

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043174.D
 Acq On : 06 Nov 2025 18:57
 Operator : SY/MD
 Sample : Q3555-04 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 151-SG-1

Quant Time: Nov 07 00:26:38 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	125587	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	343141	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	286902	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	227062	10.182	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.800%

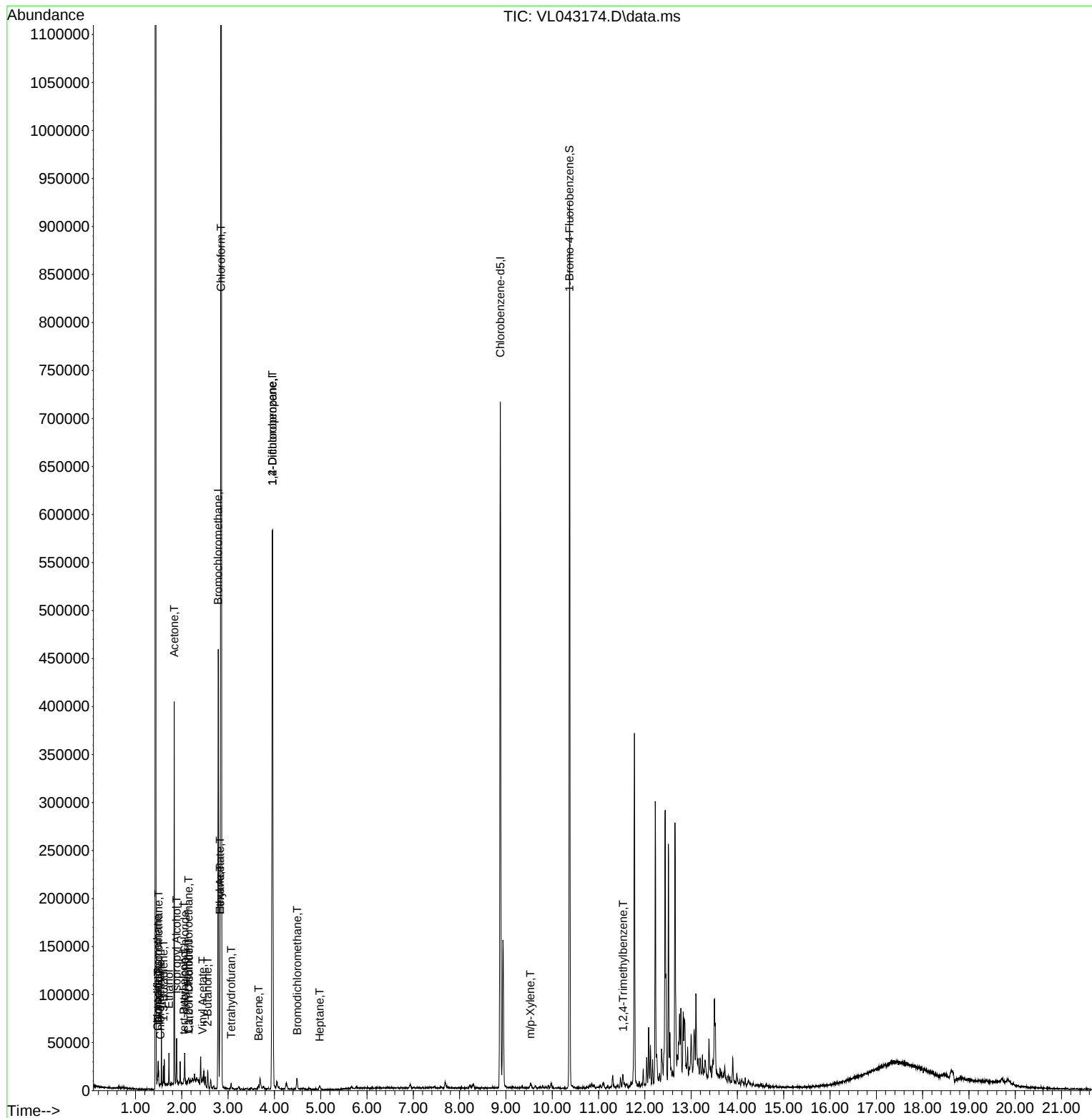
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	4291	0.240	ppbv	92
3) Chlorodifluoromethane	1.476	51	7090	0.367	ppbv #	83
4) Chloromethane	1.534	50	646	0.091	ppbv	98
9) Propene	1.486	41	2575	0.301	ppbv	85
10) Heptane	4.975	43	1188	0.048	ppbv	87
12) 1,1,2-Trichlorotrifluo...	2.143	101	435	0.031	ppbv	83
13) Ethanol	1.722	45	10821	3.415	ppbv	99
15) Acetone	1.835	43	165816	9.796	ppbv	99
16) 1,3-Butadiene	1.602	39	2644	0.328	ppbv #	29
17) tert-Butyl alcohol	2.042	59	2173	0.094	ppbv #	87
19) Isopropyl Alcohol	1.887	45	18388	1.744	ppbv #	1
20) Methylene Chloride	2.065	84	5101	0.762	ppbv	89
23) Vinyl Acetate	2.450	43	3309	0.133	ppbv #	67
25) Ethyl Acetate	2.826	43	19139	0.456	ppbv #	77
26) Hexane	2.826	57	25460	1.316	ppbv #	37
27) Carbon Disulfide	2.149	76	2378	0.134	ppbv #	1
29) Chloroform	2.848	83	1003371	35.801	ppbv	98
34) 2-Butanone	2.557	43	11822	0.513	ppbv	100
36) Benzene	3.658	78	1017	0.031	ppbv #	1
39) 1,2-Dichloropropane	3.959	63	88065	7.453	ppbv #	23
41) Tetrahydrofuran	3.065	42	1040	0.081	ppbv #	84
42) Bromodichloromethane	4.493	83	6035	0.234	ppbv #	78
59) m/p-Xylene	9.529	91	1451	0.037	ppbv #	28
74) 1,2,4-Trimethylbenzene	11.529	105	1738	0.039	ppbv #	48

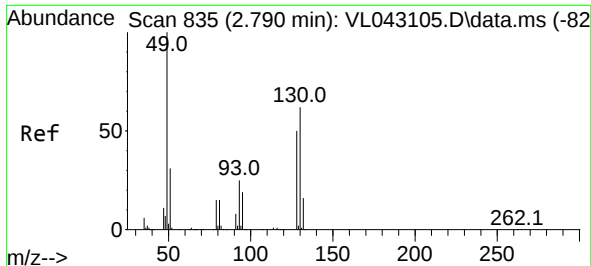
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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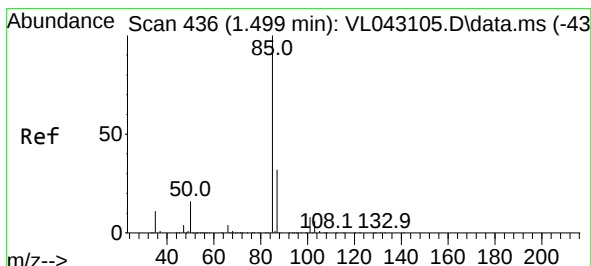
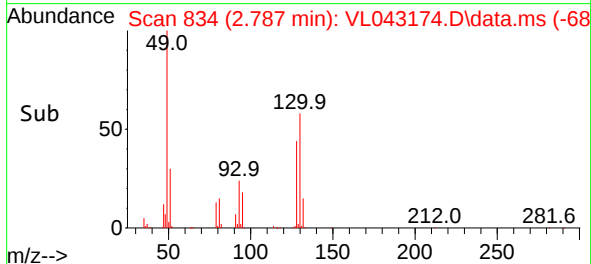
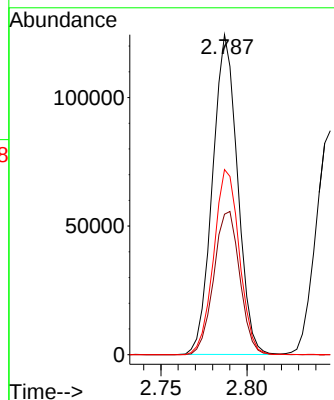
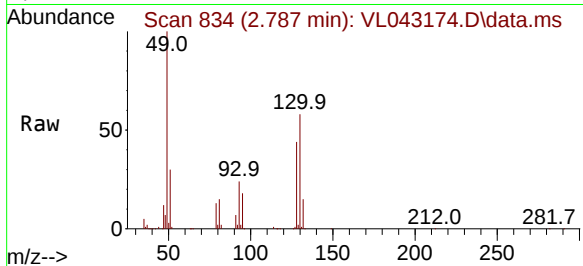




