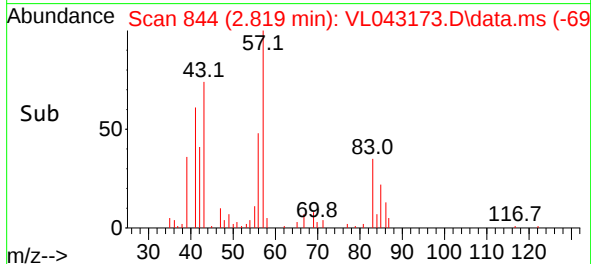
Instrument : MSVOA_L
ClientSampleId : 151-SG-2



Tgt Ion: 57 Resp: 6650
Ion Ratio Lower Upper
57 100
41 143.5 71.4 107.0
43 87.5 178.5 267.7
56 62.1 42.2 63.4

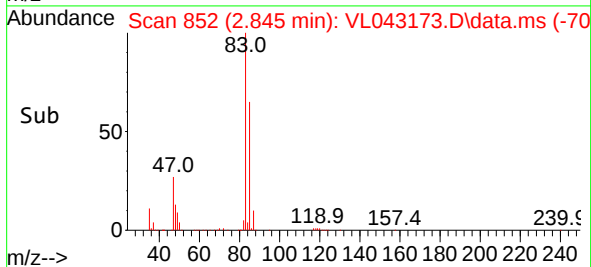
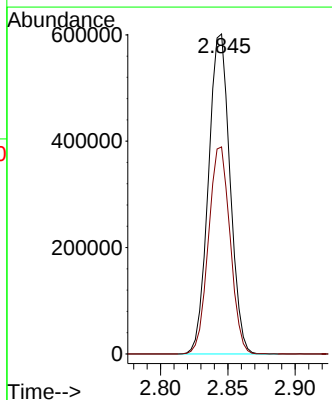
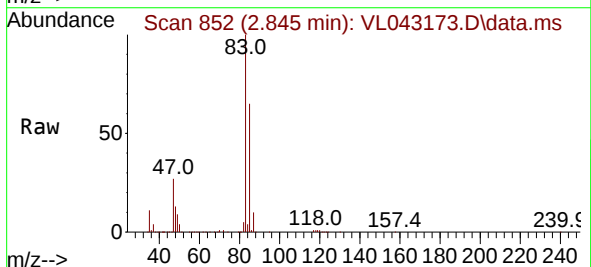
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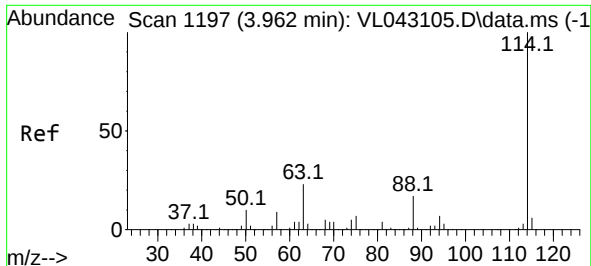
Reviewed By :Semsettin Yesilyurt 11/10/2025
Supervised By :Mahesh Dadoda 11/10/2025



#29
Chloroform
Concen: 25.819 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.007 min
Lab File: VL043173.D
Acq: 06 Nov 2025 18:23

