

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043167.D
 Acq On : 06 Nov 2025 14:54
 Operator : SY/MD
 Sample : Q3555-04DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 151-SG-1DL

Quant Time: Nov 07 00:23:25 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	2.787	49	109979	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	312659	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	255972	10.000	ppbv	0.00

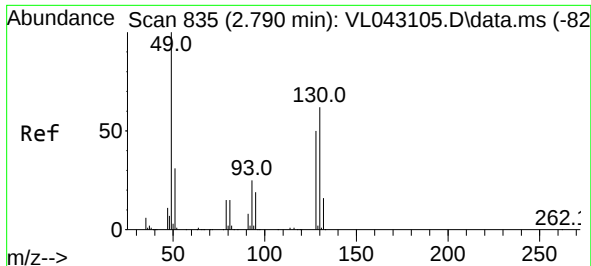
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	199265	10.015	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.200%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	839	0.054	ppbv	90
3) Chlorodifluoromethane	1.476	51	1682	0.099	ppbv #	71
4) Chloromethane	1.538	50	198	0.032	ppbv #	73
9) Propene	1.486	41	558	0.074	ppbv #	15
11) Trichlorofluoromethane	1.878	101	586	0.038	ppbv #	73
13) Ethanol	1.887	45	3845	1.385	ppbv #	38
15) Acetone	1.835	43	32439	2.188	ppbv	99
16) 1,3-Butadiene	1.602	39	667	0.094	ppbv #	50
19) Isopropyl Alcohol	1.887	45	3845	0.416	ppbv #	1
20) Methylene Chloride	2.062	84	2231	0.381	ppbv #	90
25) Ethyl Acetate	2.829	43	3228	0.088	ppbv #	75
26) Hexane	2.826	57	4364	0.258	ppbv #	36
29) Chloroform	2.849	83	199631	8.134	ppbv	97
30) Cyclohexane	3.949	84	1357	0.092	ppbv #	1
34) 2-Butanone	2.564	43	2215	0.105	ppbv #	80
39) 1,2-Dichloropropane	3.955	63	80816	7.507	ppbv #	26

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

Quant Time: Nov 07 00:23:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
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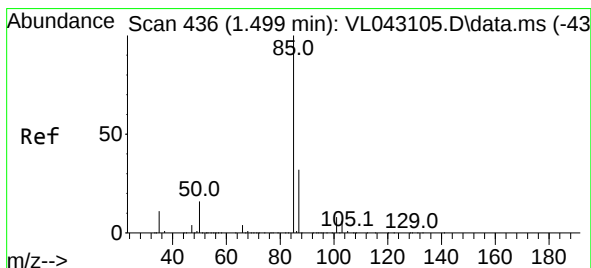
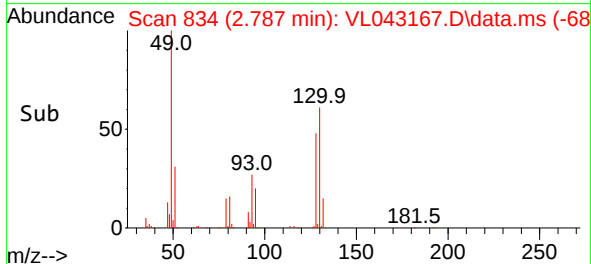
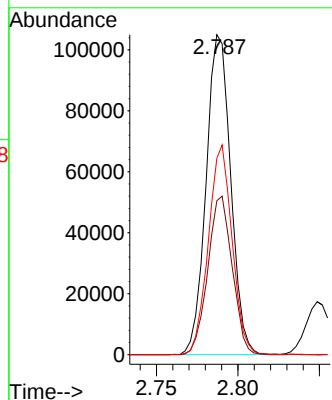
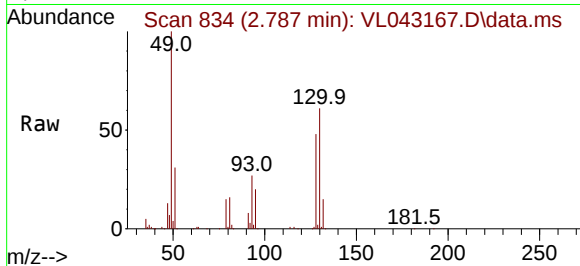




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043167.D
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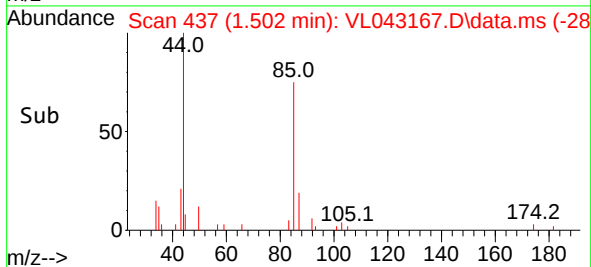
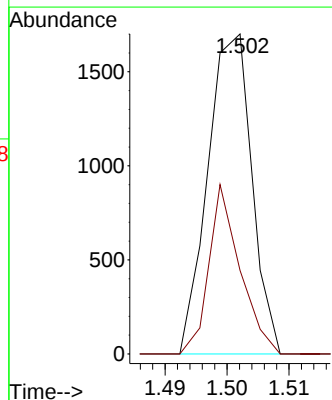
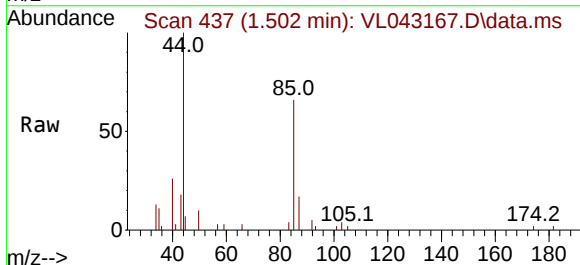
Instrument :
MSVOA_L
ClientSampleId :
151-SG-1DL

