

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
 Data File : VV039255.D
 Acq On : 03 Oct 2025 17:19
 Operator : SY/MD
 Sample : Q3254-07
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MW-4

Quant Time: Oct 04 01:14:14 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)

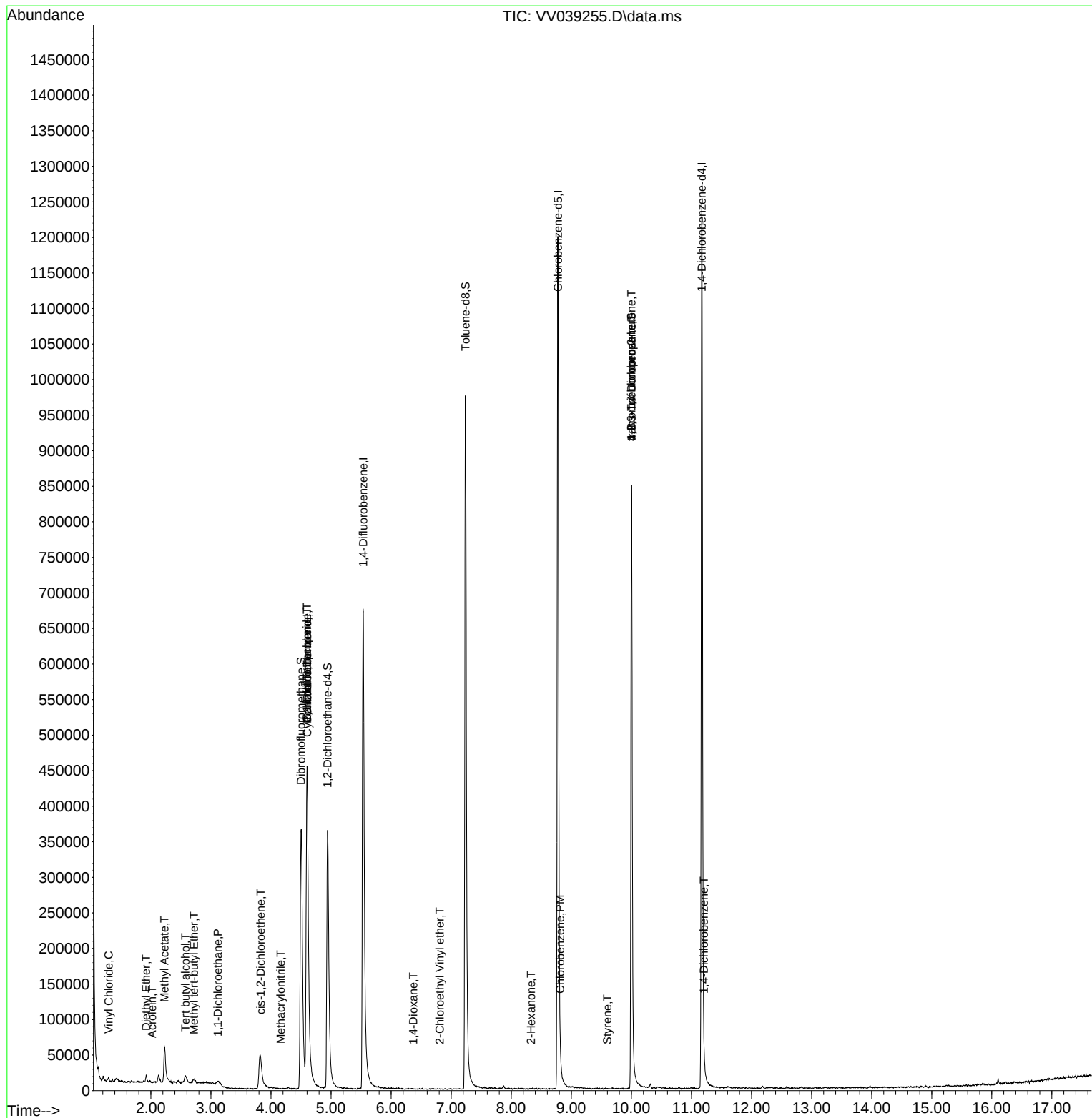
Internal Standards						
1) Pentafluorobenzene	4.603	168	392891	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	674176	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	694020	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	336486	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	326864	57.483	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 114.960%	
35) Dibromofluoromethane	4.503	113	311029	57.387	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 114.780%	
50) Toluene-d8	7.240	98	725743	45.592	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 91.180%	
62) 4-Bromofluorobenzene	10.002	95	295807	45.140	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 90.280%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.298	62	1952	0.273	ug/l #	75
6) Chloroethane	1.561	64	764	Below Cal	#	44
8) Diethyl Ether	1.921	74	3639	0.947	ug/l	94
11) Tert butyl alcohol	2.577	59	8573	7.133	ug/l	99
13) Acrolein	2.021	56	192	0.921	ug/l #	1
16) Acetone	2.127	43	12551	Below Cal		91
18) Methyl Acetate	2.227	43	14311	1.699	ug/l #	52
19) Methyl tert-butyl Ether	2.719	73	4600	0.244	ug/l #	87
20) Methylene Chloride	2.458	84	1379	Below Cal	#	69
24) 1,1-Dichloroethane	3.118	63	2641	0.213	ug/l #	83
27) cis-1,2-Dichloroethene	3.831	96	1649	0.237	ug/l #	8
31) Cyclohexane	4.606	56	7727	0.762	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	32697	3.990	ug/l #	49
38) Carbon Tetrachloride	4.600	117	39799	3.974	ug/l #	18
41) Methacrylonitrile	4.166	41	46	1.920	ug/l #	1
49) 1,4-Dioxane	6.368	88	50	0.504	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.809	63	41	9.631	ug/l #	47
59) 2-Hexanone	8.330	43	169	2.349	ug/l	96
65) Chlorobenzene	8.815	112	13694	0.708	ug/l #	86
70) Styrene	9.600	104	42	1.563	ug/l #	26
76) 1,2,3-Trichloropropane	10.002	75	143425	18.721	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.002	75	143425	44.943	ug/l #	13
88) 1,4-Dichlorobenzene	11.207	146	4447	0.316	ug/l #	63
92) 1,2-Dibromo-3-Chloropr...	12.481	75	20	Below Cal	#	5

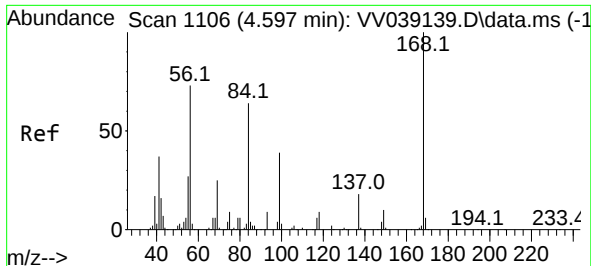
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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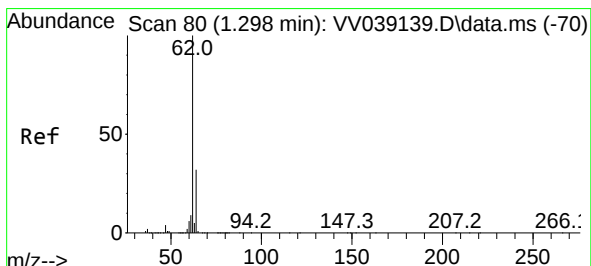
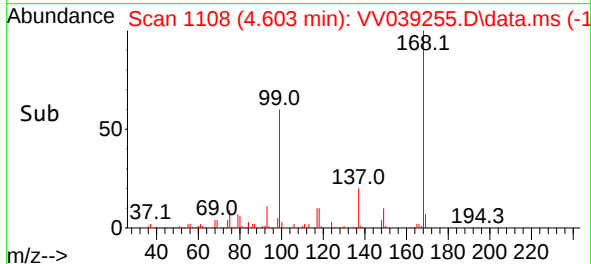
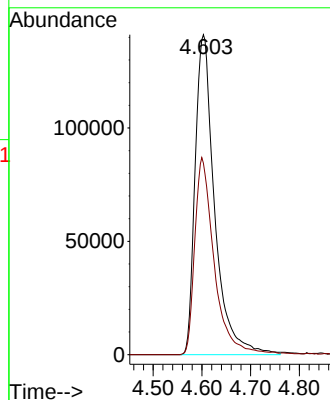
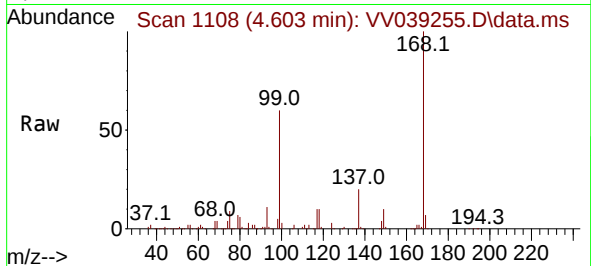




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.006 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

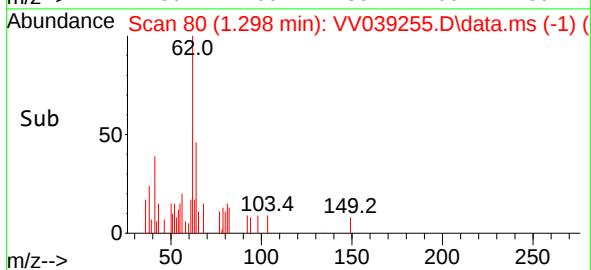
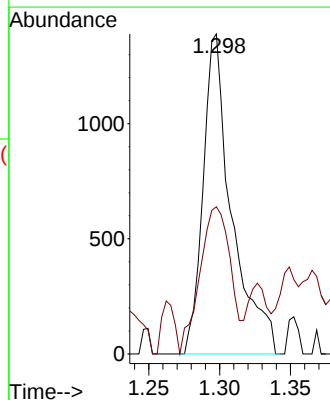
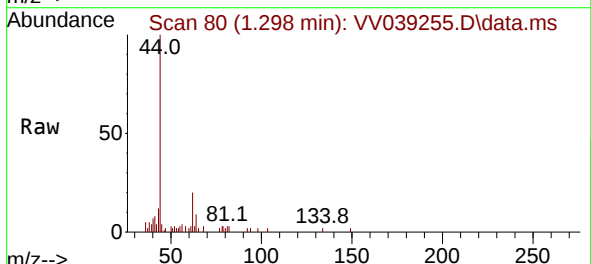
Instrument :
MSVOA_V
ClientSampleId :
MW-4