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

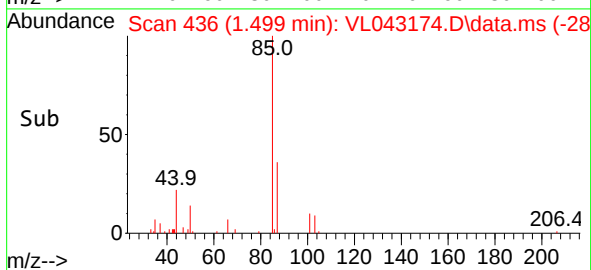
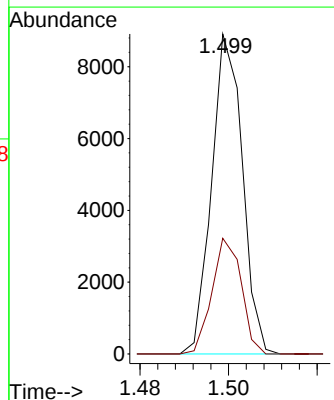
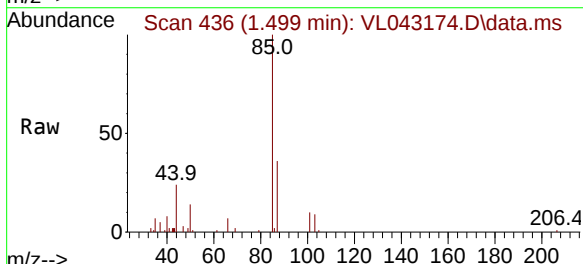
Instrument :
MSVOA_1
ClientSampleId :
151-SG-1

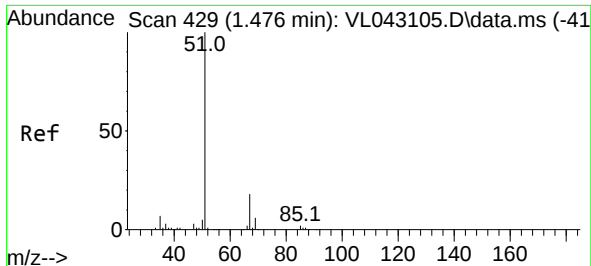
Tgt Ion: 49 Resp: 125587
Ion Ratio Lower Upper
49 100
128 46.7 24.4 73.4
130 59.5 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 0.240 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

Tgt Ion: 85 Resp: 4291
Ion Ratio Lower Upper
85 100
87 36.1 25.3 37.9

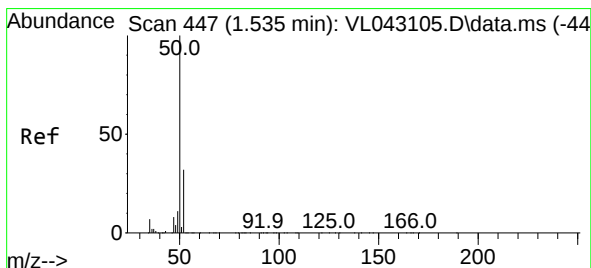
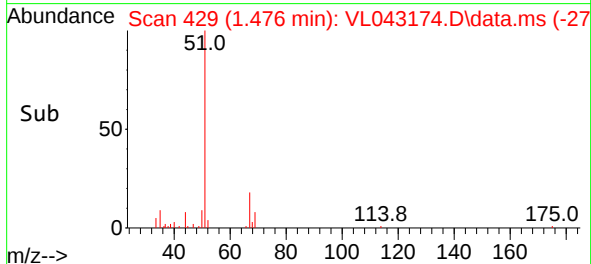
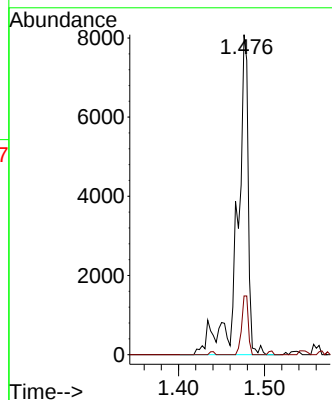
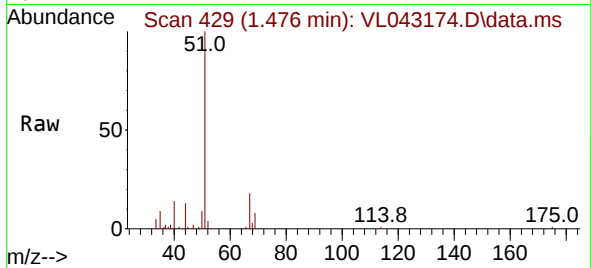




#3
Chlorodifluoromethane
Concen: 0.367 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

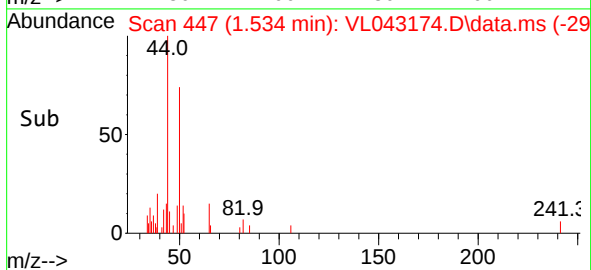
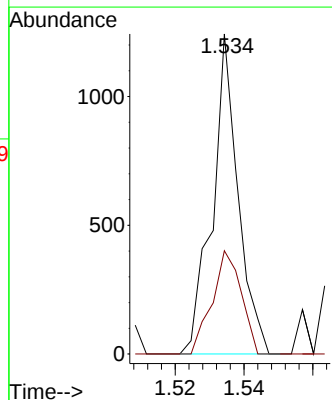
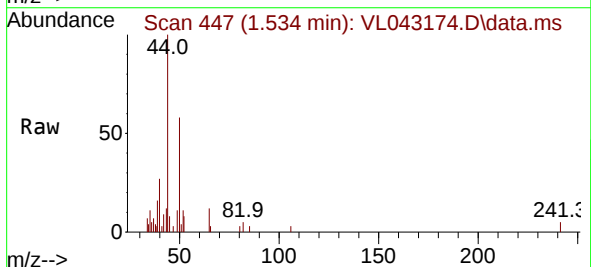
Instrument :
MSVOA_1
ClientSampleId :
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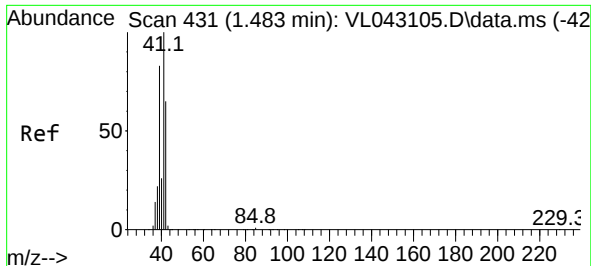
Tgt Ion: 51 Resp: 7090
Ion Ratio Lower Upper
51 100
67 11.1 15.1 22.7#



#4
Chloromethane
Concen: 0.091 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

Tgt Ion: 50 Resp: 646
Ion Ratio Lower Upper
50 100
52 30.3 25.2 37.8

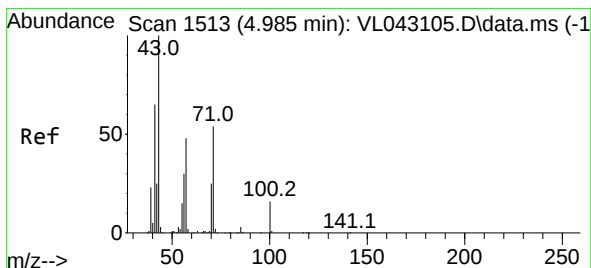
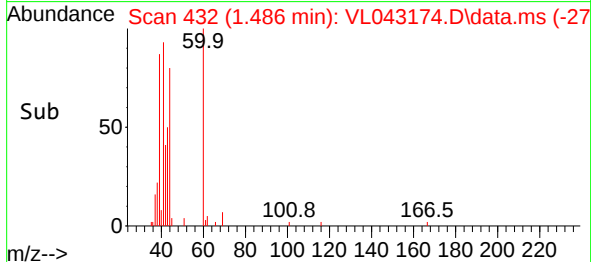
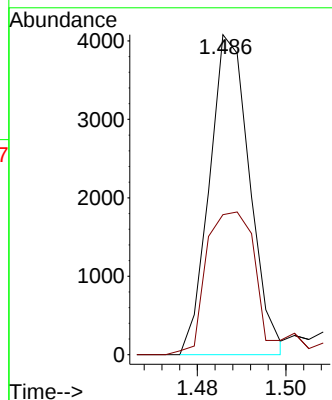
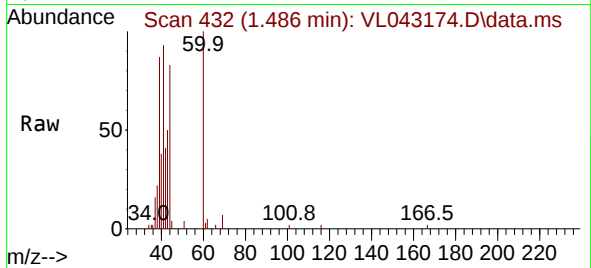