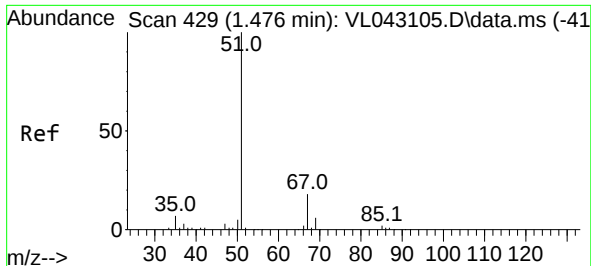
Tgt Ion: 49 Resp: 109979
Ion Ratio Lower Upper
49 100
128 49.2 24.4 73.4
130 63.3 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 0.054 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043167.D
Acq: 06 Nov 2025 14:54

Tgt Ion: 85 Resp: 839
Ion Ratio Lower Upper
85 100
87 26.1 25.3 37.9

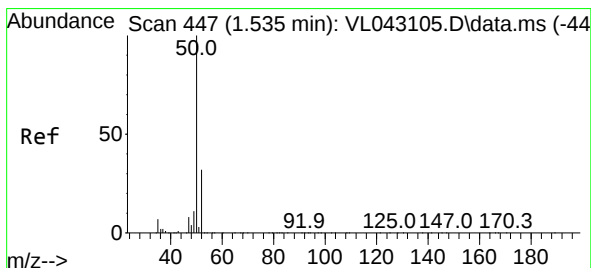
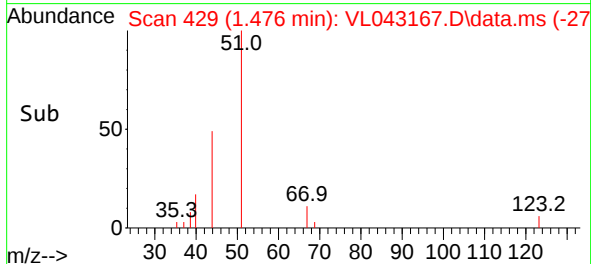
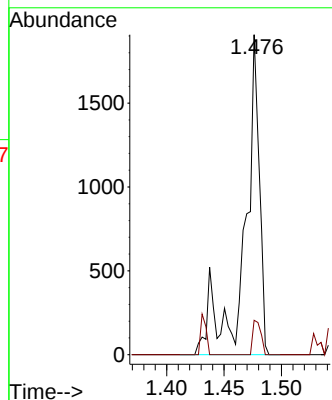
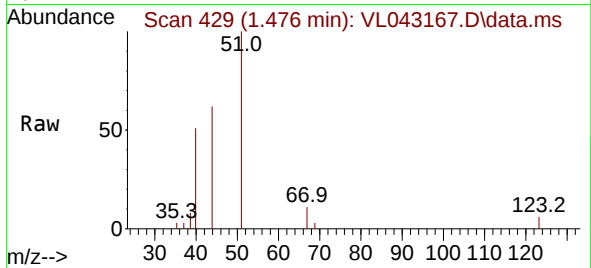




#3
Chlorodifluoromethane
Concen: 0.099 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL043167.D
Acq: 06 Nov 2025 14:54

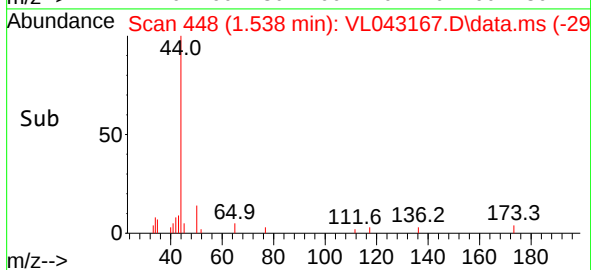
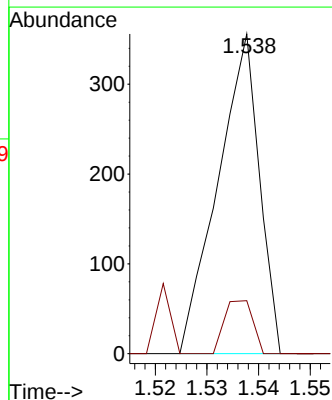
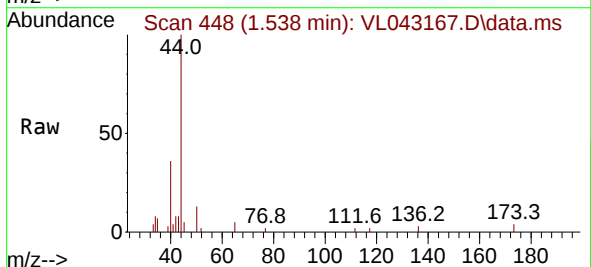
Instrument :
MSVOA_L
ClientSampleId :
151-SG-1DL

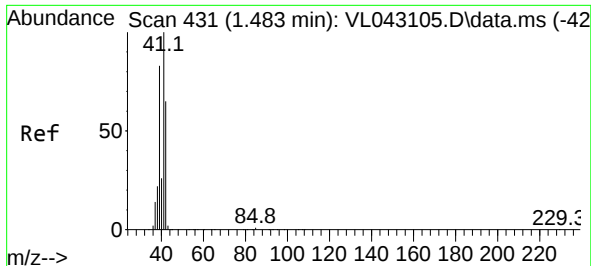
Tgt Ion: 51 Resp: 1682
Ion Ratio Lower Upper
51 100
67 5.9 15.1 22.7#



#4
Chloromethane
Concen: 0.032 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL043167.D
Acq: 06 Nov 2025 14:54

Tgt Ion: 50 Resp: 198
Ion Ratio Lower Upper
50 100
52 16.6 25.2 37.8#





#9

Propene

Concen: 0.074 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043167.D

Acq: 06 Nov 2025 14:54

Instrument :

MSVOA_L

ClientSampleId :