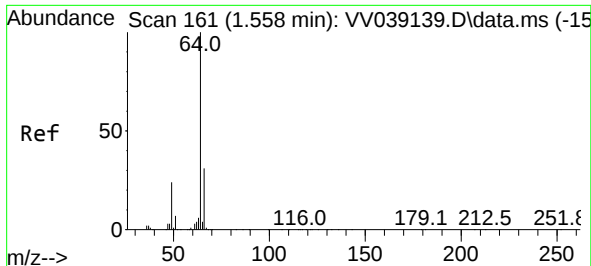
Tgt Ion:168 Resp: 392891
Ion Ratio Lower Upper
168 100
99 59.9 49.6 74.4



#4
Vinyl Chloride
Concen: 0.273 ug/l
RT: 1.298 min Scan# 80
Delta R.T. 0.000 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

Tgt Ion: 62 Resp: 1952
Ion Ratio Lower Upper
62 100
64 46.0 25.6 38.4#

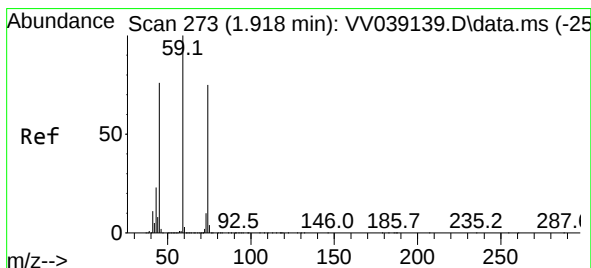
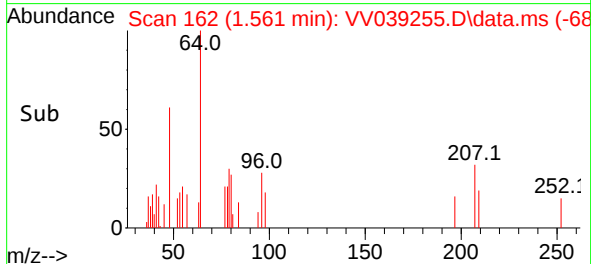
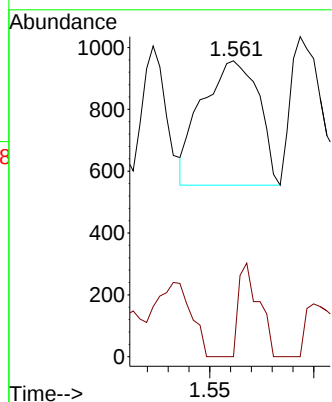
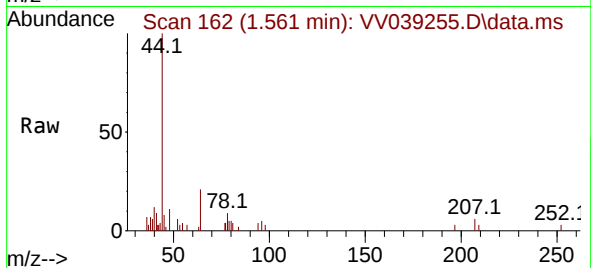




#6
Chloroethane
Concen: Below Cal
RT: 1.561 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

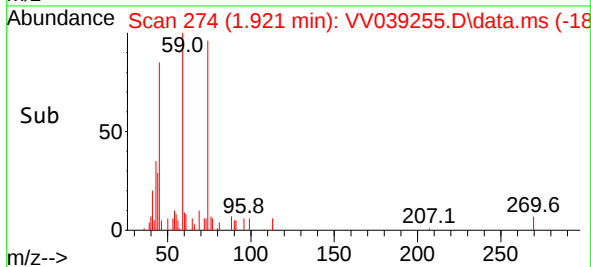
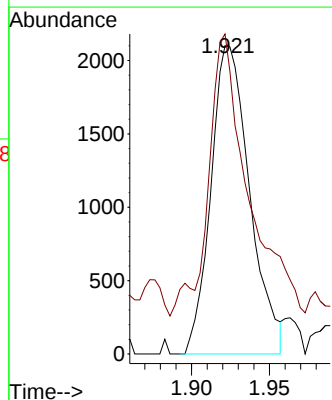
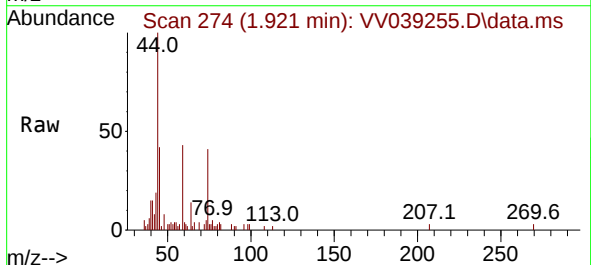
Instrument :
MSVOA_V
ClientSampleId :
MW-4

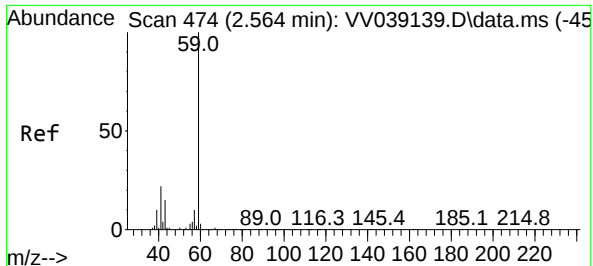
Tgt Ion: 64 Resp: 764
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#



#8
Diethyl Ether
Concen: 0.947 ug/l
RT: 1.921 min Scan# 274
Delta R.T. 0.003 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

Tgt Ion: 74 Resp: 3639
Ion Ratio Lower Upper
74 100
45 93.2 49.6 148.8

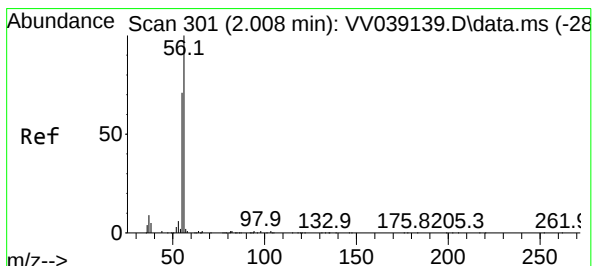
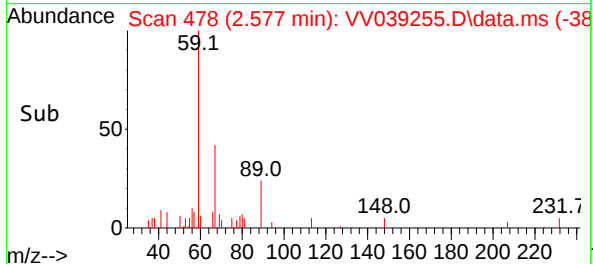
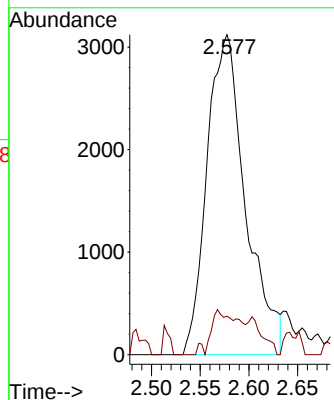
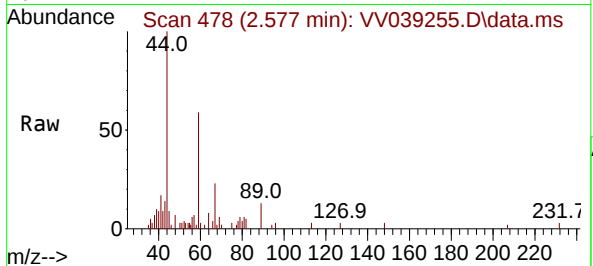




#11
Tert butyl alcohol
Concen: 7.133 ug/l
RT: 2.577 min Scan# 41
Delta R.T. 0.013 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

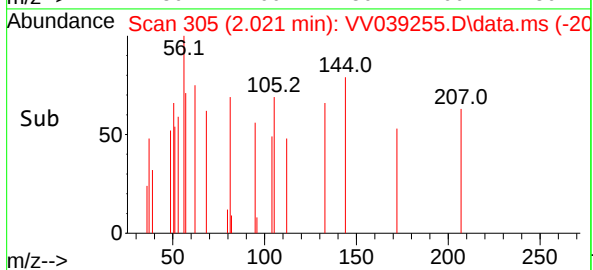
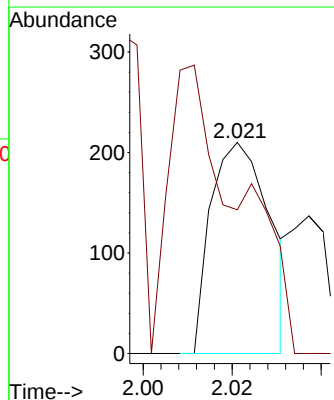
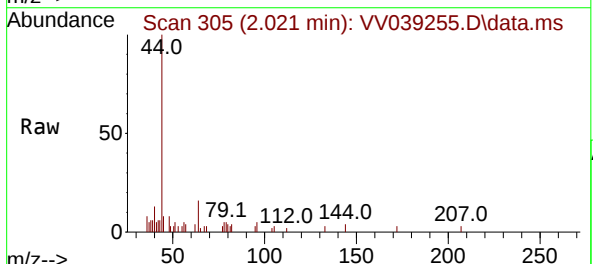
Instrument :
MSVOA_V
ClientSampleId :
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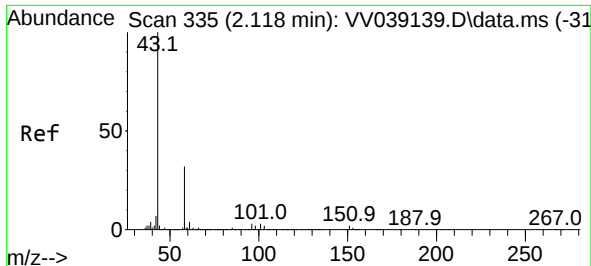
Tgt Ion: 59 Resp: 8573
Ion Ratio Lower Upper
59 100
57 10.1 7.8 11.8



