

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
 Data File : VV039217.D
 Acq On : 26 Sep 2025 16:50
 Operator : SY/MD
 Sample : Q3195-18
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MW-32S-091725

Quant Time: Sep 29 07:53:34 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

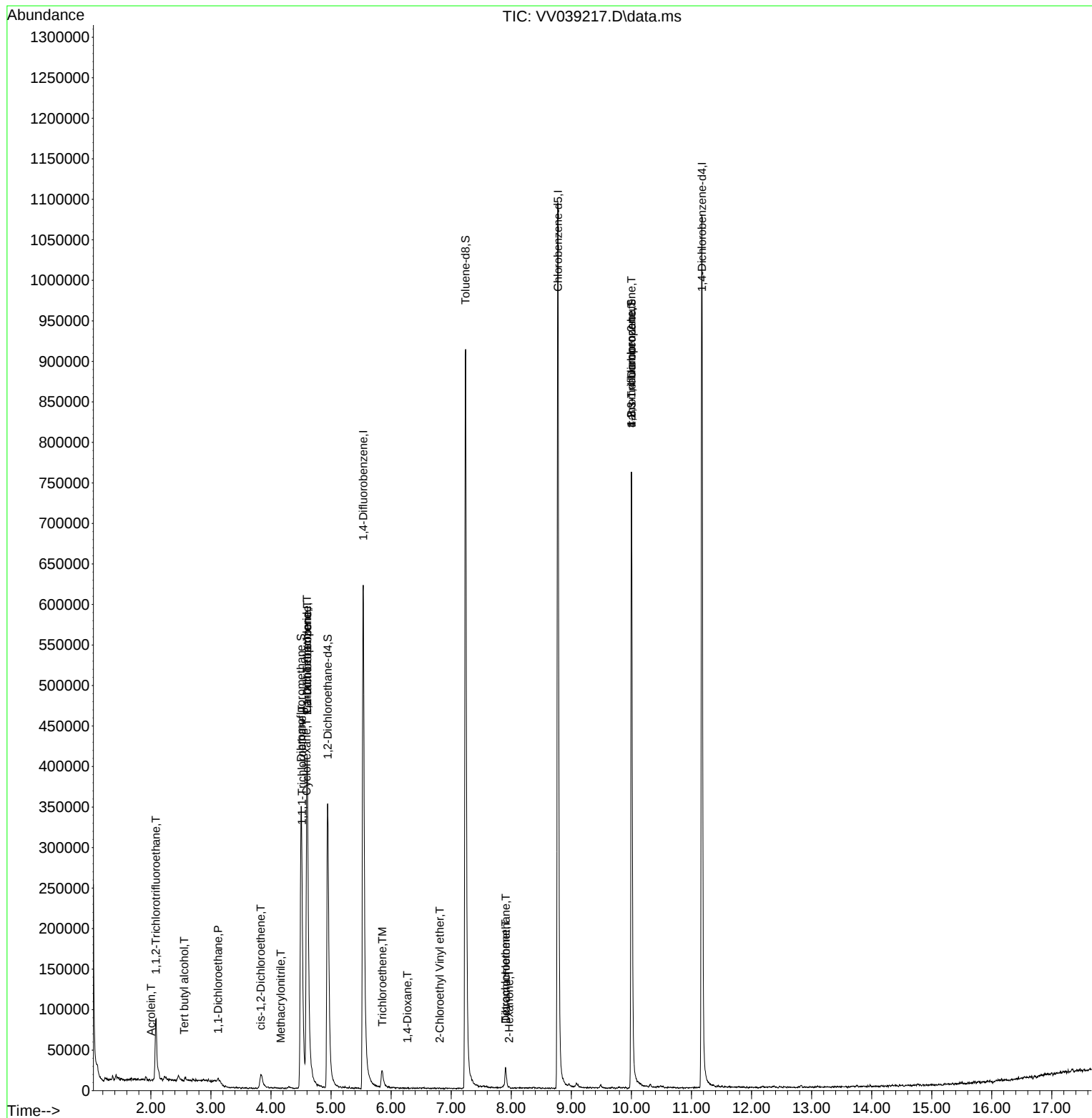
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	339546	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	617241	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.777	117	641272	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	293243	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	306687	62.408	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 124.820%#	
35) Dibromofluoromethane	4.503	113	290412	58.526	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 117.060%	
50) Toluene-d8	7.240	98	683404	46.893	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 93.780%	
62) 4-Bromofluorobenzene	10.002	95	255689	42.617	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 85.240%	
Target Compounds						Qvalue
6) Chloroethane	1.548	64	280	Below Cal	#	1
9) 1,1,2-Trichlorotrifluo...	2.085	101	33493	6.294	ug/l	99
11) Tert butyl alcohol	2.558	59	270	0.260	ug/l #	86
13) Acrolein	2.005	56	43	0.239	ug/l #	1
16) Acetone	2.127	43	7924	Below Cal		90
20) Methylene Chloride	2.462	84	3295	Below Cal	#	78
24) 1,1-Dichloroethane	3.121	63	3090	0.289	ug/l #	88
27) cis-1,2-Dichloroethene	3.831	96	3702	0.616	ug/l #	1
31) Cyclohexane	4.590	56	2759	0.315	ug/l #	30
32) 1,1,1-Trichloroethane	4.516	97	4466	0.462	ug/l #	52
36) 1,1-Dichloropropene	4.603	75	30002	3.999	ug/l #	45
38) Carbon Tetrachloride	4.600	117	36865	4.021	ug/l #	16
41) Methacrylonitrile	4.163	41	237	1.966	ug/l #	37
44) Trichloroethene	5.854	130	9552	1.694	ug/l	88
49) 1,4-Dioxane	6.272	88	47	0.518	ug/l #	61
58) 2-Chloroethyl Vinyl ether	6.809	63	69	9.638	ug/l #	47
59) 2-Hexanone	7.963	43	101	2.341	ug/l	90
60) Dibromochloromethane	7.908	129	6086	0.841	ug/l #	10
64) Tetrachloroethene	7.905	164	6243	1.162	ug/l	89
76) 1,2,3-Trichloropropane	10.002	75	128692	19.275	ug/l #	57
81) trans-1,4-Dichloro-2-b...	10.002	75	128692	46.273	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.345	75	71	Below Cal	#	5

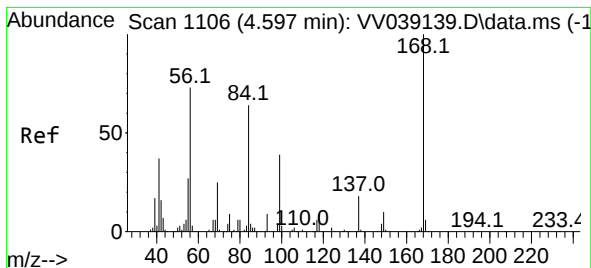
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.603 min Scan# 1106

Delta R.T. 0.006 min

Lab File: VV039217.D

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Instrument :

MSVOA_V

ClientSampleId :

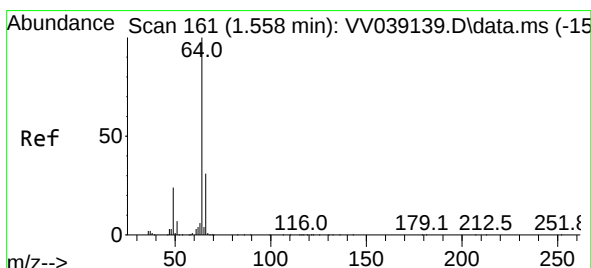
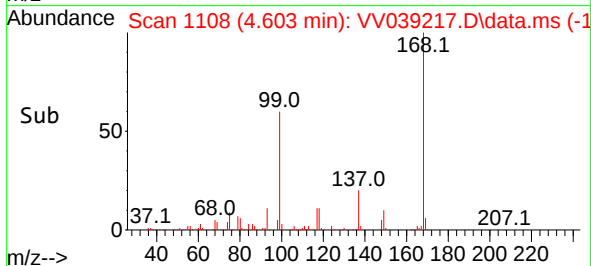
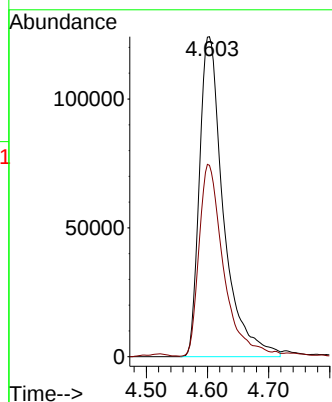
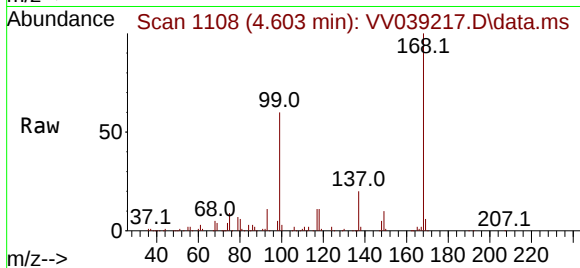
MW-32S-091725

