

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042909.D
 Acq On : 08 Sep 2025 18:21
 Operator : SY/MD
 Sample : Q3052-04
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Sep 09 00:58:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

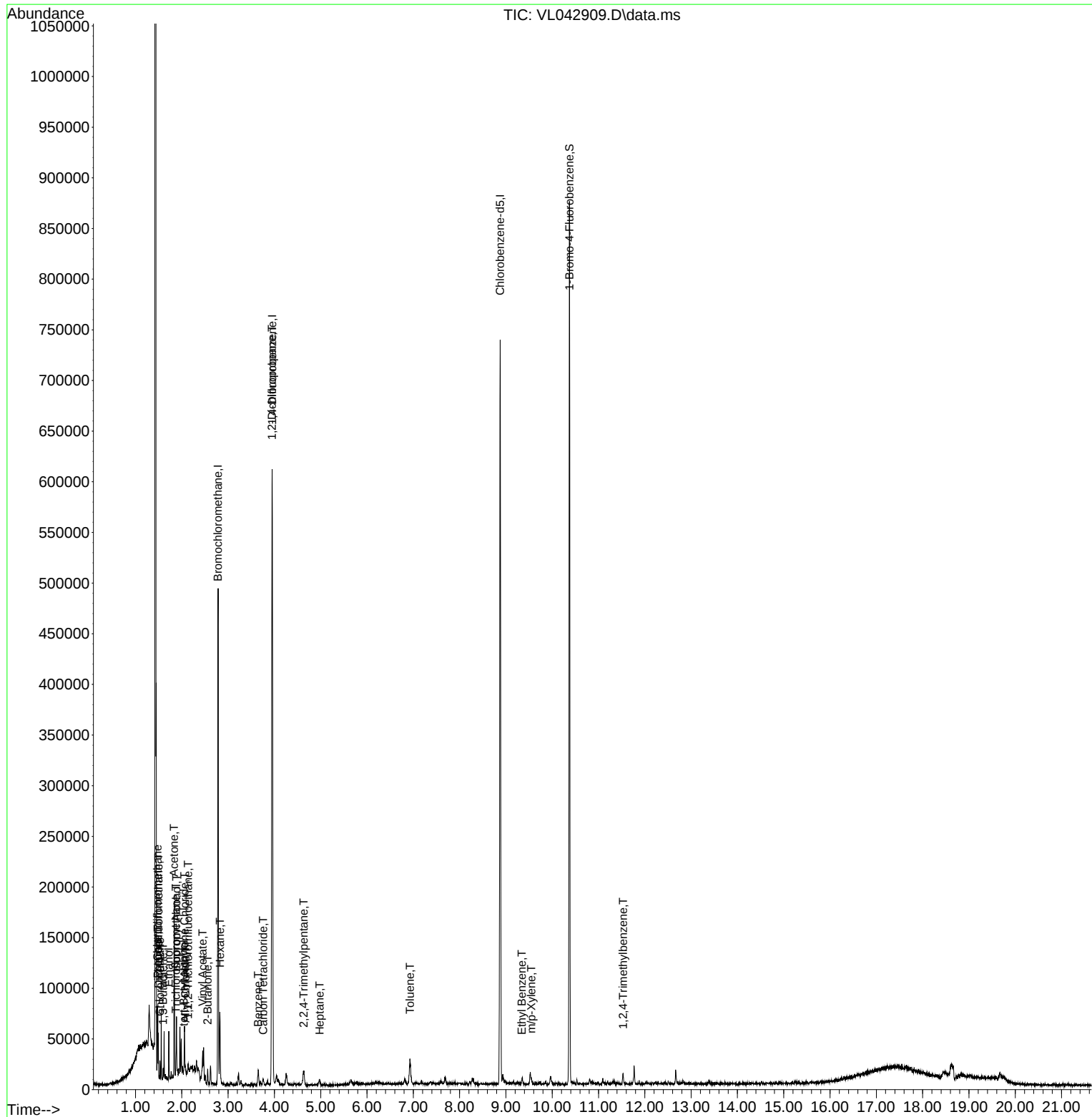
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.781	49	139372	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	343291	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	289088	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	215345	9.933	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	9893	0.484	ppbv	95
3) Chlorodifluoromethane	1.473	51	23114	1.024	ppbv	92
4) Chloromethane	1.528	50	4233	0.514	ppbv	94
9) Propene	1.479	41	7413	0.760	ppbv	95
10) Heptane	4.975	43	1602	0.061	ppbv	89
11) Trichlorofluoromethane	1.874	101	4746	0.236	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.136	101	1156	0.072	ppbv	90
13) Ethanol	1.719	45	15707	17.618	ppbv	100
15) Acetone	1.832	43	73089	3.964	ppbv	95
16) 1,3-Butadiene	1.596	39	1612	0.193	ppbv #	41
17) tert-Butyl alcohol	2.043	59	983	0.045	ppbv #	71
19) Isopropyl Alcohol	1.884	45	24154	2.193	ppbv #	44
20) Methylene Chloride	2.059	84	6484	0.840	ppbv	86
21) Allyl Chloride	2.078	41	392	0.030	ppbv #	1
23) Vinyl Acetate	2.450	43	11529	0.455	ppbv #	91
26) Hexane	2.823	57	13897	0.675	ppbv #	41
34) 2-Butanone	2.557	43	9059	0.391	ppbv	95
35) Carbon Tetrachloride	3.755	117	1622	0.069	ppbv #	66
36) Benzene	3.648	78	8823	0.268	ppbv #	91
39) 1,2-Dichloropropane	3.949	63	91440	7.616	ppbv #	25
44) 2,2,4-Trimethylpentane	4.635	57	1738	0.031	ppbv #	1
53) Toluene	6.927	91	16132	0.413	ppbv	94
58) Ethyl Benzene	9.345	91	1663	0.033	ppbv	95
59) m/p-Xylene	9.548	91	1406	0.035	ppbv #	100
74) 1,2,4-Trimethylbenzene	11.532	105	2361	0.052	ppbv #	56

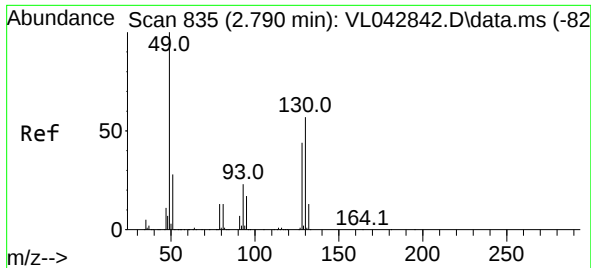
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
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MSVOA_L
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OA1

Quant Time: Sep 09 00:58:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
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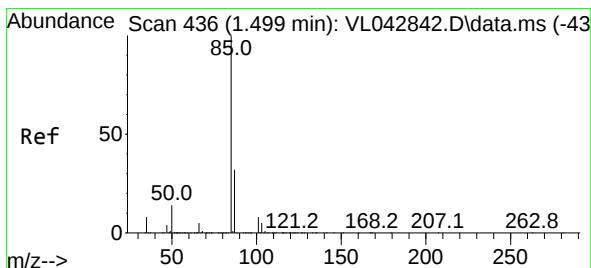
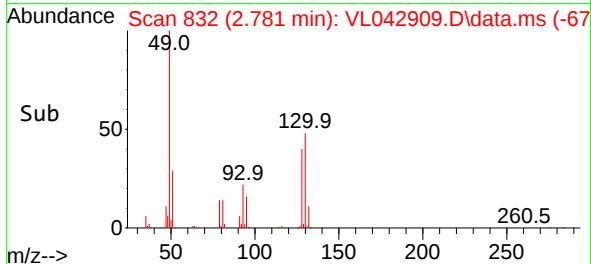
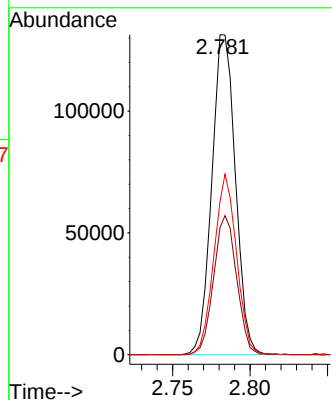
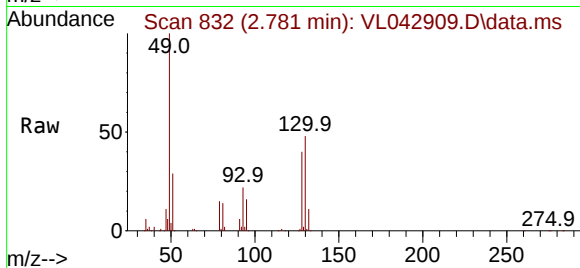




