

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042260.D
 Acq On : 08 Apr 2025 13:07
 Operator : SY/MD
 Sample : Q1728-06 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-5-04022025

Quant Time: Apr 09 01:54:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

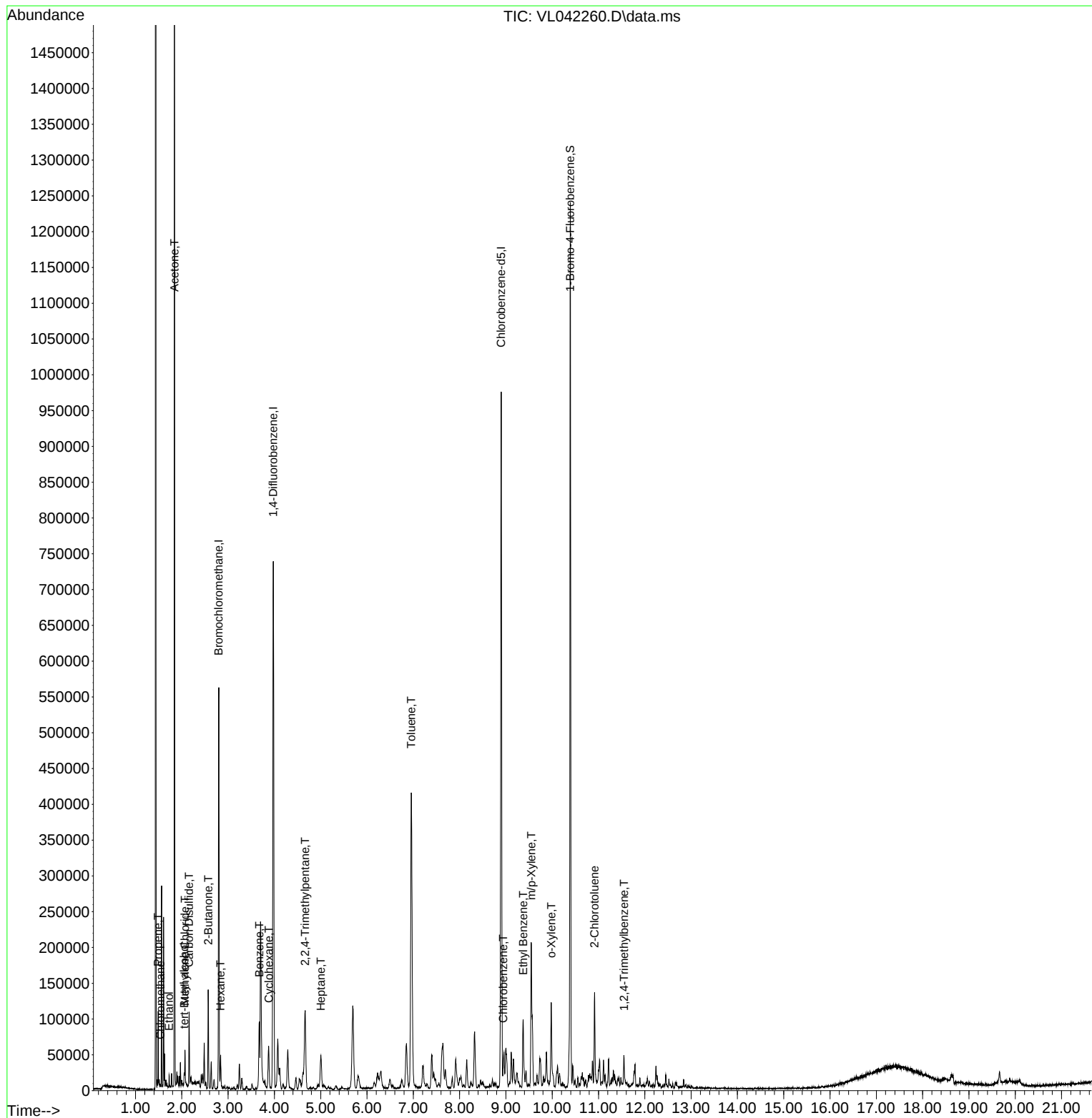
Internal Standards						
1) Bromochloromethane	2.797	49	155754	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.975	114	446160	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	402493	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	315753	9.553	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.500%
Target Compounds						
					Qvalue	
4) Chloromethane	1.538	50	942	0.100	ppbv	95
9) Propene	1.489	41	15937	1.480	ppbv	89
10) Heptane	5.004	43	19390	0.677	ppbv	97
13) Ethanol	1.726	45	5656	5.556	ppbv	80
15) Acetone	1.842	43	887725	40.753	ppbv	99
17) tert-Butyl alcohol	2.052	59	6563	0.242	ppbv #	88
20) Methylene Chloride	2.069	84	7394	0.911	ppbv	95
26) Hexane	2.839	57	9788	0.448	ppbv #	32
27) Carbon Disulfide	2.159	76	56360	2.407	ppbv #	97
30) Cyclohexane	3.878	84	15879	0.837	ppbv #	85
34) 2-Butanone	2.570	43	86784	2.682	ppbv	98
36) Benzene	3.674	78	58697	1.327	ppbv	94
44) 2,2,4-Trimethylpentane	4.664	57	98142	1.313	ppbv #	85
53) Toluene	6.956	91	298949	5.702	ppbv	98
57) Chlorobenzene	8.940	112	4055	0.106	ppbv #	79
58) Ethyl Benzene	9.374	91	50951	0.713	ppbv	91
59) m/p-Xylene	9.549	91	120893	2.118	ppbv	98
60) o-Xylene	9.979	91	50208	0.877	ppbv	95
71) 2-Chlorotoluene	10.914	91	37512	0.565	ppbv	97
74) 1,2,4-Trimethylbenzene	11.549	105	14207	0.198	ppbv #	70

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

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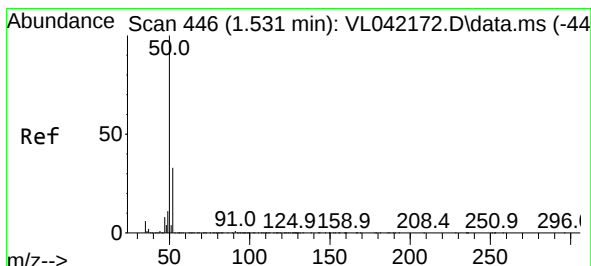
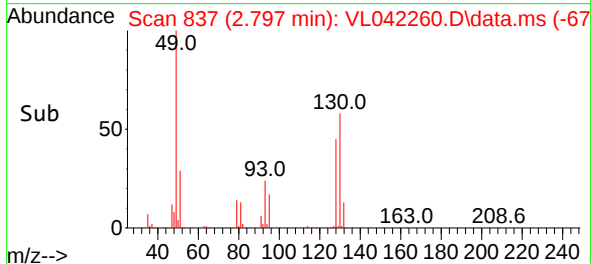
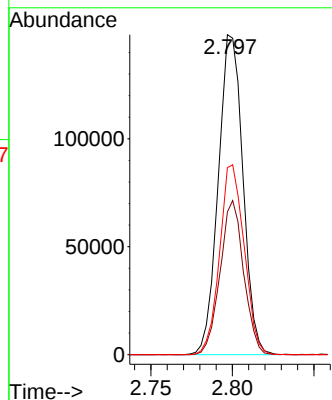
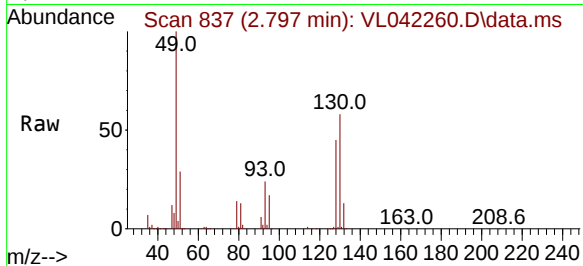




