

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061325\
 Data File : VN087012.D
 Acq On : 13 Jun 2025 19:07
 Operator : JC\MD
 Sample : Q2268-07DL 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-6-20250605DL

Quant Time: Jun 14 00:34:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.235	168	285623	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	563185	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	499925	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	240672	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	199192	52.088	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 104.180%	
35) Dibromofluoromethane	8.177	113	168484	50.481	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.960%	
50) Toluene-d8	10.570	98	692719	52.429	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 104.860%	
62) 4-Bromofluorobenzene	12.847	95	248025	50.526	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 101.060%	

Target Compounds					Qvalue	
16) Acetone	4.459	43	2707	1.335	ug/l #	88
18) Methyl Acetate	5.312	43	2396	0.405	ug/l #	49
19) Methyl tert-butyl Ether	5.818	73	8711	0.757	ug/l #	13
20) Methylene Chloride	5.306	84	899	0.237	ug/l #	66
25) 2-Butanone	7.506	43	881	0.267	ug/l #	46
31) Cyclohexane	8.229	56	10102	1.629	ug/l #	1
36) 1,1-Dichloropropene	8.235	75	21960	4.416	ug/l #	49
38) Carbon Tetrachloride	8.229	117	28340	5.804	ug/l #	17
39) Methylcyclohexane	9.606	83	6356	0.933	ug/l	93
40) Benzene	8.618	78	259118	15.933	ug/l	99
48) Methyl methacrylate	9.606	41	2277	0.487	ug/l #	54
51) 4-Methyl-2-Pentanone	10.406	43	3654	0.597	ug/l #	33
52) Toluene	10.635	92	81595	8.210	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	1402	0.367	ug/l #	14
67) Ethyl Benzene	11.964	91	337251	17.757	ug/l	98
68) m/p-Xylenes	12.070	106	537145	73.883	ug/l	99
69) o-Xylene	12.400	106	191921	27.563	ug/l	99
70) Styrene	12.400	104	10646	0.894	ug/l #	1
73) Isopropylbenzene	12.694	105	14173	0.808	ug/l	99
76) 1,2,3-Trichloropropane	12.847	75	115177	20.133	ug/l #	1
78) n-propylbenzene	13.035	91	22893	1.074	ug/l	99
79) 2-Chlorotoluene	13.094	91	20889	1.635	ug/l #	42
80) 1,3,5-Trimethylbenzene	13.170	105	51885	3.584	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.847	75	115177	46.345	ug/l #	16
82) 4-Chlorotoluene	13.170	91	5678	0.439	ug/l #	41
83) tert-Butylbenzene	13.482	119	31724	2.394	ug/l #	71
84) 1,2,4-Trimethylbenzene	13.482	105	250344	17.246	ug/l	98
85) sec-Butylbenzene	13.482	105	250344	13.010	ug/l #	56
90) Hexachloroethane	14.329	117	1861	0.690	ug/l #	17
95) Naphthalene	15.641	128	58250	3.224	ug/l	99

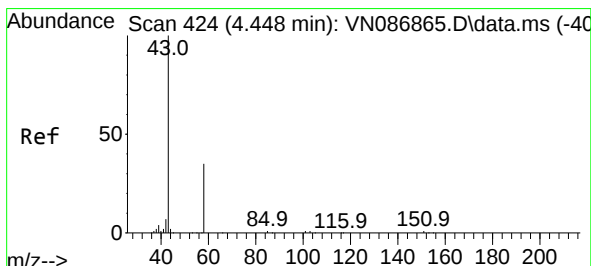
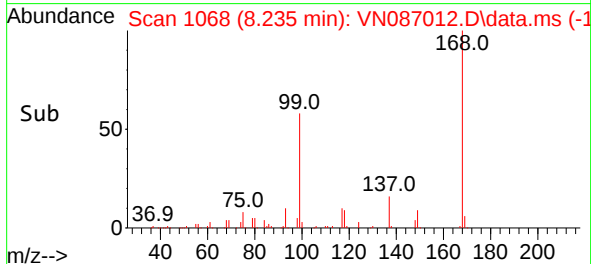
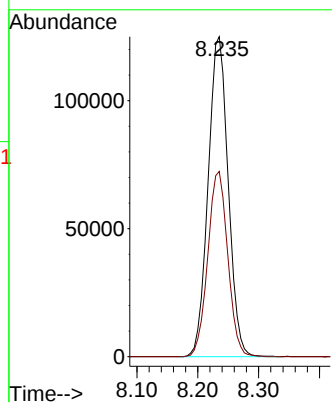
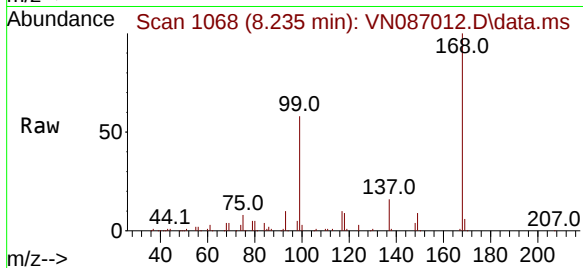
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

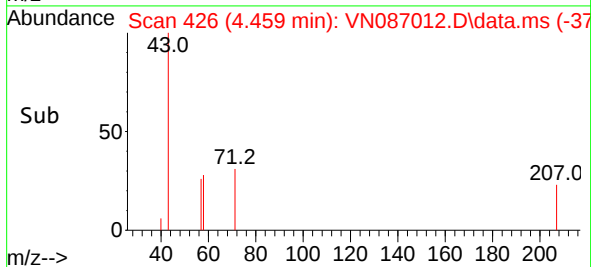
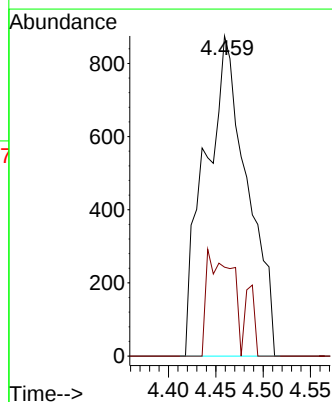
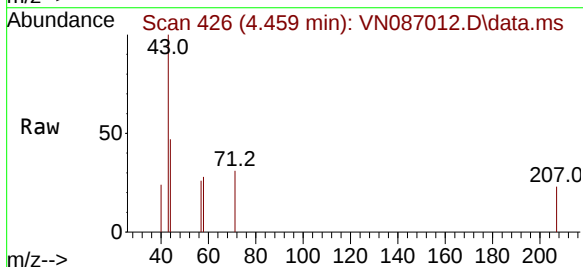
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605DL

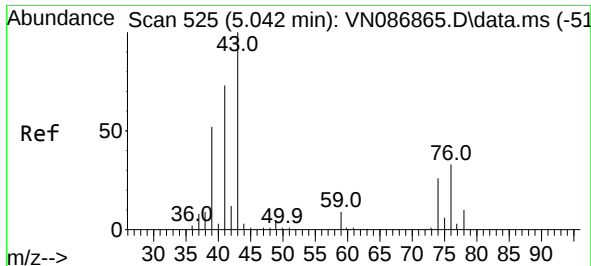
Tgt Ion:168 Resp: 285623
Ion Ratio Lower Upper
168 100
99 57.9 49.1 73.7



#16
Acetone
Concen: 1.335 ug/l
RT: 4.459 min Scan# 426
Delta R.T. 0.011 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

Tgt Ion: 43 Resp: 2707
Ion Ratio Lower Upper
43 100
58 27.8 28.0 42.0#

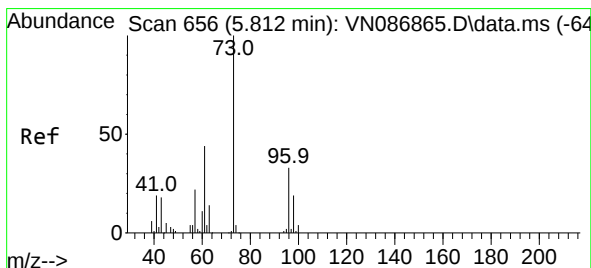
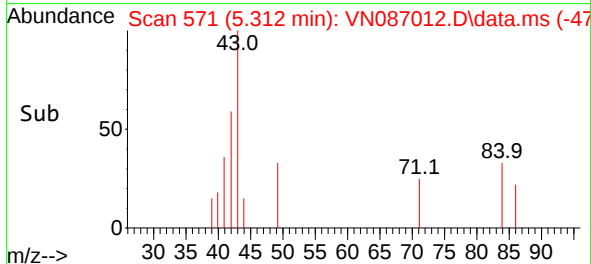
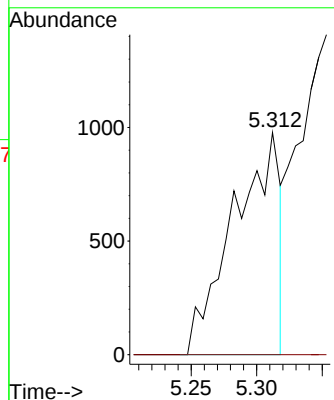
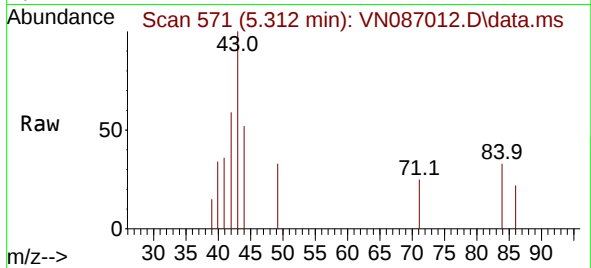




#18
Methyl Acetate
Concen: 0.405 ug/l
RT: 5.312 min Scan# 51
Delta R.T. 0.270 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

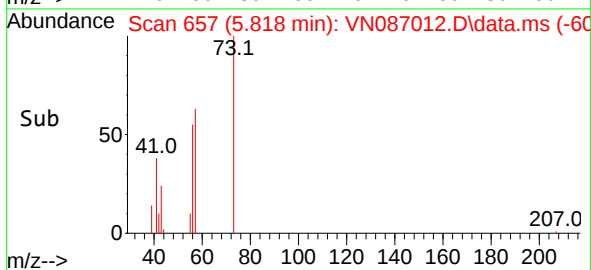
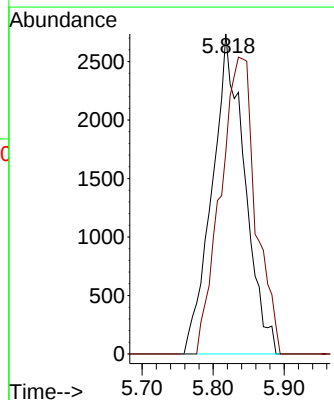
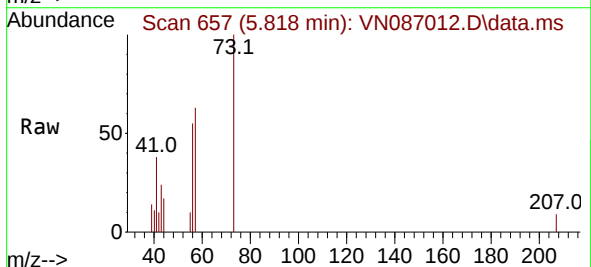
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605DL

