

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091025\
 Data File : VL042922.D
 Acq On : 10 Sep 2025 10:21
 Operator : SY/MD
 Sample : VL0910ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0910ABL01

Quant Time: Sep 11 01:10:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-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)

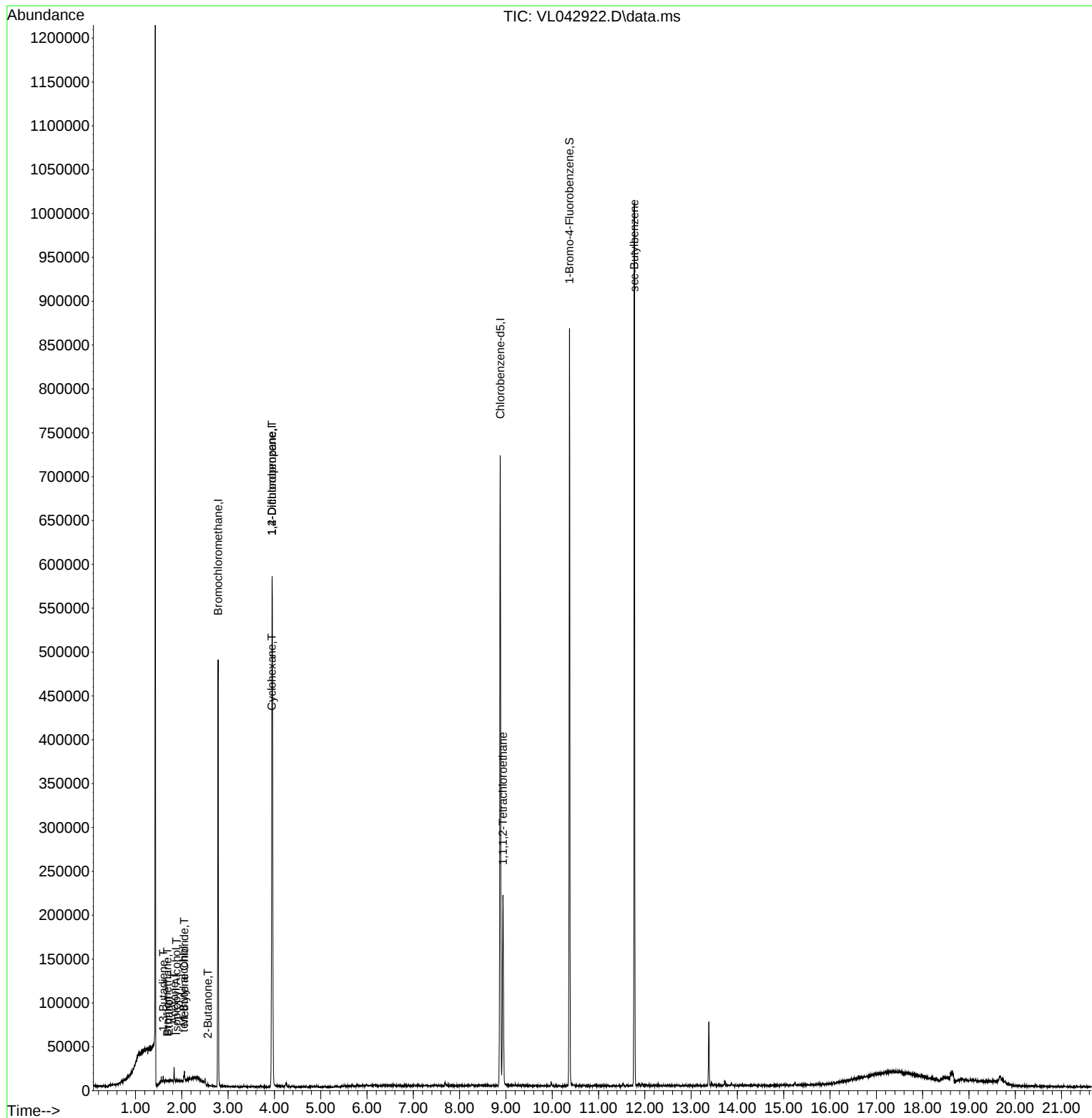
Internal Standards						
1) Bromochloromethane	2.784	49	137030	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	339612	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	283645	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	211755	9.954	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
6) Bromomethane	1.687	94	99	0.031	ppbv #	4
13) Ethanol	1.716	45	428	0.488	ppbv #	53
15) Acetone	1.835	43	6077	0.335	ppbv #	74
16) 1,3-Butadiene	1.599	39	896	0.109	ppbv #	10
17) tert-Butyl alcohol	2.043	59	2175	0.101	ppbv #	91
19) Isopropyl Alcohol	1.884	45	519	0.048	ppbv #	1
20) Methylene Chloride	2.056	84	1906	0.251	ppbv #	78
30) Cyclohexane	3.942	84	834	0.047	ppbv #	1
34) 2-Butanone	2.560	43	1651	0.072	ppbv	98
39) 1,2-Dichloropropane	3.949	63	88717	7.469	ppbv #	26
56) 1,1,1,2-Tetrachloroethane	8.933	131	730	0.050	ppbv #	1
67) sec-Butylbenzene	11.772	105	2937	0.041	ppbv #	1

