

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
 Data File : VN087042.D
 Acq On : 16 Jun 2025 19:07
 Operator : JC\MD
 Sample : Q2268-08DL 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3-20250605DL

Quant Time: Jun 17 07:28:47 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)

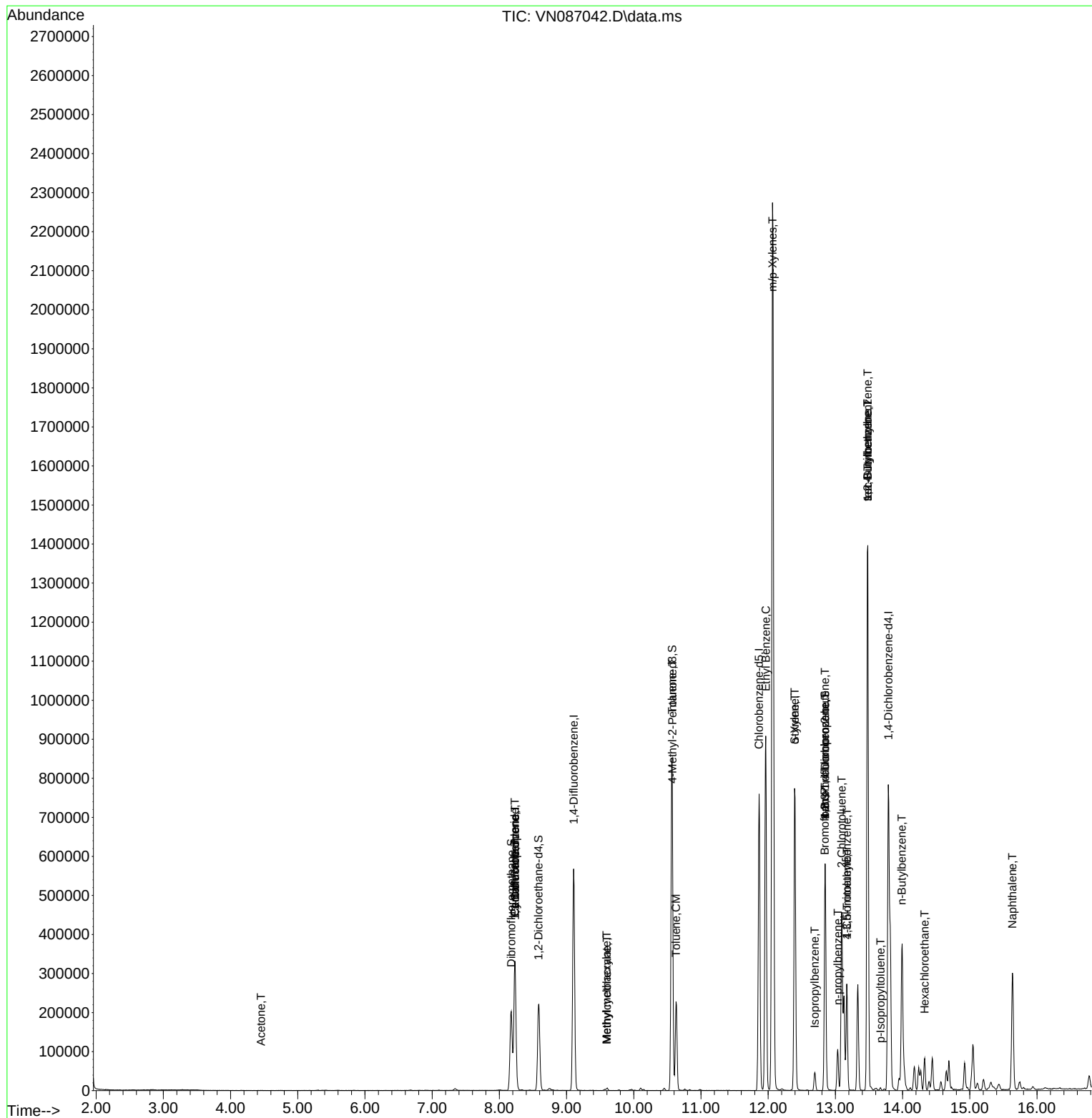
Internal Standards						
1) Pentafluorobenzene	8.230	168	263151	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	520533	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	469764	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	224894	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	183686	52.135	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.260%			
35) Dibromofluoromethane	8.177	113	158071	51.242	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.480%			
50) Toluene-d8	10.571	98	640406	52.441	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.880%			
62) 4-Bromofluorobenzene	12.847	95	228423	50.346	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.700%			
Target Compounds					Qvalue	
16) Acetone	4.453	43	681	0.364	ug/l #	40
31) Cyclohexane	8.230	56	7642	1.337	ug/l #	1
36) 1,1-Dichloropropene	8.236	75	20182	4.391	ug/l #	48
38) Carbon Tetrachloride	8.230	117	24988	5.537	ug/l #	17
39) Methylcyclohexane	9.600	83	2695	0.428	ug/l	90
48) Methyl methacrylate	9.594	41	1101	0.255	ug/l #	58
51) 4-Methyl-2-Pentanone	10.577	43	1958	0.346	ug/l #	1
52) Toluene	10.629	92	107188	11.669	ug/l	99
67) Ethyl Benzene	11.965	91	711759	39.883	ug/l	100
68) m/p-Xylenes	12.065	106	820104	120.046	ug/l	98
69) o-Xylene	12.394	106	237544	36.306	ug/l	97
70) Styrene	12.394	104	15536	1.388	ug/l #	1
71) Bromoform	12.841	173	1051	0.426	ug/l #	1
73) Isopropylbenzene	12.694	105	33551	2.048	ug/l	99
76) 1,2,3-Trichloropropane	12.847	75	106862	19.990	ug/l #	1
78) n-propylbenzene	13.035	91	87269	4.383	ug/l	100
79) 2-Chlorotoluene	13.094	91	35238	2.951	ug/l #	42
80) 1,3,5-Trimethylbenzene	13.171	105	158097	11.688	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.847	75	106862	46.016	ug/l #	16
82) 4-Chlorotoluene	13.171	91	15538	1.286	ug/l #	41
83) tert-Butylbenzene	13.482	119	104494	8.439	ug/l #	69
84) 1,2,4-Trimethylbenzene	13.482	105	839398	61.884	ug/l	98
85) sec-Butylbenzene	13.482	105	839398	46.681	ug/l #	56
86) p-Isopropyltoluene	13.670	119	4248	0.286	ug/l #	74
89) n-Butylbenzene	13.988	91	44519	3.092	ug/l #	42
90) Hexachloroethane	14.329	117	5017	1.991	ug/l #	17
95) Naphthalene	15.635	128	298819	17.701	ug/l	100

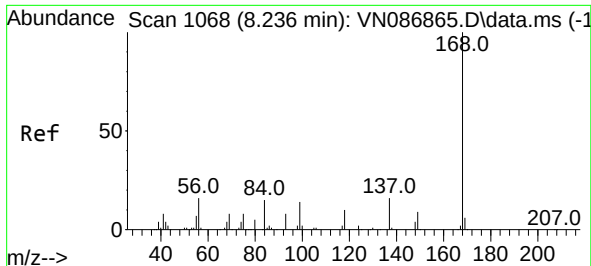
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration