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

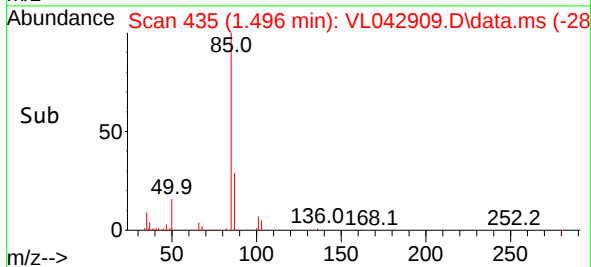
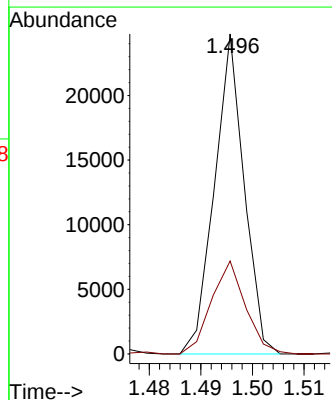
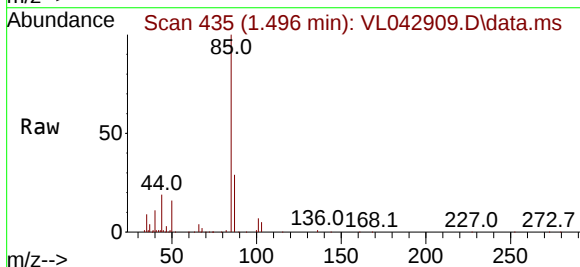
Instrument :
MSVOA_L
ClientSampleId :
OA1

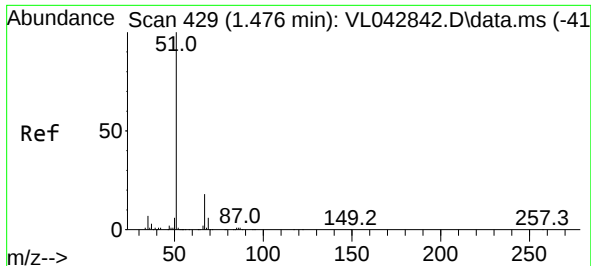
Tgt Ion: 49 Resp: 139372
Ion Ratio Lower Upper
49 100
128 42.3 23.7 71.1
130 54.0 30.6 91.6



#2
Dichlorodifluoromethane
Concen: 0.484 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Tgt Ion: 85 Resp: 9893
Ion Ratio Lower Upper
85 100
87 29.1 25.3 37.9

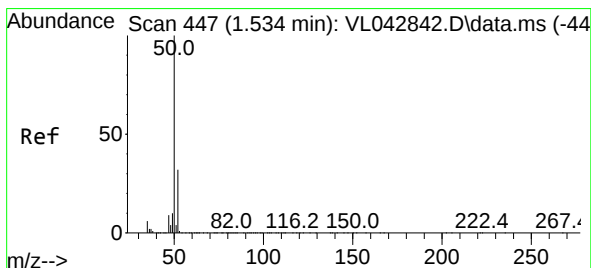
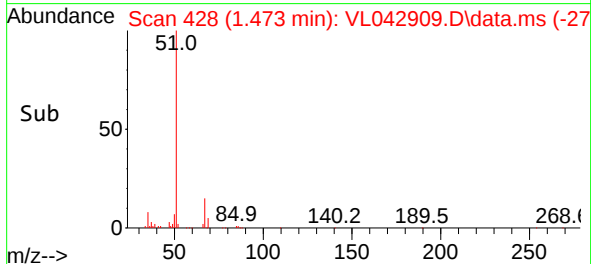
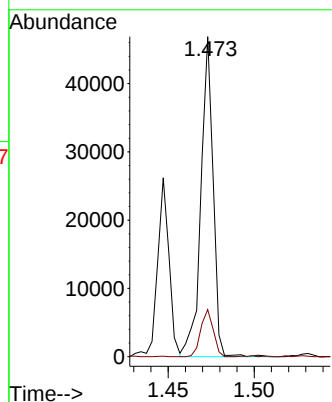
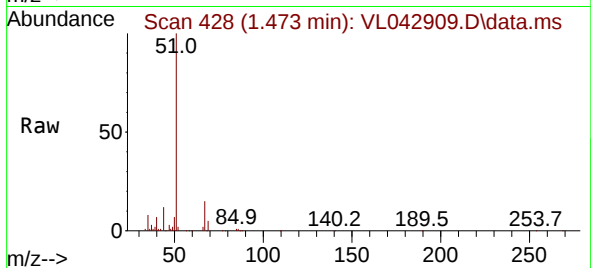




#3
Chlorodifluoromethane
Concen: 1.024 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

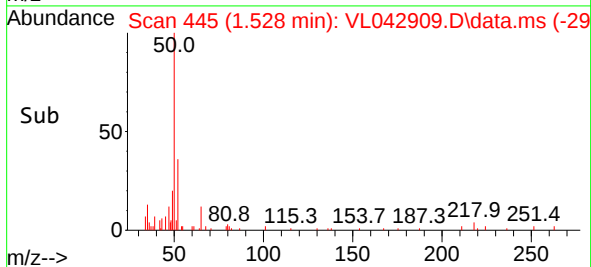
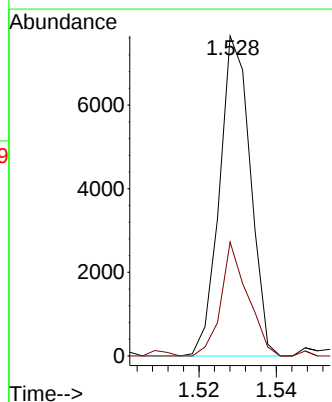
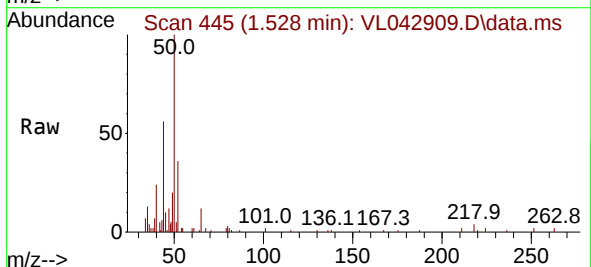
Instrument :
MSVOA_L
ClientSampleId :
OA1

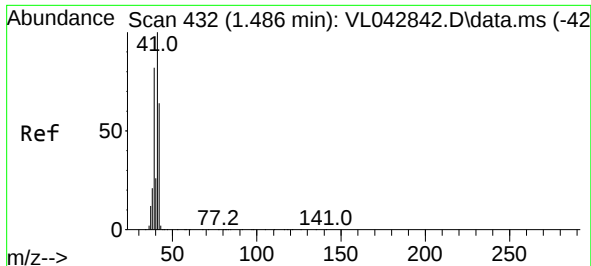
Tgt Ion: 51 Resp: 23114
Ion Ratio Lower Upper
51 100
67 15.2 14.9 22.3



#4
Chloromethane
Concen: 0.514 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Tgt Ion: 50 Resp: 4233
Ion Ratio Lower Upper
50 100
52 35.6 25.9 38.9

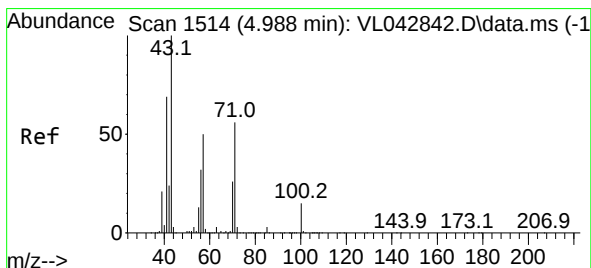
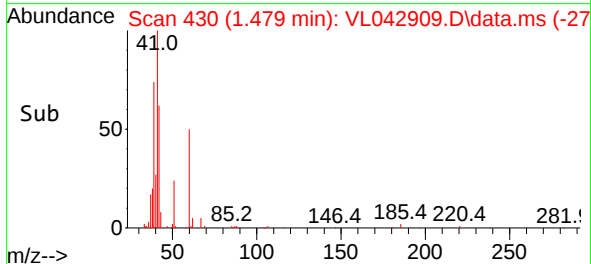
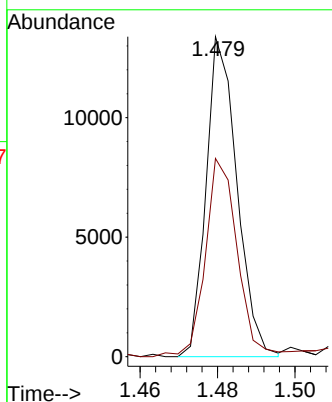
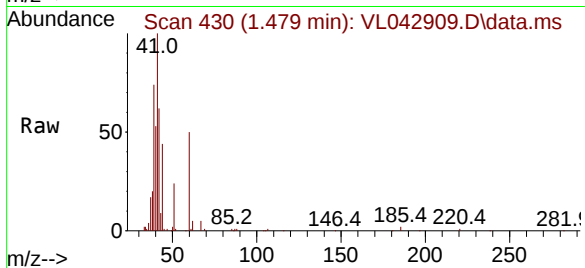