#13
Acrolein
Concen: 0.921 ug/l
RT: 2.021 min Scan# 305
Delta R.T. 0.013 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

Tgt Ion: 56 Resp: 192
Ion Ratio Lower Upper
56 100
55 164.1 56.2 84.4#

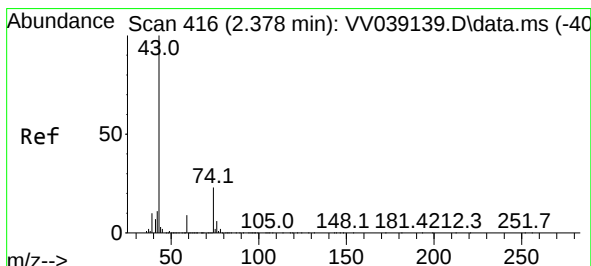
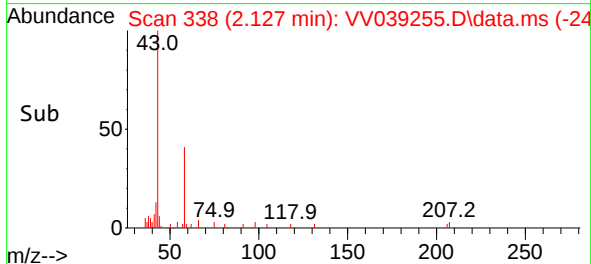
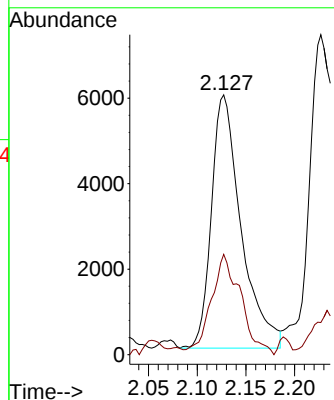
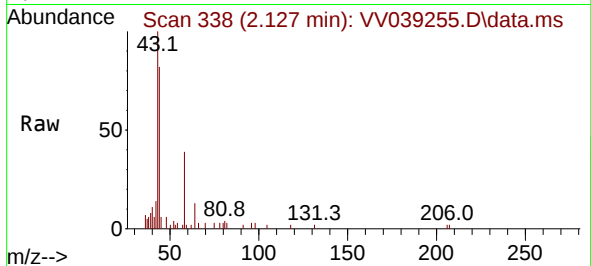




#16
Acetone
Concen: Below Cal
RT: 2.127 min Scan# 31
Delta R.T. 0.009 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

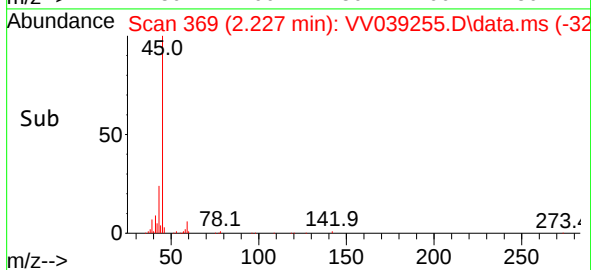
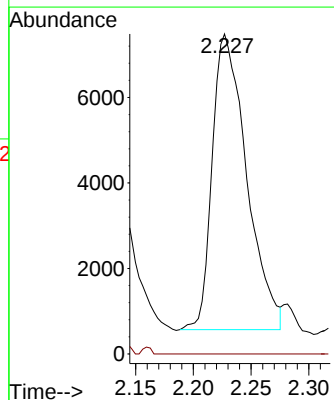
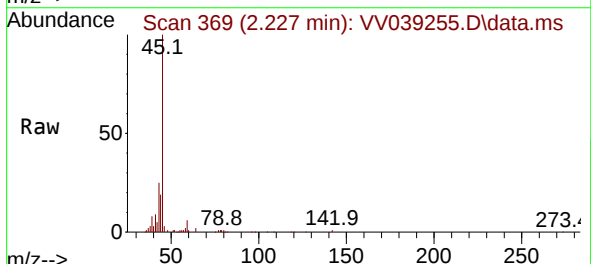
Instrument :
MSVOA_V
ClientSampleId :
MW-4

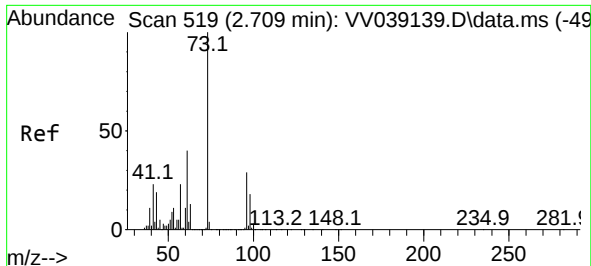
Tgt Ion: 43 Resp: 12551
Ion Ratio Lower Upper
43 100
58 37.2 25.8 38.6



#18
Methyl Acetate
Concen: 1.699 ug/l
RT: 2.227 min Scan# 369
Delta R.T. -0.151 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

Tgt Ion: 43 Resp: 14311
Ion Ratio Lower Upper
43 100
74 0.0 18.6 27.8#

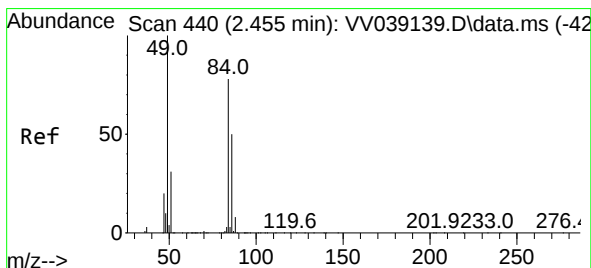
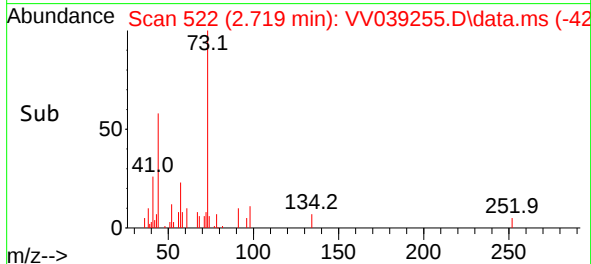
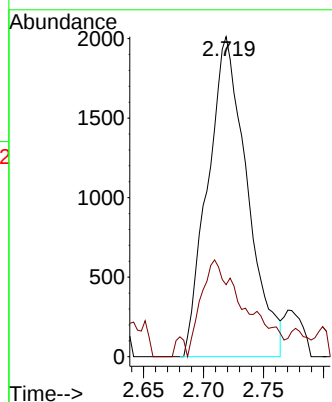
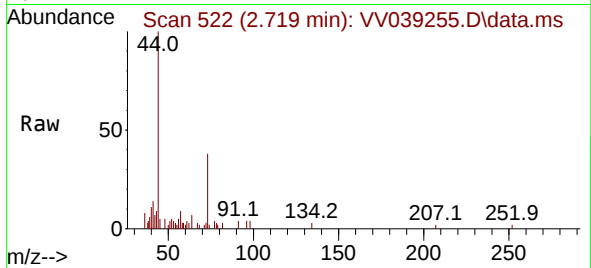




#19
Methyl tert-butyl Ether
Concen: 0.244 ug/l
RT: 2.719 min Scan# 519
Delta R.T. 0.010 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

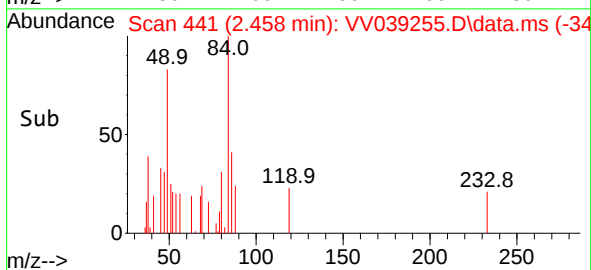
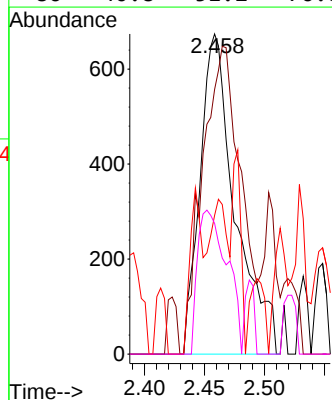
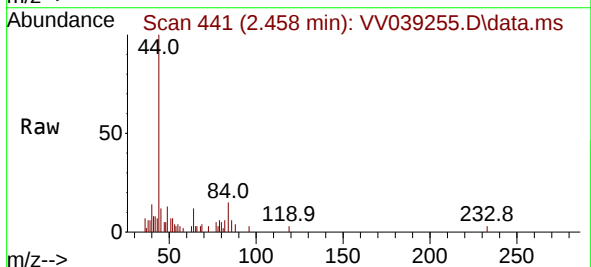
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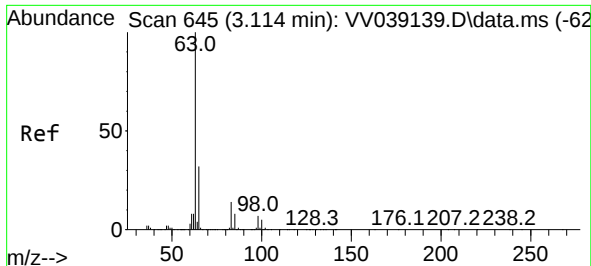
Tgt Ion: 73 Resp: 4600
Ion Ratio Lower Upper
73 100
57 16.3 18.2 27.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

Tgt Ion: 84 Resp: 1379
Ion Ratio Lower Upper
84 100
49 82.6 102.8 154.2#
51 43.3 31.9 47.9
86 40.8 51.2 76.8#