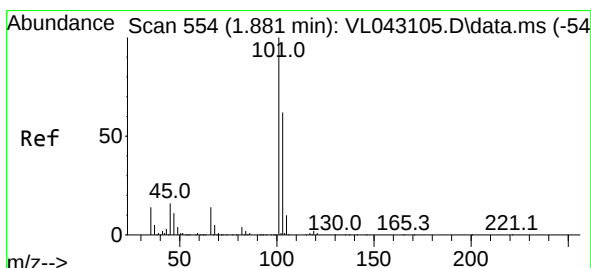
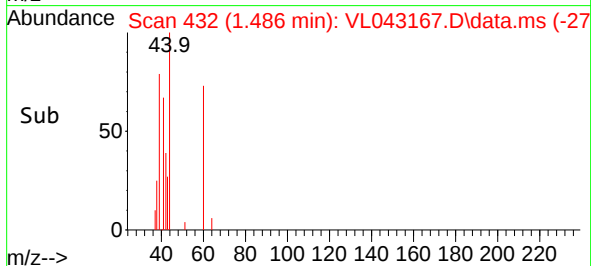
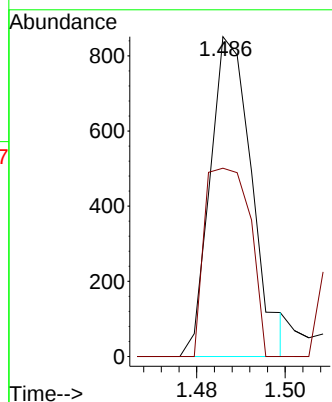
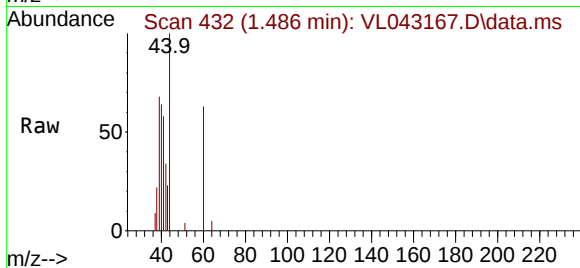
151-SG-1DL

Tgt Ion: 41 Resp: 558

Ion Ratio Lower Upper

41 100

42 0.0 55.1 82.7#



#11

Trichlorofluoromethane

Concen: 0.038 ppbv

RT: 1.878 min Scan# 553

Delta R.T. -0.003 min

Lab File: VL043167.D

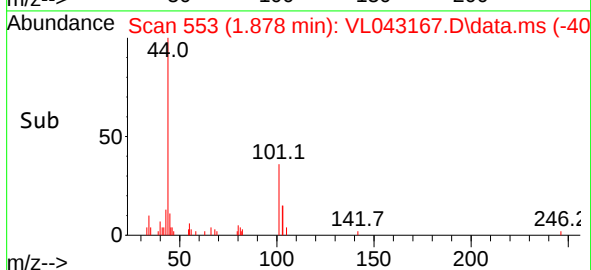
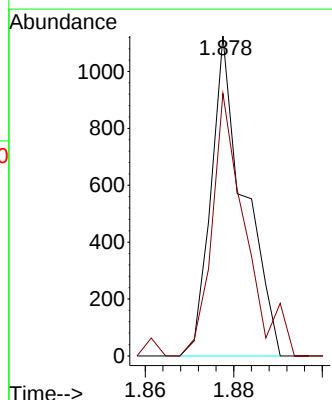
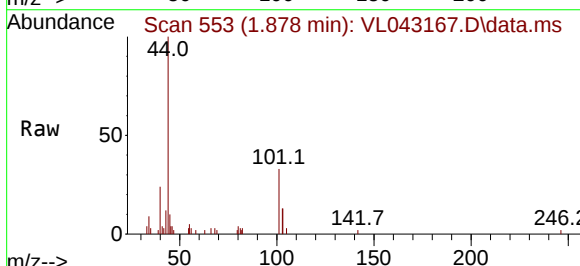
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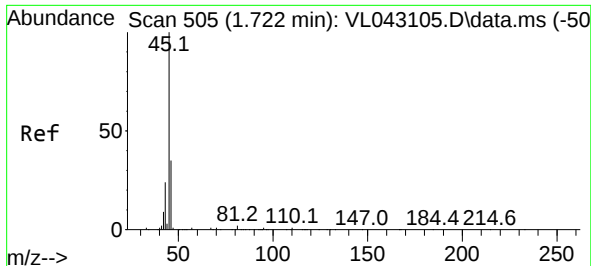
Tgt Ion:101 Resp: 586

Ion Ratio Lower Upper

101 100

103 82.0 49.3 73.9#

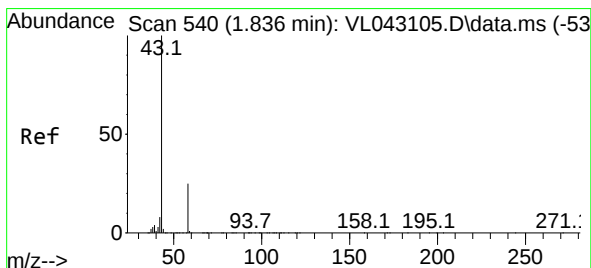
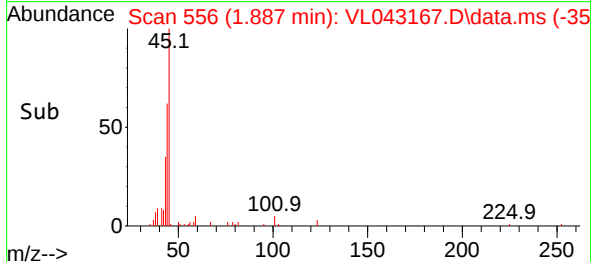
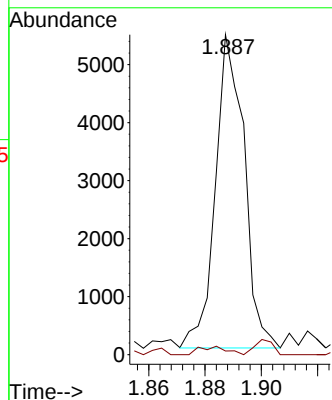
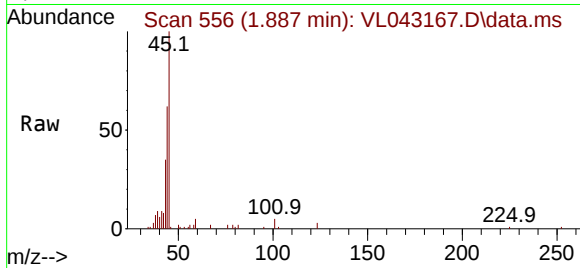