#9
Propene
Concen: 0.760 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

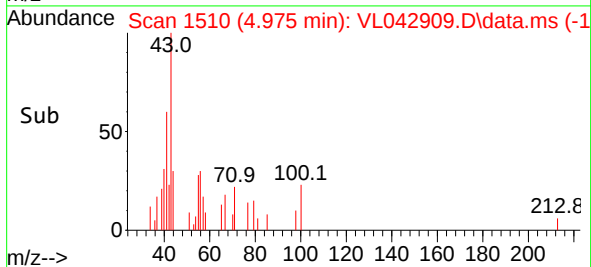
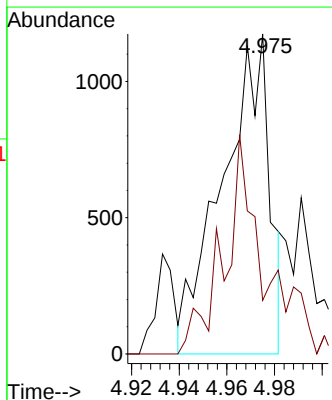
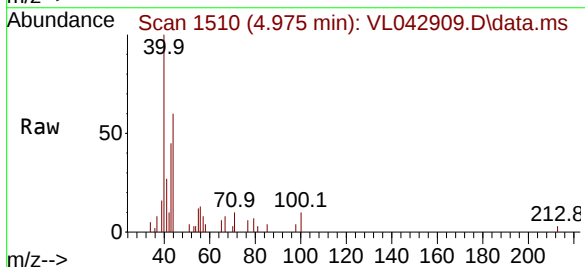
Instrument :
MSVOA_L
ClientSampleId :
OA1

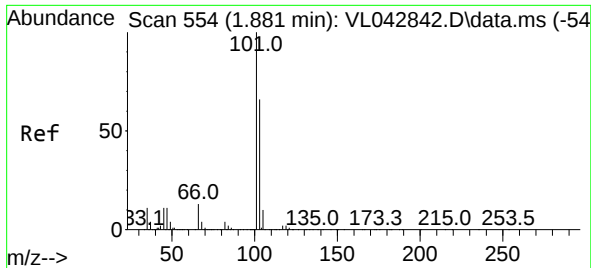
Tgt Ion: 41 Resp: 7413
Ion Ratio Lower Upper
41 100
42 70.5 53.0 79.4



#10
Heptane
Concen: 0.061 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.016 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Tgt Ion: 43 Resp: 1602
Ion Ratio Lower Upper
43 100
57 59.2 41.4 62.0

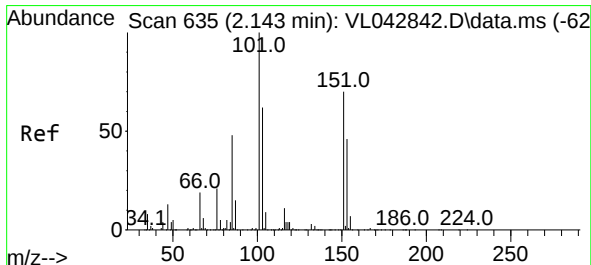
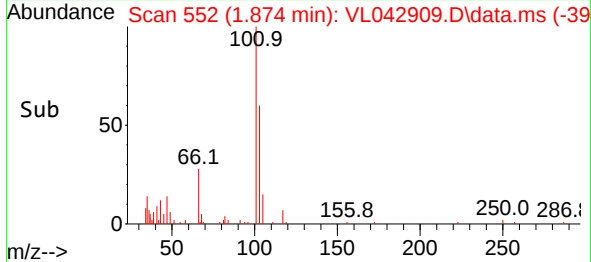
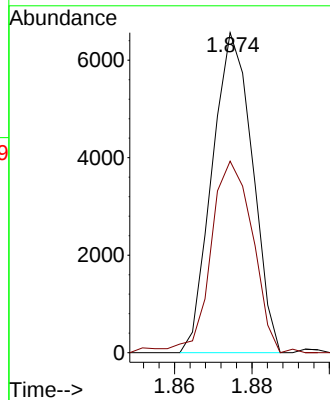
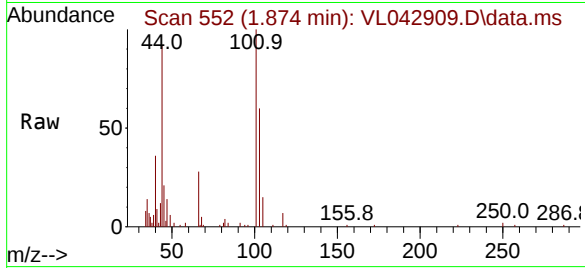




#11
 Trichlorofluoromethane
 Concen: 0.236 ppbv
 RT: 1.874 min Scan# 51
 Delta R.T. 0.003 min
 Lab File: VL042909.D
 Acq: 08 Sep 2025 18:21

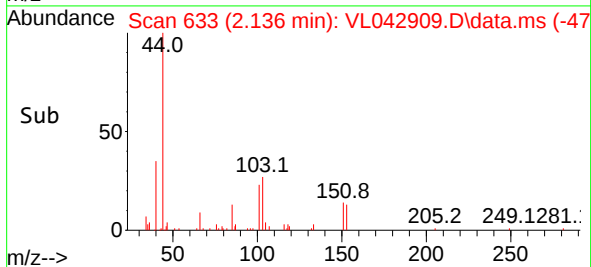
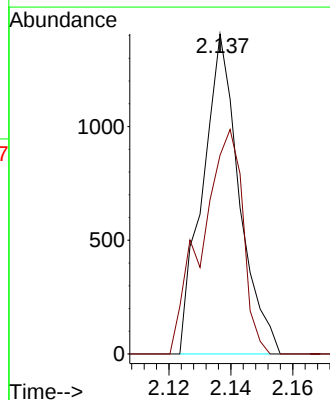
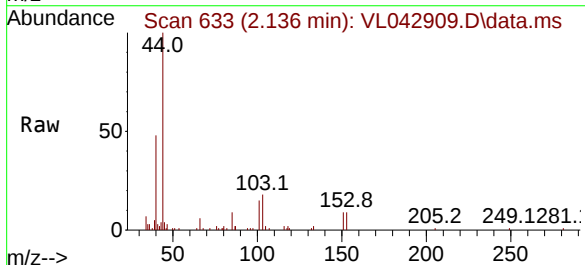
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

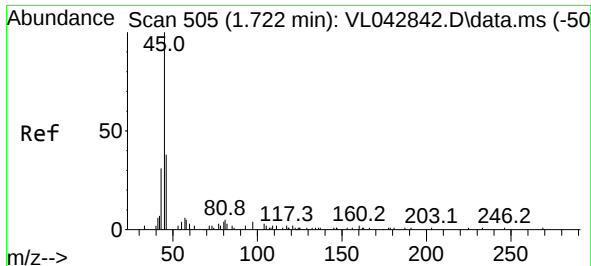
Tgt Ion:101 Resp: 4746
 Ion Ratio Lower Upper
 101 100
 103 59.9 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.072 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. 0.003 min
 Lab File: VL042909.D
 Acq: 08 Sep 2025 18:21

Tgt Ion:101 Resp: 1156
 Ion Ratio Lower Upper
 101 100
 151 78.4 56.4 84.6

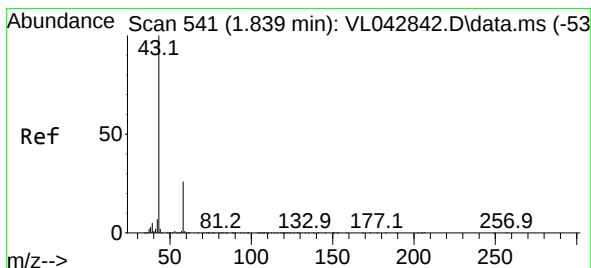
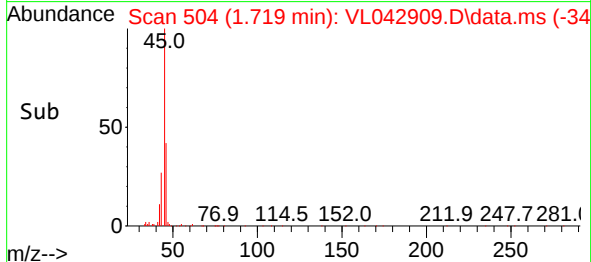
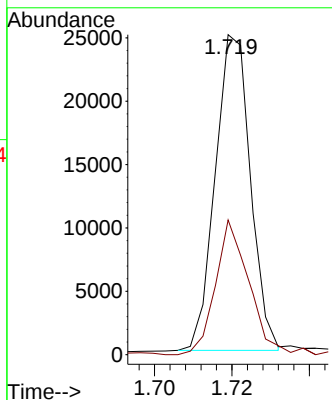
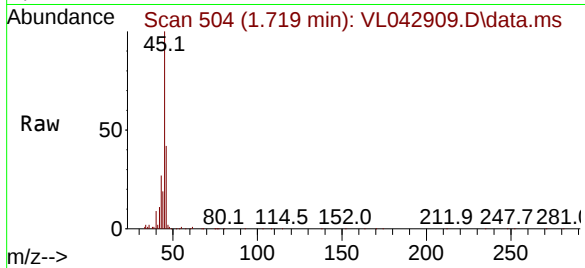




#13
 Ethanol
 Concen: 17.618 ppbv
 RT: 1.719 min Scan# 504
 Delta R.T. 0.003 min
 Lab File: VL042909.D
 Acq: 08 Sep 2025 18:21

