

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091025\
 Data File : VL042927.D
 Acq On : 10 Sep 2025 14:10
 Operator : SY/MD
 Sample : VIBLK
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Quant Time: Sep 11 01:13:23 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)

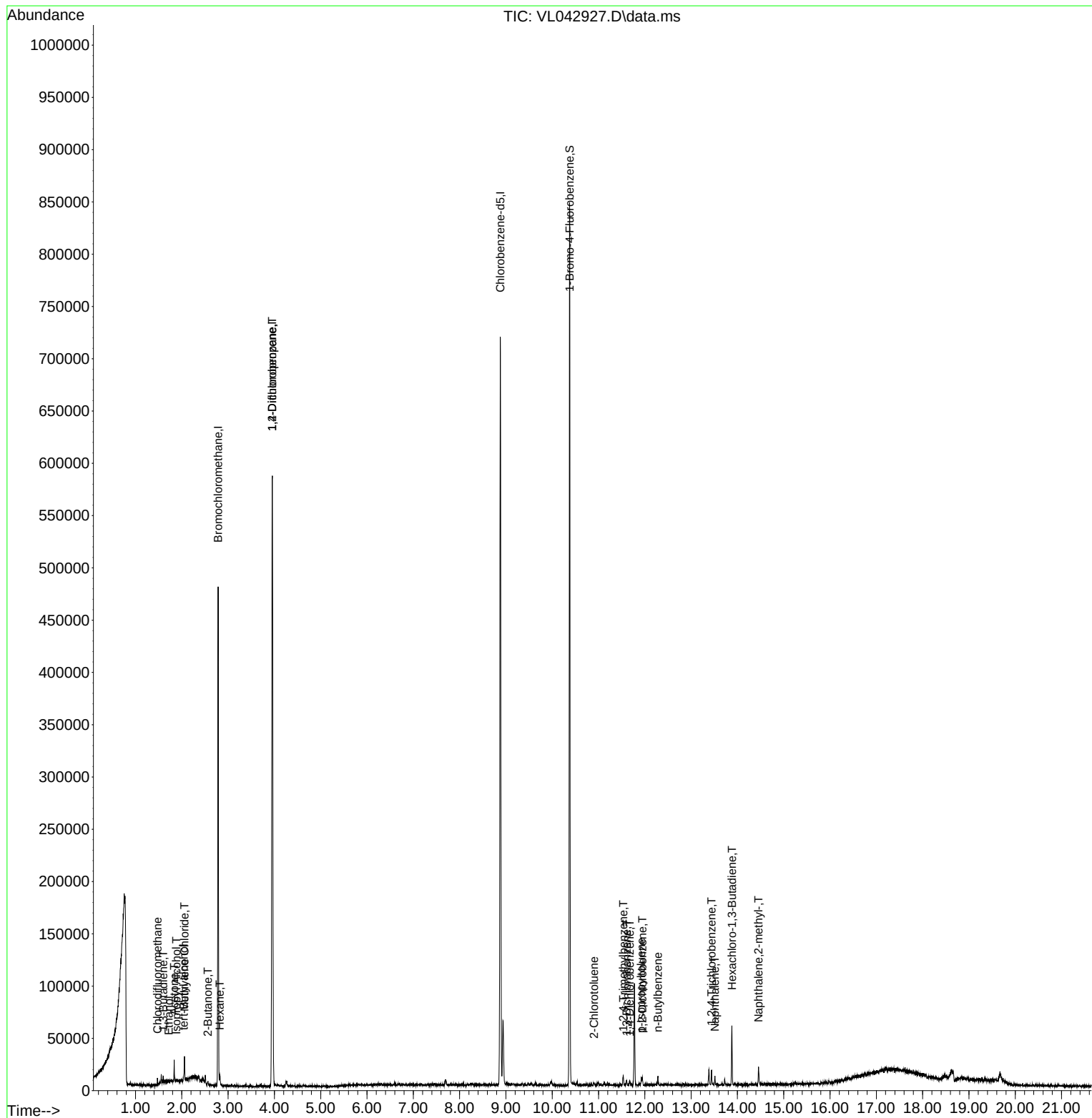
Internal Standards						
1) Bromochloromethane	2.784	49	135448	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	330972	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.878	117	284591	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	212406	9.952	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.473	51	2670	0.122	ppbv #	90
13) Ethanol	1.719	45	259	0.299	ppbv #	32
15) Acetone	1.835	43	7718	0.431	ppbv #	81
16) 1,3-Butadiene	1.599	39	742	0.091	ppbv #	10
17) tert-Butyl alcohol	2.042	59	1940	0.091	ppbv #	84
19) Isopropyl Alcohol	1.884	45	994	0.093	ppbv #	34
20) Methylene Chloride	2.059	84	3413	0.455	ppbv	91
26) Hexane	2.819	57	1945	0.097	ppbv #	43
34) 2-Butanone	2.564	43	1986	0.089	ppbv	92
39) 1,2-Dichloropropane	3.955	63	89955	7.771	ppbv #	26
69) p-Isopropyltoluene	11.924	119	2198	0.036	ppbv	94
70) n-Butylbenzene	12.280	91	2523	0.041	ppbv	94
71) 2-Chlorotoluene	10.904	91	1394	0.031	ppbv	93
74) 1,2,4-Trimethylbenzene	11.536	105	1375	0.031	ppbv #	83
75) 1,3-Dichlorobenzene	11.607	146	992	0.039	ppbv	81
76) 1,4-Dichlorobenzene	11.671	146	1257	0.049	ppbv	95
77) 1,2-Dichlorobenzene	11.947	146	1491	0.060	ppbv	97
78) Hexachloro-1,3-Butadiene	13.882	225	4451	0.218	ppbv	99
79) Naphthalene	13.513	128	3375	0.083	ppbv	97
80) Naphthalene,2-methyl-	14.455	142	5119	0.337	ppbv	97
81) 1,2,4-Trichlorobenzene	13.439	180	2187	0.107	ppbv	89

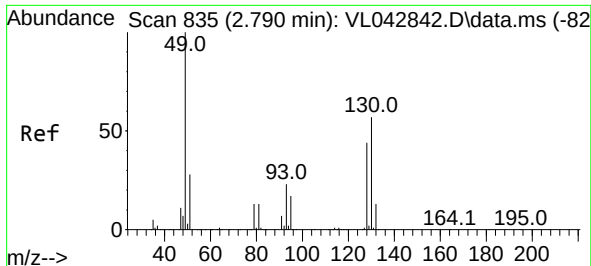
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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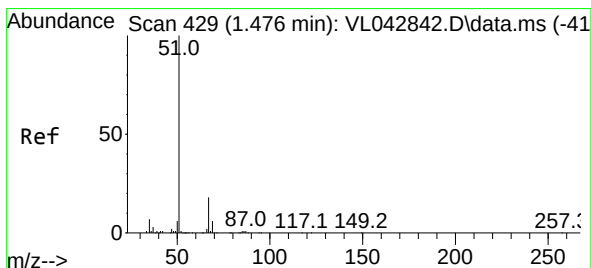
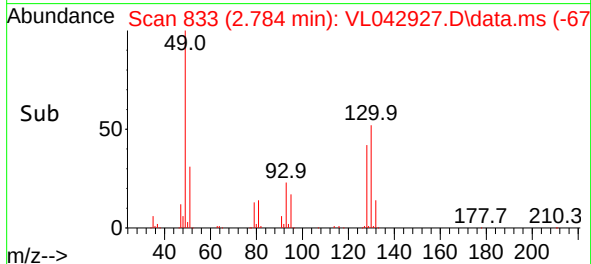
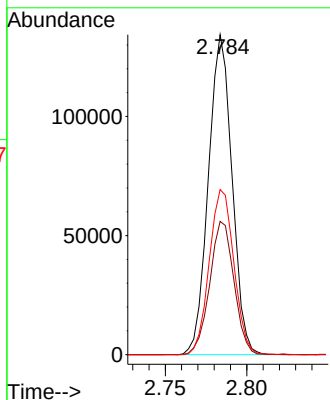
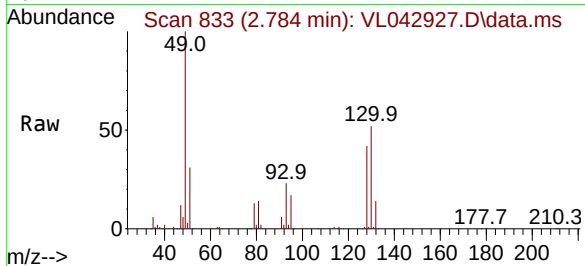