#13
Ethanol
Concen: 1.385 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.165 min
Lab File: VL043167.D
Acq: 06 Nov 2025 14:54

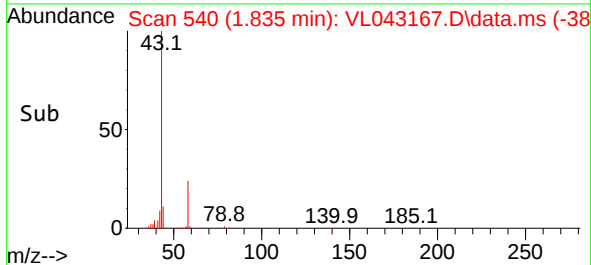
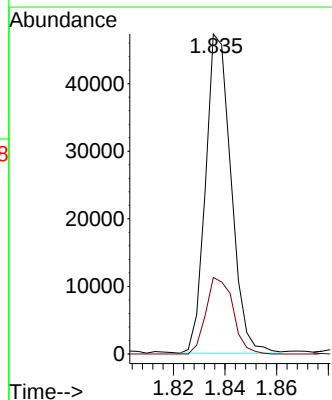
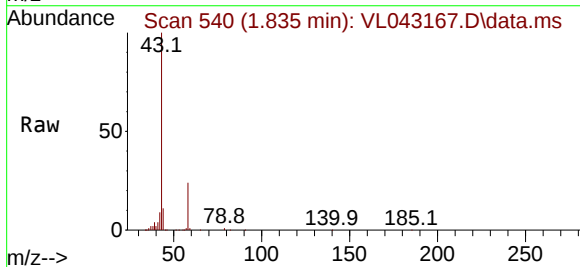
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MSVOA_L
ClientSampleId :
151-SG-1DL

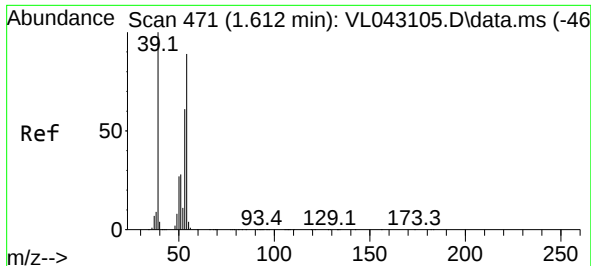
Tgt Ion: 45 Resp: 3845
Ion Ratio Lower Upper
45 100
46 0.0 14.7 58.9#



#15
Acetone
Concen: 2.188 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043167.D
Acq: 06 Nov 2025 14:54

Tgt Ion: 43 Resp: 32439
Ion Ratio Lower Upper
43 100
58 25.3 20.8 31.2





#16

1,3-Butadiene

Concen: 0.094 ppbv

RT: 1.602 min Scan# 4

Delta R.T. -0.010 min

Lab File: VL043167.D

Acq: 06 Nov 2025 14:54

Instrument :

MSVOA_L

ClientSampleId :

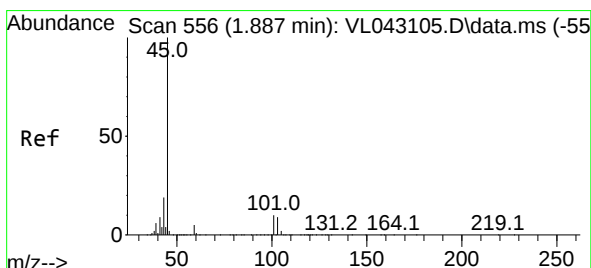
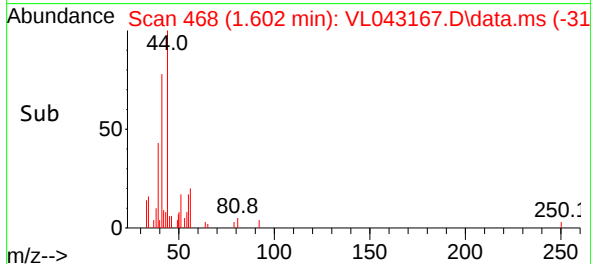
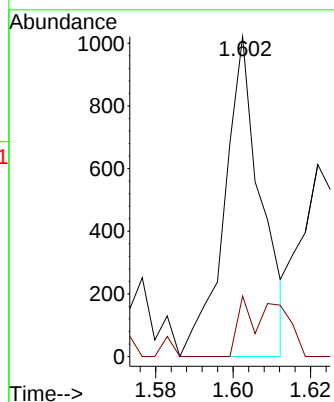
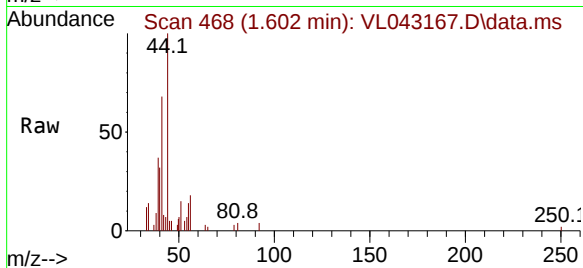
151-SG-1DL