Tgt Ion: 83 Resp: 670600
Ion Ratio Lower Upper
83 100
85 64.7 51.8 77.6





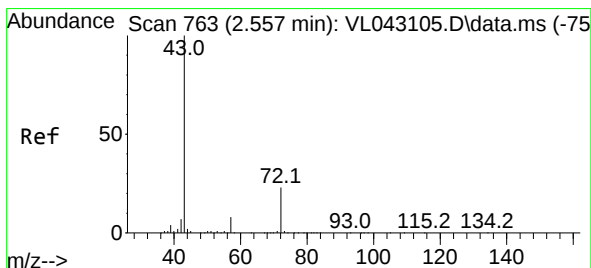
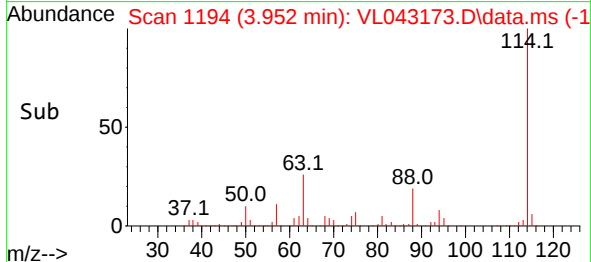
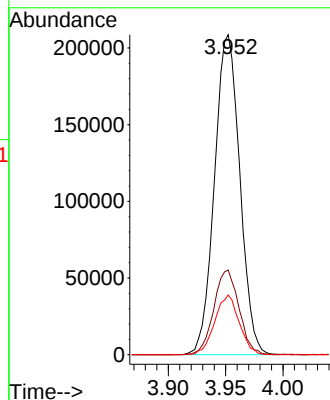
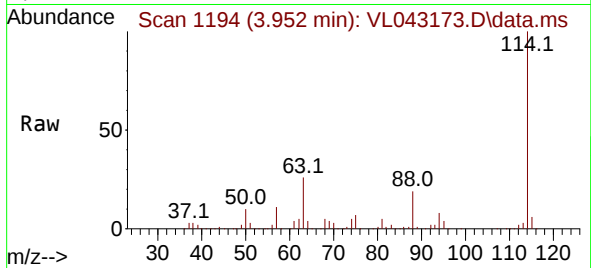
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1197
Delta R.T. -0.010 min
Lab File: VL043173.D
Acq: 06 Nov 2025 18:23

Instrument :
MSVOA_L
ClientSampleId :
151-SG-2

Tgt Ion:114 Resp: 320264
Ion Ratio Lower Upper
114 100
63 26.3 19.3 28.9
88 18.0 13.9 20.9

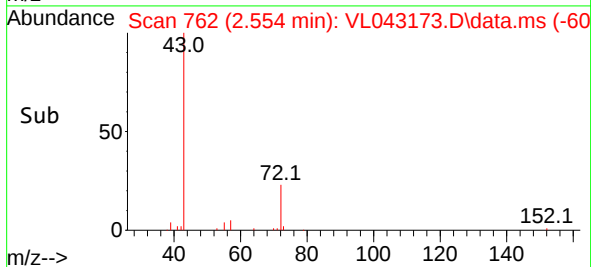
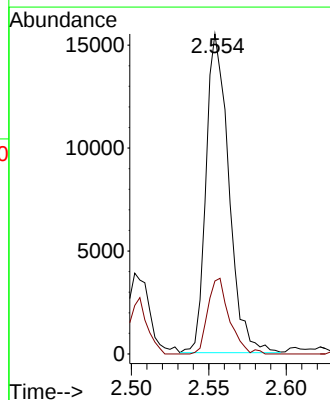
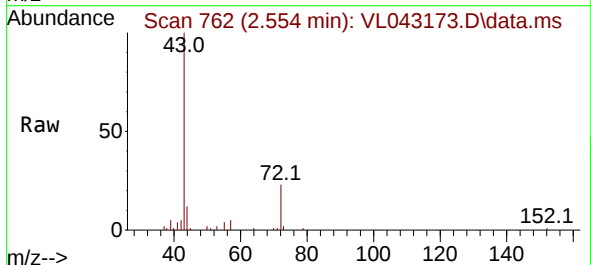
Manual Integrations
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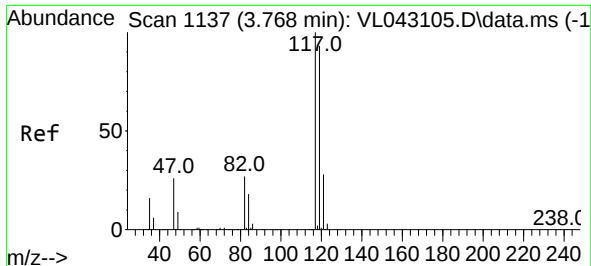
Reviewed By :Semsettin Yesilyurt 11/10/2025
Supervised By :Mahesh Dadoda 11/10/2025



#34
2-Butanone
Concen: 0.735 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL043173.D
Acq: 06 Nov 2025 18:23