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

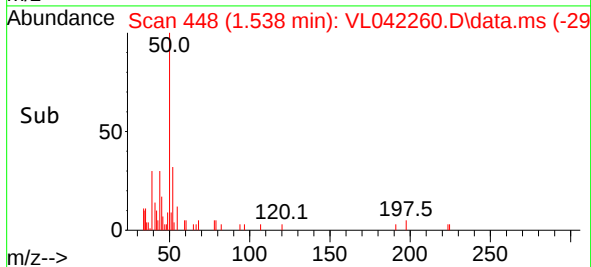
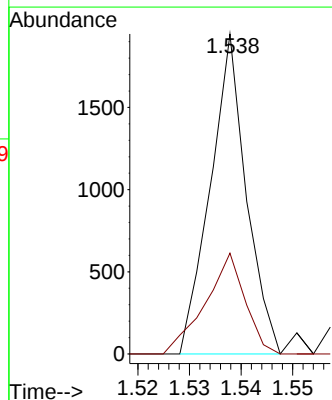
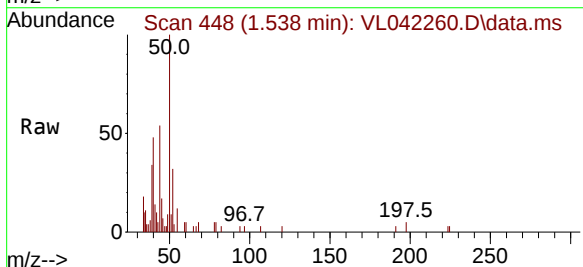
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

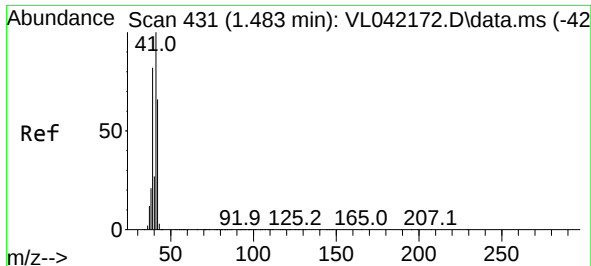
Tgt Ion: 49 Resp: 155754
Ion Ratio Lower Upper
49 100
128 46.0 22.9 68.5
130 59.1 28.8 86.4



#4
Chloromethane
Concen: 0.100 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

Tgt Ion: 50 Resp: 942
Ion Ratio Lower Upper
50 100
52 35.4 26.1 39.1





#9

Propene

Concen: 1.480 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042260.D

Acq: 08 Apr 2025 13:07

Instrument :

MSVOA_L

ClientSampleId :

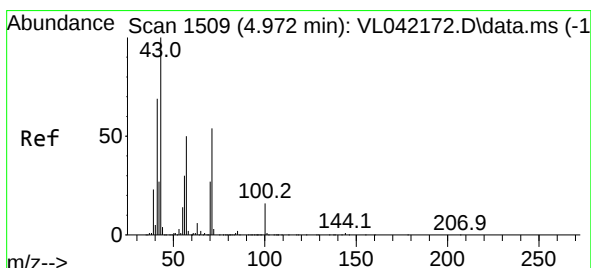
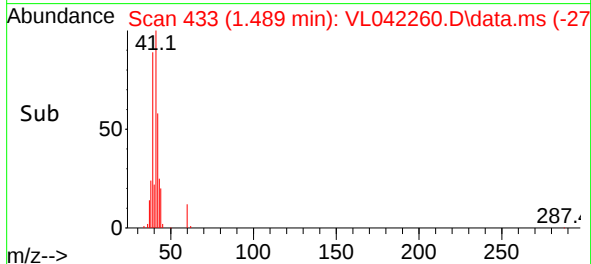
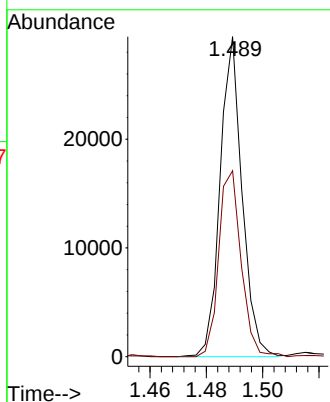
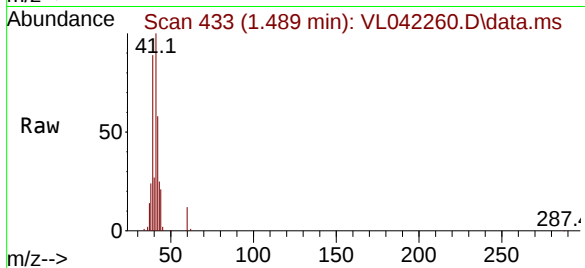
SSSG-B2-5-04022025

Tgt Ion: 41 Resp: 15937

Ion Ratio Lower Upper

41 100

42 60.3 55.4 83.2



#10

Heptane

Concen: 0.677 ppbv

RT: 5.004 min Scan# 1519

Delta R.T. 0.032 min

Lab File: VL042260.D

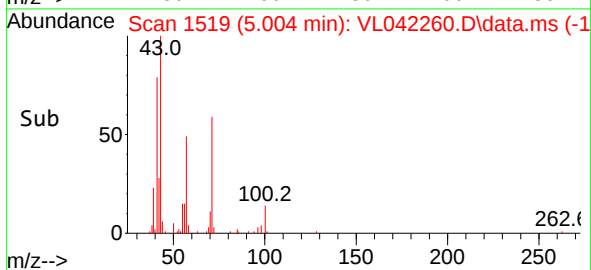
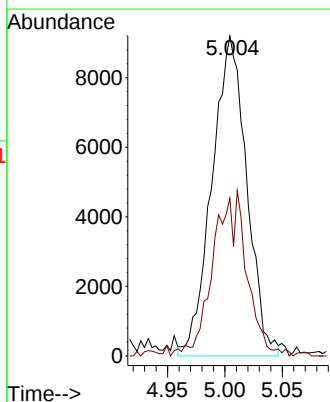
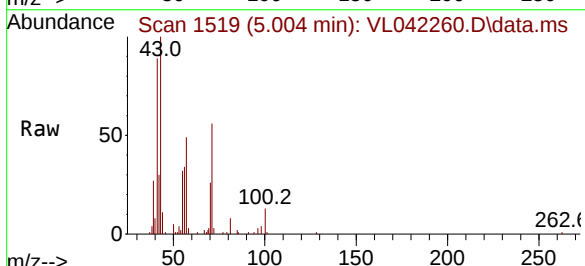
Acq: 08 Apr 2025 13:07