Tgt Ion: 39 Resp: 667

Ion Ratio Lower Upper

39 100

54 31.5 59.0 88.4#



#19

Isopropyl Alcohol

Concen: 0.416 ppbv

RT: 1.887 min Scan# 556

Delta R.T. -0.000 min

Lab File: VL043167.D

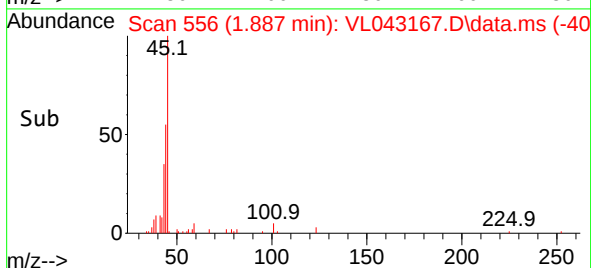
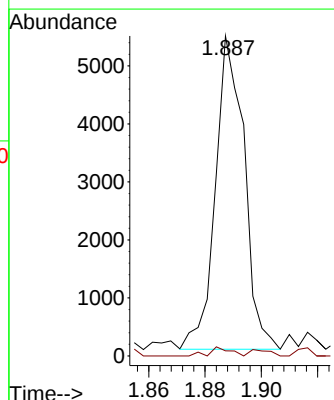
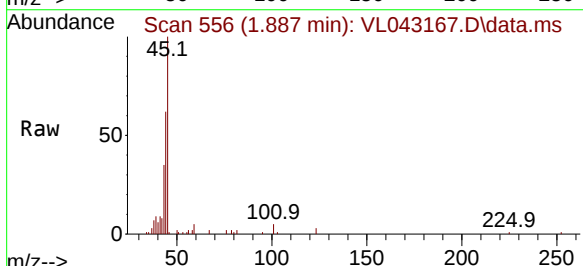
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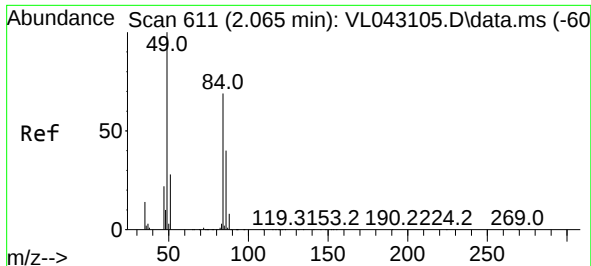
Tgt Ion: 45 Resp: 3845

Ion Ratio Lower Upper

45 100

58 213.7 31.3 46.9#

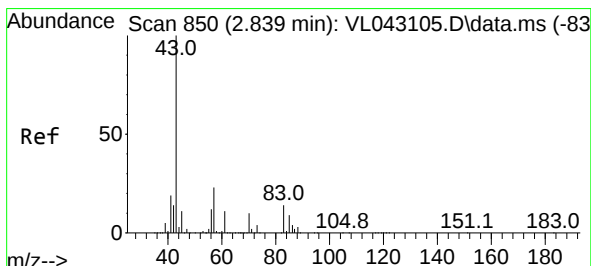
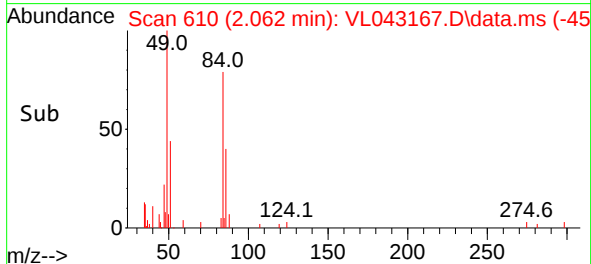
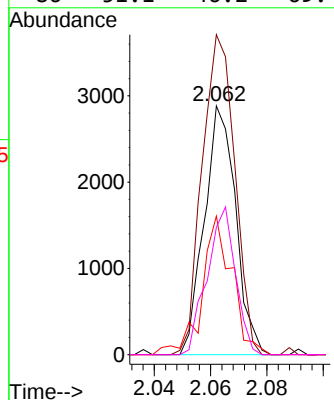
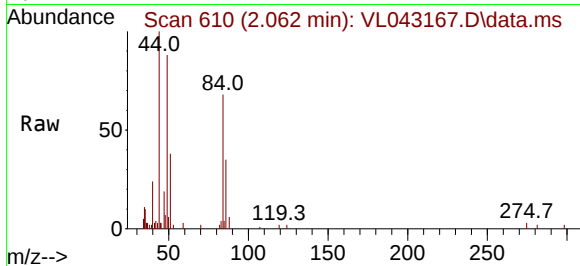




#20
Methylene Chloride
Concen: 0.381 ppbv
RT: 2.062 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL043167.D
Acq: 06 Nov 2025 14:54

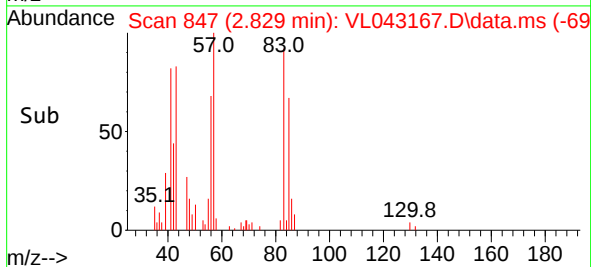
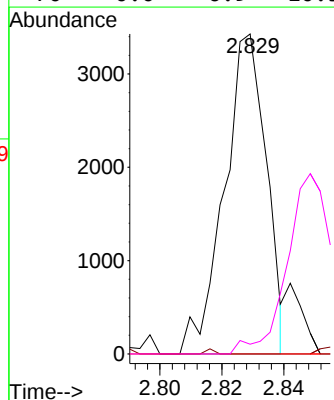
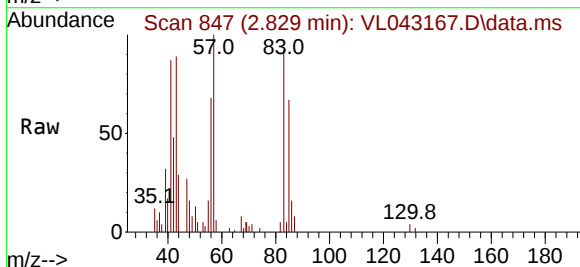
Instrument :
MSVOA_L
ClientSampleId :
151-SG-1DL

