

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
 Data File : VV039169.D
 Acq On : 25 Sep 2025 10:31
 Operator : SY/MD
 Sample : VV0925MBL01
 Misc : 5.0g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VV0925MBL01

Quant Time: Sep 26 01:20:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

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

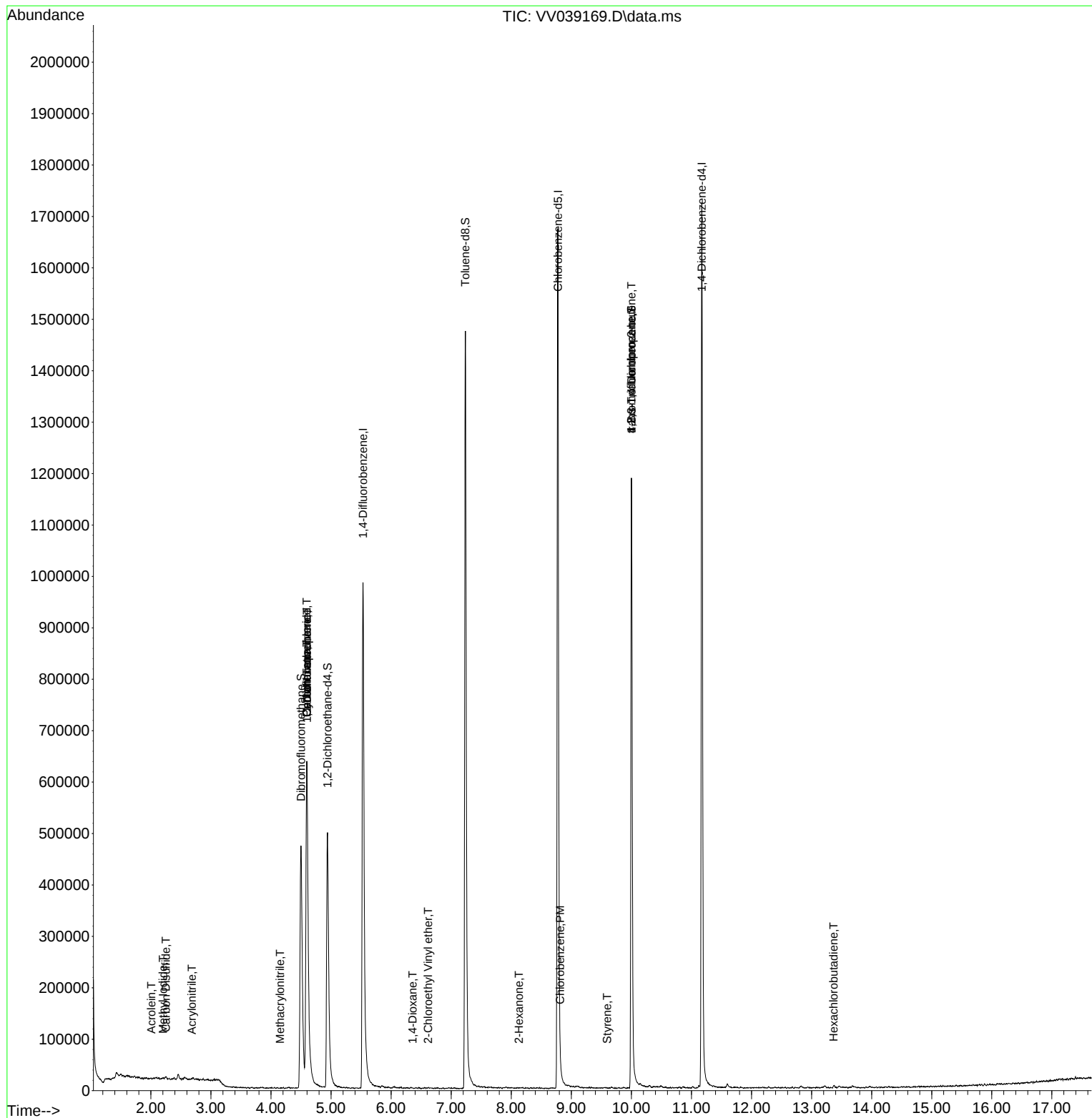
Internal Standards						
1) Pentafluorobenzene	4.597	168	536470	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	954712	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	941473	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	452663	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	437769	56.382	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 112.760%			
35) Dibromofluoromethane	4.500	113	393702	51.296	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 102.600%			
50) Toluene-d8	7.236	98	1070675	47.497	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 95.000%			
62) 4-Bromofluorobenzene	10.002	95	404772	43.618	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 87.240%			
Target Compounds						
					Qvalue	
6) Chloroethane	1.555	64	668	Below Cal	#	44
10) Methyl Iodide	2.201	142	1676	0.209	ug/l #	84
13) Acrolein	2.008	56	412	1.447	ug/l #	15
15) Acrylonitrile	2.683	53	1194	0.227	ug/l #	23
16) Acetone	2.127	43	1516	Below Cal	#	68
17) Carbon Disulfide	2.249	76	6757	0.273	ug/l #	88
20) Methylene Chloride	2.458	84	4688	Below Cal	#	80
31) Cyclohexane	4.597	56	11633	0.840	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	47126	4.061	ug/l #	41
38) Carbon Tetrachloride	4.597	117	55557	3.917	ug/l #	18
41) Methacrylonitrile	4.153	41	72	1.921	ug/l #	56
49) 1,4-Dioxane	6.359	88	88	0.627	ug/l #	54
58) 2-Chloroethyl Vinyl ether	6.616	63	70	9.633	ug/l	99
59) 2-Hexanone	8.127	43	137	2.339	ug/l	63
65) Chlorobenzene	8.815	112	7421	0.283	ug/l #	89
70) Styrene	9.596	104	148	1.566	ug/l	97
76) 1,2,3-Trichloropropane	10.002	75	204882	19.879	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.002	75	204882	47.724	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.345	75	108	Below Cal	#	5
94) Hexachlorobutadiene	13.368	225	980	0.204	ug/l #	62

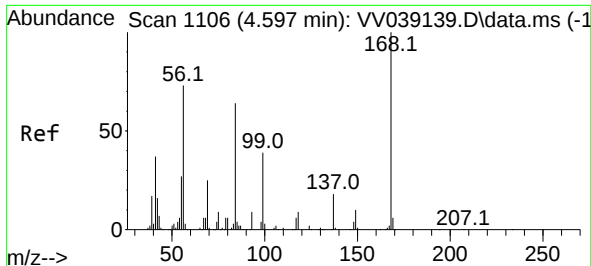
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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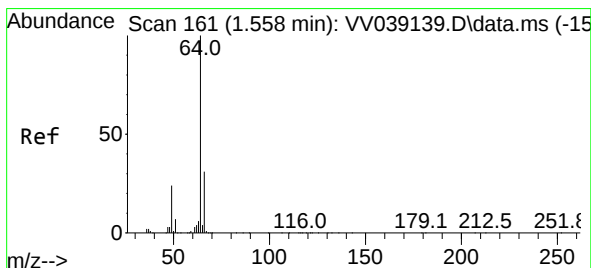
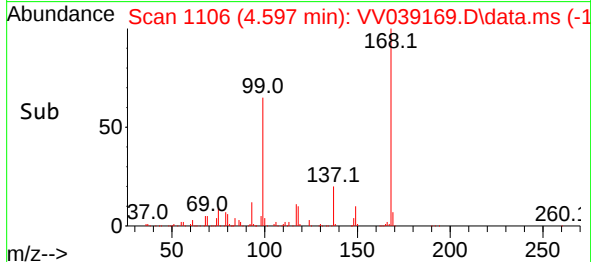
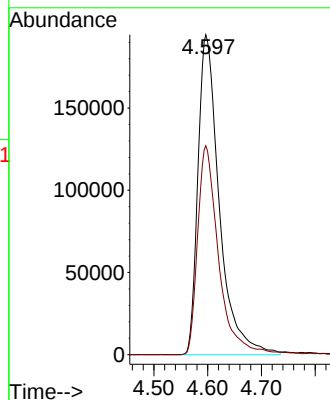
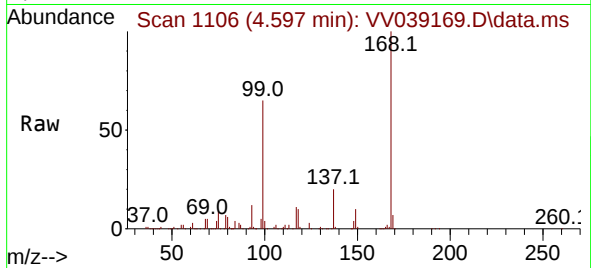




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.597 min Scan# 1106
Delta R.T. -0.000 min
Lab File: VV039169.D
Acq: 25 Sep 2025 10:31