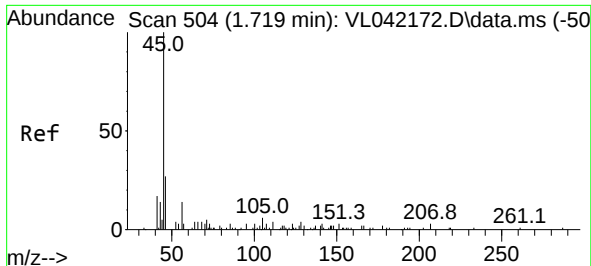
Tgt Ion: 43 Resp: 19390

Ion Ratio Lower Upper

43 100

57 51.6 39.4 59.2

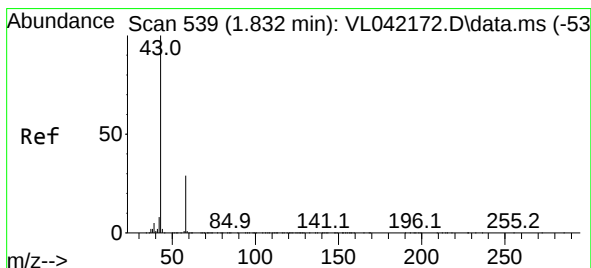
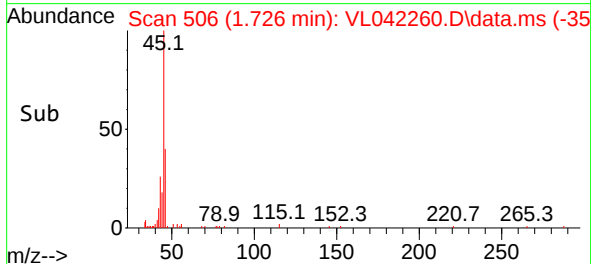
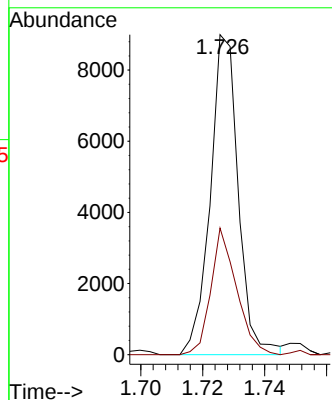
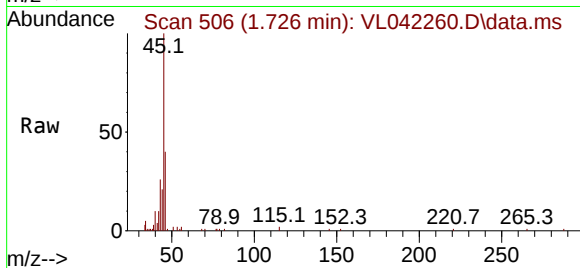




#13
Ethanol
Concen: 5.556 ppbv
RT: 1.726 min Scan# 504
Delta R.T. 0.006 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

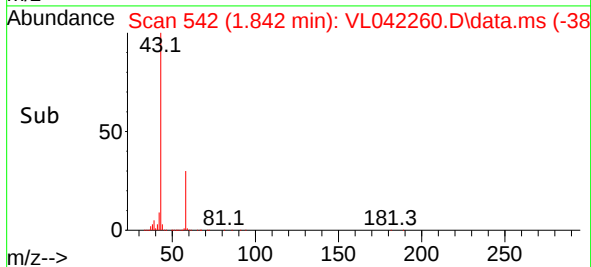
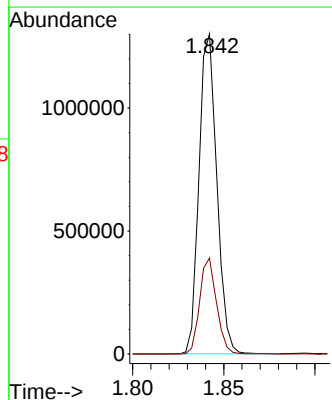
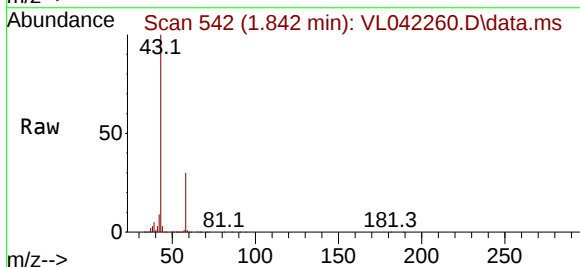
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

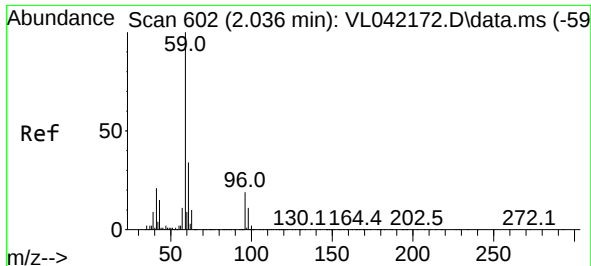
Tgt Ion: 45 Resp: 5656
Ion Ratio Lower Upper
45 100
46 36.9 20.2 80.8



#15
Acetone
Concen: 40.753 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.010 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

Tgt Ion: 43 Resp: 887725
Ion Ratio Lower Upper
43 100
58 28.3 23.2 34.8





#17

tert-Butyl alcohol

Concen: 0.242 ppbv

RT: 2.052 min Scan# 602

Delta R.T. 0.016 min

Lab File: VL042260.D

Acq: 08 Apr 2025 13:07

Instrument :

MSVOA_L

ClientSampleId :

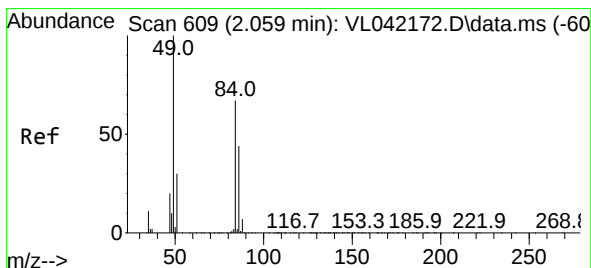
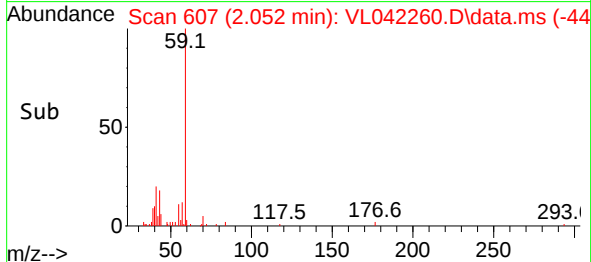
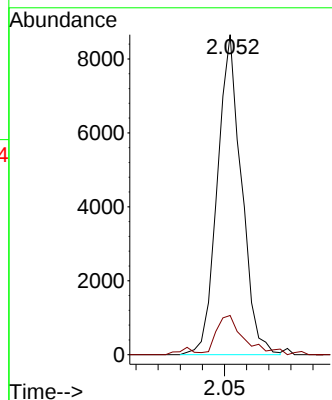
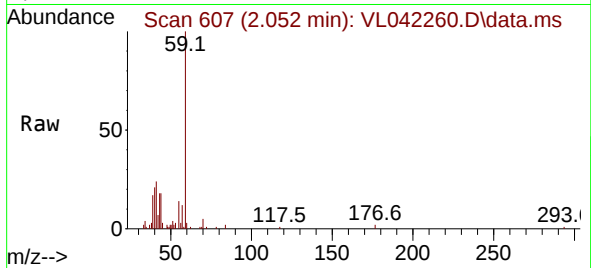
SSSG-B2-5-04022025