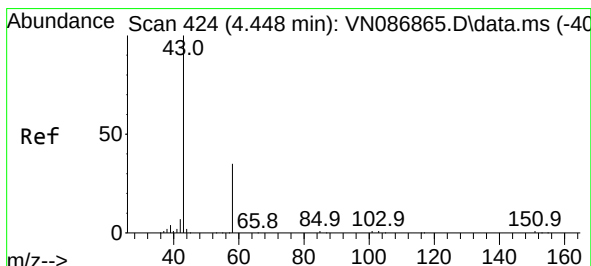
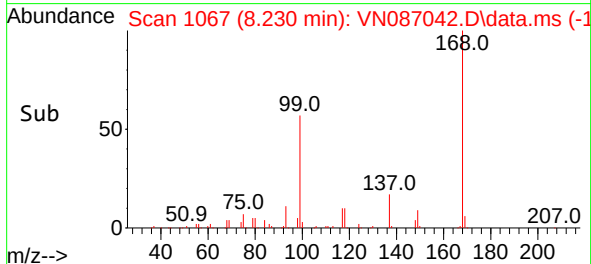
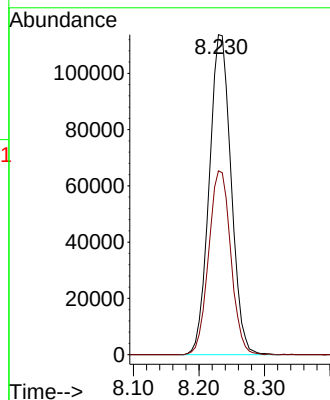
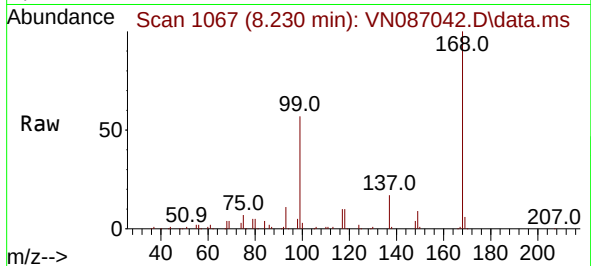




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

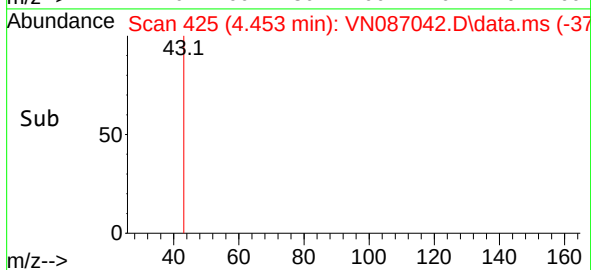
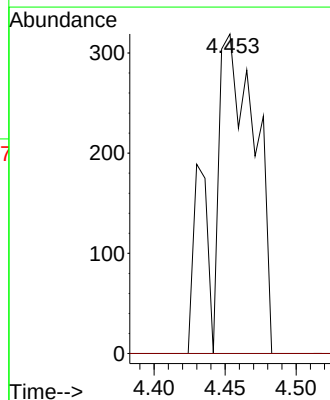
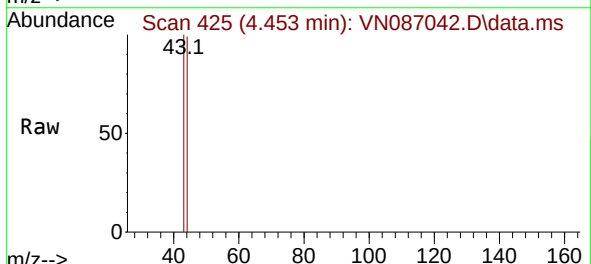
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

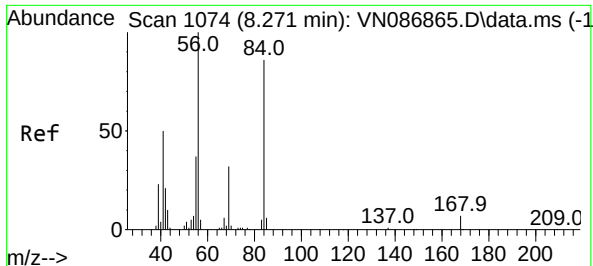
Tgt Ion:168 Resp: 263151
Ion Ratio Lower Upper
168 100
99 57.5 49.1 73.7



#16
Acetone
Concen: 0.364 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.006 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

Tgt Ion: 43 Resp: 681
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#

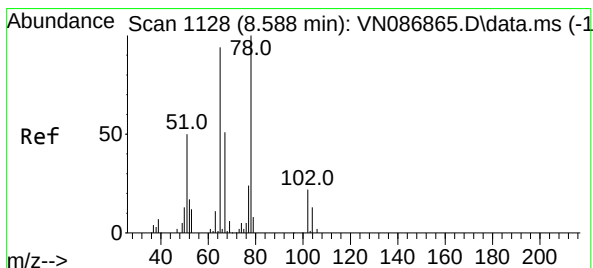
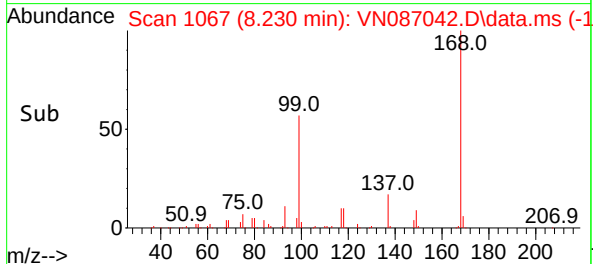
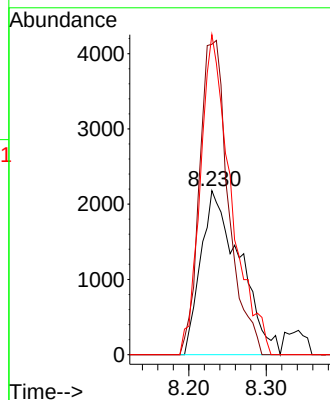
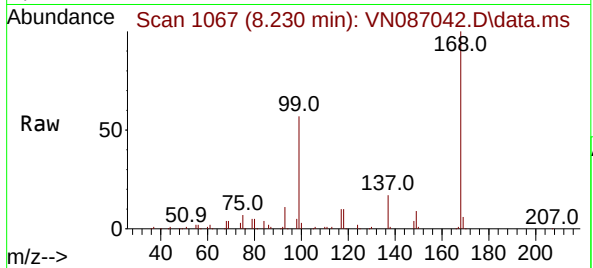




#31
Cyclohexane
Concen: 1.337 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.041 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

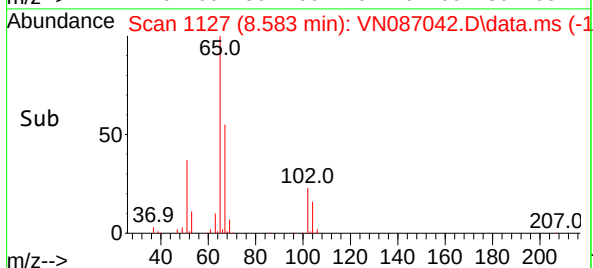
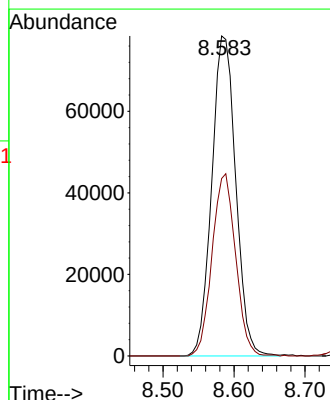
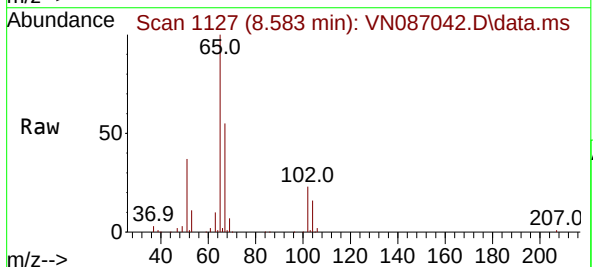
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