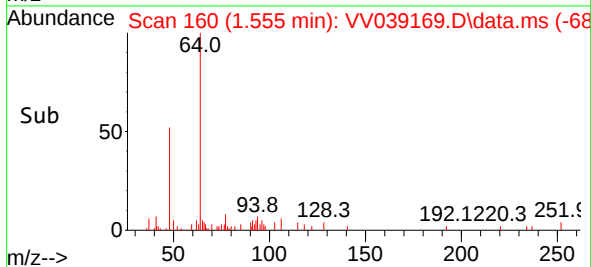
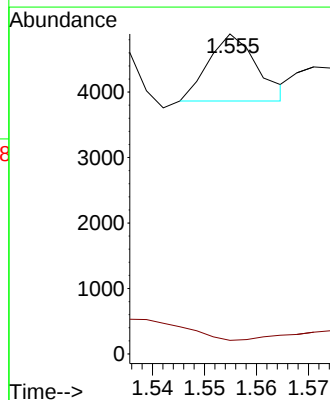
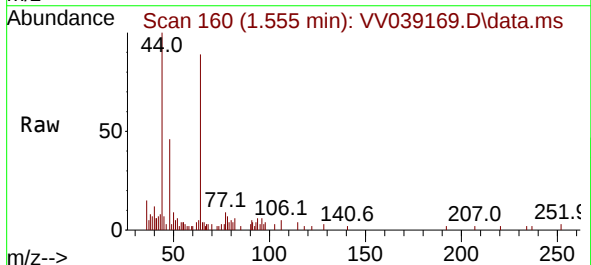
Instrument :
MSVOA_V
ClientSampleId :
VV0925MBL01

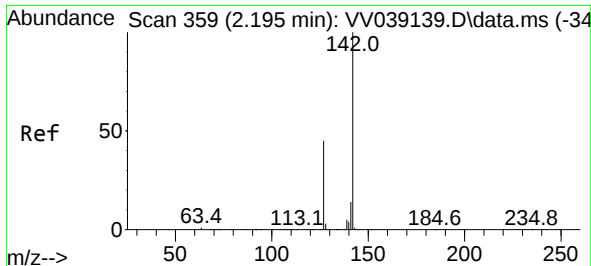
Tgt Ion:168 Resp: 536470
Ion Ratio Lower Upper
168 100
99 65.3 49.6 74.4



#6
Chloroethane
Concen: Below Cal
RT: 1.555 min Scan# 160
Delta R.T. -0.003 min
Lab File: VV039169.D
Acq: 25 Sep 2025 10:31

Tgt Ion: 64 Resp: 668
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#

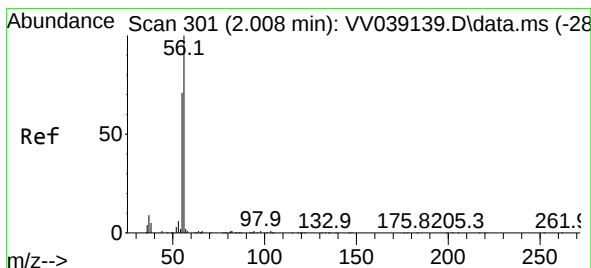
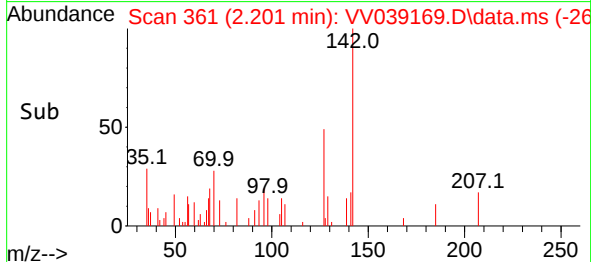
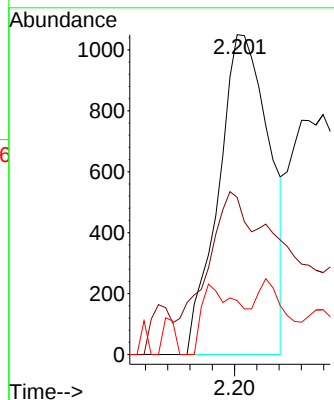
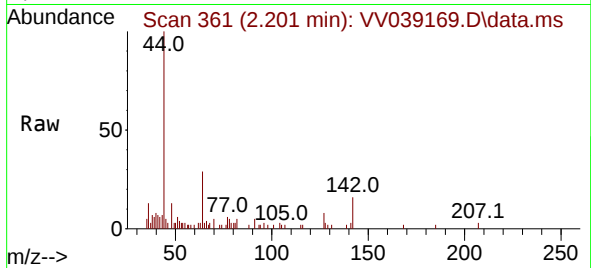




#10
Methyl Iodide
Concen: 0.209 ug/l
RT: 2.201 min Scan# 301
Delta R.T. 0.006 min
Lab File: VV039169.D
Acq: 25 Sep 2025 10:31

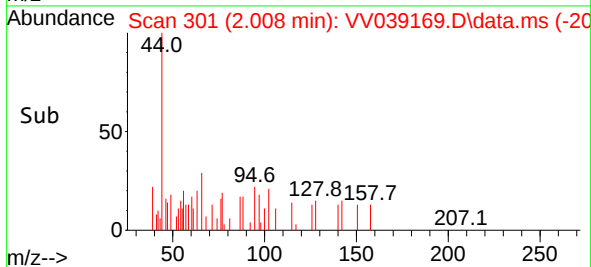
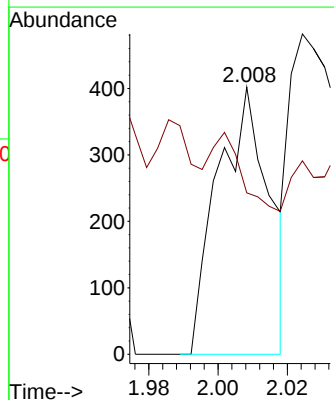
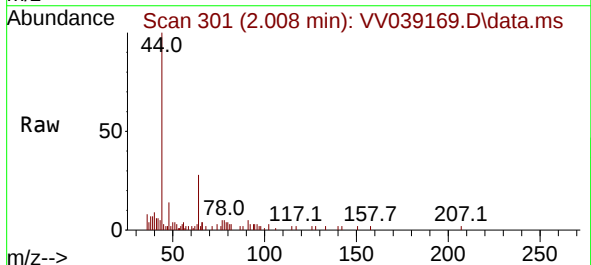
Instrument :
MSVOA_V
ClientSampleId :
VV0925MBL01

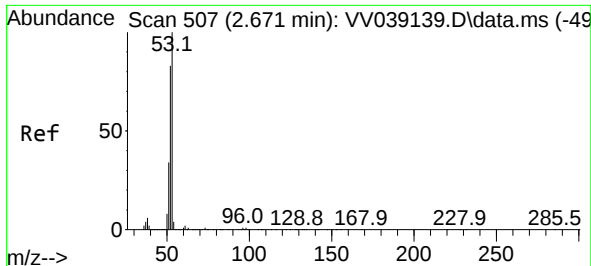
Tgt Ion:142 Resp: 1676
Ion Ratio Lower Upper
142 100
127 58.9 36.3 54.5#
141 14.7 11.2 16.8



#13
Acrolein
Concen: 1.447 ug/l
RT: 2.008 min Scan# 301
Delta R.T. 0.000 min
Lab File: VV039169.D
Acq: 25 Sep 2025 10:31

Tgt Ion: 56 Resp: 412
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#

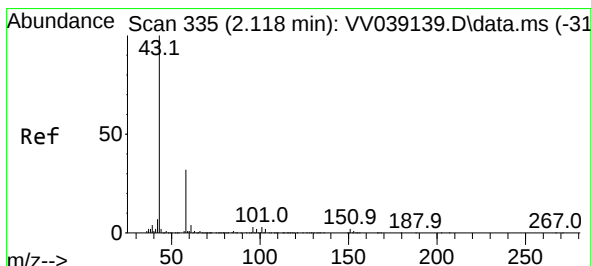
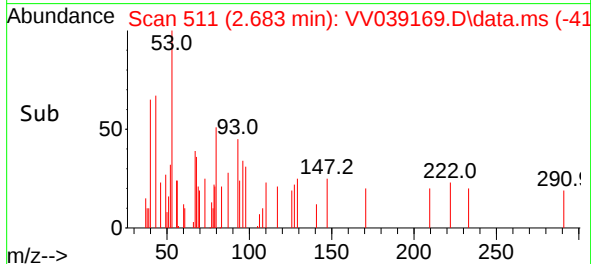
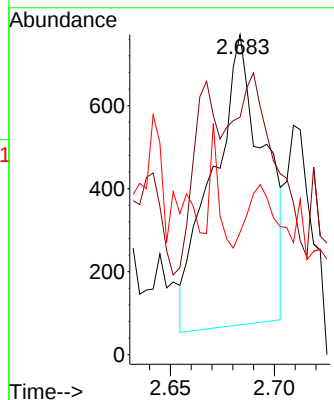
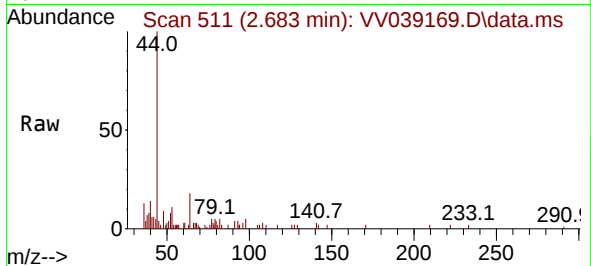