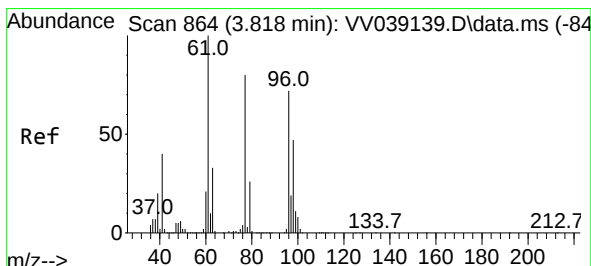
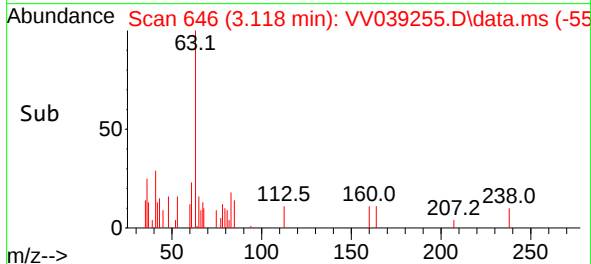
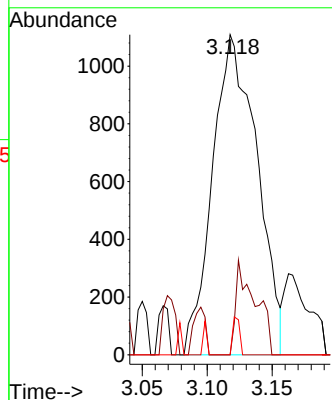
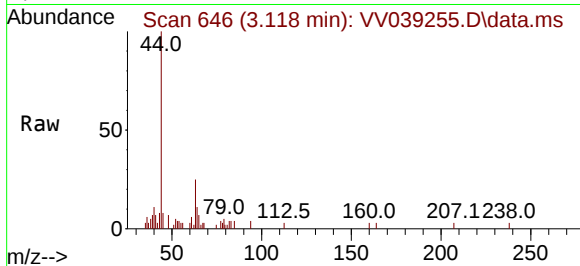




#24
 1,1-Dichloroethane
 Concen: 0.213 ug/l
 RT: 3.118 min Scan# 645
 Delta R.T. 0.003 min
 Lab File: VV039255.D
 Acq: 03 Oct 2025 17:19

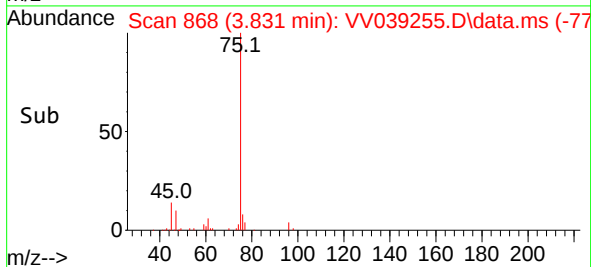
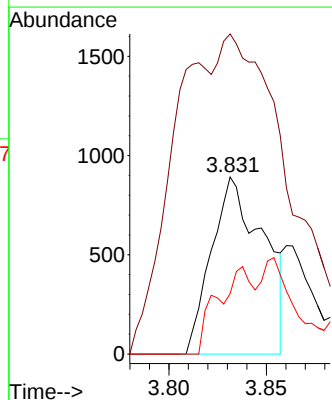
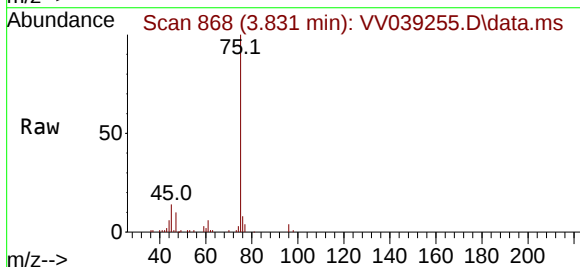
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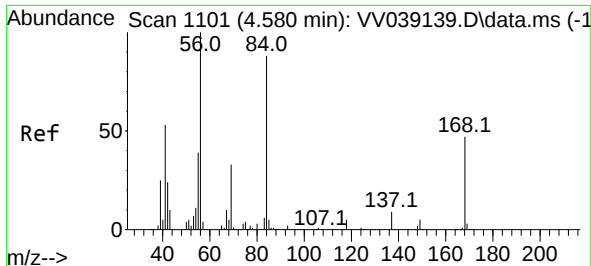
Tgt Ion: 63 Resp: 2641
 Ion Ratio Lower Upper
 63 100
 98 0.0 3.4 10.2#
 100 0.0 2.2 6.6#



#27
 cis-1,2-Dichloroethene
 Concen: 0.237 ug/l
 RT: 3.831 min Scan# 868
 Delta R.T. 0.013 min
 Lab File: VV039255.D
 Acq: 03 Oct 2025 17:19

Tgt Ion: 96 Resp: 1649
 Ion Ratio Lower Upper
 96 100
 61 0.0 0.0 286.4
 98 34.0 0.0 126.6

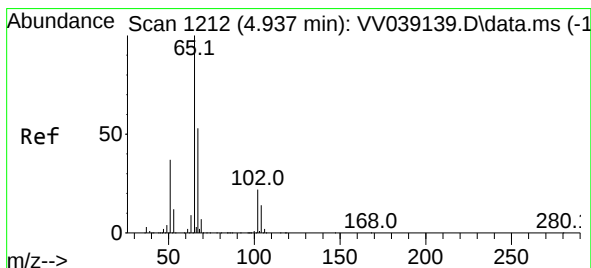
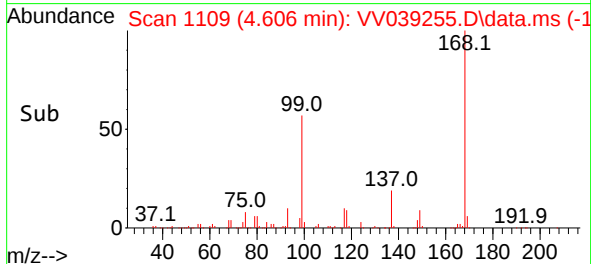
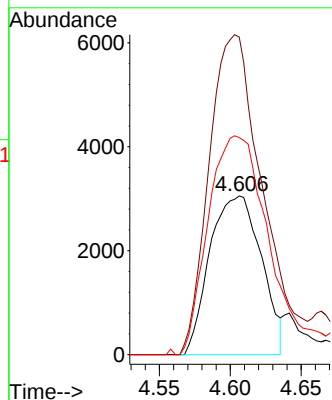
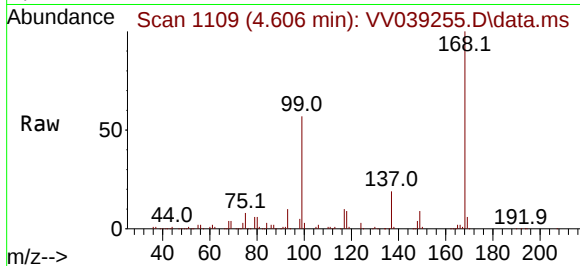




#31
Cyclohexane
Concen: 0.762 ug/l
RT: 4.606 min Scan# 1109
Delta R.T. 0.026 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

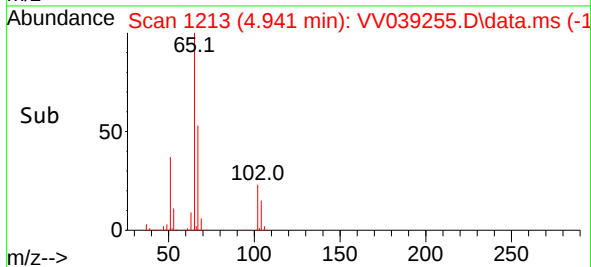
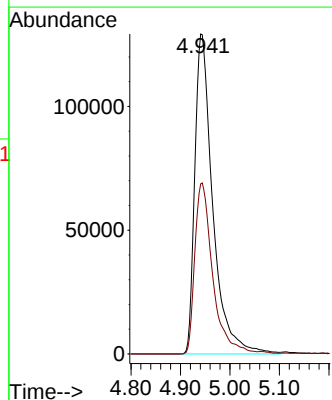
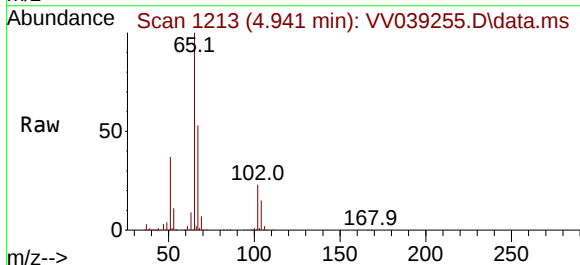
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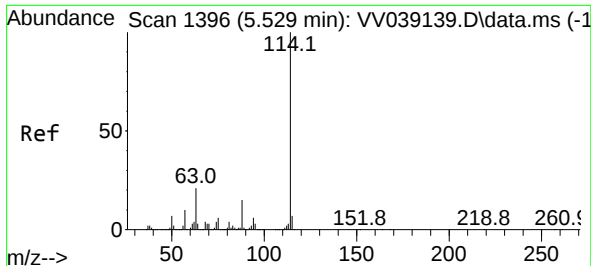
Tgt Ion: 56 Resp: 7727
Ion Ratio Lower Upper
56 100
69 200.1 26.2 39.2#
84 136.8 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 57.483 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

Tgt Ion: 65 Resp: 326864
Ion Ratio Lower Upper
65 100
67 53.3 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039255.D

Acq: 03 Oct 2025 17:19

Instrument :

MSVOA_V

ClientSampleId :