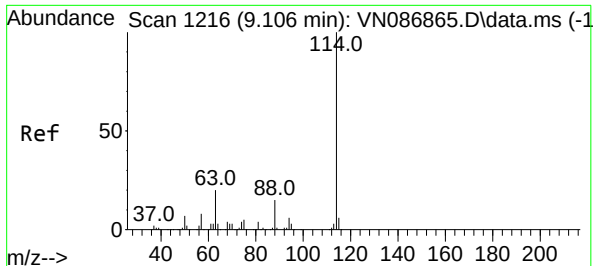
Tgt Ion: 56 Resp: 7642
Ion Ratio Lower Upper
56 100
69 189.3 25.4 38.0#
84 195.1 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 52.135 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

Tgt Ion: 65 Resp: 183686
Ion Ratio Lower Upper
65 100
67 55.9 0.0 105.6

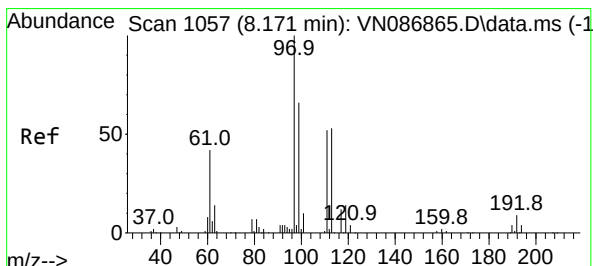
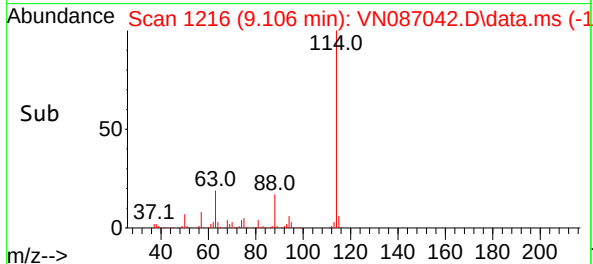
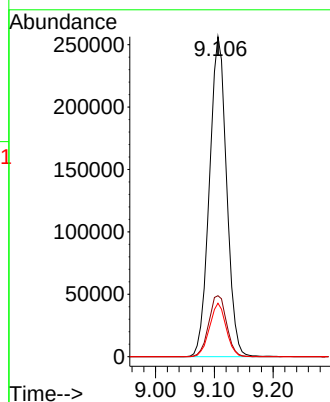
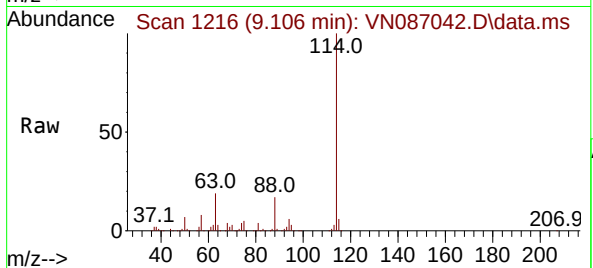




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

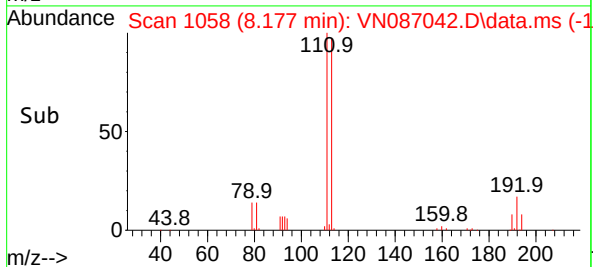
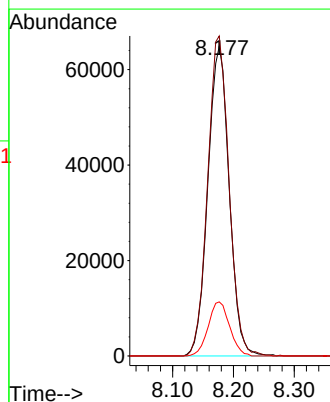
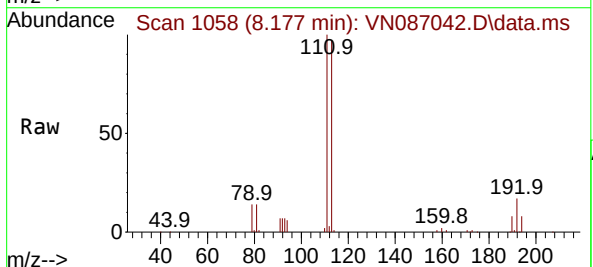
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

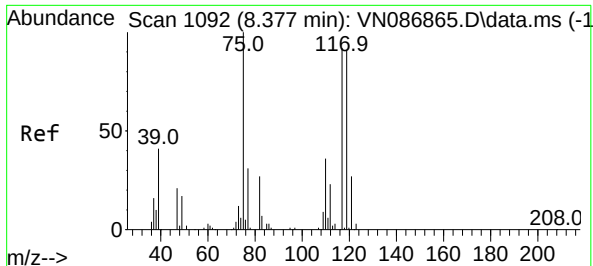
Tgt Ion:114 Resp: 520533
Ion Ratio Lower Upper
114 100
63 19.1 0.0 39.6
88 16.7 0.0 30.2



#35
Dibromofluoromethane
Concen: 51.242 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

Tgt Ion:113 Resp: 158071
Ion Ratio Lower Upper
113 100
111 103.2 84.2 126.2
192 17.6 14.2 21.4

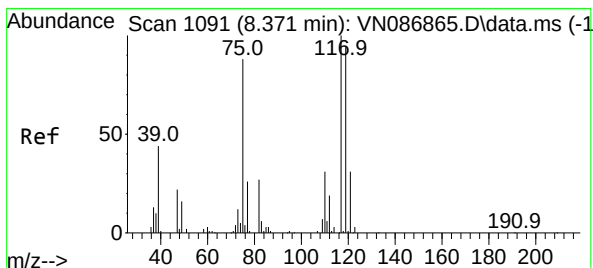
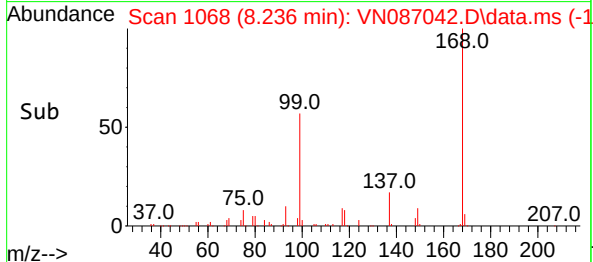
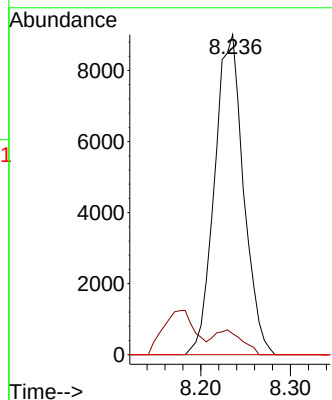
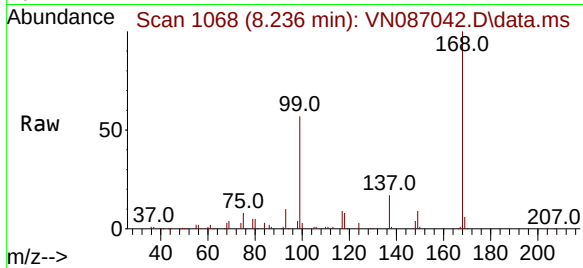




#36
1,1-Dichloropropene
Concen: 4.391 ug/l
RT: 8.236 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