Tgt Ion: 59 Resp: 6563

Ion Ratio Lower Upper

59 100

57 15.7 8.9 13.3#



#20

Methylene Chloride

Concen: 0.911 ppbv

RT: 2.069 min Scan# 612

Delta R.T. 0.010 min

Lab File: VL042260.D

Acq: 08 Apr 2025 13:07

Tgt Ion: 84 Resp: 7394

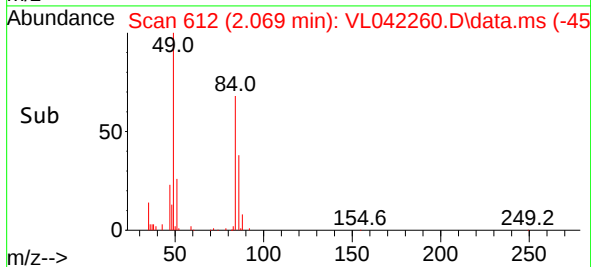
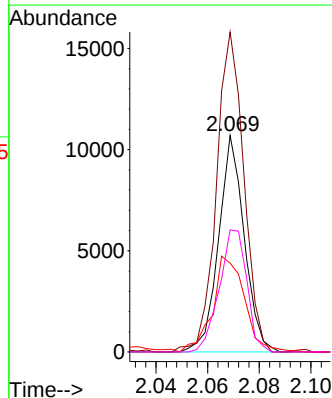
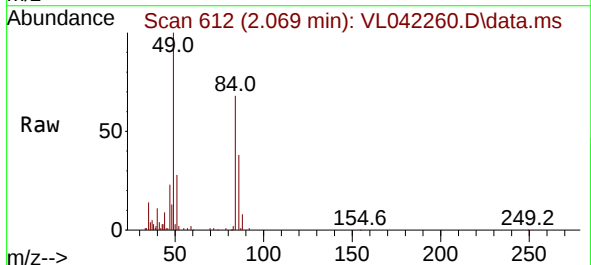
Ion Ratio Lower Upper

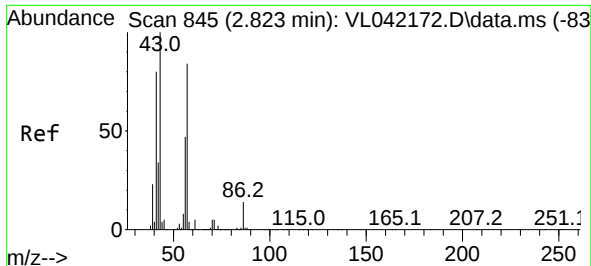
84 100

49 147.8 120.2 180.4

51 41.1 37.4 56.0

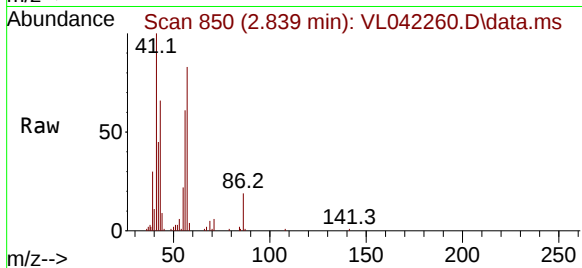
86 56.4 52.4 78.6



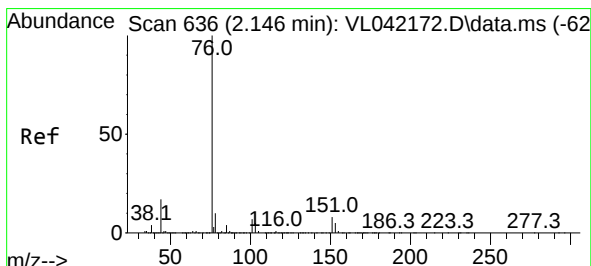
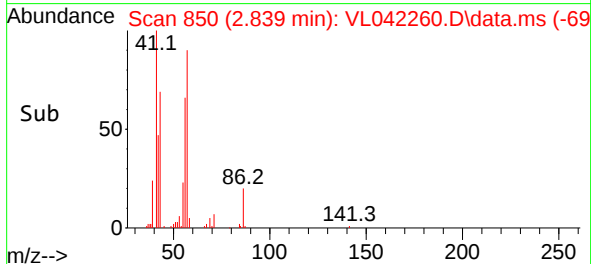
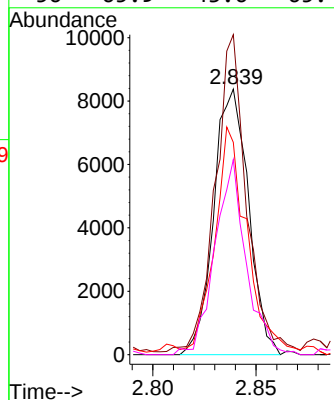


#26
Hexane
Concen: 0.448 ppbv
RT: 2.839 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

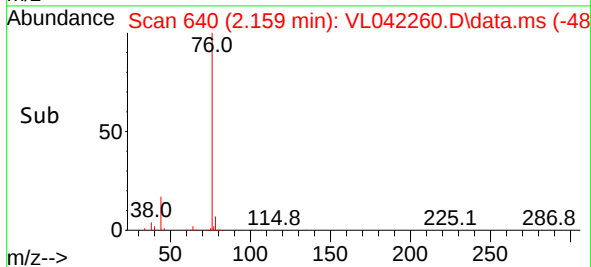
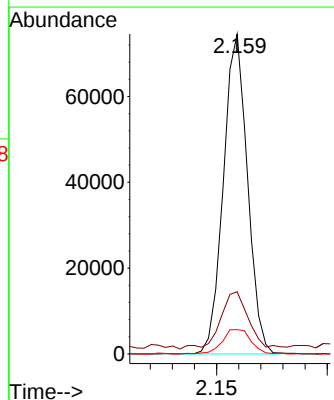
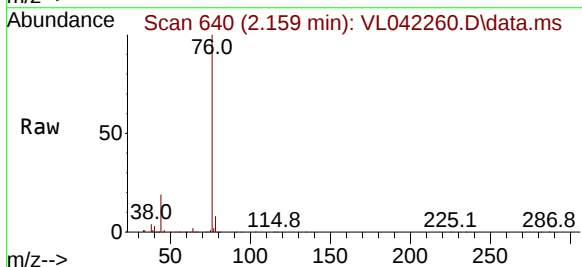


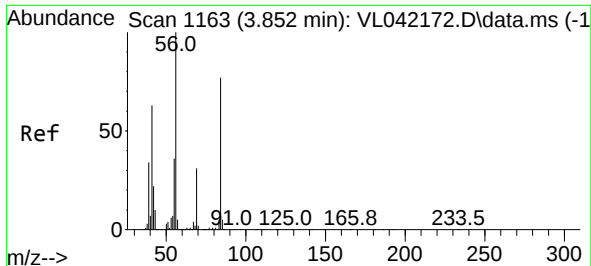
Tgt Ion: 57 Resp: 9788
Ion Ratio Lower Upper
57 100
41 106.4 76.6 114.8
43 81.6 207.8 311.8#
56 65.9 43.6 65.4#



#27
Carbon Disulfide
Concen: 2.407 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.013 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

Tgt Ion: 76 Resp: 56360
Ion Ratio Lower Upper
76 100
44 17.7 14.7 22.1
78 9.3 9.3 13.9#