MW-4

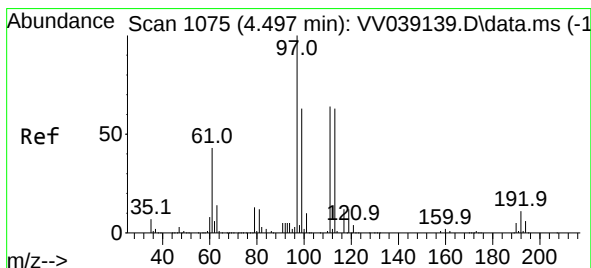
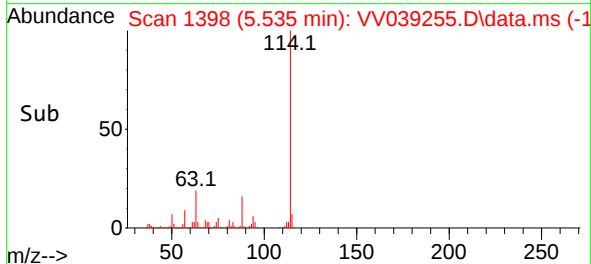
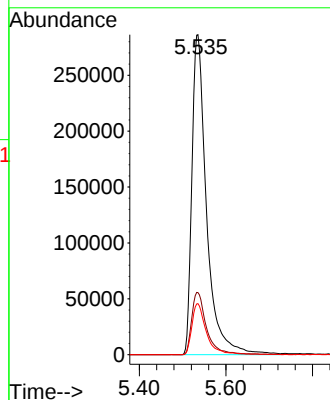
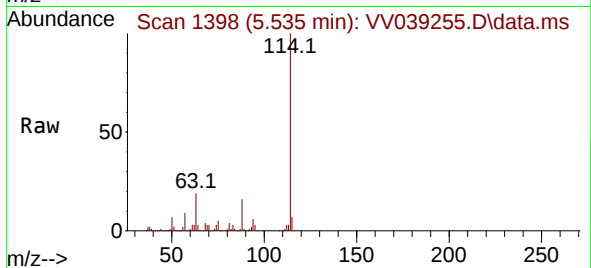
Tgt Ion:114 Resp: 674176

Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.6

88 16.0 0.0 30.8



#35

Dibromofluoromethane

Concen: 57.387 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039255.D

Acq: 03 Oct 2025 17:19

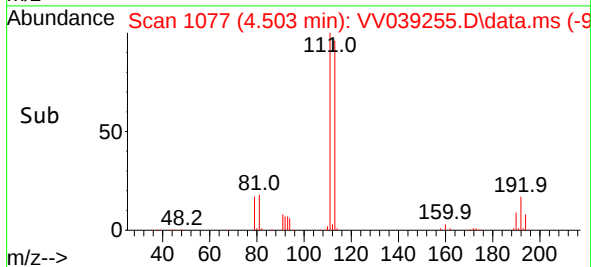
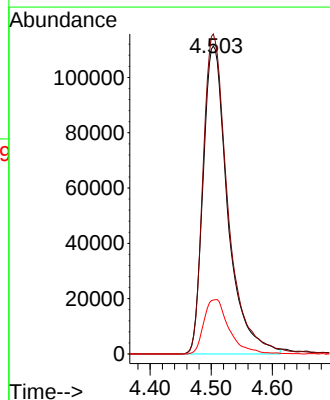
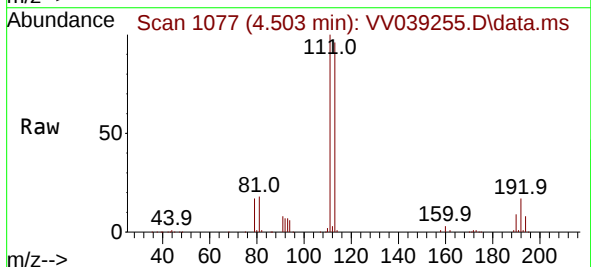
Tgt Ion:113 Resp: 311029

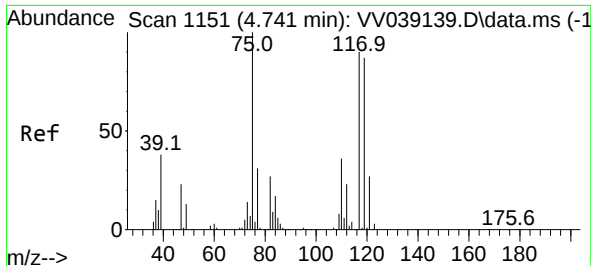
Ion Ratio Lower Upper

113 100

111 104.6 82.4 123.6

192 18.0 13.8 20.8





#36

1,1-Dichloropropene

Concen: 3.990 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. -0.141 min

Lab File: VV039255.D

Acq: 03 Oct 2025 17:19

Instrument :

MSVOA_V

ClientSampleId :

MW-4

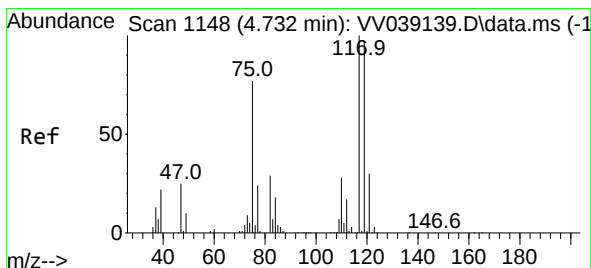
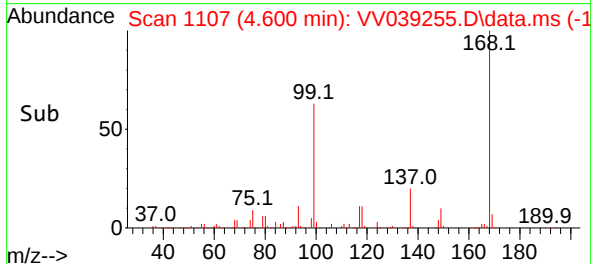
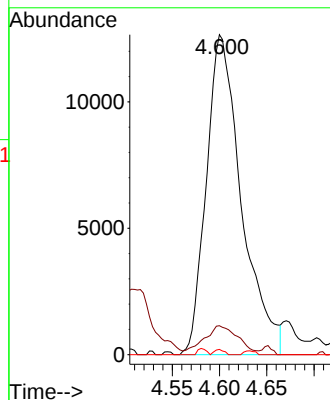
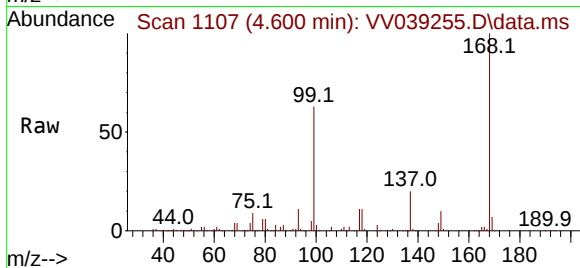
Tgt Ion: 75 Resp: 32697

Ion Ratio Lower Upper

75 100

110 8.9 18.1 54.1#

77 0.4 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 3.974 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. -0.132 min

Lab File: VV039255.D

Acq: 03 Oct 2025 17:19

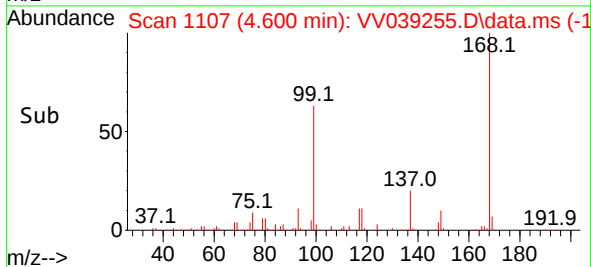
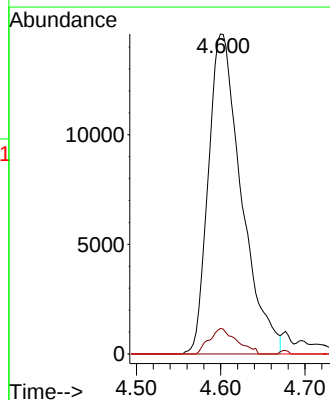
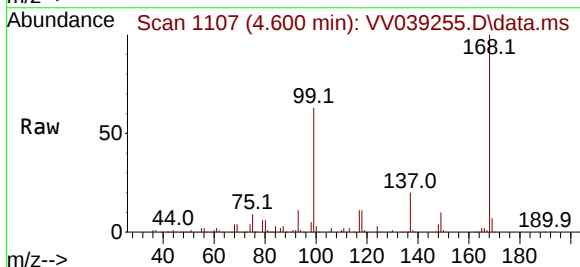
Tgt Ion: 117 Resp: 39799

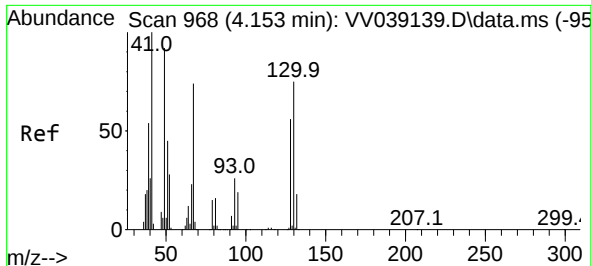
Ion Ratio Lower Upper

117 100

119 8.0 77.2 115.8#

121 0.0 24.2 36.2#

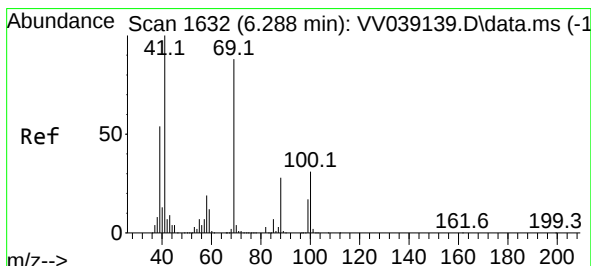
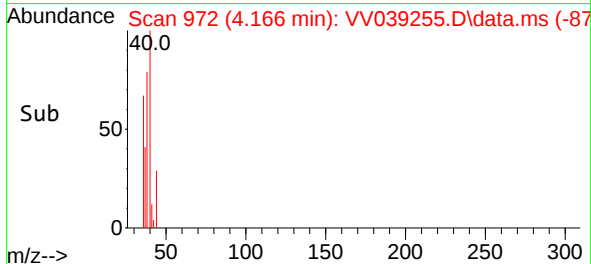
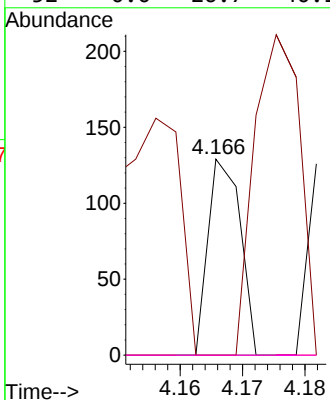
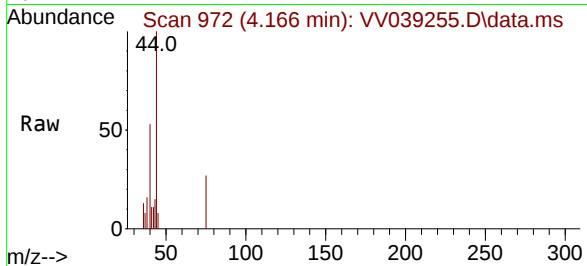




