

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043170.D
 Acq On : 06 Nov 2025 16:31
 Operator : SY/MD
 Sample : Q3557-04DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 141-SG-1DL

Quant Time: Nov 07 00:24:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

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

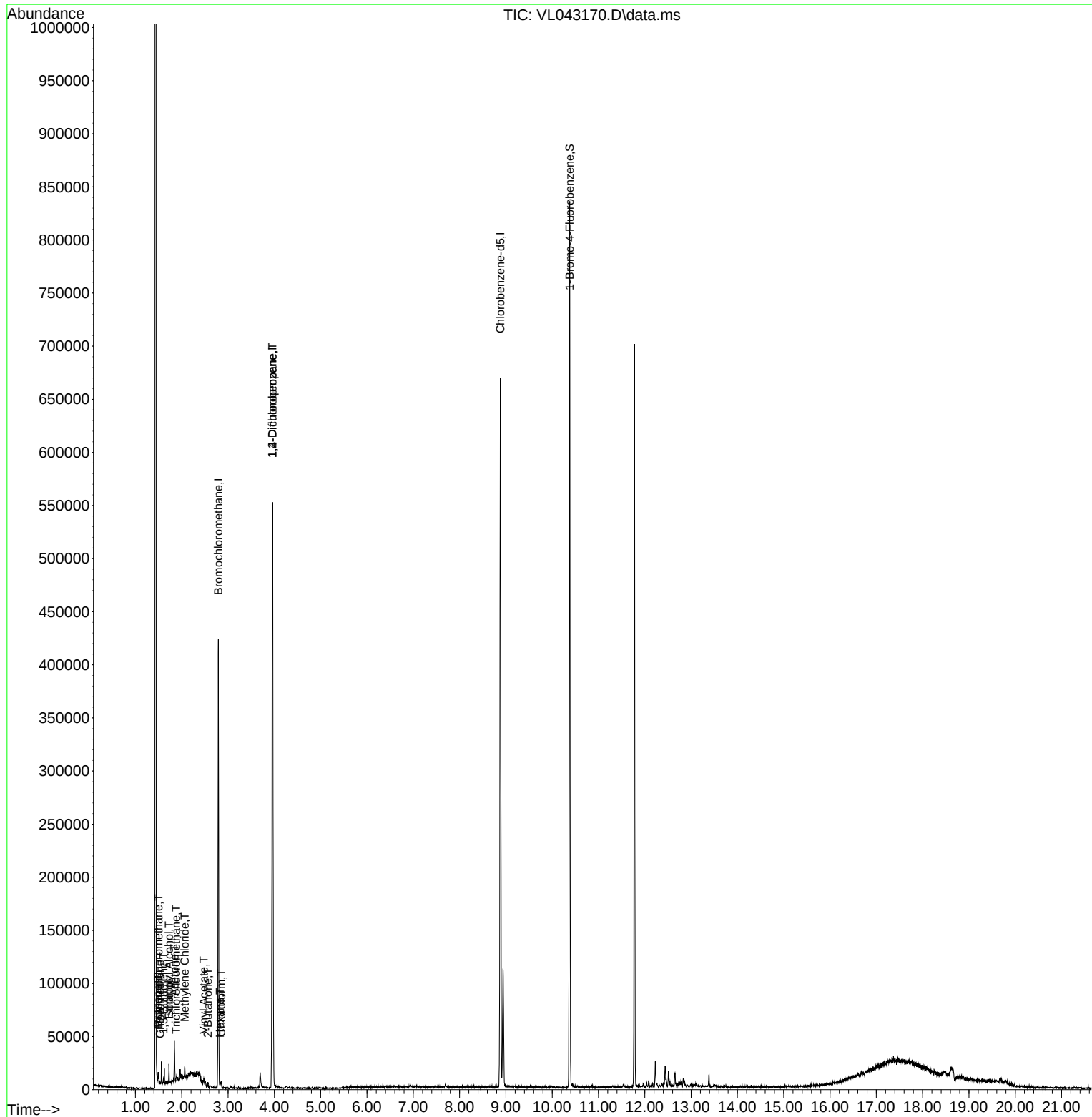
Internal Standards						
1) Bromochloromethane	2.791	49	113282	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	319474	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	263917	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	204194	9.954	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2071	0.129	ppbv	96
4) Chloromethane	1.532	50	296	0.046	ppbv #	43
9) Propene	1.489	41	1068	0.138	ppbv	87
11) Trichlorofluoromethane	1.878	101	615	0.039	ppbv #	49
13) Ethanol	1.722	45	5216	1.825	ppbv #	38
15) Acetone	1.839	43	16010	1.049	ppbv	98
16) 1,3-Butadiene	1.603	39	575	0.079	ppbv #	27
19) Isopropyl Alcohol	1.722	45	5216	0.548	ppbv #	54
20) Methylene Chloride	2.066	84	1666	0.276	ppbv #	84
23) Vinyl Acetate	2.477	43	1065	0.048	ppbv #	1
26) Hexane	2.826	57	1105	0.063	ppbv #	44
29) Chloroform	2.852	83	2095	0.083	ppbv #	81
34) 2-Butanone	2.564	43	2328	0.108	ppbv	91
39) 1,2-Dichloropropane	3.959	63	82781	7.525	ppbv #	27