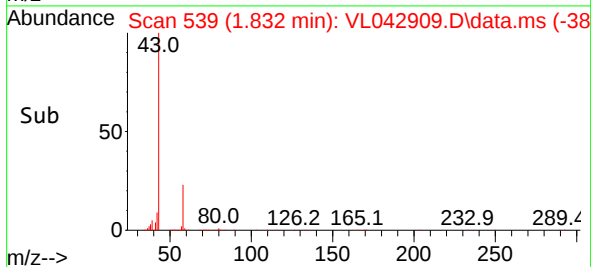
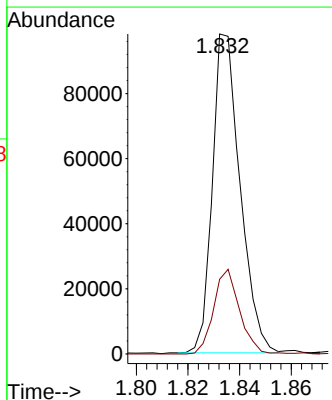
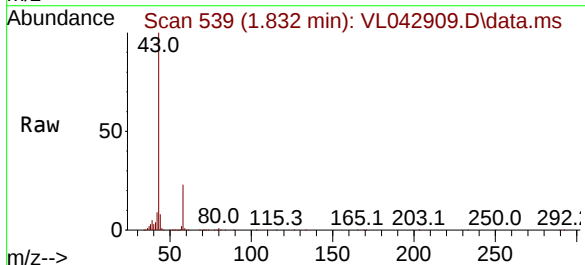
Instrument :
 MSVOA_L
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 OA1

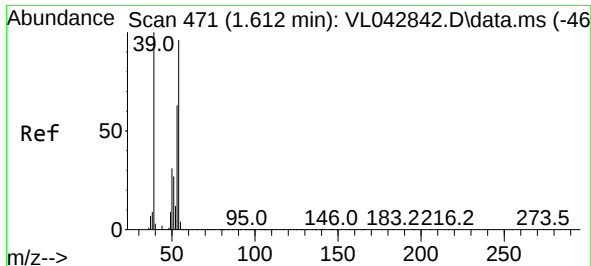
Tgt Ion: 45 Resp: 15707
 Ion Ratio Lower Upper
 45 100
 46 43.4 17.5 69.9



#15
 Acetone
 Concen: 3.964 ppbv
 RT: 1.832 min Scan# 539
 Delta R.T. 0.003 min
 Lab File: VL042909.D
 Acq: 08 Sep 2025 18:21

Tgt Ion: 43 Resp: 73089
 Ion Ratio Lower Upper
 43 100
 58 25.5 22.4 33.6





#16

1,3-Butadiene

Concen: 0.193 ppbv

RT: 1.596 min Scan# 4

Delta R.T. -0.006 min

Lab File: VL042909.D

Acq: 08 Sep 2025 18:21

Instrument :

MSVOA_L

ClientSampleId :

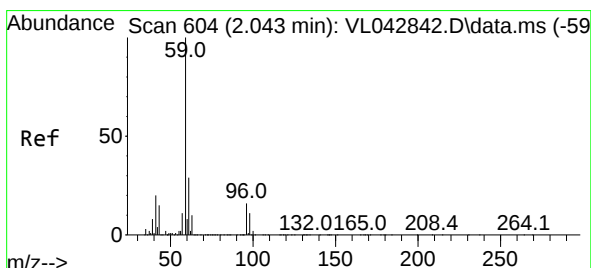
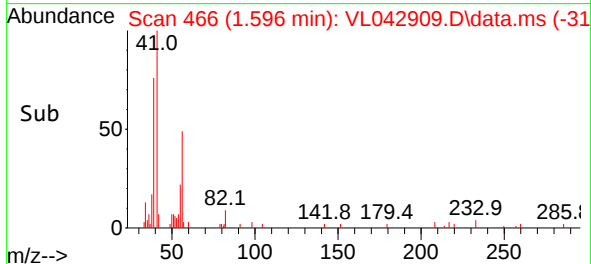
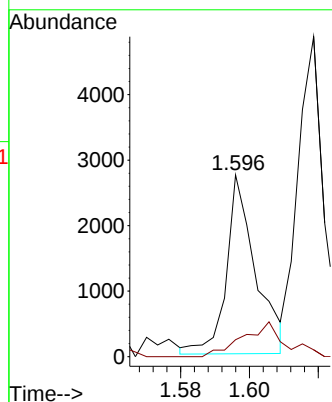
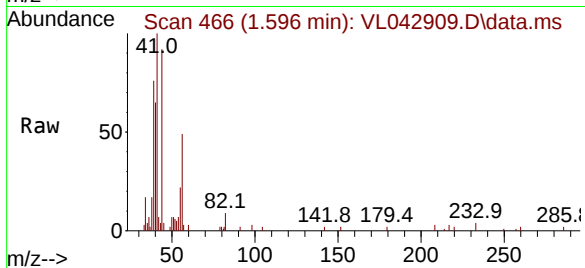
OA1

Tgt Ion: 39 Resp: 1612

Ion Ratio Lower Upper

39 100

54 27.7 63.6 95.4#



#17

tert-Butyl alcohol

Concen: 0.045 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.010 min

Lab File: VL042909.D

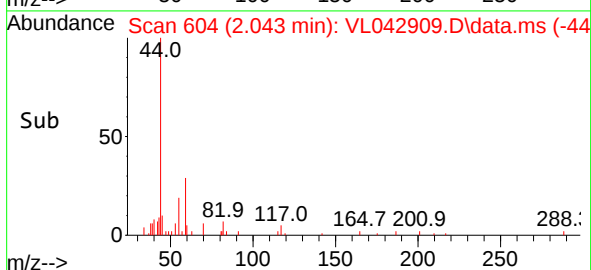
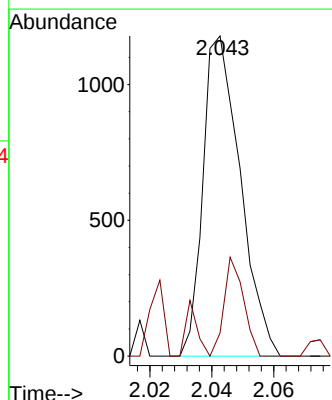
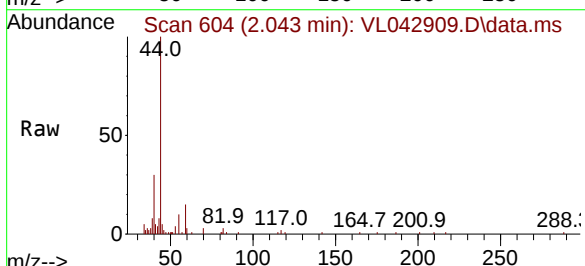
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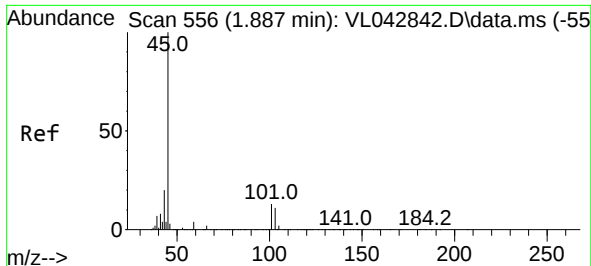
Tgt Ion: 59 Resp: 983

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#

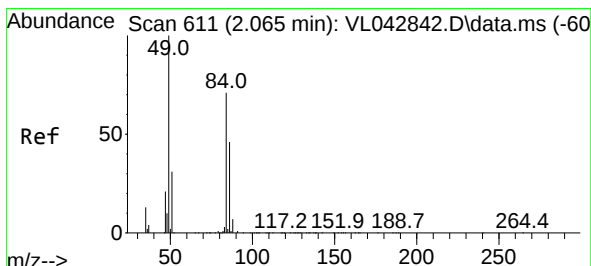
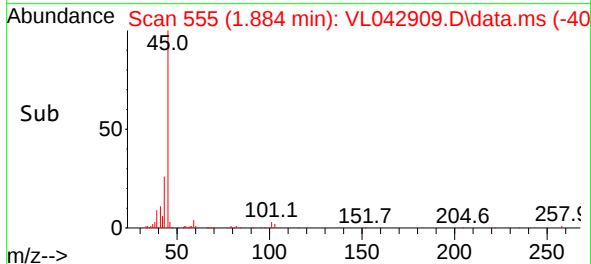
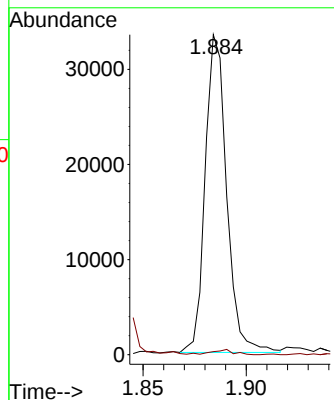
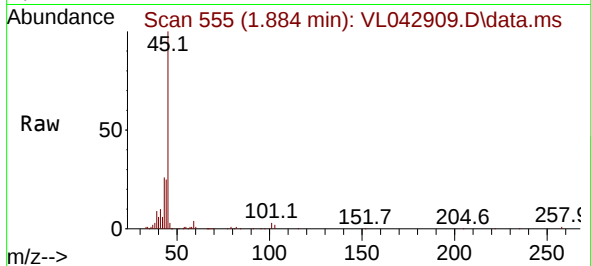