#15
Acrylonitrile
Concen: 0.227 ug/l
RT: 2.683 min Scan# 511
Delta R.T. 0.013 min
Lab File: VV039169.D
Acq: 25 Sep 2025 10:31

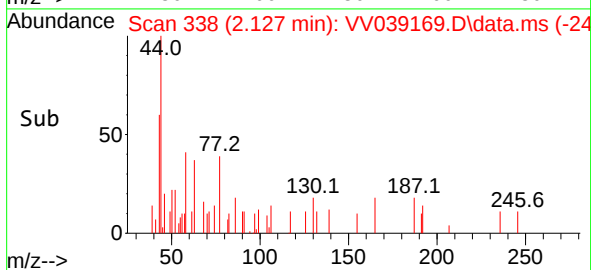
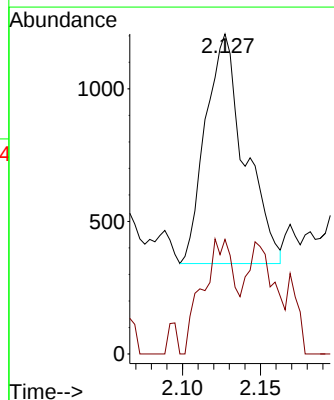
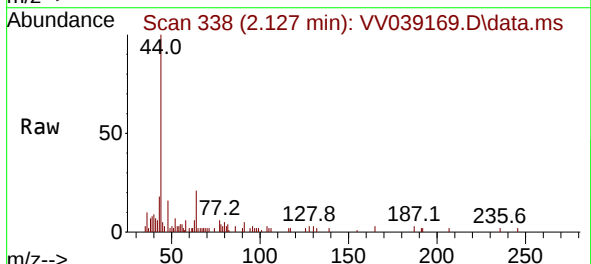
Instrument :
MSVOA_V
ClientSampleId :
VV0925MBL01

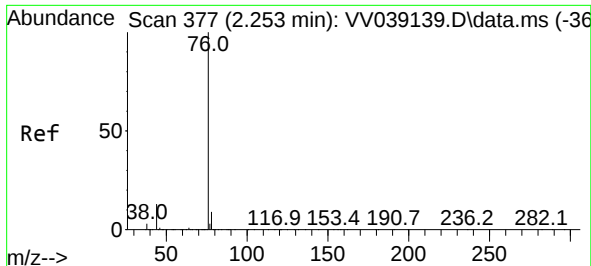
Tgt Ion: 53 Resp: 1194
Ion Ratio Lower Upper
53 100
52 0.0 66.1 99.1#
51 11.5 28.5 42.7#



#16
Acetone
Concen: Below Cal
RT: 2.127 min Scan# 338
Delta R.T. 0.009 min
Lab File: VV039169.D
Acq: 25 Sep 2025 10:31

Tgt Ion: 43 Resp: 1516
Ion Ratio Lower Upper
43 100
58 49.9 25.8 38.6#

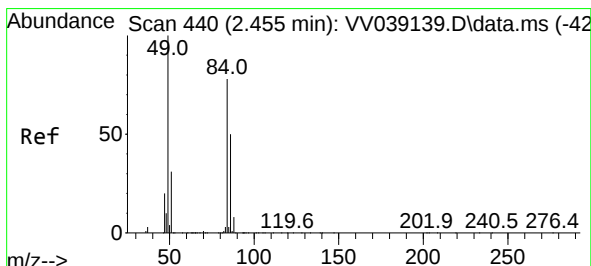
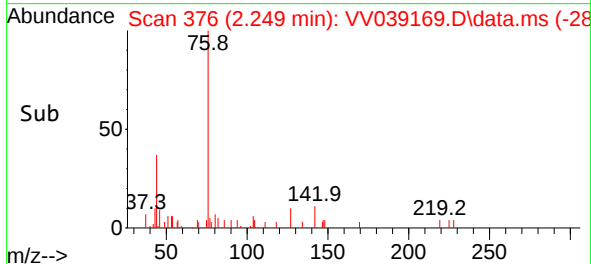
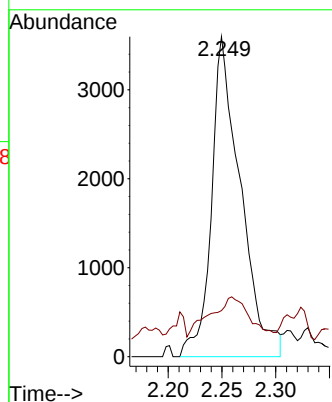
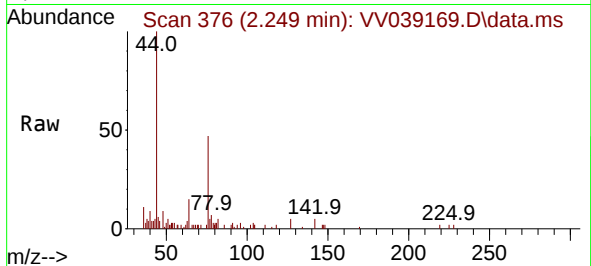




#17
Carbon Disulfide
Concen: 0.273 ug/l
RT: 2.249 min Scan# 31
Delta R.T. -0.003 min
Lab File: VV039169.D
Acq: 25 Sep 2025 10:31

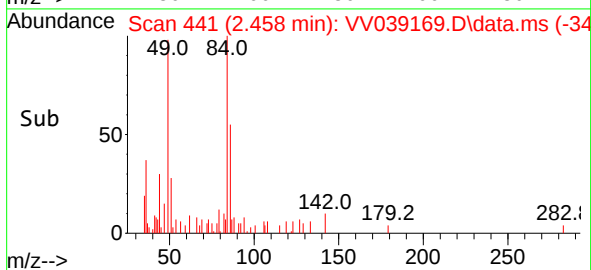
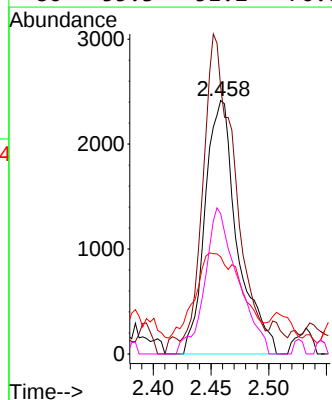
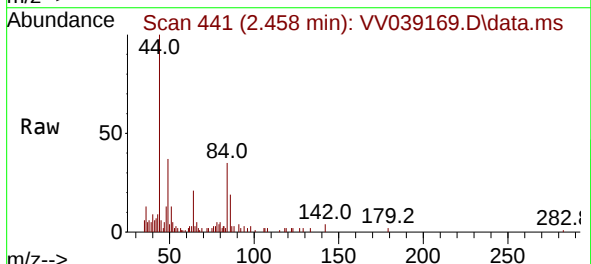
Instrument :
MSVOA_V
ClientSampleId :
VV0925MBL01

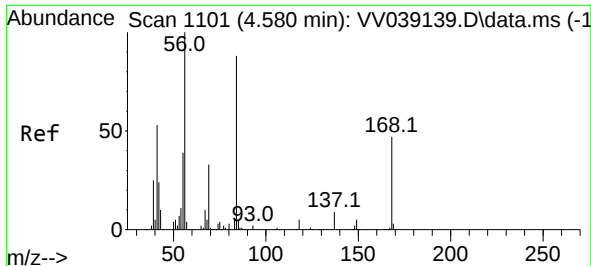
Tgt Ion: 76 Resp: 6757
Ion Ratio Lower Upper
76 100
78 4.9 7.4 11.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039169.D
Acq: 25 Sep 2025 10:31

Tgt Ion: 84 Resp: 4688
Ion Ratio Lower Upper
84 100
49 100.3 102.8 154.2#
51 28.4 31.9 47.9#
86 55.3 51.2 76.8

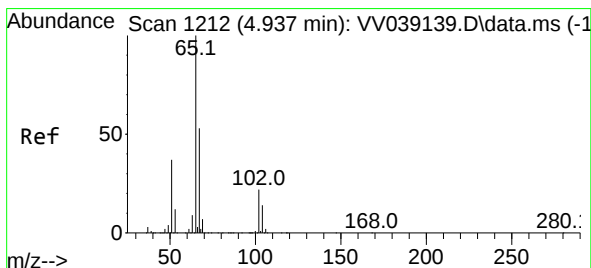
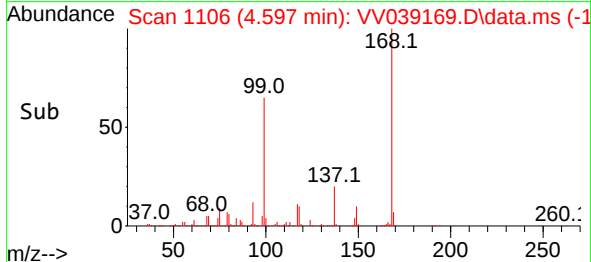
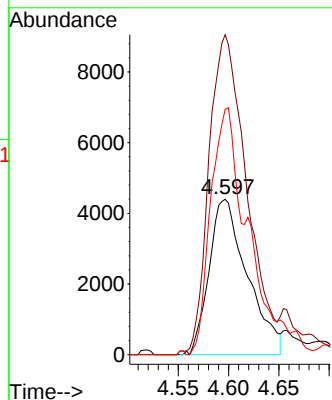
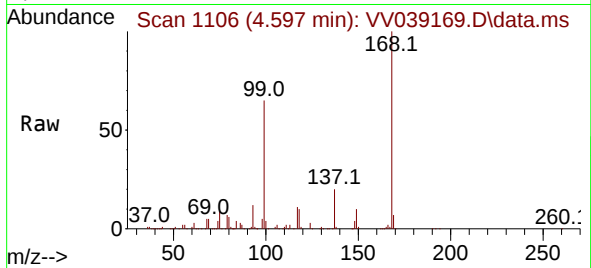