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 835
Delta R.T. 0.007 min
Lab File: VL042927.D
Acq: 10 Sep 2025 14:10

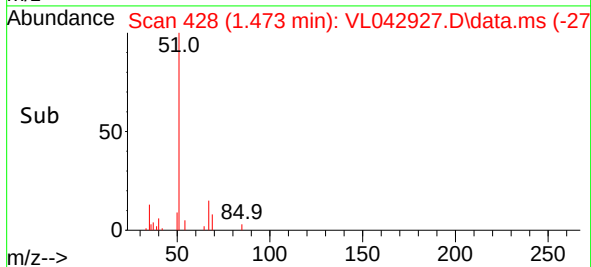
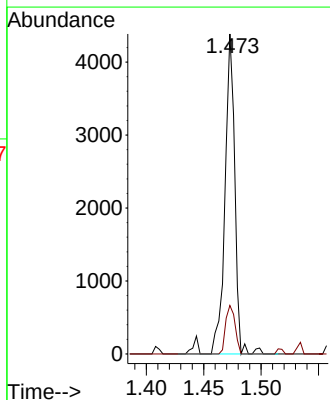
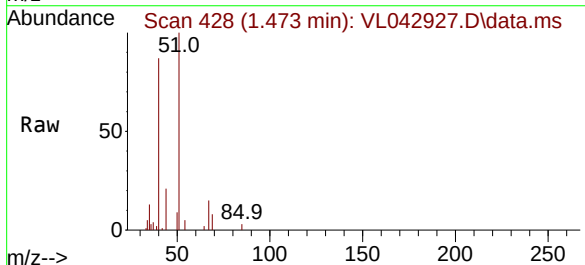
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

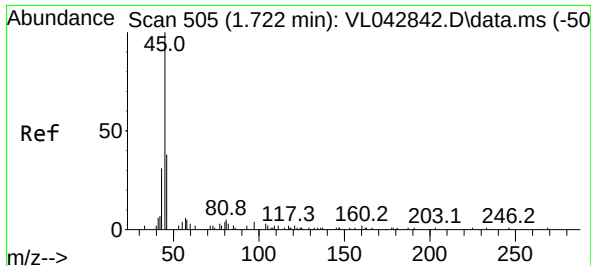
Tgt Ion: 49 Resp: 135448
Ion Ratio Lower Upper
49 100
128 42.7 23.7 71.1
130 53.8 30.6 91.6



#3
Chlorodifluoromethane
Concen: 0.122 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042927.D
Acq: 10 Sep 2025 14:10

Tgt Ion: 51 Resp: 2670
Ion Ratio Lower Upper
51 100
67 14.2 14.9 22.3#

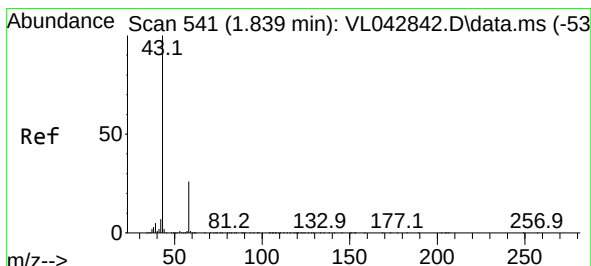
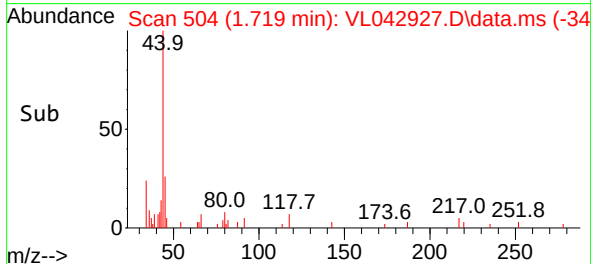
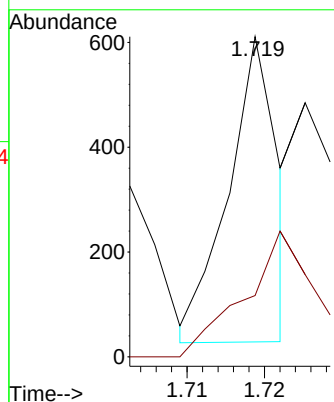
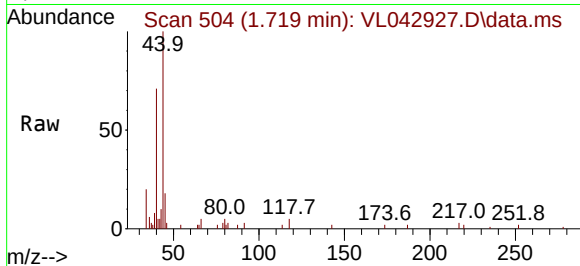




#13
Ethanol
Concen: 0.299 ppbv
RT: 1.719 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042927.D
Acq: 10 Sep 2025 14:10

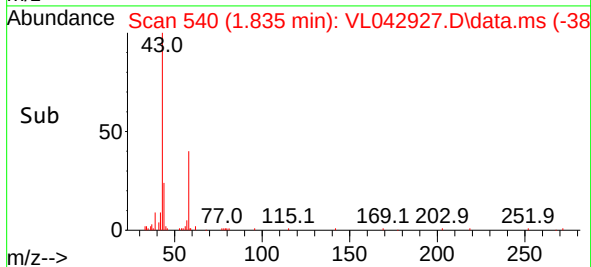
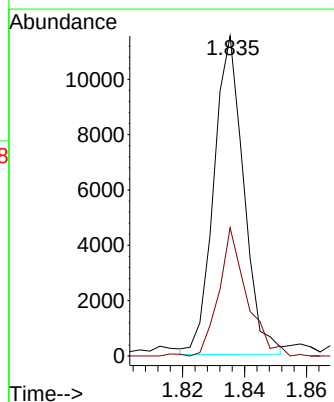
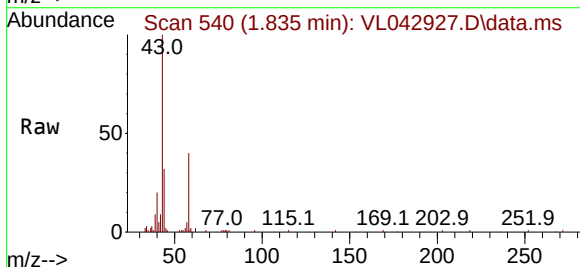
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

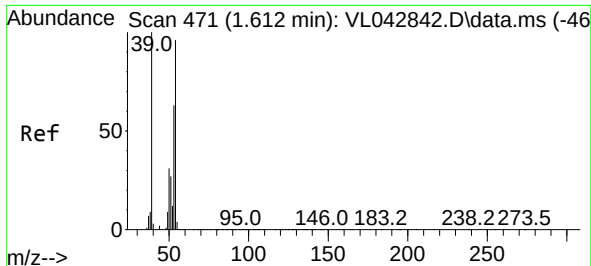
Tgt Ion: 45 Resp: 259
Ion Ratio Lower Upper
45 100
46 0.0 17.5 69.9#



#15
Acetone
Concen: 0.431 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.006 min
Lab File: VL042927.D
Acq: 10 Sep 2025 14:10