#19
Isopropyl Alcohol
Concen: 2.193 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

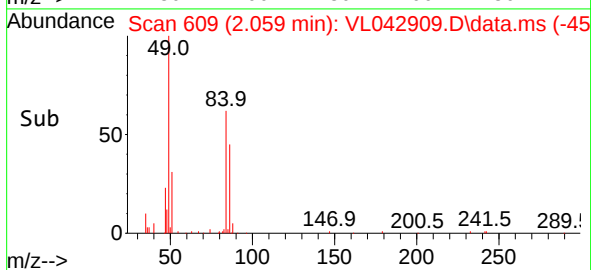
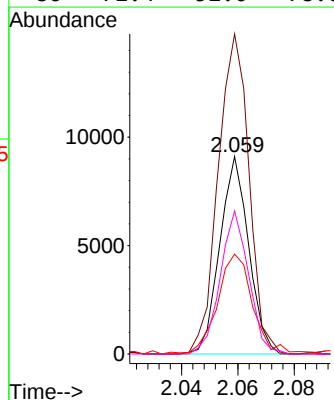
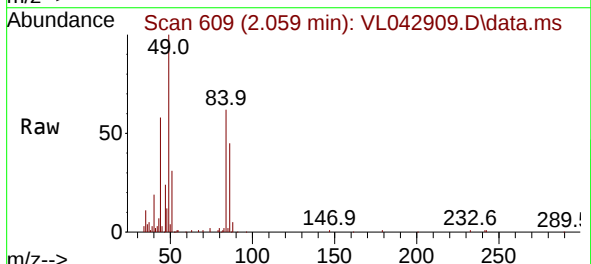
Instrument :
MSVOA_L
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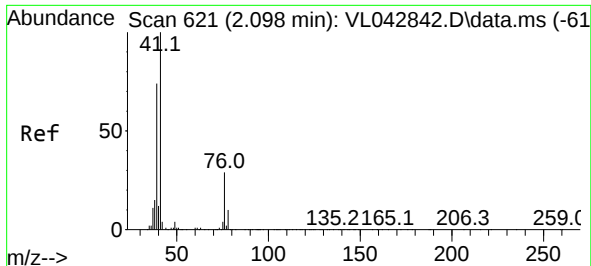
Tgt Ion: 45 Resp: 24154
Ion Ratio Lower Upper
45 100
58 75.7 32.7 49.1#



#20
Methylene Chloride
Concen: 0.840 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Tgt Ion: 84 Resp: 6484
Ion Ratio Lower Upper
84 100
49 162.1 112.3 168.5
51 50.0 36.0 54.0
86 72.4 52.0 78.0





#21

Allyl Chloride

Concen: 0.030 ppbv

RT: 2.078 min Scan# 61

Delta R.T. -0.010 min

Lab File: VL042909.D

Acq: 08 Sep 2025 18:21

Instrument :

MSVOA_L

ClientSampleId :

OA1

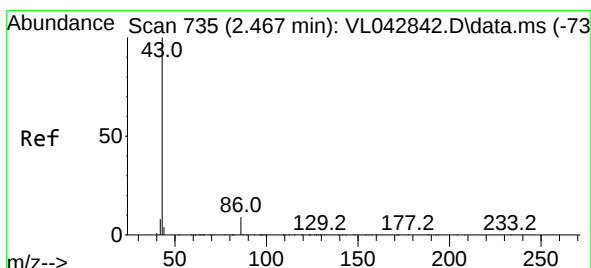
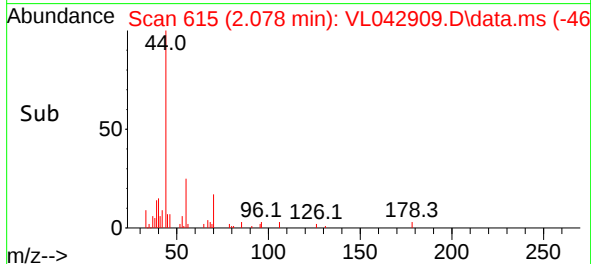
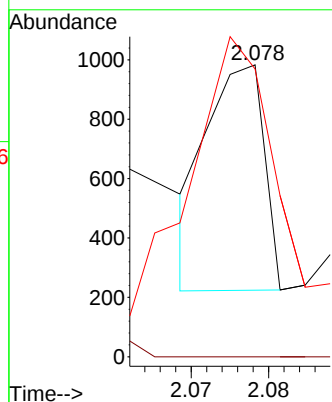
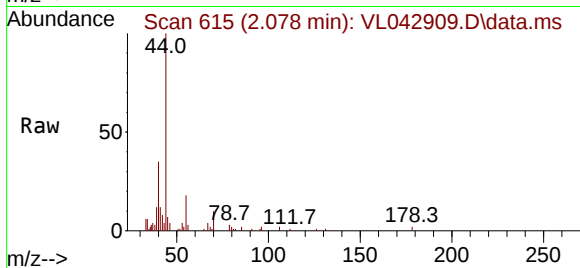
Tgt Ion: 41 Resp: 392

Ion Ratio Lower Upper

41 100

76 0.0 23.9 35.9#

39 308.9 57.8 86.6#



#23

Vinyl Acetate

Concen: 0.455 ppbv

RT: 2.450 min Scan# 730

Delta R.T. -0.003 min

Lab File: VL042909.D

Acq: 08 Sep 2025 18:21

Tgt Ion: 43 Resp: 11529

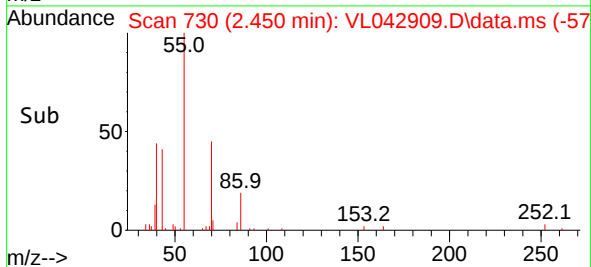
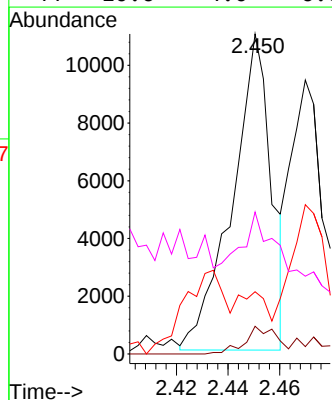
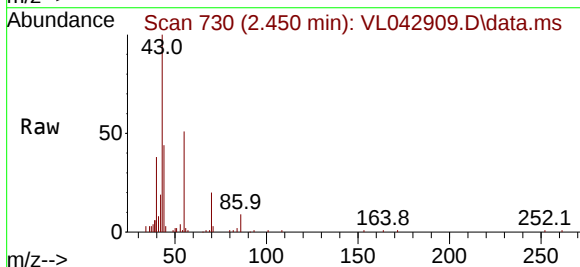
Ion Ratio Lower Upper

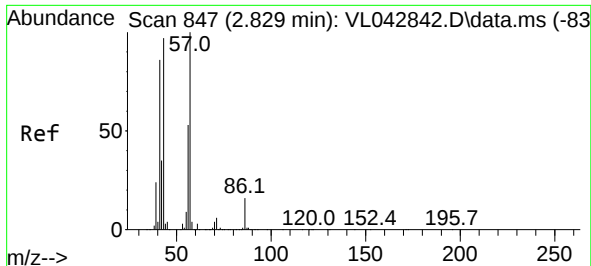
43 100

86 8.9 6.6 9.8

42 4.4 7.0 10.6#

44 10.6 4.0 6.0#

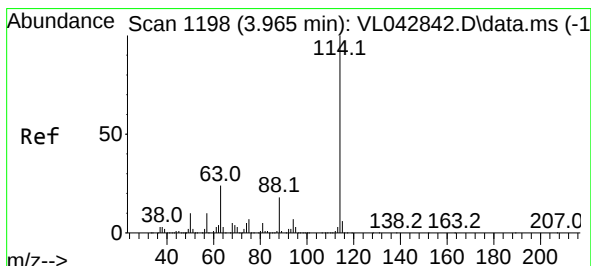
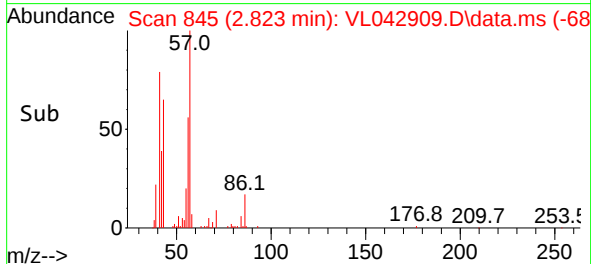
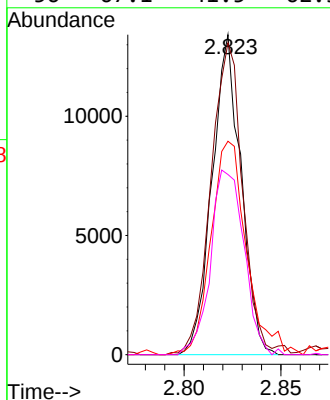
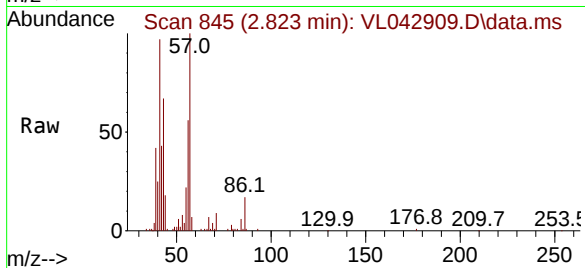