#31
Cyclohexane
Concen: 0.840 ug/l
RT: 4.597 min Scan# 1106
Delta R.T. 0.016 min
Lab File: VV039169.D
Acq: 25 Sep 2025 10:31

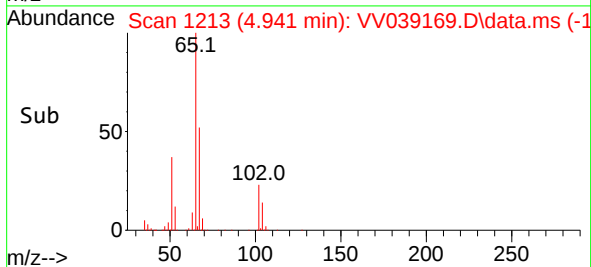
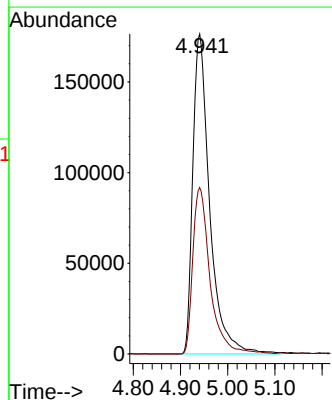
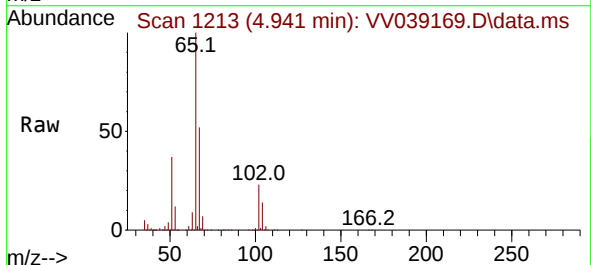
Instrument :
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ClientSampleId :
VV0925MBL01

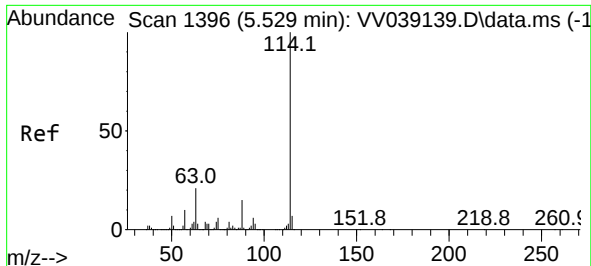
Tgt Ion: 56 Resp: 11633
Ion Ratio Lower Upper
56 100
69 203.6 26.2 39.2#
84 155.4 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 56.382 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039169.D
Acq: 25 Sep 2025 10:31

Tgt Ion: 65 Resp: 437769
Ion Ratio Lower Upper
65 100
67 53.2 0.0 107.0

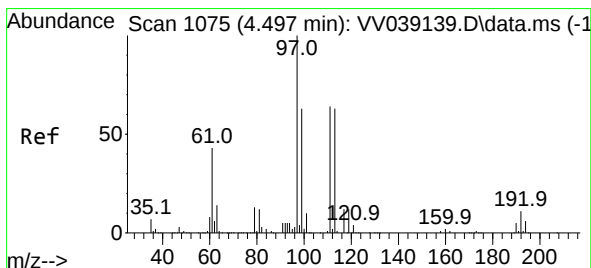
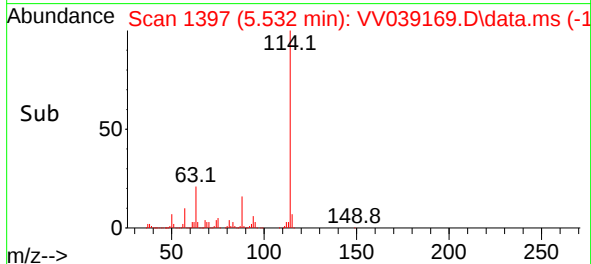
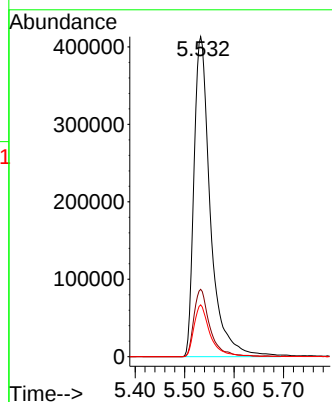
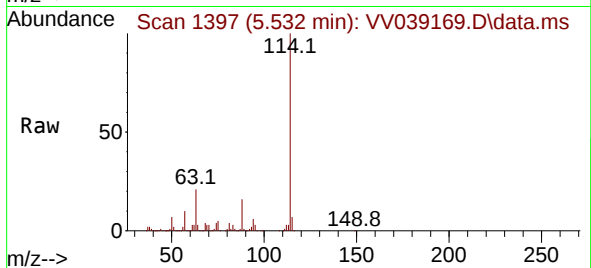




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039169.D
Acq: 25 Sep 2025 10:31

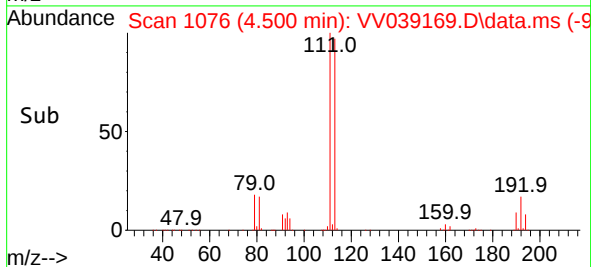
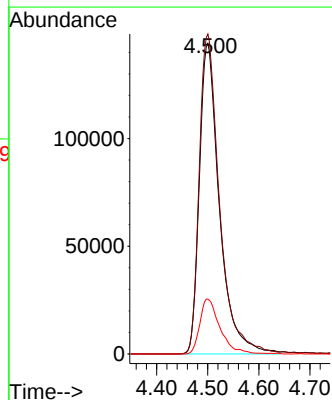
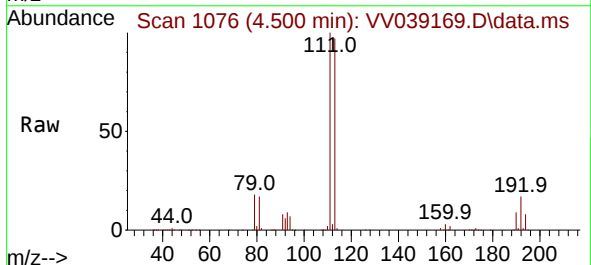
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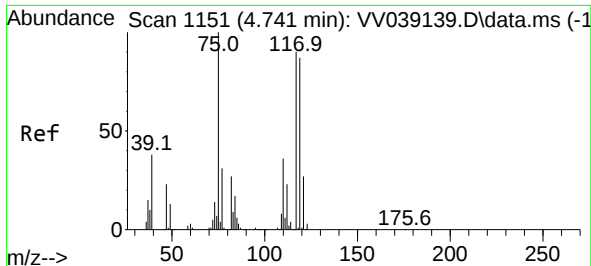
Tgt Ion:114 Resp: 954712
Ion Ratio Lower Upper
114 100
63 21.1 0.0 42.6
88 16.2 0.0 30.8



#35
Dibromofluoromethane
Concen: 51.296 ug/l
RT: 4.500 min Scan# 1076
Delta R.T. 0.003 min
Lab File: VV039169.D
Acq: 25 Sep 2025 10:31

Tgt Ion:113 Resp: 393702
Ion Ratio Lower Upper
113 100
111 104.1 82.4 123.6
192 17.8 13.8 20.8





#36

1,1-Dichloropropene

Concen: 4.061 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. -0.141 min

Lab File: VV039169.D

Acq: 25 Sep 2025 10:31

Instrument :

MSVOA_V

ClientSampleId :