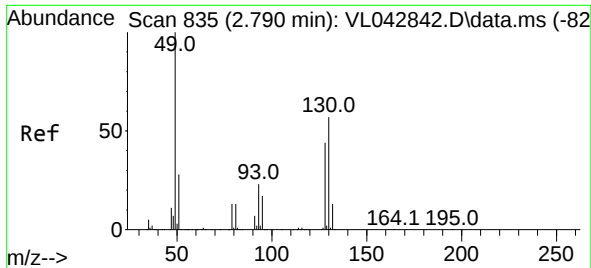
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0910ABL01

Quant Time: Sep 11 01:10:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

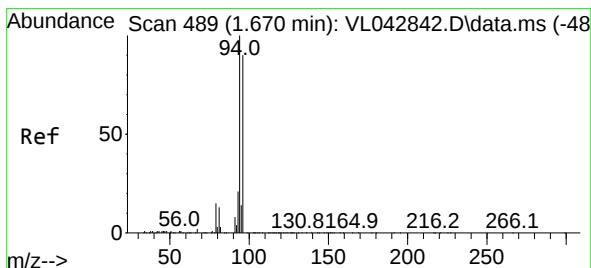
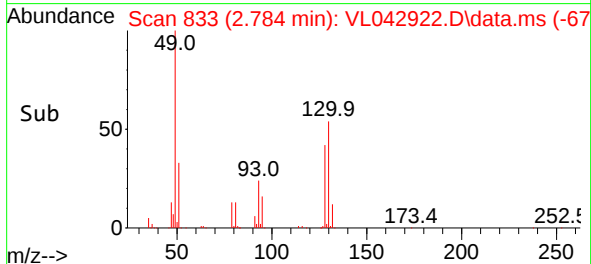
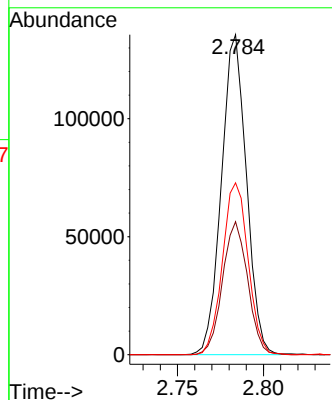
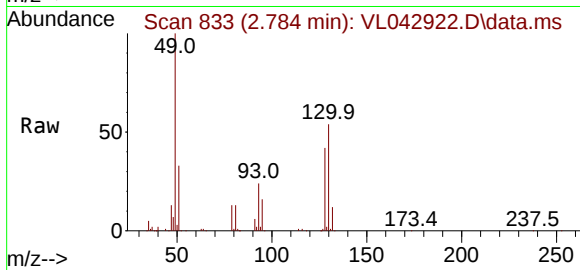




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 81
 Delta R.T. 0.007 min
 Lab File: VL042922.D
 Acq: 10 Sep 2025 10:21

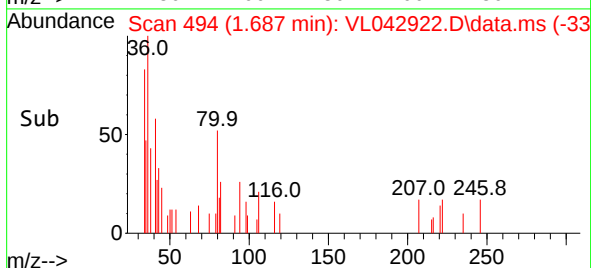
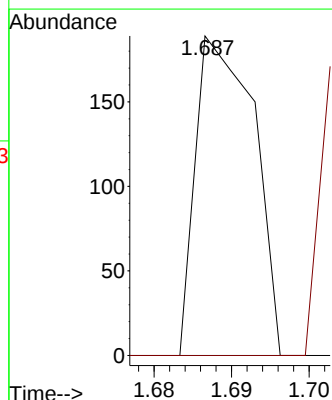
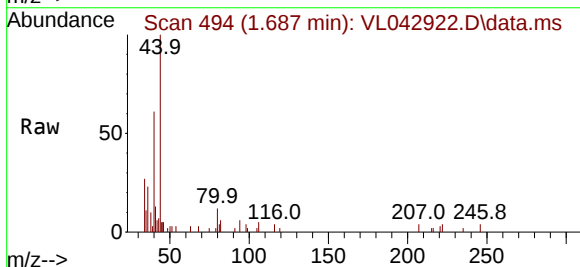
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0910ABL01

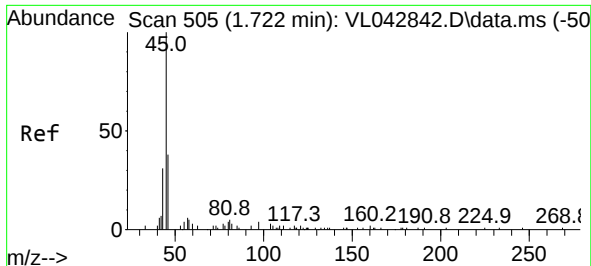
Tgt Ion: 49 Resp: 137030
 Ion Ratio Lower Upper
 49 100
 128 41.9 23.7 71.1
 130 55.2 30.6 91.6



#6
 Bromomethane
 Concen: 0.031 ppbv
 RT: 1.687 min Scan# 494
 Delta R.T. 0.023 min
 Lab File: VL042922.D
 Acq: 10 Sep 2025 10:21