Tgt Ion:168 Resp: 339546

Ion Ratio Lower Upper

168 100

99 59.6 49.6 74.4



#6

Chloroethane

Concen: Below Cal

RT: 1.548 min Scan# 158

Delta R.T. -0.010 min

Lab File: VV039217.D

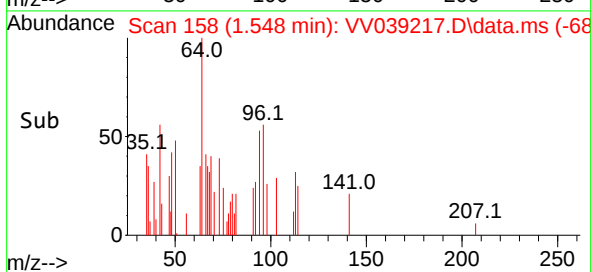
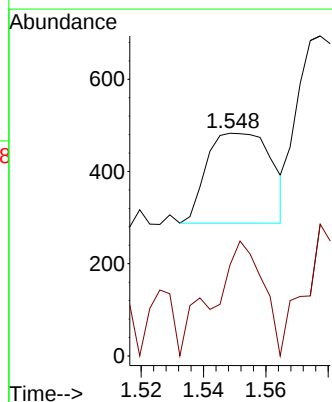
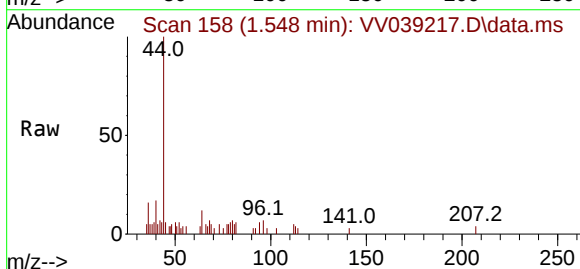
Acq: 26 Sep 2025 16:50

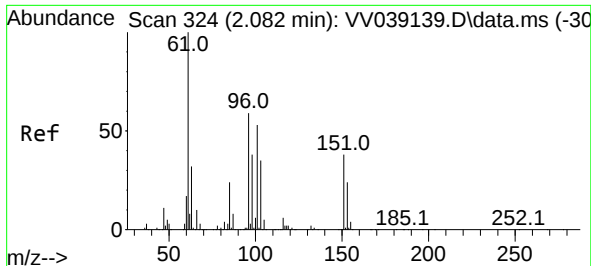
Tgt Ion: 64 Resp: 280

Ion Ratio Lower Upper

64 100

66 101.0 24.6 36.8#

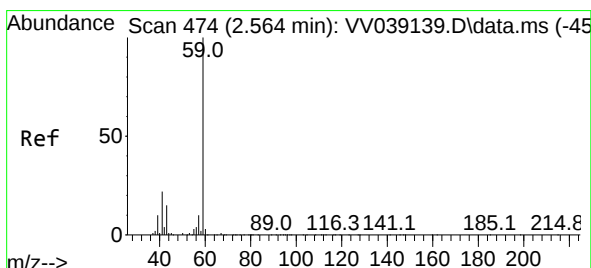
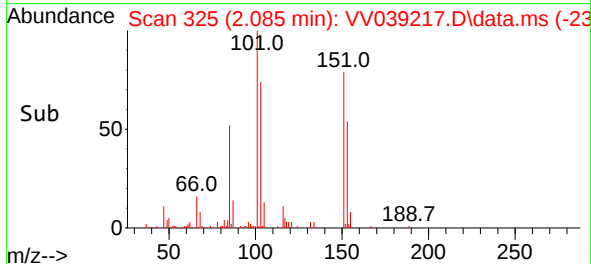
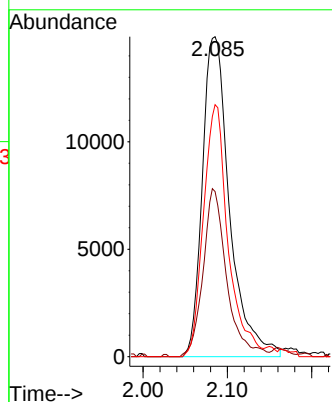
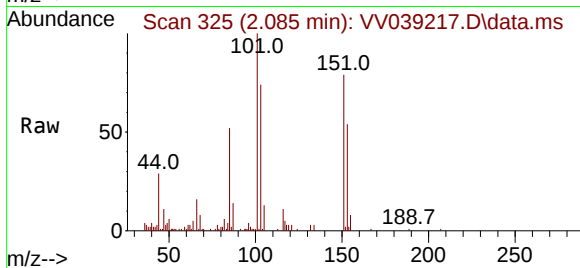




#9
1,1,2-Trichlorotrifluoroethane
Concen: 6.294 ug/l
RT: 2.085 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV039217.D
Acq: 26 Sep 2025 16:50

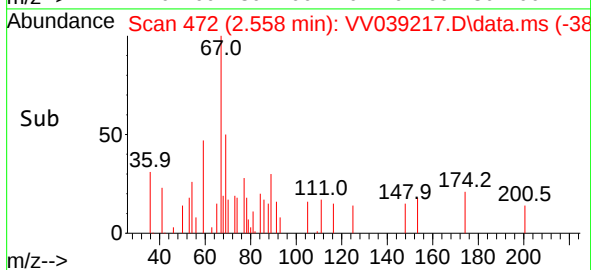
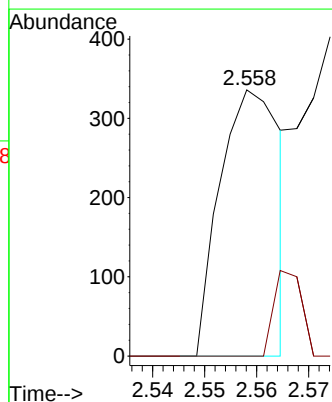
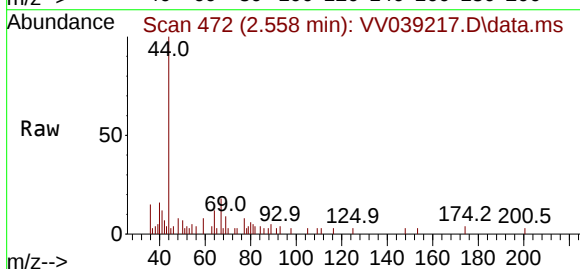
Instrument :
MSVOA_V
ClientSampleId :
MW-32S-091725

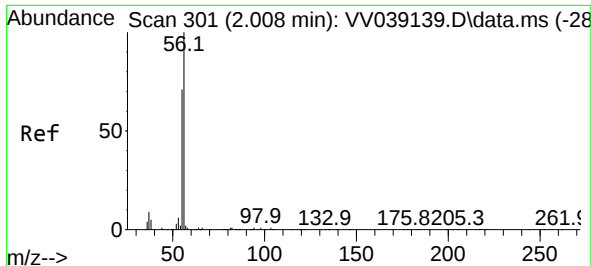
Tgt Ion:101 Resp: 33493
Ion Ratio Lower Upper
101 100
85 45.6 36.2 54.2
151 71.1 56.3 84.5



#11
Tert butyl alcohol
Concen: 0.260 ug/l
RT: 2.558 min Scan# 472
Delta R.T. -0.006 min
Lab File: VV039217.D
Acq: 26 Sep 2025 16:50

Tgt Ion: 59 Resp: 270
Ion Ratio Lower Upper
59 100
57 14.8 7.8 11.8#

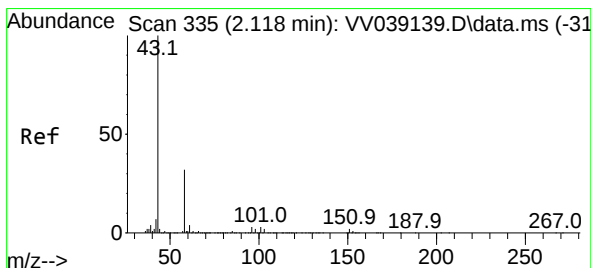
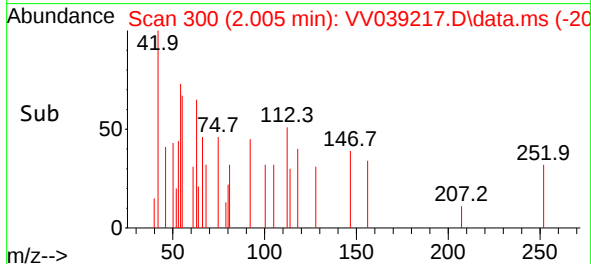
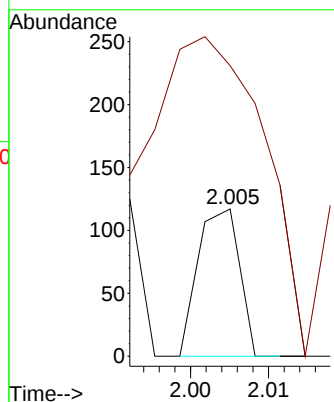
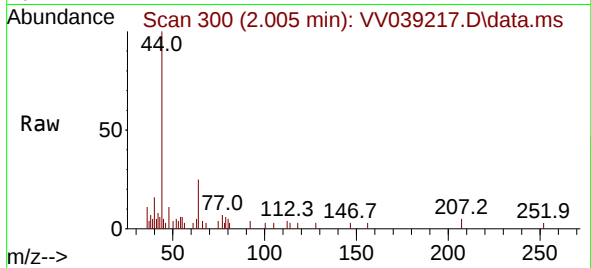




#13
Acrolein
Concen: 0.239 ug/l
RT: 2.005 min Scan# 301
Delta R.T. -0.003 min
Lab File: VV039217.D
Acq: 26 Sep 2025 16:50