Tgt Ion: 43 Resp: 7718
Ion Ratio Lower Upper
43 100
58 37.9 22.4 33.6#

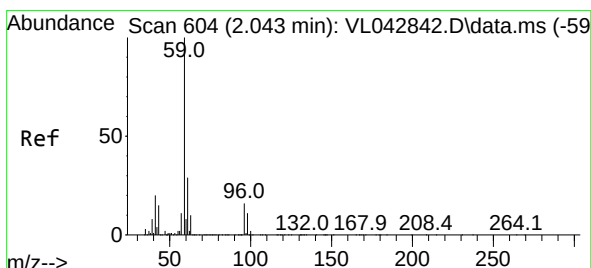
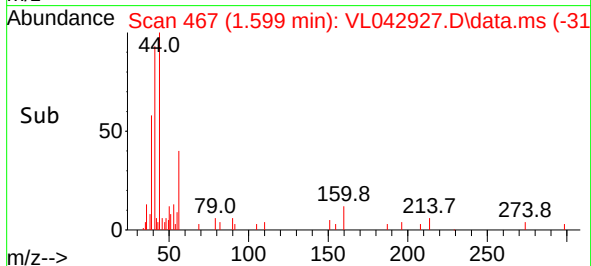
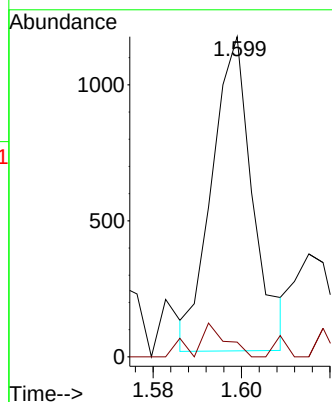
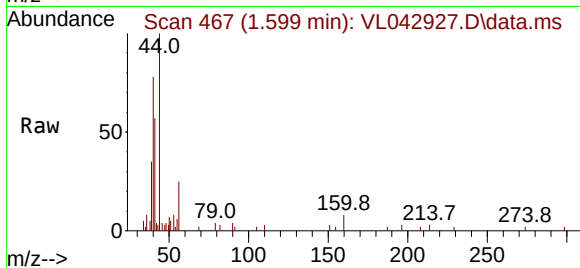




#16
1,3-Butadiene
Concen: 0.091 ppbv
RT: 1.599 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042927.D
Acq: 10 Sep 2025 14:10

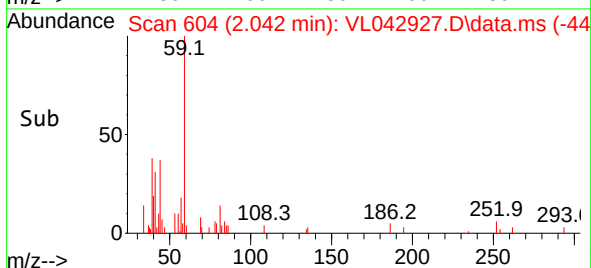
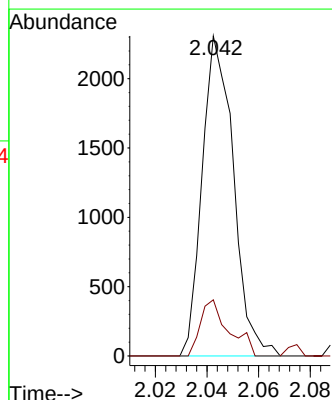
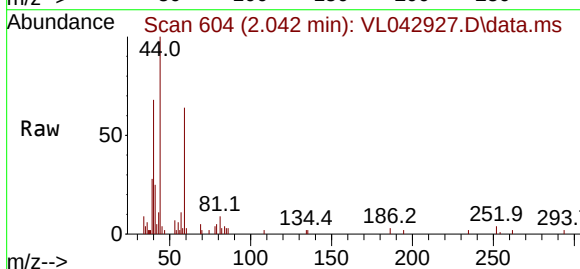
Instrument :
MSVOA_L
ClientSampleId :
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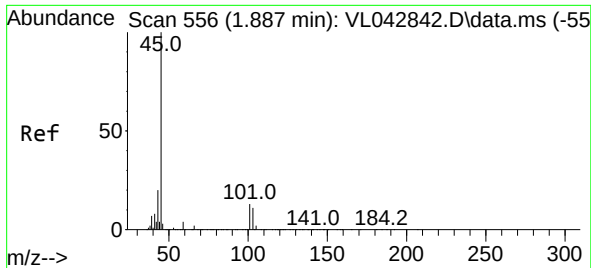
Tgt Ion: 39 Resp: 742
Ion Ratio Lower Upper
39 100
54 0.0 63.6 95.4#



#17
tert-Butyl alcohol
Concen: 0.091 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.009 min
Lab File: VL042927.D
Acq: 10 Sep 2025 14:10

Tgt Ion: 59 Resp: 1940
Ion Ratio Lower Upper
59 100
57 17.3 9.0 13.4#

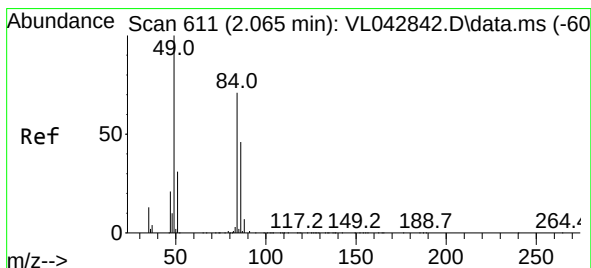
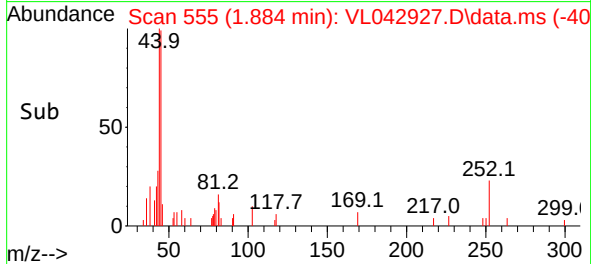
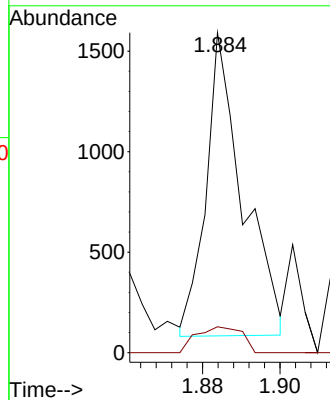
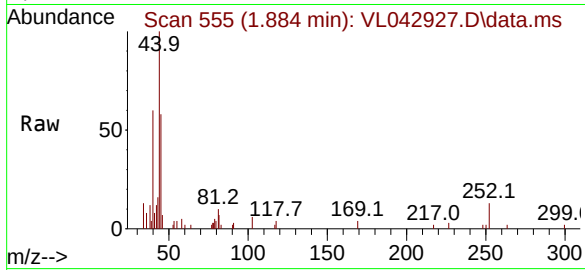




#19
Isopropyl Alcohol
Concen: 0.093 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042927.D
Acq: 10 Sep 2025 14:10

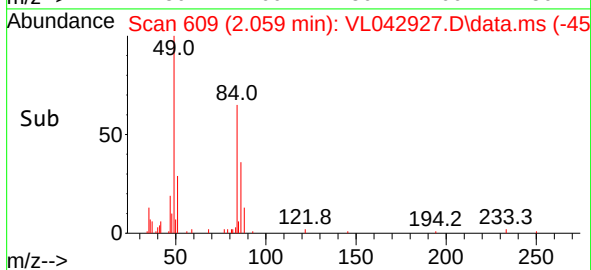
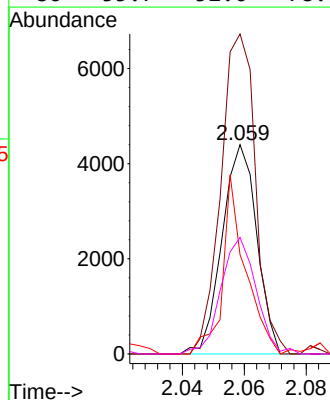
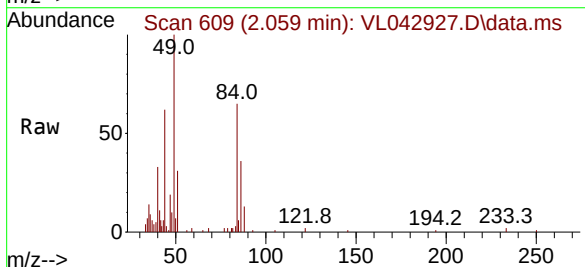
Instrument :
MSVOA_L
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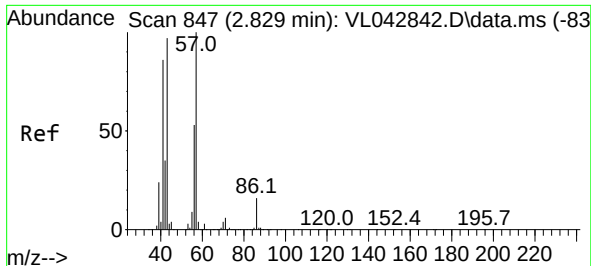
Tgt Ion: 45 Resp: 994
Ion Ratio Lower Upper
45 100
58 0.0 32.7 49.1#