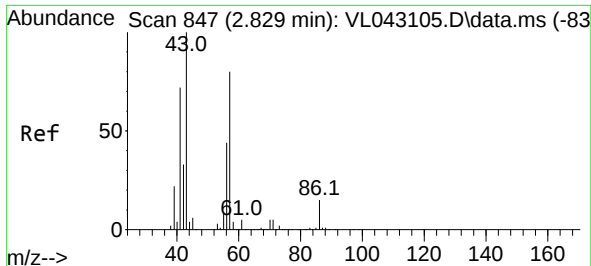
Tgt Ion:	84	Resp:	2231
Ion	Ratio	Lower	Upper
84	100		
49	135.6	116.6	175.0
51	55.7	34.8	52.2#
86	51.1	46.2	69.4



#25
Ethyl Acetate
Concen: 0.088 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.010 min
Lab File: VL043167.D
Acq: 06 Nov 2025 14:54

Tgt Ion:	43	Resp:	3228
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.8#
61	0.0	7.0	10.6#
70	0.0	6.9	10.3#

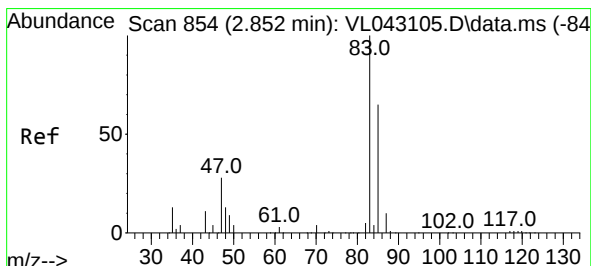
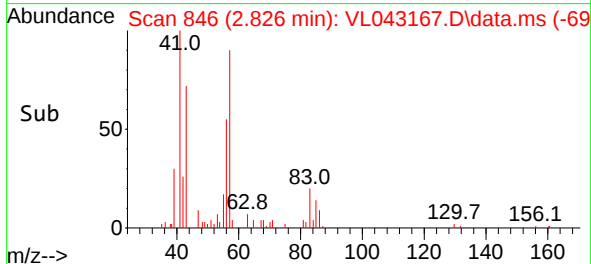
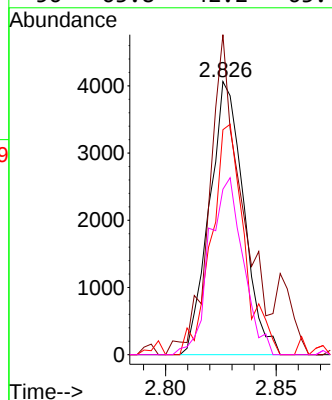
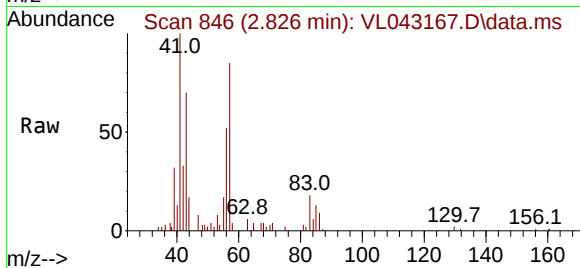




#26
Hexane
Concen: 0.258 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL043167.D
Acq: 06 Nov 2025 14:54

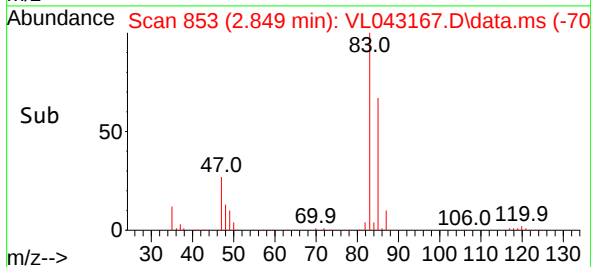
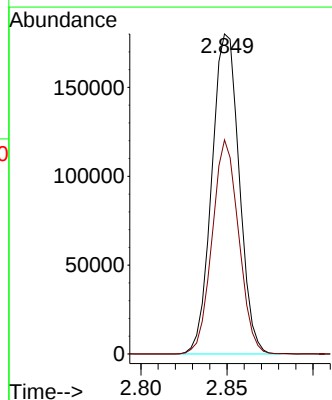
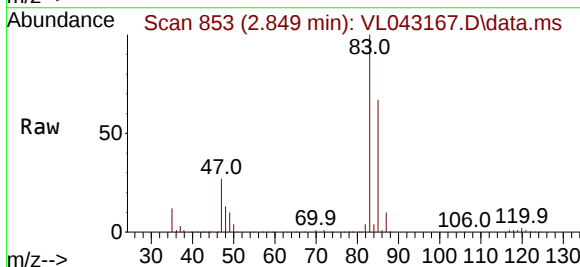
Instrument :
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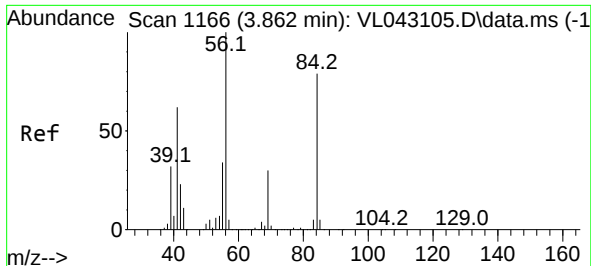
Tgt Ion: 57 Resp: 4364
Ion Ratio Lower Upper
57 100
41 126.5 71.4 107.0#
43 84.6 178.5 267.7#
56 63.8 42.2 63.4#



#29
Chloroform
Concen: 8.134 ppbv
RT: 2.849 min Scan# 853
Delta R.T. -0.003 min
Lab File: VL043167.D
Acq: 06 Nov 2025 14:54