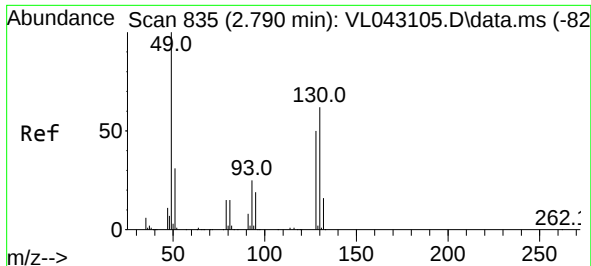
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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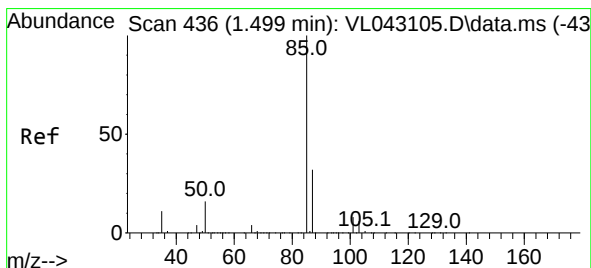
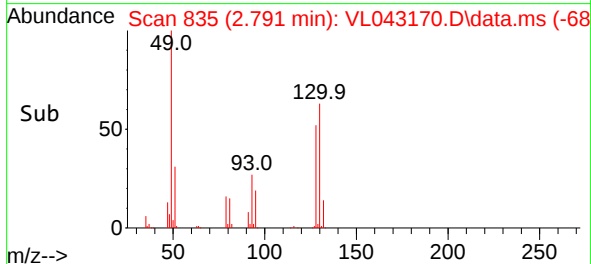
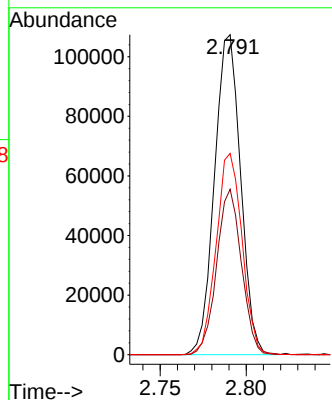
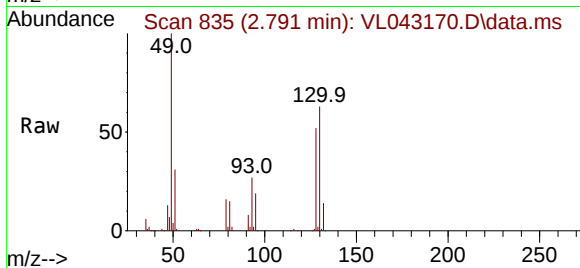




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 81
Delta R.T. 0.001 min
Lab File: VL043170.D
Acq: 06 Nov 2025 16:31

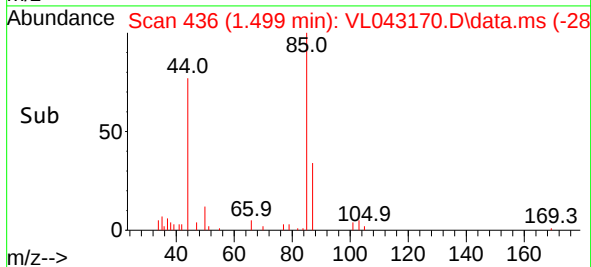
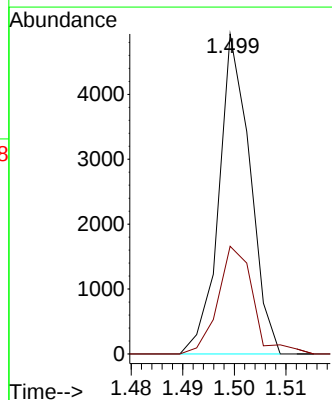
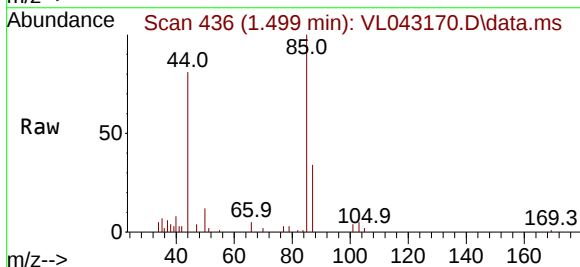
Instrument :
MSVOA_L
ClientSampleId :
141-SG-1DL

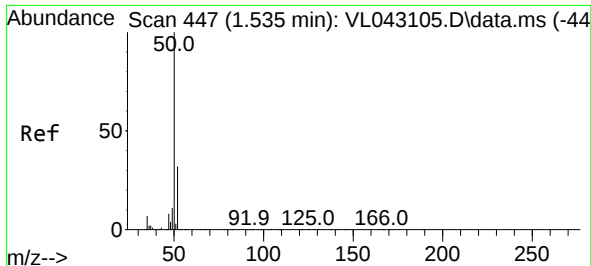
Tgt Ion: 49 Resp: 113282
Ion Ratio Lower Upper
49 100
128 49.1 24.4 73.4
130 62.5 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 0.129 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL043170.D
Acq: 06 Nov 2025 16:31

Tgt Ion: 85 Resp: 2071
Ion Ratio Lower Upper
85 100
87 33.7 25.3 37.9

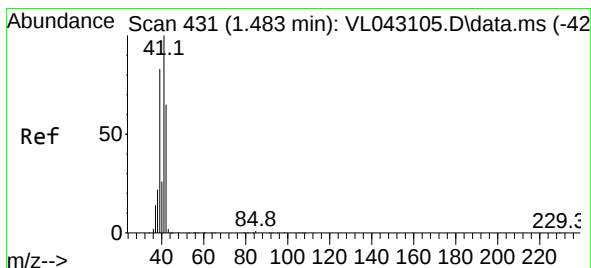
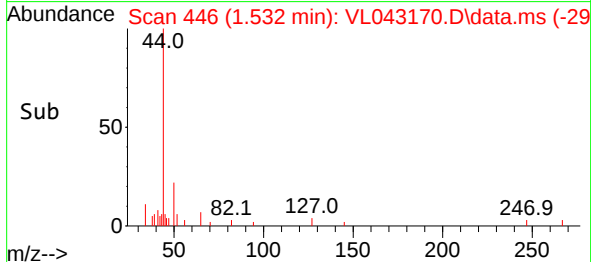
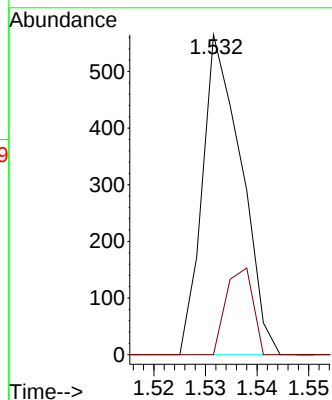
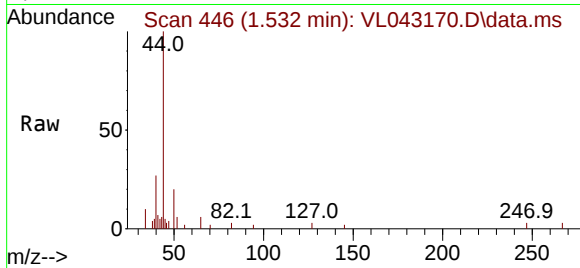