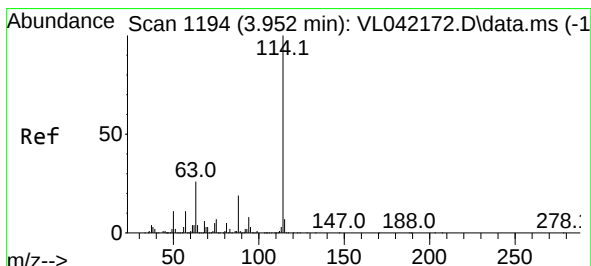
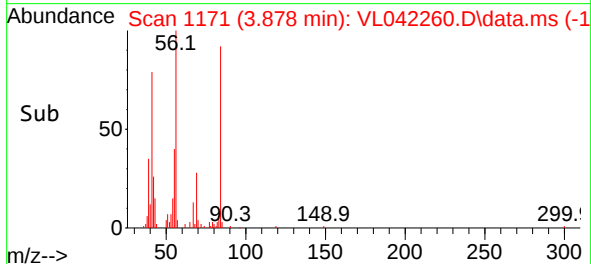
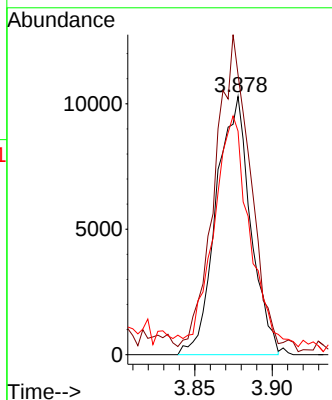
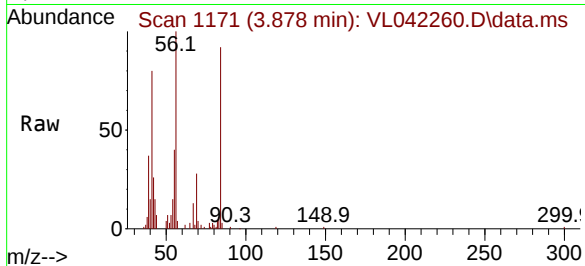




#30
Cyclohexane
Concen: 0.837 ppbv
RT: 3.878 min Scan# 1163
Delta R.T. 0.026 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

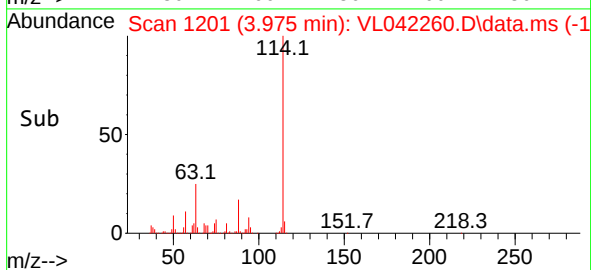
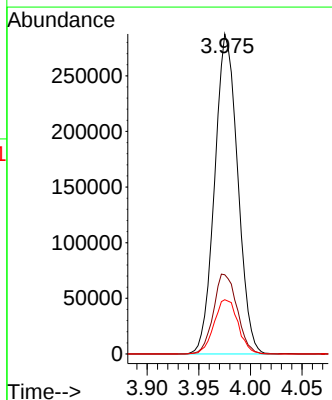
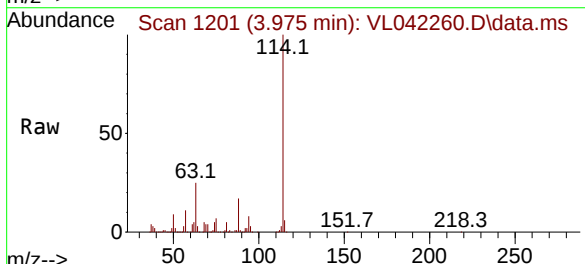
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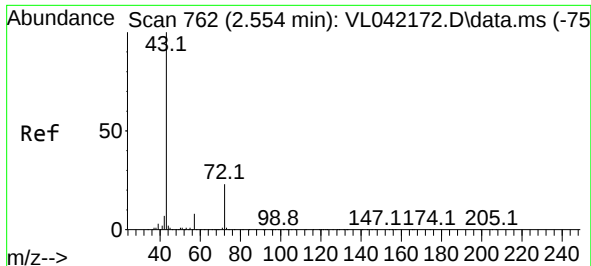
Tgt Ion: 84 Resp: 15879
Ion Ratio Lower Upper
84 100
56 138.3 102.8 154.2
41 106.3 66.5 99.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1201
Delta R.T. 0.023 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

Tgt Ion: 114 Resp: 446160
Ion Ratio Lower Upper
114 100
63 25.6 20.7 31.1
88 17.7 15.0 22.4

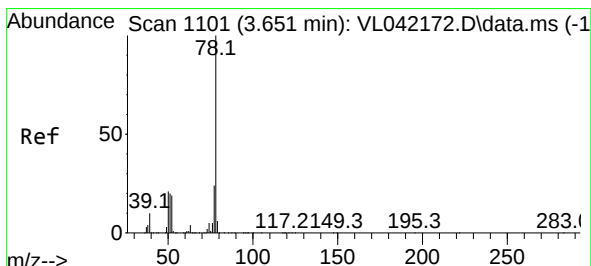
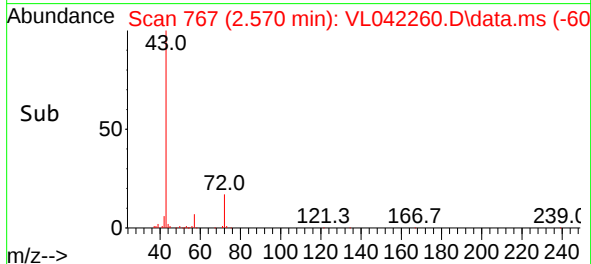
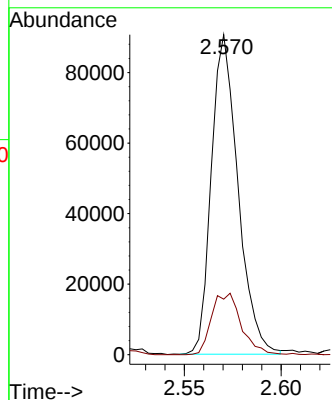
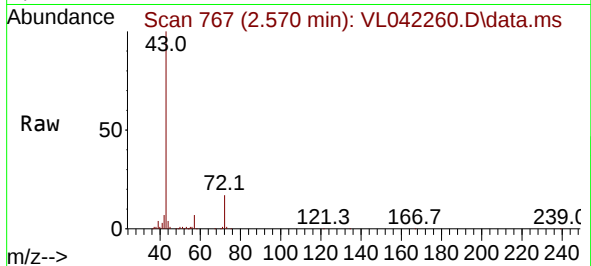




#34
2-Butanone
Concen: 2.682 ppbv
RT: 2.570 min Scan# 767
Delta R.T. 0.016 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

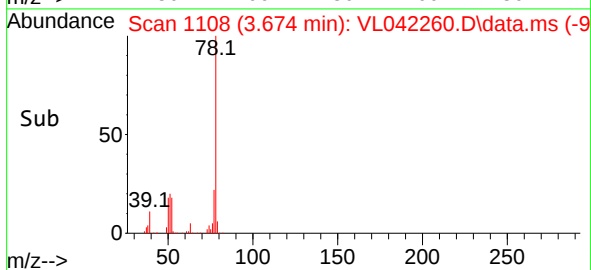
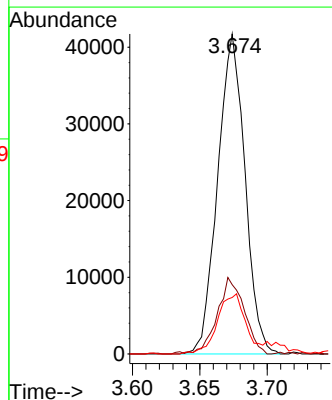
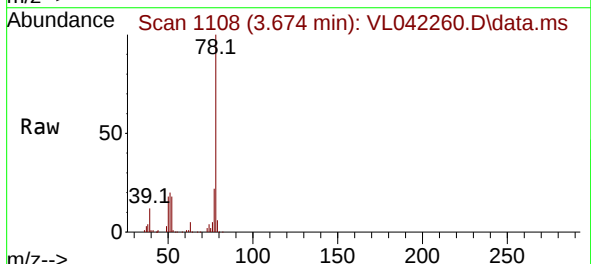
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

