

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
 Data File : VV039214.D
 Acq On : 26 Sep 2025 15:43
 Operator : SY/MD
 Sample : Q3195-15
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MW-31S-091825

Quant Time: Sep 29 07:51:49 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

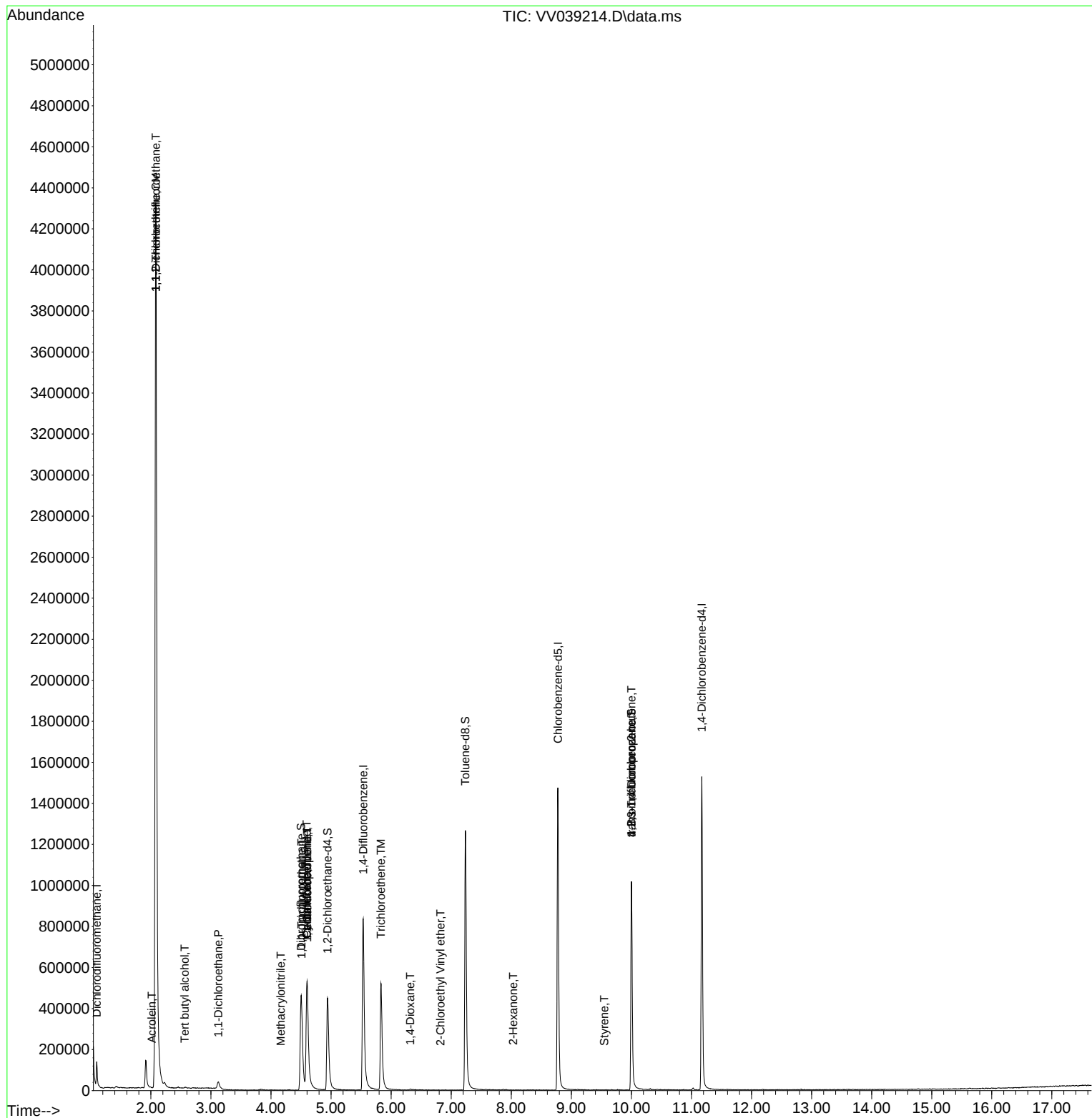
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	444783	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	811223	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	838423	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	399971	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	401052	62.301	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 124.600%#	
35) Dibromofluoromethane	4.503	113	373594	57.286	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 114.580%	
50) Toluene-d8	7.236	98	927814	48.440	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 96.880%	
62) 4-Bromofluorobenzene	10.001	95	350123	44.403	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 88.800%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.098	85	14228	2.021	ug/l	97
6) Chloroethane	1.561	64	138	Below Cal	#	44
9) 1,1,2-Trichlorotrifluo...	2.082	101	1950855	279.858	ug/l	98
11) Tert butyl alcohol	2.564	59	569	0.418	ug/l	99
12) 1,1-Dichloroethene	2.085	96	16213	2.418	ug/l	83
13) Acrolein	2.015	56	114	0.483	ug/l #	1
16) Acetone	2.124	43	10272	Below Cal		96
20) Methylene Chloride	2.458	84	1366	Below Cal	#	64
24) 1,1-Dichloroethane	3.124	63	37925	2.706	ug/l	97
31) Cyclohexane	4.597	56	10236	0.892	ug/l #	1
32) 1,1,1-Trichloroethane	4.510	97	28259	2.230	ug/l	98
36) 1,1-Dichloropropene	4.606	75	40619	4.120	ug/l #	41
38) Carbon Tetrachloride	4.597	117	47617	3.951	ug/l #	15
41) Methacrylonitrile	4.162	41	91	1.927	ug/l #	27
44) Trichloroethene	5.831	130	209487	28.275	ug/l	98
49) 1,4-Dioxane	6.320	88	1913	16.030	ug/l #	63
58) 2-Chloroethyl Vinyl ether	6.822	63	24	9.627	ug/l #	47
59) 2-Hexanone	8.034	43	133	2.341	ug/l #	23
70) Styrene	9.548	104	66	1.564	ug/l #	10
76) 1,2,3-Trichloropropane	10.001	75	171894	18.876	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	171894	45.314	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.358	75	42	Below Cal	#	5

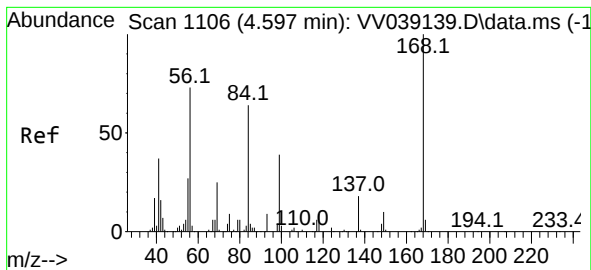
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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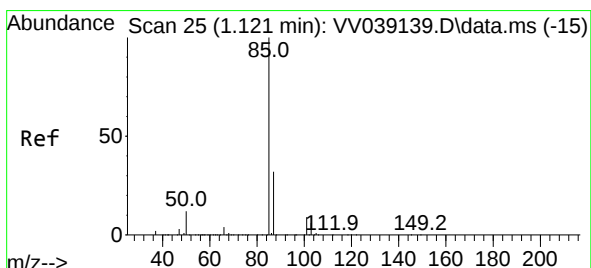
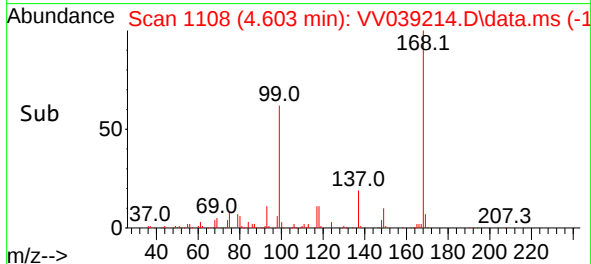
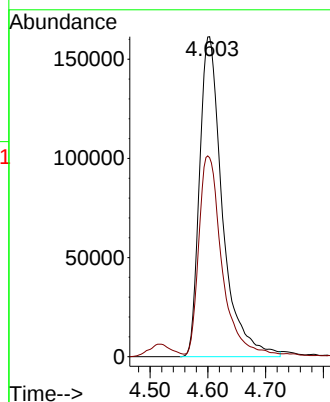
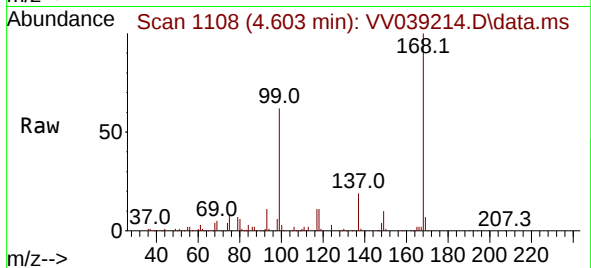