#4
Chloromethane
Concen: 0.046 ppbv
RT: 1.532 min Scan# 446
Delta R.T. -0.003 min
Lab File: VL043170.D
Acq: 06 Nov 2025 16:31

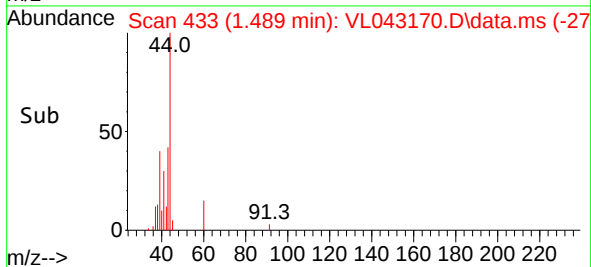
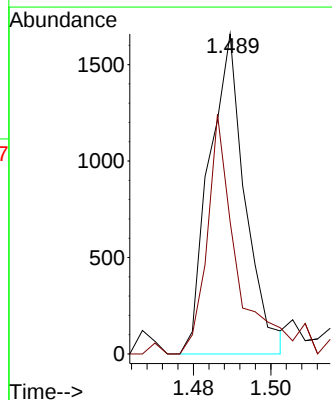
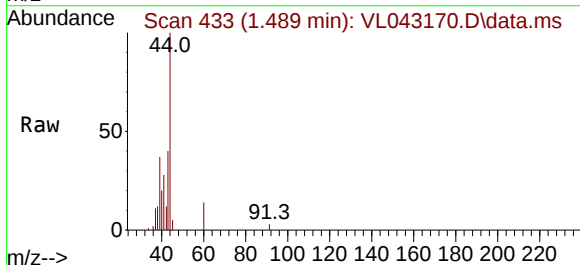
Instrument :
MSVOA_L
ClientSampleId :
141-SG-1DL

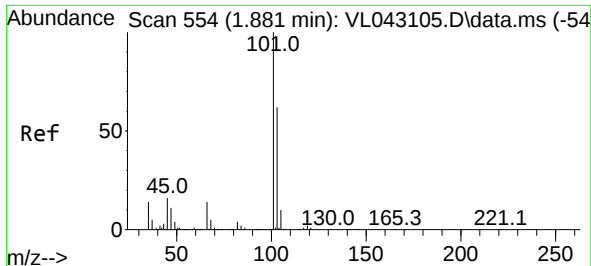
Tgt Ion: 50 Resp: 296
Ion Ratio Lower Upper
50 100
52 0.0 25.2 37.8#



#9
Propene
Concen: 0.138 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.007 min
Lab File: VL043170.D
Acq: 06 Nov 2025 16:31

Tgt Ion: 41 Resp: 1068
Ion Ratio Lower Upper
41 100
42 79.9 55.1 82.7

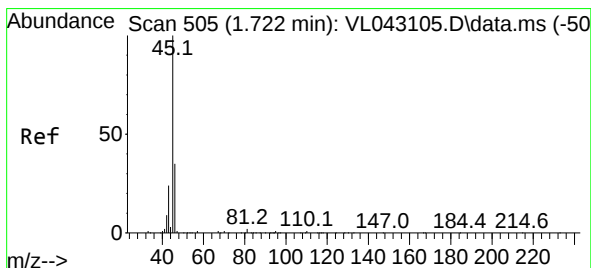
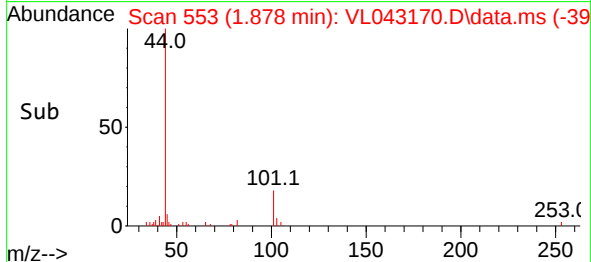
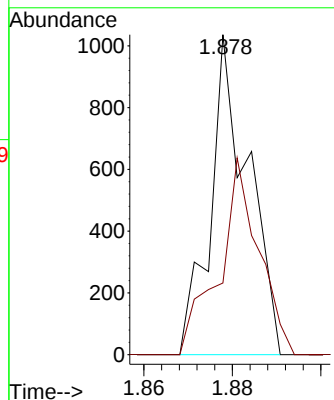
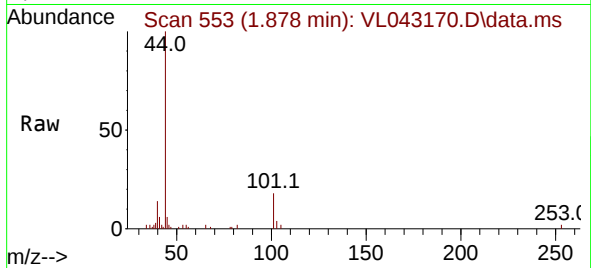




#11
 Trichlorofluoromethane
 Concen: 0.039 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL043170.D
 Acq: 06 Nov 2025 16:31