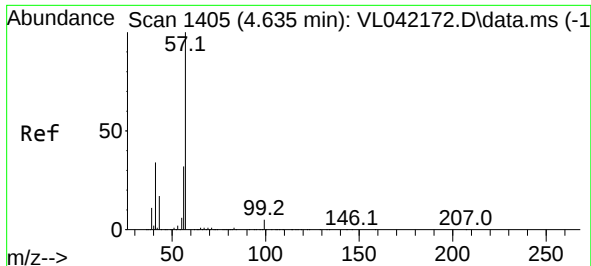
Tgt Ion: 43 Resp: 86784
Ion Ratio Lower Upper
43 100
72 21.7 18.2 27.2



#36
Benzene
Concen: 1.327 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. 0.023 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

Tgt Ion: 78 Resp: 58697
Ion Ratio Lower Upper
78 100
77 21.1 19.1 28.7
50 17.7 16.6 24.8





#44

2,2,4-Trimethylpentane

Concen: 1.313 ppbv

RT: 4.664 min Scan# 1414

Delta R.T. 0.029 min

Lab File: VL042260.D

Acq: 08 Apr 2025 13:07

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-5-04022025

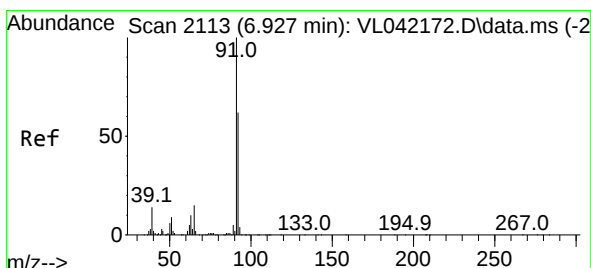
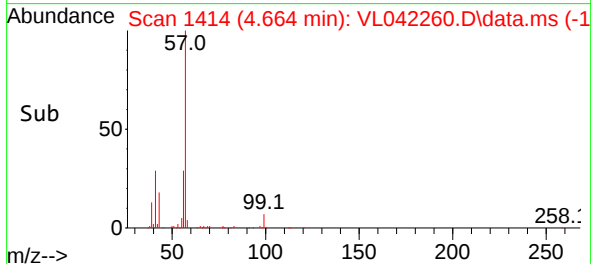
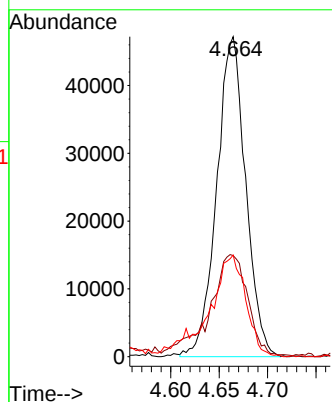
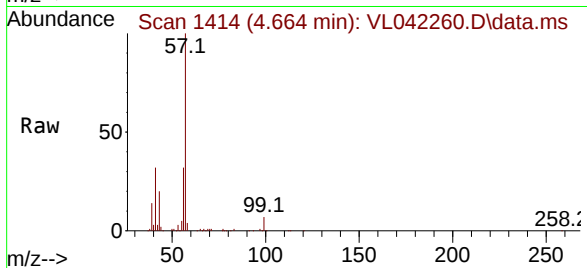
Tgt Ion: 57 Resp: 98142

Ion Ratio Lower Upper

57 100

41 41.5 26.8 40.2#

56 40.6 25.6 38.4#



#53

Toluene

Concen: 5.702 ppbv

RT: 6.956 min Scan# 2122

Delta R.T. 0.029 min

Lab File: VL042260.D

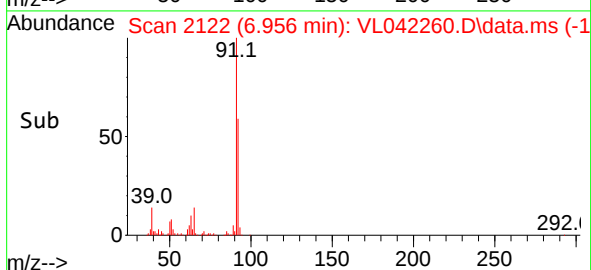
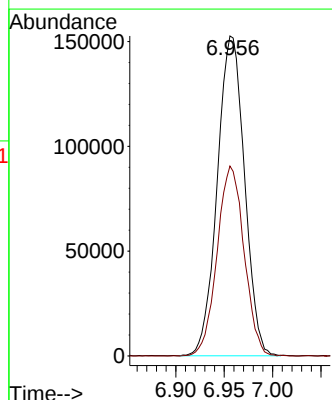
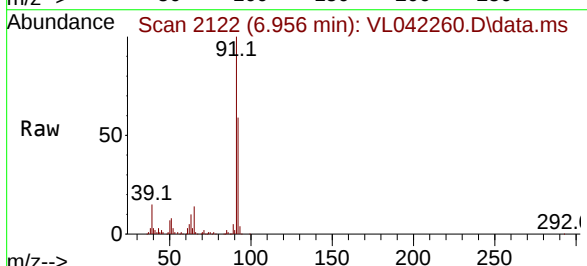
Acq: 08 Apr 2025 13:07

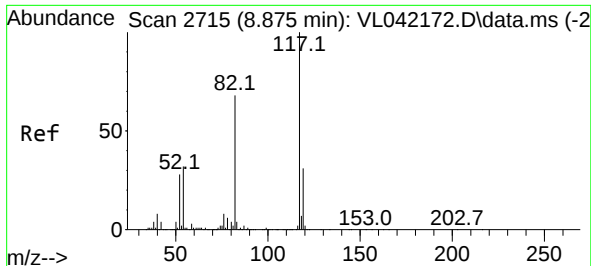
Tgt Ion: 91 Resp: 298949

Ion Ratio Lower Upper

91 100

92 58.8 48.4 72.6

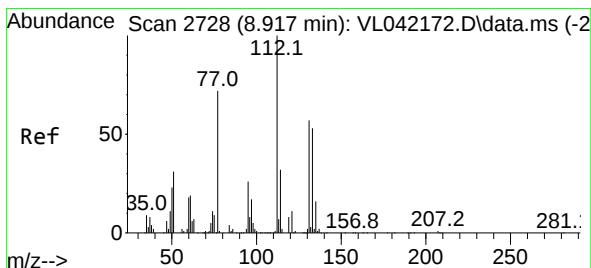
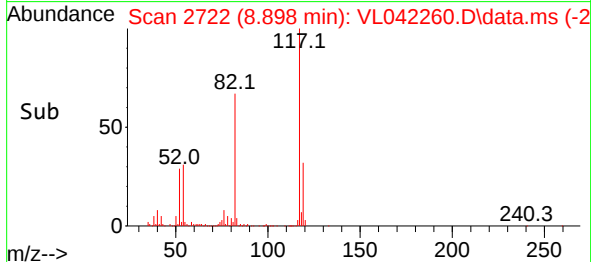
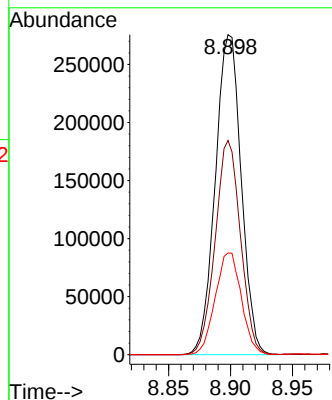
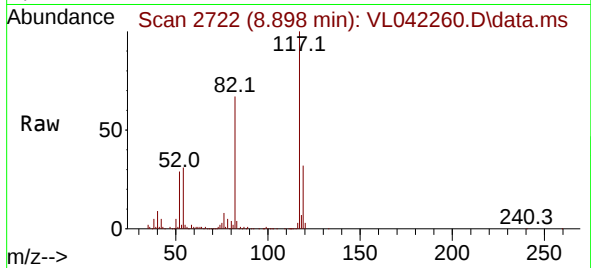