#20
Methylene Chloride
Concen: 0.455 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL042927.D
Acq: 10 Sep 2025 14:10

Tgt Ion: 84 Resp: 3413
Ion Ratio Lower Upper
84 100
49 153.0 112.3 168.5
51 47.4 36.0 54.0
86 55.7 52.0 78.0

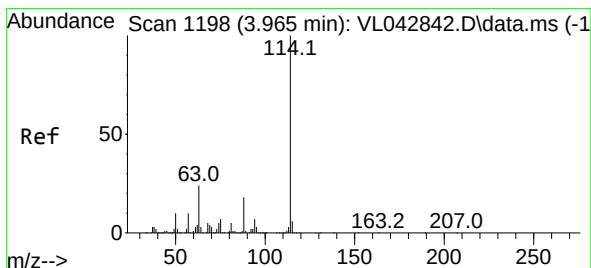
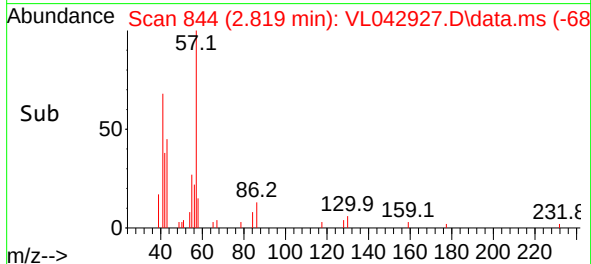
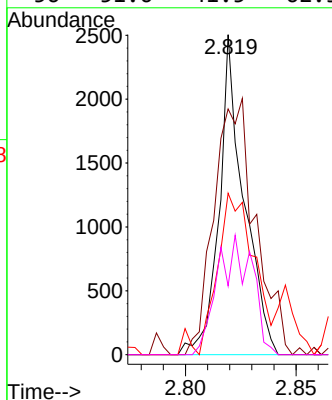
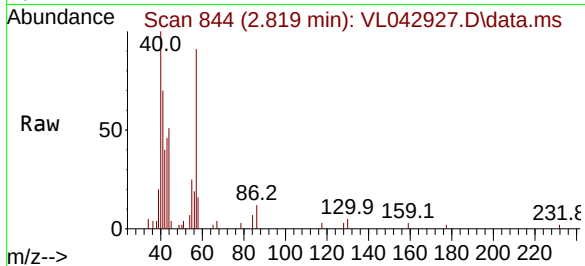




#26
Hexane
Concen: 0.097 ppbv
RT: 2.819 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042927.D
Acq: 10 Sep 2025 14:10

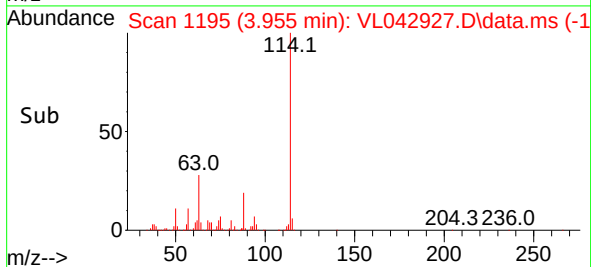
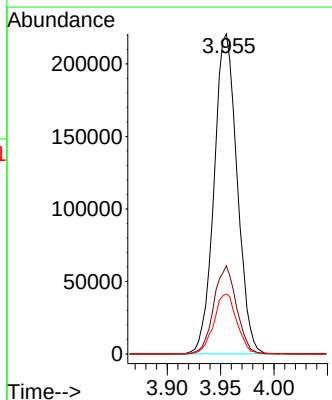
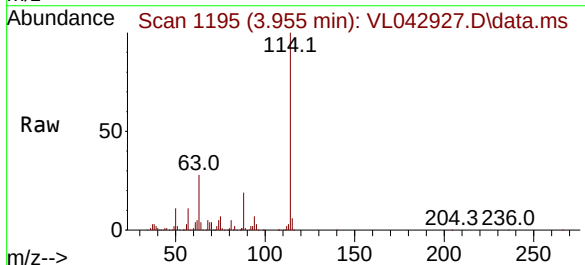
Instrument :
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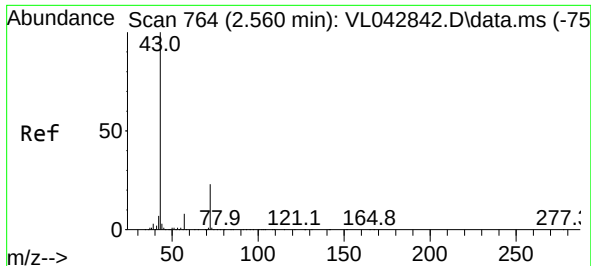
Tgt Ion: 57 Resp: 1945
Ion Ratio Lower Upper
57 100
41 136.1 68.6 103.0#
43 97.8 168.5 252.7#
56 51.6 41.5 62.3



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.013 min
Lab File: VL042927.D
Acq: 10 Sep 2025 14:10

Tgt Ion: 114 Resp: 330972
Ion Ratio Lower Upper
114 100
63 27.3 19.7 29.5
88 18.8 14.4 21.6

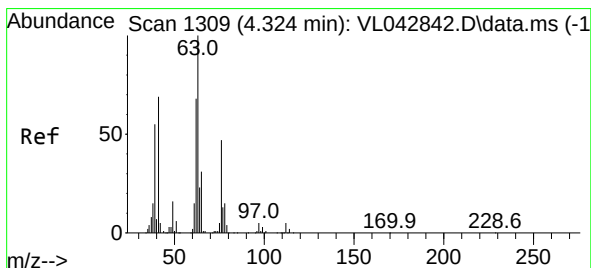
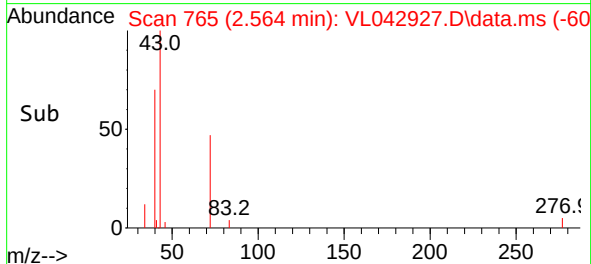
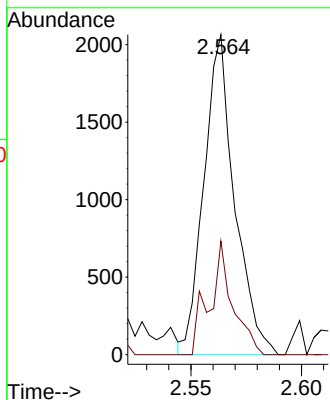
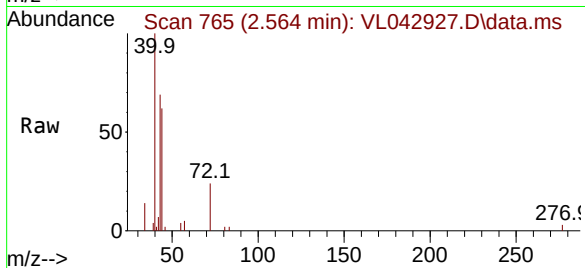




#34
2-Butanone
Concen: 0.089 ppbv
RT: 2.564 min Scan# 71
Delta R.T. 0.016 min
Lab File: VL042927.D
Acq: 10 Sep 2025 14:10