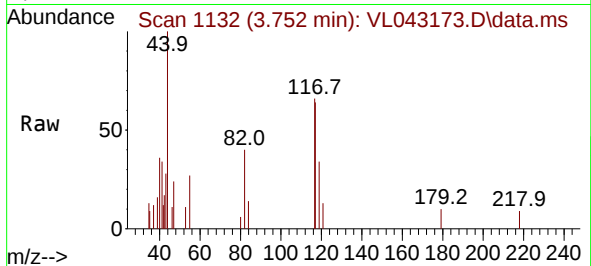
Tgt Ion: 43 Resp: 15828
Ion Ratio Lower Upper
43 100
72 22.4 18.4 27.6





#35
Carbon Tetrachloride
Concen: 0.046 ppbv m
RT: 3.752 min Scan# 1137
Delta R.T. -0.016 min
Lab File: VL043173.D
Acq: 06 Nov 2025 18:23

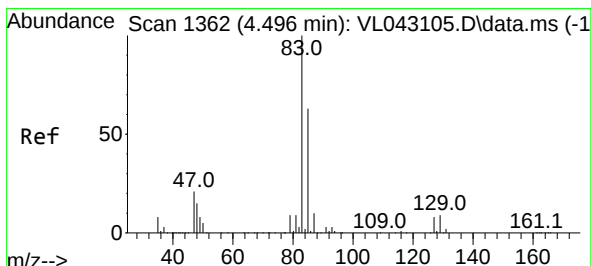
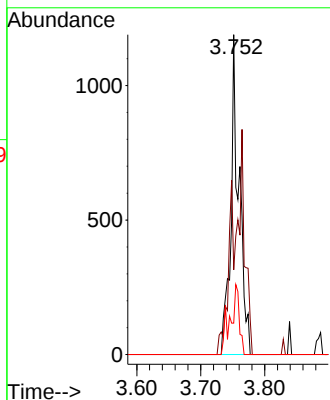
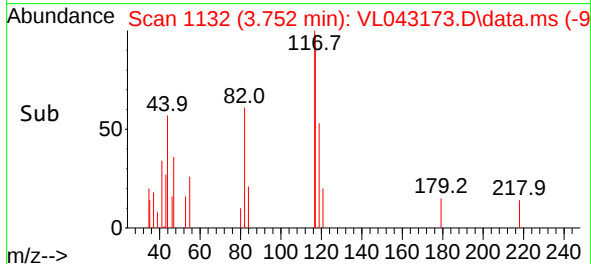
Instrument :
MSVOA_L
ClientSampleId :
151-SG-2



Tgt Ion: 117 Resp: 1060
Ion Ratio Lower Upper
117 100
119 52.5 74.1 111.1
121 19.5 22.2 33.2

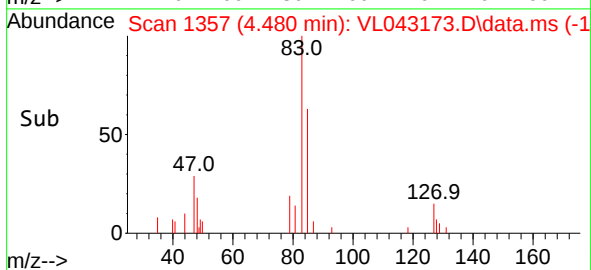
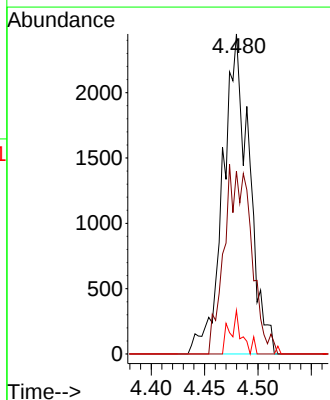
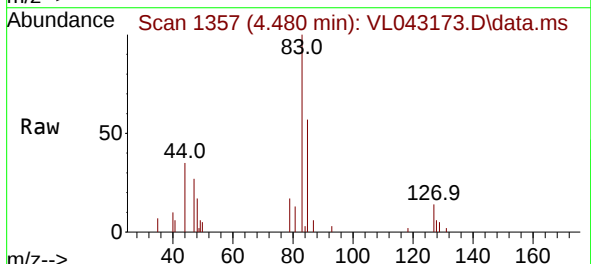
Manual Integrations
APPROVED