Tgt Ion: 94 Resp: 99
 Ion Ratio Lower Upper
 94 100
 96 0.0 72.1 108.1#

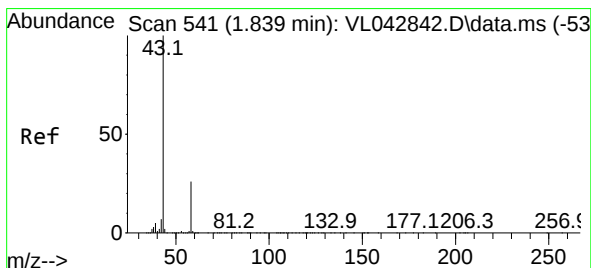
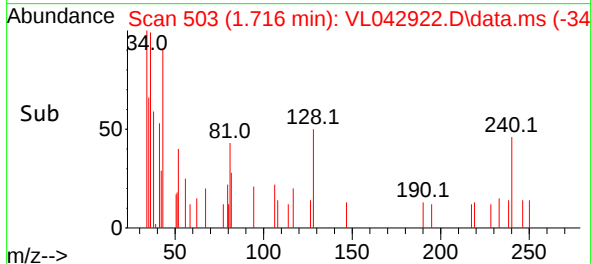
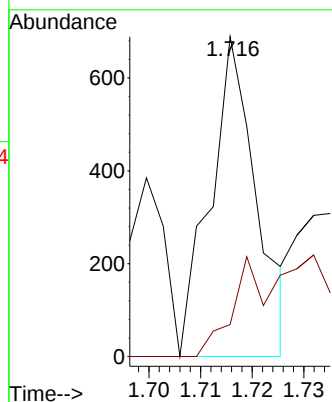
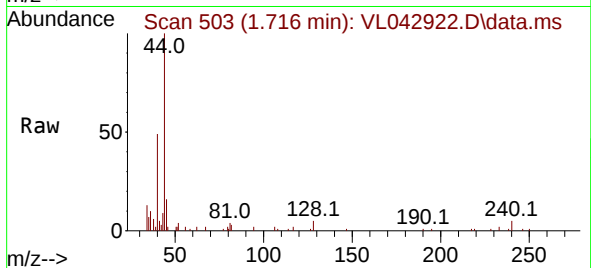




#13
Ethanol
Concen: 0.488 ppbv
RT: 1.716 min Scan# 50
Delta R.T. -0.000 min
Lab File: VL042922.D
Acq: 10 Sep 2025 10:21

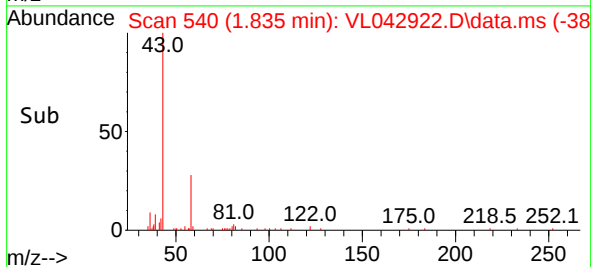
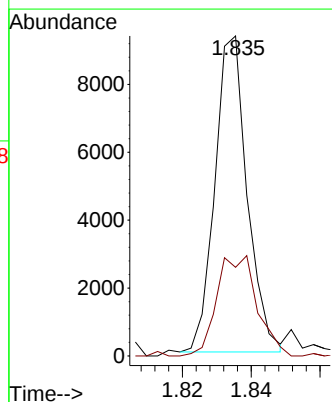
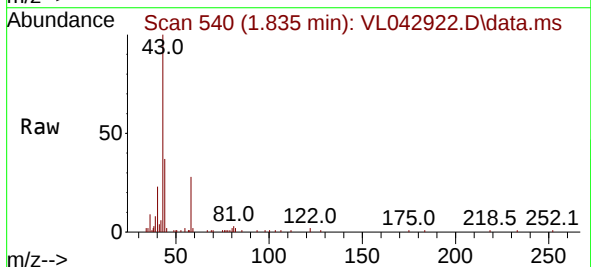
Instrument :
MSVOA_1
ClientSampleId :
VL0910ABL01

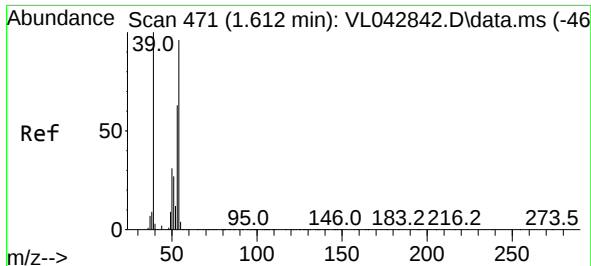
Tgt Ion: 45 Resp: 428
Ion Ratio Lower Upper
45 100
46 73.8 17.5 69.9#



#15
Acetone
Concen: 0.335 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.006 min
Lab File: VL042922.D
Acq: 10 Sep 2025 10:21