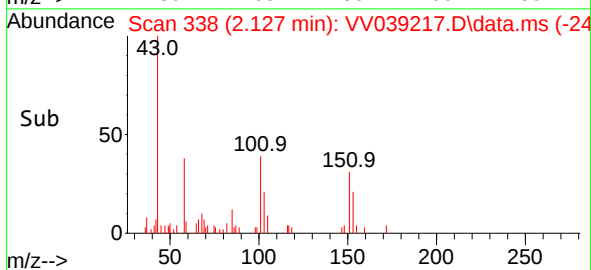
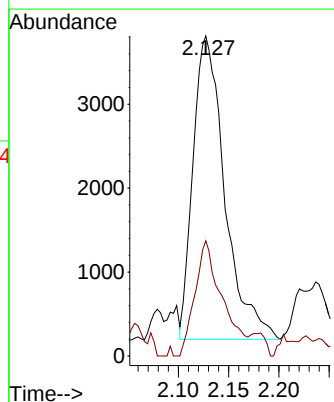
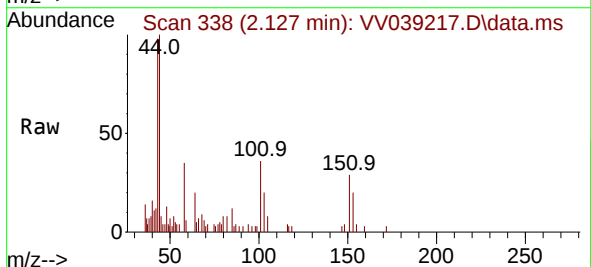
Instrument :
MSVOA_V
ClientSampleId :
MW-32S-091725

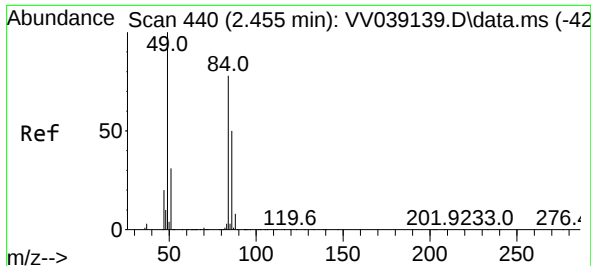
Tgt Ion: 56 Resp: 43
Ion Ratio Lower Upper
56 100
55 479.1 56.2 84.4#



#16
Acetone
Concen: Below Cal
RT: 2.127 min Scan# 338
Delta R.T. 0.009 min
Lab File: VV039217.D
Acq: 26 Sep 2025 16:50

Tgt Ion: 43 Resp: 7924
Ion Ratio Lower Upper
43 100
58 38.0 25.8 38.6

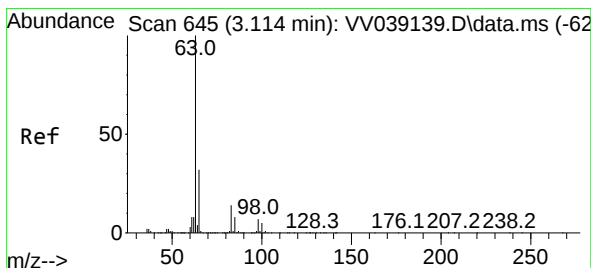
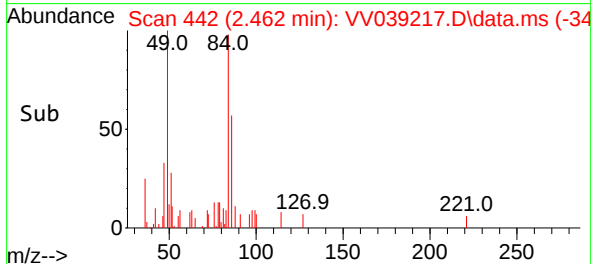
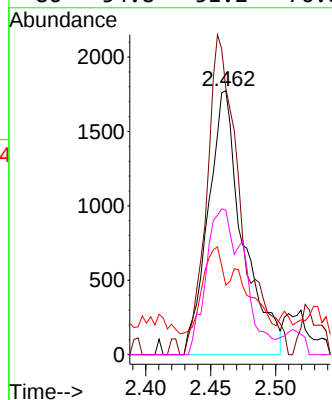
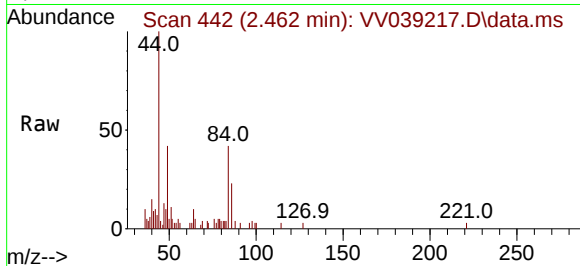




#20
Methylene Chloride
Concen: Below Cal
RT: 2.462 min Scan# 441
Delta R.T. 0.007 min
Lab File: VV039217.D
Acq: 26 Sep 2025 16:50

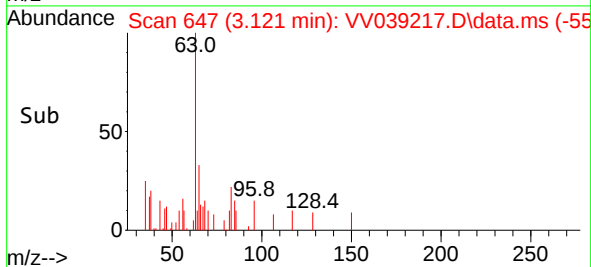
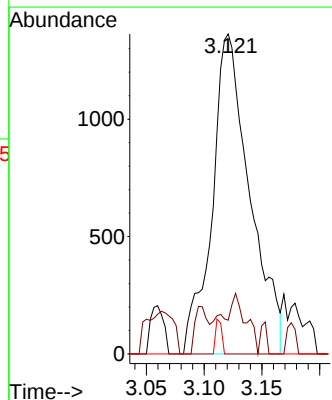
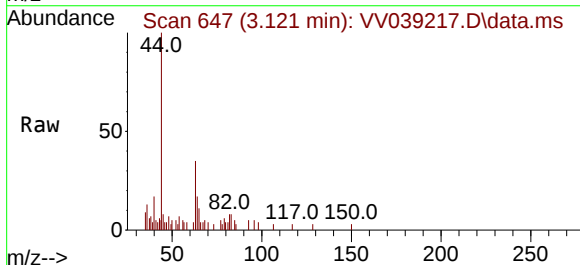
Instrument :
MSVOA_V
ClientSampleId :
MW-32S-091725

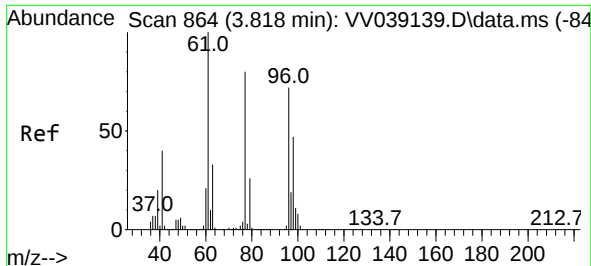
Tgt Ion:	84	Resp:	3295
Ion	Ratio	Lower	Upper
84	100		
49	101.1	102.8	154.2#
51	18.4	31.9	47.9#
86	54.8	51.2	76.8



#24
1,1-Dichloroethane
Concen: 0.289 ug/l
RT: 3.121 min Scan# 647
Delta R.T. 0.006 min
Lab File: VV039217.D
Acq: 26 Sep 2025 16:50

Tgt Ion:	63	Resp:	3090
Ion	Ratio	Lower	Upper
63	100		
98	10.6	3.4	10.2#
100	0.0	2.2	6.6#

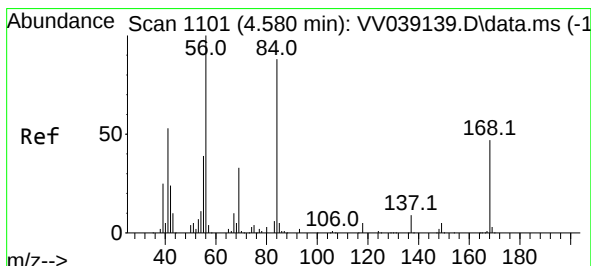
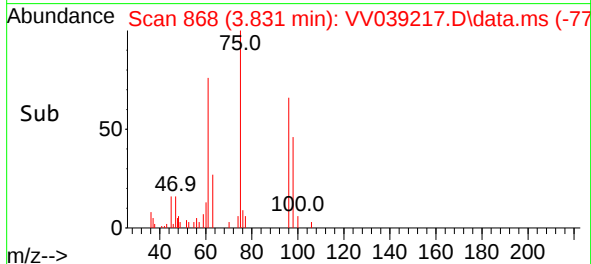
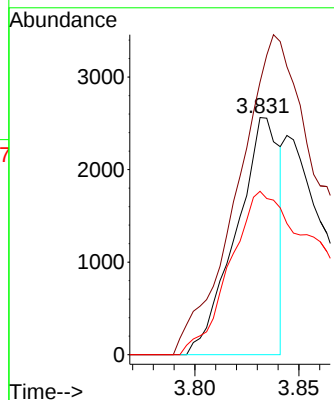
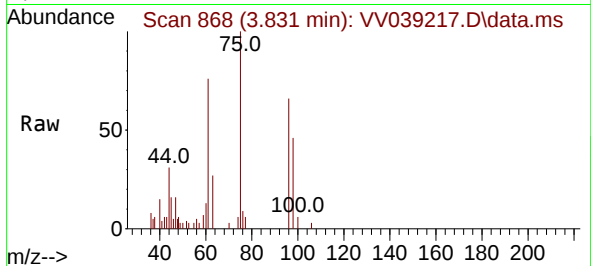




#27
 cis-1,2-Dichloroethene
 Concen: 0.616 ug/l
 RT: 3.831 min Scan# 80
 Delta R.T. 0.013 min
 Lab File: VV039217.D
 Acq: 26 Sep 2025 16:50