#9
Propene
Concen: 0.301 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

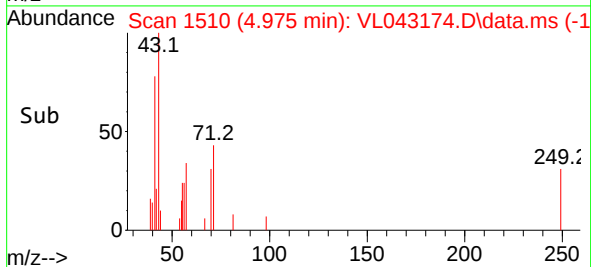
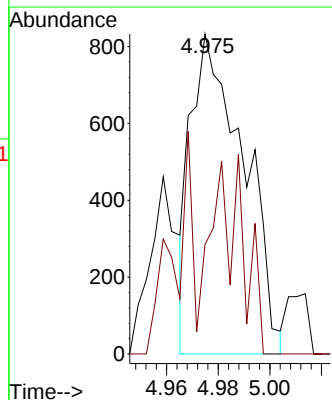
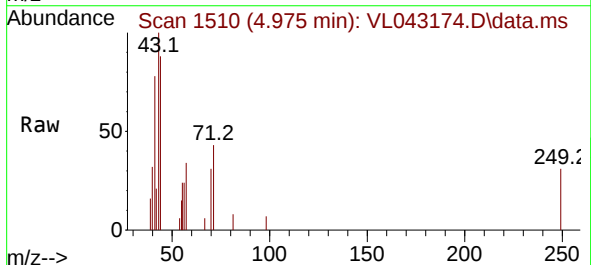
Instrument :
MSVOA_1
ClientSampleId :
151-SG-1

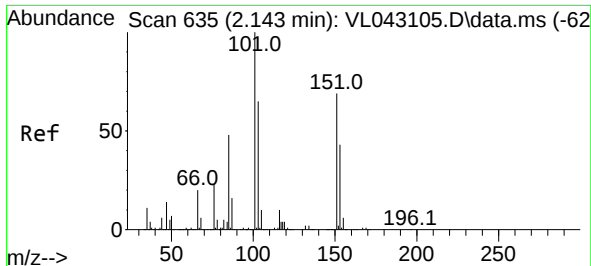
Tgt Ion: 41 Resp: 2575
Ion Ratio Lower Upper
41 100
42 56.8 55.1 82.7



#10
Heptane
Concen: 0.048 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. -0.010 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

Tgt Ion: 43 Resp: 1188
Ion Ratio Lower Upper
43 100
57 60.4 40.8 61.2

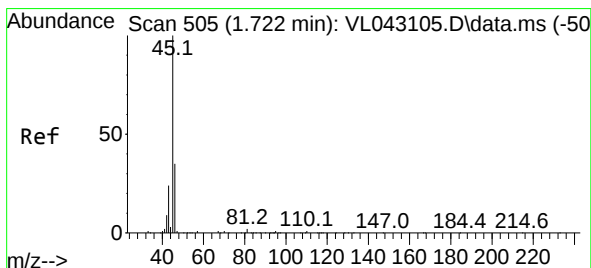
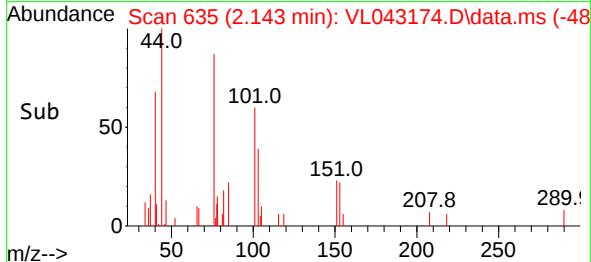
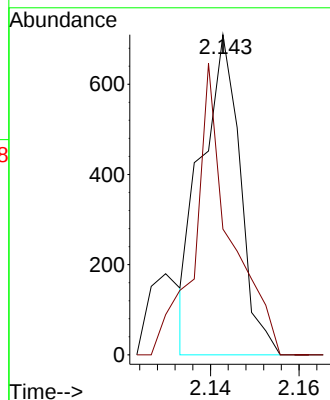
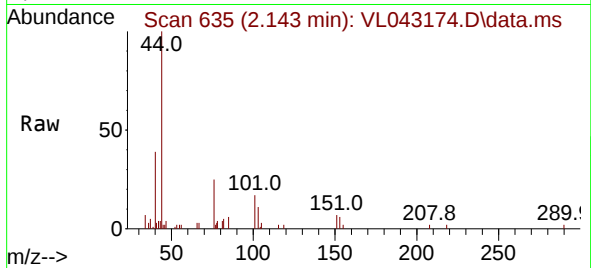




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.031 ppbv
 RT: 2.143 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL043174.D
 Acq: 06 Nov 2025 18:57

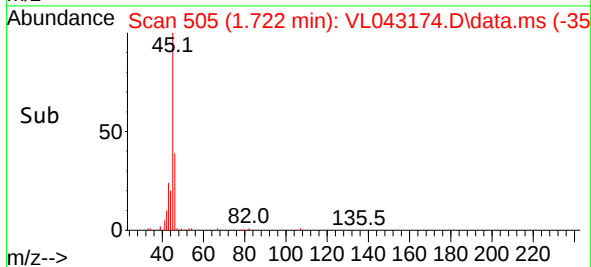
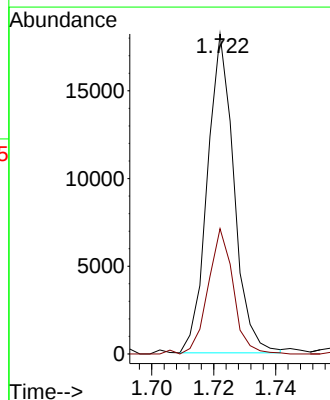
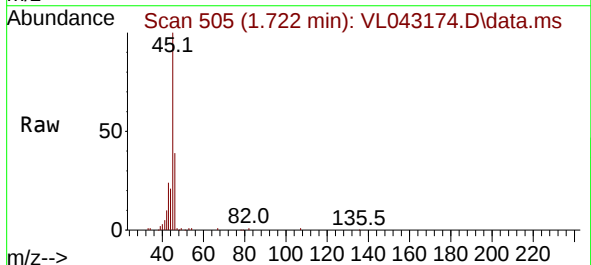
Instrument :
 MSVOA_1
 ClientSampleId :
 151-SG-1

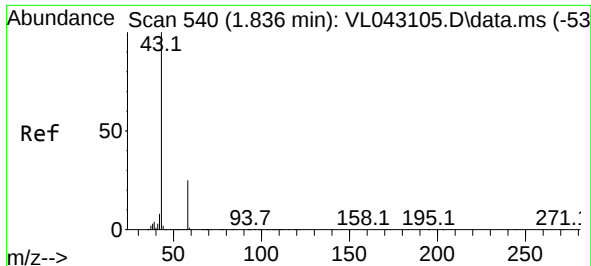
Tgt Ion:101 Resp: 435
 Ion Ratio Lower Upper
 101 100
 151 81.8 54.7 82.1



#13
 Ethanol
 Concen: 3.415 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. -0.000 min
 Lab File: VL043174.D
 Acq: 06 Nov 2025 18:57

Tgt Ion: 45 Resp: 10821
 Ion Ratio Lower Upper
 45 100
 46 37.3 14.7 58.9

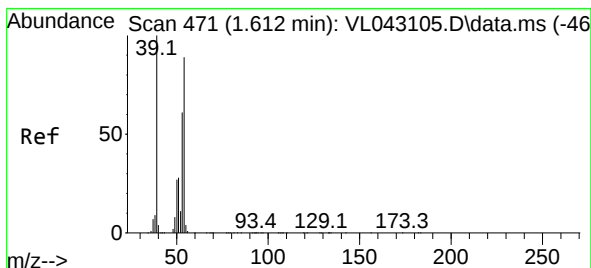
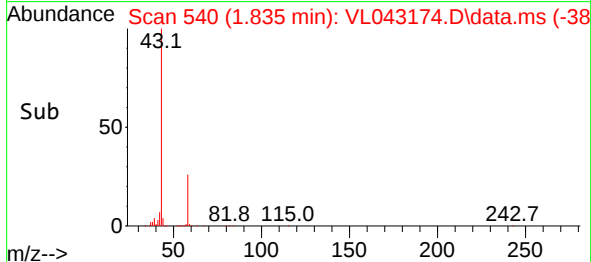
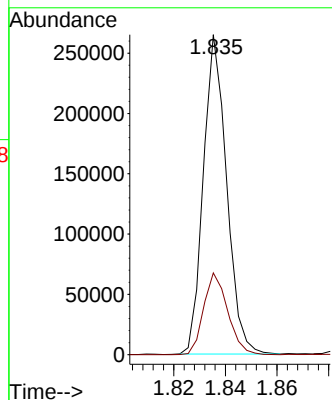
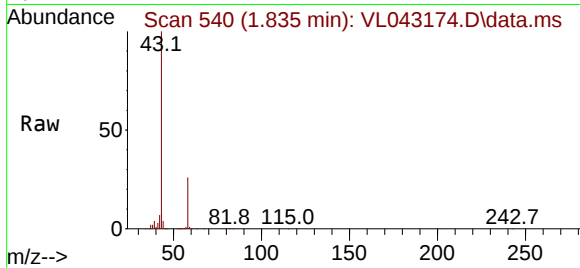