Tgt Ion: 43 Resp: 6077
Ion Ratio Lower Upper
43 100
58 41.6 22.4 33.6#

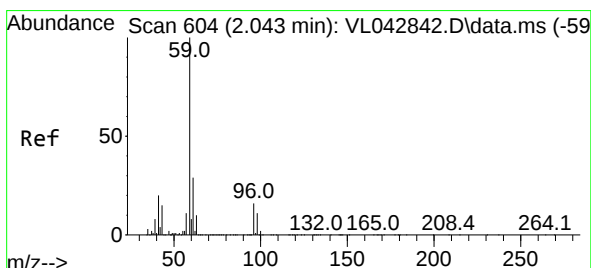
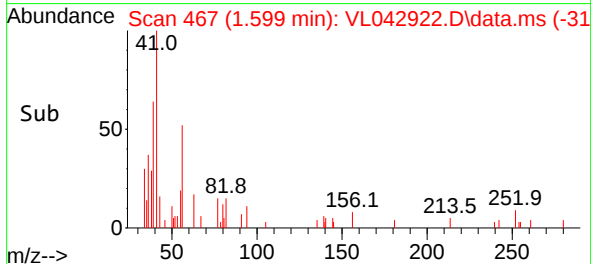
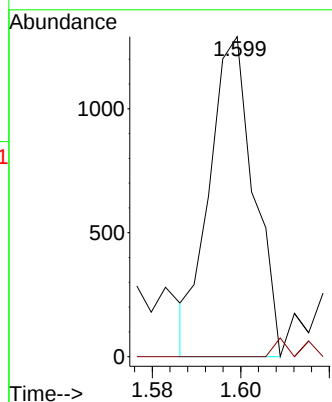
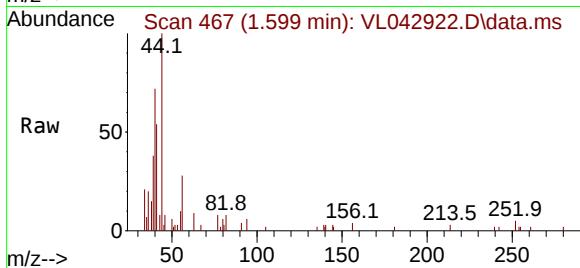




#16
1,3-Butadiene
Concen: 0.109 ppbv
RT: 1.599 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042922.D
Acq: 10 Sep 2025 10:21

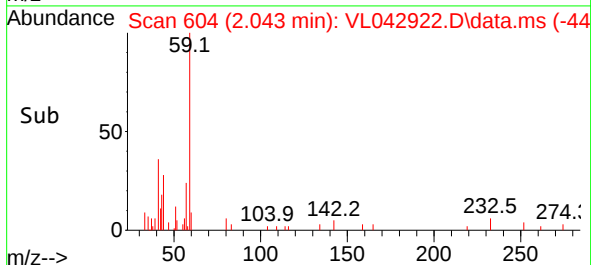
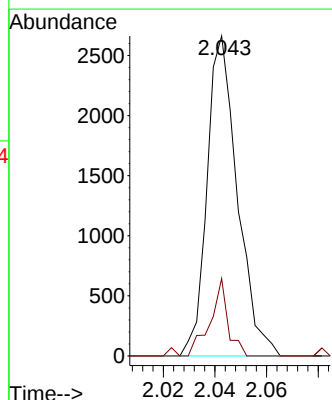
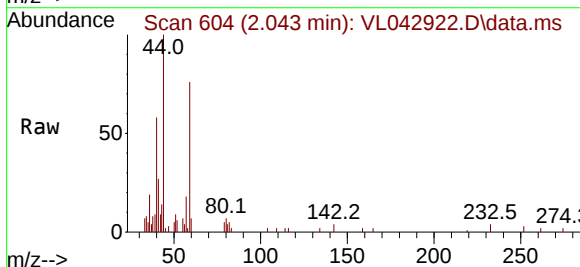
Instrument :
MSVOA_L
ClientSampleId :
VL0910ABL01

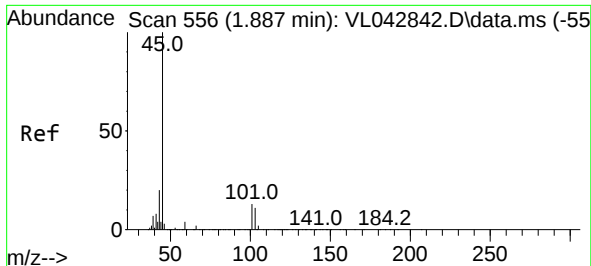
Tgt Ion: 39 Resp: 896
Ion Ratio Lower Upper
39 100
54 0.0 63.6 95.4#



#17
tert-Butyl alcohol
Concen: 0.101 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.010 min
Lab File: VL042922.D
Acq: 10 Sep 2025 10:21