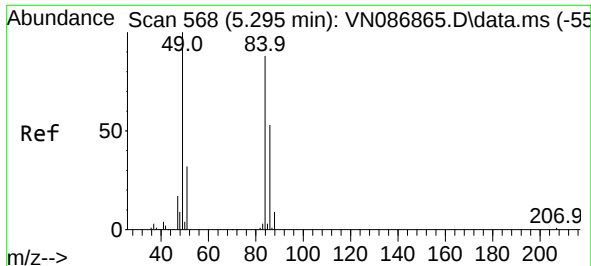
Tgt Ion: 43 Resp: 2396
Ion Ratio Lower Upper
43 100
74 0.0 20.7 31.1#



#19
Methyl tert-butyl Ether
Concen: 0.757 ug/l
RT: 5.818 min Scan# 657
Delta R.T. 0.006 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

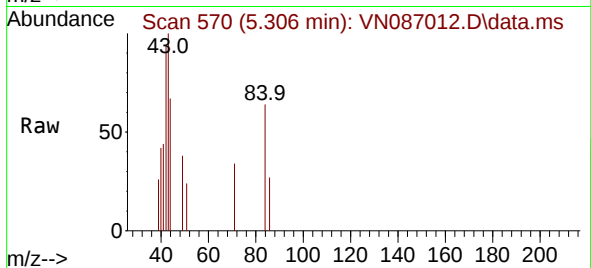
Tgt Ion: 73 Resp: 8711
Ion Ratio Lower Upper
73 100
57 63.1 17.4 26.2#



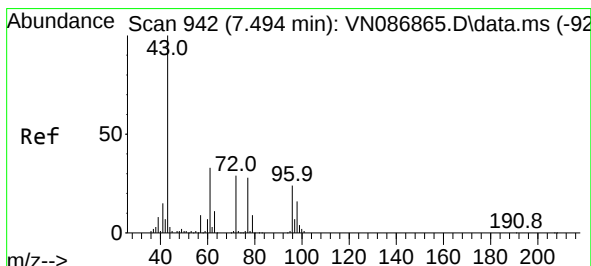
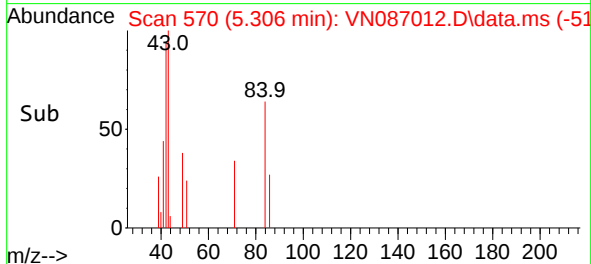
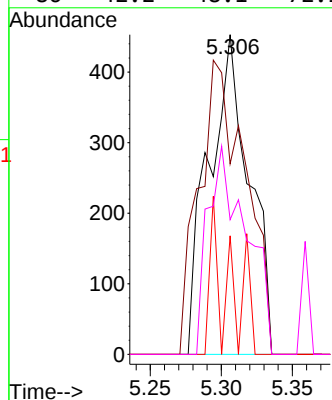


#20
Methylene Chloride
Concen: 0.237 ug/l
RT: 5.306 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605DL

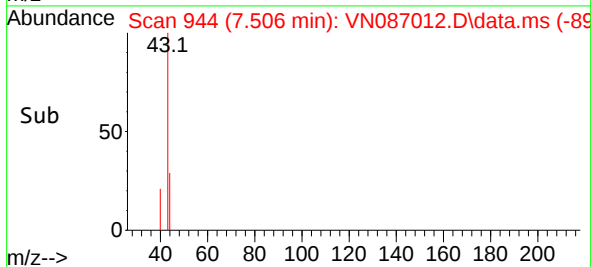
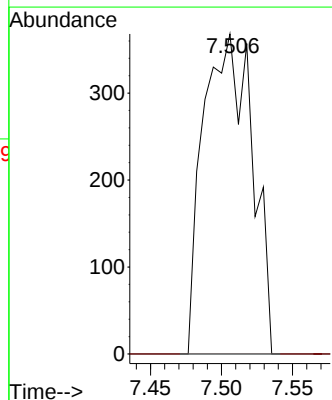
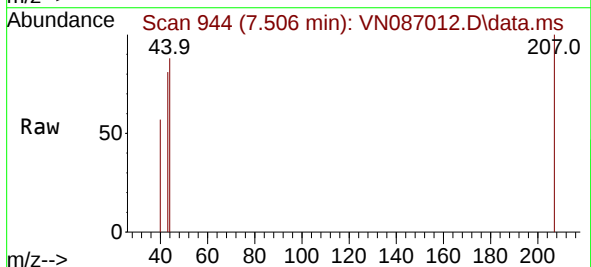


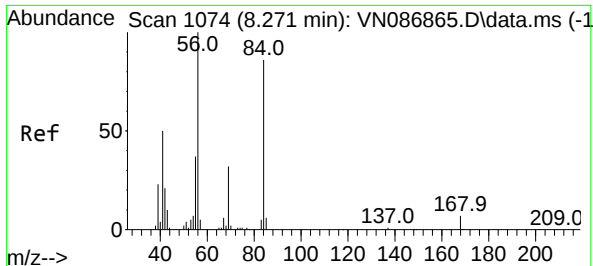
Tgt Ion:	84	Resp:	899
Ion	Ratio	Lower	Upper
84	100		
49	59.6	90.5	135.7#
51	37.1	28.5	42.7
86	42.2	48.1	72.1#



#25
2-Butanone
Concen: 0.267 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

Tgt Ion:	43	Resp:	881
Ion	Ratio	Lower	Upper
43	100		
72	0.0	23.0	34.6#





#31

Cyclohexane

Concen: 1.629 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.041 min

Lab File: VN087012.D

Acq: 13 Jun 2025 19:07

Instrument :

MSVOA_N

ClientSampleId :

MW-6-20250605DL

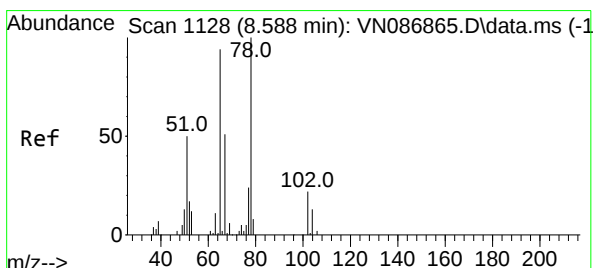
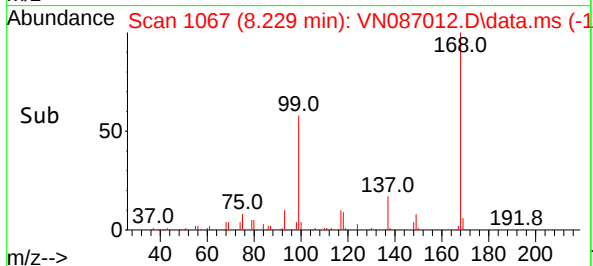
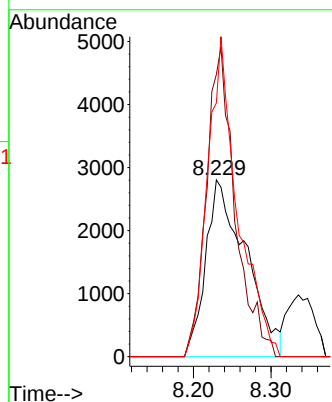
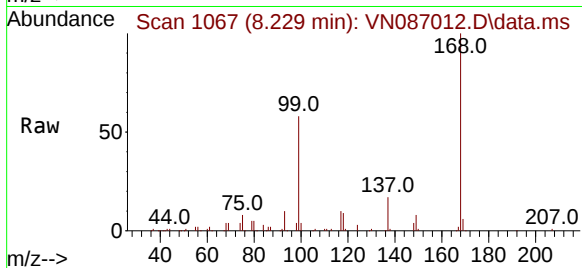
Tgt Ion: 56 Resp: 10102

Ion Ratio Lower Upper

56 100

69 159.6 25.4 38.0#

84 143.6 68.8 103.2#



#33

1,2-Dichloroethane-d4

Concen: 52.088 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN087012.D

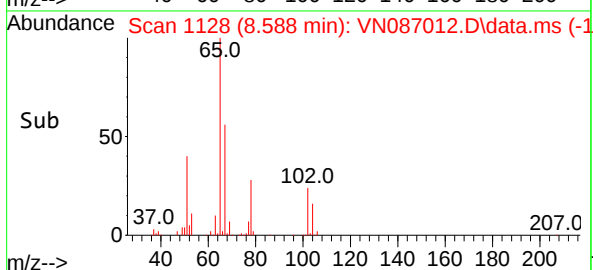
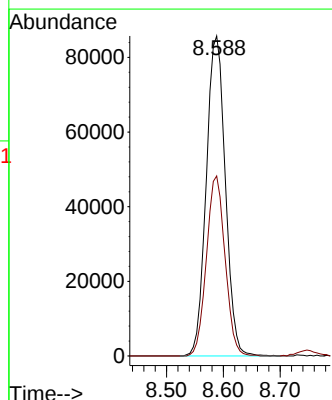
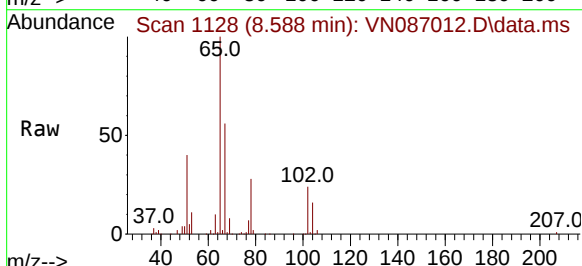
Acq: 13 Jun 2025 19:07

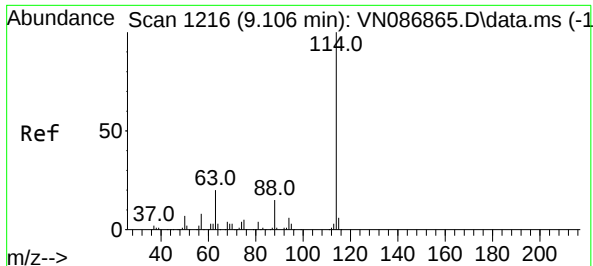
Tgt Ion: 65 Resp: 199192

Ion Ratio Lower Upper

65 100

67 54.9 0.0 105.6

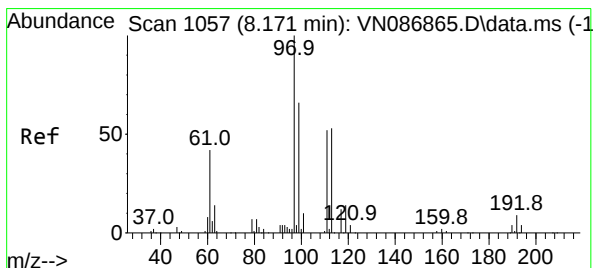
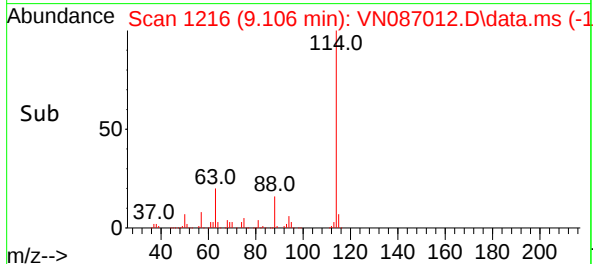
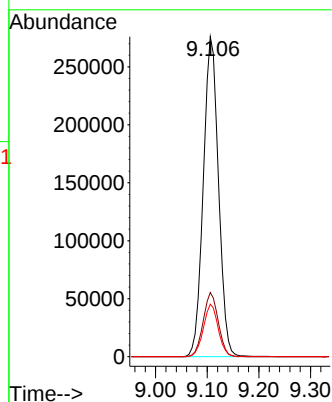
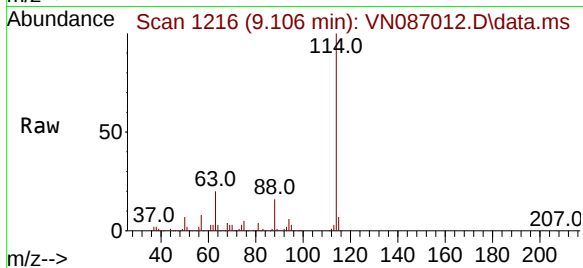