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

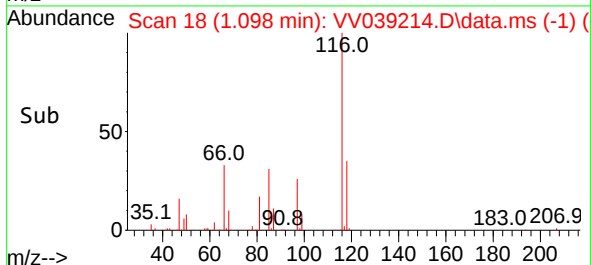
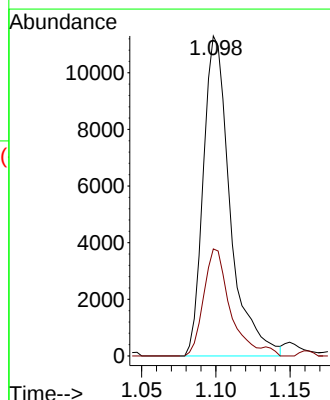
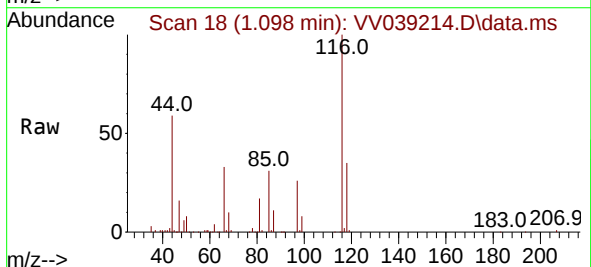
Instrument :
MSVOA_V
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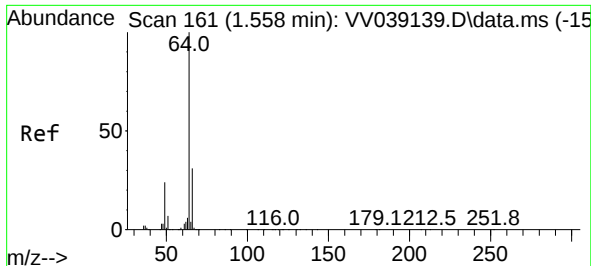
Tgt Ion:168 Resp: 444783
Ion Ratio Lower Upper
168 100
99 61.2 49.6 74.4



#2
Dichlorodifluoromethane
Concen: 2.021 ug/l
RT: 1.098 min Scan# 18
Delta R.T. -0.023 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion: 85 Resp: 14228
Ion Ratio Lower Upper
85 100
87 33.4 16.0 47.9

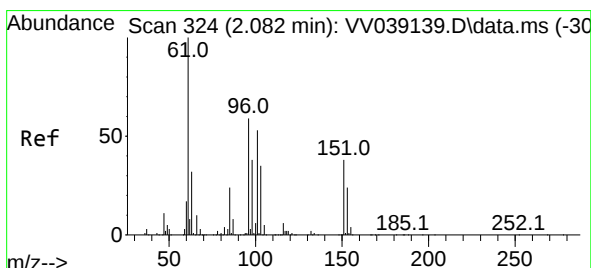
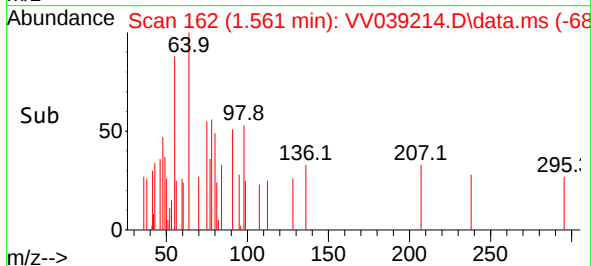
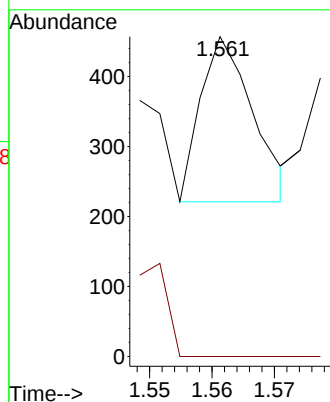
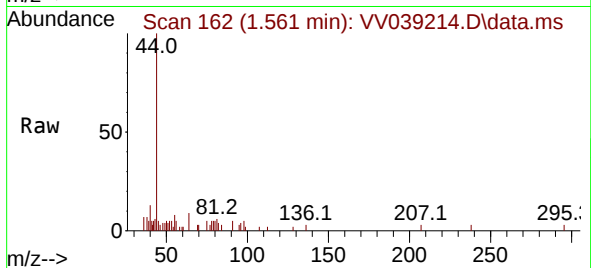




#6
Chloroethane
Concen: Below Cal
RT: 1.561 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

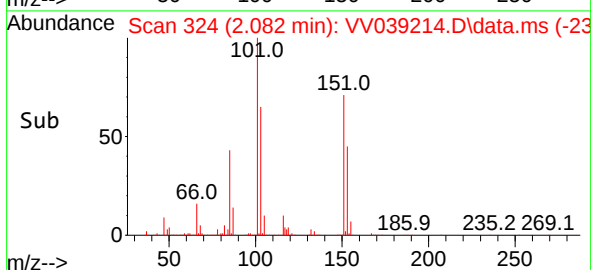
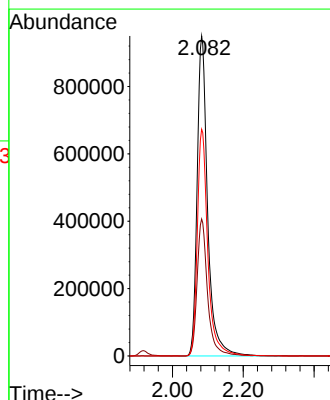
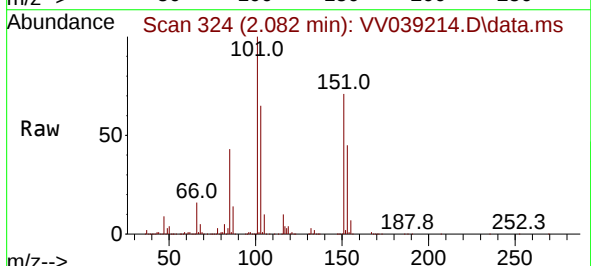
Instrument :
MSVOA_V
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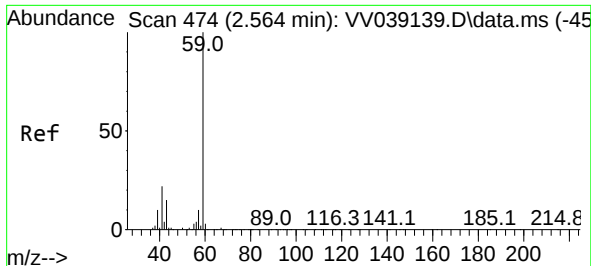
Tgt Ion: 64 Resp: 138
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 279.858 ug/l
RT: 2.082 min Scan# 324
Delta R.T. 0.000 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion:101 Resp: 1950855
Ion Ratio Lower Upper
101 100
85 42.8 36.2 54.2
151 71.2 56.3 84.5

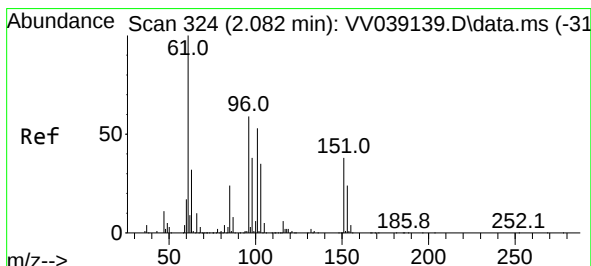
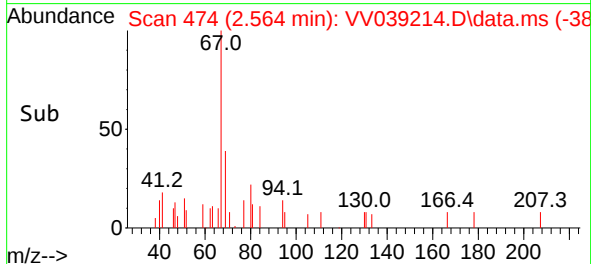
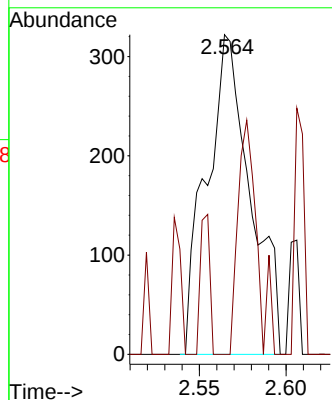
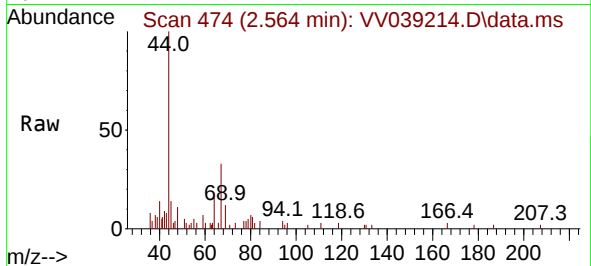




#11
Tert butyl alcohol
Concen: 0.418 ug/l
RT: 2.564 min Scan# 41
Delta R.T. 0.000 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

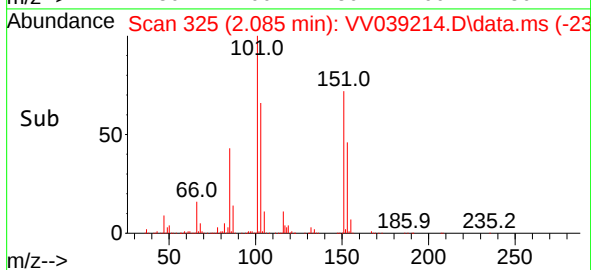
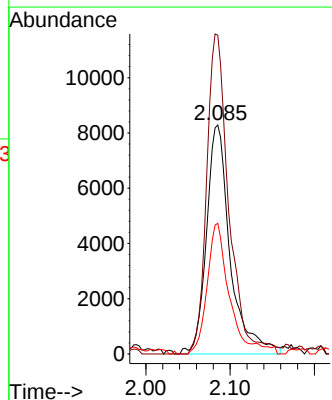
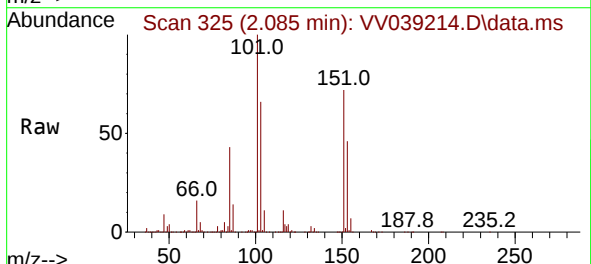
Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825