Tgt Ion: 59 Resp: 2175
Ion Ratio Lower Upper
59 100
57 14.7 9.0 13.4#

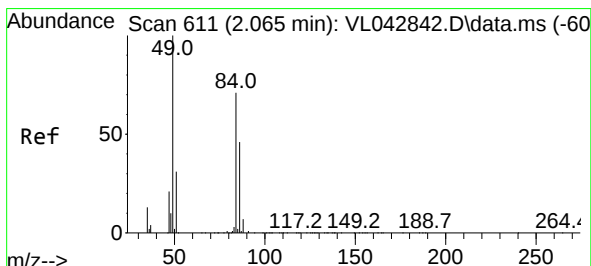
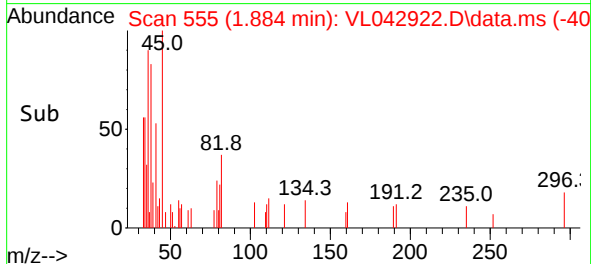
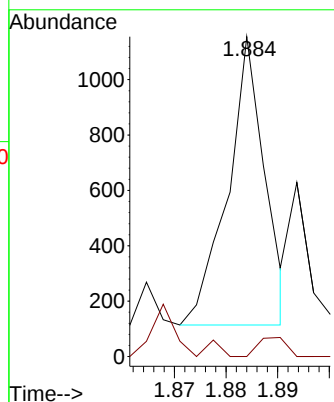
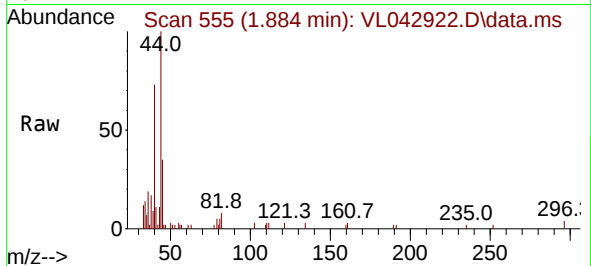




#19
Isopropyl Alcohol
Concen: 0.048 ppbv
RT: 1.884 min Scan# 519
Delta R.T. 0.003 min
Lab File: VL042922.D
Acq: 10 Sep 2025 10:21

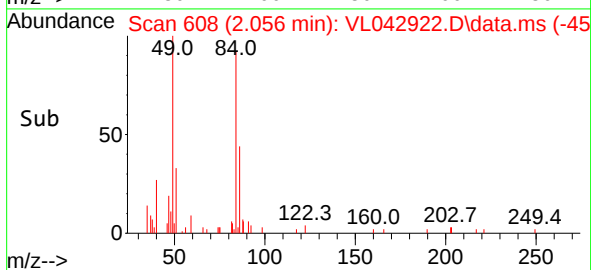
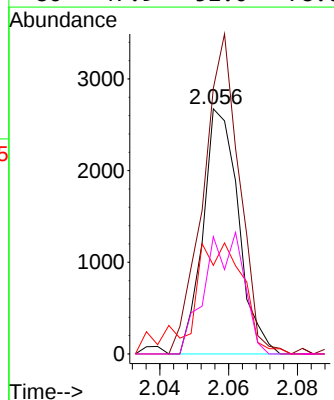
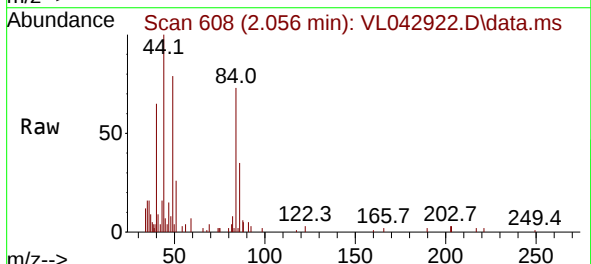
Instrument :
MSVOA_L
ClientSampleId :
VL0910ABL01

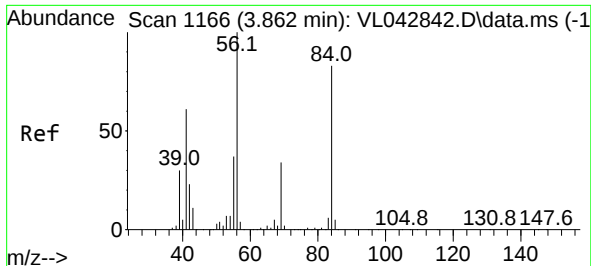
Tgt Ion: 45 Resp: 519
Ion Ratio Lower Upper
45 100
58 468.6 32.7 49.1#



#20
Methylene Chloride
Concen: 0.251 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.000 min
Lab File: VL042922.D
Acq: 10 Sep 2025 10:21

Tgt Ion: 84 Resp: 1906
Ion Ratio Lower Upper
84 100
49 111.3 112.3 168.5#
51 34.1 36.0 54.0#
86 47.9 52.0 78.0#

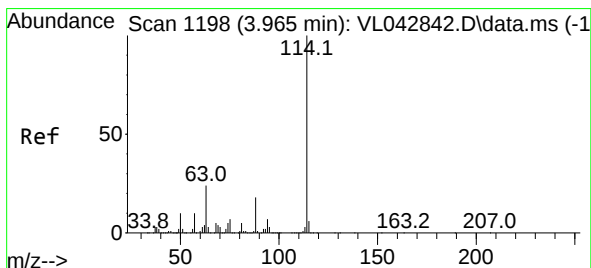
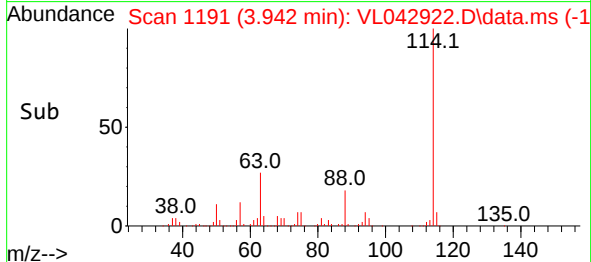
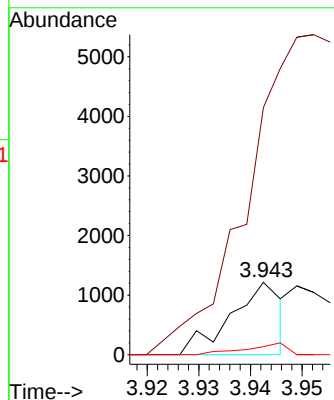
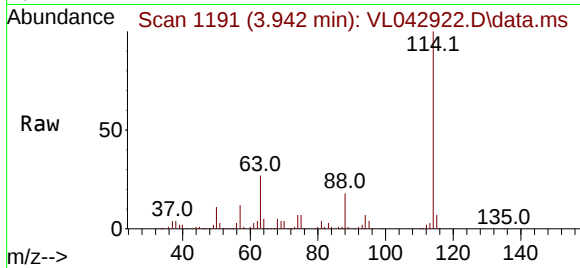