#15
Acetone
Concen: 9.796 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

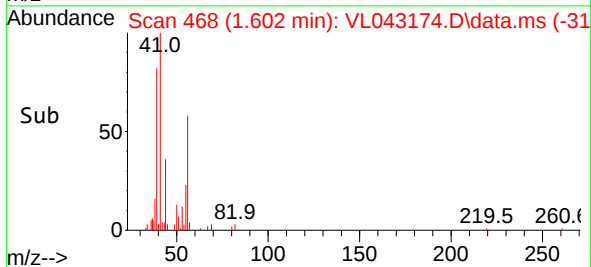
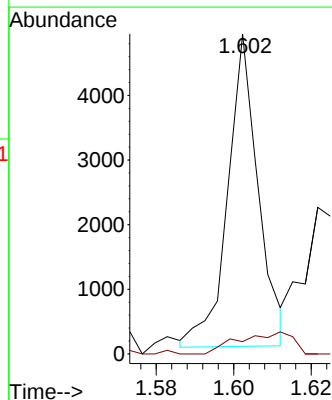
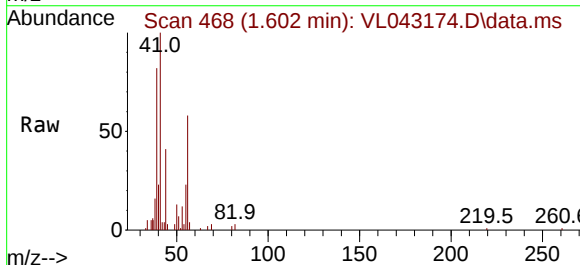
Instrument :
MSVOA_L
ClientSampleId :
151-SG-1

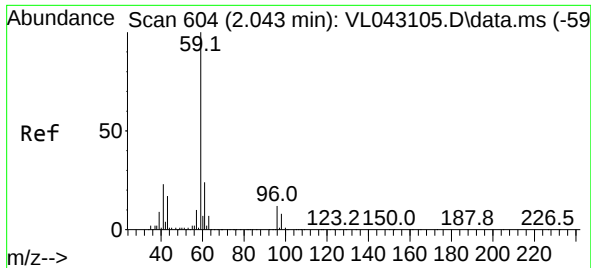
Tgt Ion: 43 Resp: 165816
Ion Ratio Lower Upper
43 100
58 26.5 20.8 31.2



#16
1,3-Butadiene
Concen: 0.328 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.010 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

Tgt Ion: 39 Resp: 2644
Ion Ratio Lower Upper
39 100
54 13.4 59.0 88.4#





#17

tert-Butyl alcohol

Concen: 0.094 ppbv

RT: 2.042 min Scan# 604

Delta R.T. -0.000 min

Lab File: VL043174.D

Acq: 06 Nov 2025 18:57

Instrument :

MSVOA_1

ClientSampleId :

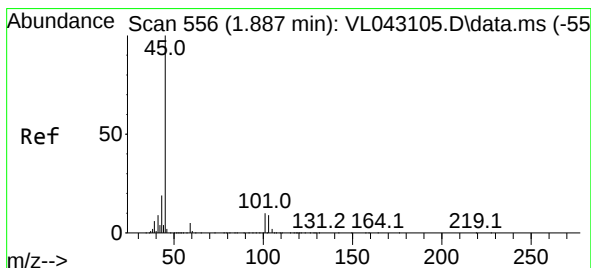
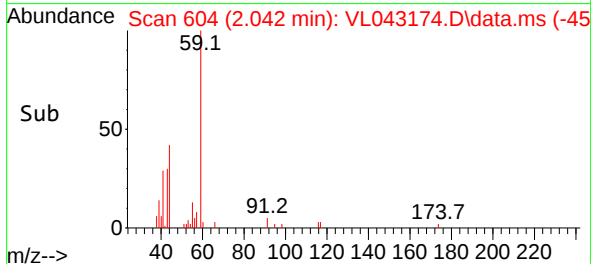
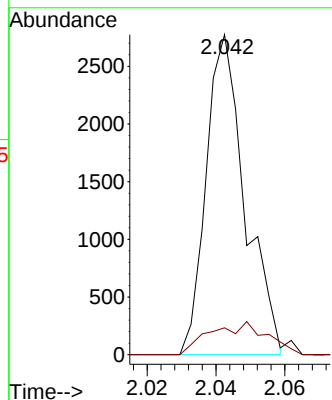
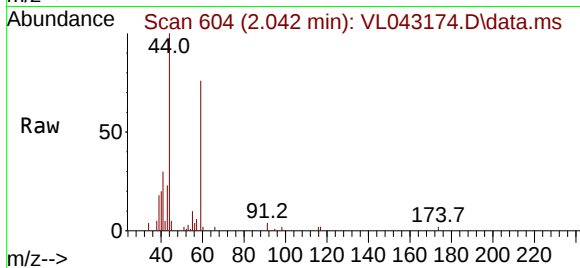
151-SG-1

Tgt Ion: 59 Resp: 2173

Ion Ratio Lower Upper

59 100

57 15.0 8.2 12.4#



#19

Isopropyl Alcohol

Concen: 1.744 ppbv

RT: 1.887 min Scan# 556

Delta R.T. -0.000 min

Lab File: VL043174.D

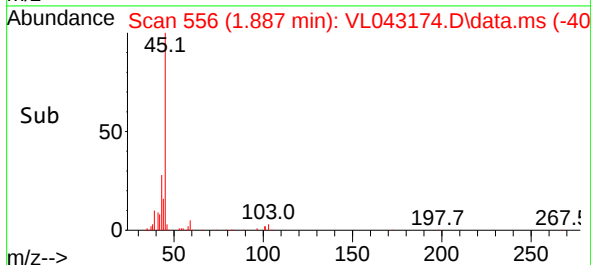
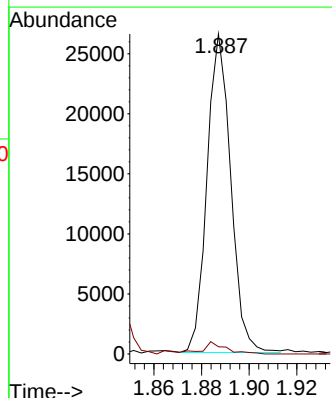
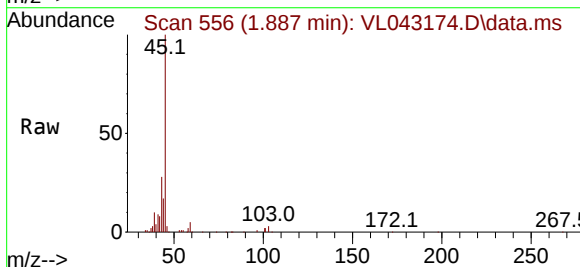
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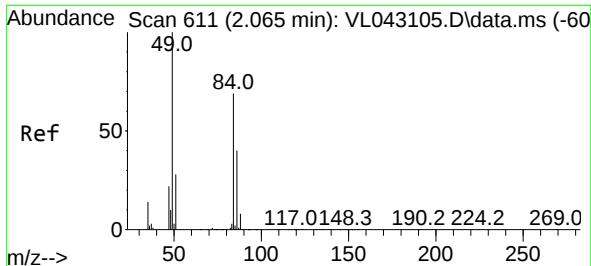
Tgt Ion: 45 Resp: 18388