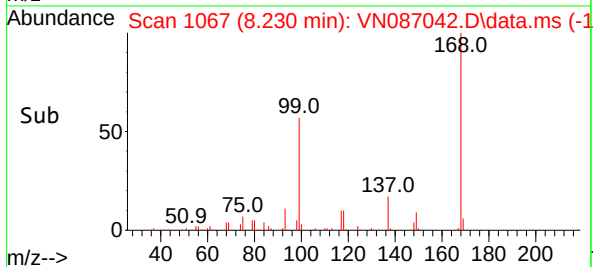
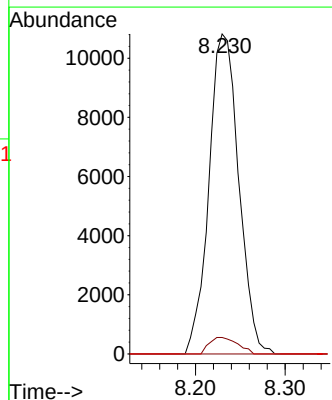
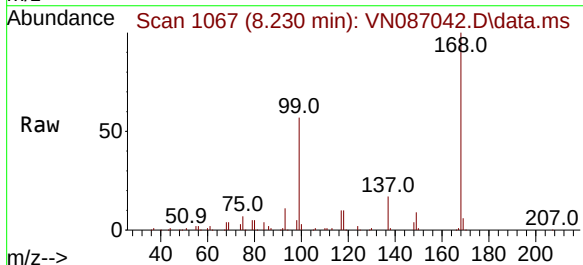
Instrument :
MSVOA_N
ClientSampleId :
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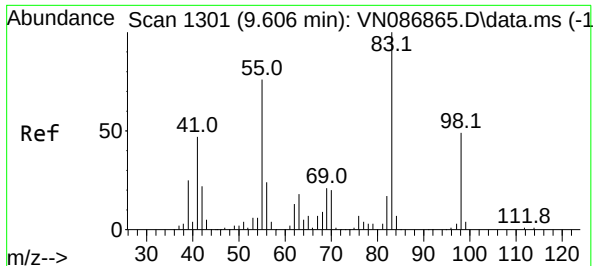
Tgt Ion: 75 Resp: 20182
Ion Ratio Lower Upper
75 100
110 7.6 17.6 52.9#
77 0.0 25.3 37.9#



#38
Carbon Tetrachloride
Concen: 5.537 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

Tgt Ion: 117 Resp: 24988
Ion Ratio Lower Upper
117 100
119 5.2 75.0 112.6#
121 0.0 24.9 37.3#





#39

Methylcyclohexane

Concen: 0.428 ug/l

RT: 9.600 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN087042.D

Acq: 16 Jun 2025 19:07

Instrument :

MSVOA_N

ClientSampleId :

MW-3-20250605DL

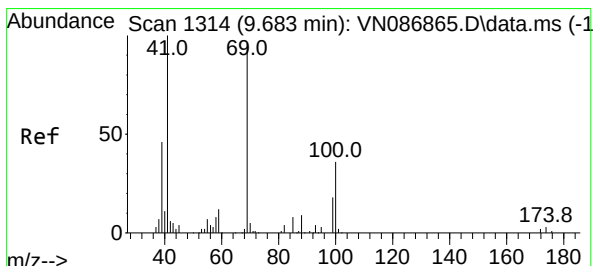
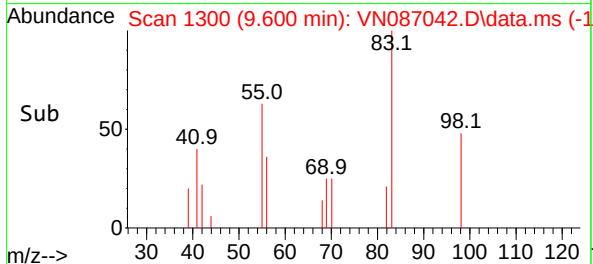
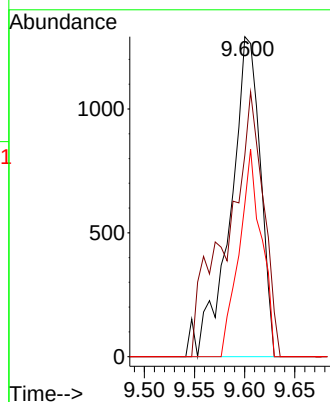
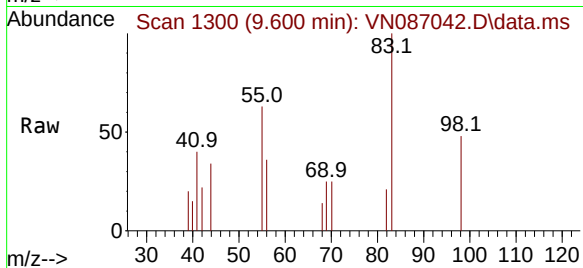
Tgt Ion: 83 Resp: 2695

Ion Ratio Lower Upper

83 100

55 63.0 61.0 91.6

98 47.8 38.9 58.3



#48

Methyl methacrylate

Concen: 0.255 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. -0.088 min

Lab File: VN087042.D

Acq: 16 Jun 2025 19:07

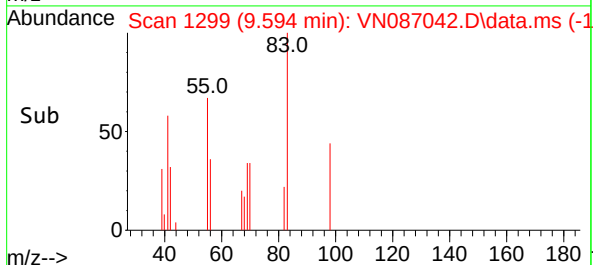
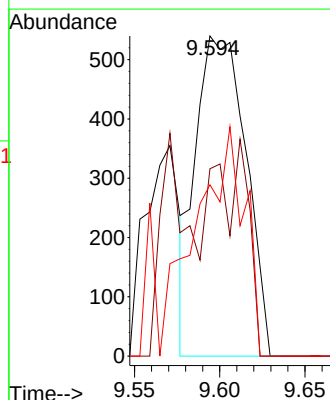
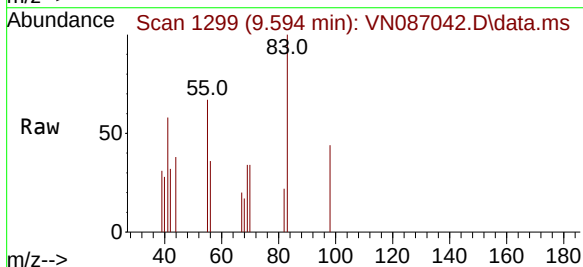
Tgt Ion: 41 Resp: 1101

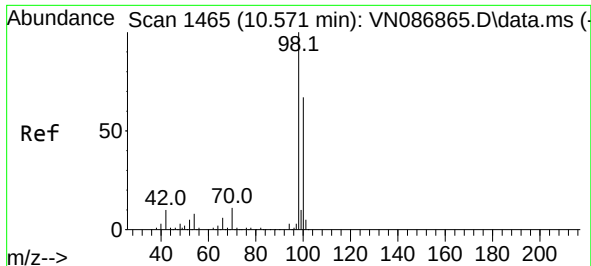
Ion Ratio Lower Upper

41 100

69 46.6 74.6 112.0#

39 69.9 40.2 60.4#

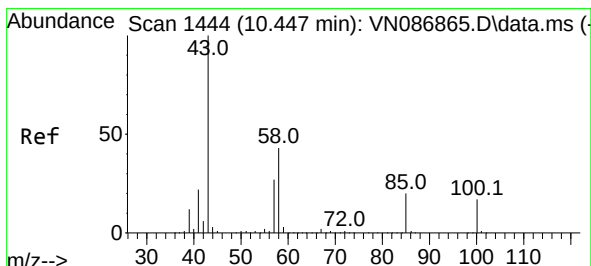
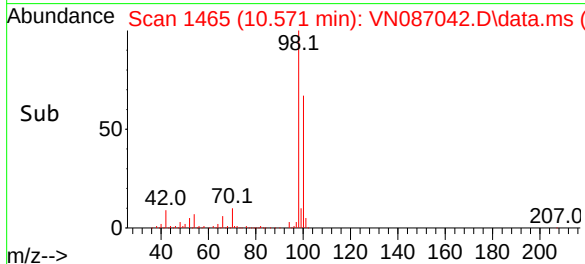
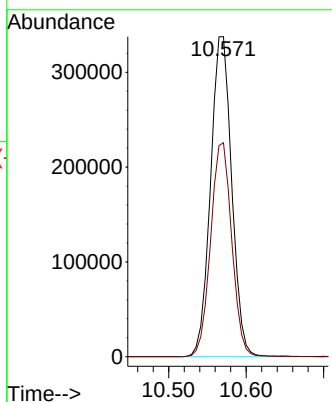
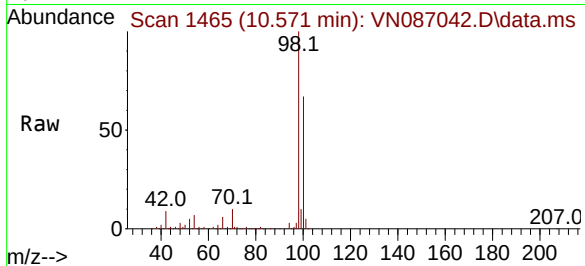