#30
Cyclohexane
Concen: 0.047 ppbv
RT: 3.942 min Scan# 1166
Delta R.T. 0.100 min
Lab File: VL042922.D
Acq: 10 Sep 2025 10:21

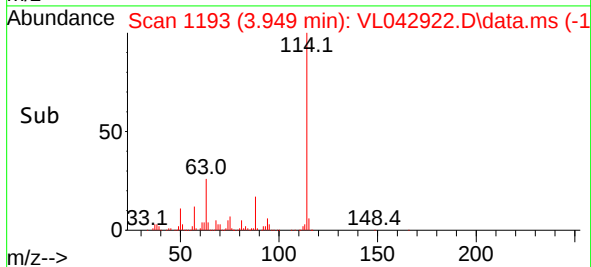
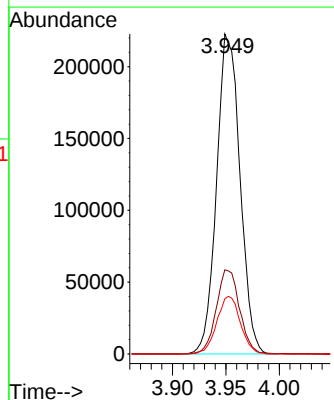
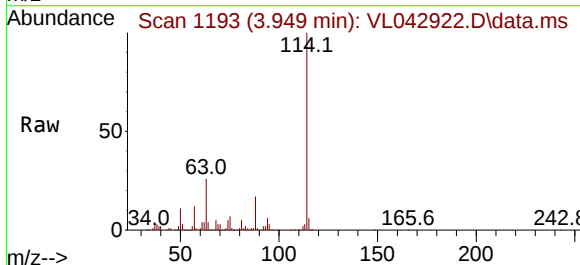
Instrument :
MSVOA_L
ClientSampleId :
VL0910ABL01

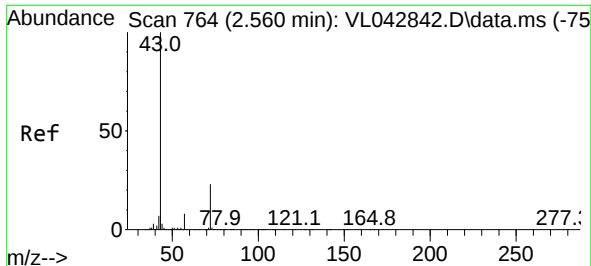
Tgt Ion: 84 Resp: 834
Ion Ratio Lower Upper
84 100
56 0.0 98.8 148.2#
41 0.0 61.3 91.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. 0.006 min
Lab File: VL042922.D
Acq: 10 Sep 2025 10:21

Tgt Ion: 114 Resp: 339612
Ion Ratio Lower Upper
114 100
63 26.2 19.7 29.5
88 18.1 14.4 21.6

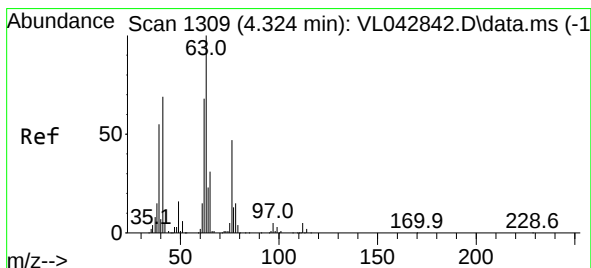
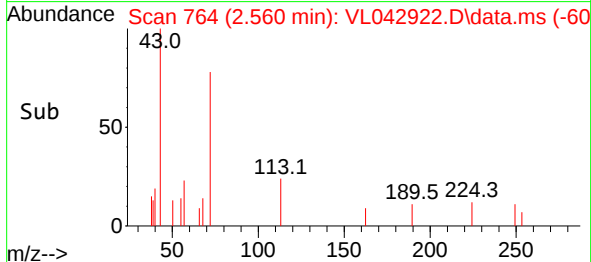
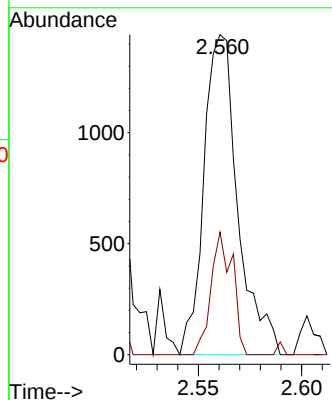
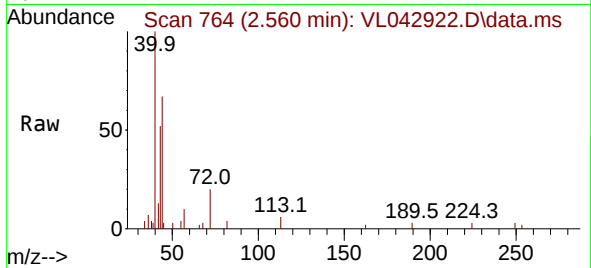