VV0925MBL01

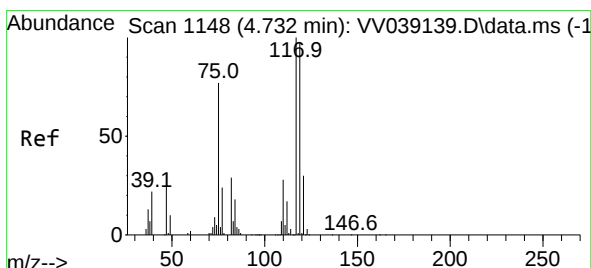
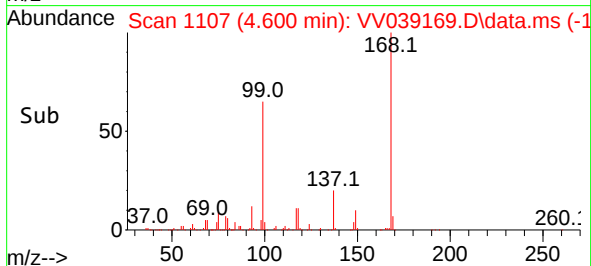
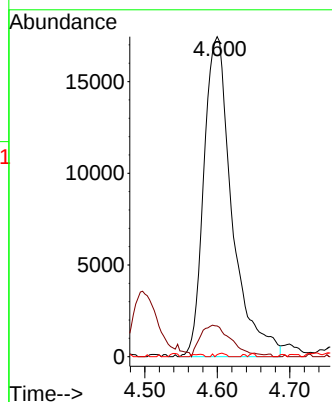
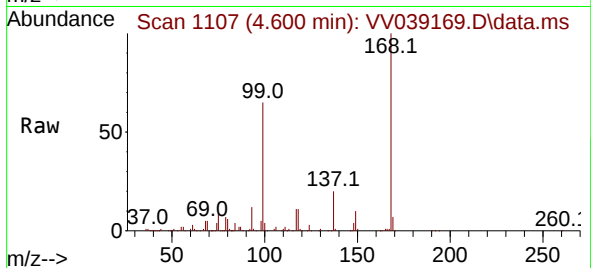
Tgt Ion: 75 Resp: 47126

Ion Ratio Lower Upper

75 100

110 0.0 18.1 54.1#

77 0.3 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 3.917 ug/l

RT: 4.597 min Scan# 1106

Delta R.T. -0.135 min

Lab File: VV039169.D

Acq: 25 Sep 2025 10:31

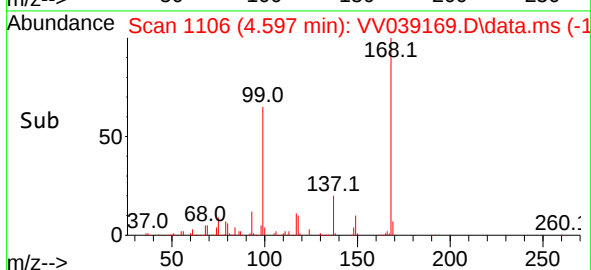
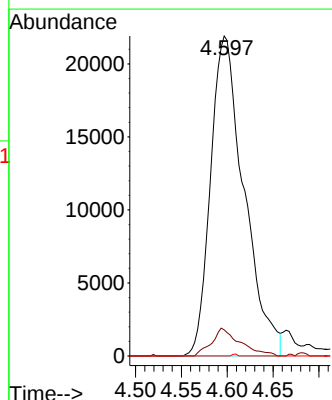
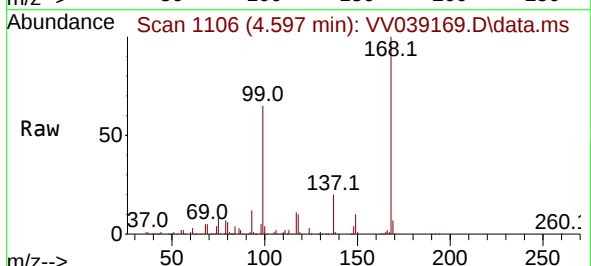
Tgt Ion: 117 Resp: 55557

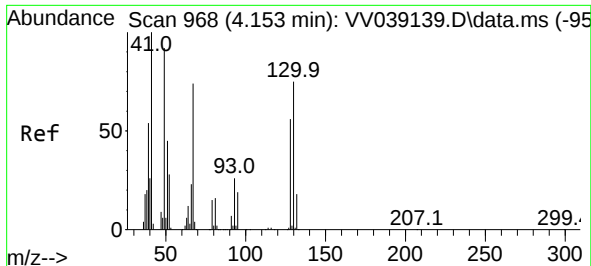
Ion Ratio Lower Upper

117 100

119 8.1 77.2 115.8#

121 0.0 24.2 36.2#

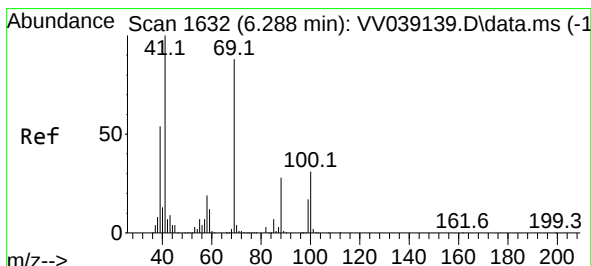
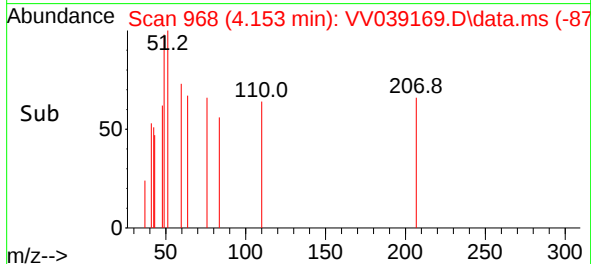
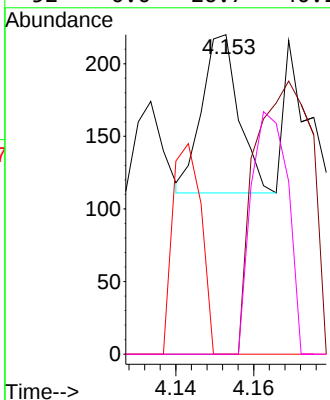
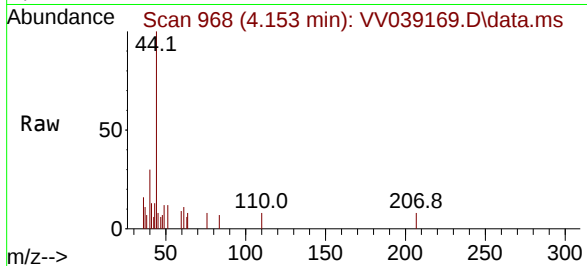




#41
Methacrylonitrile
Concen: 1.921 ug/l
RT: 4.153 min Scan# 90
Delta R.T. -0.000 min
Lab File: VV039169.D
Acq: 25 Sep 2025 10:31

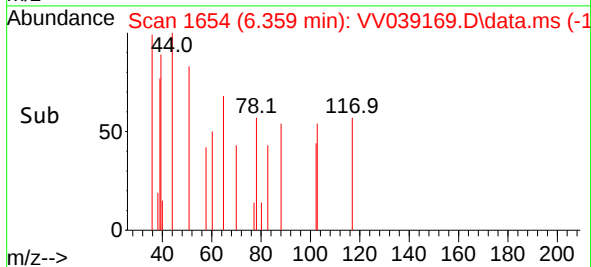
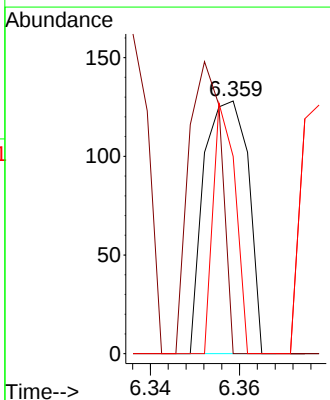
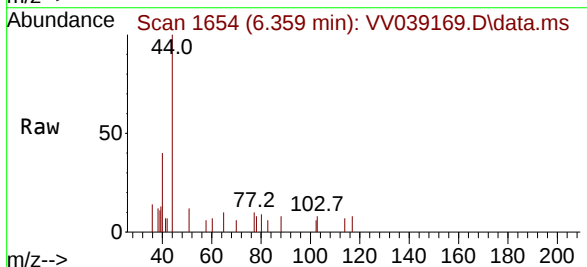
Instrument :
MSVOA_V
ClientSampleId :
VV0925MBL01

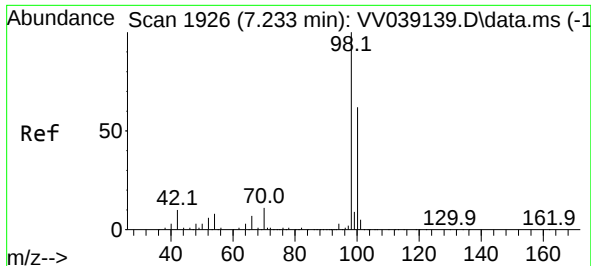
Tgt Ion:	41	Resp:	72
Ion	Ratio	Lower	Upper
41	100		
39	0.0	42.2	63.2#
67	102.8	67.9	101.9#
52	0.0	26.7	40.1#



#49
1,4-Dioxane
Concen: 0.627 ug/l
RT: 6.359 min Scan# 1654
Delta R.T. 0.071 min
Lab File: VV039169.D
Acq: 25 Sep 2025 10:31

Tgt Ion:	88	Resp:	88
Ion	Ratio	Lower	Upper
88	100		
43	85.2	25.1	37.7#
58	50.0	53.6	80.4#