#41
Methacrylonitrile
Concen: 1.920 ug/l
RT: 4.166 min Scan# 91
Delta R.T. 0.013 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

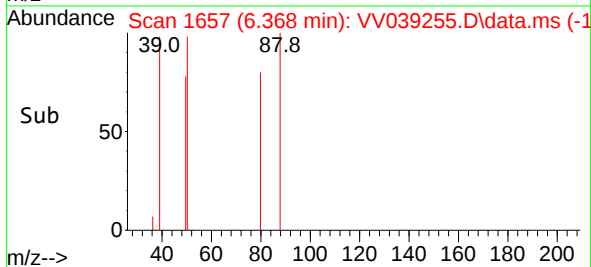
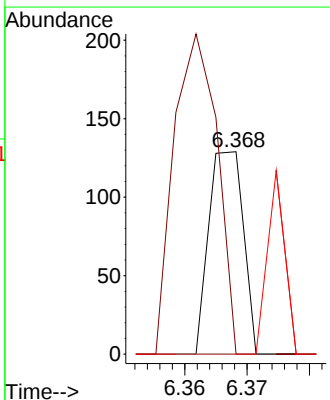
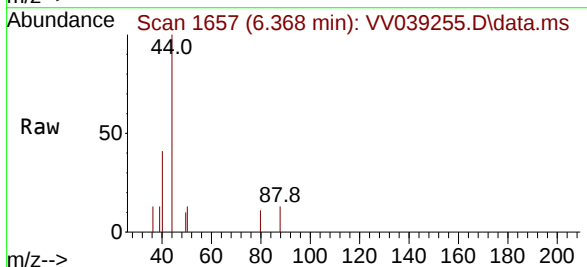
Instrument :
MSVOA_V
ClientSampleId :
MW-4

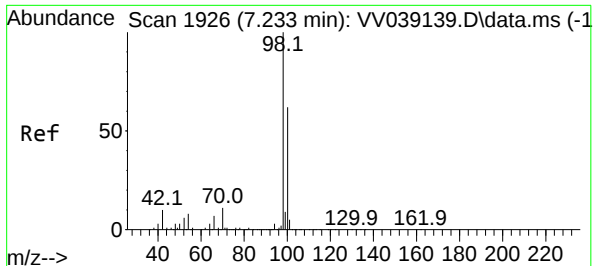
Tgt Ion:	41	Resp:	46
Ion	Ratio	Lower	Upper
41	100		
39	284.8	42.2	63.2#
67	0.0	67.9	101.9#
52	0.0	26.7	40.1#



#49
1,4-Dioxane
Concen: 0.504 ug/l
RT: 6.368 min Scan# 1657
Delta R.T. 0.080 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

Tgt Ion:	88	Resp:	50
Ion	Ratio	Lower	Upper
88	100		
43	196.0	25.1	37.7#
58	46.0	53.6	80.4#





#50

Toluene-d8

Concen: 45.592 ug/l

RT: 7.240 min Scan# 1926

Delta R.T. 0.006 min

Lab File: VV039255.D

Acq: 03 Oct 2025 17:19

Instrument :

MSVOA_V

ClientSampleId :

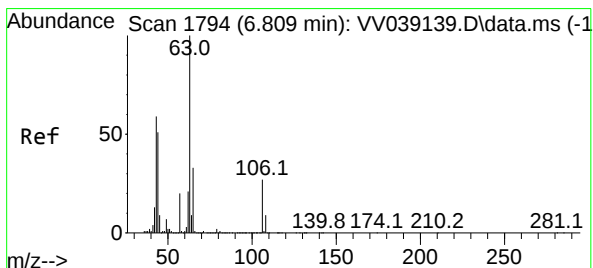
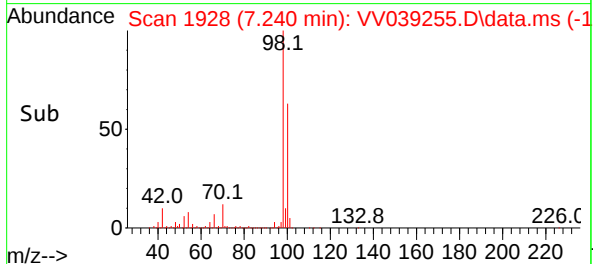
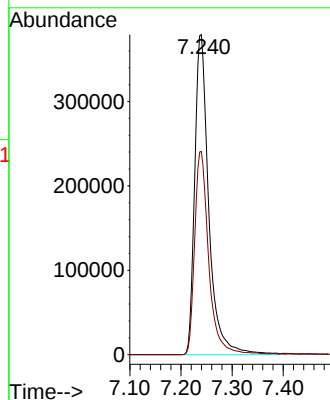
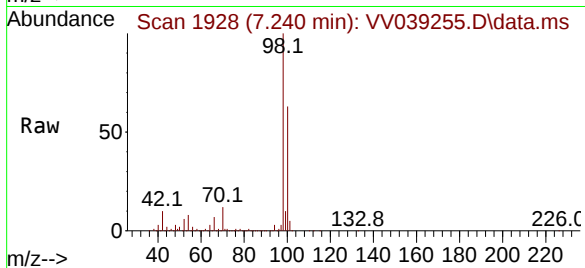
MW-4

Tgt Ion: 98 Resp: 725743

Ion Ratio Lower Upper

98 100

100 63.5 52.2 78.2



#58

2-Chloroethyl Vinyl ether

Concen: 9.631 ug/l

RT: 6.809 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VV039255.D

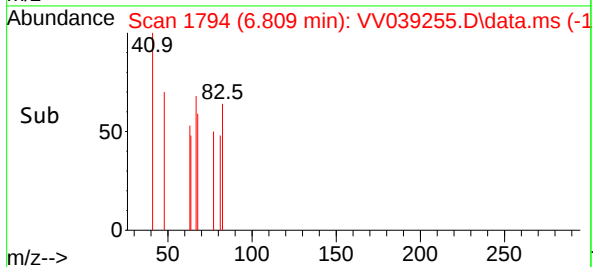
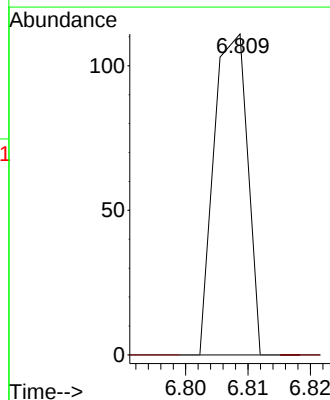
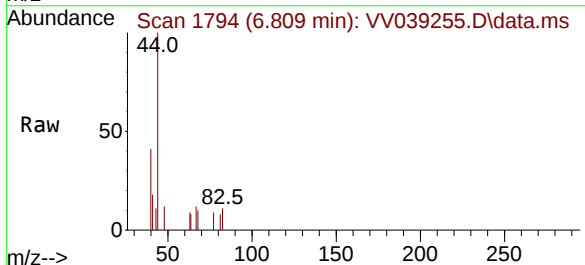
Acq: 03 Oct 2025 17:19

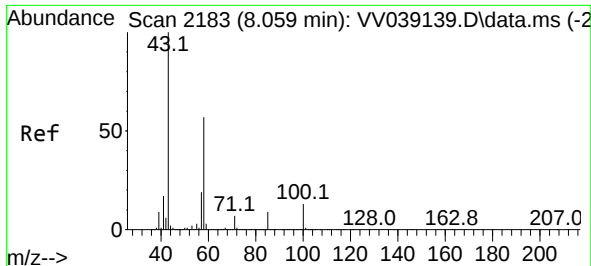
Tgt Ion: 63 Resp: 41

Ion Ratio Lower Upper

63 100

106 0.0 22.1 33.1#

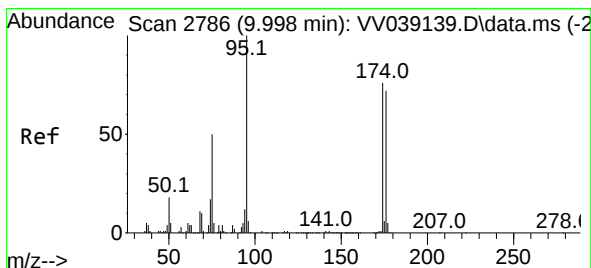
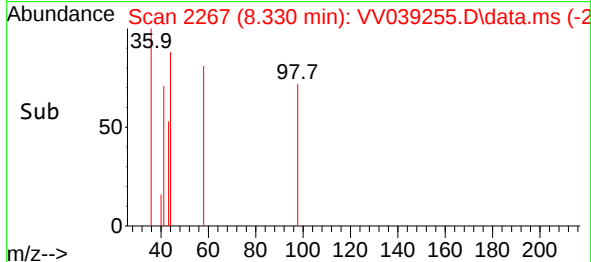
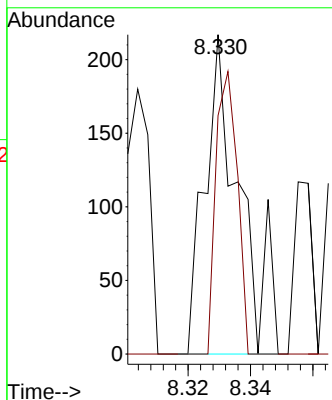
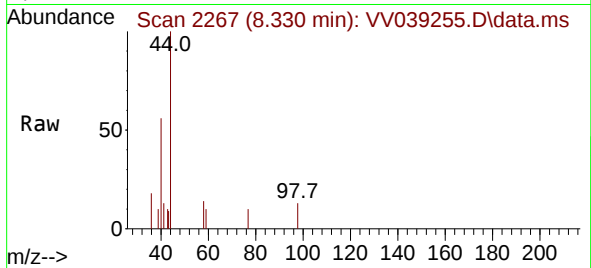