#34
2-Butanone
Concen: 0.072 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.013 min
Lab File: VL042922.D
Acq: 10 Sep 2025 10:21

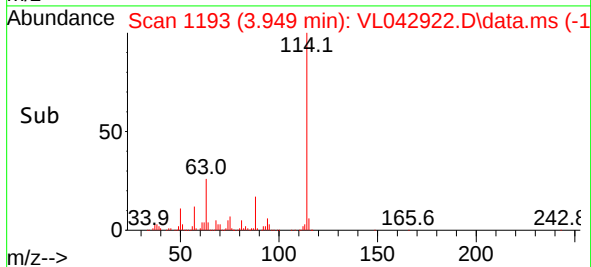
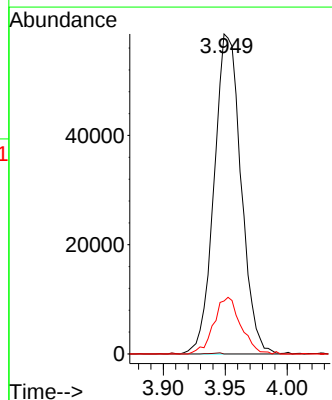
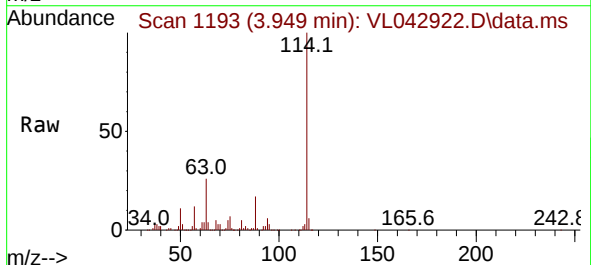
Instrument :
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ClientSampleId :
VL0910ABL01

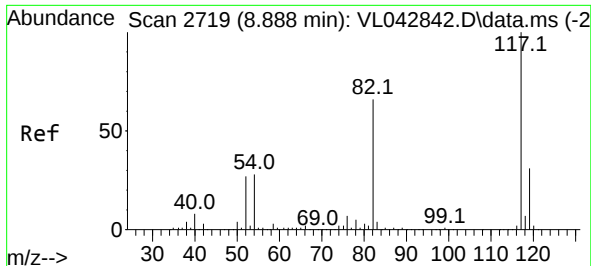
Tgt Ion: 43 Resp: 1651
Ion Ratio Lower Upper
43 100
72 24.2 18.6 28.0



#39
1,2-Dichloropropane
Concen: 7.469 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.350 min
Lab File: VL042922.D
Acq: 10 Sep 2025 10:21

Tgt Ion: 63 Resp: 88717
Ion Ratio Lower Upper
63 100
41 0.0 55.0 82.4#
62 16.6 54.4 81.6#

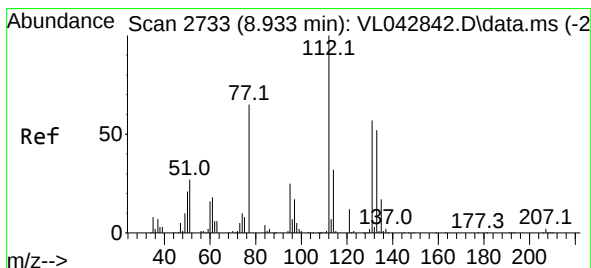
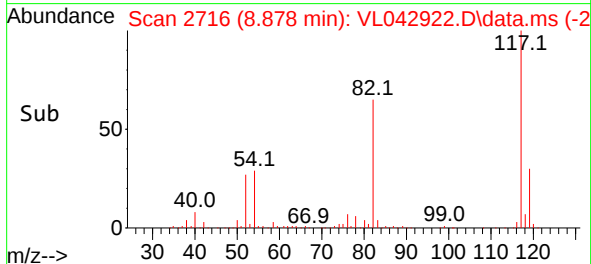
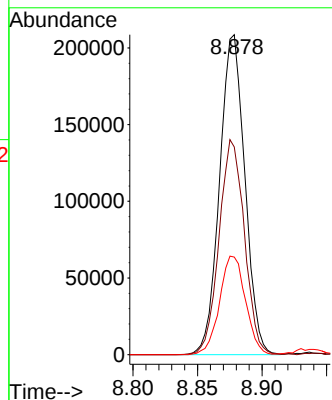
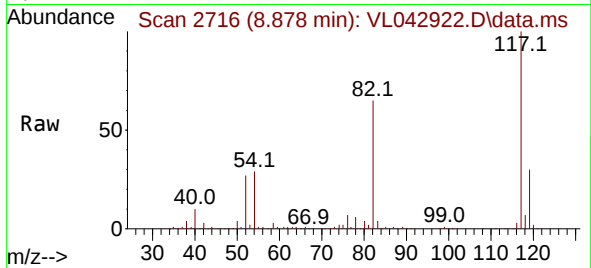




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.010 min
Lab File: VL042922.D
Acq: 10 Sep 2025 10:21