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

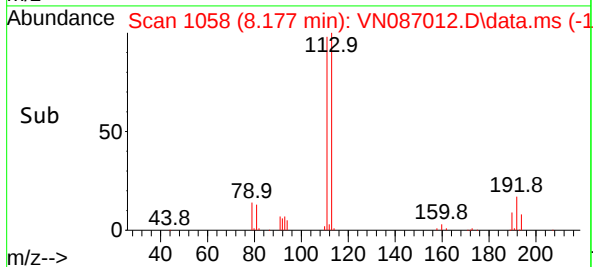
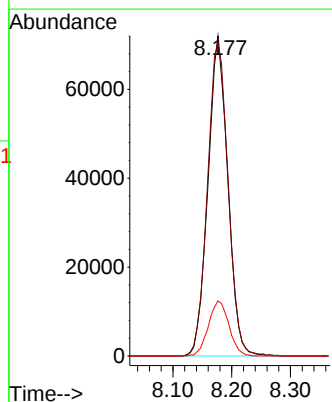
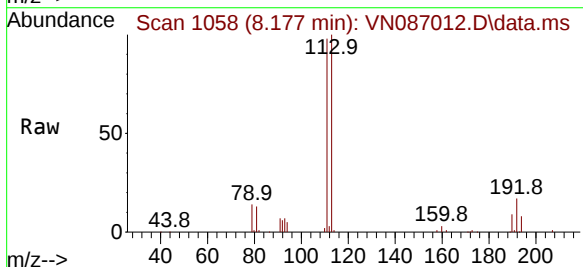
Instrument :
MSVOA_N
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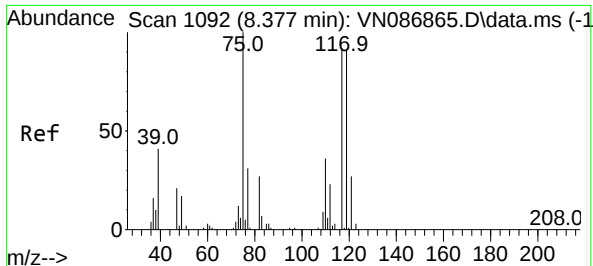
Tgt Ion:114 Resp: 563185
Ion Ratio Lower Upper
114 100
63 20.1 0.0 39.6
88 16.4 0.0 30.2



#35
Dibromofluoromethane
Concen: 50.481 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

Tgt Ion:113 Resp: 168484
Ion Ratio Lower Upper
113 100
111 102.3 84.2 126.2
192 17.8 14.2 21.4





#36

1,1-Dichloropropene

Concen: 4.416 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VN087012.D

Acq: 13 Jun 2025 19:07

Instrument :

MSVOA_N

ClientSampleId :

MW-6-20250605DL

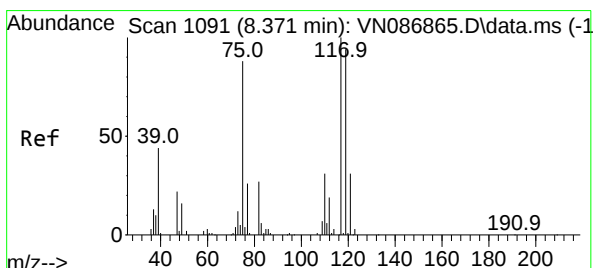
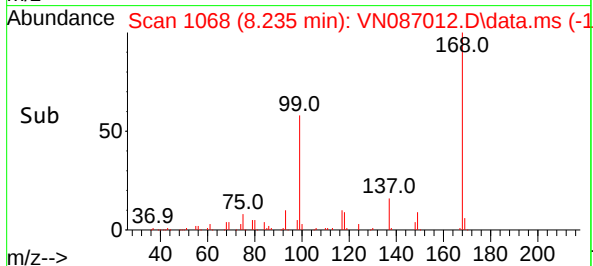
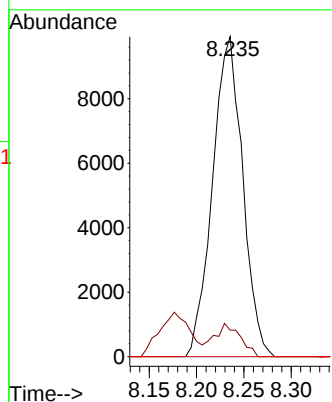
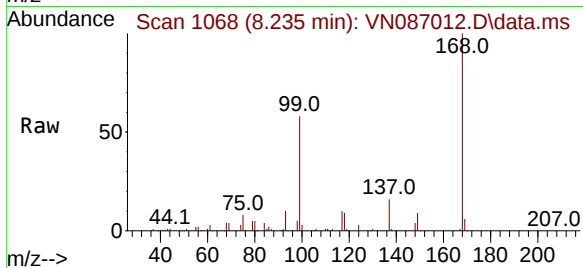
Tgt Ion: 75 Resp: 21960

Ion Ratio Lower Upper

75 100

110 9.0 17.6 52.9#

77 0.0 25.3 37.9#



#38

Carbon Tetrachloride

Concen: 5.804 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN087012.D

Acq: 13 Jun 2025 19:07

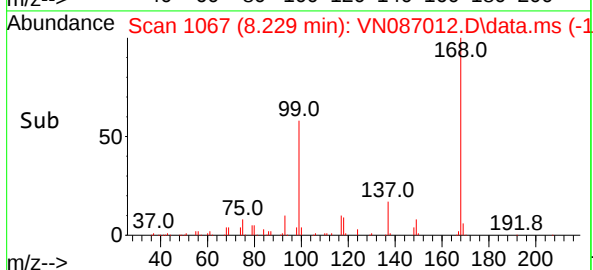
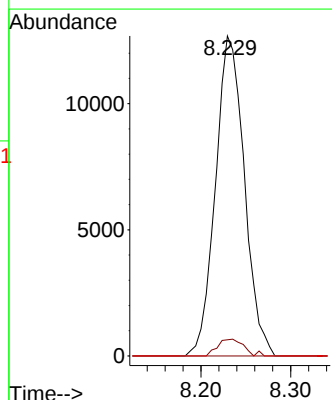
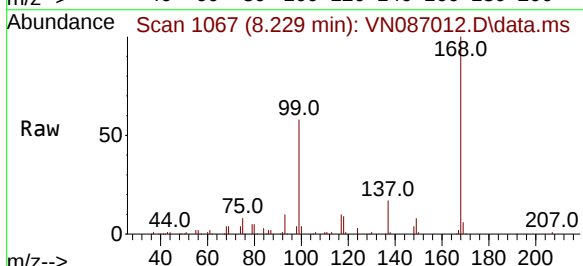
Tgt Ion: 117 Resp: 28340

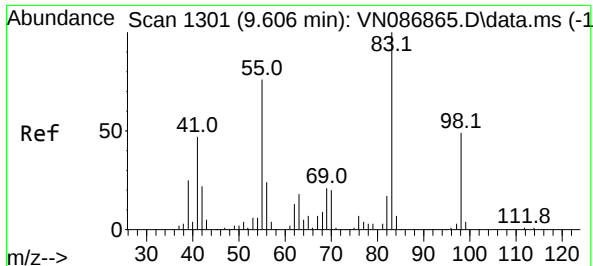
Ion Ratio Lower Upper

117 100

119 5.1 75.0 112.6#

121 0.0 24.9 37.3#





#39

Methylcyclohexane

Concen: 0.933 ug/l

RT: 9.606 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN087012.D

Acq: 13 Jun 2025 19:07

Instrument :

MSVOA_N

ClientSampleId :

MW-6-20250605DL

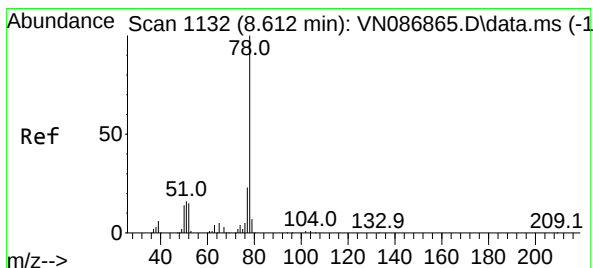
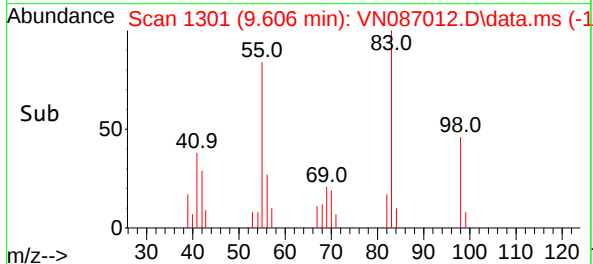
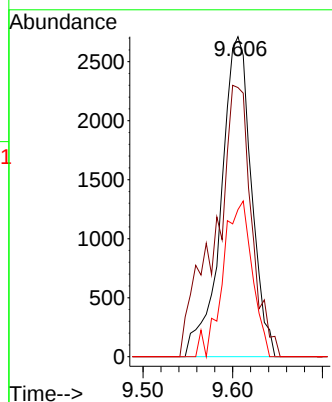
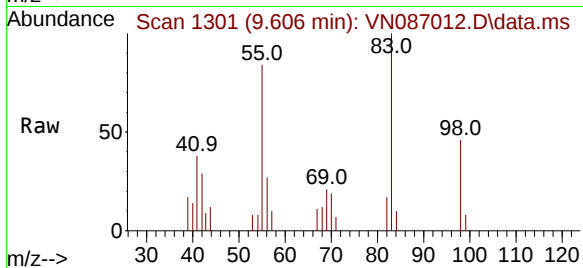
Tgt Ion: 83 Resp: 6356