#26
Hexane
Concen: 0.675 ppbv
RT: 2.823 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

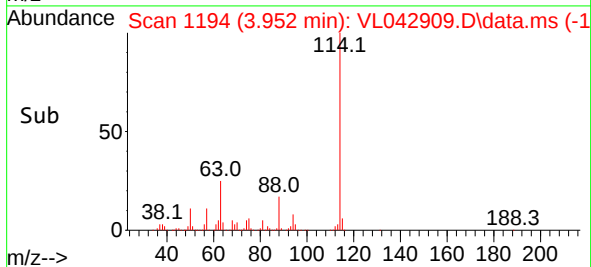
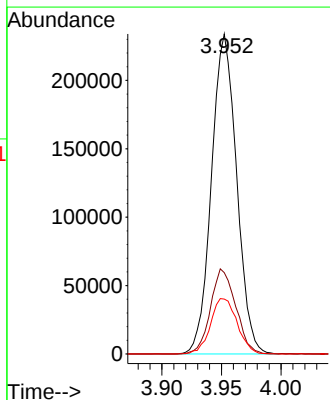
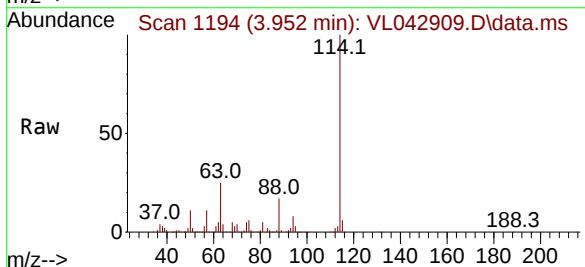
Instrument :
MSVOA_L
ClientSampleId :
OA1

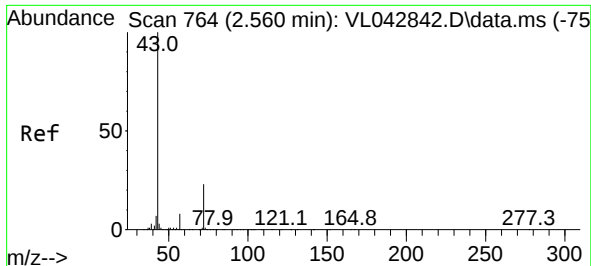
Tgt Ion: 57 Resp: 13897
Ion Ratio Lower Upper
57 100
41 111.0 68.6 103.0#
43 82.8 168.5 252.7#
56 67.1 41.5 62.3#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.010 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Tgt Ion: 114 Resp: 343291
Ion Ratio Lower Upper
114 100
63 26.7 19.7 29.5
88 18.3 14.4 21.6

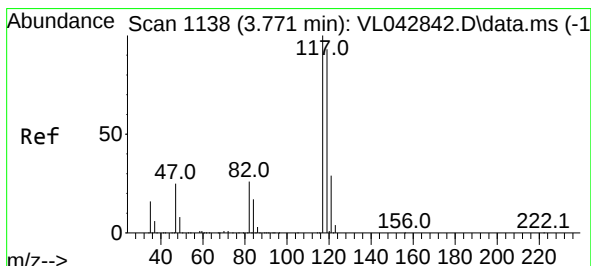
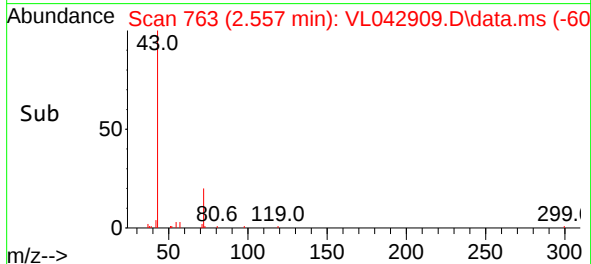
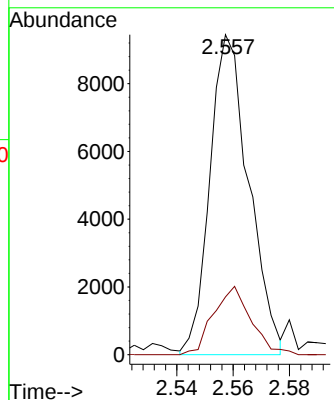
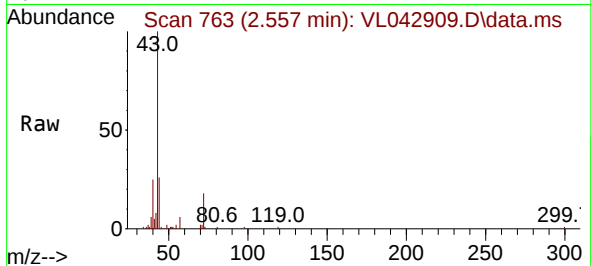




#34
2-Butanone
Concen: 0.391 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.010 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

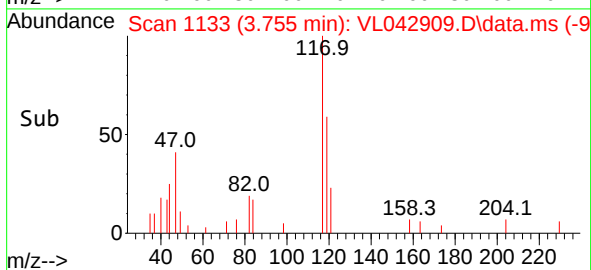
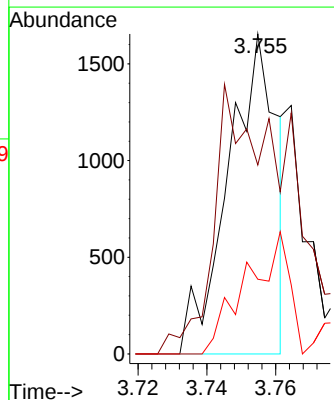
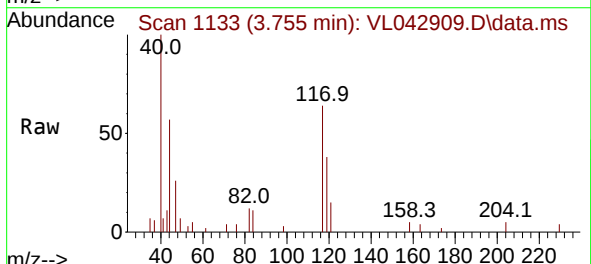
Instrument :
MSVOA_L
ClientSampleId :
OA1

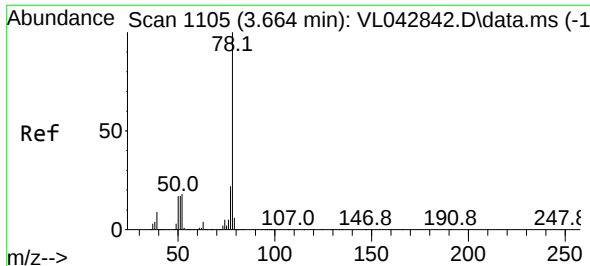
Tgt Ion: 43 Resp: 9059
Ion Ratio Lower Upper
43 100
72 20.7 18.6 28.0



#35
Carbon Tetrachloride
Concen: 0.069 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. 0.006 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Tgt Ion: 117 Resp: 1622
Ion Ratio Lower Upper
117 100
119 54.0 74.7 112.1#
121 23.3 23.2 34.8

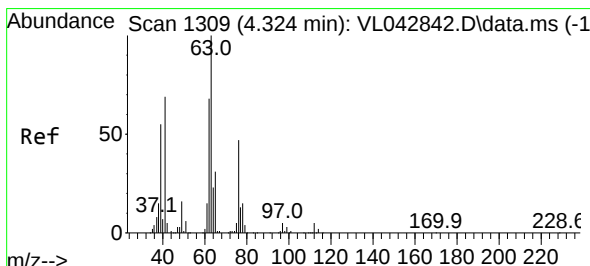
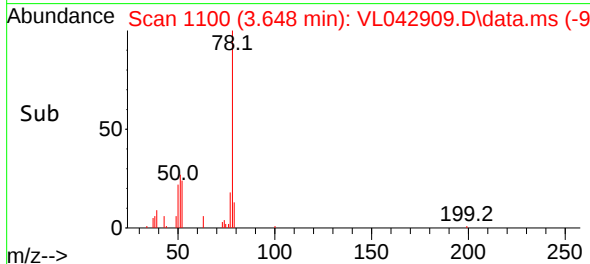
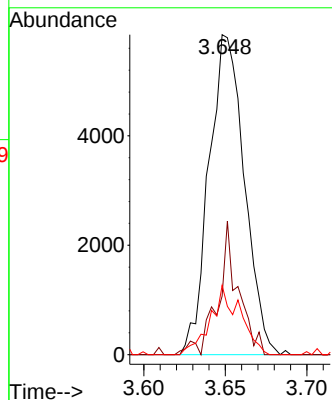
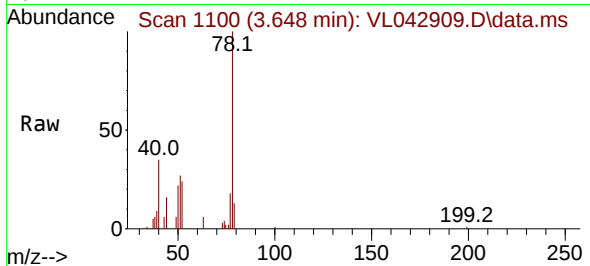