Tgt Ion: 83 Resp: 199631
Ion Ratio Lower Upper
83 100
85 66.8 51.8 77.6

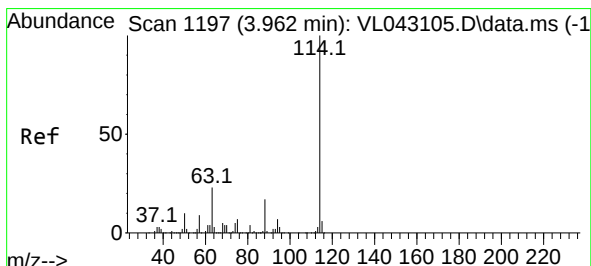
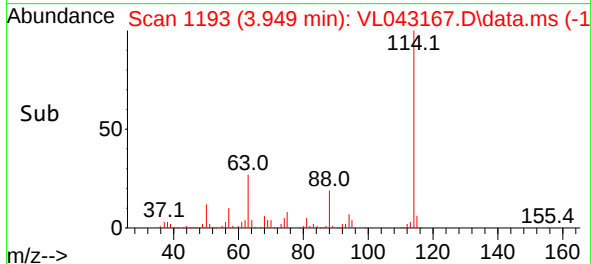
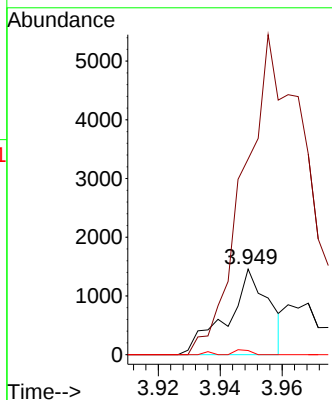
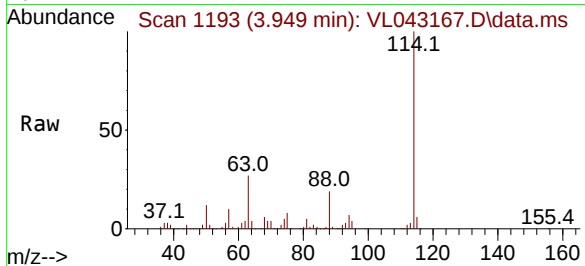




#30
Cyclohexane
Concen: 0.092 ppbv
RT: 3.949 min Scan# 1166
Delta R.T. 0.087 min
Lab File: VL043167.D
Acq: 06 Nov 2025 14:54

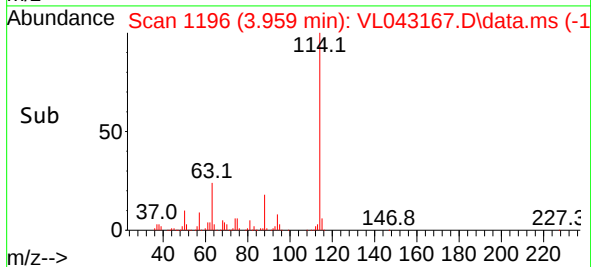
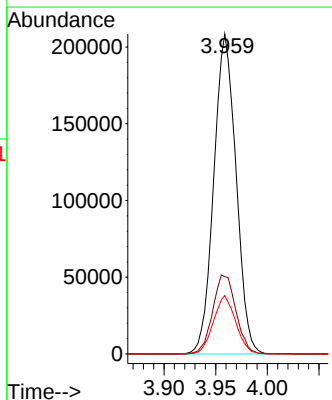
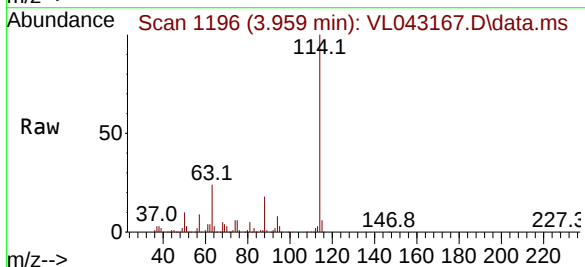
Instrument :
MSVOA_L
ClientSampleId :
151-SG-1DL

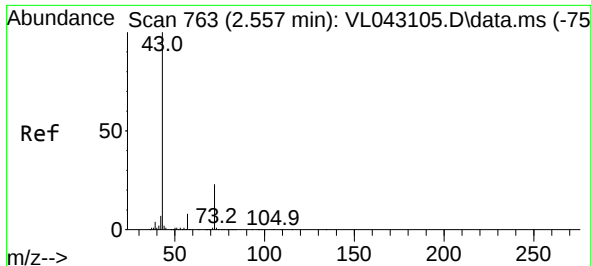
Tgt Ion: 84 Resp: 1357
Ion Ratio Lower Upper
84 100
56 577.5 100.9 151.3#
41 2.9 63.8 95.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.003 min
Lab File: VL043167.D
Acq: 06 Nov 2025 14:54

Tgt Ion: 114 Resp: 312659
Ion Ratio Lower Upper
114 100
63 25.9 19.3 28.9
88 18.2 13.9 20.9

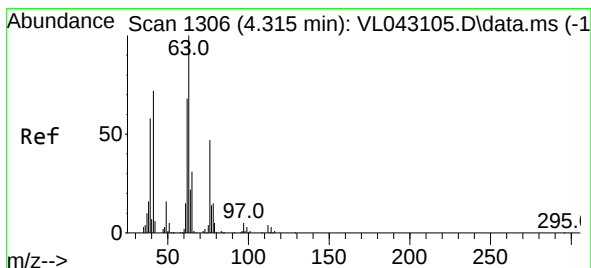
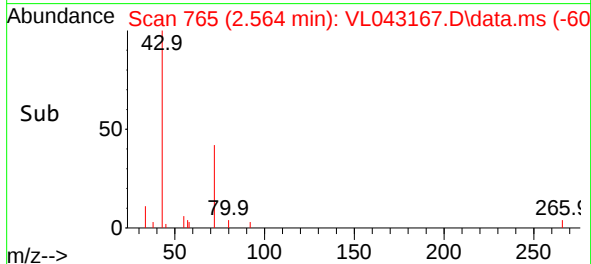
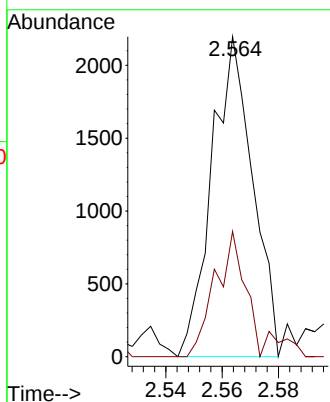
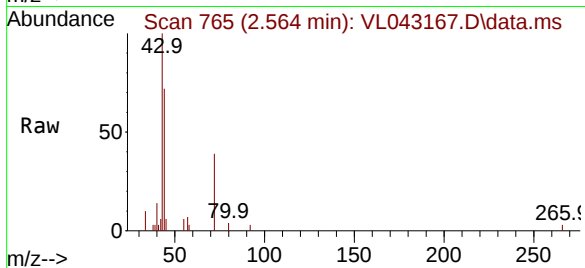