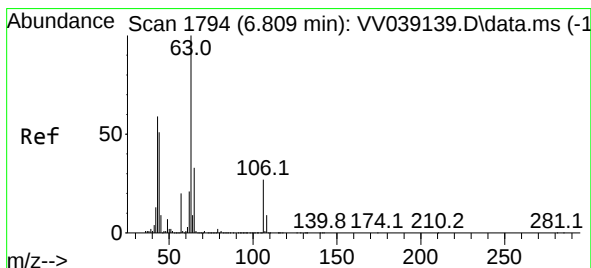
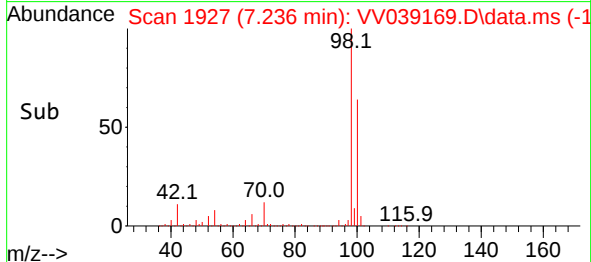
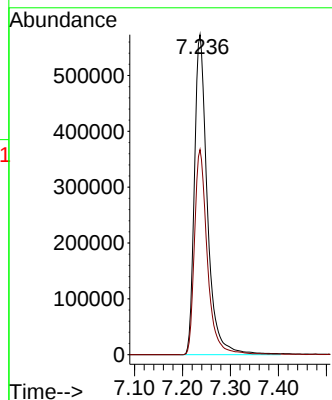
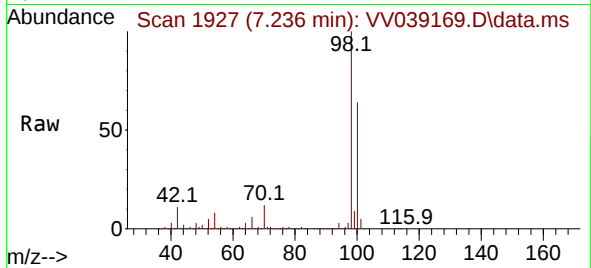




#50
Toluene-d8
Concen: 47.497 ug/l
RT: 7.236 min Scan# 1926
Delta R.T. 0.003 min
Lab File: VV039169.D
Acq: 25 Sep 2025 10:31

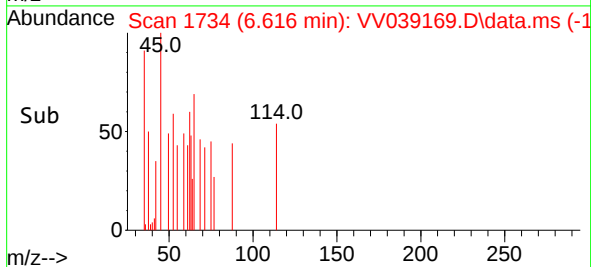
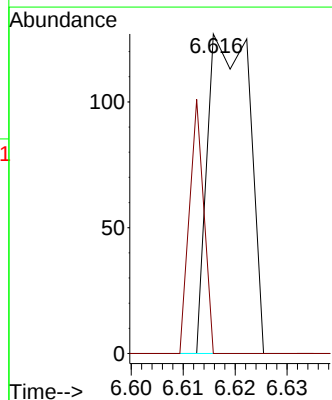
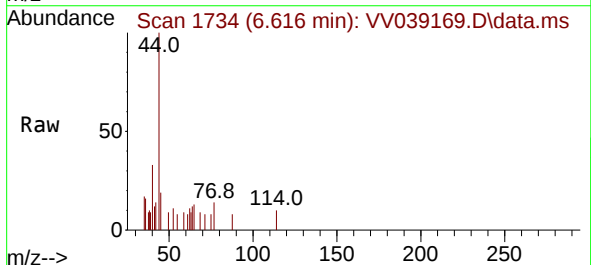
Instrument :
MSVOA_V
ClientSampleId :
VV0925MBL01

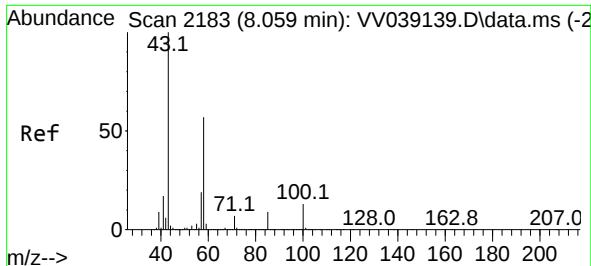
Tgt Ion: 98 Resp: 1070675
Ion Ratio Lower Upper
98 100
100 63.6 52.2 78.2



#58
2-Chloroethyl Vinyl ether
Concen: 9.633 ug/l
RT: 6.616 min Scan# 1734
Delta R.T. -0.193 min
Lab File: VV039169.D
Acq: 25 Sep 2025 10:31

Tgt Ion: 63 Resp: 70
Ion Ratio Lower Upper
63 100
106 27.1 22.1 33.1

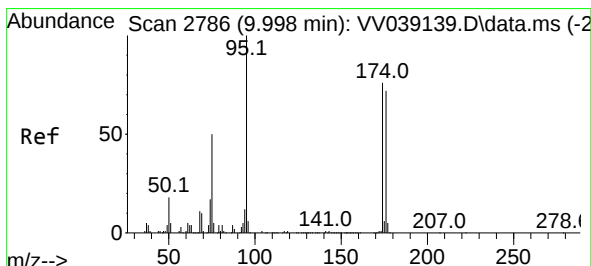
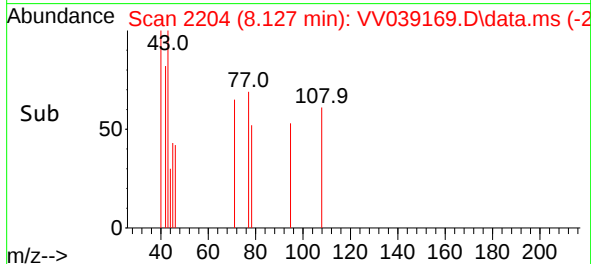
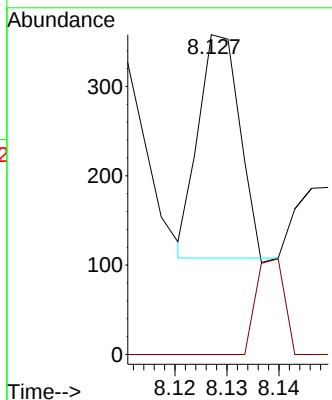
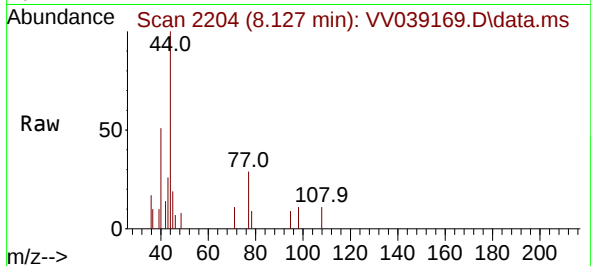




#59
2-Hexanone
Concen: 2.339 ug/l
RT: 8.127 min Scan# 2183
Delta R.T. 0.068 min
Lab File: VV039169.D
Acq: 25 Sep 2025 10:31

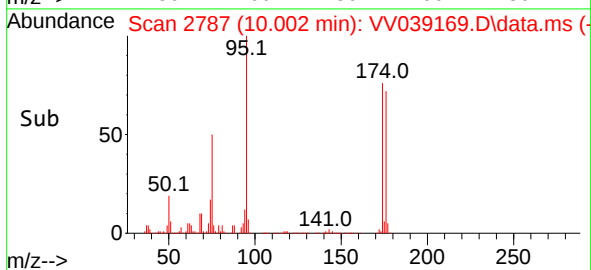
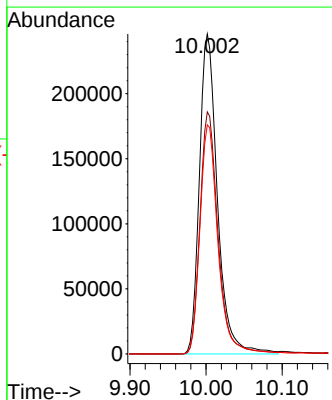
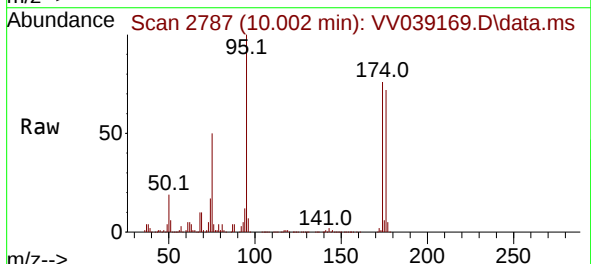
Instrument :
MSVOA_V
ClientSampleId :
VV0925MBL01