#50
Toluene-d8
Concen: 52.441 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

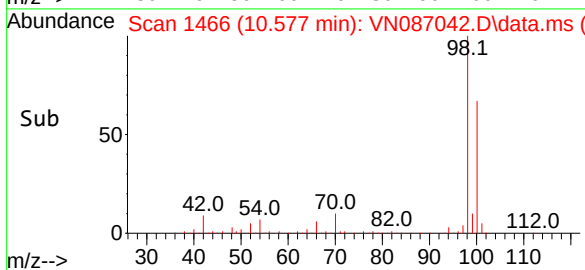
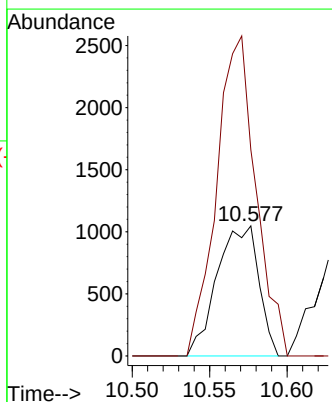
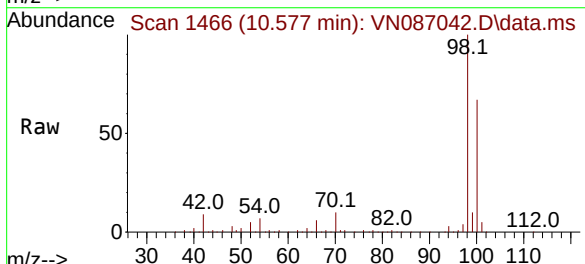
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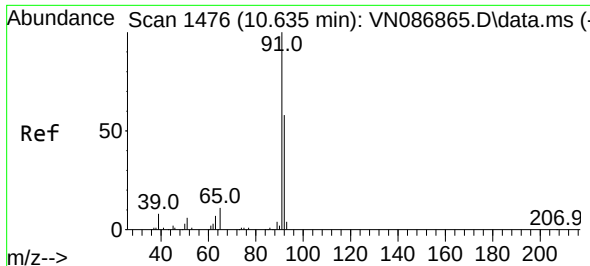
Tgt Ion: 98 Resp: 640406
Ion Ratio Lower Upper
98 100
100 66.7 53.4 80.0



#51
4-Methyl-2-Pentanone
Concen: 0.346 ug/l
RT: 10.577 min Scan# 1466
Delta R.T. 0.129 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

Tgt Ion: 43 Resp: 1958
Ion Ratio Lower Upper
43 100
58 232.5 34.2 51.4#

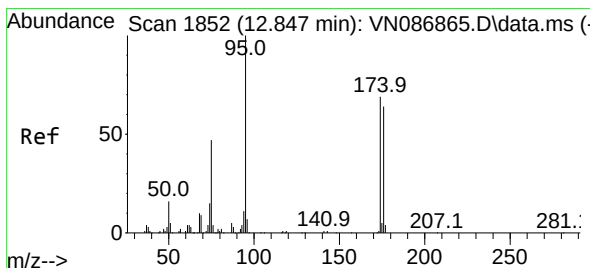
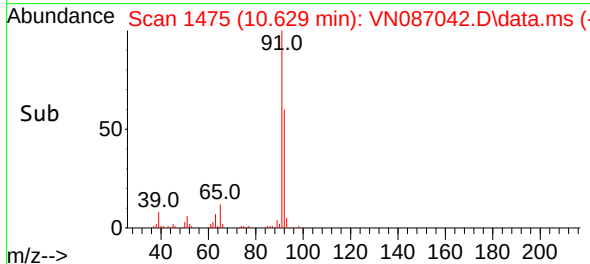
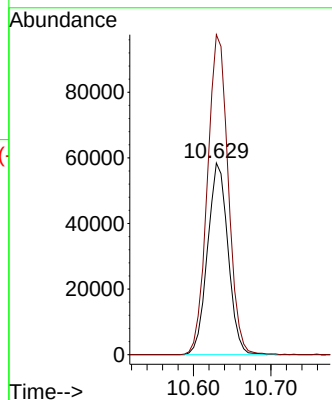
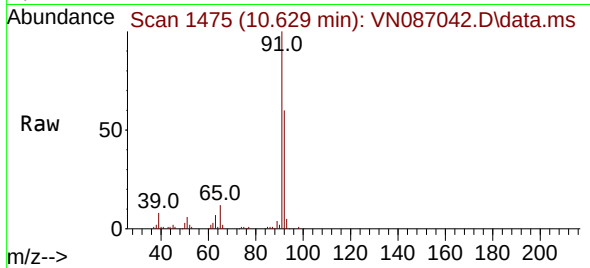




#52
Toluene
Concen: 11.669 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

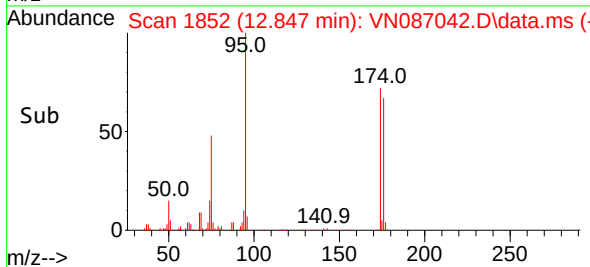
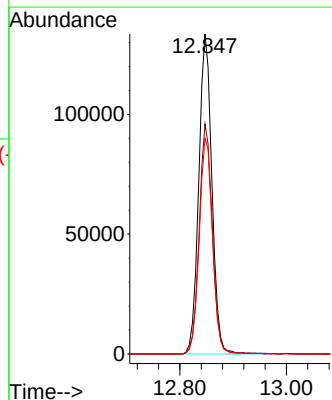
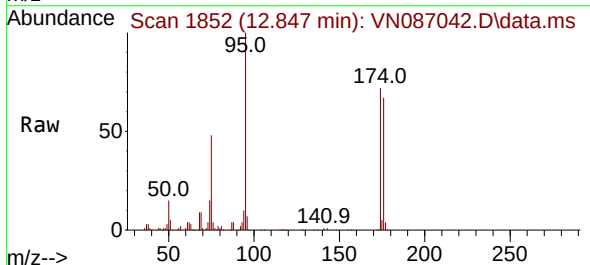
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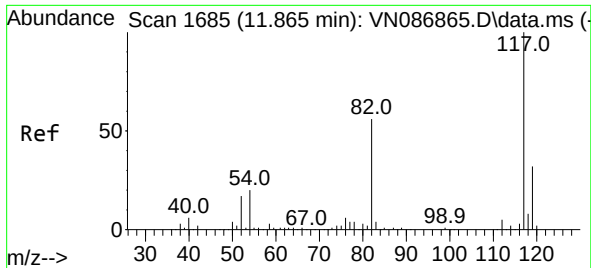
Tgt Ion: 92 Resp: 107188
Ion Ratio Lower Upper
92 100
91 169.6 136.5 204.7