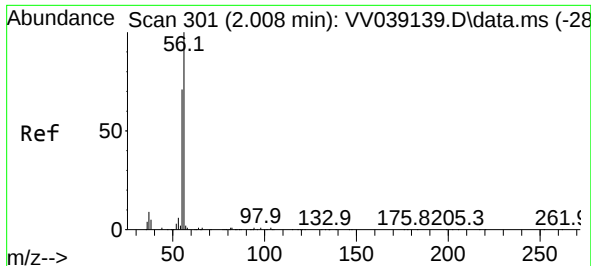
Tgt Ion: 59 Resp: 569
Ion Ratio Lower Upper
59 100
57 9.3 7.8 11.8



#12
1,1-Dichloroethene
Concen: 2.418 ug/l
RT: 2.085 min Scan# 325
Delta R.T. 0.003 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion: 96 Resp: 16213
Ion Ratio Lower Upper
96 100
61 142.4 136.0 204.0
98 58.3 51.0 76.6

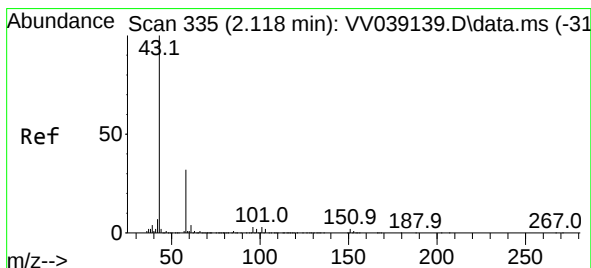
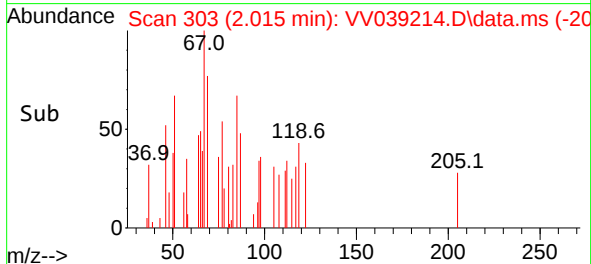
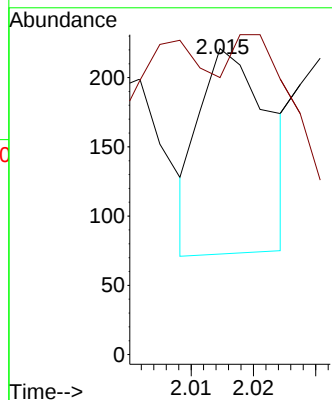
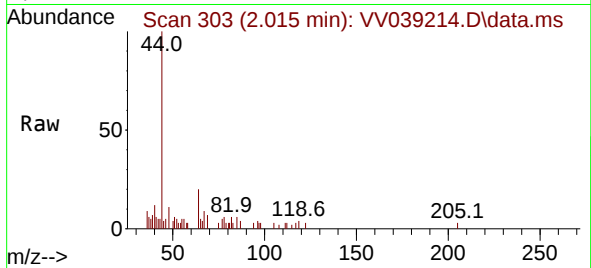




#13
Acrolein
Concen: 0.483 ug/l
RT: 2.015 min Scan# 301
Delta R.T. 0.006 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

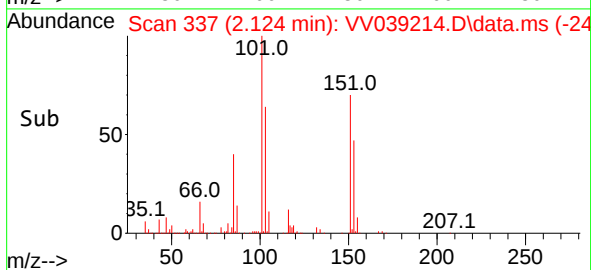
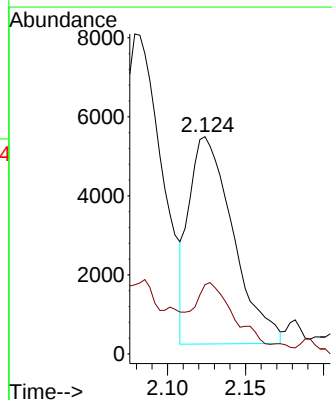
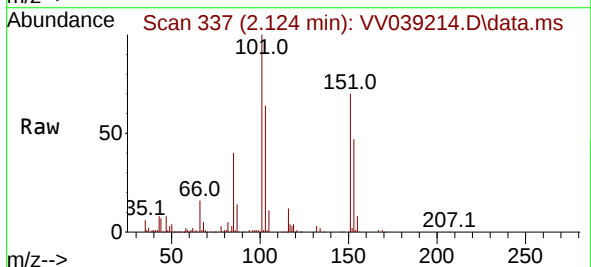
Instrument :
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ClientSampleId :
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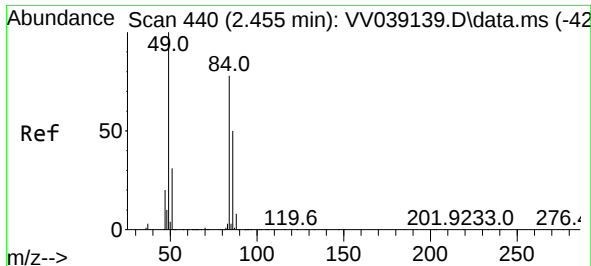
Tgt Ion: 56 Resp: 114
Ion Ratio Lower Upper
56 100
55 227.2 56.2 84.4#



#16
Acetone
Concen: Below Cal
RT: 2.124 min Scan# 337
Delta R.T. 0.006 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion: 43 Resp: 10272
Ion Ratio Lower Upper
43 100
58 30.2 25.8 38.6

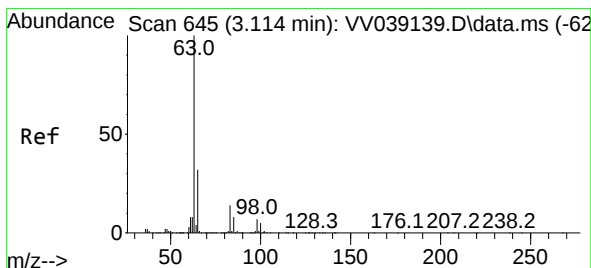
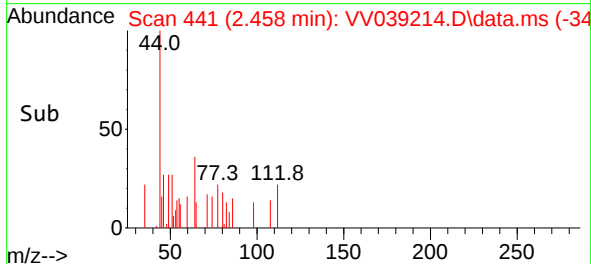
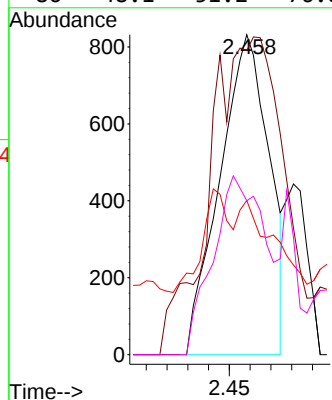
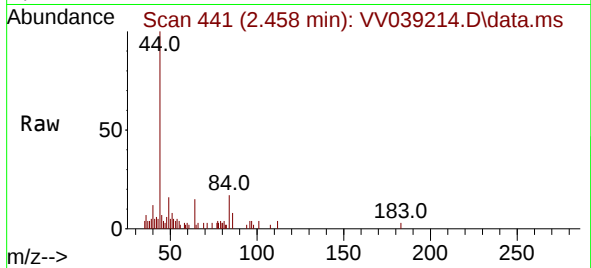