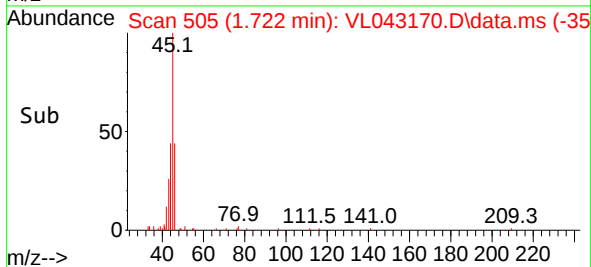
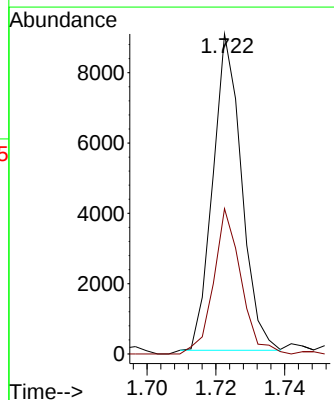
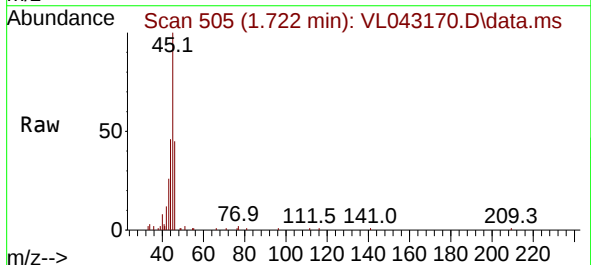
Instrument :
 MSVOA_L
 ClientSampleId :
 141-SG-1DL

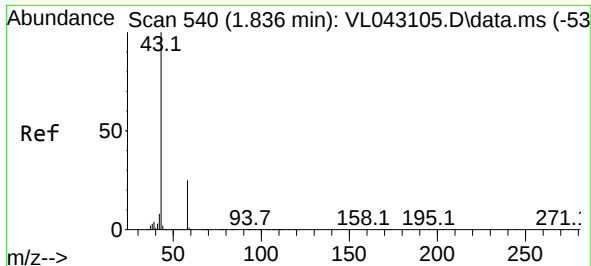
Tgt Ion:101 Resp: 615
 Ion Ratio Lower Upper
 101 100
 103 22.4 49.3 73.9#



#13
 Ethanol
 Concen: 1.825 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. 0.000 min
 Lab File: VL043170.D
 Acq: 06 Nov 2025 16:31

Tgt Ion: 45 Resp: 5216
 Ion Ratio Lower Upper
 45 100
 46 0.0 14.7 58.9#

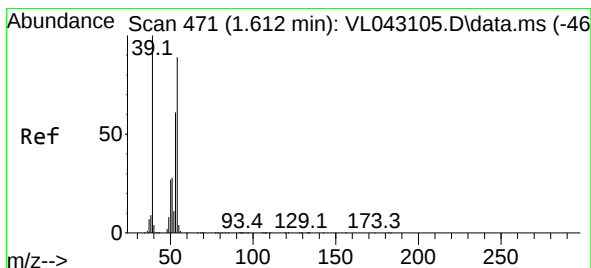
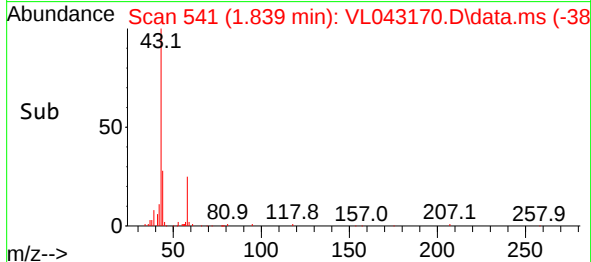
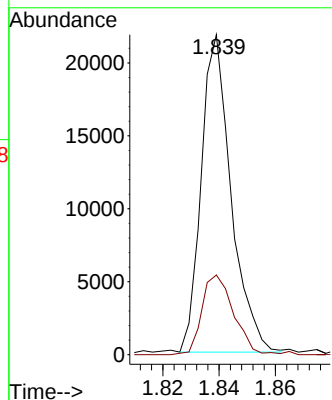
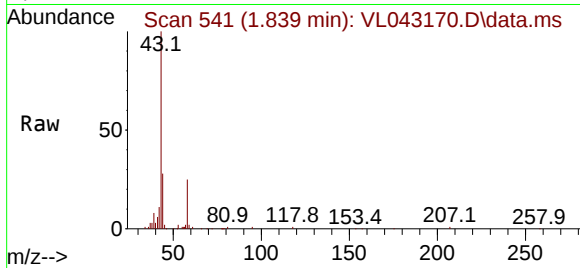




#15
Acetone
Concen: 1.049 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043170.D
Acq: 06 Nov 2025 16:31

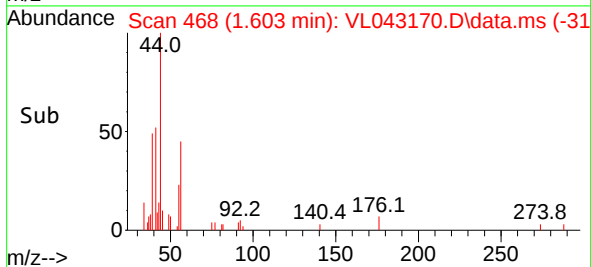
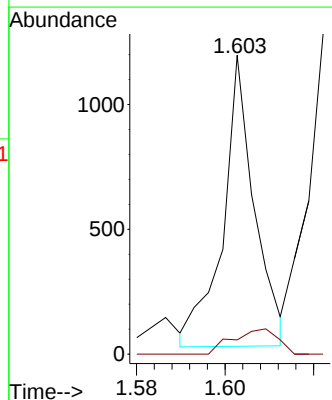
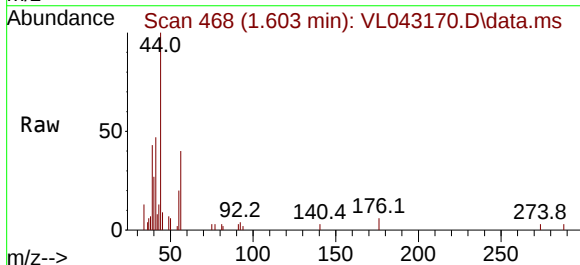
Instrument :
MSVOA_L
ClientSampleId :
141-SG-1DL