Ion Ratio Lower Upper

83 100

55 84.1 61.0 91.6

98 45.9 38.9 58.3



#40

Benzene

Concen: 15.933 ug/l

RT: 8.618 min Scan# 1133

Delta R.T. 0.006 min

Lab File: VN087012.D

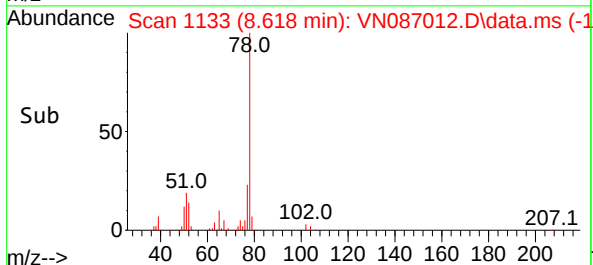
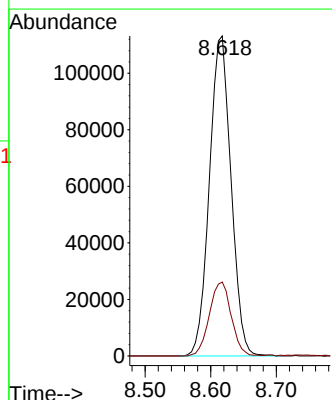
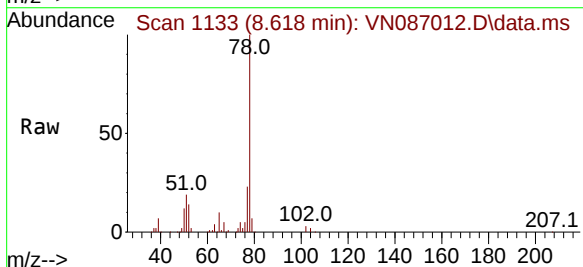
Acq: 13 Jun 2025 19:07

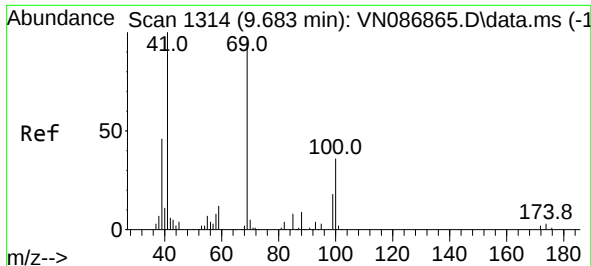
Tgt Ion: 78 Resp: 259118

Ion Ratio Lower Upper

78 100

77 23.1 18.7 28.1

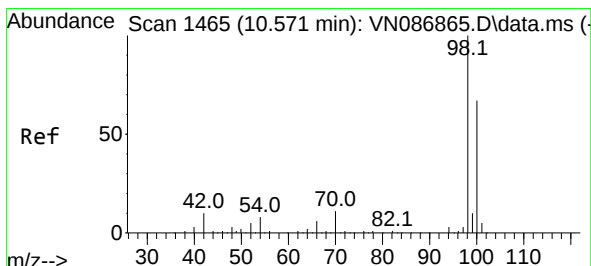
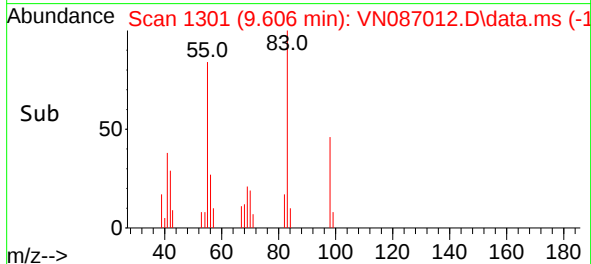
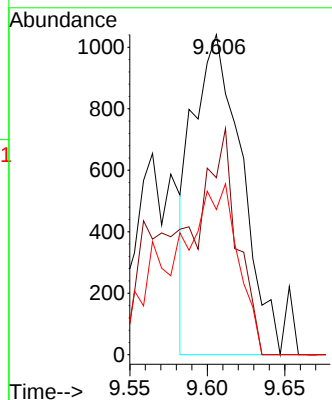
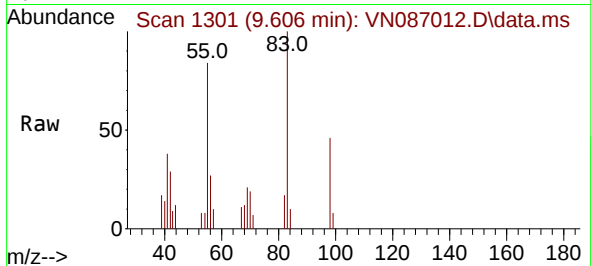




#48
Methyl methacrylate
Concen: 0.487 ug/l
RT: 9.606 min Scan# 11
Delta R.T. -0.077 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

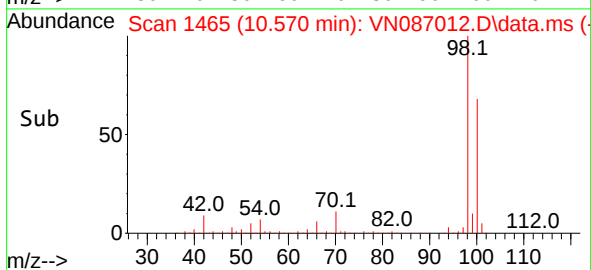
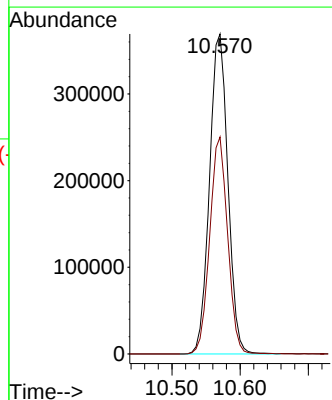
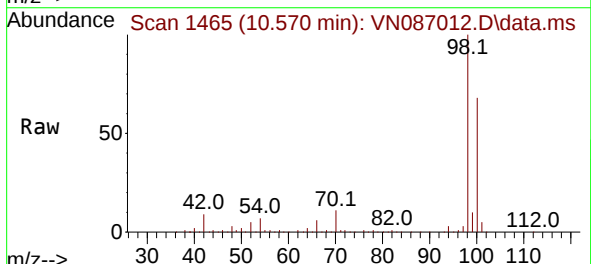
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605DL

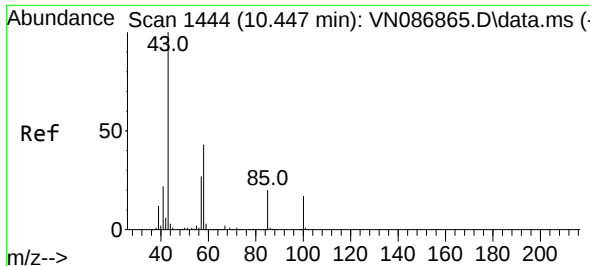
Tgt Ion: 41 Resp: 2277
Ion Ratio Lower Upper
41 100
69 42.9 74.6 112.0#
39 73.2 40.2 60.4#



#50
Toluene-d8
Concen: 52.429 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

Tgt Ion: 98 Resp: 692719
Ion Ratio Lower Upper
98 100
100 66.0 53.4 80.0

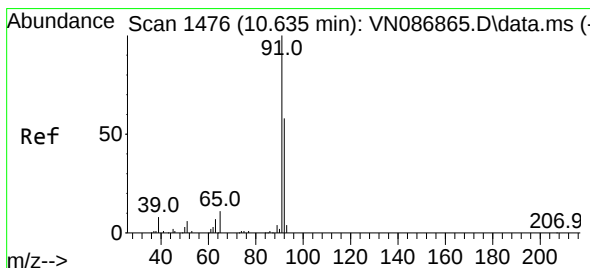
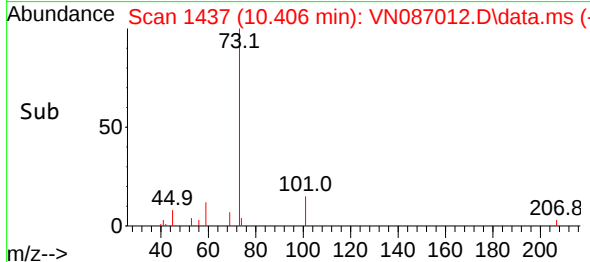
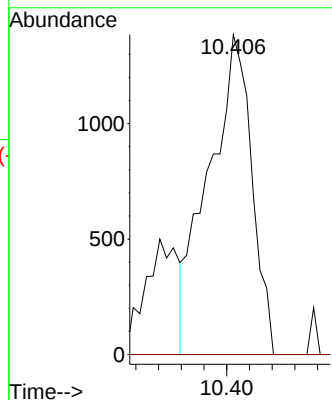
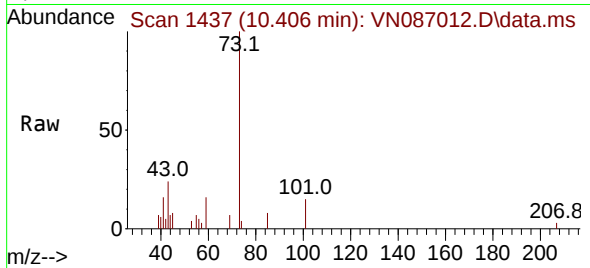




#51
4-Methyl-2-Pentanone
Concen: 0.597 ug/l
RT: 10.406 min Scan# 1444
Delta R.T. -0.041 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

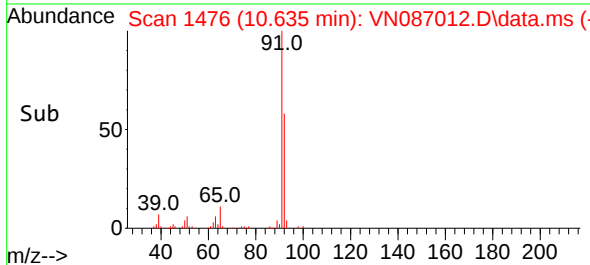
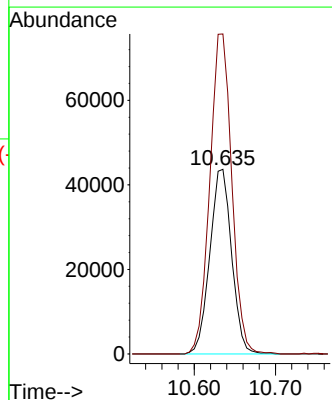
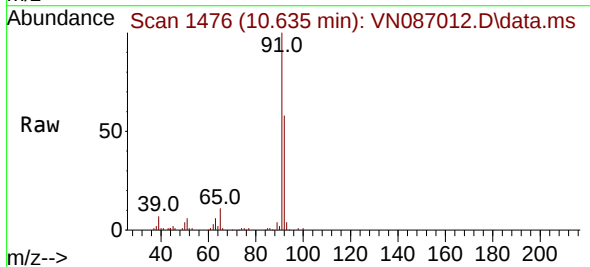
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605DL

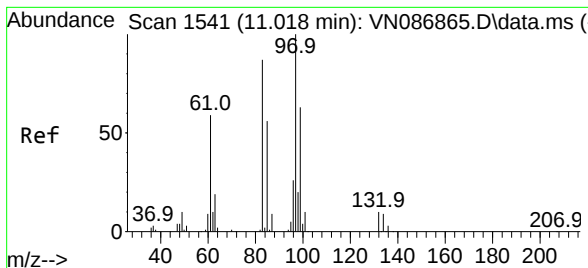
Tgt Ion: 43 Resp: 3654
Ion Ratio Lower Upper
43 100
58 0.0 34.2 51.4#