#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

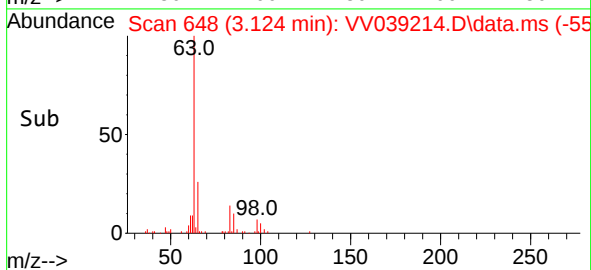
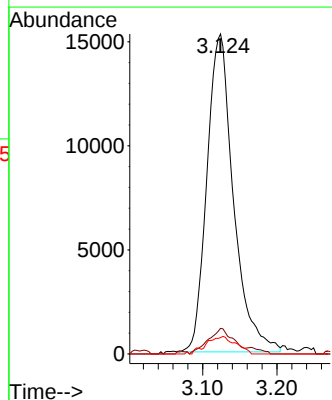
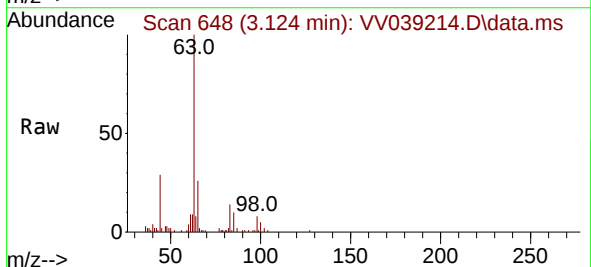
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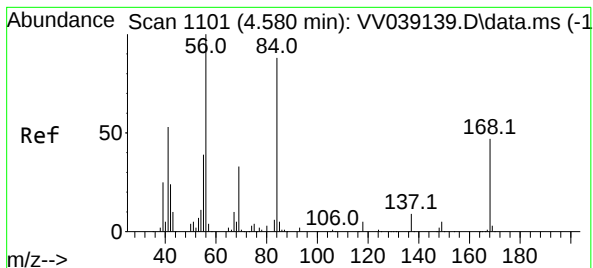
Tgt Ion: 84 Resp: 1366
Ion Ratio Lower Upper
84 100
49 72.8 102.8 154.2#
51 25.5 31.9 47.9#
86 48.1 51.2 76.8#



#24
1,1-Dichloroethane
Concen: 2.706 ug/l
RT: 3.124 min Scan# 648
Delta R.T. 0.010 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion: 63 Resp: 37925
Ion Ratio Lower Upper
63 100
98 8.1 3.4 10.2
100 5.1 2.2 6.6





#31

Cyclohexane

Concen: 0.892 ug/l

RT: 4.597 min Scan# 1106

Delta R.T. 0.016 min

Lab File: VV039214.D

Acq: 26 Sep 2025 15:43

Instrument :

MSVOA_V

ClientSampleId :

MW-31S-091825

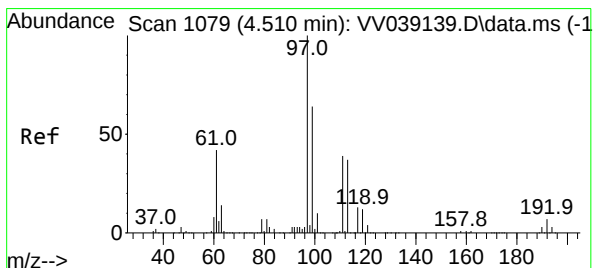
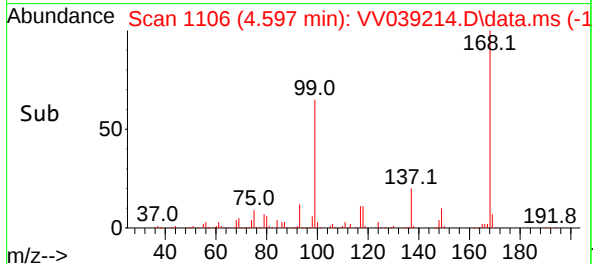
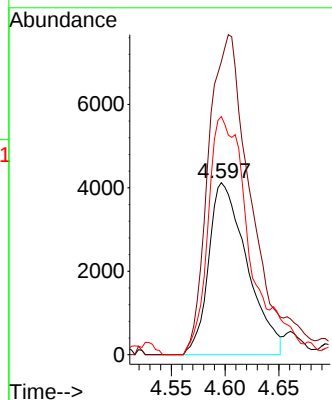
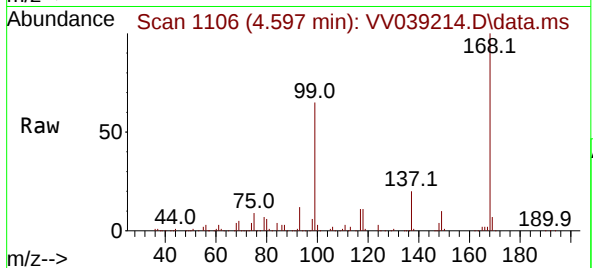
Tgt Ion: 56 Resp: 10236

Ion Ratio Lower Upper

56 100

69 170.4 26.2 39.2#

84 138.5 70.3 105.5#



#32

1,1,1-Trichloroethane

Concen: 2.230 ug/l

RT: 4.510 min Scan# 1079

Delta R.T. 0.000 min

Lab File: VV039214.D

Acq: 26 Sep 2025 15:43

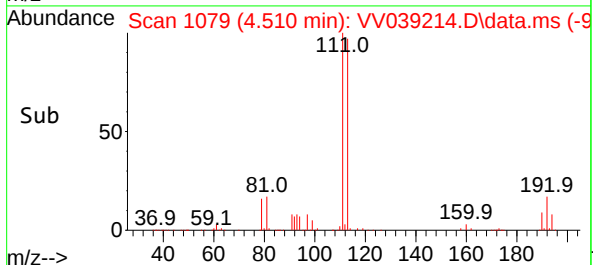
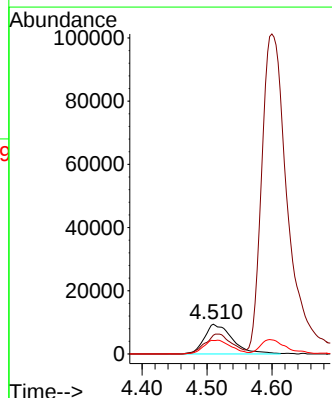
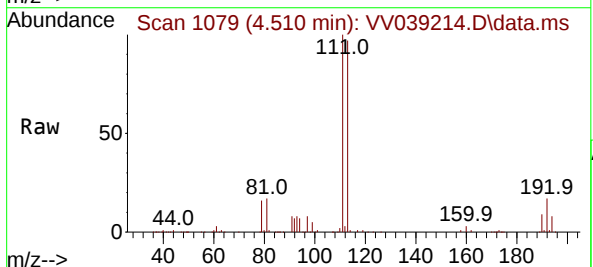
Tgt Ion: 97 Resp: 28259

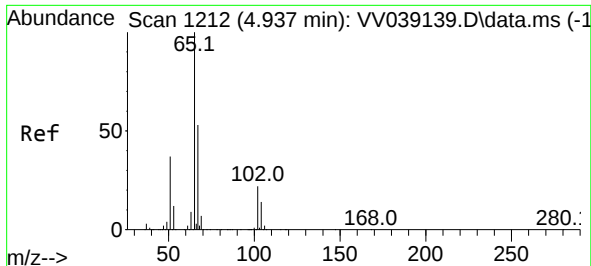
Ion Ratio Lower Upper

97 100

99 62.5 49.6 74.4

61 44.9 34.5 51.7





#33

1,2-Dichloroethane-d4

Concen: 62.301 ug/l

RT: 4.941 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV039214.D

Acq: 26 Sep 2025 15:43

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ClientSampleId :

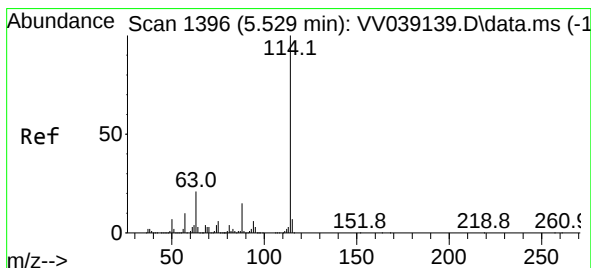
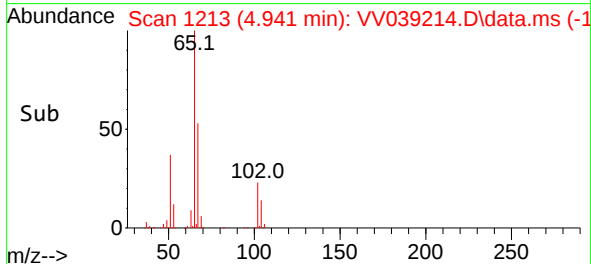
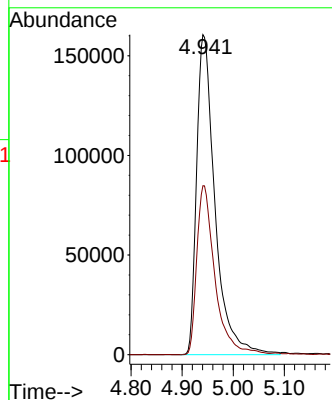
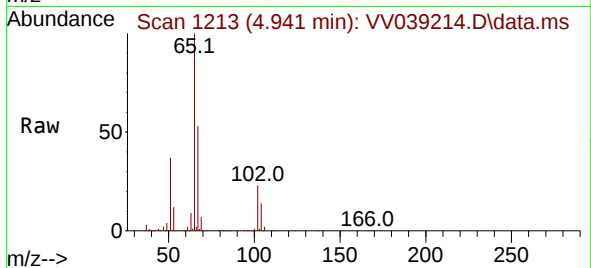
MW-31S-091825