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

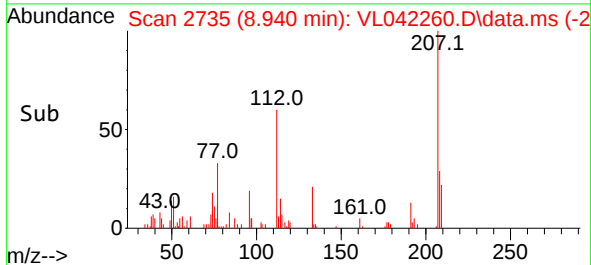
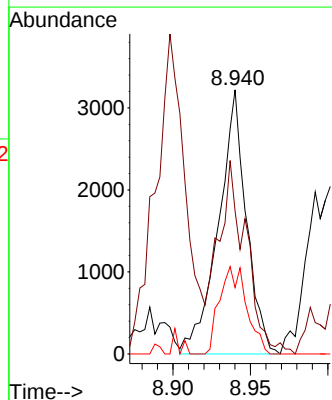
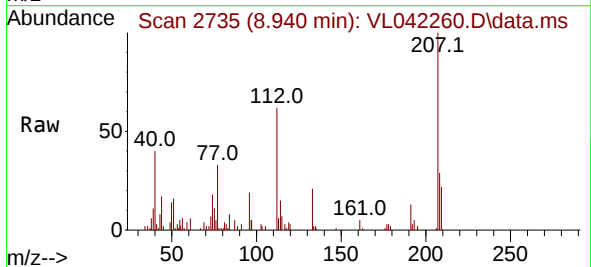
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

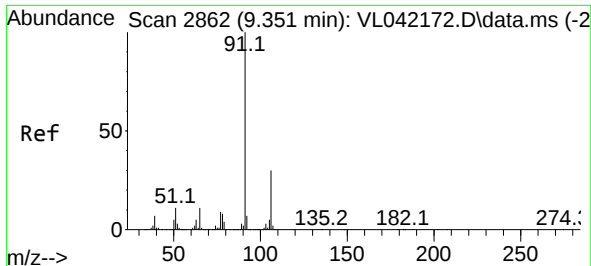
Tgt Ion:117 Resp: 402493
Ion Ratio Lower Upper
117 100
82 65.3 55.8 83.6
119 32.1 25.5 38.3



#57
Chlorobenzene
Concen: 0.106 ppbv
RT: 8.940 min Scan# 2735
Delta R.T. 0.023 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

Tgt Ion:112 Resp: 4055
Ion Ratio Lower Upper
112 100
77 52.0 58.2 87.2#
114 25.1 29.1 35.5#





#58

Ethyl Benzene

Concen: 0.713 ppbv

RT: 9.374 min Scan# 2869

Delta R.T. 0.023 min

Lab File: VL042260.D

Acq: 08 Apr 2025 13:07

Instrument :

MSVOA_L

ClientSampleId :

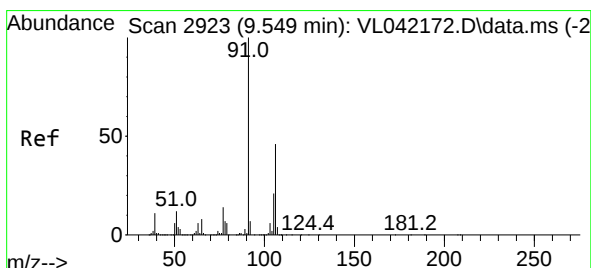
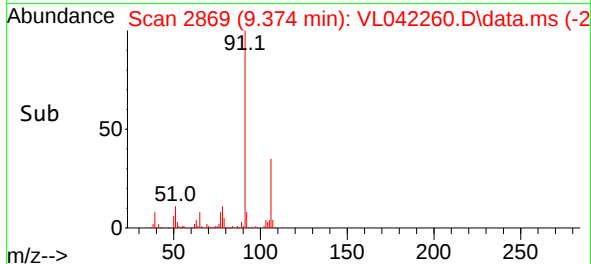
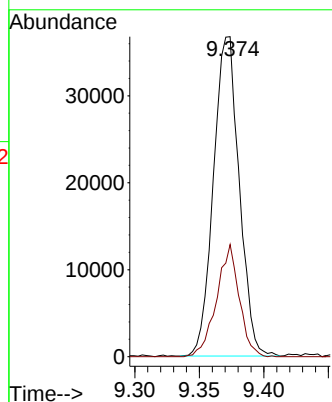
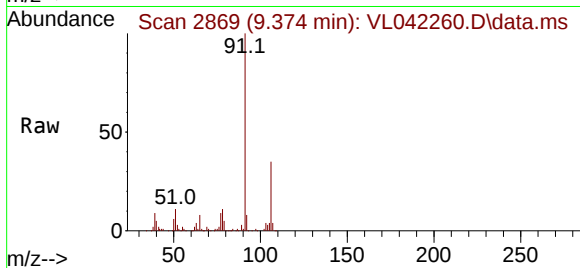
SSSG-B2-5-04022025

Tgt Ion: 91 Resp: 50951

Ion Ratio Lower Upper

91 100

106 35.1 24.2 36.2



#59

m/p-Xylene

Concen: 2.118 ppbv

RT: 9.549 min Scan# 2923

Delta R.T. 0.000 min

Lab File: VL042260.D

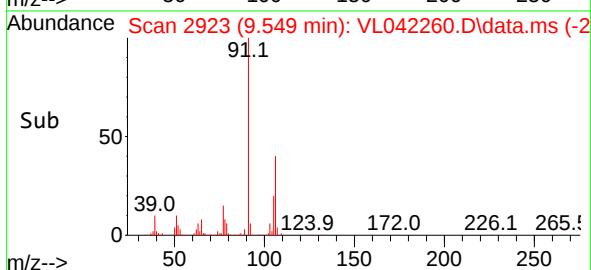
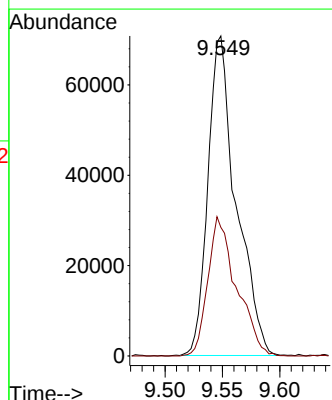
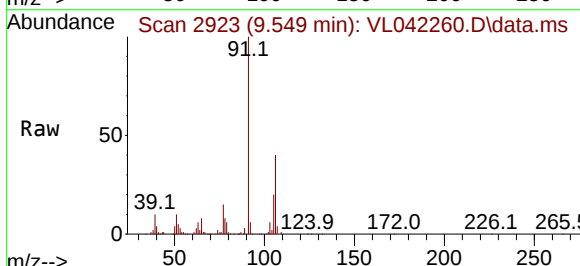
Acq: 08 Apr 2025 13:07