#52
Toluene
Concen: 8.210 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

Tgt Ion: 92 Resp: 81595
Ion Ratio Lower Upper
92 100
91 174.4 136.5 204.7

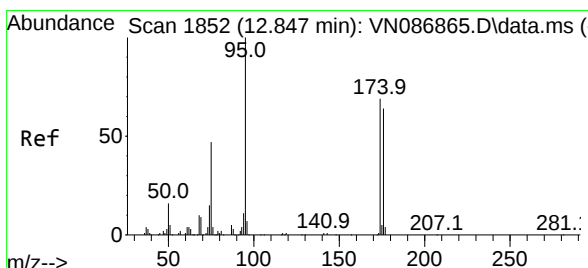
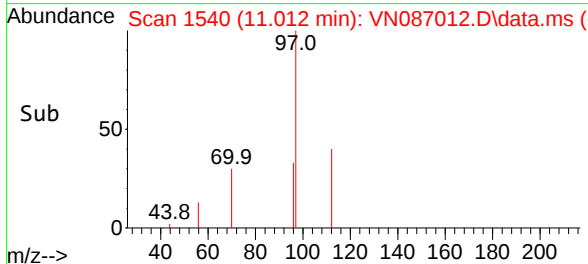
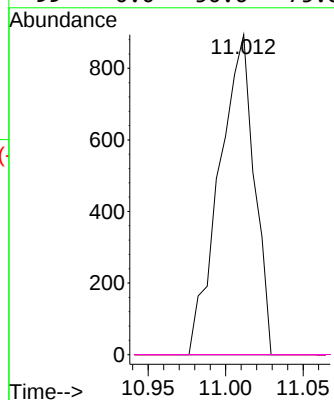
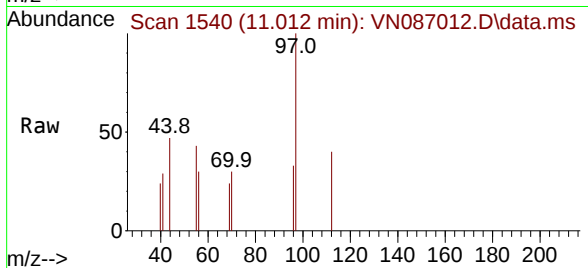




#55
 1,1,2-Trichloroethane
 Concen: 0.367 ug/l
 RT: 11.012 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: VN087012.D
 Acq: 13 Jun 2025 19:07

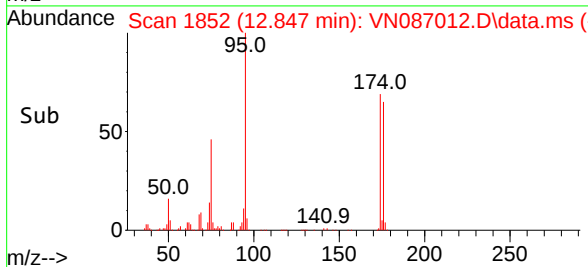
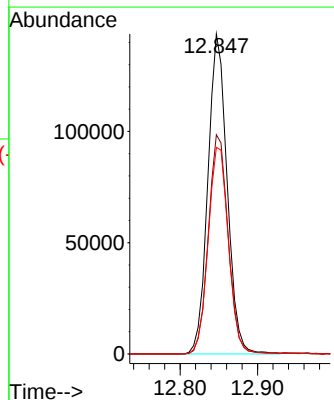
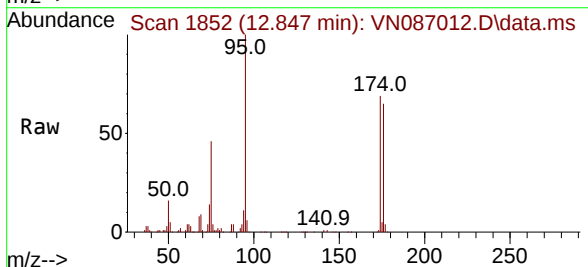
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-6-20250605DL

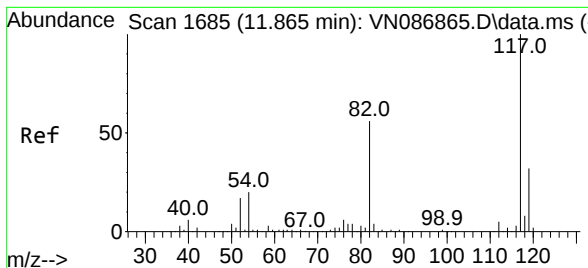
Tgt Ion:	97	Resp:	1402
Ion	Ratio	Lower	Upper
97	100		
83	0.0	69.7	104.5#
85	0.0	45.1	67.7#
99	0.0	50.6	75.8#



#62
 4-Bromofluorobenzene
 Concen: 50.526 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.000 min
 Lab File: VN087012.D
 Acq: 13 Jun 2025 19:07

Tgt Ion:	95	Resp:	248025
Ion	Ratio	Lower	Upper
95	100		
174	70.8	0.0	141.8
176	67.9	0.0	132.6

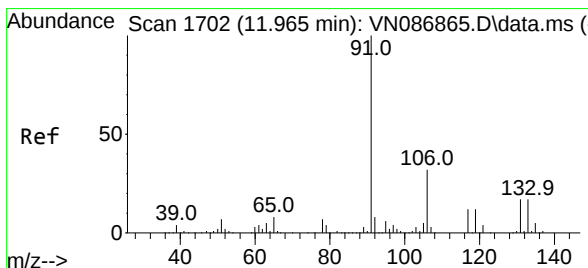
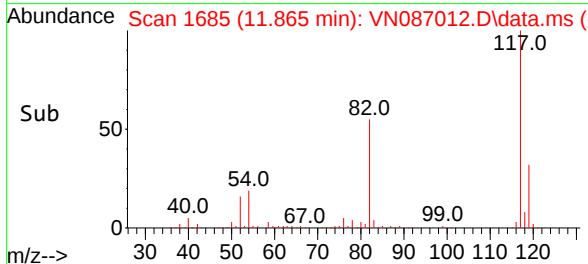
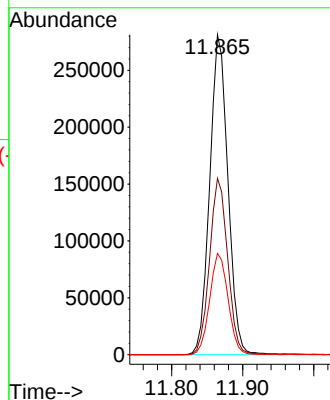
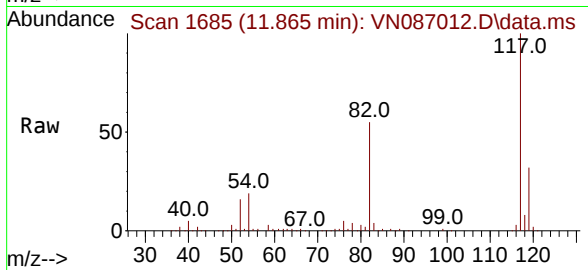




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

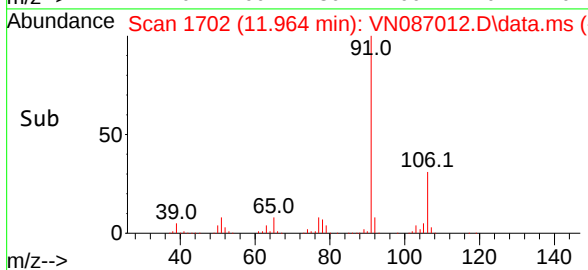
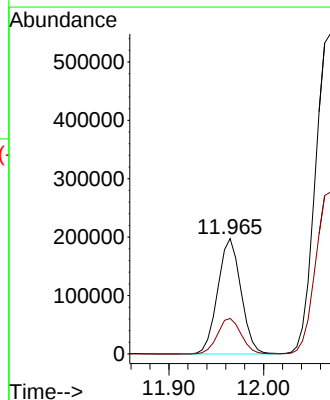
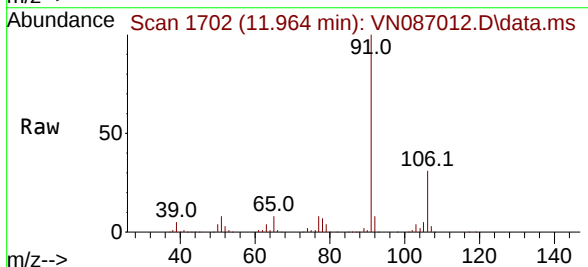
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605DL

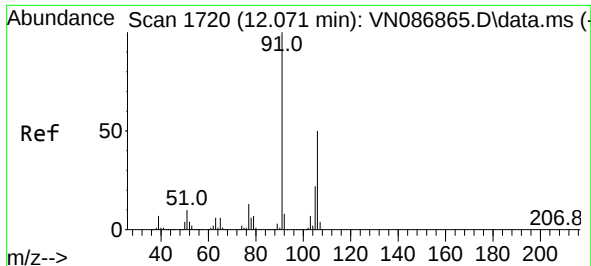
Tgt Ion:117 Resp: 499925
Ion Ratio Lower Upper
117 100
82 55.1 44.6 67.0
119 31.6 25.5 38.3



#67
Ethyl Benzene
Concen: 17.757 ug/l
RT: 11.964 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

Tgt Ion: 91 Resp: 337251
Ion Ratio Lower Upper
91 100
106 30.8 25.4 38.2

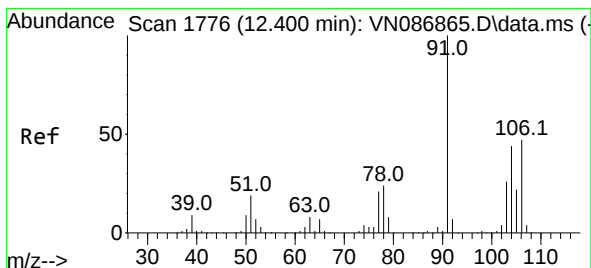
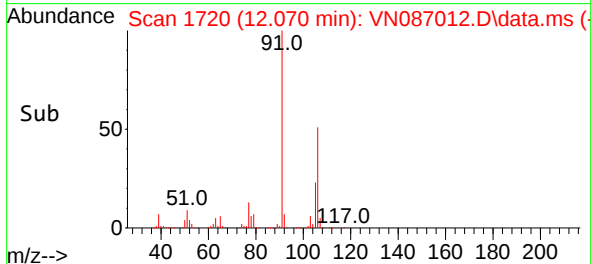
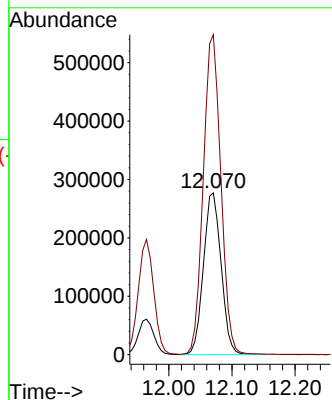
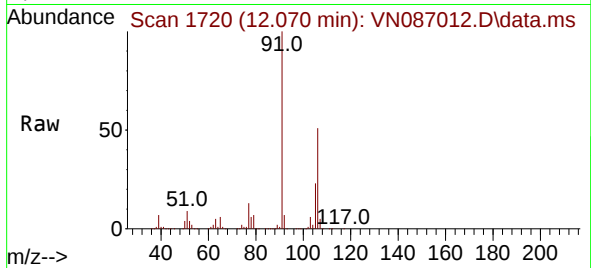