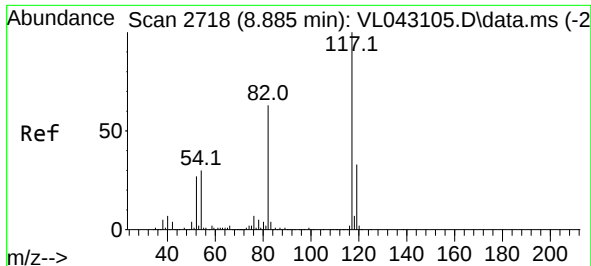
Reviewed By :Semsettin Yesilyurt 11/10/2025
Supervised By :Mahesh Dadoda 11/10/2025



#42
Bromodichloromethane
Concen: 0.174 ppbv m
RT: 4.480 min Scan# 1357
Delta R.T. -0.016 min
Lab File: VL043173.D
Acq: 06 Nov 2025 18:23

Tgt Ion: 83 Resp: 4194
Ion Ratio Lower Upper
83 100
85 57.1 50.6 75.8
127 13.6 6.3 9.5





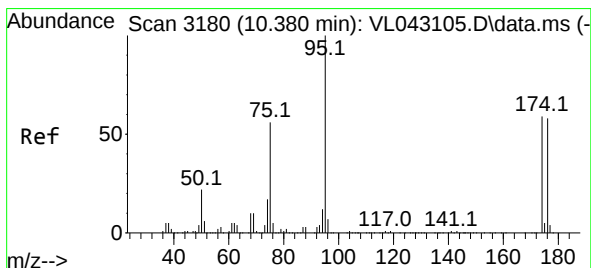
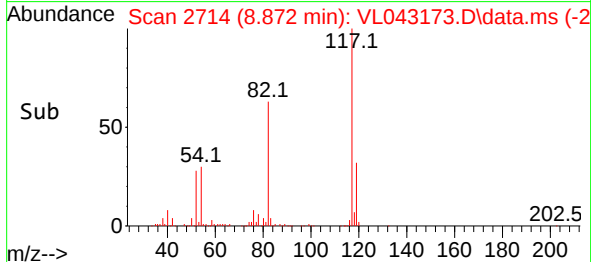
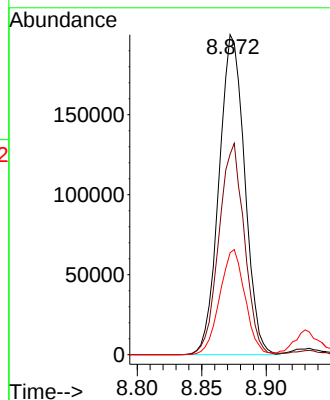
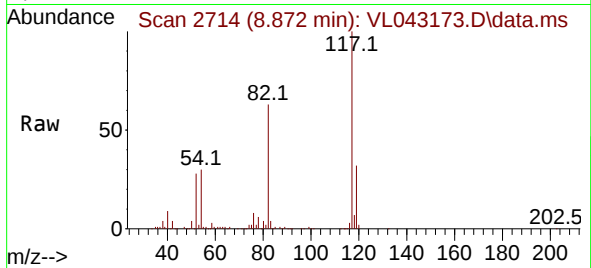
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL043173.D
Acq: 06 Nov 2025 18:23

Instrument :
MSVOA_1
ClientSampleId :
151-SG-2

Tgt Ion:117 Resp: 276449
Ion Ratio Lower Upper
117 100
82 65.6 53.8 80.8
119 32.5 25.4 38.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/10/2025
Supervised By :Mahesh Dadoda 11/10/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.127 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.010 min
Lab File: VL043173.D
Acq: 06 Nov 2025 18:23

Tgt Ion: 95 Resp: 217604
Ion Ratio Lower Upper
95 100
174 64.5 48.3 72.5
175 4.5 3.8 5.8