Ion Ratio Lower Upper

45 100

58 239.4 31.3 46.9#

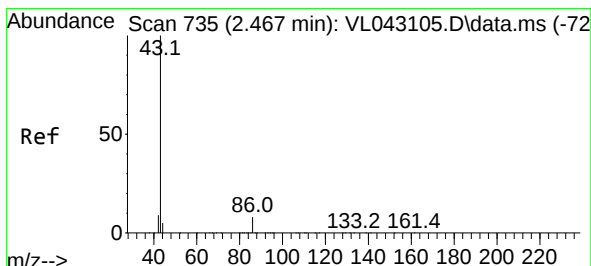
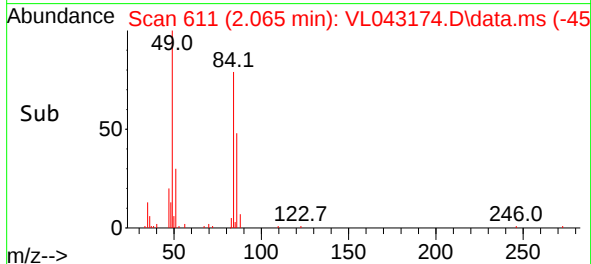
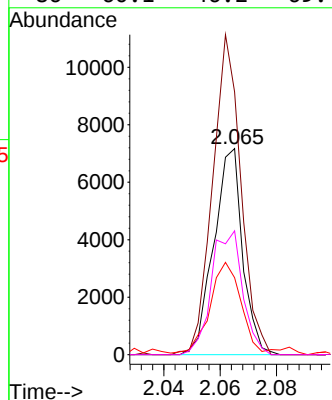
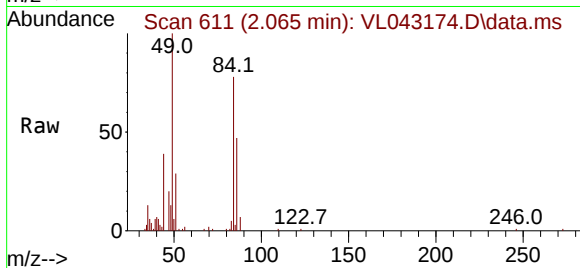




#20
Methylene Chloride
Concen: 0.762 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

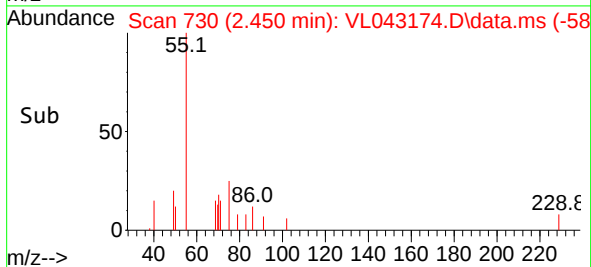
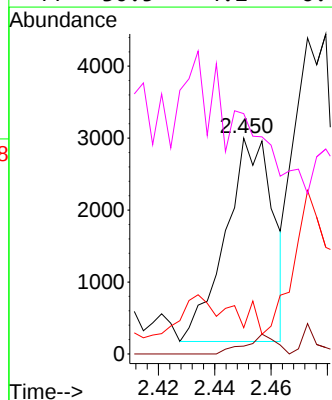
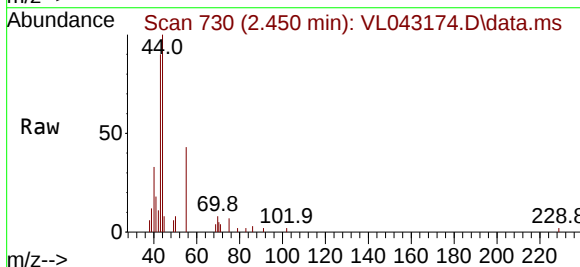
Instrument :
MSVOA_L
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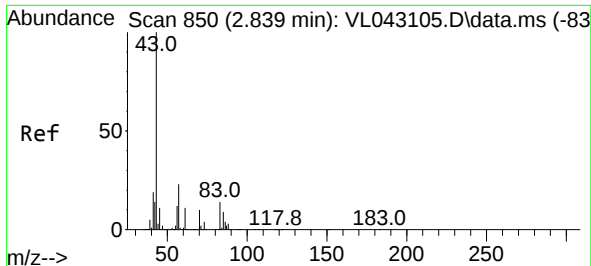
Tgt Ion: 84	Resp: 5101
Ion Ratio	Lower Upper
84 100	
49 127.5	116.6 175.0
51 35.9	34.8 52.2
86 60.1	46.2 69.4



#23
Vinyl Acetate
Concen: 0.133 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.016 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

Tgt	Ion: 43	Resp:	3309
Ion	Ratio	Lower	Upper
43	100		
86	3.9	6.2	9.2#
42	0.0	7.6	11.4#
44	30.5	4.2	6.4#

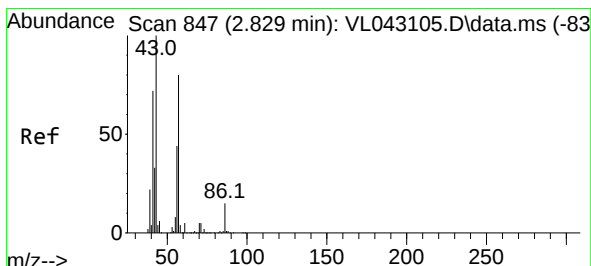
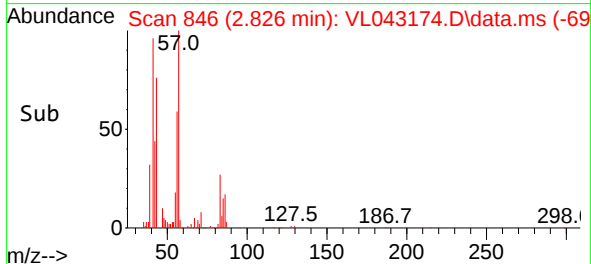
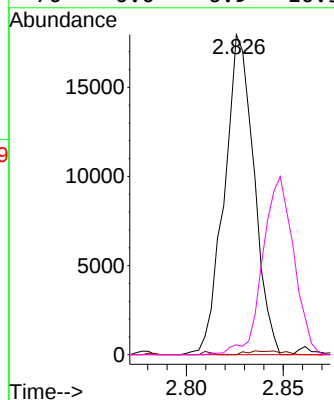
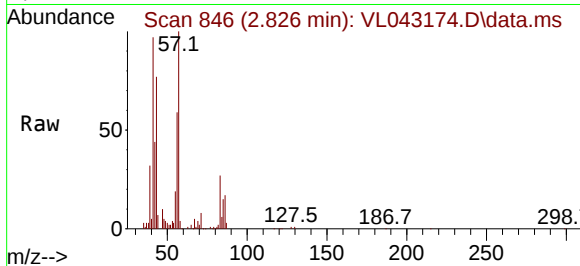




#25
Ethyl Acetate
Concen: 0.456 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.013 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

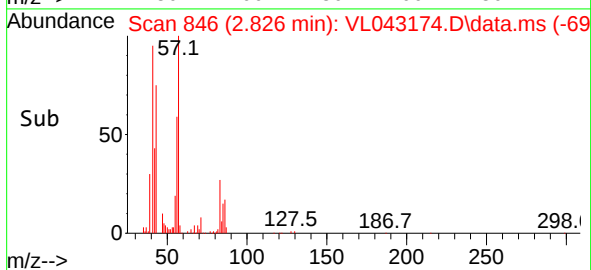
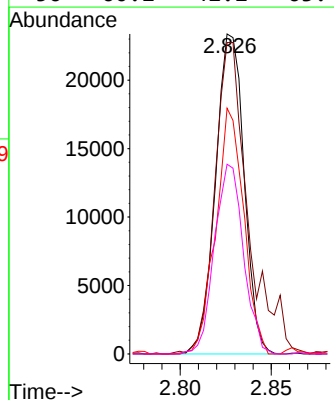
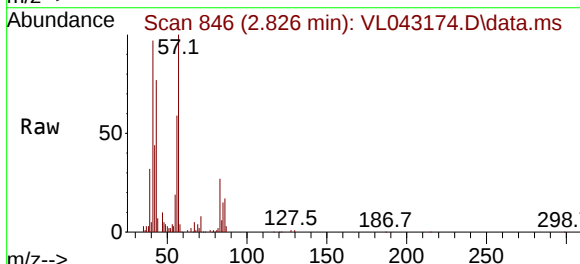
Instrument :
MSVOA_1
ClientSampleId :
151-SG-1

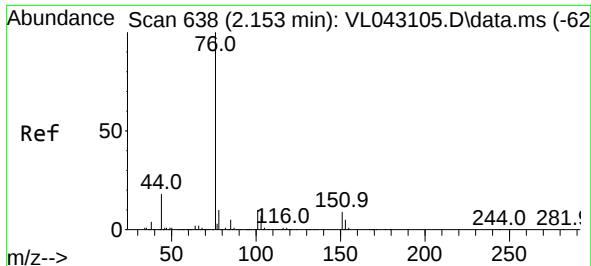
Tgt Ion:	43	Resp:	19139
Ion	Ratio	Lower	Upper
43	100		
45	1.7	7.8	11.8#
61	0.0	7.0	10.6#
70	0.0	6.9	10.3#



#26
Hexane
Concen: 1.316 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.004 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

Tgt Ion:	57	Resp:	25460
Ion	Ratio	Lower	Upper
57	100		
41	113.8	71.4	107.0#
43	77.0	178.5	267.7#
56	60.2	42.2	63.4