#59
2-Hexanone
Concen: 2.349 ug/l
RT: 8.330 min Scan# 2183
Delta R.T. 0.271 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

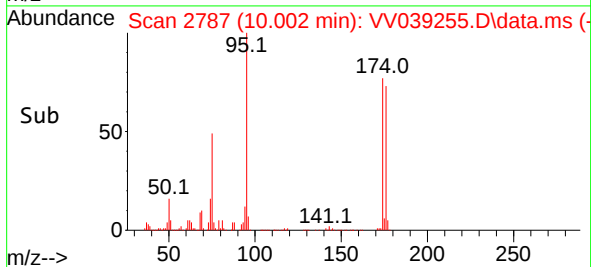
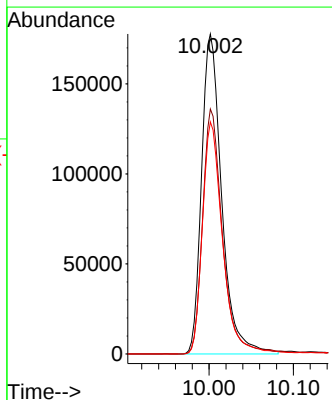
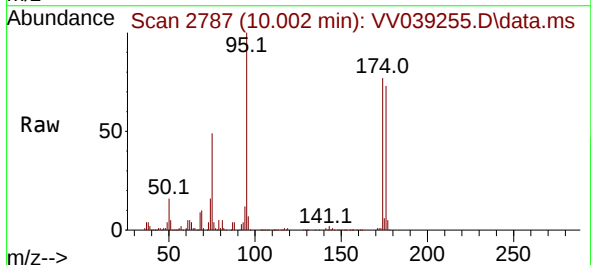
Instrument :
MSVOA_V
ClientSampleId :
MW-4

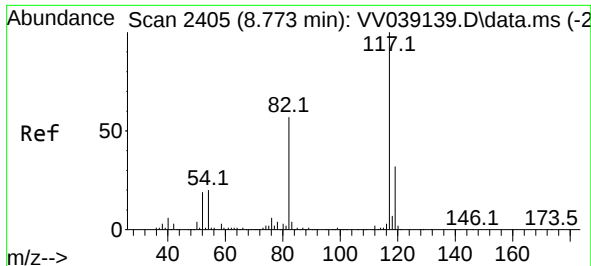
Tgt Ion: 43 Resp: 169
Ion Ratio Lower Upper
43 100
58 53.8 28.3 85.0



#62
4-Bromofluorobenzene
Concen: 45.140 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

Tgt Ion: 95 Resp: 295807
Ion Ratio Lower Upper
95 100
174 76.1 0.0 150.4
176 72.8 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: VV039255.D

Acq: 03 Oct 2025 17:19

Instrument :

MSVOA_V

ClientSampleId :

MW-4

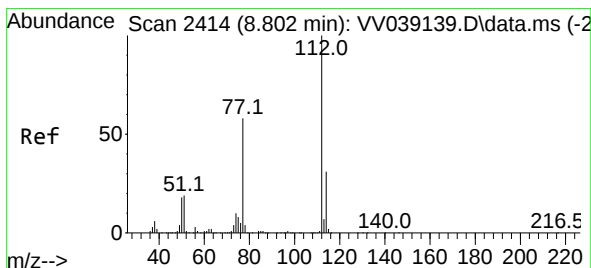
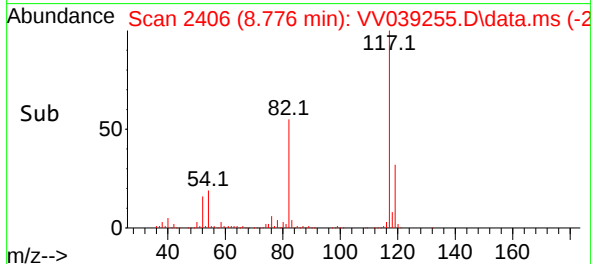
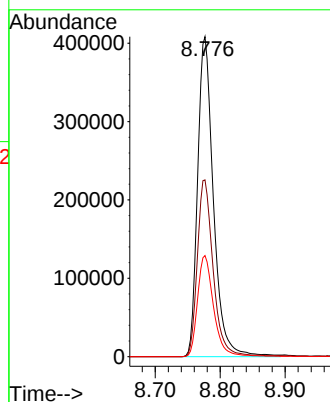
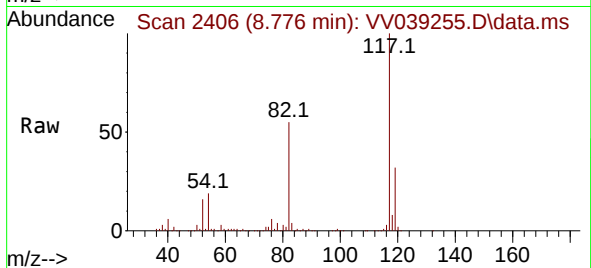
Tgt Ion:117 Resp: 694020

Ion Ratio Lower Upper

117 100

82 55.2 45.4 68.2

119 31.6 25.6 38.4



#65

Chlorobenzene

Concen: 0.708 ug/l

RT: 8.815 min Scan# 2418

Delta R.T. 0.013 min

Lab File: VV039255.D

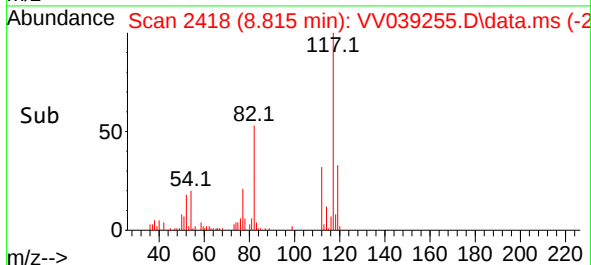
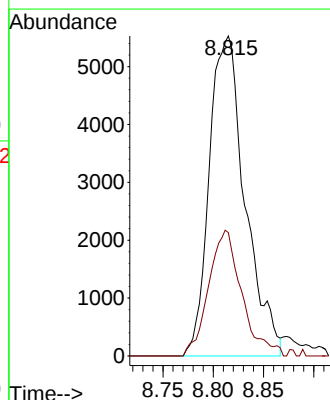
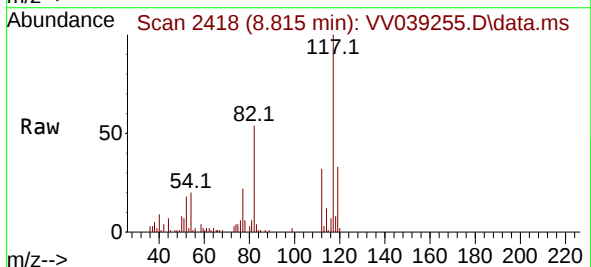
Acq: 03 Oct 2025 17:19

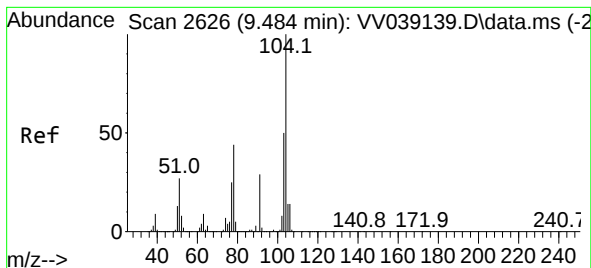
Tgt Ion:112 Resp: 13694

Ion Ratio Lower Upper

112 100

114 38.6 24.6 37.0#





#70

Styrene

Concen: 1.563 ug/l

RT: 9.600 min Scan# 2

Delta R.T. 0.116 min

Lab File: VV039255.D

Acq: 03 Oct 2025 17:19

Instrument :

MSVOA_V

ClientSampleId :

MW-4

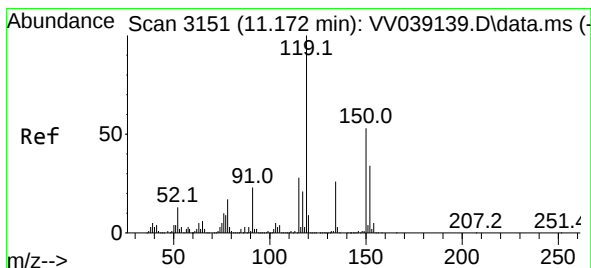
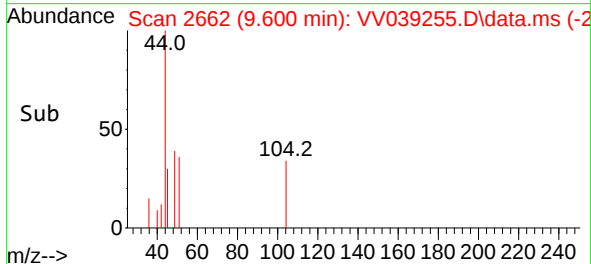
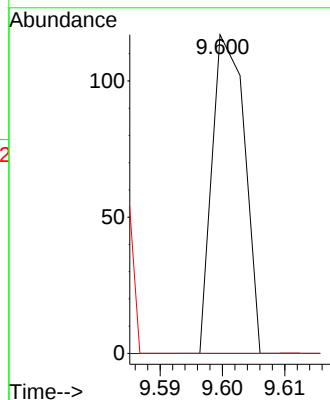
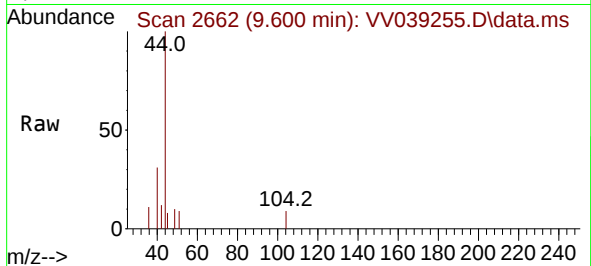
Tgt Ion:104 Resp: 42