Tgt Ion: 65 Resp: 401052

Ion Ratio Lower Upper

65 100

67 52.2 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VV039214.D

Acq: 26 Sep 2025 15:43

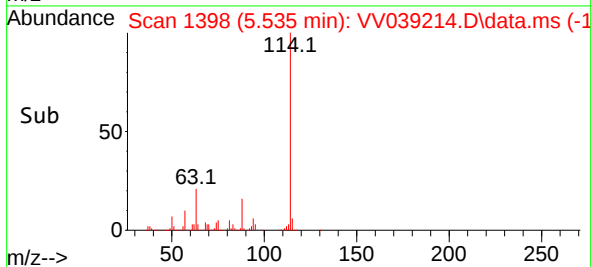
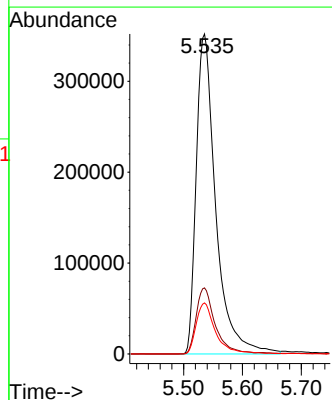
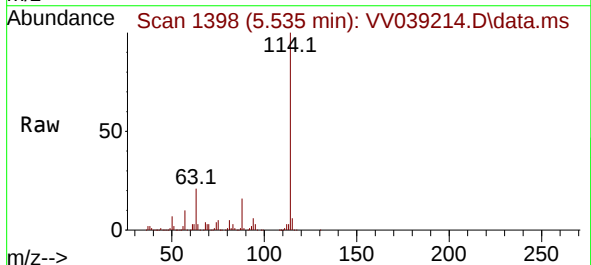
Tgt Ion: 114 Resp: 811223

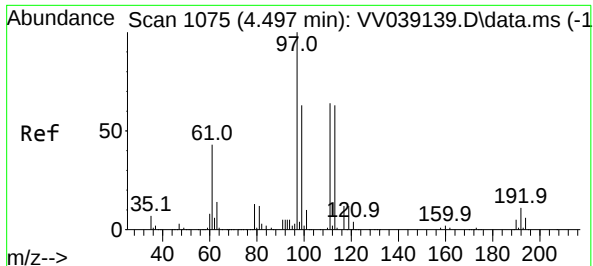
Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.6

88 16.0 0.0 30.8





#35

Dibromofluoromethane

Concen: 57.286 ug/l

RT: 4.503 min Scan# 1109

Delta R.T. 0.006 min

Lab File: VV039214.D

Acq: 26 Sep 2025 15:43

Instrument :

MSVOA_V

ClientSampleId :

MW-31S-091825

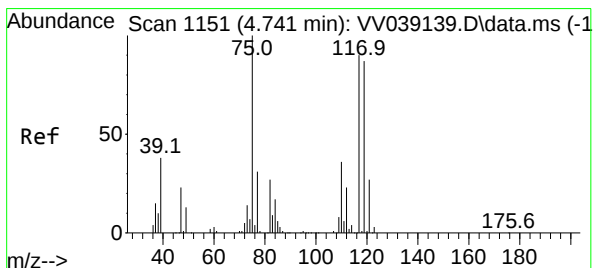
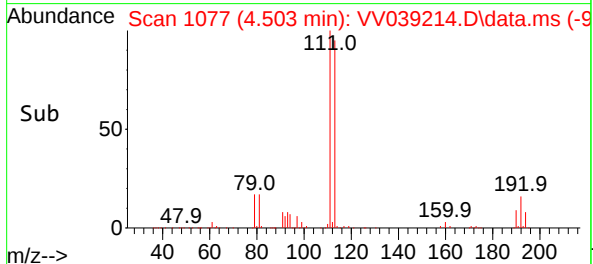
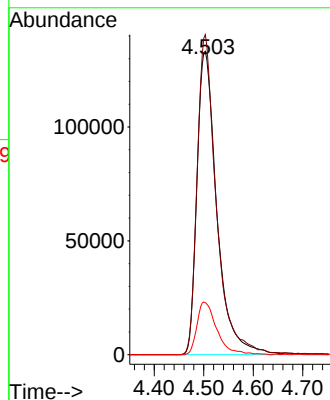
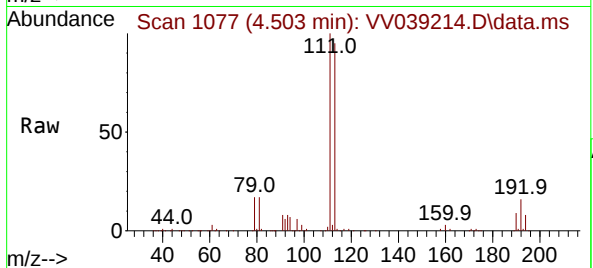
Tgt Ion:113 Resp: 373594

Ion Ratio Lower Upper

113 100

111 101.4 82.4 123.6

192 17.0 13.8 20.8



#36

1,1-Dichloropropene

Concen: 4.120 ug/l

RT: 4.606 min Scan# 1109

Delta R.T. -0.135 min

Lab File: VV039214.D

Acq: 26 Sep 2025 15:43

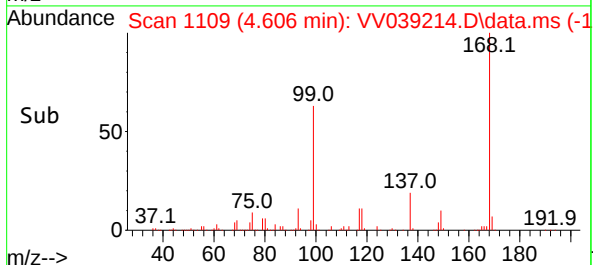
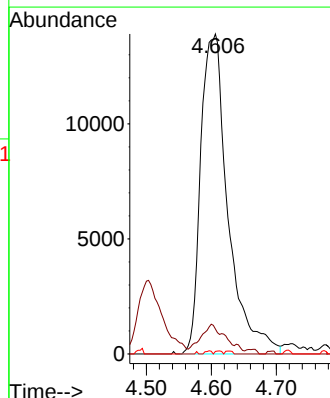
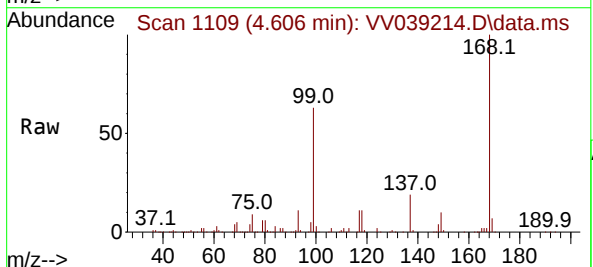
Tgt Ion: 75 Resp: 40619

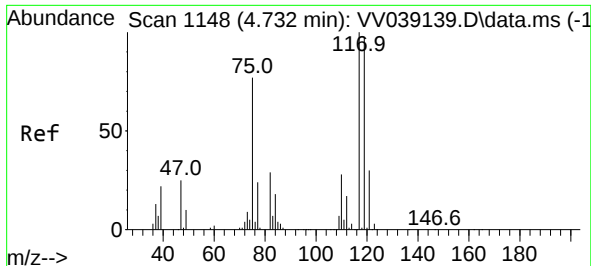
Ion Ratio Lower Upper

75 100

110 0.0 18.1 54.1#

77 0.2 24.8 37.2#

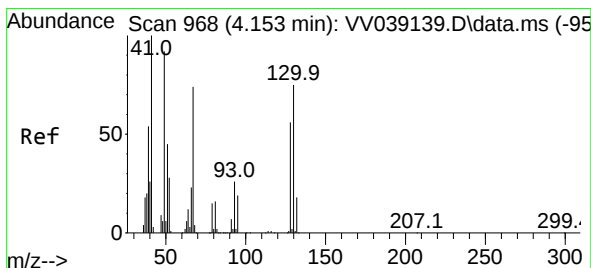
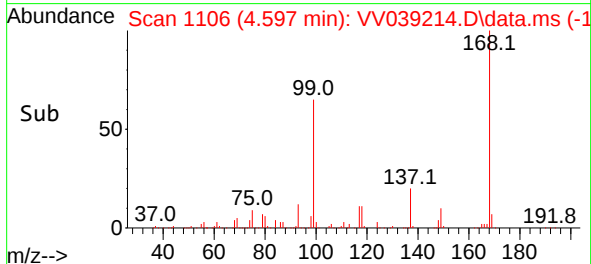
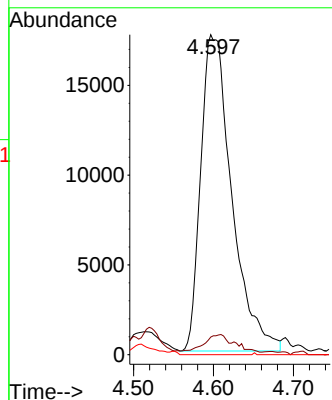
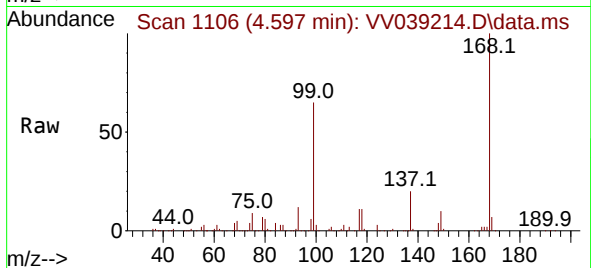




#38
Carbon Tetrachloride
Concen: 3.951 ug/l
RT: 4.597 min Scan# 1148
Delta R.T. -0.135 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