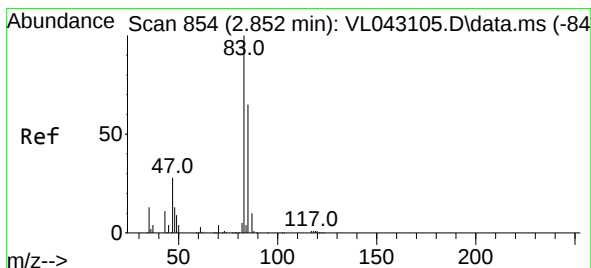
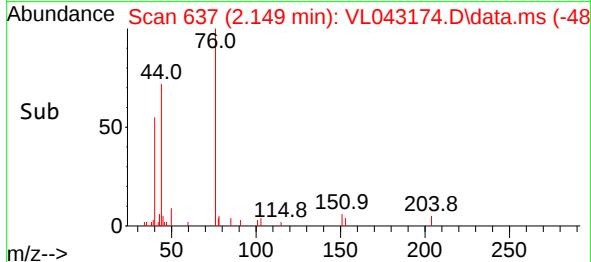
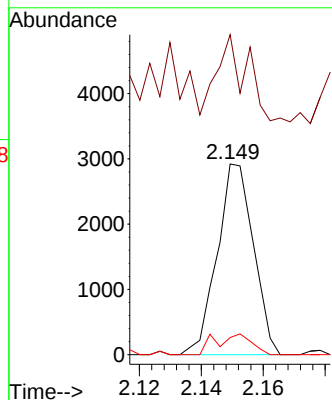
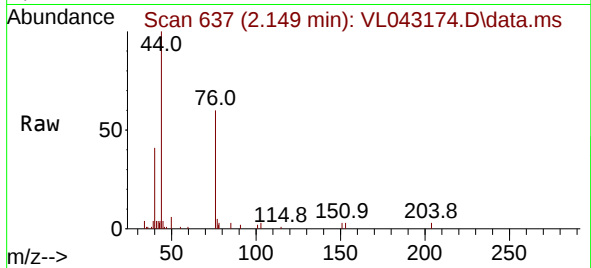




#27
Carbon Disulfide
Concen: 0.134 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.004 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

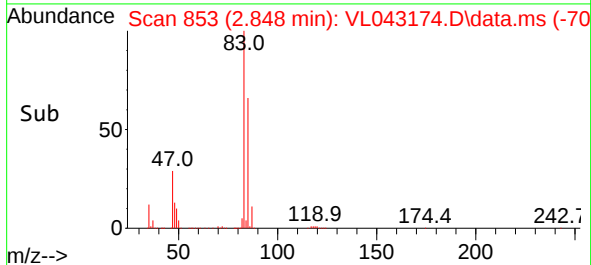
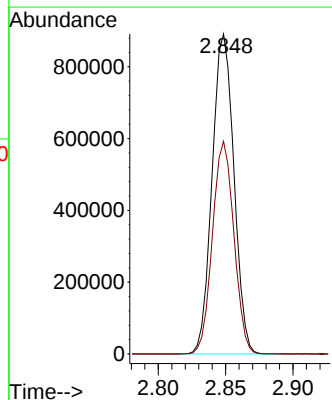
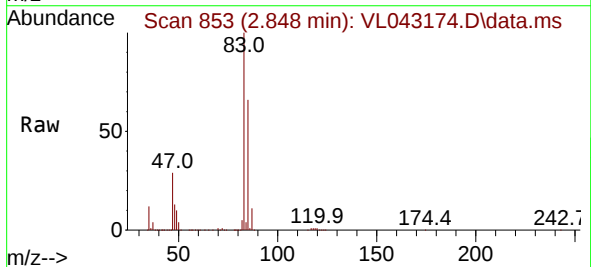
Instrument :
MSVOA_L
ClientSampleId :
151-SG-1

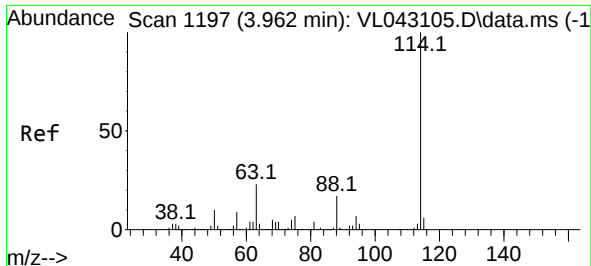
Tgt Ion: 76 Resp: 2378
Ion Ratio Lower Upper
76 100
44 354.0 16.7 25.1#
78 12.3 9.3 13.9



#29
Chloroform
Concen: 35.801 ppbv
RT: 2.848 min Scan# 853
Delta R.T. -0.004 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

Tgt Ion: 83 Resp: 1003371
Ion Ratio Lower Upper
83 100
85 66.4 51.8 77.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.004 min

Lab File: VL043174.D

Acq: 06 Nov 2025 18:57

Instrument :

MSVOA_1

ClientSampleId :

151-SG-1

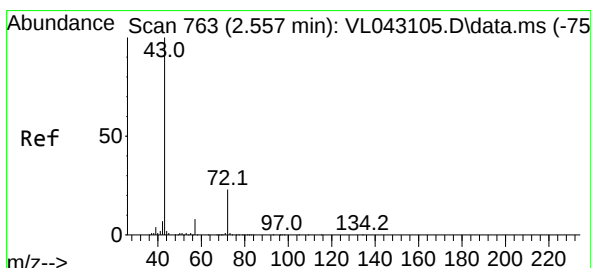
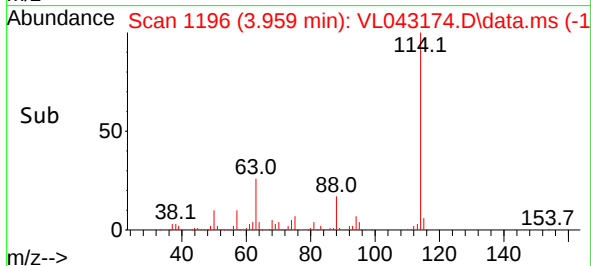
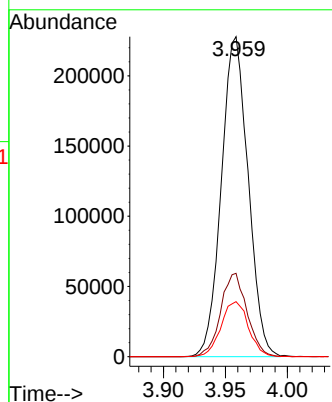
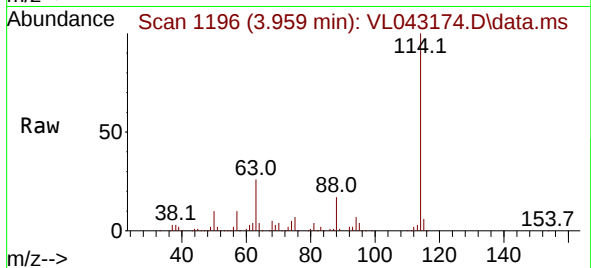
Tgt Ion:114 Resp: 343141

Ion Ratio Lower Upper

114 100

63 25.8 19.3 28.9

88 17.6 13.9 20.9



#34

2-Butanone

Concen: 0.513 ppbv

RT: 2.557 min Scan# 763

Delta R.T. -0.000 min

Lab File: VL043174.D

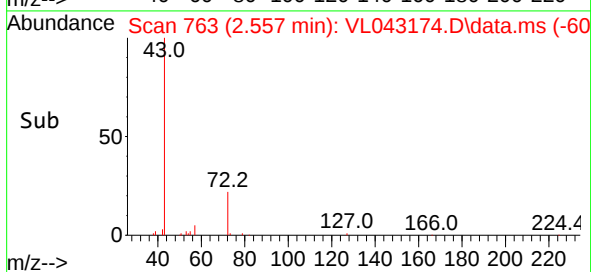
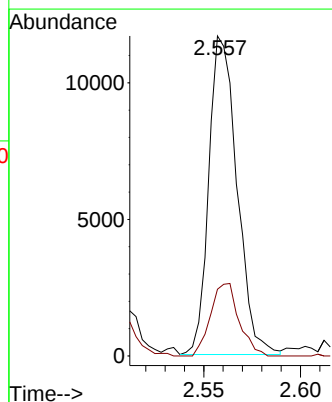
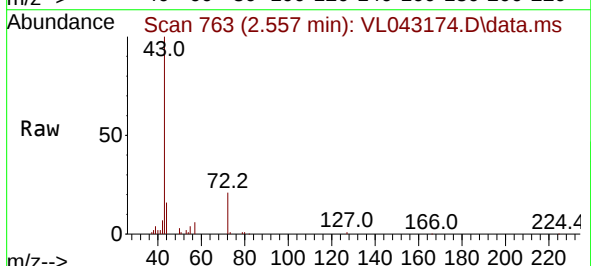
Acq: 06 Nov 2025 18:57