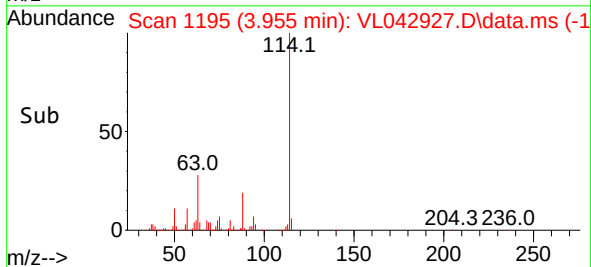
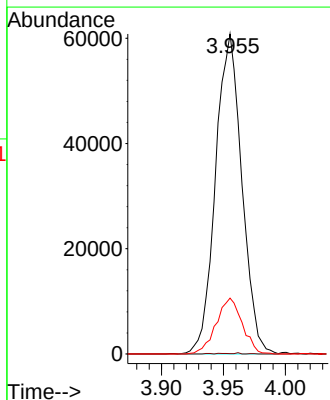
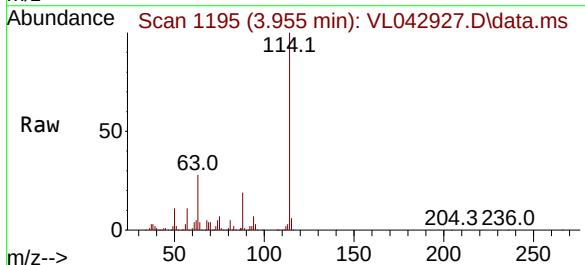
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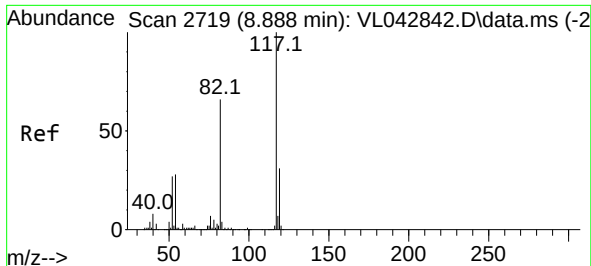
Tgt Ion: 43 Resp: 1986
Ion Ratio Lower Upper
43 100
72 27.0 18.6 28.0



#39
1,2-Dichloropropane
Concen: 7.771 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.343 min
Lab File: VL042927.D
Acq: 10 Sep 2025 14:10

Tgt Ion: 63 Resp: 89955
Ion Ratio Lower Upper
63 100
41 0.2 55.0 82.4#
62 17.4 54.4 81.6#

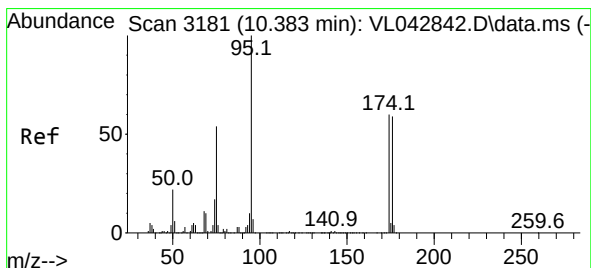
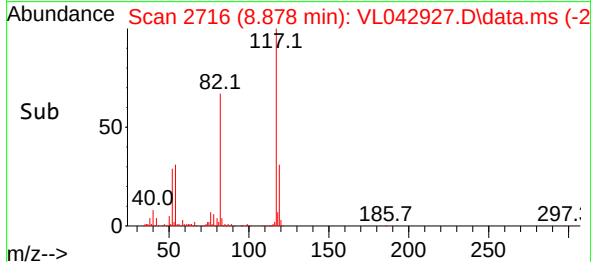
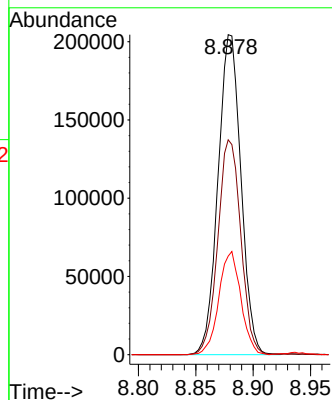
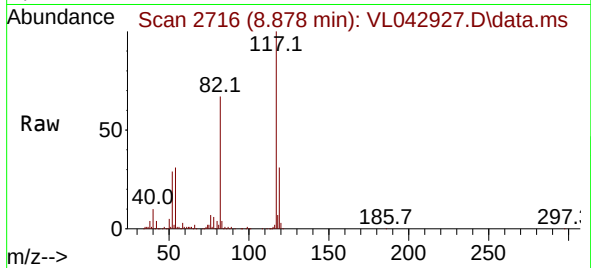




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL042927.D
Acq: 10 Sep 2025 14:10

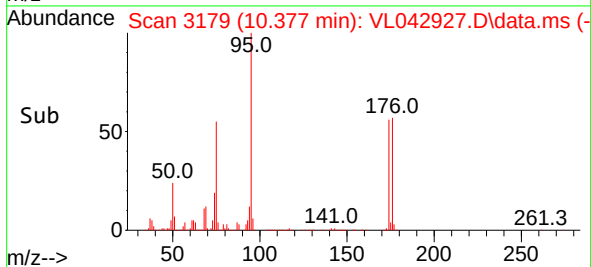
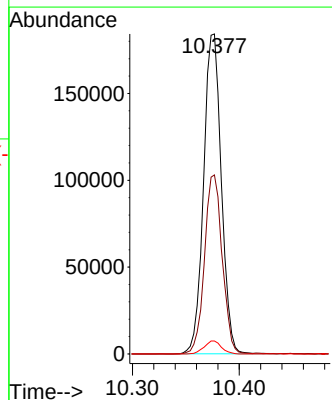
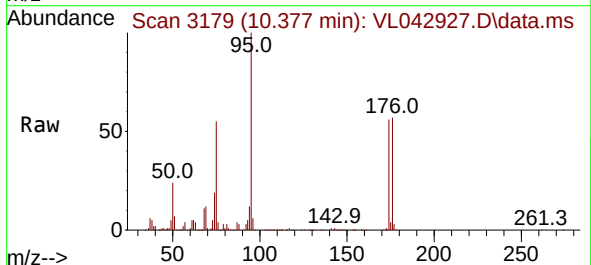
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

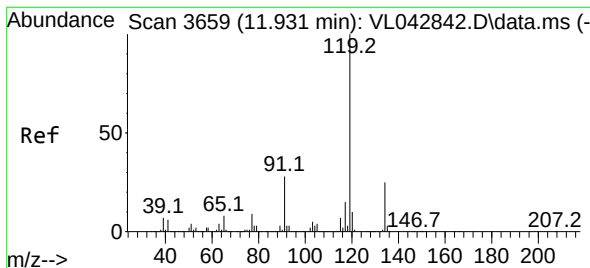
Tgt Ion:117 Resp: 284591
Ion Ratio Lower Upper
117 100
82 67.1 54.6 81.8
119 31.1 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 9.952 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.013 min
Lab File: VL042927.D
Acq: 10 Sep 2025 14:10

Tgt Ion: 95 Resp: 212406
Ion Ratio Lower Upper
95 100
174 56.0 48.4 72.6
175 3.9 3.8 5.8