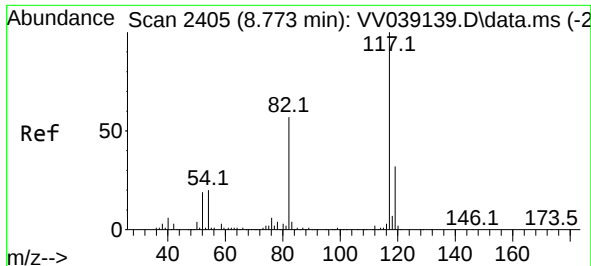
Tgt Ion: 43 Resp: 137
Ion Ratio Lower Upper
43 100
58 29.2 28.3 85.0



#62
4-Bromofluorobenzene
Concen: 43.618 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039169.D
Acq: 25 Sep 2025 10:31

Tgt Ion: 95 Resp: 404772
Ion Ratio Lower Upper
95 100
174 75.5 0.0 150.4
176 71.9 0.0 144.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.776 min Scan# 2405

Delta R.T. 0.003 min

Lab File: VV039169.D

Acq: 25 Sep 2025 10:31

Instrument :

MSVOA_V

ClientSampleId :

VV0925MBL01

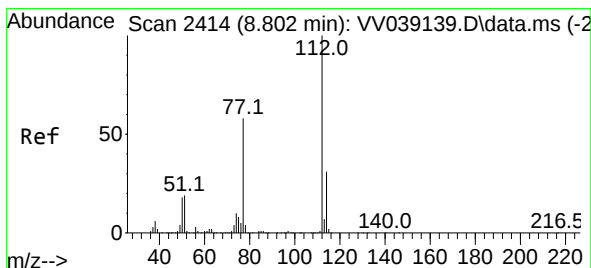
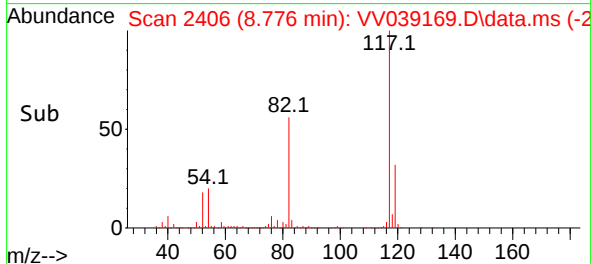
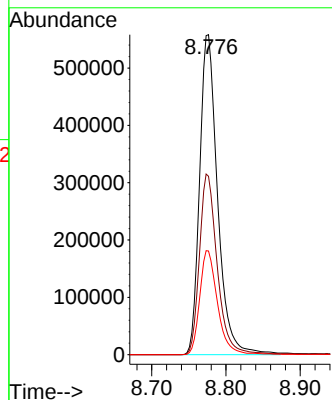
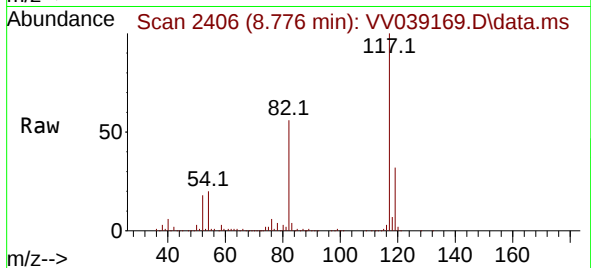
Tgt Ion:117 Resp: 941473

Ion Ratio Lower Upper

117 100

82 55.7 45.4 68.2

119 32.4 25.6 38.4



#65

Chlorobenzene

Concen: 0.283 ug/l

RT: 8.815 min Scan# 2418

Delta R.T. 0.013 min

Lab File: VV039169.D

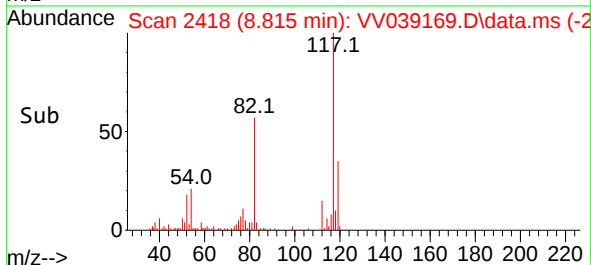
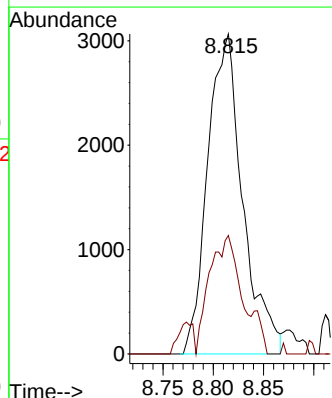
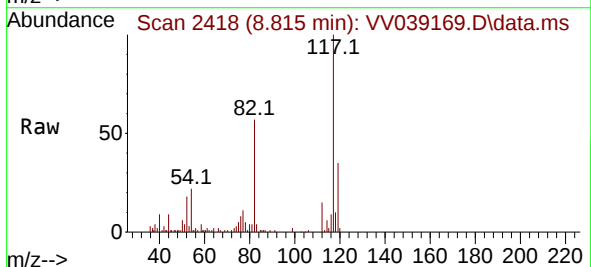
Acq: 25 Sep 2025 10:31

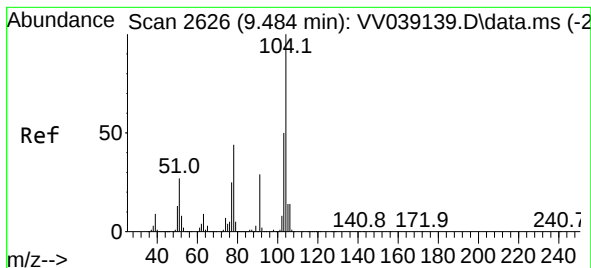
Tgt Ion:112 Resp: 7421

Ion Ratio Lower Upper

112 100

114 37.0 24.6 37.0#





#70

Styrene

Concen: 1.566 ug/l

RT: 9.596 min Scan# 2

Delta R.T. 0.112 min

Lab File: VV039169.D

Acq: 25 Sep 2025 10:31

Instrument :

MSVOA_V

ClientSampleId :

VV0925MBL01

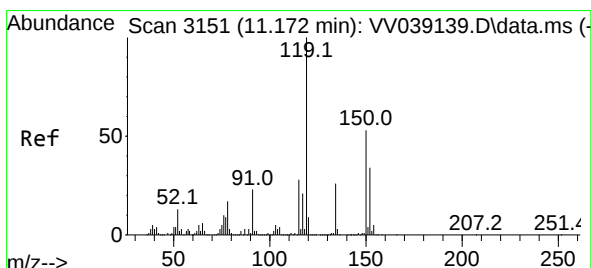
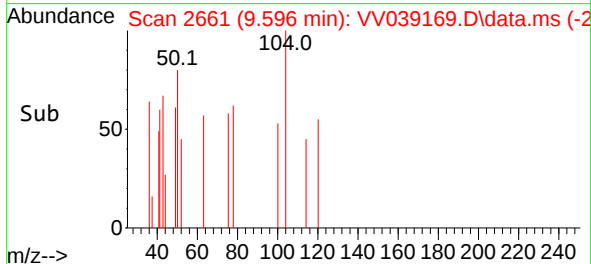
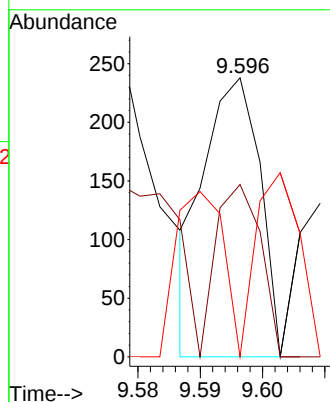
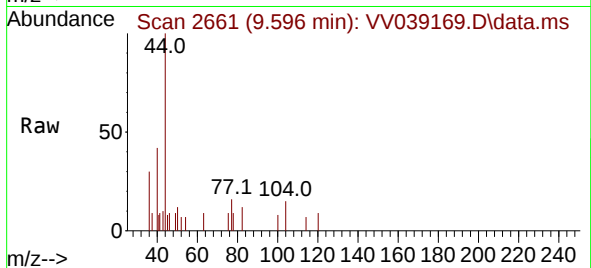
Tgt Ion:104 Resp: 148

Ion Ratio Lower Upper

104 100

78 50.0 39.8 59.6

103 50.7 43.4 65.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.172 min Scan# 3151

Delta R.T. -0.000 min

Lab File: VV039169.D

Acq: 25 Sep 2025 10:31

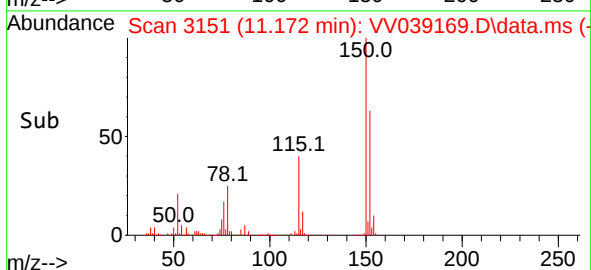
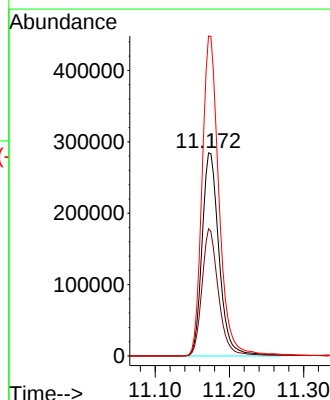
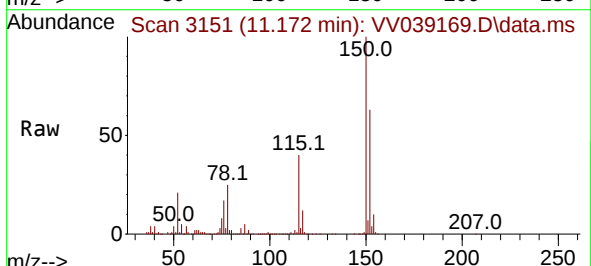
Tgt Ion:152 Resp: 452663