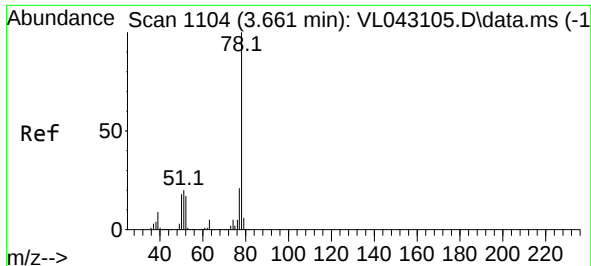
Tgt Ion: 43 Resp: 11822

Ion Ratio Lower Upper

43 100

72 23.0 18.4 27.6

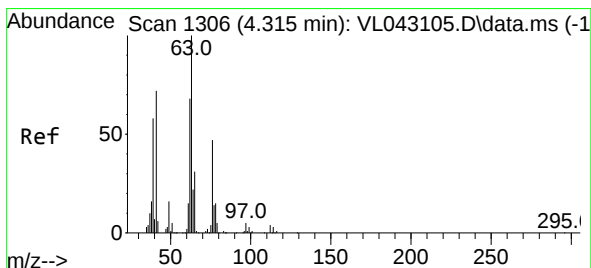
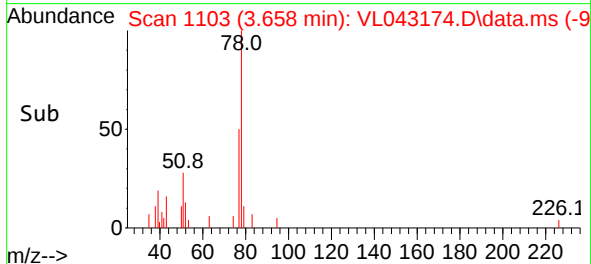
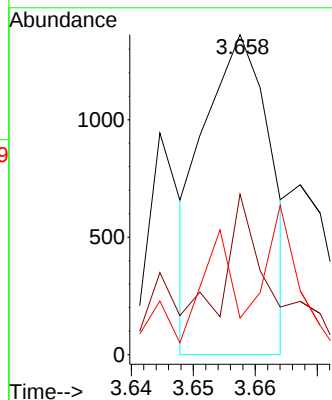
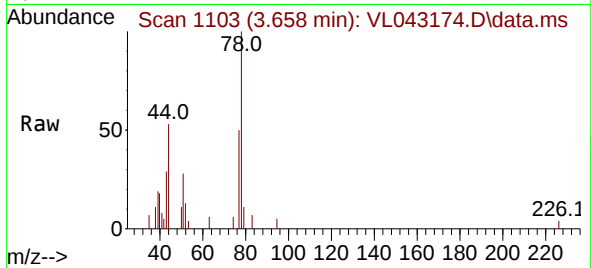




#36
Benzene
Concen: 0.031 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. -0.004 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

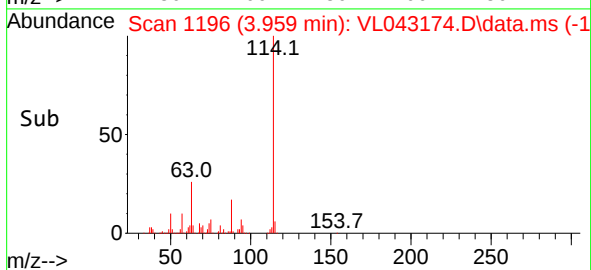
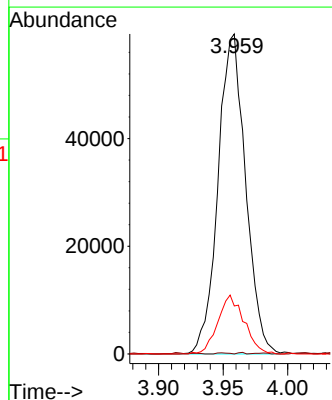
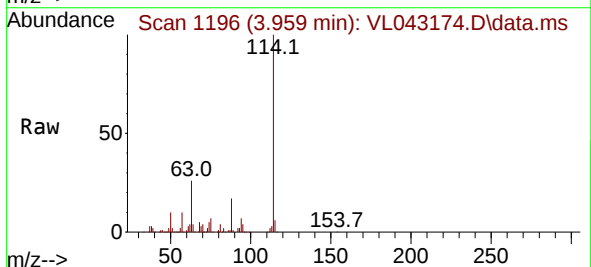
Instrument :
MSVOA_L
ClientSampleId :
151-SG-1

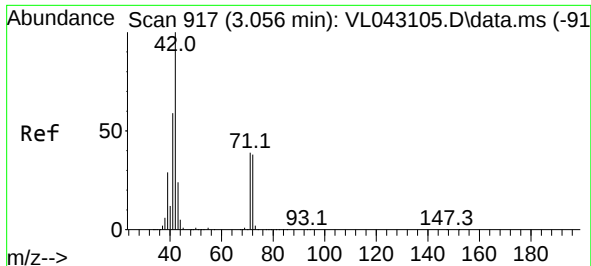
Tgt Ion: 78 Resp: 1017
Ion Ratio Lower Upper
78 100
77 73.3 17.0 25.6#
50 69.9 14.6 22.0#



#39
1,2-Dichloropropane
Concen: 7.453 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.356 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

Tgt Ion: 63 Resp: 88065
Ion Ratio Lower Upper
63 100
41 0.0 58.0 87.0#
62 15.0 54.7 82.1#

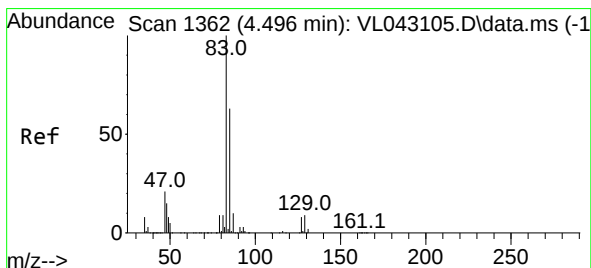
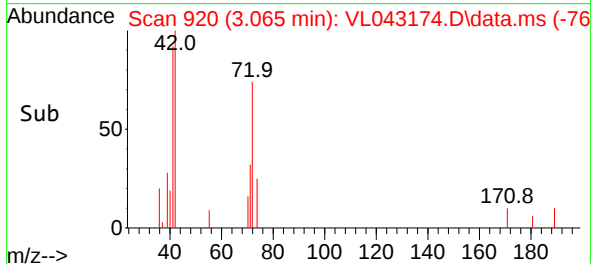
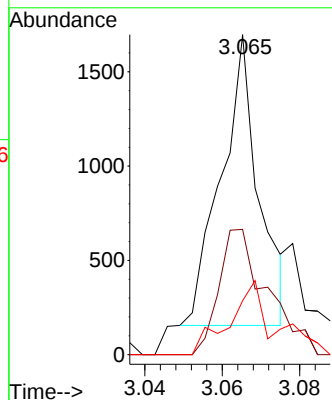
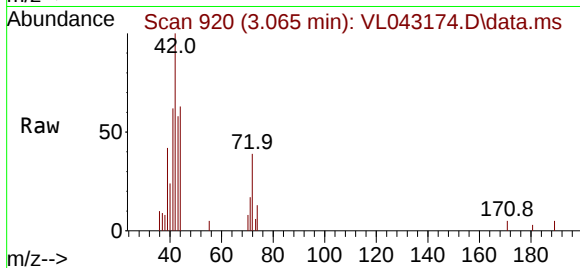




#41
Tetrahydrofuran
Concen: 0.081 ppbv
RT: 3.065 min Scan# 917
Delta R.T. 0.009 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

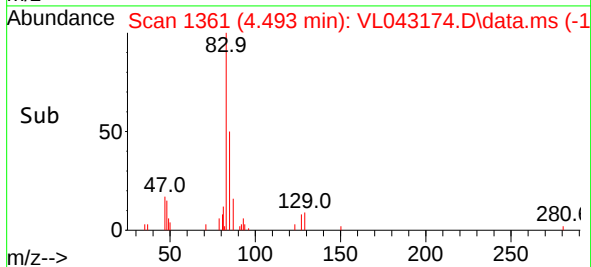
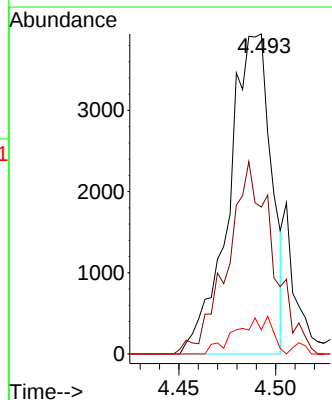
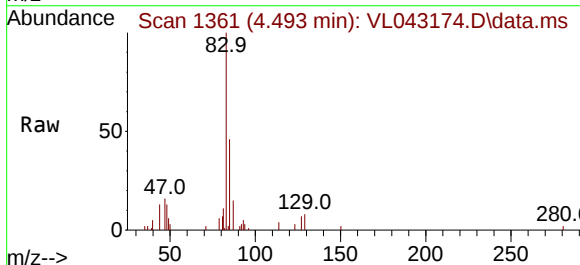
Instrument :
MSVOA_1
ClientSampleId :
151-SG-1