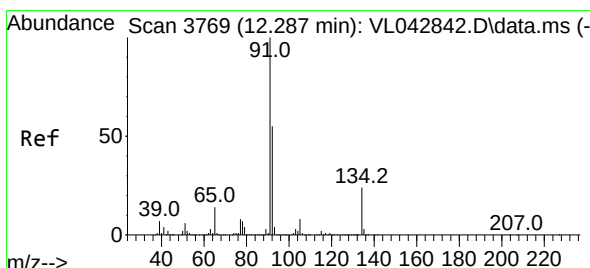
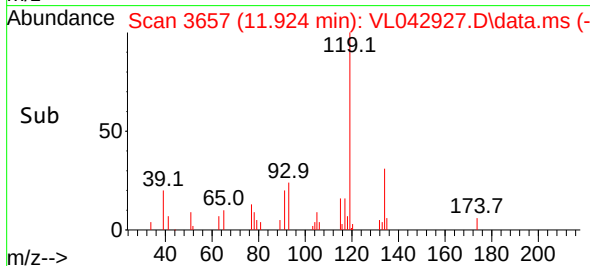
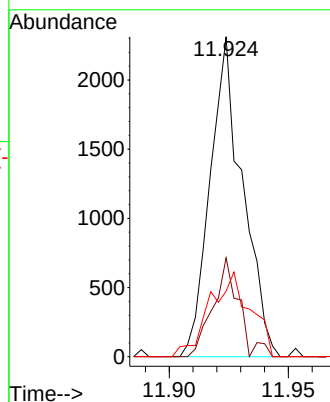
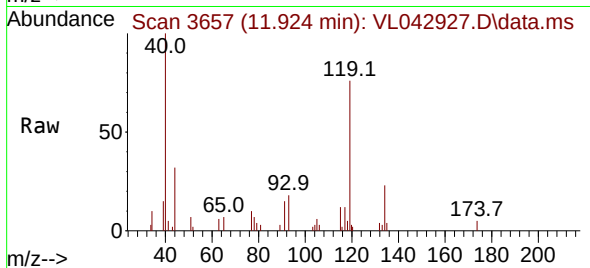




#69
 p-Isopropyltoluene
 Concen: 0.036 ppbv
 RT: 11.924 min Scan# 30
 Delta R.T. 0.006 min
 Lab File: VL042927.D
 Acq: 10 Sep 2025 14:10

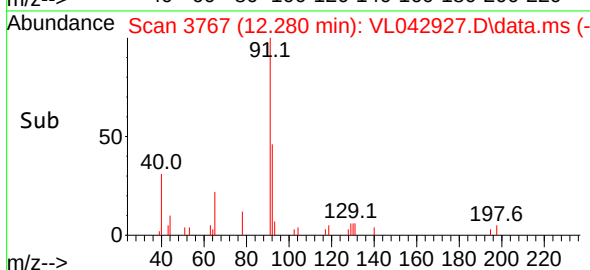
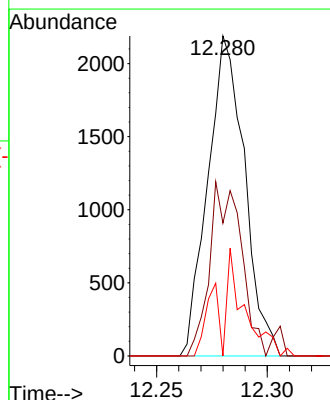
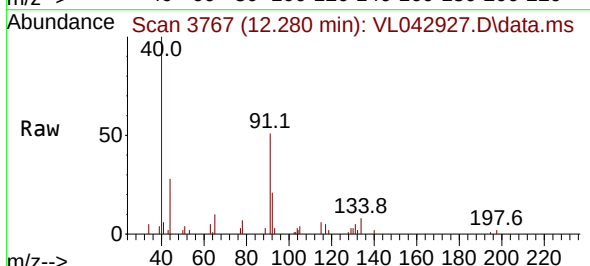
Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

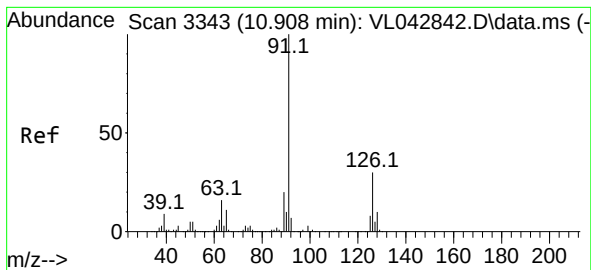
Tgt Ion:	119	Resp:	2198
Ion	Ratio	Lower	Upper
119	100		
134	24.5	20.6	30.8
91	33.0	22.6	34.0



#70
 n-Butylbenzene
 Concen: 0.041 ppbv
 RT: 12.280 min Scan# 3767
 Delta R.T. 0.006 min
 Lab File: VL042927.D
 Acq: 10 Sep 2025 14:10

Tgt Ion:	91	Resp:	2523
Ion	Ratio	Lower	Upper
91	100		
92	49.2	44.6	66.8
134	23.8	19.0	28.4





#71

2-Chlorotoluene

Concen: 0.031 ppbv

RT: 10.904 min Scan# 31

Delta R.T. 0.013 min

Lab File: VL042927.D

Acq: 10 Sep 2025 14:10

Instrument :

MSVOA_L

ClientSampleId :

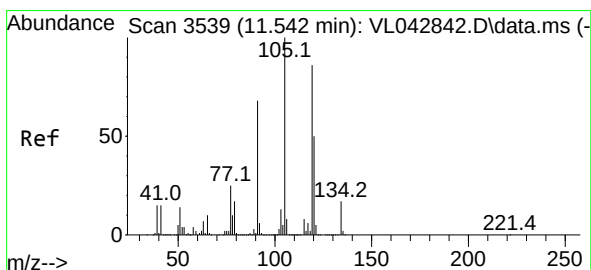
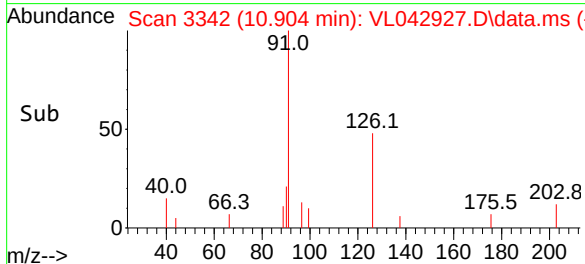
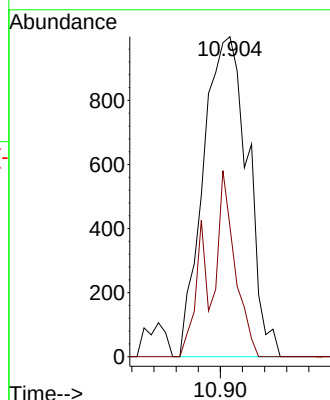
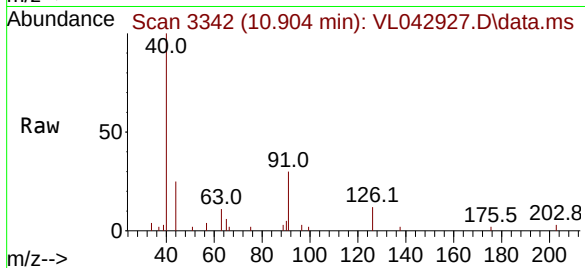
VIBLK

Tgt Ion: 91 Resp: 1394

Ion Ratio Lower Upper

91 100

126 33.6 12.0 47.8



#74

1,2,4-Trimethylbenzene

Concen: 0.031 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.006 min

Lab File: VL042927.D

Acq: 10 Sep 2025 14:10

Tgt Ion: 105 Resp: 1375

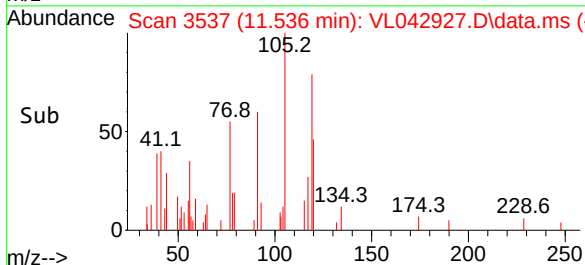
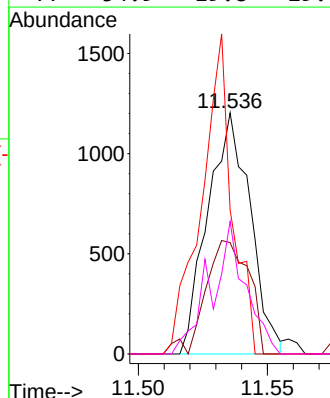
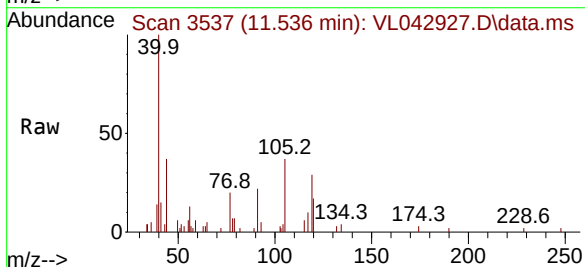
Ion Ratio Lower Upper