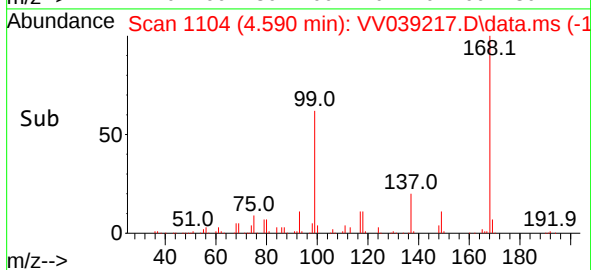
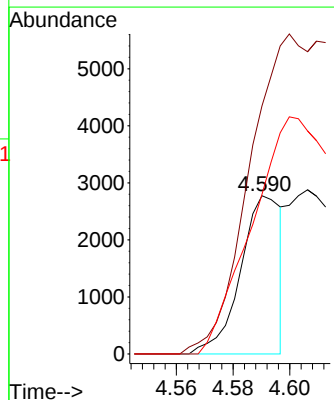
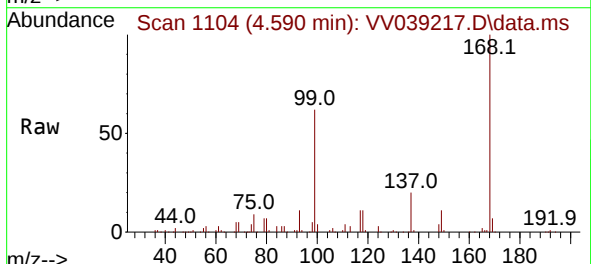
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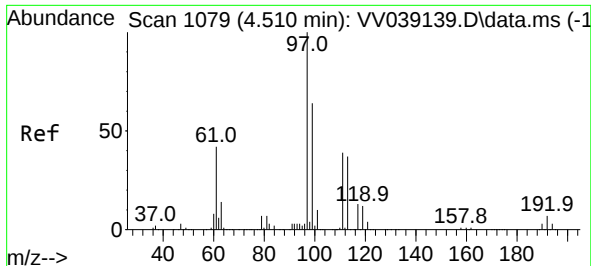
Tgt Ion: 96 Resp: 3702
 Ion Ratio Lower Upper
 96 100
 61 287.9 0.0 286.4#
 98 145.6 0.0 126.6#



#31
 Cyclohexane
 Concen: 0.315 ug/l
 RT: 4.590 min Scan# 1104
 Delta R.T. 0.010 min
 Lab File: VV039217.D
 Acq: 26 Sep 2025 16:50

Tgt Ion: 56 Resp: 2759
 Ion Ratio Lower Upper
 56 100
 69 156.6 26.2 39.2#
 84 100.8 70.3 105.5





#32

1,1,1-Trichloroethane

Concen: 0.462 ug/l

RT: 4.516 min Scan# 1079

Delta R.T. 0.007 min

Lab File: VV039217.D

Acq: 26 Sep 2025 16:50

Instrument :

MSVOA_V

ClientSampleId :

MW-32S-091725

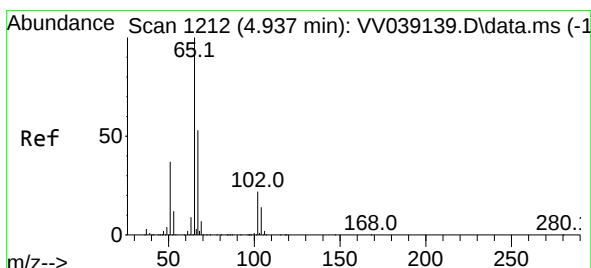
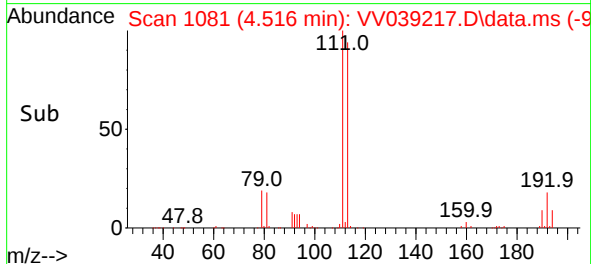
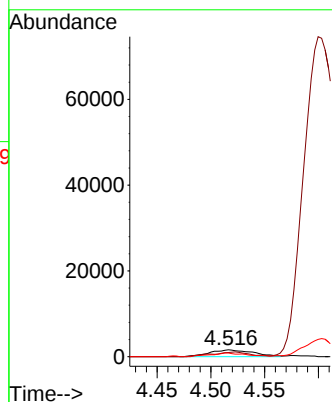
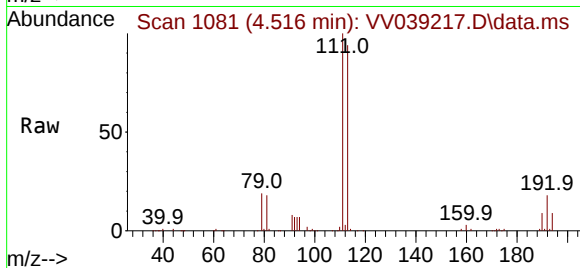
Tgt Ion: 97 Resp: 4466

Ion Ratio Lower Upper

97 100

99 0.0 49.6 74.4#

61 44.0 34.5 51.7



#33

1,2-Dichloroethane-d4

Concen: 62.408 ug/l

RT: 4.944 min Scan# 1214

Delta R.T. 0.006 min

Lab File: VV039217.D

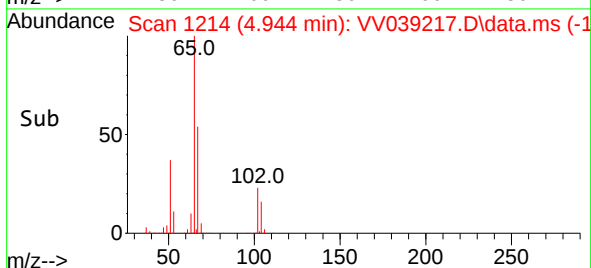
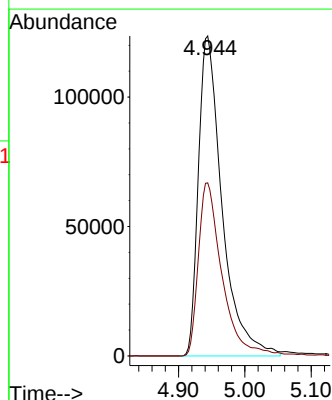
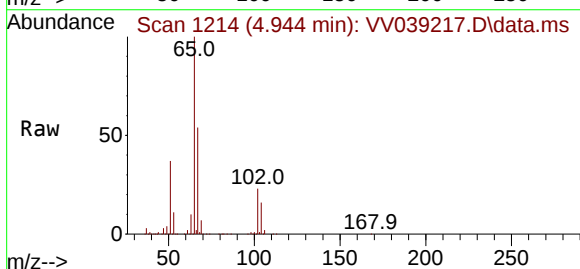
Acq: 26 Sep 2025 16:50

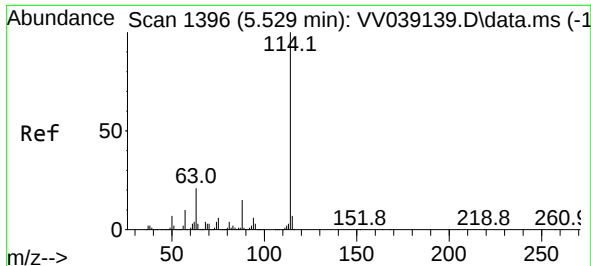
Tgt Ion: 65 Resp: 306687

Ion Ratio Lower Upper

65 100

67 54.2 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039217.D

Acq: 26 Sep 2025 16:50

Instrument :

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MW-32S-091725

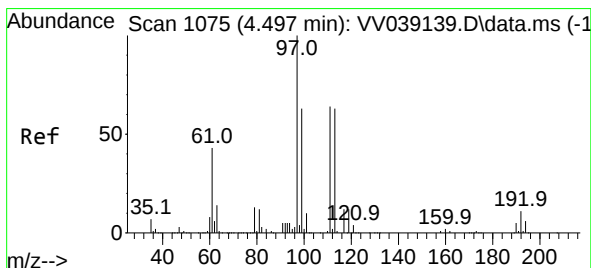
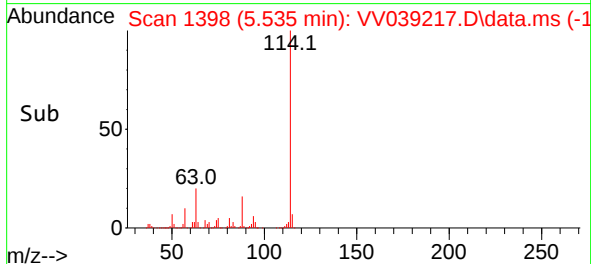
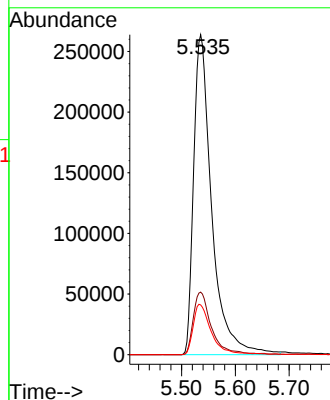
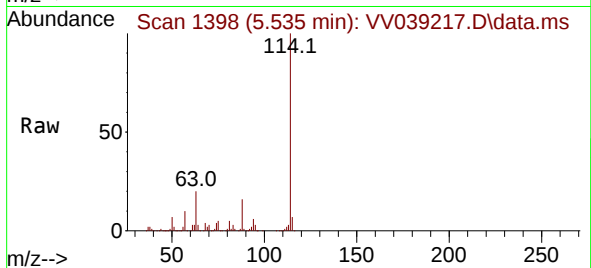
Tgt Ion:114 Resp: 617241