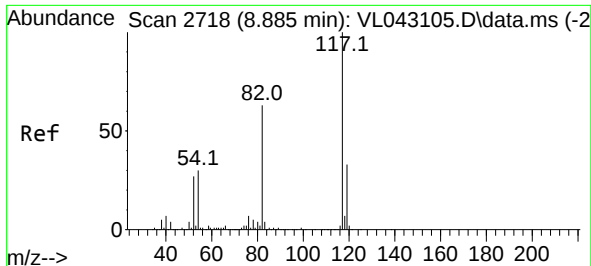
Tgt Ion: 42 Resp: 1040
Ion Ratio Lower Upper
42 100
72 55.3 31.3 46.9#
71 34.3 30.4 45.6



#42
Bromodichloromethane
Concen: 0.234 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. -0.004 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

Tgt Ion: 83 Resp: 6035
Ion Ratio Lower Upper
83 100
85 44.4 50.6 75.8#
127 7.5 6.3 9.5

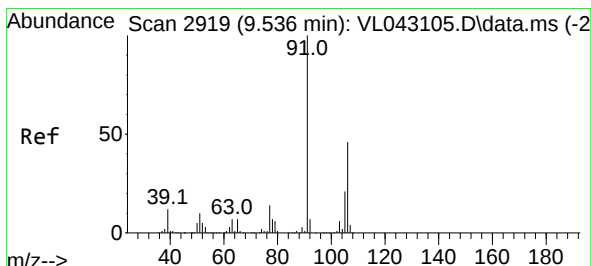
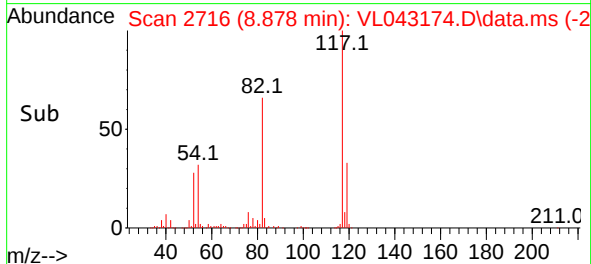
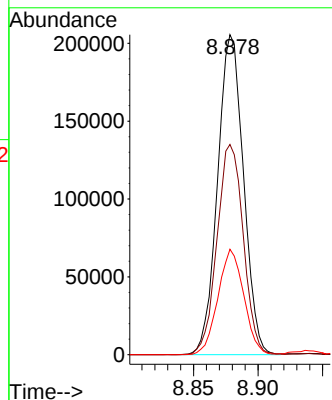
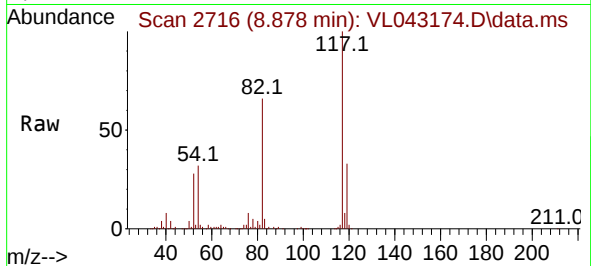




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2117
Delta R.T. -0.007 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

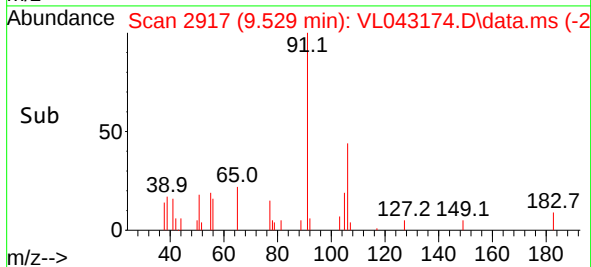
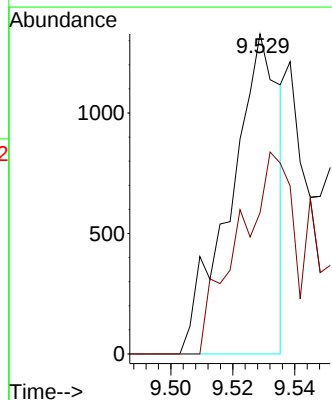
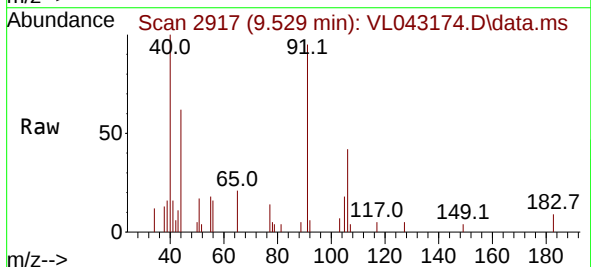
Instrument :
MSVOA_1
ClientSampleId :
151-SG-1

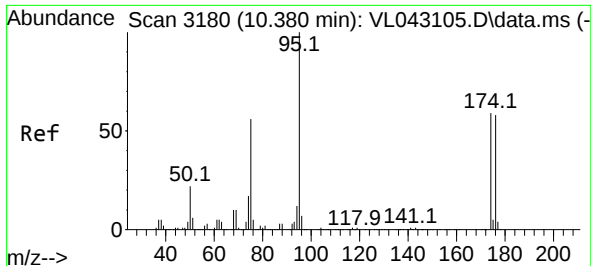
Tgt Ion:117 Resp: 286902
Ion Ratio Lower Upper
117 100
82 66.7 53.8 80.8
119 32.9 25.4 38.0



#59
m/p-Xylene
Concen: 0.037 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.007 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

Tgt Ion: 91 Resp: 1451
Ion Ratio Lower Upper
91 100
106 95.9 38.0 57.0#

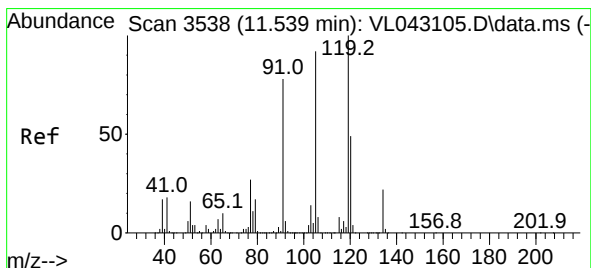
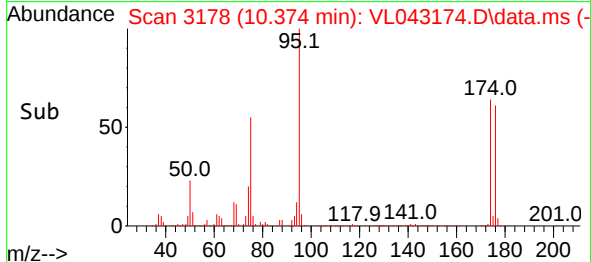
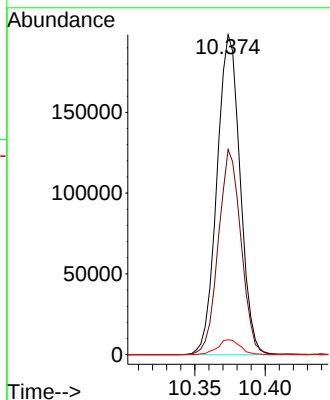
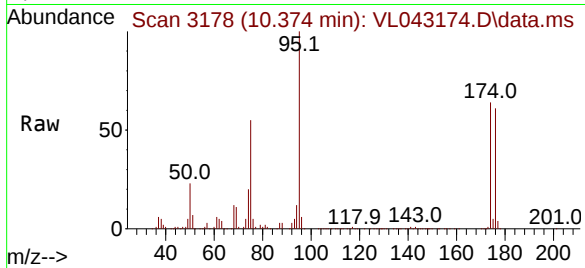




#68
1-Bromo-4-Fluorobenzene
Concen: 10.182 ppbv
RT: 10.374 min Scan# 3180
Delta R.T. -0.007 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

Instrument :
MSVOA_1
ClientSampleId :
151-SG-1

Tgt Ion: 95 Resp: 227062
Ion Ratio Lower Upper
95 100
174 63.1 48.3 72.5
175 4.6 3.8 5.8



#74
1,2,4-Trimethylbenzene
Concen: 0.039 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.010 min
Lab File: VL043174.D
Acq: 06 Nov 2025 18:57

Tgt Ion: 105 Resp: 1738
Ion Ratio Lower Upper
105 100
120 27.9 42.8 64.2#
91 22.6 68.3 102.5#
77 10.6 23.4 35.0#