#36
Benzene
Concen: 0.268 ppbv
RT: 3.648 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

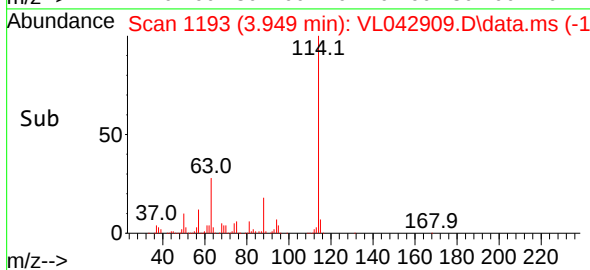
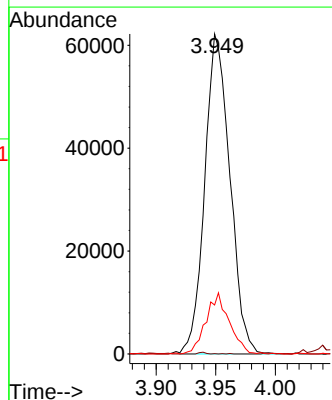
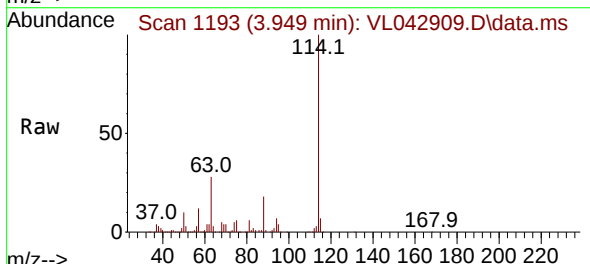
Instrument :
MSVOA_L
ClientSampleId :
OA1

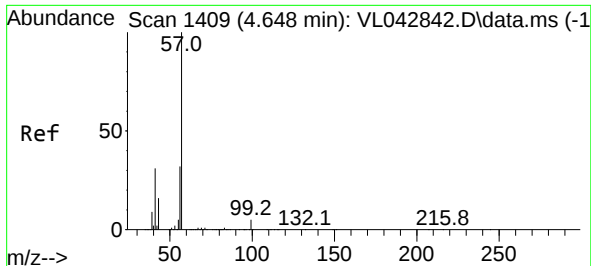
Tgt Ion: 78 Resp: 8823
Ion Ratio Lower Upper
78 100
77 18.3 17.7 26.5
50 21.6 13.9 20.9#



#39
1,2-Dichloropropane
Concen: 7.616 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.350 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Tgt Ion: 63 Resp: 91440
Ion Ratio Lower Upper
63 100
41 0.1 55.0 82.4#
62 15.3 54.4 81.6#

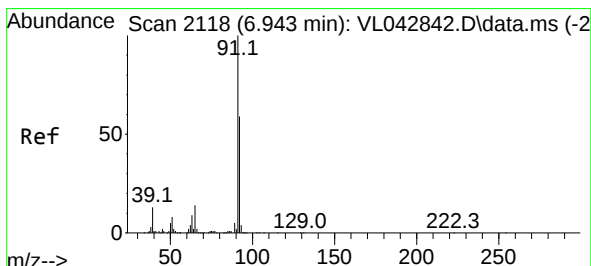
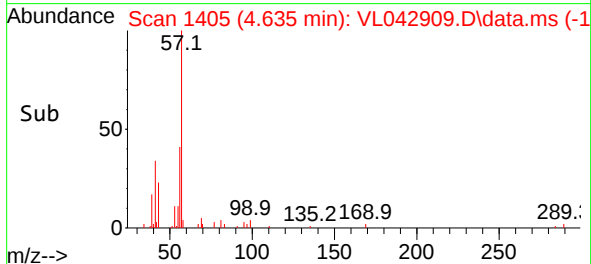
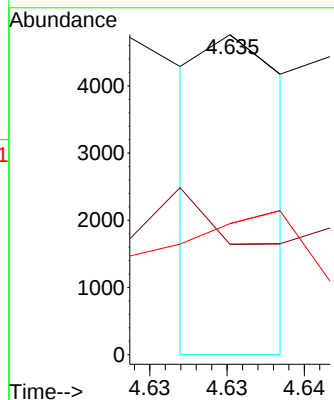
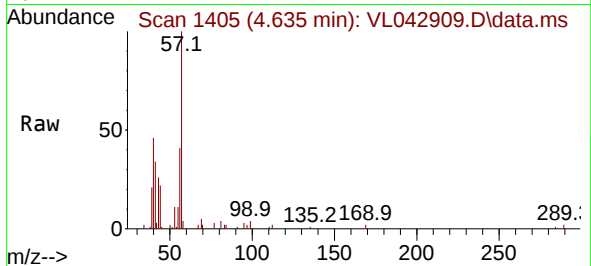




#44
2,2,4-Trimethylpentane
Concen: 0.031 ppbv
RT: 4.635 min Scan# 1409
Delta R.T. 0.013 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

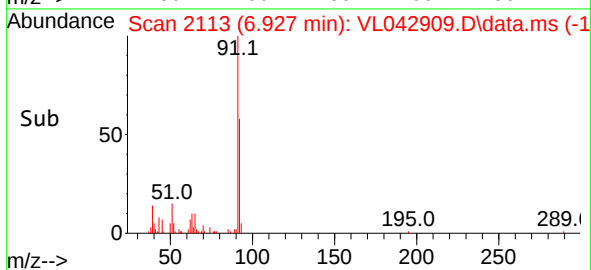
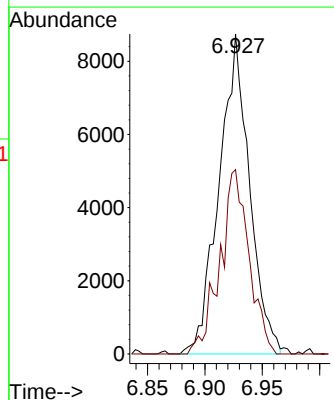
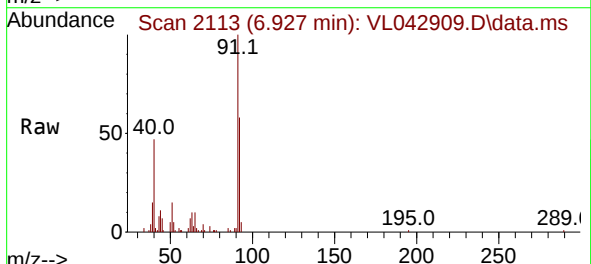
Instrument :
MSVOA_L
ClientSampleId :
OA1

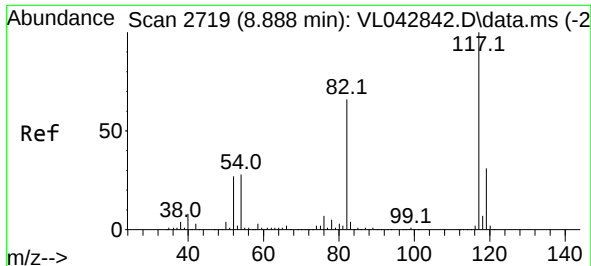
Tgt Ion: 57 Resp: 1738
Ion Ratio Lower Upper
57 100
41 300.9 24.8 37.2#
56 0.0 25.5 38.3#



#53
Toluene
Concen: 0.413 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.013 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Tgt Ion: 91 Resp: 16132
Ion Ratio Lower Upper
91 100
92 55.0 47.8 71.6

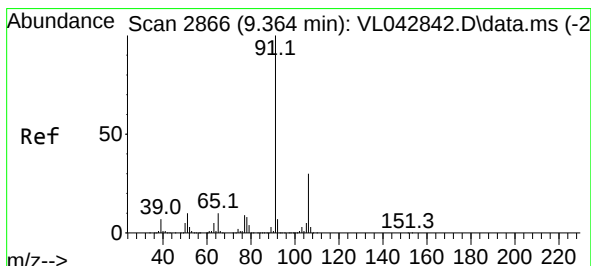
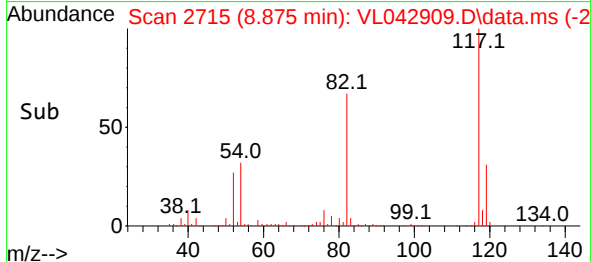
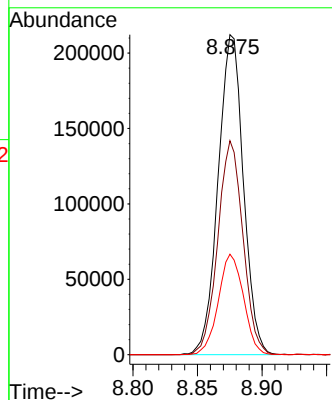
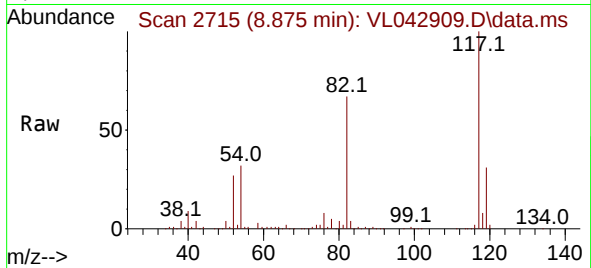