Ion Ratio Lower Upper

114 100

63 19.5 0.0 42.6

88 15.6 0.0 30.8



#35

Dibromofluoromethane

Concen: 58.526 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039217.D

Acq: 26 Sep 2025 16:50

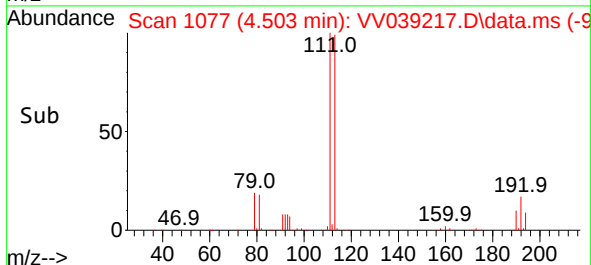
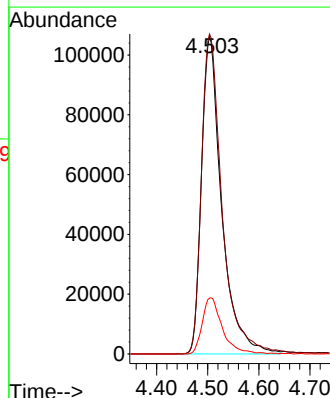
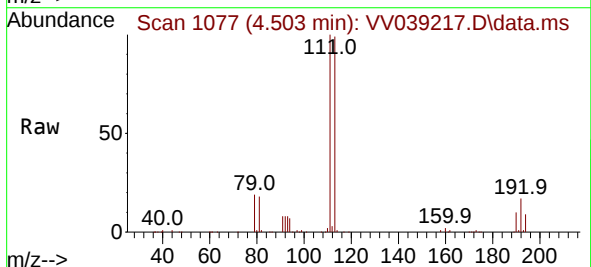
Tgt Ion:113 Resp: 290412

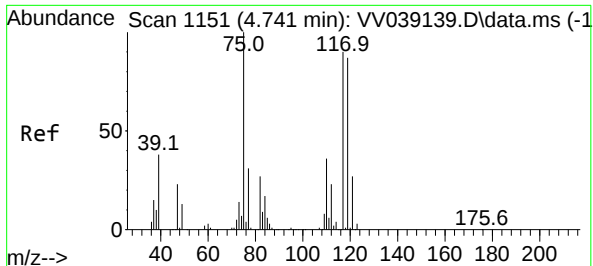
Ion Ratio Lower Upper

113 100

111 102.5 82.4 123.6

192 17.5 13.8 20.8





#36

1,1-Dichloropropene

Concen: 3.999 ug/l

RT: 4.603 min Scan# 1108

Delta R.T. -0.138 min

Lab File: VV039217.D

Acq: 26 Sep 2025 16:50

Instrument :

MSVOA_V

ClientSampleId :

MW-32S-091725

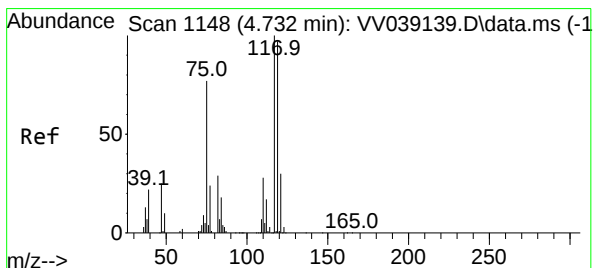
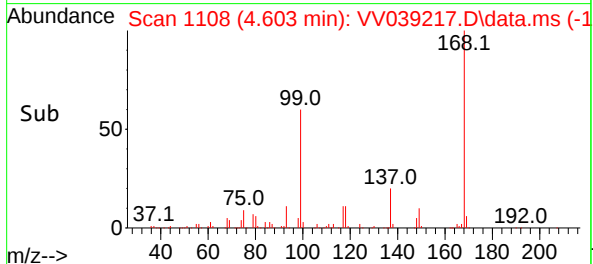
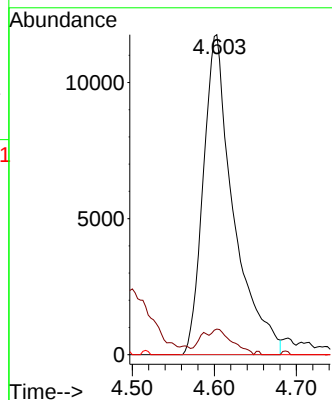
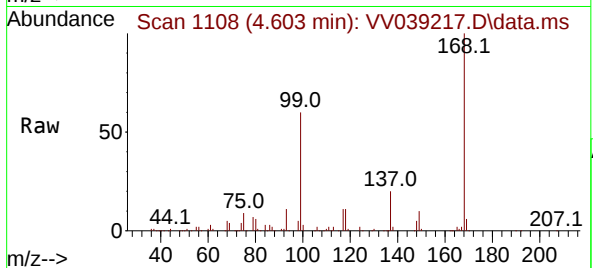
Tgt Ion: 75 Resp: 30002

Ion Ratio Lower Upper

75 100

110 4.9 18.1 54.1#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 4.021 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. -0.132 min

Lab File: VV039217.D

Acq: 26 Sep 2025 16:50

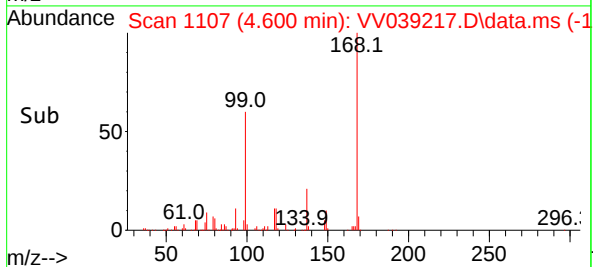
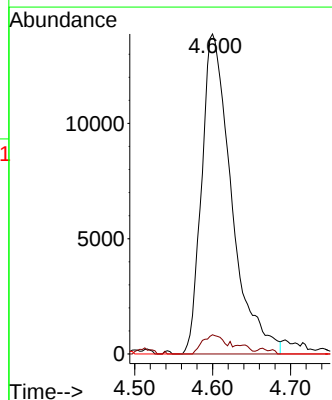
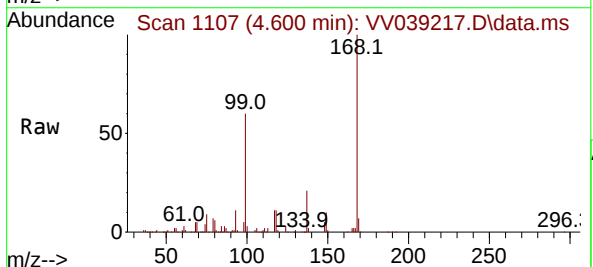
Tgt Ion: 117 Resp: 36865

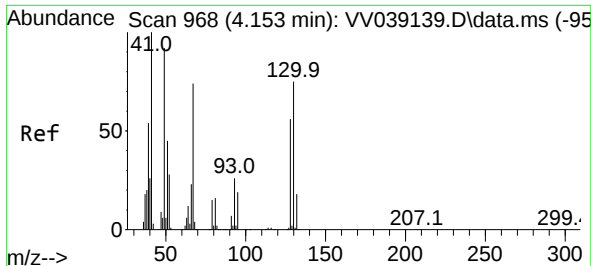
Ion Ratio Lower Upper

117 100

119 6.0 77.2 115.8#

121 0.0 24.2 36.2#

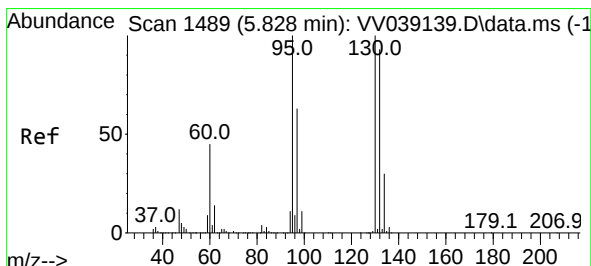
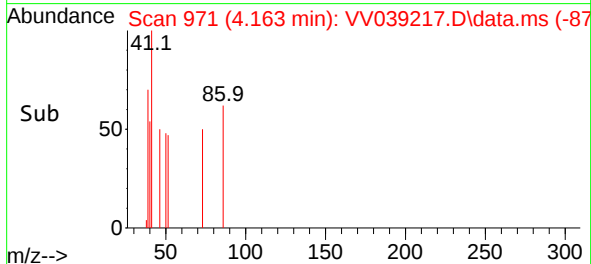
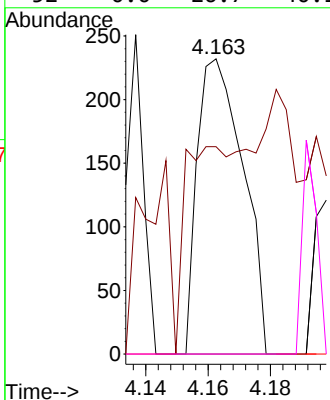
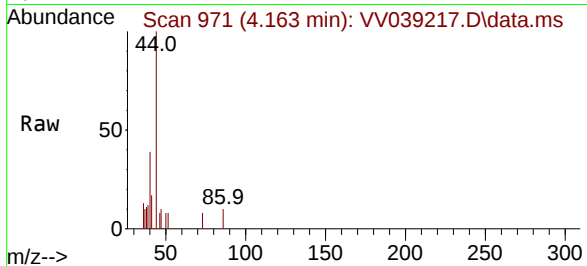




#41
Methacrylonitrile
Concen: 1.966 ug/l
RT: 4.163 min Scan# 91
Delta R.T. 0.010 min
Lab File: VV039217.D
Acq: 26 Sep 2025 16:50