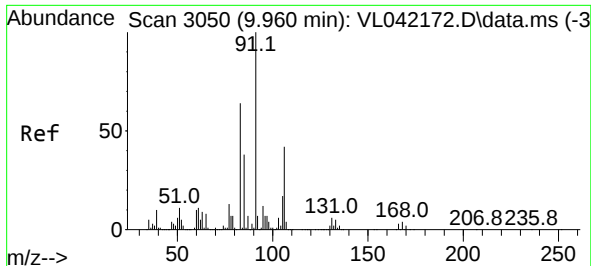
Tgt Ion: 91 Resp: 120893

Ion Ratio Lower Upper

91 100

106 44.3 36.4 54.6

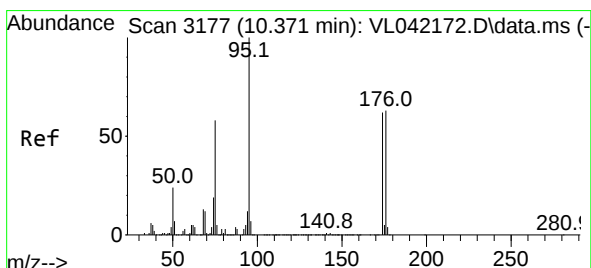
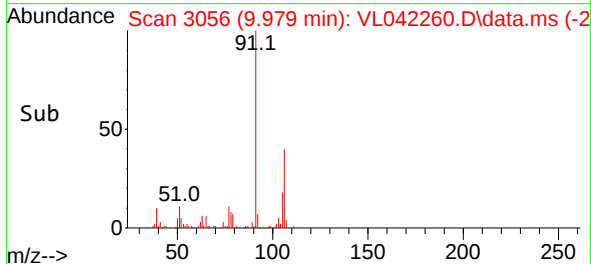
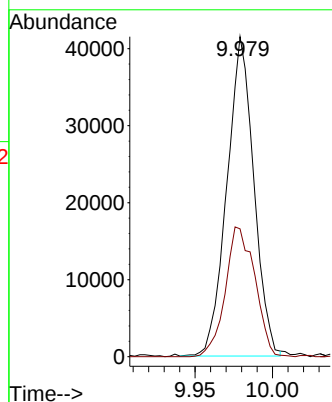
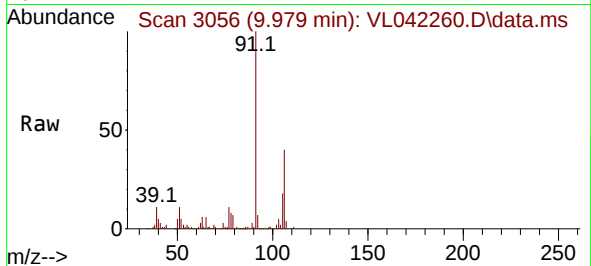




#60
o-Xylene
Concen: 0.877 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. 0.019 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

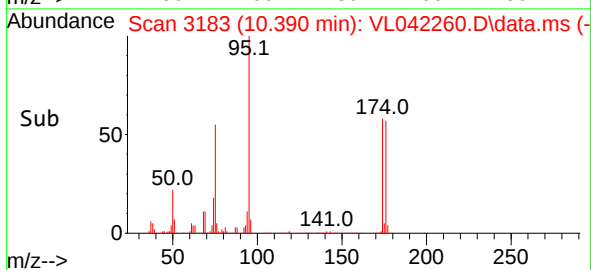
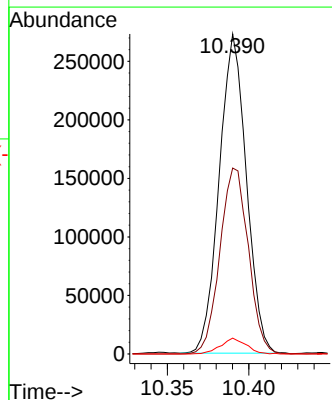
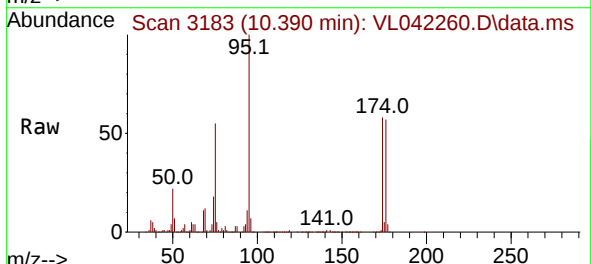
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

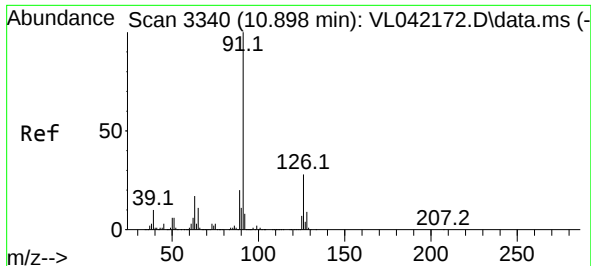
Tgt Ion: 91 Resp: 50208
Ion Ratio Lower Upper
91 100
106 44.8 20.8 62.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.553 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. 0.019 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

Tgt Ion: 95 Resp: 315753
Ion Ratio Lower Upper
95 100
174 61.0 50.6 76.0
175 4.7 3.8 5.6

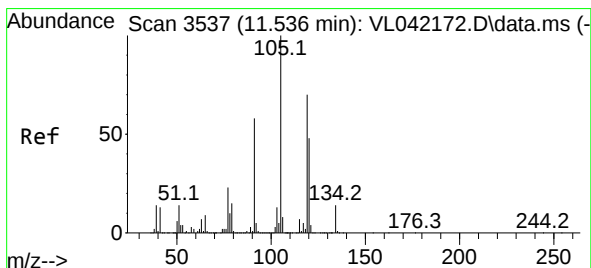
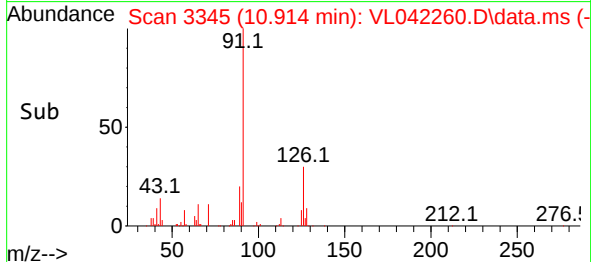
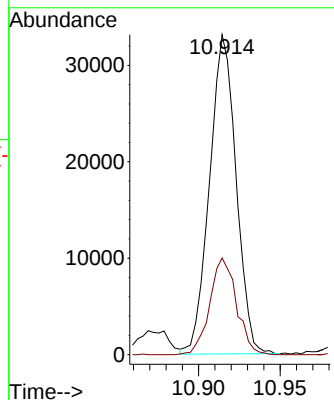
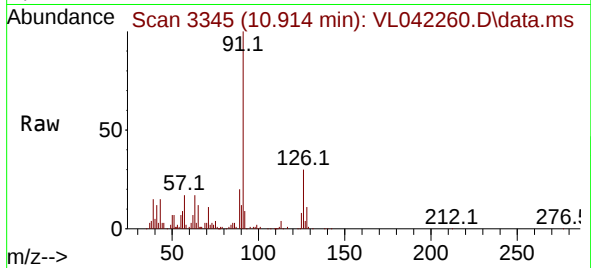




#71
2-Chlorotoluene
Concen: 0.565 ppbv
RT: 10.914 min Scan# 31
Delta R.T. 0.016 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

Tgt Ion: 91 Resp: 37512
Ion Ratio Lower Upper
91 100
126 30.4 11.6 46.4



#74
1,2,4-Trimethylbenzene
Concen: 0.198 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. 0.013 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

Tgt Ion: 105 Resp: 14207
Ion Ratio Lower Upper
105 100
120 40.0 38.6 58.0
91 17.6 46.2 69.2#
77 19.4 18.6 27.8