#62
4-Bromofluorobenzene
Concen: 50.346 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

Tgt Ion: 95 Resp: 228423
Ion Ratio Lower Upper
95 100
174 71.7 0.0 141.8
176 68.2 0.0 132.6

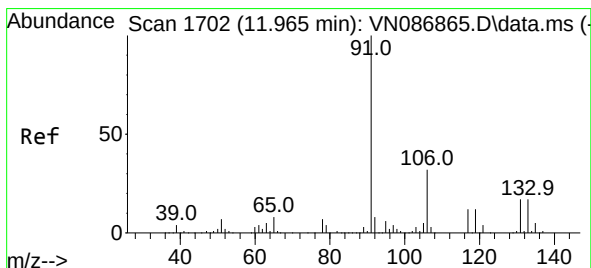
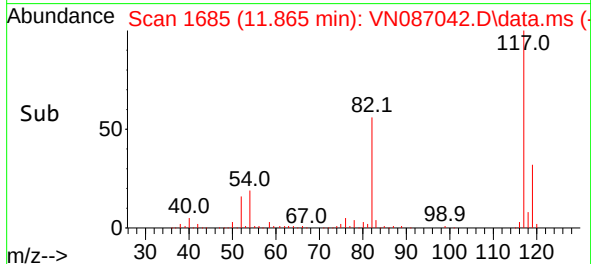
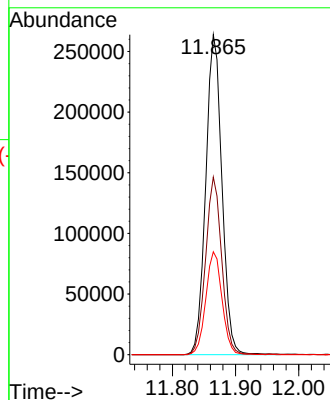
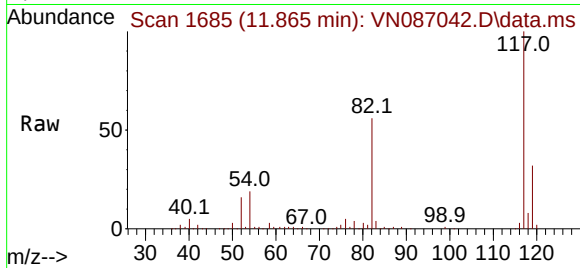




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

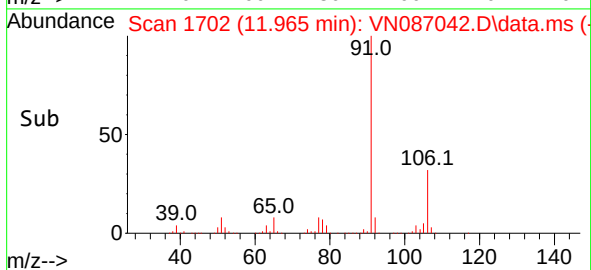
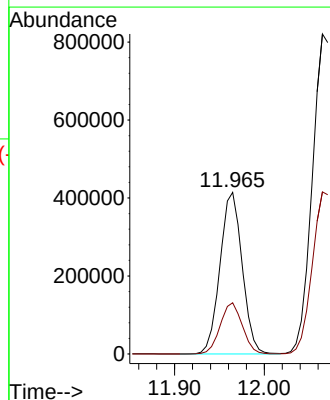
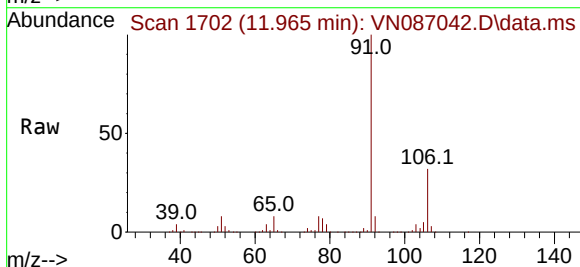
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

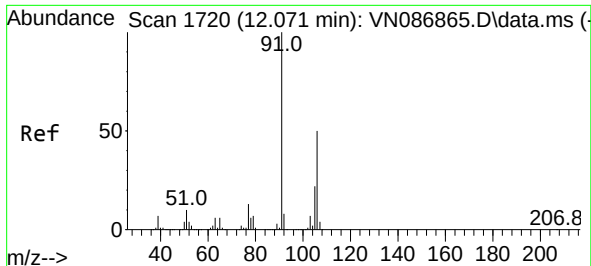
Tgt Ion:117 Resp: 469764
Ion Ratio Lower Upper
117 100
82 55.5 44.6 67.0
119 32.1 25.5 38.3



#67
Ethyl Benzene
Concen: 39.883 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

Tgt Ion: 91 Resp: 711759
Ion Ratio Lower Upper
91 100
106 31.7 25.4 38.2

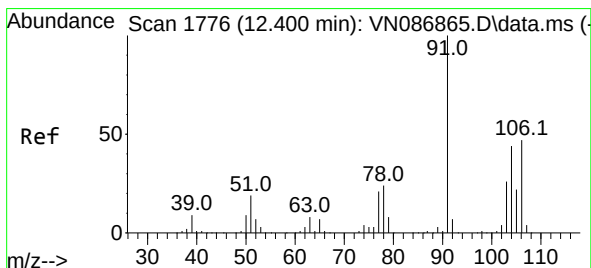
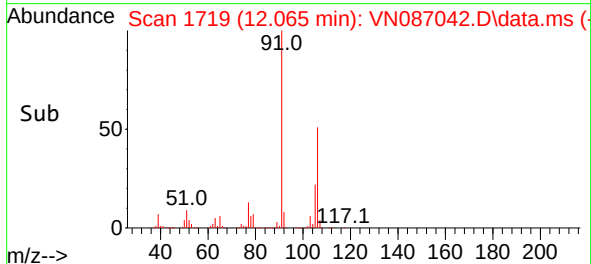
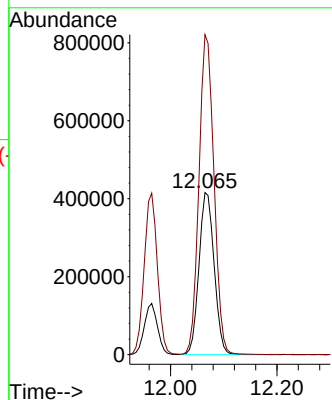
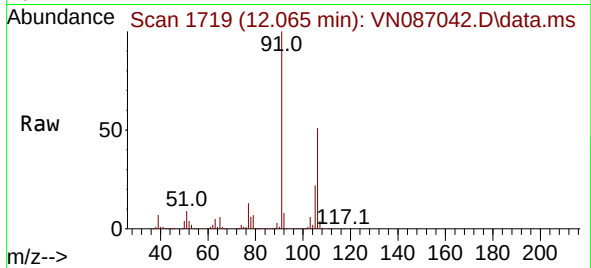




#68
m/p-Xylenes
Concen: 120.046 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

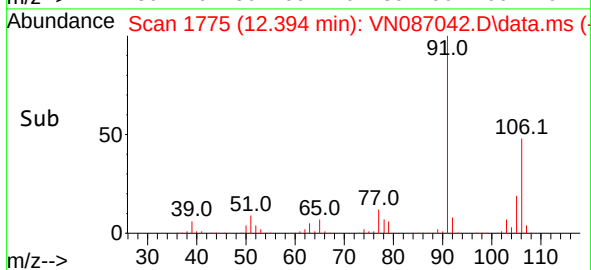
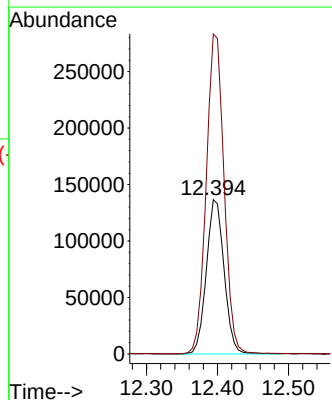
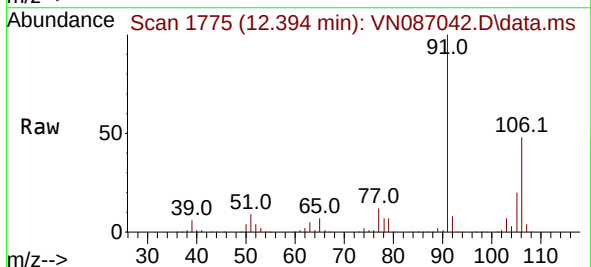
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