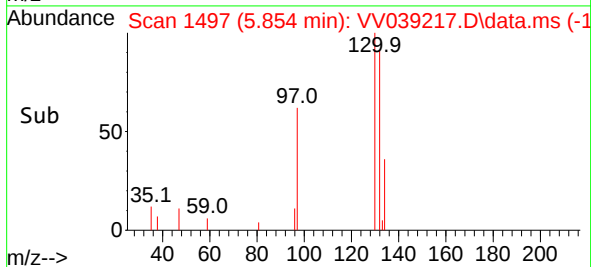
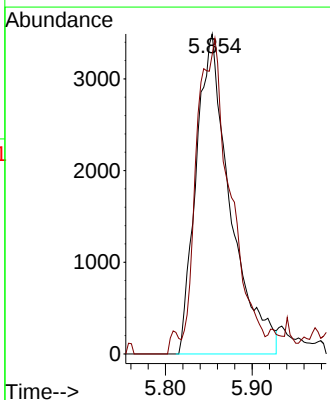
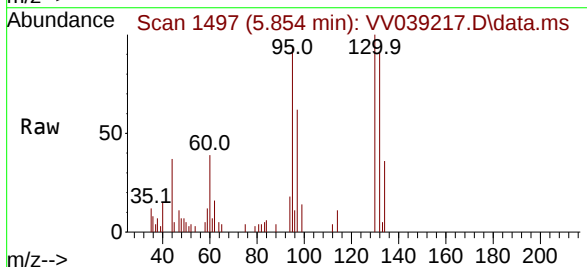
Instrument :
MSVOA_V
ClientSampleId :
MW-32S-091725

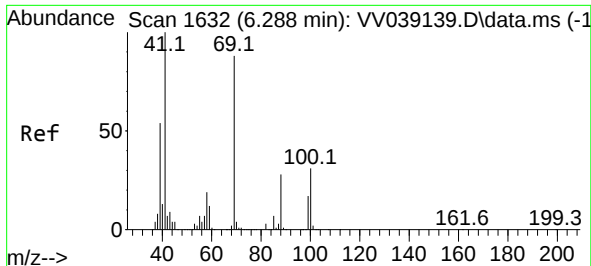
Tgt Ion: 41 Resp: 237
Ion Ratio Lower Upper
41 100
39 64.6 42.2 63.2#
67 0.0 67.9 101.9#
52 0.0 26.7 40.1#



#44
Trichloroethene
Concen: 1.694 ug/l
RT: 5.854 min Scan# 1497
Delta R.T. 0.026 min
Lab File: VV039217.D
Acq: 26 Sep 2025 16:50

Tgt Ion:130 Resp: 9552
Ion Ratio Lower Upper
130 100
95 87.5 0.0 199.2





#49

1,4-Dioxane

Concen: 0.518 ug/l

RT: 6.272 min Scan# 1

Delta R.T. -0.016 min

Lab File: VV039217.D

Acq: 26 Sep 2025 16:50

Instrument :

MSVOA_V

ClientSampleId :

MW-32S-091725

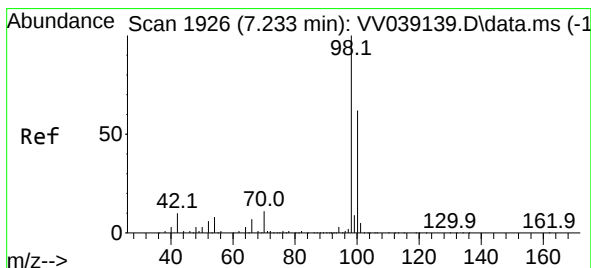
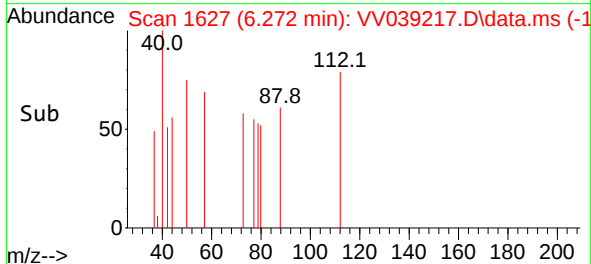
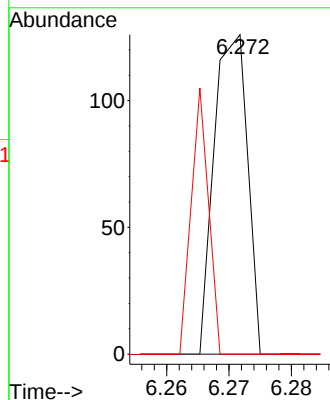
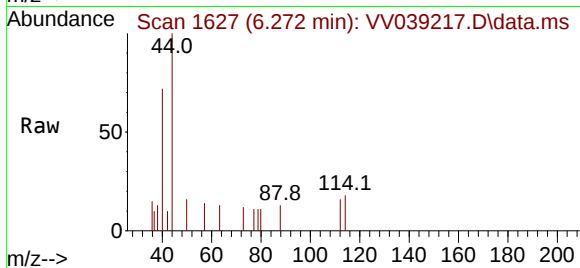
Tgt Ion: 88 Resp: 47

Ion Ratio Lower Upper

88 100

43 0.0 25.1 37.7#

58 42.6 53.6 80.4#



#50

Toluene-d8

Concen: 46.893 ug/l

RT: 7.240 min Scan# 1928

Delta R.T. 0.007 min

Lab File: VV039217.D

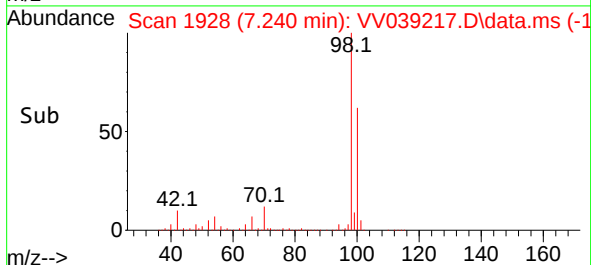
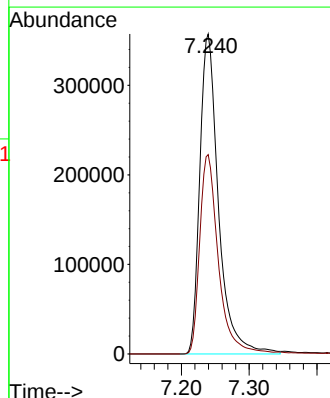
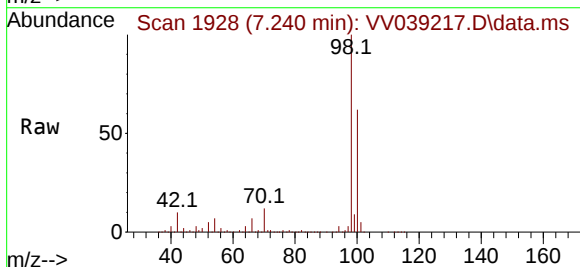
Acq: 26 Sep 2025 16:50

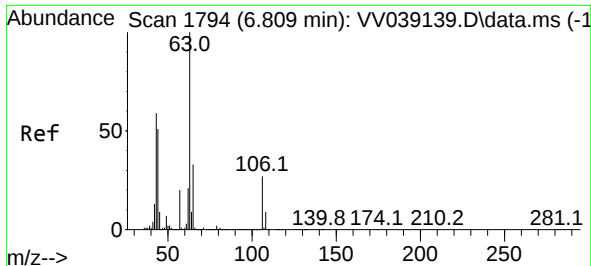
Tgt Ion: 98 Resp: 683404

Ion Ratio Lower Upper

98 100

100 62.2 52.2 78.2

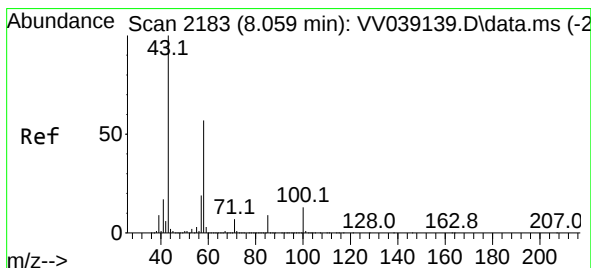
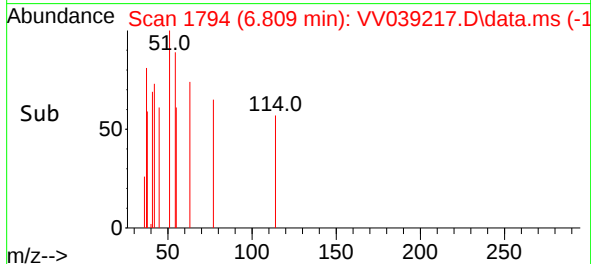
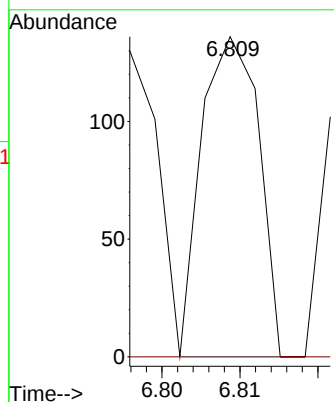
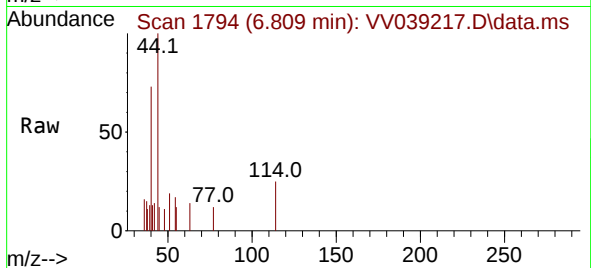




#58
2-Chloroethyl Vinyl ether
Concen: 9.638 ug/l
RT: 6.809 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039217.D
Acq: 26 Sep 2025 16:50