#68
m/p-Xylenes
Concen: 73.883 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

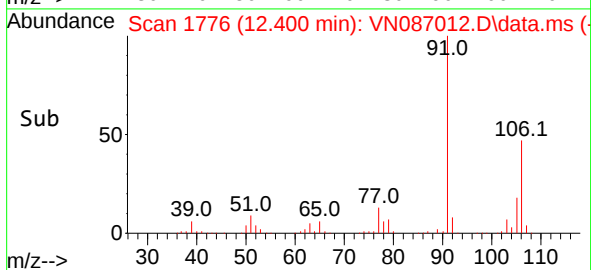
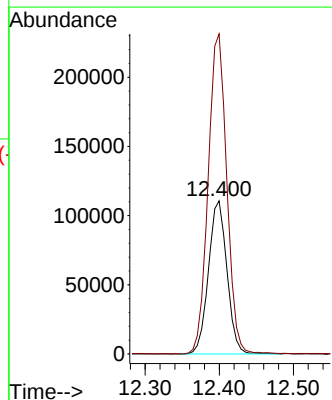
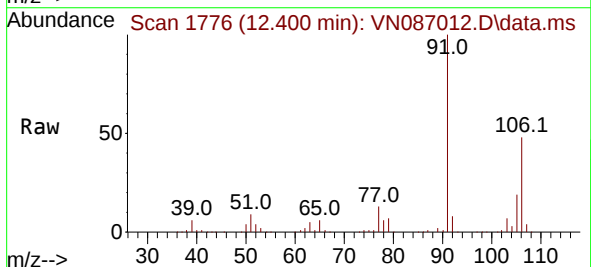
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605DL

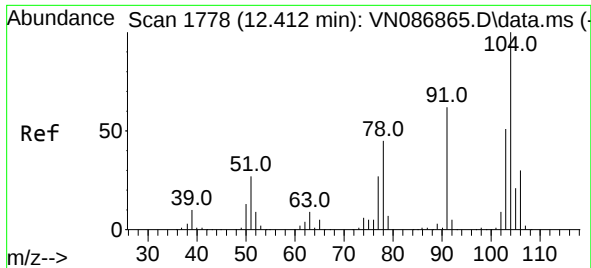
Tgt Ion:106 Resp: 537145
Ion Ratio Lower Upper
106 100
91 197.3 159.4 239.0



#69
o-Xylene
Concen: 27.563 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

Tgt Ion:106 Resp: 191921
Ion Ratio Lower Upper
106 100
91 210.9 106.1 318.1

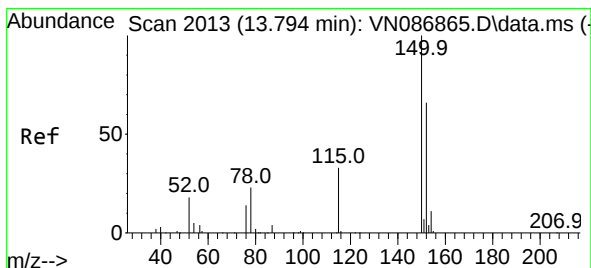
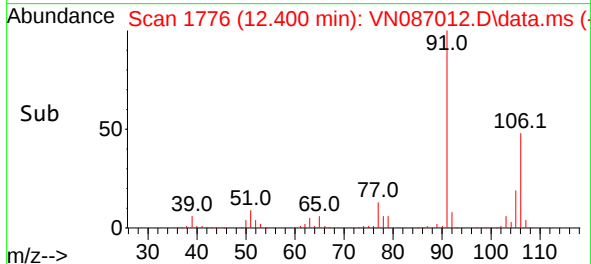
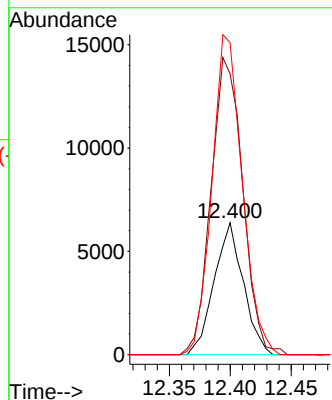
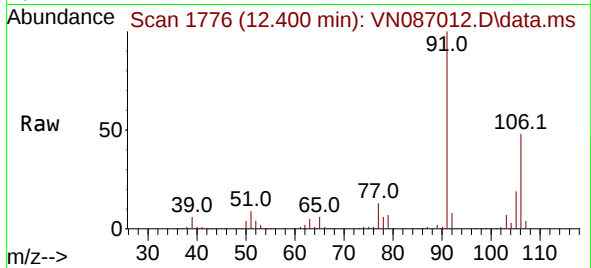




#70
Styrene
Concen: 0.894 ug/l
RT: 12.400 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

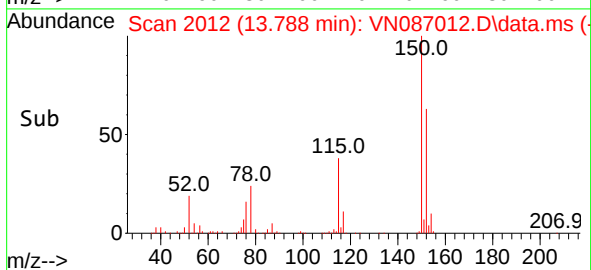
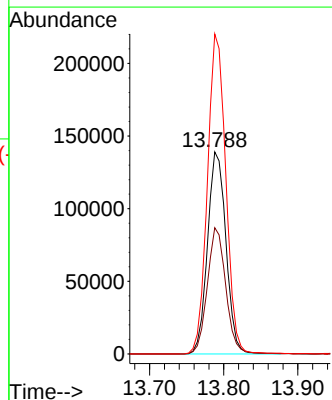
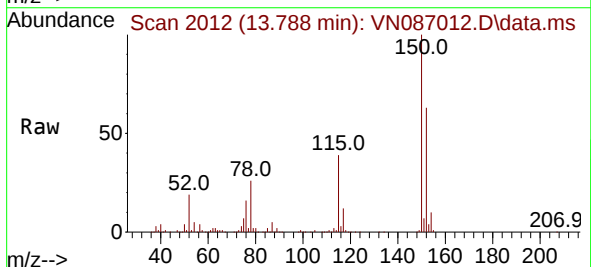
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605DL

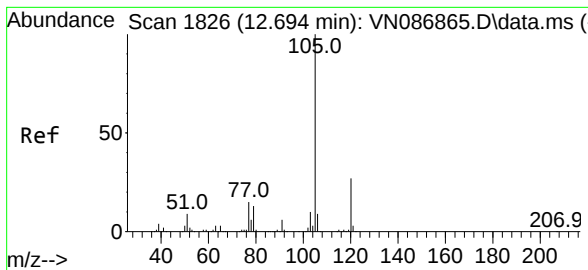
Tgt Ion:104 Resp: 10646
Ion Ratio Lower Upper
104 100
78 244.3 38.5 57.7#
103 251.4 43.1 64.7#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

Tgt Ion:152 Resp: 240672
Ion Ratio Lower Upper
152 100
115 62.7 30.1 90.5
150 158.0 0.0 345.0

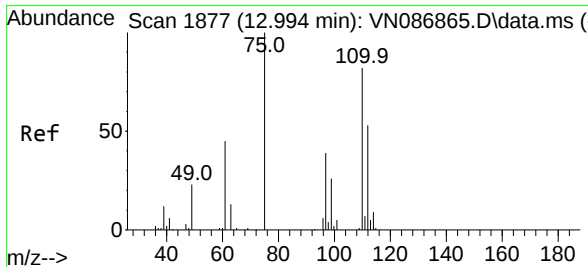
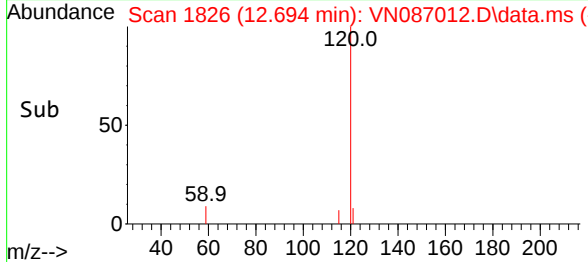
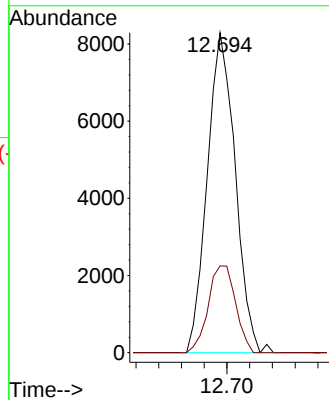
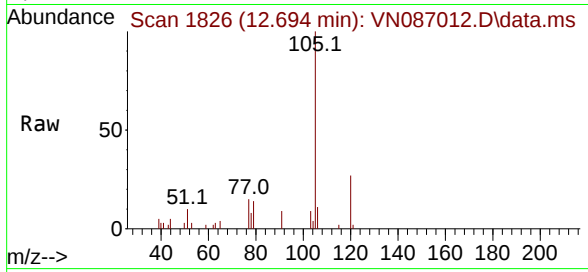




#73
Isopropylbenzene
Concen: 0.808 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

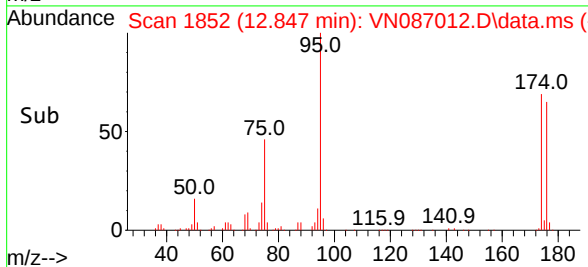
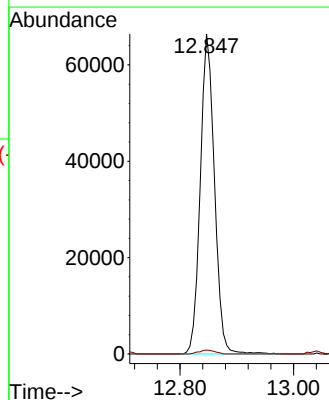
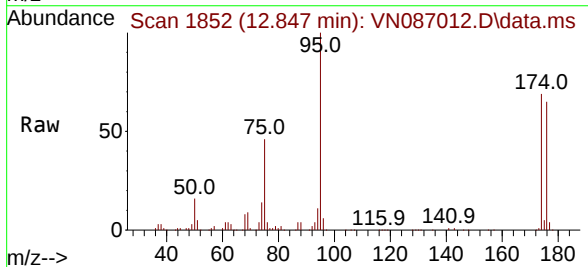
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605DL