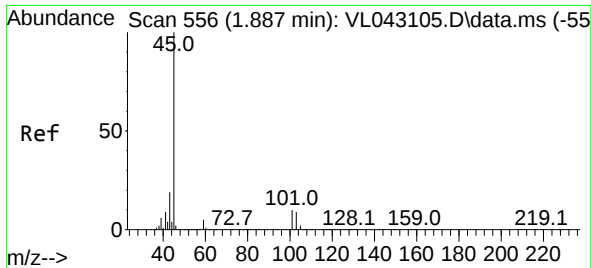
Tgt Ion: 43 Resp: 16010
Ion Ratio Lower Upper
43 100
58 27.0 20.8 31.2



#16
1,3-Butadiene
Concen: 0.079 ppbv
RT: 1.603 min Scan# 468
Delta R.T. -0.010 min
Lab File: VL043170.D
Acq: 06 Nov 2025 16:31

Tgt Ion: 39 Resp: 575
Ion Ratio Lower Upper
39 100
54 12.3 59.0 88.4#

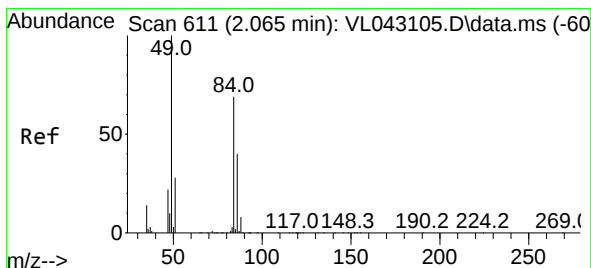
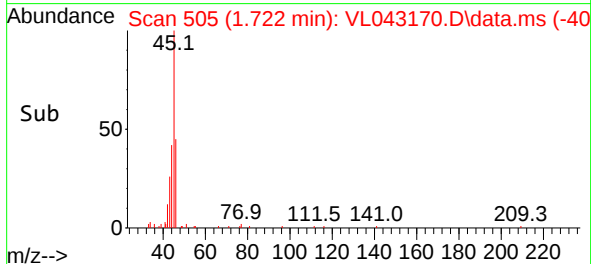
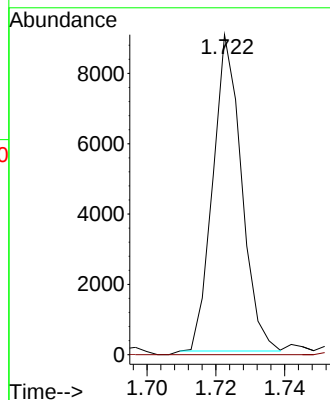
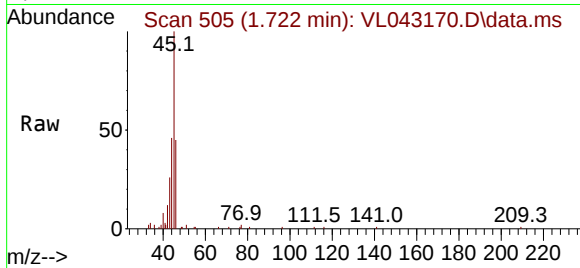




#19
Isopropyl Alcohol
Concen: 0.548 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.165 min
Lab File: VL043170.D
Acq: 06 Nov 2025 16:31

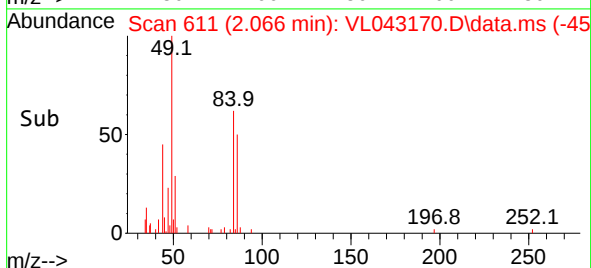
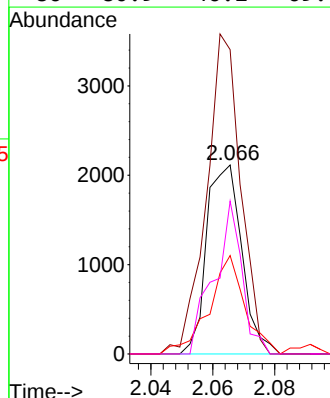
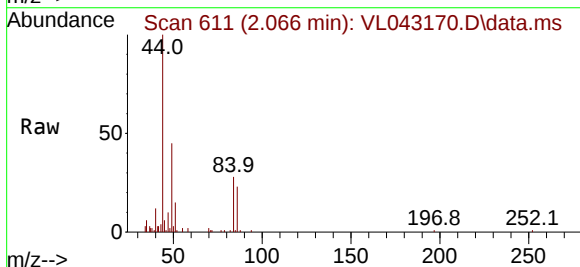
Instrument :
MSVOA_L
ClientSampleId :
141-SG-1DL

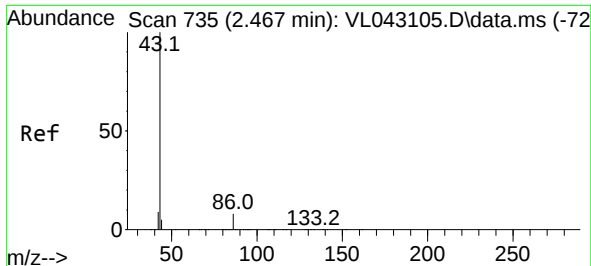
Tgt Ion: 45 Resp: 5216
Ion Ratio Lower Upper
45 100
58 10.9 31.3 46.9#