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

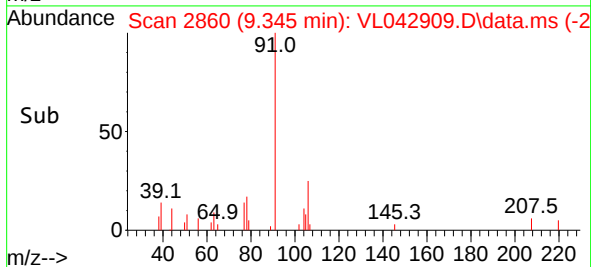
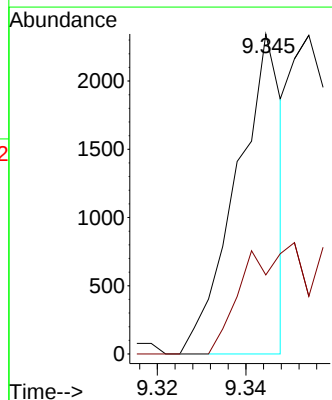
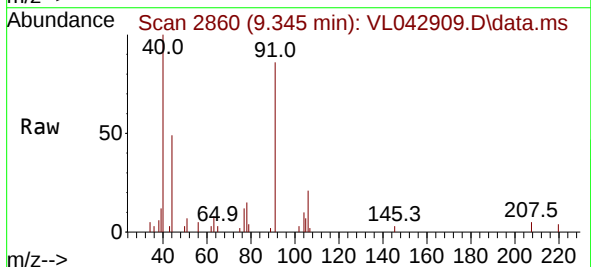
Instrument :
MSVOA_L
ClientSampleId :
OA1

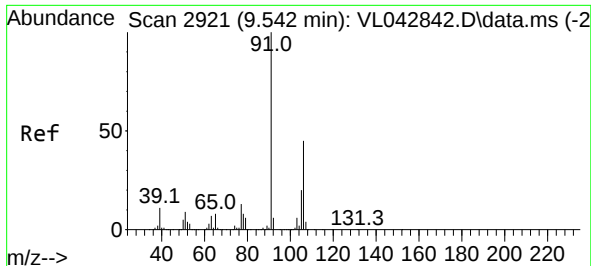
Tgt Ion:117 Resp: 289088
Ion Ratio Lower Upper
117 100
82 66.6 54.6 81.8
119 31.2 25.9 38.9



#58
Ethyl Benzene
Concen: 0.033 ppbv
RT: 9.345 min Scan# 2860
Delta R.T. -0.000 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Tgt Ion: 91 Resp: 1663
Ion Ratio Lower Upper
91 100
106 27.4 23.9 35.9

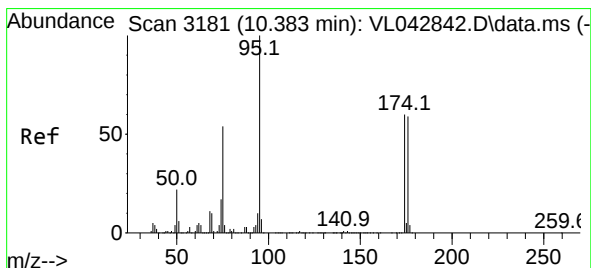
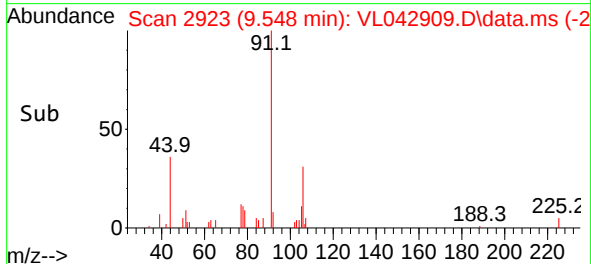
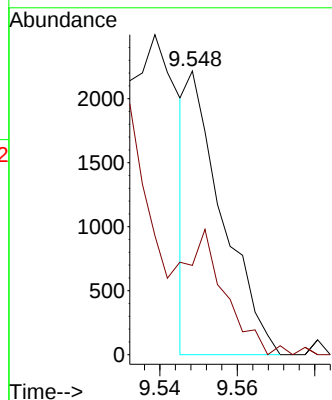
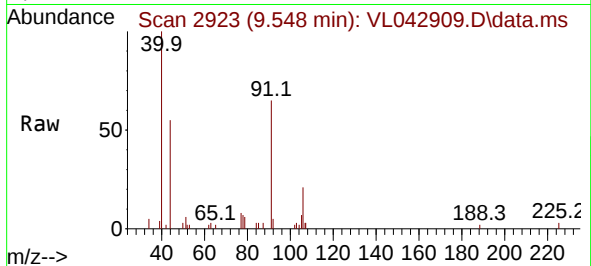




#59
m/p-Xylene
Concen: 0.035 ppbv
RT: 9.548 min Scan# 2921
Delta R.T. 0.010 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

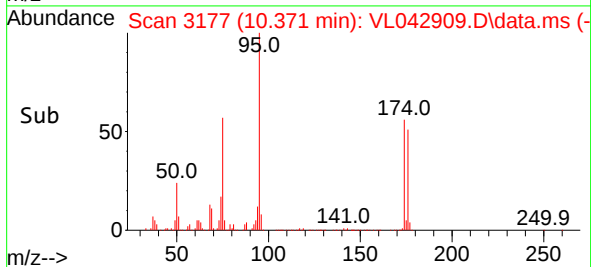
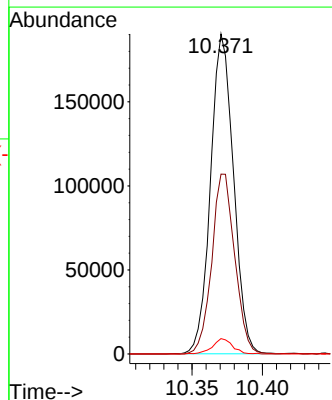
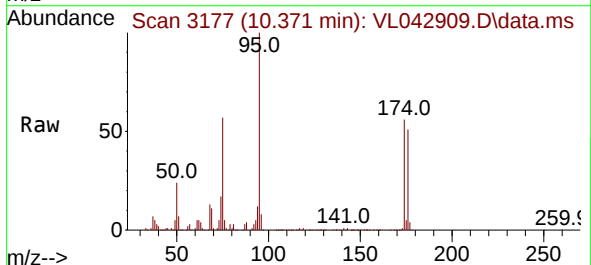
Instrument :
MSVOA_L
ClientSampleId :
OA1

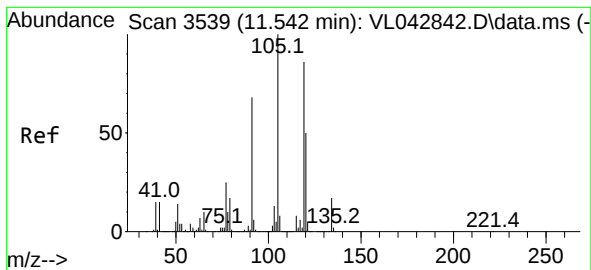
Tgt Ion: 91 Resp: 1406
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.933 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.006 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Tgt Ion: 95 Resp: 215345
Ion Ratio Lower Upper
95 100
174 56.4 48.4 72.6
175 4.2 3.8 5.8





#74

1,2,4-Trimethylbenzene

Concen: 0.052 ppbv

RT: 11.532 min Scan# 3

Delta R.T. 0.003 min

Lab File: VL042909.D

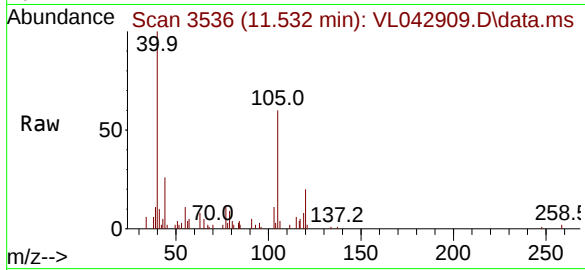
Acq: 08 Sep 2025 18:21

Instrument :

MSVOA_L

ClientSampleId :

OA1



Tgt Ion:105 Resp: 2361

Ion Ratio Lower Upper

105 100

120 37.5 39.8 59.6#

91 8.7 54.2 81.4#

77 17.9 19.8 29.6#