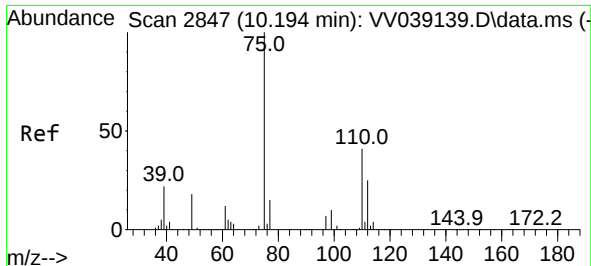
Ion Ratio Lower Upper

152 100

115 61.1 44.8 134.4

150 155.7 0.0 353.8

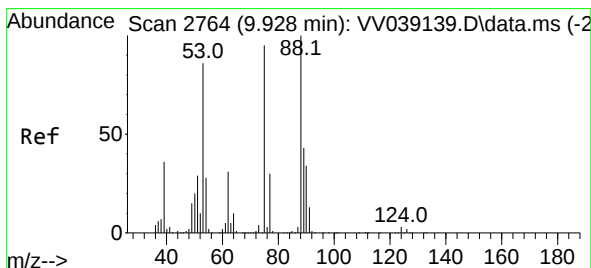
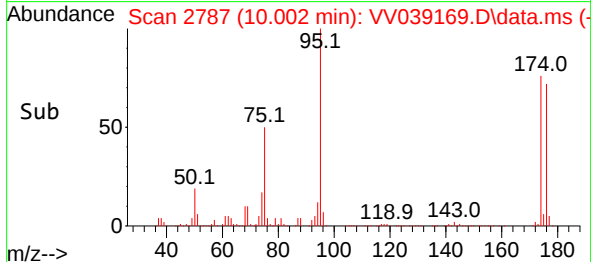
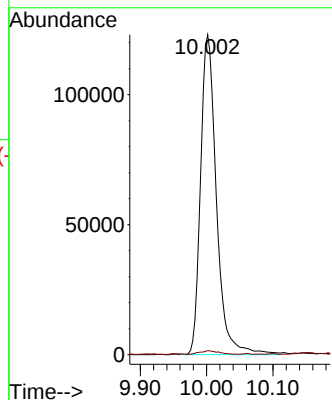
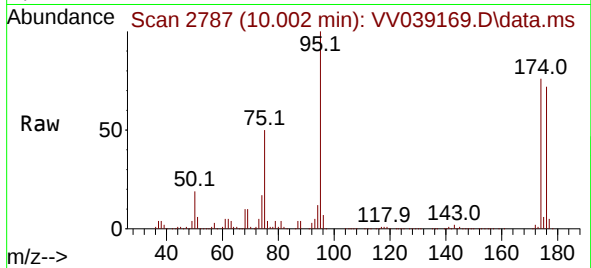




#76
1,2,3-Trichloropropane
Concen: 19.879 ug/l
RT: 10.002 min Scan# 21
Delta R.T. -0.193 min
Lab File: VV039169.D
Acq: 25 Sep 2025 10:31

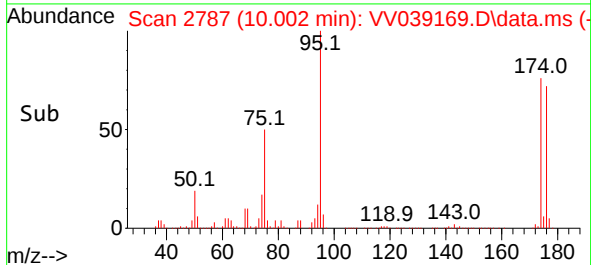
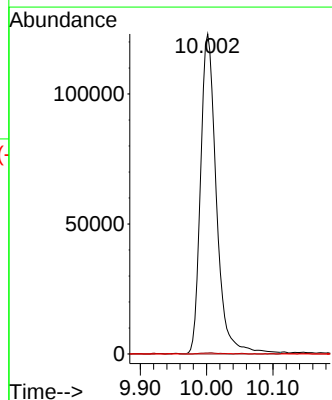
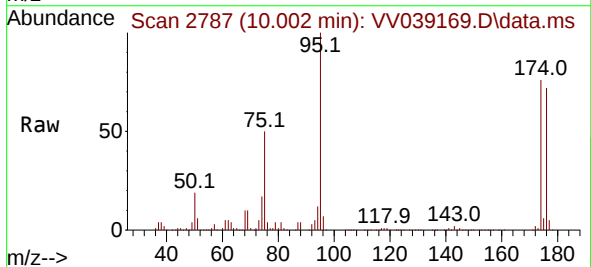
Instrument :
MSVOA_V
ClientSampleId :
VV0925MBL01

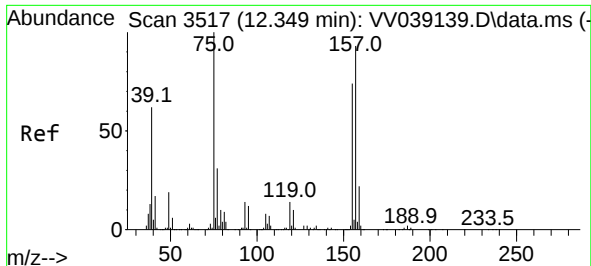
Tgt Ion: 75 Resp: 204882
Ion Ratio Lower Upper
75 100
77 1.4 11.3 33.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 47.724 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.074 min
Lab File: VV039169.D
Acq: 25 Sep 2025 10:31

Tgt Ion: 75 Resp: 204882
Ion Ratio Lower Upper
75 100
53 0.4 72.5 108.7#
89 0.0 37.2 55.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 12.345 min Scan# 3517

Delta R.T. -0.004 min

Lab File: VV039169.D

Acq: 25 Sep 2025 10:31

Instrument :

MSVOA_V

ClientSampleId :

VV0925MBL01

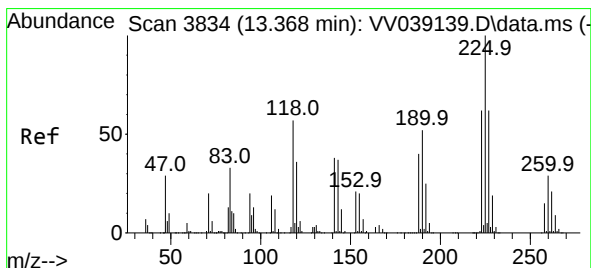
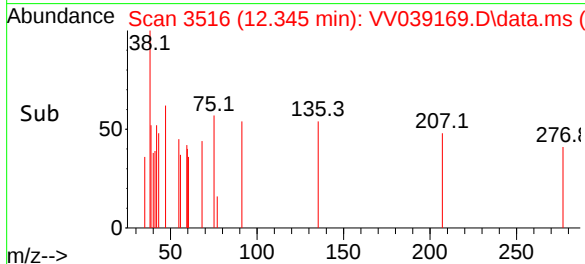
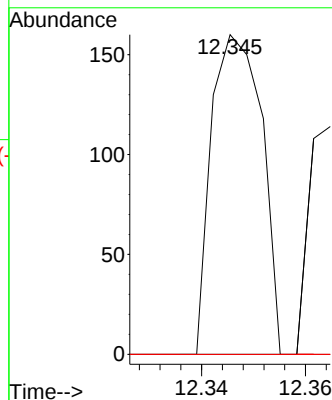
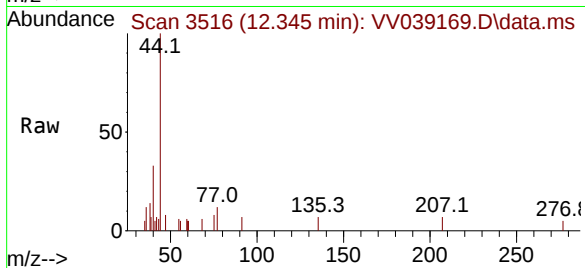
Tgt Ion: 75 Resp: 108

Ion Ratio Lower Upper

75 100

155 0.0 38.6 115.8#

157 0.0 49.5 148.3#



#94

Hexachlorobutadiene

Concen: 0.204 ug/l

RT: 13.368 min Scan# 3834

Delta R.T. -0.000 min

Lab File: VV039169.D

Acq: 25 Sep 2025 10:31

Tgt Ion: 225 Resp: 980

Ion Ratio Lower Upper

225 100

223 46.9 31.6 94.7

227 21.1 31.8 95.4#