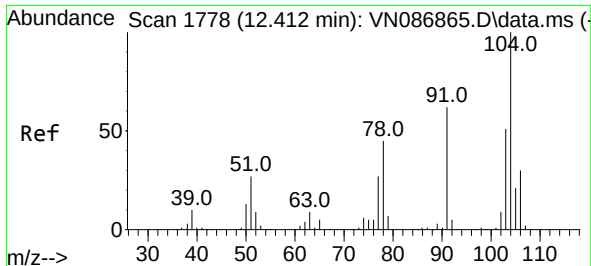
Tgt Ion:106 Resp: 820104
Ion Ratio Lower Upper
106 100
91 195.6 159.4 239.0



#69
o-Xylene
Concen: 36.306 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.006 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

Tgt Ion:106 Resp: 237544
Ion Ratio Lower Upper
106 100
91 207.9 106.1 318.1

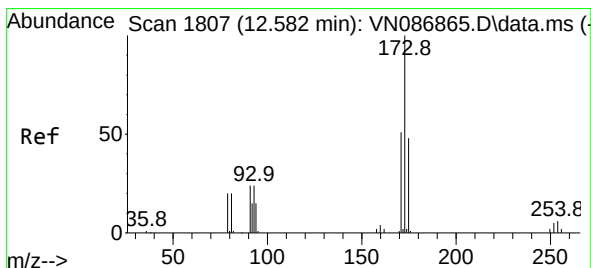
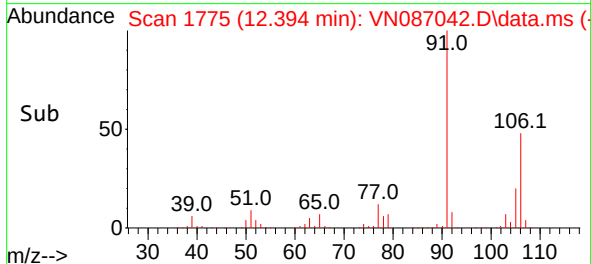
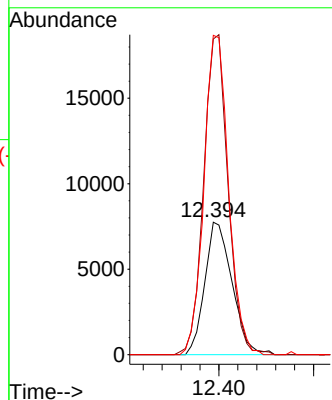
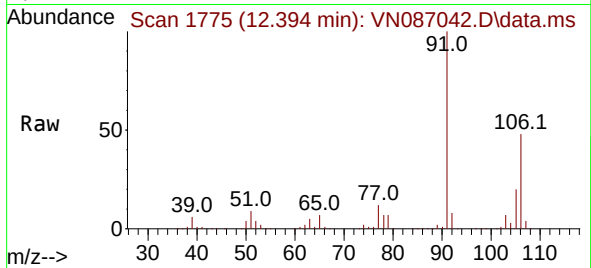




#70
Styrene
Concen: 1.388 ug/l
RT: 12.394 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

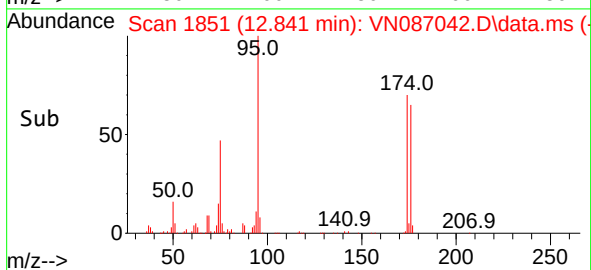
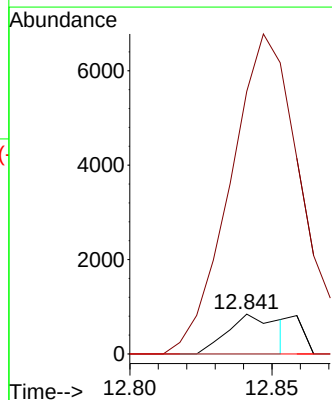
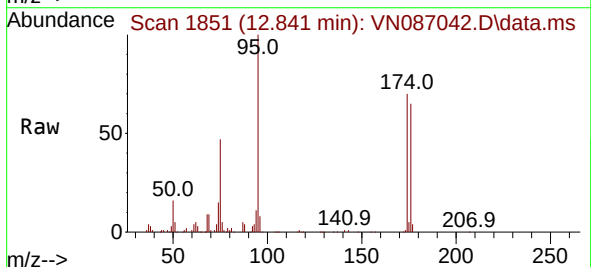
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

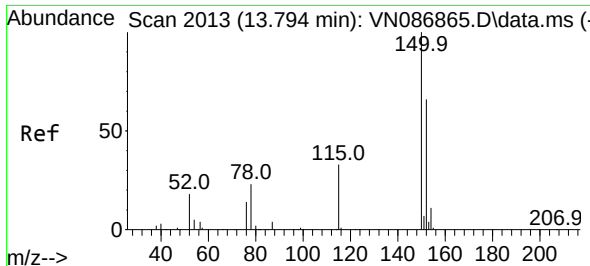
Tgt Ion:104 Resp: 15536
Ion Ratio Lower Upper
104 100
78 215.1 38.5 57.7#
103 217.6 43.1 64.7#



#71
Bromoform
Concen: 0.426 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.259 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

Tgt Ion:173 Resp: 1051
Ion Ratio Lower Upper
173 100
175 984.5 24.1 72.4#
254 0.0 0.0 0.0

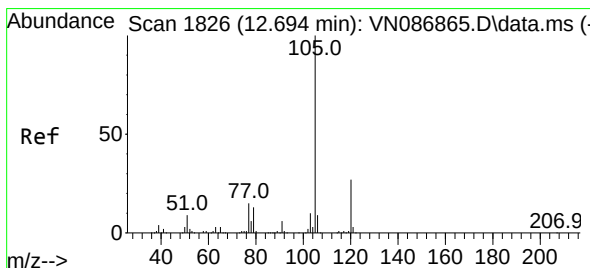
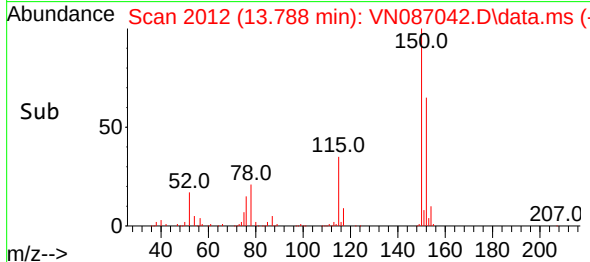
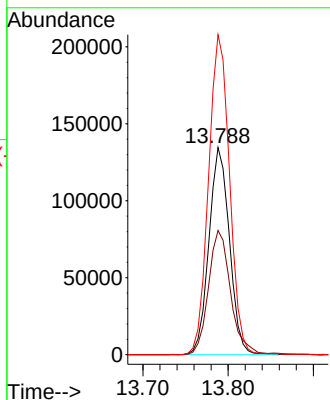
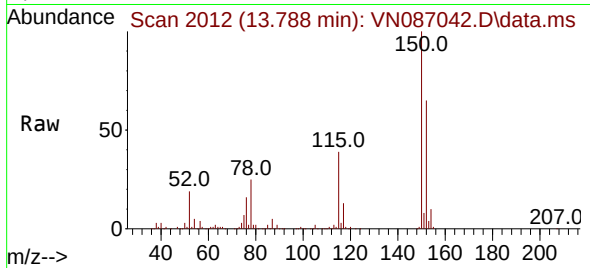