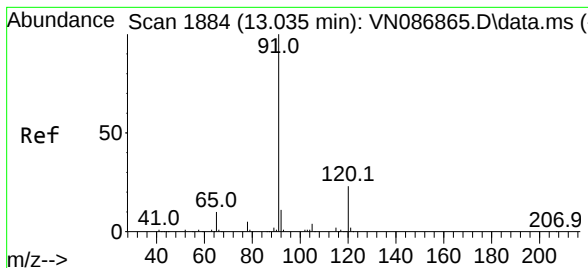
Tgt Ion:105 Resp: 14173
Ion Ratio Lower Upper
105 100
120 26.5 13.5 40.4



#76
1,2,3-Trichloropropane
Concen: 20.133 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

Tgt Ion: 75 Resp: 115177
Ion Ratio Lower Upper
75 100
77 1.4 79.3 237.9#





#78

n-propylbenzene

Concen: 1.074 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. -0.000 min

Lab File: VN087012.D

Acq: 13 Jun 2025 19:07

Instrument :

MSVOA_N

ClientSampleId :

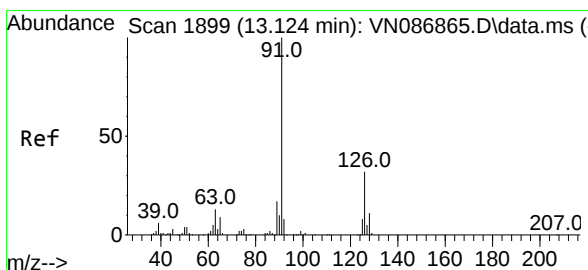
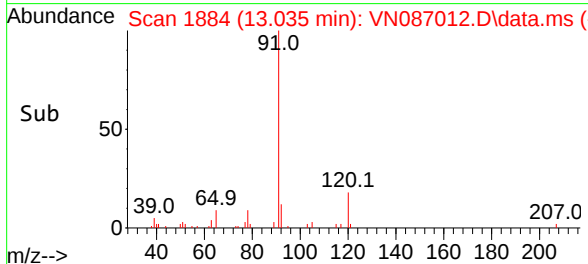
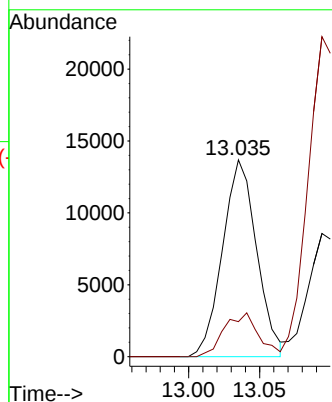
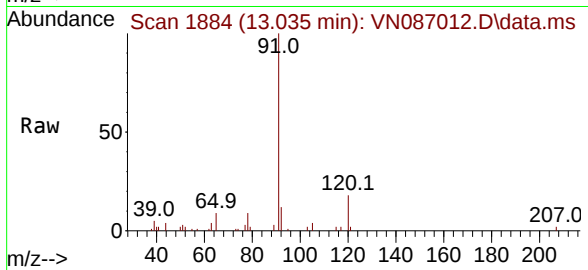
MW-6-20250605DL

Tgt Ion: 91 Resp: 22893

Ion Ratio Lower Upper

91 100

120 22.4 11.4 34.2



#79

2-Chlorotoluene

Concen: 1.635 ug/l

RT: 13.094 min Scan# 1894

Delta R.T. -0.030 min

Lab File: VN087012.D

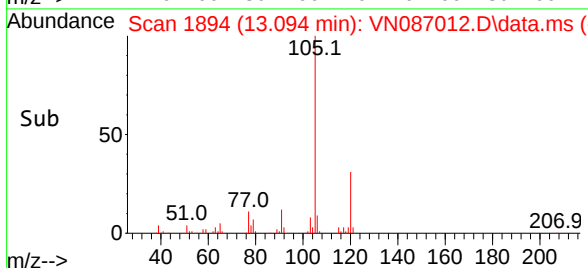
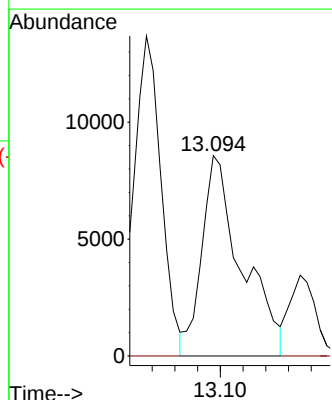
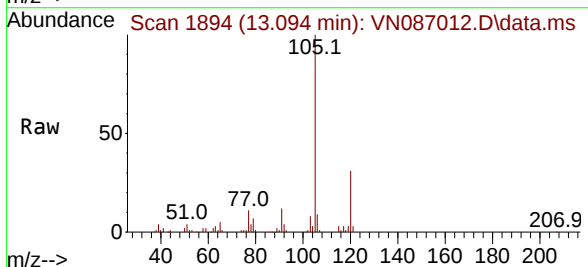
Acq: 13 Jun 2025 19:07

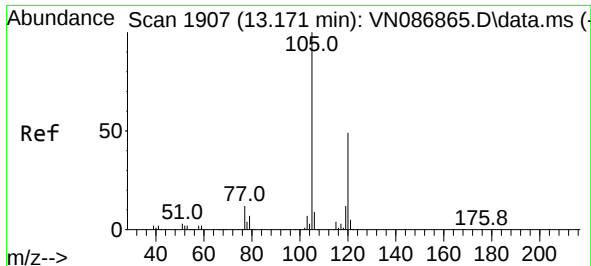
Tgt Ion: 91 Resp: 20889

Ion Ratio Lower Upper

91 100

126 0.0 16.2 48.5#

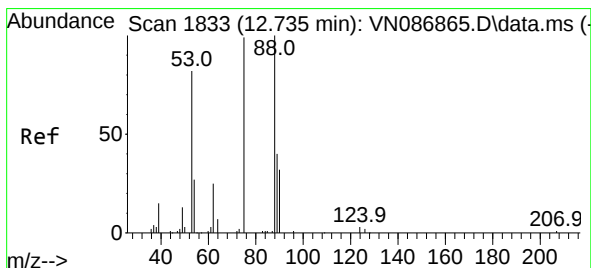
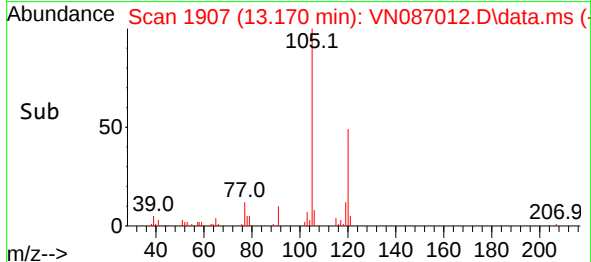
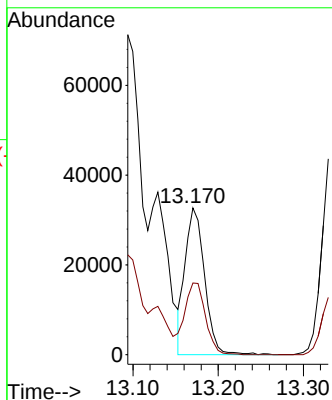
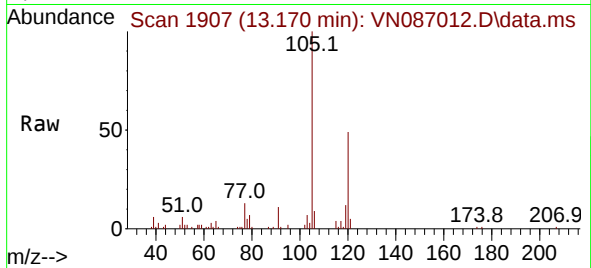




#80
1,3,5-Trimethylbenzene
Concen: 3.584 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

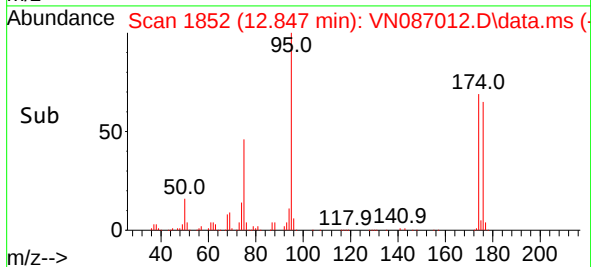
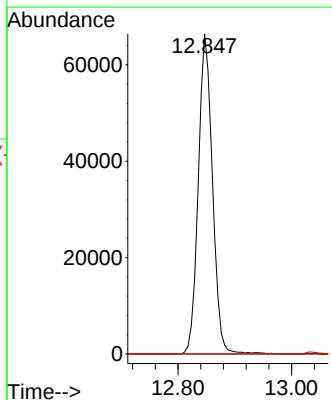
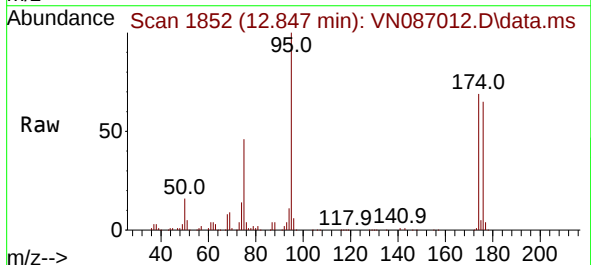
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605DL

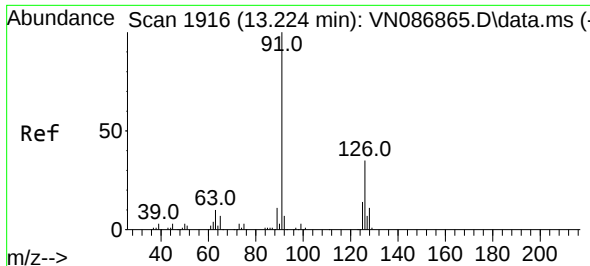
Tgt Ion:105 Resp: 51885
Ion Ratio Lower Upper
105 100
120 53.8 24.9 74.6



#81
trans-1,4-Dichloro-2-butene
Concen: 46.345 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.111 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

Tgt Ion: 75 Resp: 115177
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.0 36.7 55.1#