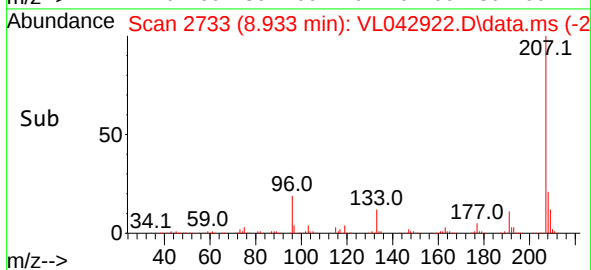
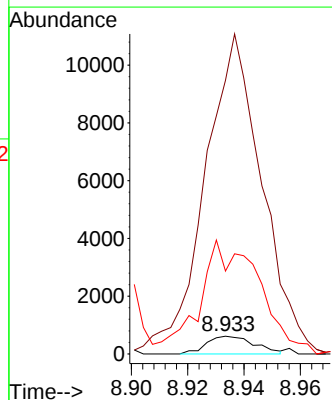
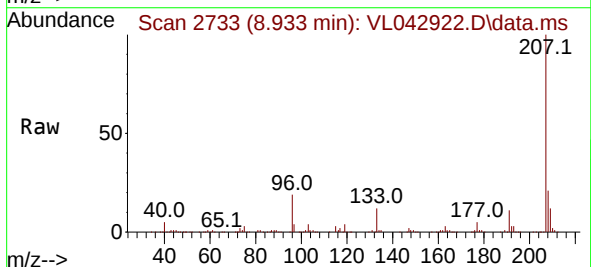
Instrument :
MSVOA_L
ClientSampleId :
VL0910ABL01

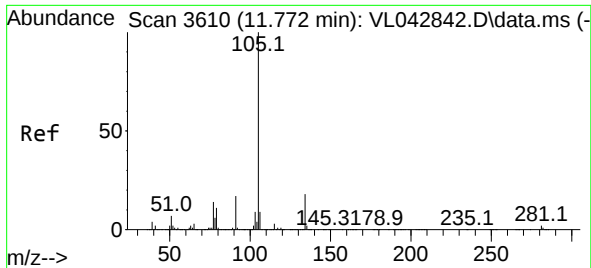
Tgt Ion:117 Resp: 283645
Ion Ratio Lower Upper
117 100
82 67.5 54.6 81.8
119 31.8 25.9 38.9



#56
1,1,1,2-Tetrachloroethane
Concen: 0.050 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.019 min
Lab File: VL042922.D
Acq: 10 Sep 2025 10:21

Tgt Ion:131 Resp: 730
Ion Ratio Lower Upper
131 100
133 2151.1 77.4 116.0#
119 750.7 51.2 76.8#

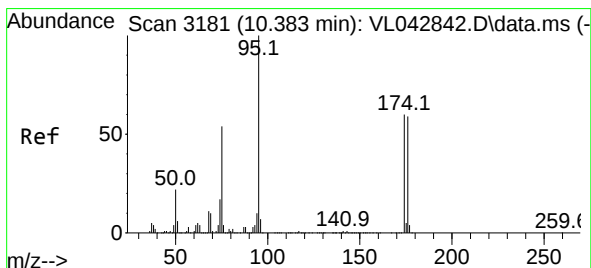
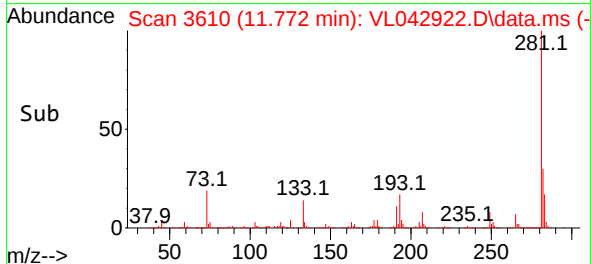
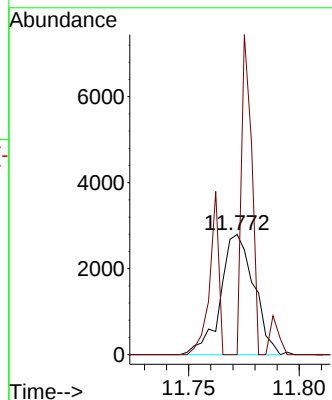
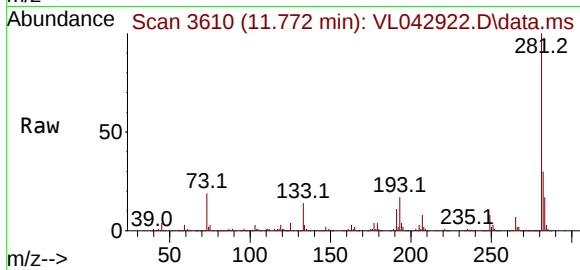




#67
 sec-Butylbenzene
 Concen: 0.041 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.013 min
 Lab File: VL042922.D
 Acq: 10 Sep 2025 10:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0910ABL01

Tgt Ion:105 Resp: 2937
 Ion Ratio Lower Upper
 105 100
 134 127.5 14.9 22.3#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.954 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.010 min
 Lab File: VL042922.D
 Acq: 10 Sep 2025 10:21

Tgt Ion: 95 Resp: 211755
 Ion Ratio Lower Upper
 95 100
 174 56.1 48.4 72.6
 175 4.2 3.8 5.8