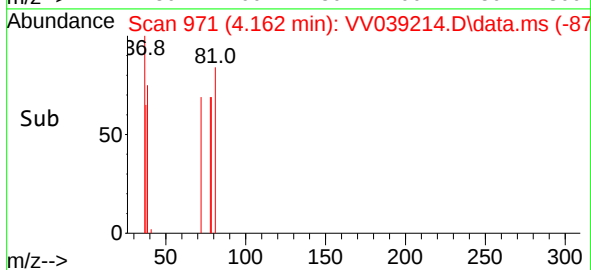
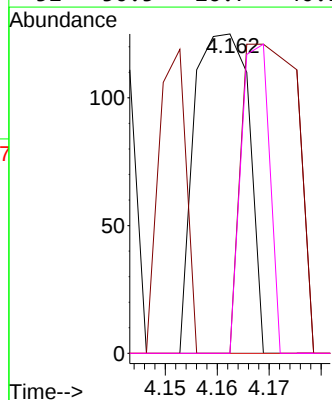
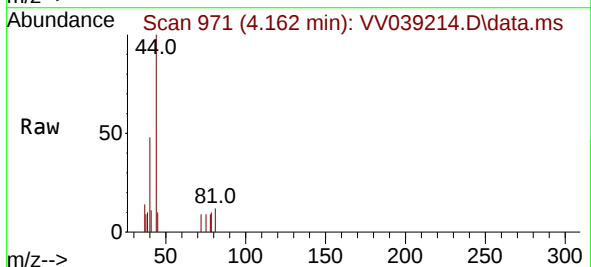
Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825

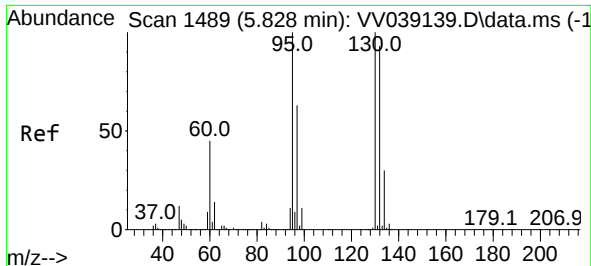
Tgt Ion:117 Resp: 47617
Ion Ratio Lower Upper
117 100
119 4.7 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.927 ug/l
RT: 4.162 min Scan# 971
Delta R.T. 0.009 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion: 41 Resp: 91
Ion Ratio Lower Upper
41 100
39 100.0 42.2 63.2#
67 0.0 67.9 101.9#
52 50.5 26.7 40.1#

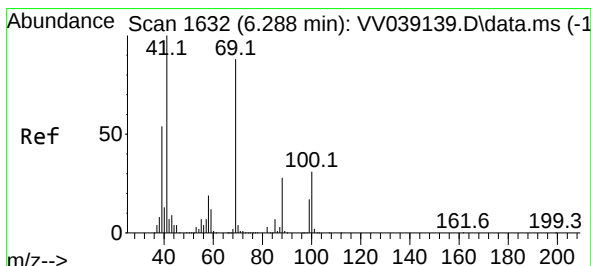
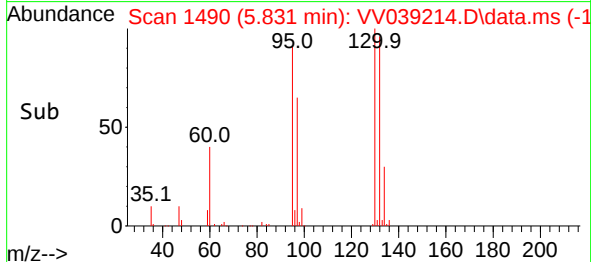
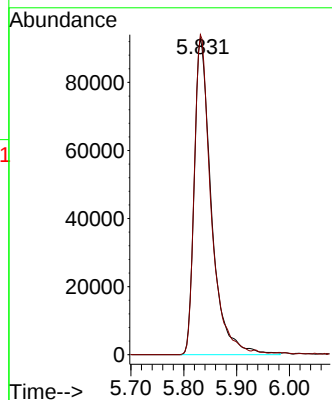
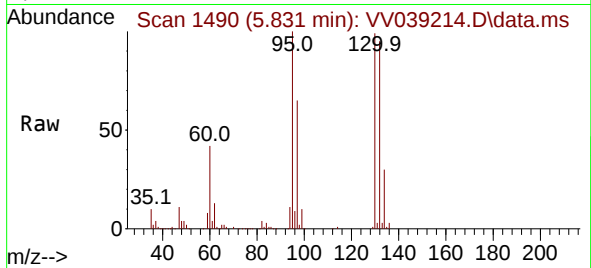




#44
 Trichloroethene
 Concen: 28.275 ug/l
 RT: 5.831 min Scan# 1489
 Delta R.T. 0.003 min
 Lab File: VV039214.D
 Acq: 26 Sep 2025 15:43

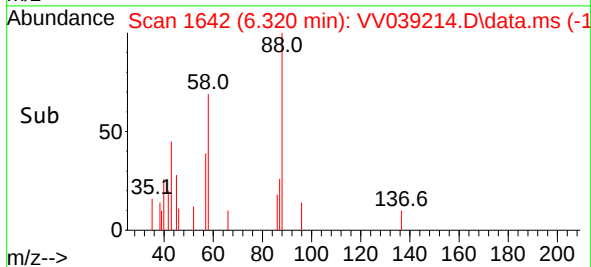
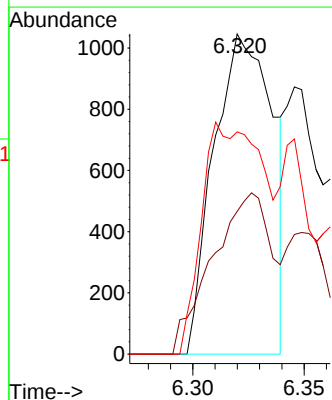
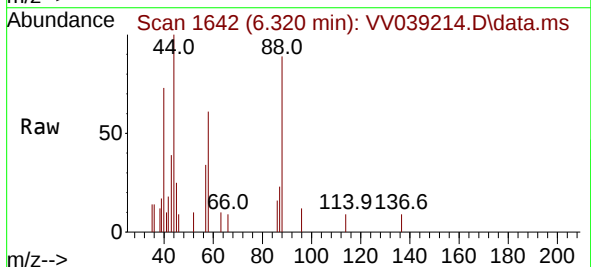
Instrument :
 MSVOA_V
 ClientSampleId :
 MW-31S-091825

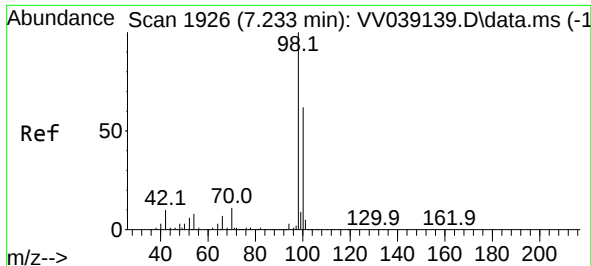
Tgt Ion:130 Resp: 209487
 Ion Ratio Lower Upper
 130 100
 95 101.2 0.0 199.2



#49
 1,4-Dioxane
 Concen: 16.030 ug/l
 RT: 6.320 min Scan# 1642
 Delta R.T. 0.032 min
 Lab File: VV039214.D
 Acq: 26 Sep 2025 15:43

Tgt Ion: 88 Resp: 1913
 Ion Ratio Lower Upper
 88 100
 43 51.1 25.1 37.7#
 58 36.7 53.6 80.4#

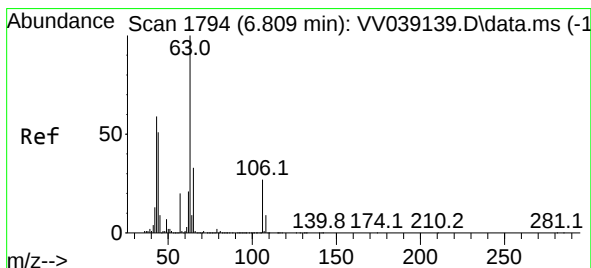
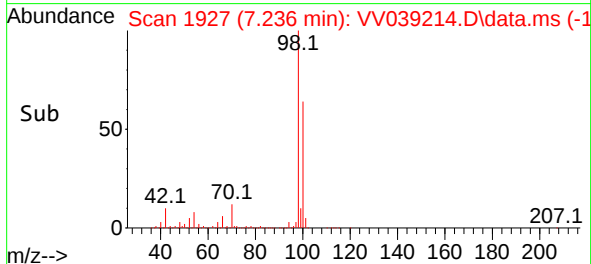
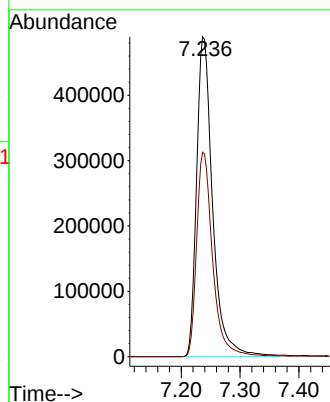
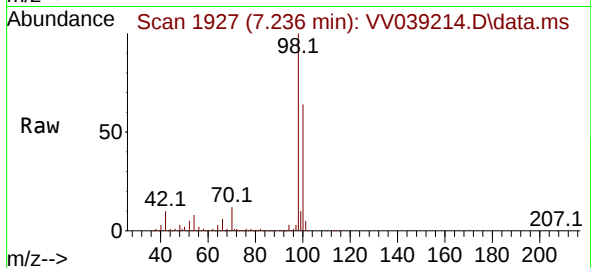




#50
Toluene-d8
Concen: 48.440 ug/l
RT: 7.236 min Scan# 1926
Delta R.T. 0.003 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