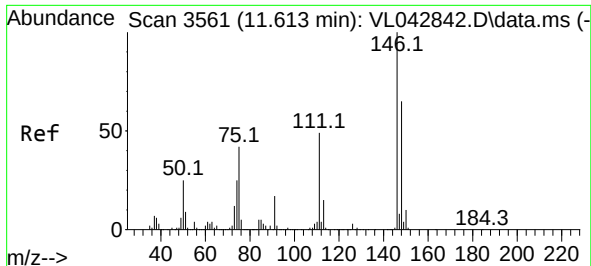
105 100

120 46.2 39.8 59.6

91 59.8 54.2 81.4

77 54.9 19.8 29.6#

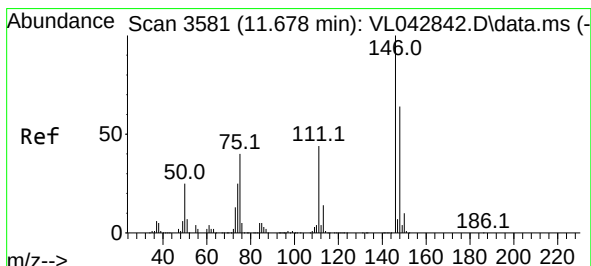
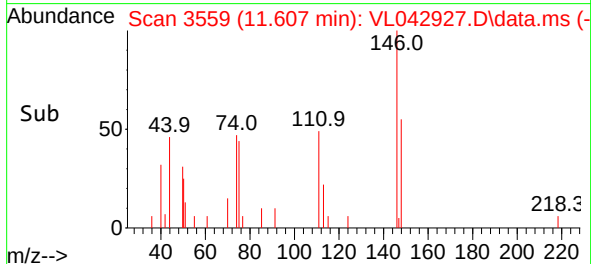
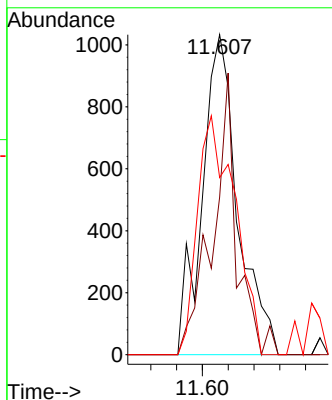
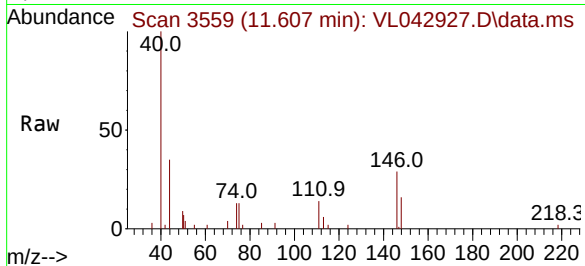




#75
1,3-Dichlorobenzene
Concen: 0.039 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.009 min
Lab File: VL042927.D
Acq: 10 Sep 2025 14:10

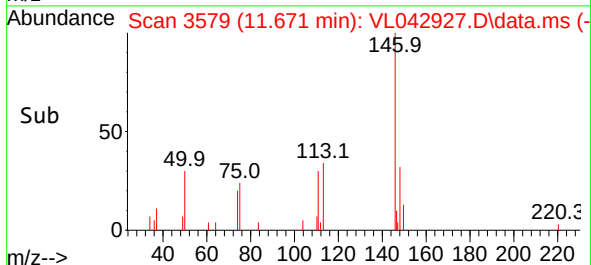
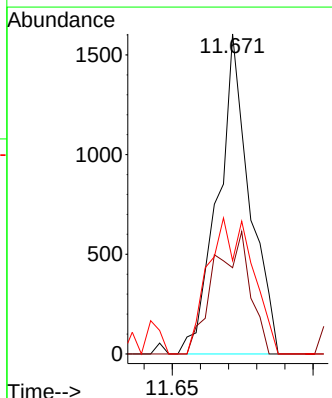
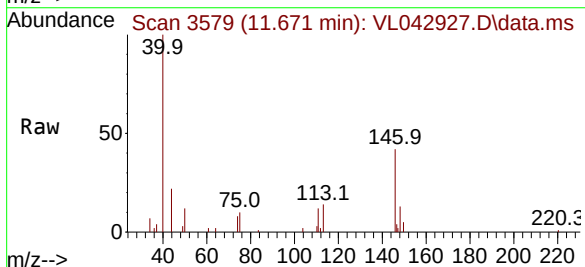
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

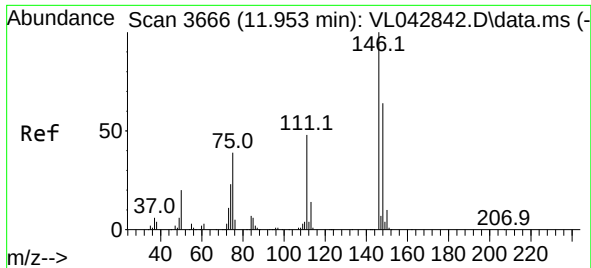
Tgt Ion:146 Resp: 992
Ion Ratio Lower Upper
146 100
111 59.3 23.9 71.7
148 78.5 31.4 94.0



#76
1,4-Dichlorobenzene
Concen: 0.049 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. 0.009 min
Lab File: VL042927.D
Acq: 10 Sep 2025 14:10

Tgt Ion:146 Resp: 1257
Ion Ratio Lower Upper
146 100
111 43.2 22.7 68.1
148 59.2 31.8 95.3

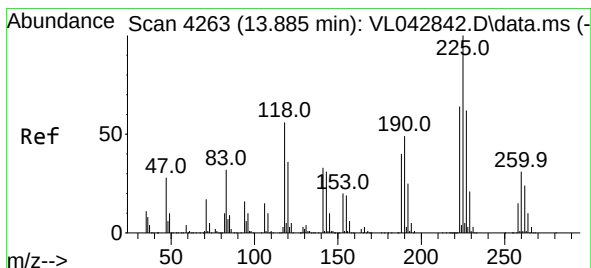
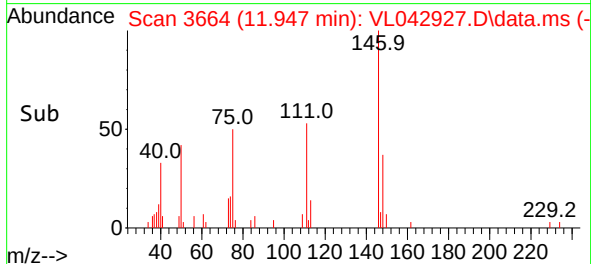
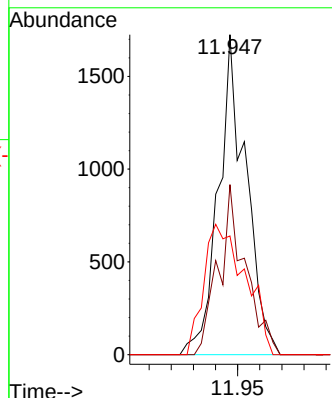
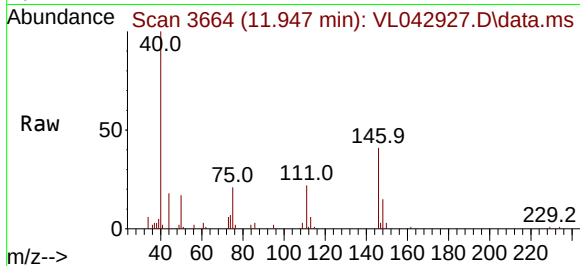




#77
1,2-Dichlorobenzene
Concen: 0.060 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.006 min
Lab File: VL042927.D
Acq: 10 Sep 2025 14:10