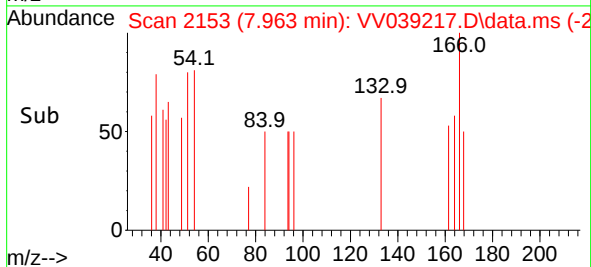
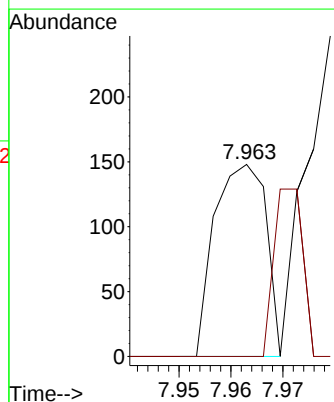
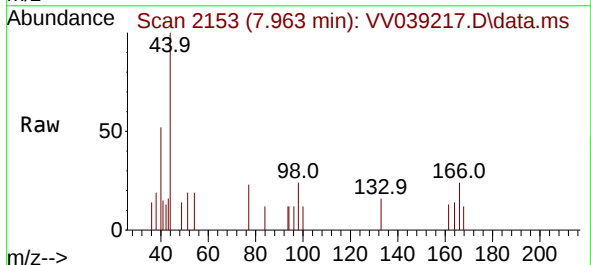
Instrument :
MSVOA_V
ClientSampleId :
MW-32S-091725

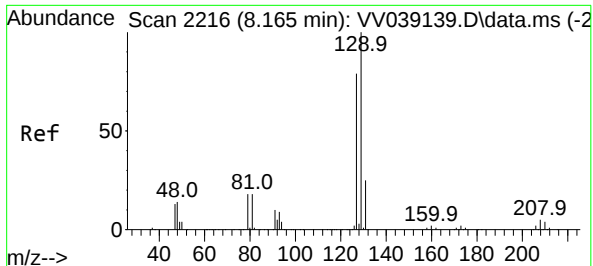
Tgt Ion: 63 Resp: 69
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#



#59
2-Hexanone
Concen: 2.341 ug/l
RT: 7.963 min Scan# 2153
Delta R.T. -0.096 min
Lab File: VV039217.D
Acq: 26 Sep 2025 16:50

Tgt Ion: 43 Resp: 101
Ion Ratio Lower Upper
43 100
58 49.5 28.3 85.0

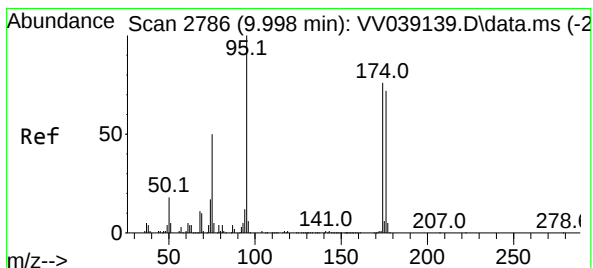
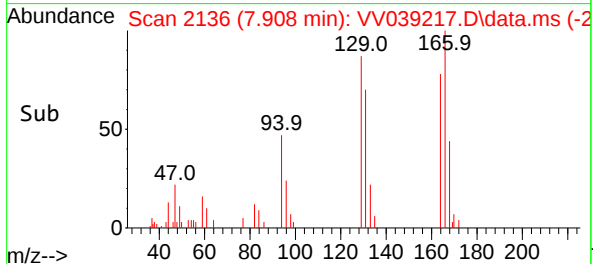
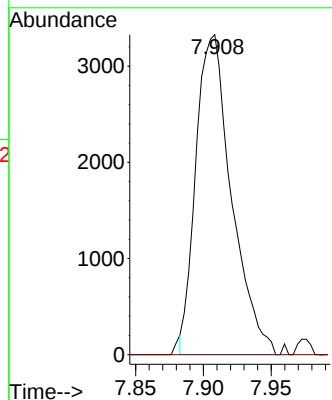
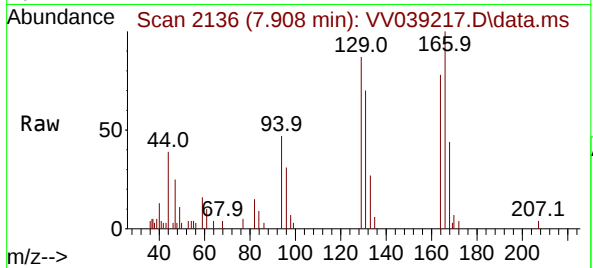




#60
Dibromochloromethane
Concen: 0.841 ug/l
RT: 7.908 min Scan# 2136
Delta R.T. -0.257 min
Lab File: VV039217.D
Acq: 26 Sep 2025 16:50

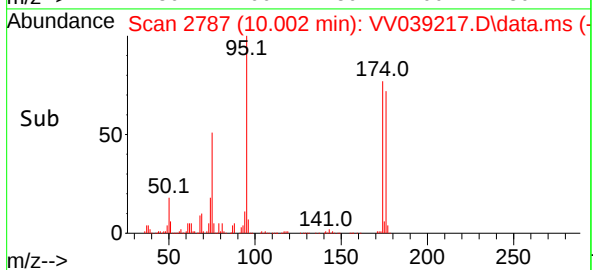
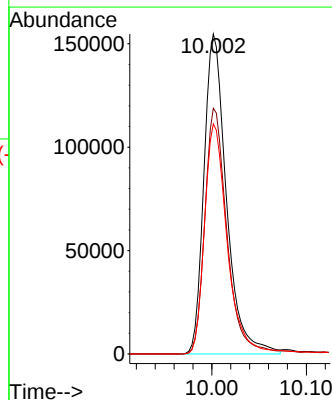
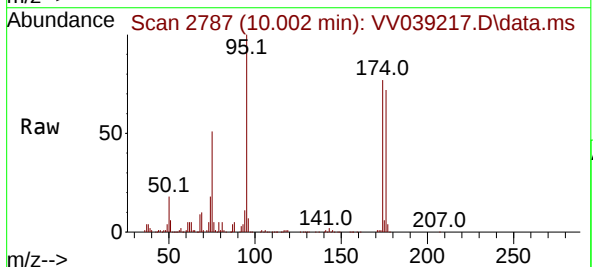
Instrument :
MSVOA_V
ClientSampleId :
MW-32S-091725

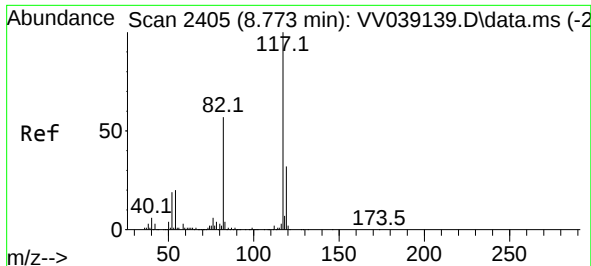
Tgt Ion:129 Resp: 6086
Ion Ratio Lower Upper
129 100
127 0.0 39.3 117.9#



#62
4-Bromofluorobenzene
Concen: 42.617 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039217.D
Acq: 26 Sep 2025 16:50

Tgt Ion: 95 Resp: 255689
Ion Ratio Lower Upper
95 100
174 75.3 0.0 150.4
176 73.3 0.0 144.2

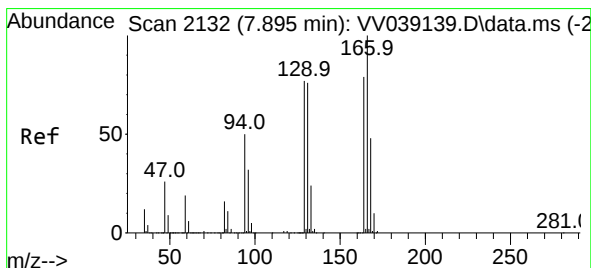
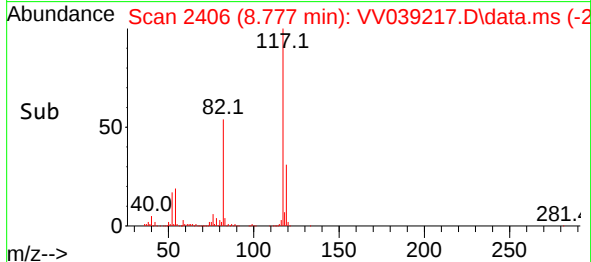
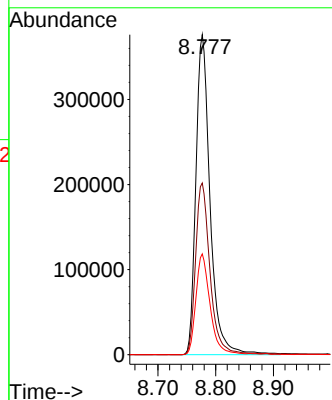
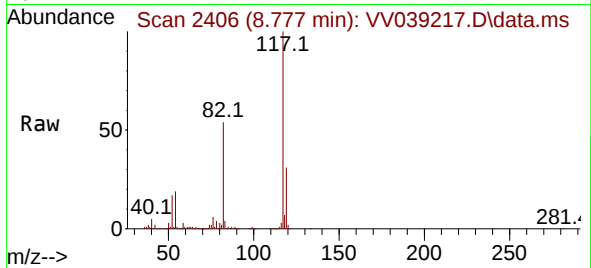




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.777 min Scan# 2405
Delta R.T. 0.004 min
Lab File: VV039217.D
Acq: 26 Sep 2025 16:50