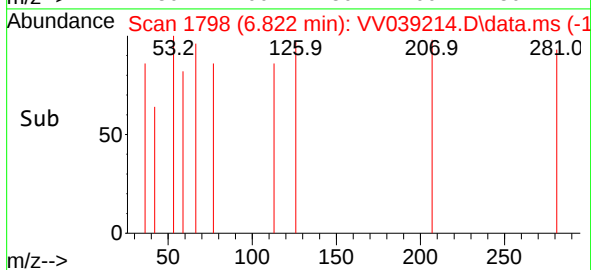
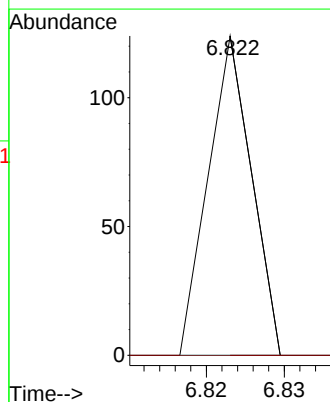
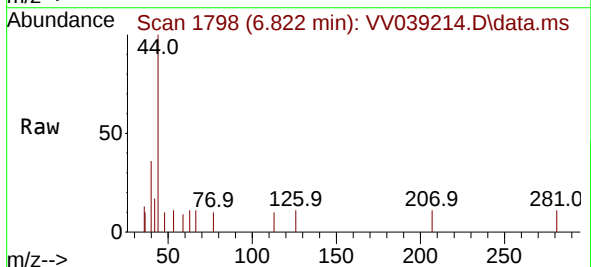
Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825

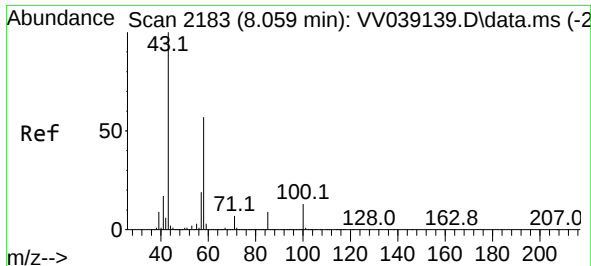
Tgt Ion: 98 Resp: 927814
Ion Ratio Lower Upper
98 100
100 63.7 52.2 78.2



#58
2-Chloroethyl Vinyl ether
Concen: 9.627 ug/l
RT: 6.822 min Scan# 1798
Delta R.T. 0.013 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion: 63 Resp: 24
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#





#59

2-Hexanone

Concen: 2.341 ug/l

RT: 8.034 min Scan# 2183

Delta R.T. -0.025 min

Lab File: VV039214.D

Acq: 26 Sep 2025 15:43

Instrument :

MSVOA_V

ClientSampleId :

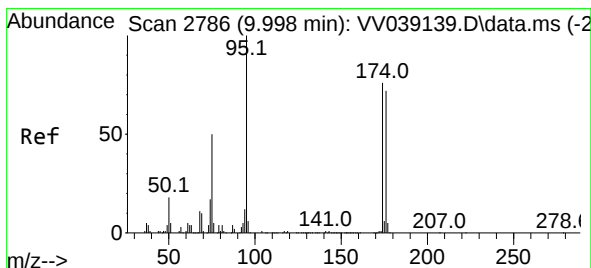
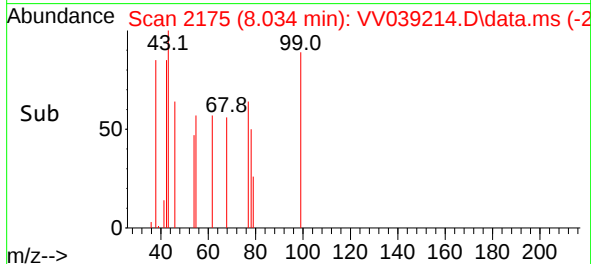
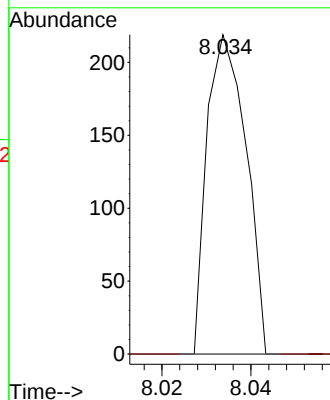
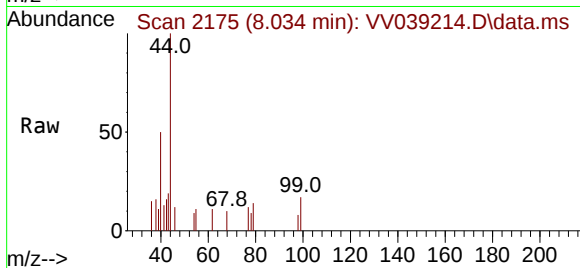
MW-31S-091825

Tgt Ion: 43 Resp: 133

Ion Ratio Lower Upper

43 100

58 0.0 28.3 85.0#



#62

4-Bromofluorobenzene

Concen: 44.403 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.003 min

Lab File: VV039214.D

Acq: 26 Sep 2025 15:43

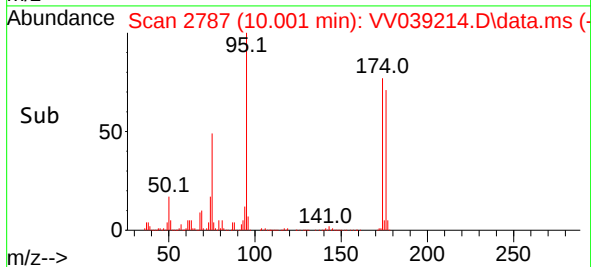
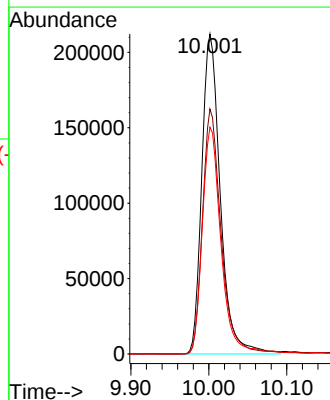
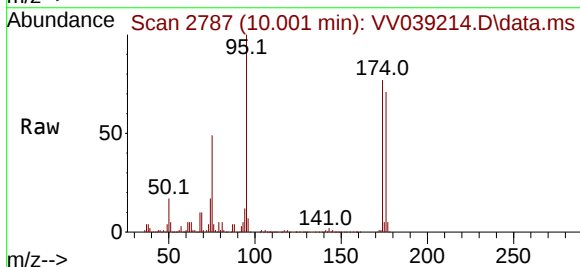
Tgt Ion: 95 Resp: 350123

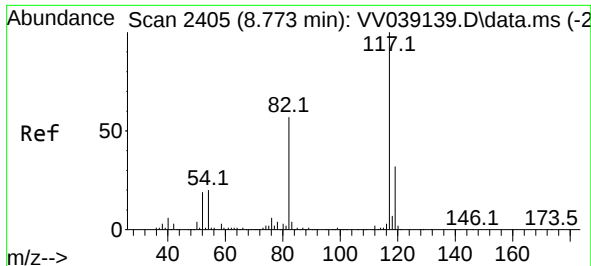
Ion Ratio Lower Upper

95 100

174 77.3 0.0 150.4

176 71.1 0.0 144.2

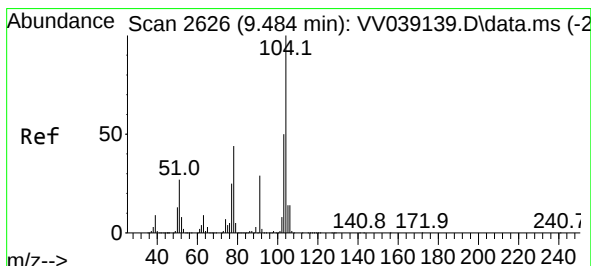
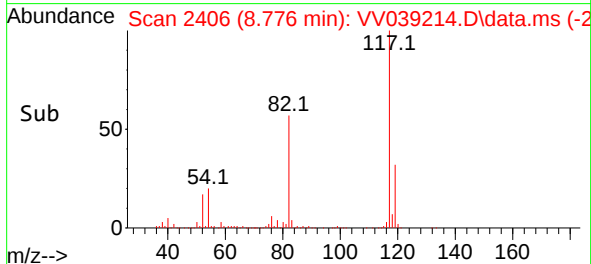
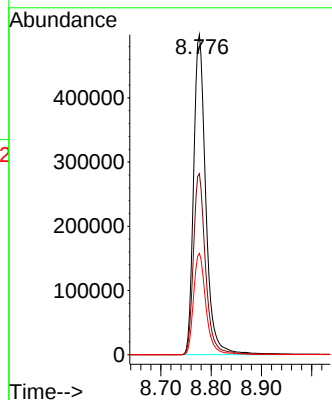
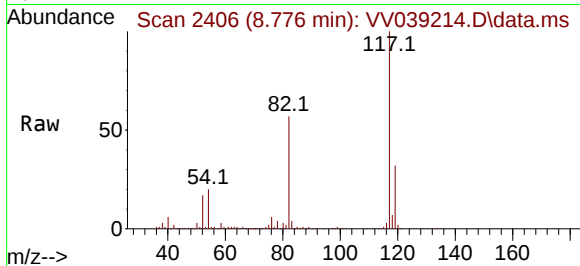