#34
2-Butanone
Concen: 0.105 ppbv
RT: 2.564 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL043167.D
Acq: 06 Nov 2025 14:54

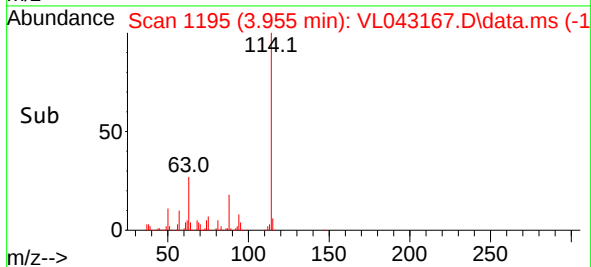
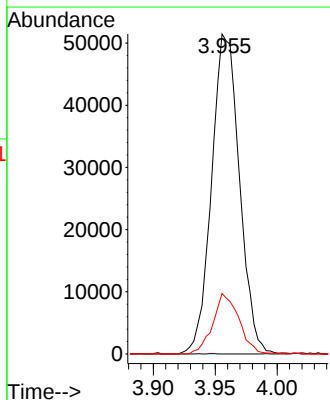
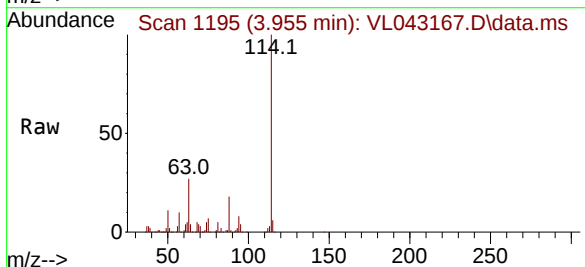
Instrument :
MSVOA_L
ClientSampleId :
151-SG-1DL

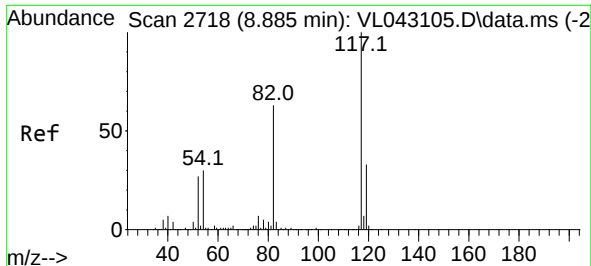
Tgt Ion: 43 Resp: 2215
Ion Ratio Lower Upper
43 100
72 32.6 18.4 27.6#



#39
1,2-Dichloropropane
Concen: 7.507 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.359 min
Lab File: VL043167.D
Acq: 06 Nov 2025 14:54

Tgt Ion: 63 Resp: 80816
Ion Ratio Lower Upper
63 100
41 0.0 58.0 87.0#
62 18.9 54.7 82.1#

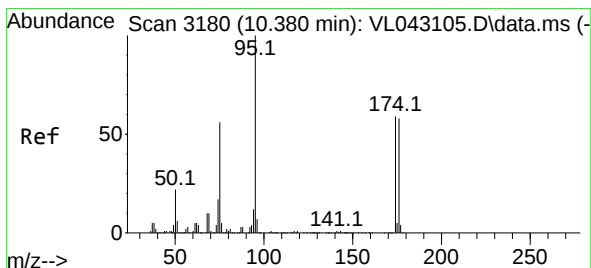
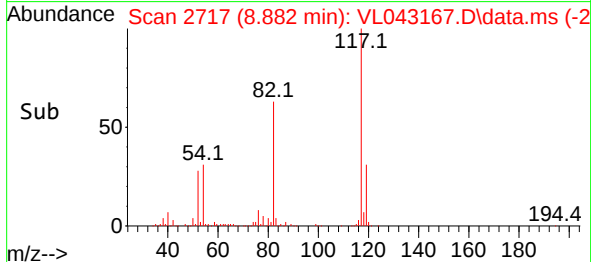
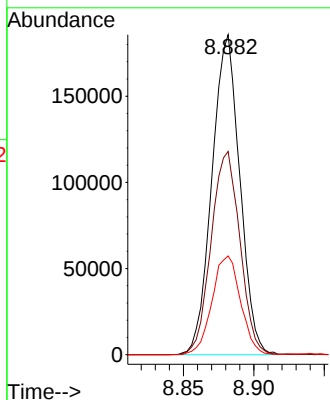
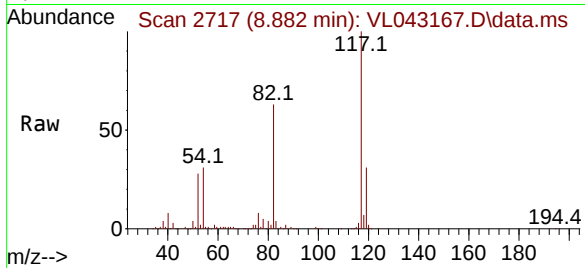




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL043167.D
Acq: 06 Nov 2025 14:54

Instrument :
MSVOA_L
ClientSampleId :
151-SG-1DL

Tgt Ion:117 Resp: 255972
Ion Ratio Lower Upper
117 100
82 65.6 53.8 80.8
119 31.6 25.4 38.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.015 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.007 min
Lab File: VL043167.D
Acq: 06 Nov 2025 14:54

Tgt Ion: 95 Resp: 199265
Ion Ratio Lower Upper
95 100
174 64.3 48.3 72.5
175 4.6 3.8 5.8