#20
Methylene Chloride
Concen: 0.276 ppbv
RT: 2.066 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL043170.D
Acq: 06 Nov 2025 16:31

Tgt Ion: 84 Resp: 1666
Ion Ratio Lower Upper
84 100
49 158.6 116.6 175.0
51 52.1 34.8 52.2
86 80.9 46.2 69.4#

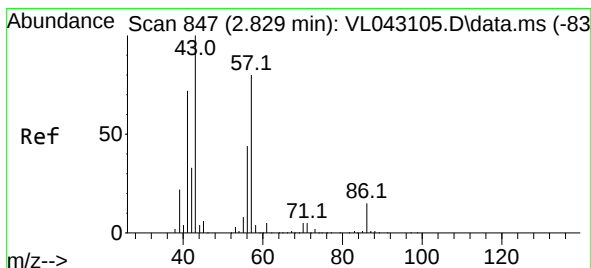
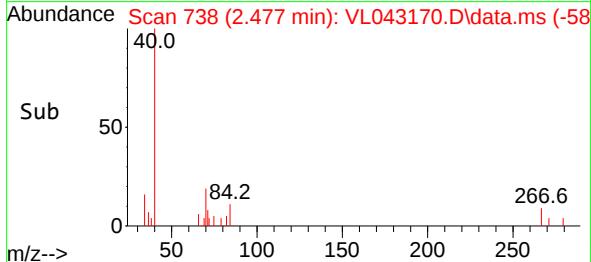
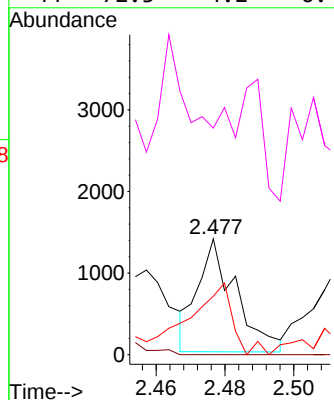
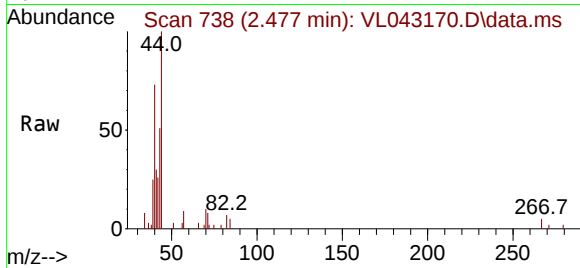




#23
 Vinyl Acetate
 Concen: 0.048 ppbv
 RT: 2.477 min Scan# 71
 Delta R.T. 0.010 min
 Lab File: VL043170.D
 Acq: 06 Nov 2025 16:31

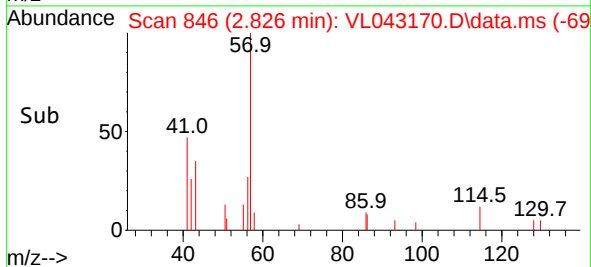
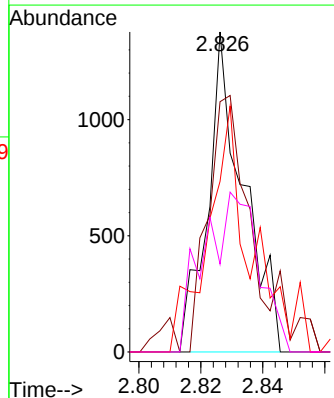
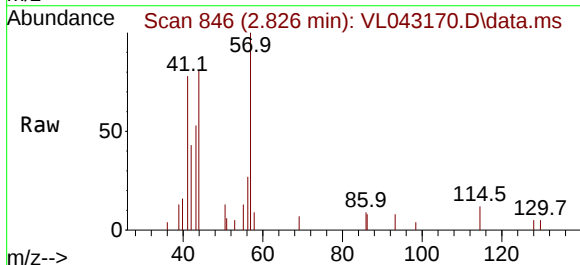
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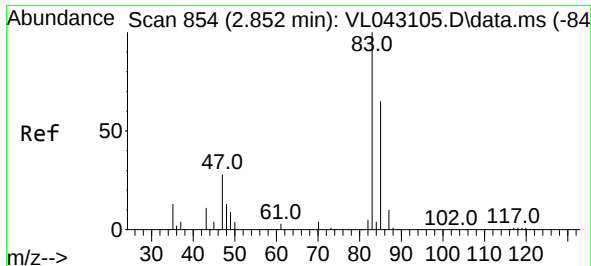
Tgt Ion:	43	Resp:	1065
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.2#
42	47.9	7.6	11.4#
44	72.3	4.2	6.4#



#26
 Hexane
 Concen: 0.063 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. -0.003 min
 Lab File: VL043170.D
 Acq: 06 Nov 2025 16:31

Tgt Ion:	57	Resp:	1105
Ion	Ratio	Lower	Upper
57	100		
41	105.3	71.4	107.0
43	97.7	178.5	267.7#
56	76.6	42.2	63.4#





#29

Chloroform

Concen: 0.083 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL043170.D

Acq: 06 Nov 2025 16:31

Instrument :

MSVOA_L

ClientSampleId :