Ion Ratio Lower Upper

104 100

78 0.0 39.8 59.6#

103 0.0 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: VV039255.D

Acq: 03 Oct 2025 17:19

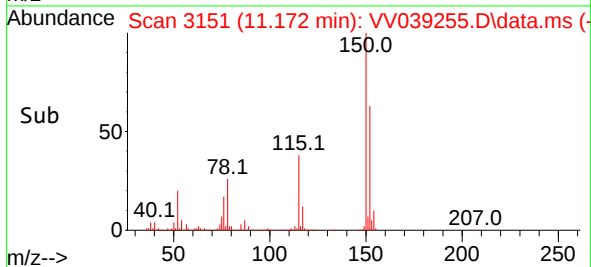
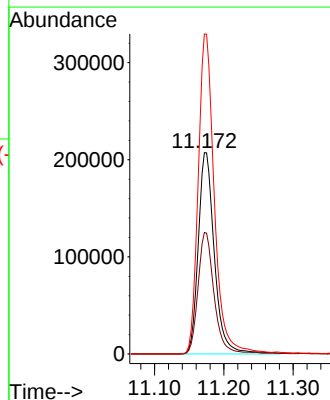
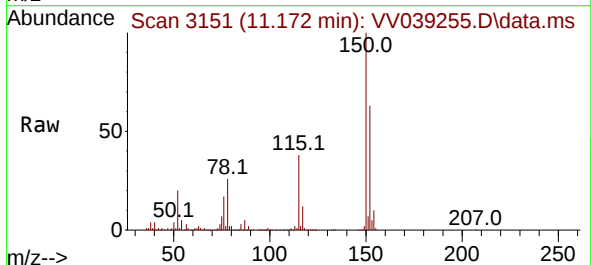
Tgt Ion:152 Resp: 336486

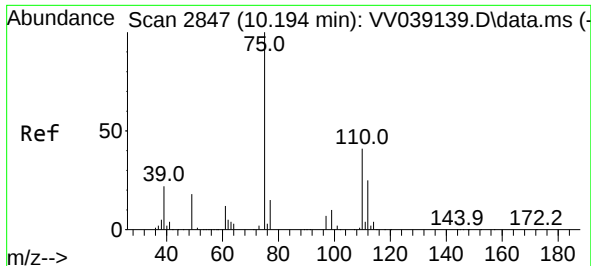
Ion Ratio Lower Upper

152 100

115 60.1 44.8 134.4

150 158.8 0.0 353.8

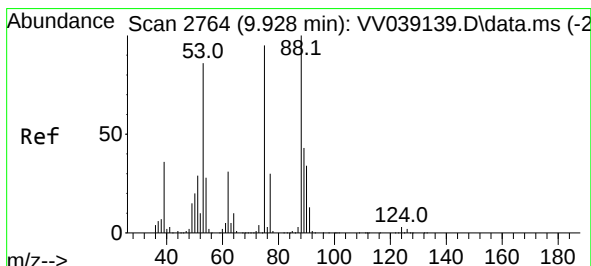
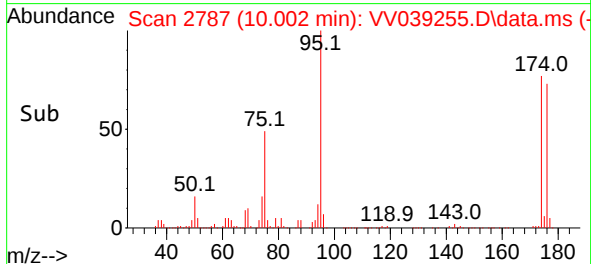
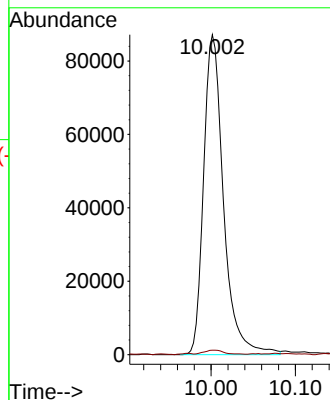
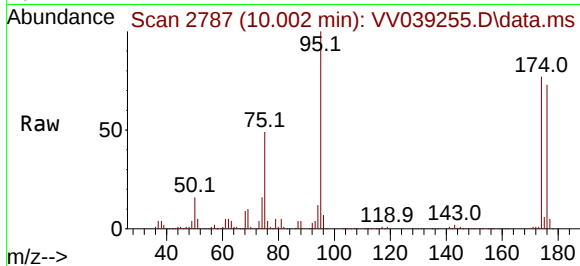




#76
1,2,3-Trichloropropane
Concen: 18.721 ug/l
RT: 10.002 min Scan# 21
Delta R.T. -0.193 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

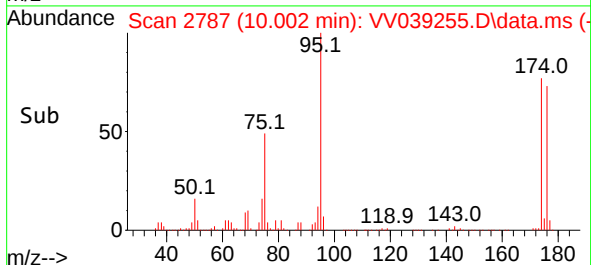
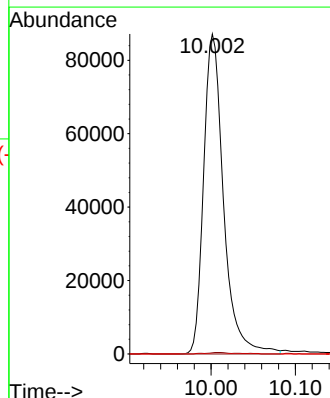
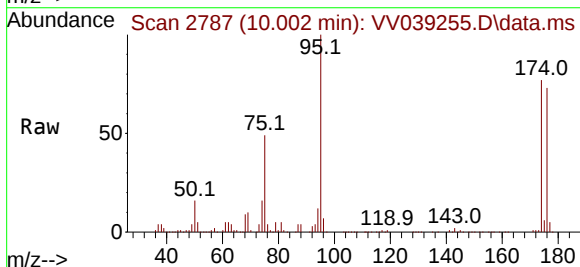
Instrument :
MSVOA_V
ClientSampleId :
MW-4

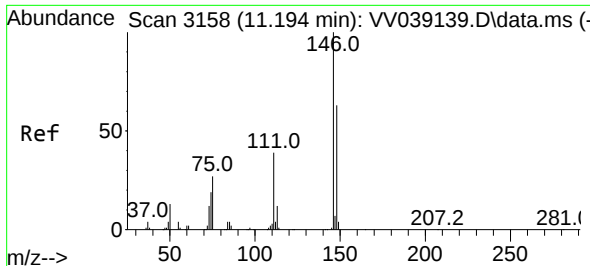
Tgt Ion: 75 Resp: 143425
Ion Ratio Lower Upper
75 100
77 1.3 11.3 33.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 44.943 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.074 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

Tgt Ion: 75 Resp: 143425
Ion Ratio Lower Upper
75 100
53 0.3 72.5 108.7#
89 0.0 37.2 55.8#

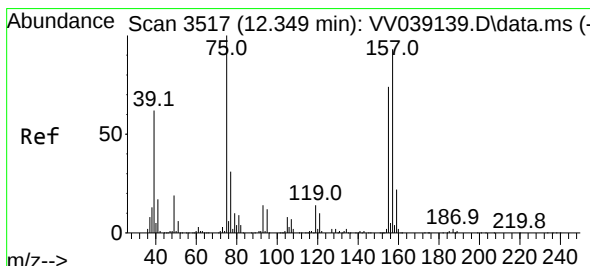
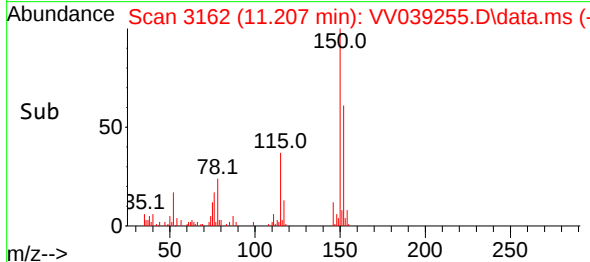
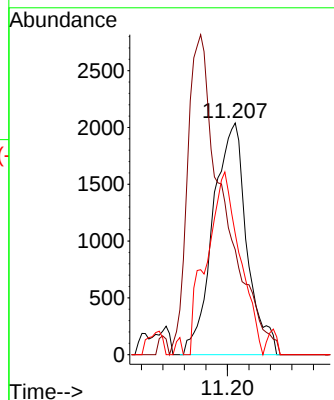
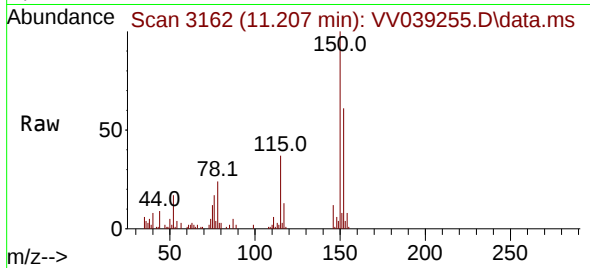




#88
 1,4-Dichlorobenzene
 Concen: 0.316 ug/l
 RT: 11.207 min Scan# 3158
 Delta R.T. 0.013 min
 Lab File: VV039255.D
 Acq: 03 Oct 2025 17:19

Instrument :
 MSVOA_V
 ClientSampleId :
 MW-4

Tgt Ion:146 Resp: 4447
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.3 60.8#
 148 77.3 31.4 94.2



#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 12.481 min Scan# 3558
 Delta R.T. 0.132 min
 Lab File: VV039255.D
 Acq: 03 Oct 2025 17:19

Tgt Ion: 75 Resp: 20
 Ion Ratio Lower Upper
 75 100
 155 0.0 38.6 115.8#
 157 0.0 49.5 148.3#