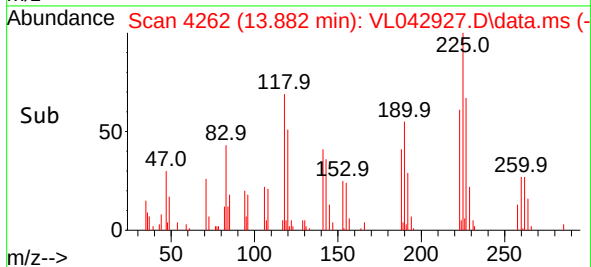
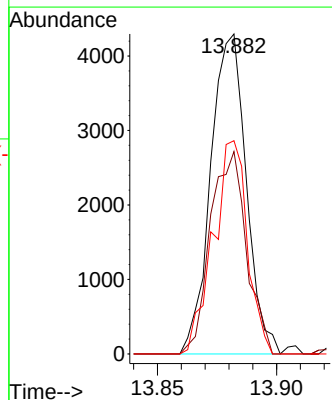
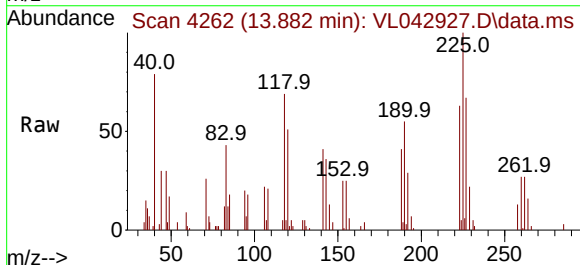
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

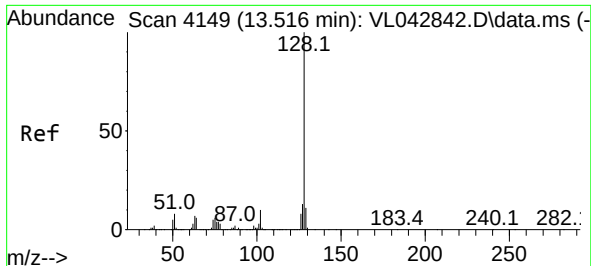
Tgt Ion:146 Resp: 1491
Ion Ratio Lower Upper
146 100
111 51.5 24.6 74.0
148 61.2 32.0 96.0



#78
Hexachloro-1,3-Butadiene
Concen: 0.218 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.009 min
Lab File: VL042927.D
Acq: 10 Sep 2025 14:10

Tgt Ion:225 Resp: 4451
Ion Ratio Lower Upper
225 100
223 64.2 51.4 77.2
227 63.8 51.9 77.9

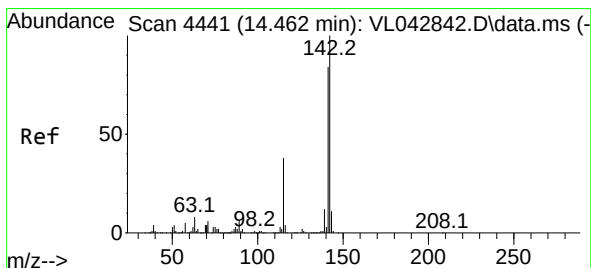
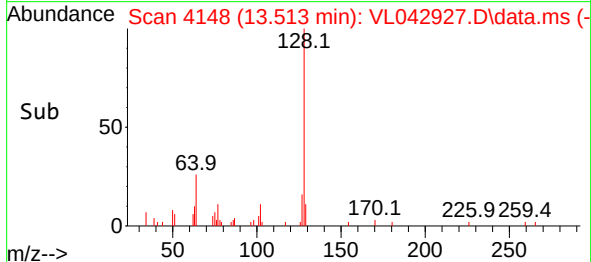
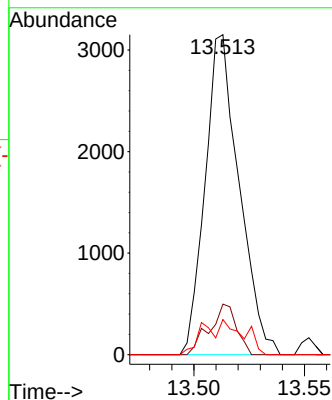
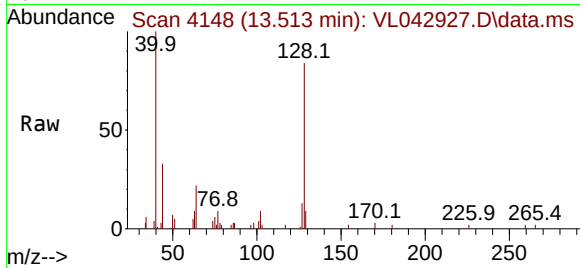




#79
Naphthalene
Concen: 0.083 ppbv
RT: 13.513 min Scan# 4149
Delta R.T. 0.009 min
Lab File: VL042927.D
Acq: 10 Sep 2025 14:10

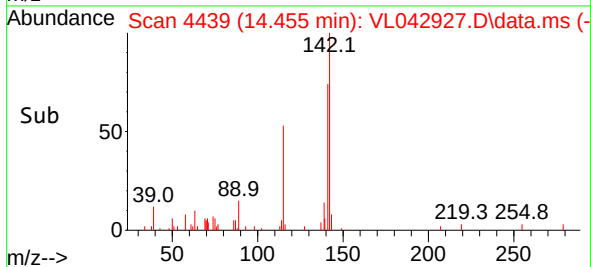
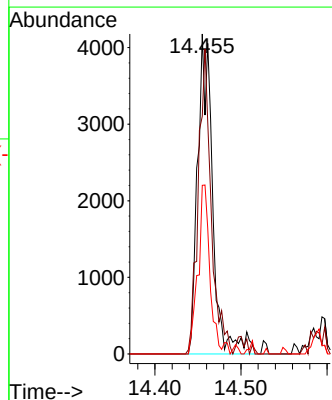
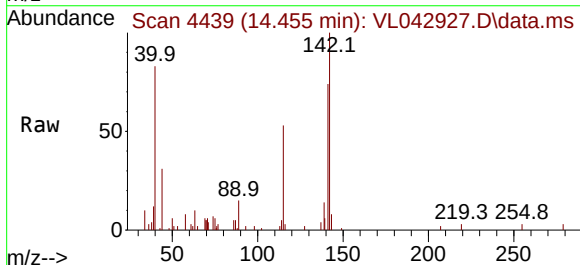
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

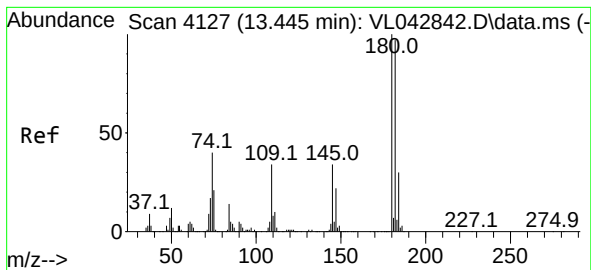
Tgt Ion:	128	Resp:	3375
Ion Ratio	Lower	Upper	
128	100		
127	15.8	10.6	16.0
129	11.0	8.9	13.3



#80
Naphthalene,2-methyl-
Concen: 0.337 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.006 min
Lab File: VL042927.D
Acq: 10 Sep 2025 14:10

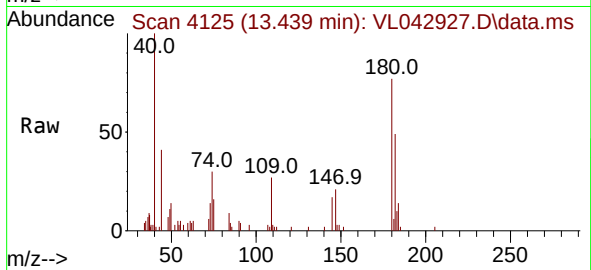
Tgt Ion:	142	Resp:	5119
Ion Ratio	Lower	Upper	
142	100		
141	85.1	67.0	100.6
115	41.9	30.9	46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 0.107 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042927.D
 Acq: 10 Sep 2025 14:10

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK



Tgt Ion:	180	Resp:	2187
Ion	Ratio	Lower	Upper
180	100		
182	84.7	76.9	115.3
184	35.7	24.5	36.7