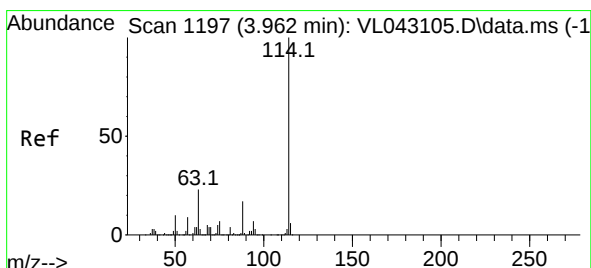
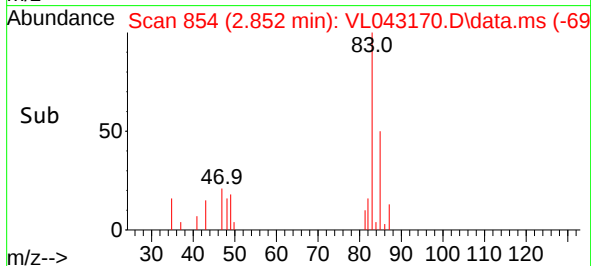
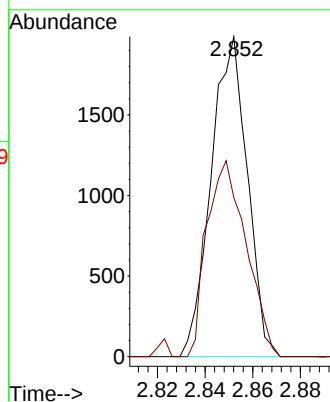
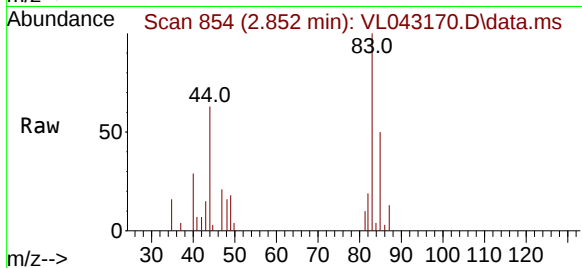
141-SG-1DL

Tgt Ion: 83 Resp: 2095

Ion Ratio Lower Upper

83 100

85 49.7 51.8 77.6#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.003 min

Lab File: VL043170.D

Acq: 06 Nov 2025 16:31

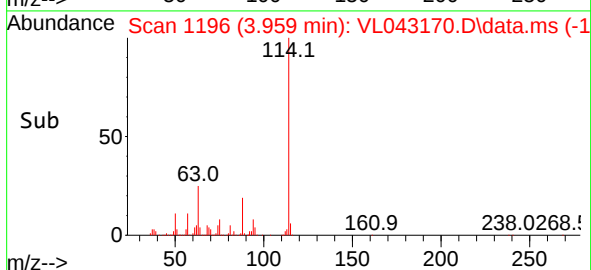
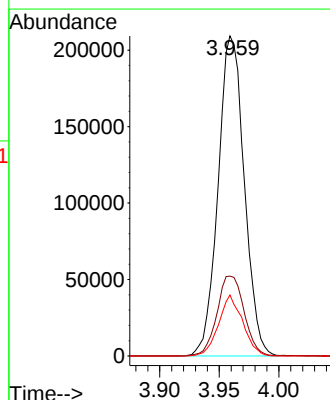
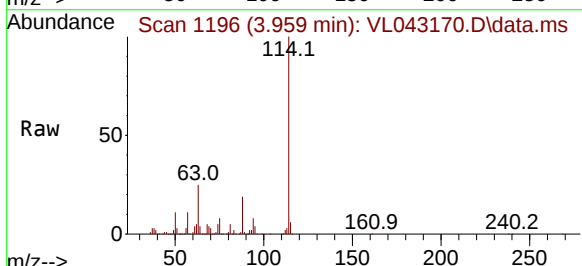
Tgt Ion: 114 Resp: 319474

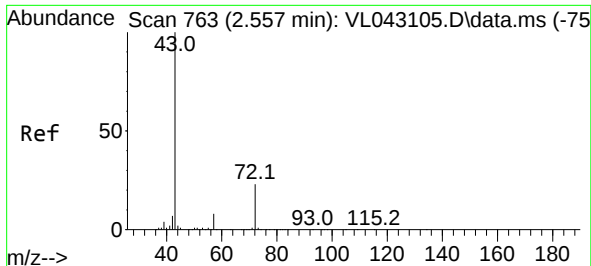
Ion Ratio Lower Upper

114 100

63 26.0 19.3 28.9

88 17.5 13.9 20.9

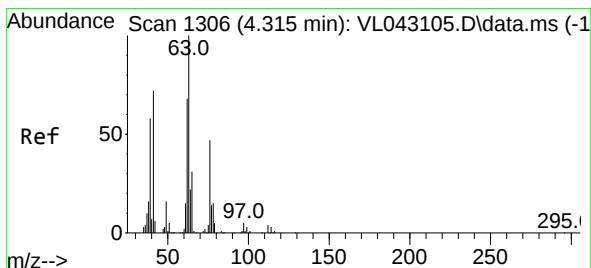
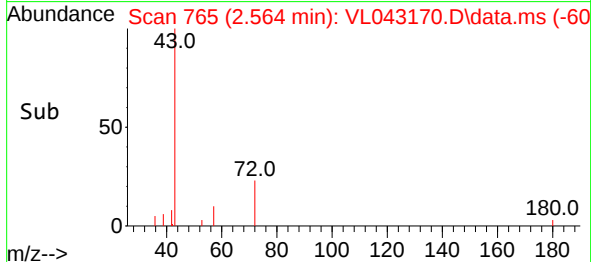
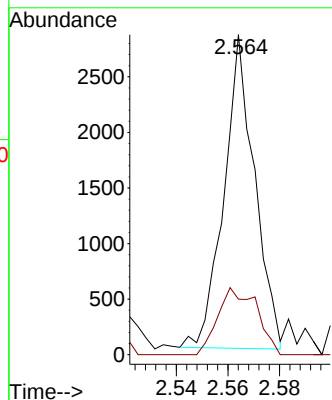
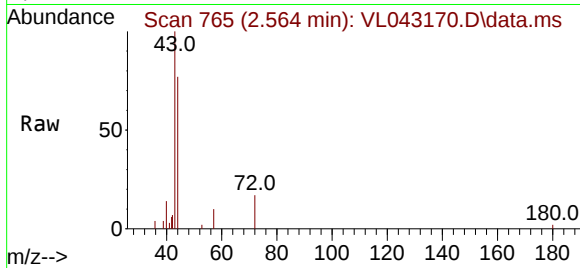