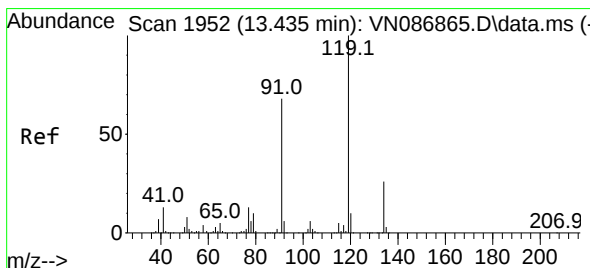
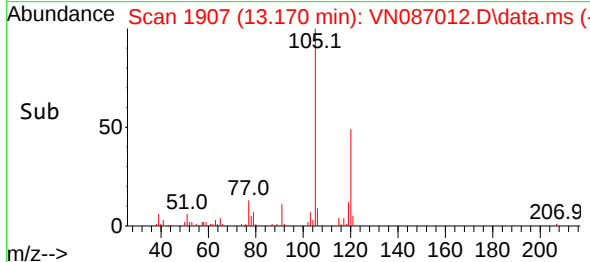
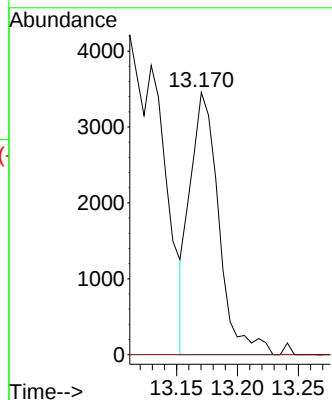
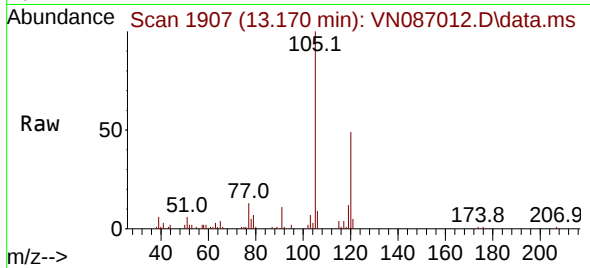




#82
4-Chlorotoluene
Concen: 0.439 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.053 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

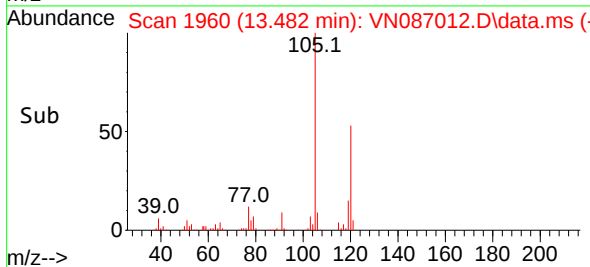
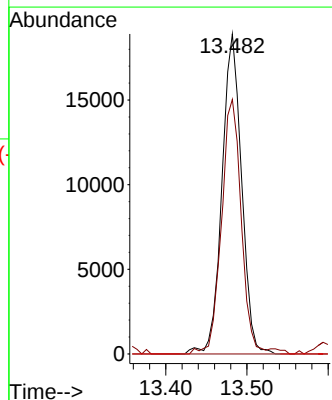
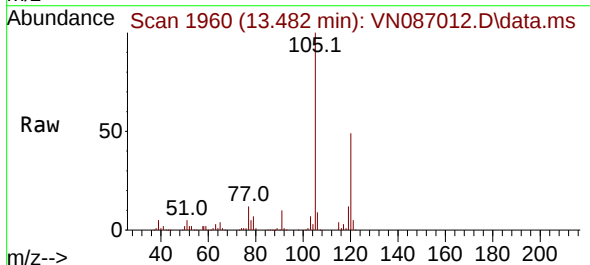
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605DL

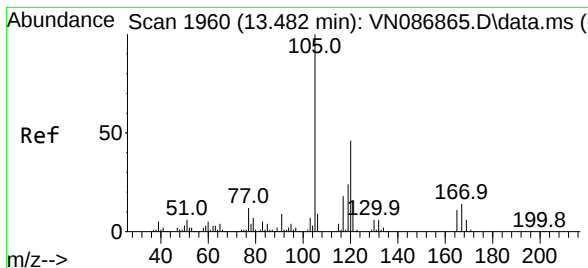
Tgt Ion: 91 Resp: 5678
Ion Ratio Lower Upper
91 100
126 0.0 16.7 50.1#



#83
tert-Butylbenzene
Concen: 2.394 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.047 min
Lab File: VN087012.D
Acq: 13 Jun 2025 19:07

Tgt Ion: 119 Resp: 31724
Ion Ratio Lower Upper
119 100
91 79.8 32.1 96.5
134 0.0 13.4 40.1#





#84

1,2,4-Trimethylbenzene

Concen: 17.246 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. -0.000 min

Lab File: VN087012.D

Acq: 13 Jun 2025 19:07

Instrument :

MSVOA_N

ClientSampleId :

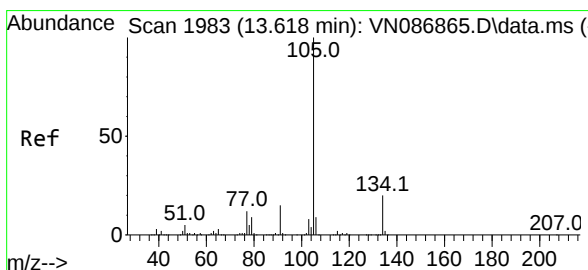
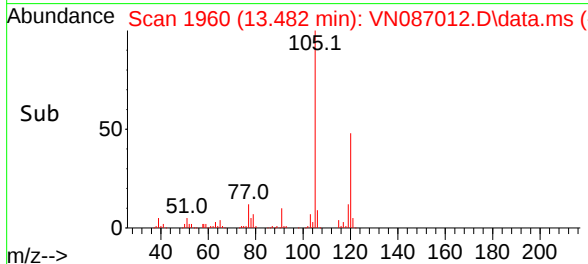
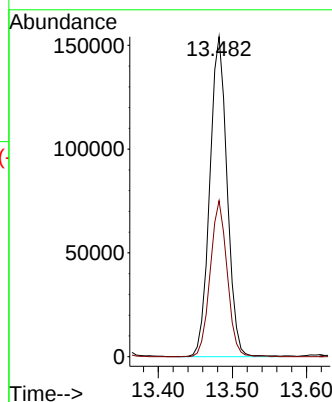
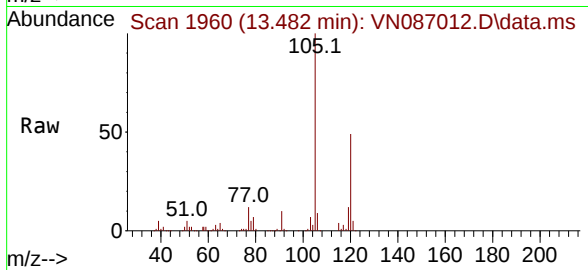
MW-6-20250605DL

Tgt Ion:105 Resp: 250344

Ion Ratio Lower Upper

105 100

120 47.6 23.2 69.6



#85

sec-Butylbenzene

Concen: 13.010 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. -0.136 min

Lab File: VN087012.D

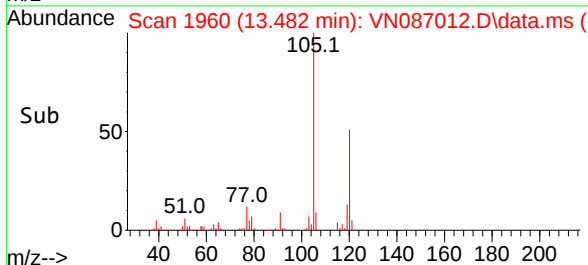
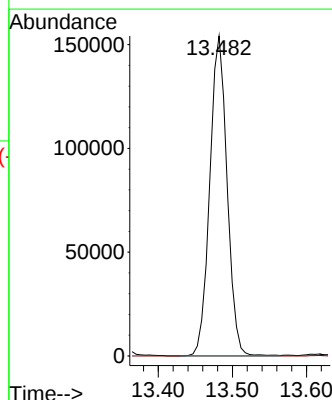
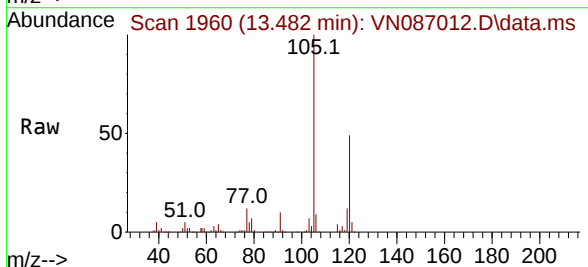
Acq: 13 Jun 2025 19:07

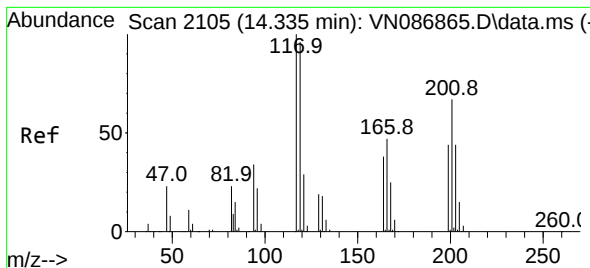
Tgt Ion:105 Resp: 250344

Ion Ratio Lower Upper

105 100

134 0.0 10.0 30.0#





#90

Hexachloroethane

Concen: 0.690 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.006 min

Lab File: VN087012.D

Acq: 13 Jun 2025 19:07

Instrument :

MSVOA_N

ClientSampleId :

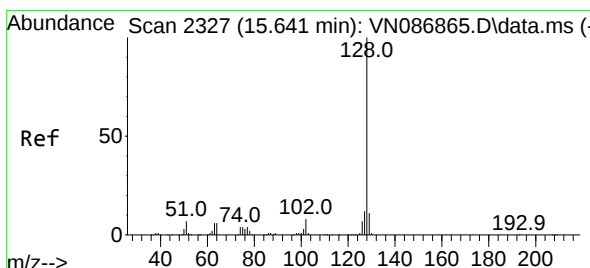
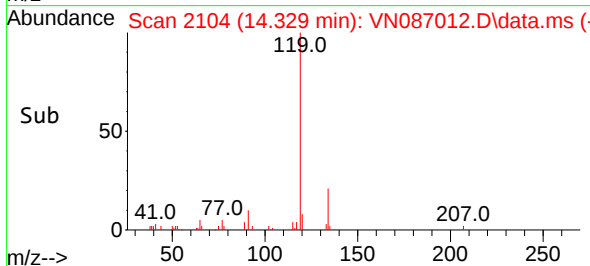
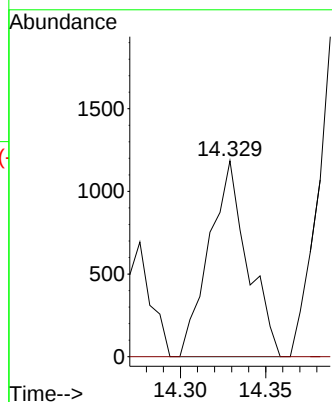
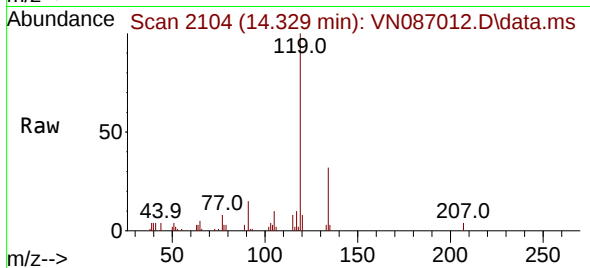
MW-6-20250605DL

Tgt Ion:117 Resp: 1861

Ion Ratio Lower Upper

117 100

201 0.0 33.2 99.6#



#95

Naphthalene

Concen: 3.224 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.000 min

Lab File: VN087012.D

Acq: 13 Jun 2025 19:07

Tgt Ion:128 Resp: 58250

Ion Ratio Lower Upper

128 100

127 12.5 10.2 15.2

129 10.7 8.8 13.2