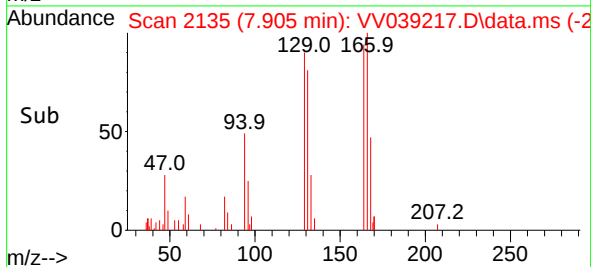
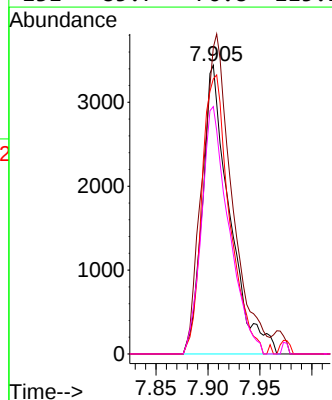
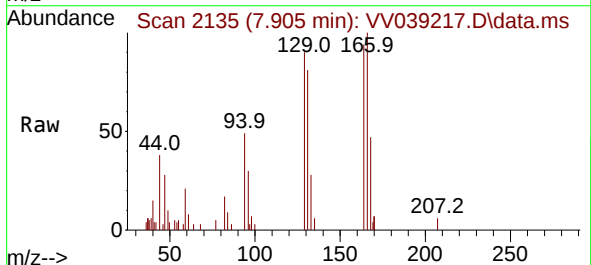
Instrument :
MSVOA_V
ClientSampleId :
MW-32S-091725

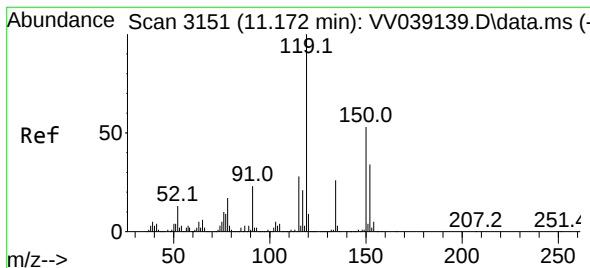
Tgt Ion:117 Resp: 641272
Ion Ratio Lower Upper
117 100
82 53.7 45.4 68.2
119 31.5 25.6 38.4



#64
Tetrachloroethene
Concen: 1.162 ug/l
RT: 7.905 min Scan# 2135
Delta R.T. 0.010 min
Lab File: VV039217.D
Acq: 26 Sep 2025 16:50

Tgt Ion:164 Resp: 6243
Ion Ratio Lower Upper
164 100
166 106.1 101.6 152.4
129 95.3 78.5 117.7
131 85.7 76.8 115.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 3151

Delta R.T. 0.003 min

Lab File: VV039217.D

Acq: 26 Sep 2025 16:50

Instrument :

MSVOA_V

ClientSampleId :

MW-32S-091725

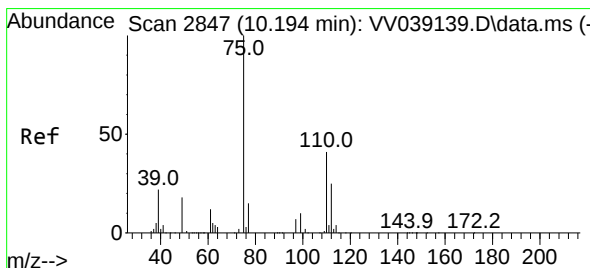
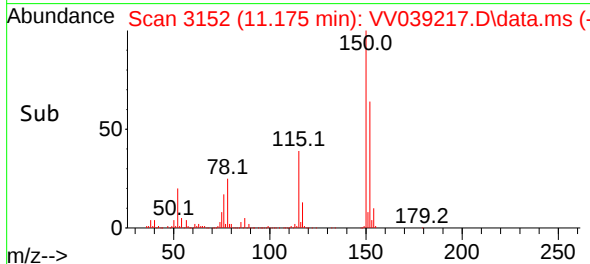
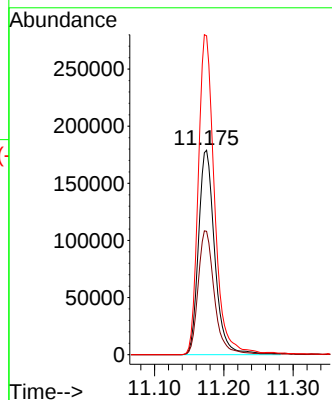
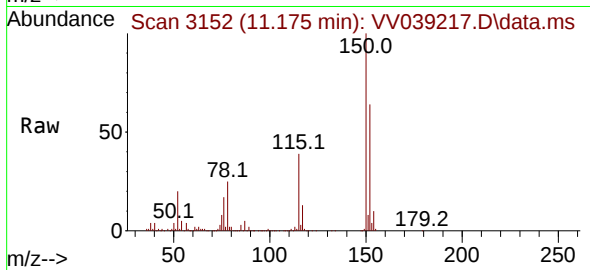
Tgt Ion:152 Resp: 293243

Ion Ratio Lower Upper

152 100

115 60.7 44.8 134.4

150 155.6 0.0 353.8



#76

1,2,3-Trichloropropane

Concen: 19.275 ug/l

RT: 10.002 min Scan# 2787

Delta R.T. -0.193 min

Lab File: VV039217.D

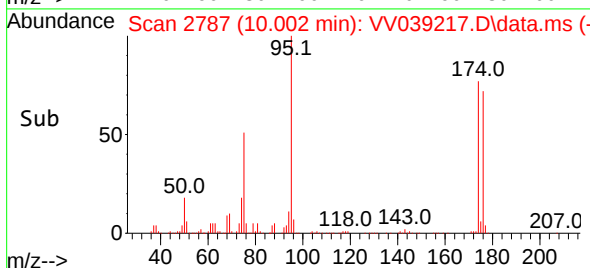
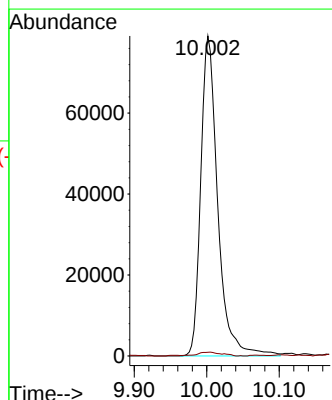
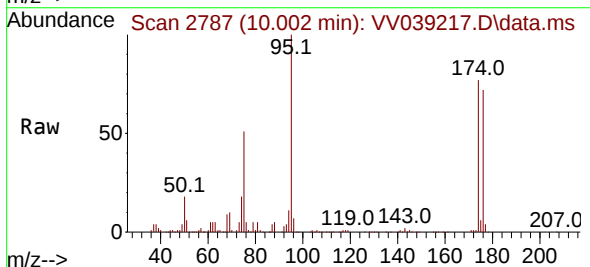
Acq: 26 Sep 2025 16:50

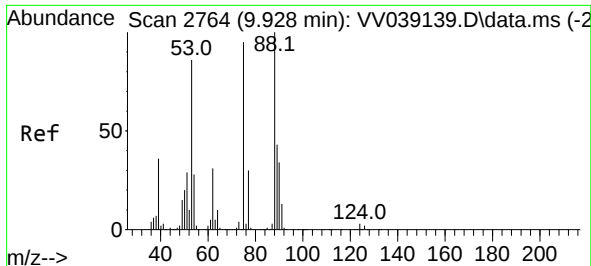
Tgt Ion: 75 Resp: 128692

Ion Ratio Lower Upper

75 100

77 1.7 11.3 33.8#

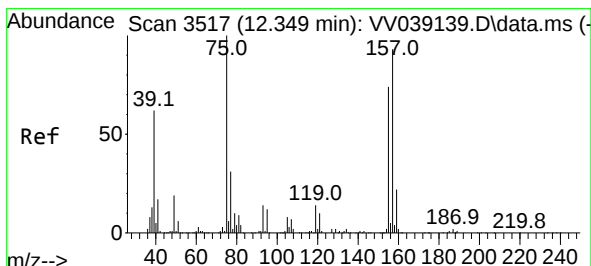
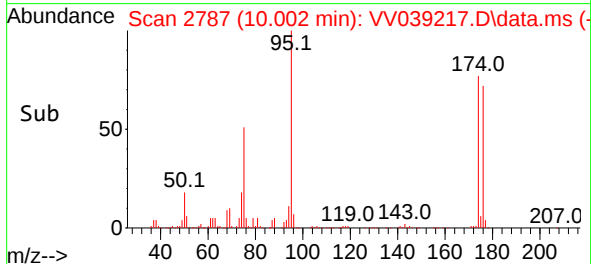
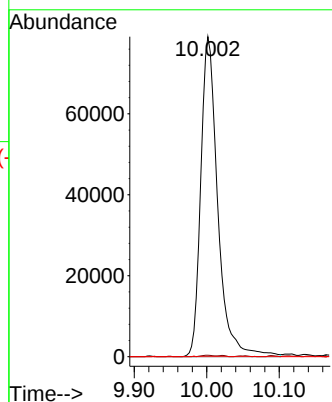
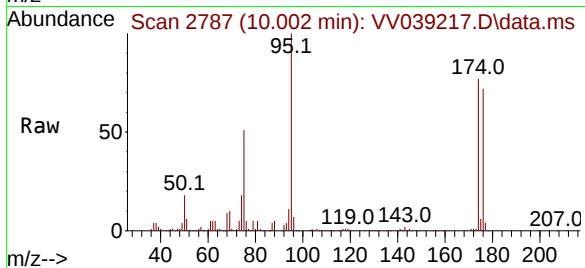




#81
trans-1,4-Dichloro-2-butene
Concen: 46.273 ug/l
RT: 10.002 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039217.D
Acq: 26 Sep 2025 16:50

Instrument :
MSVOA_V
ClientSampleId :
MW-32S-091725

Tgt Ion: 75 Resp: 128692
Ion Ratio Lower Upper
75 100
53 0.3 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# 3516
Delta R.T. -0.004 min
Lab File: VV039217.D
Acq: 26 Sep 2025 16:50

Tgt Ion: 75 Resp: 71
Ion Ratio Lower Upper
75 100
155 0.0 38.6 115.8#
157 0.0 49.5 148.3#