#34
2-Butanone
Concen: 0.108 ppbv
RT: 2.564 min Scan# 71
Delta R.T. 0.007 min
Lab File: VL043170.D
Acq: 06 Nov 2025 16:31

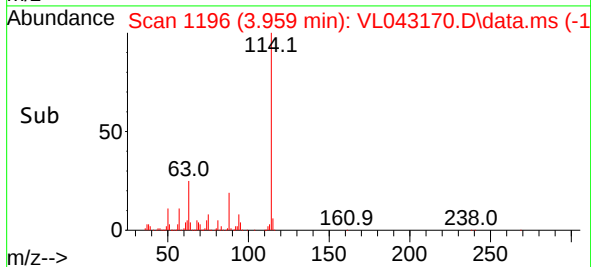
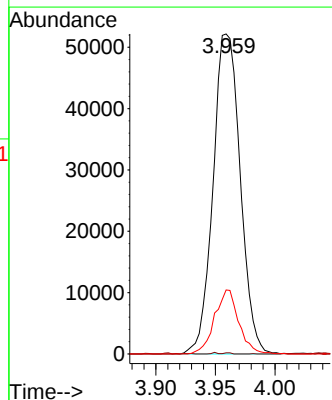
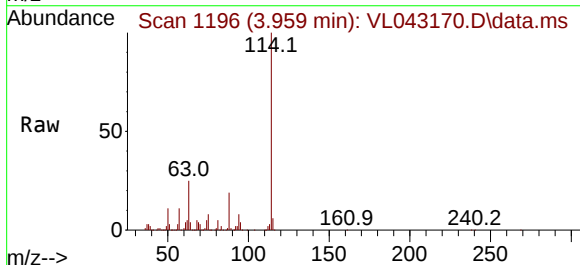
Instrument :
MSVOA_L
ClientSampleId :
141-SG-1DL

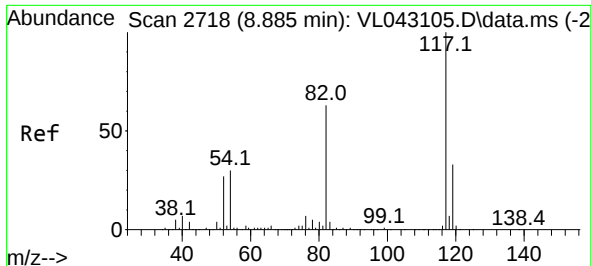
Tgt Ion: 43 Resp: 2328
Ion Ratio Lower Upper
43 100
72 27.2 18.4 27.6



#39
1,2-Dichloropropane
Concen: 7.525 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.356 min
Lab File: VL043170.D
Acq: 06 Nov 2025 16:31

Tgt Ion: 63 Resp: 82781
Ion Ratio Lower Upper
63 100
41 0.4 58.0 87.0#
62 20.0 54.7 82.1#

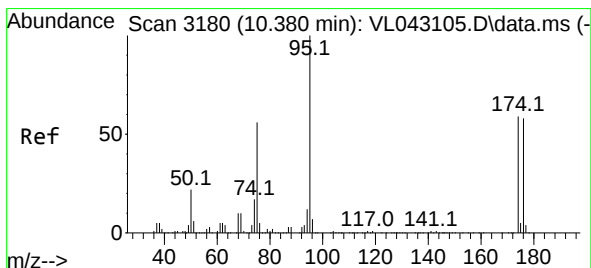
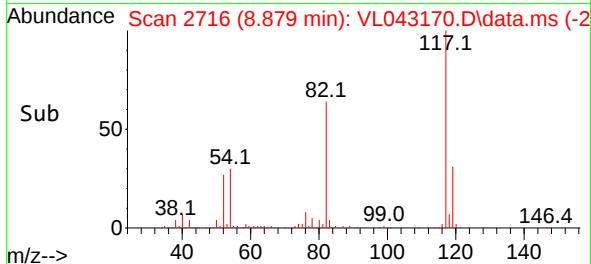
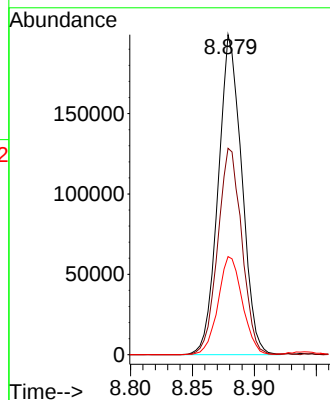
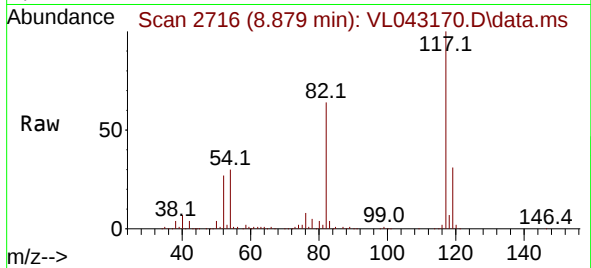




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL043170.D
Acq: 06 Nov 2025 16:31

Instrument :
MSVOA_L
ClientSampleId :
141-SG-1DL

Tgt Ion:117 Resp: 263917
Ion Ratio Lower Upper
117 100
82 65.8 53.8 80.8
119 31.7 25.4 38.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.954 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.006 min
Lab File: VL043170.D
Acq: 06 Nov 2025 16:31

Tgt Ion: 95 Resp: 204194
Ion Ratio Lower Upper
95 100
174 62.4 48.3 72.5
175 4.6 3.8 5.8