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

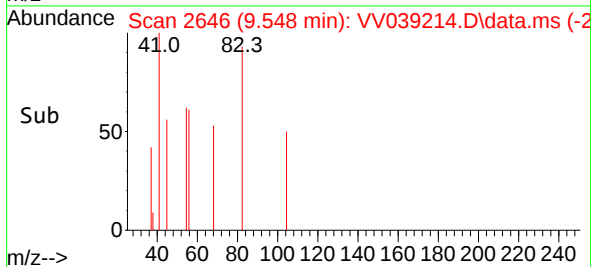
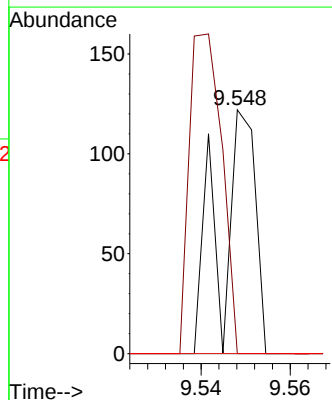
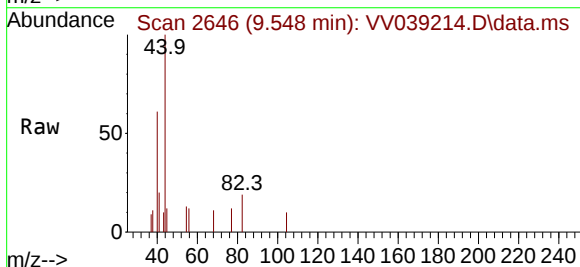
Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825

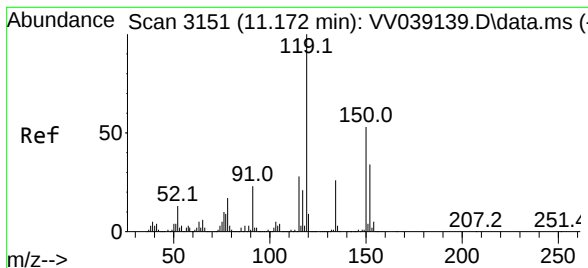
Tgt Ion:117 Resp: 838423
Ion Ratio Lower Upper
117 100
82 56.5 45.4 68.2
119 31.6 25.6 38.4



#70
Styrene
Concen: 1.564 ug/l
RT: 9.548 min Scan# 2646
Delta R.T. 0.064 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion:104 Resp: 66
Ion Ratio Lower Upper
104 100
78 122.7 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: VV039214.D

Acq: 26 Sep 2025 15:43

Instrument :

MSVOA_V

ClientSampleId :

MW-31S-091825

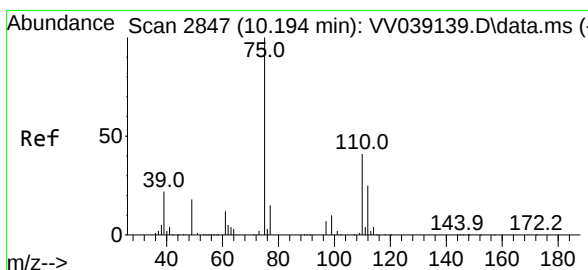
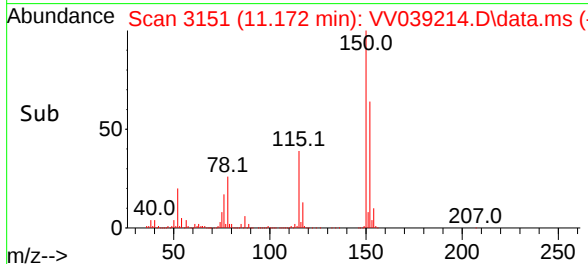
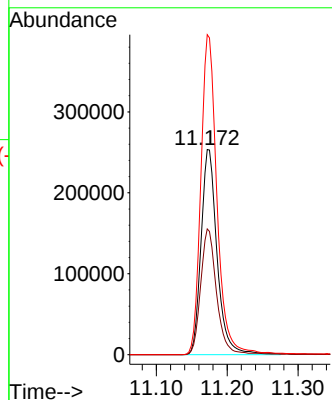
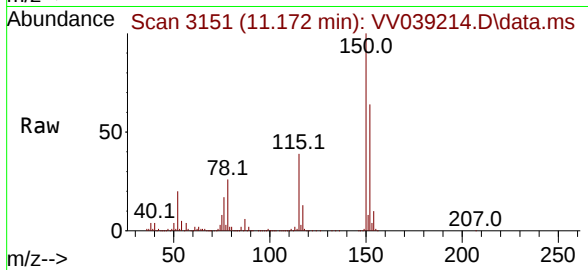
Tgt Ion:152 Resp: 399971

Ion Ratio Lower Upper

152 100

115 60.8 44.8 134.4

150 155.5 0.0 353.8



#76

1,2,3-Trichloropropane

Concen: 18.876 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.193 min

Lab File: VV039214.D

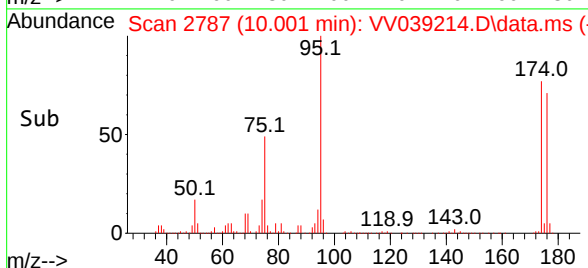
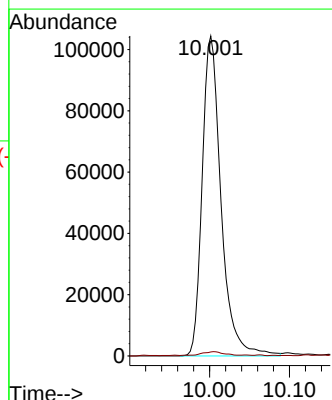
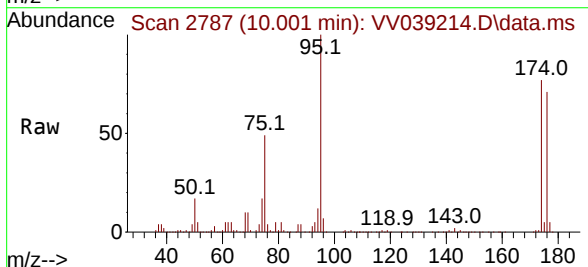
Acq: 26 Sep 2025 15:43

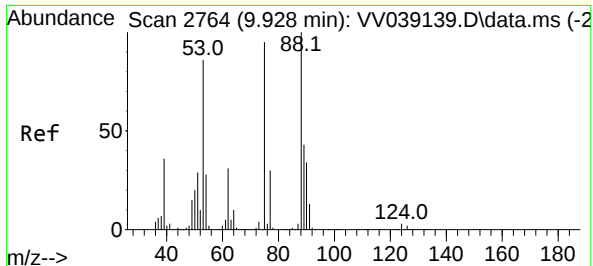
Tgt Ion: 75 Resp: 171894

Ion Ratio Lower Upper

75 100

77 1.2 11.3 33.8#

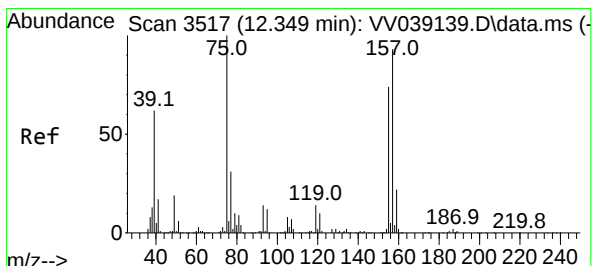
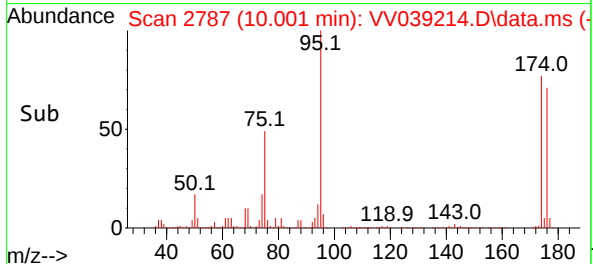
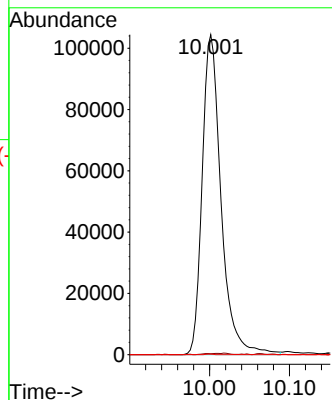
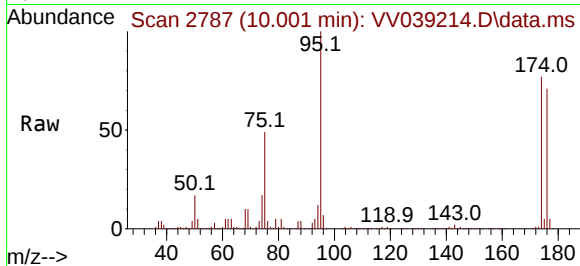




#81
 trans-1,4-Dichloro-2-butene
 Concen: 45.314 ug/l
 RT: 10.001 min Scan# 21
 Delta R.T. 0.074 min
 Lab File: VV039214.D
 Acq: 26 Sep 2025 15:43

Instrument :
 MSVOA_V
 ClientSampleId :
 MW-31S-091825

Tgt Ion: 75 Resp: 171894
 Ion Ratio Lower Upper
 75 100
 53 0.2 72.5 108.7#
 89 0.1 37.2 55.8#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 12.358 min Scan# 3520
 Delta R.T. 0.009 min
 Lab File: VV039214.D
 Acq: 26 Sep 2025 15:43

Tgt Ion: 75 Resp: 42
 Ion Ratio Lower Upper
 75 100
 155 0.0 38.6 115.8#
 157 0.0 49.5 148.3#