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2013
Delta R.T. -0.006 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

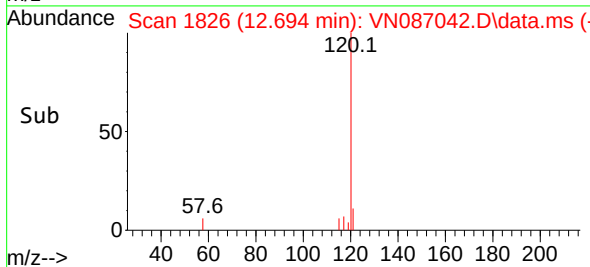
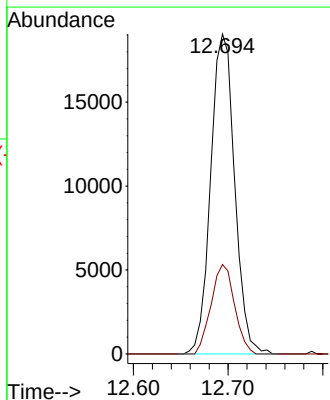
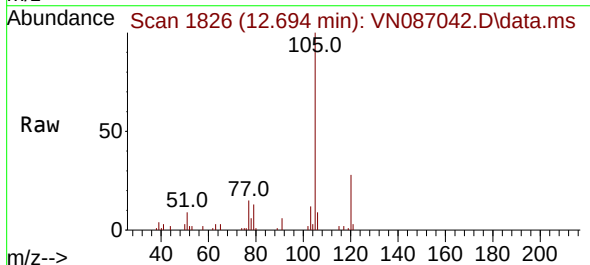
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

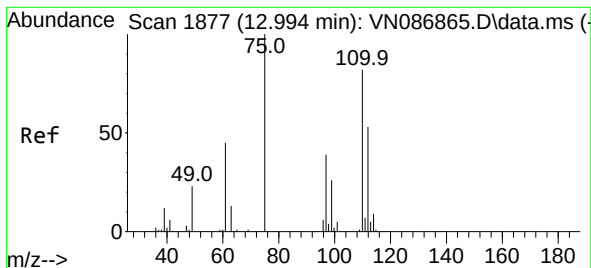
Tgt Ion:152 Resp: 224894
Ion Ratio Lower Upper
152 100
115 65.3 30.1 90.5
150 158.5 0.0 345.0



#73
Isopropylbenzene
Concen: 2.048 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

Tgt Ion:105 Resp: 33551
Ion Ratio Lower Upper
105 100
120 27.3 13.5 40.4





#76

1,2,3-Trichloropropane

Concen: 19.990 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN087042.D

Acq: 16 Jun 2025 19:07

Instrument :

MSVOA_N

ClientSampleId :

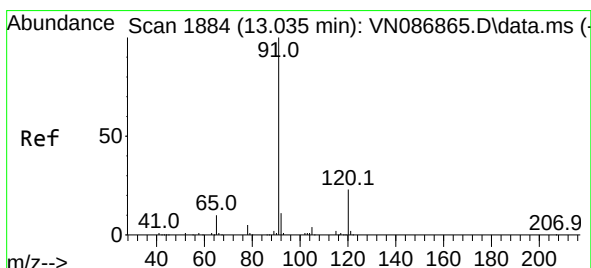
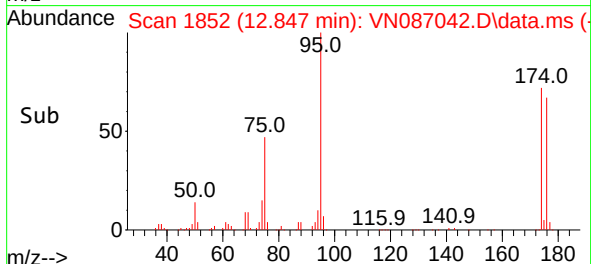
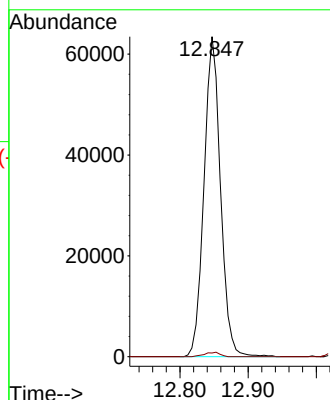
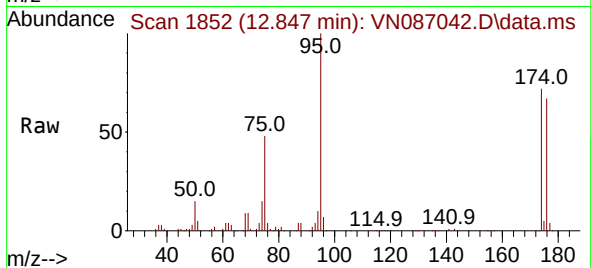
MW-3-20250605DL

Tgt Ion: 75 Resp: 106862

Ion Ratio Lower Upper

75 100

77 1.3 79.3 237.9#



#78

n-propylbenzene

Concen: 4.383 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. -0.000 min

Lab File: VN087042.D

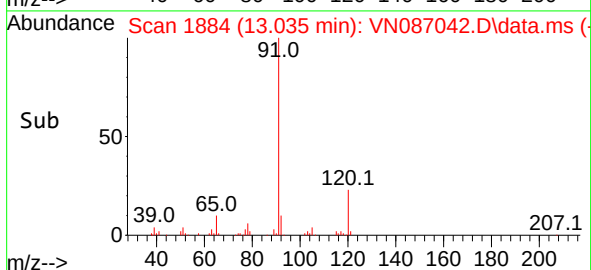
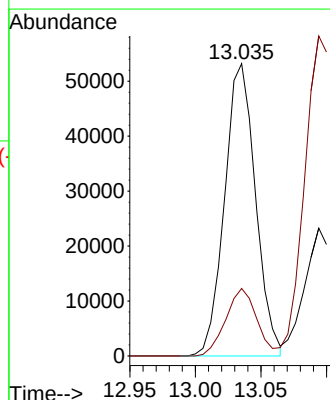
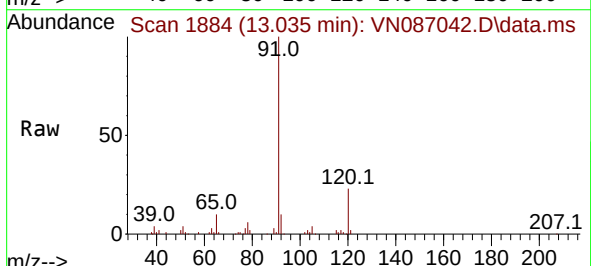
Acq: 16 Jun 2025 19:07

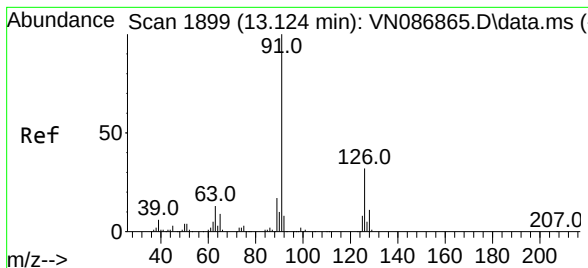
Tgt Ion: 91 Resp: 87269

Ion Ratio Lower Upper

91 100

120 22.9 11.4 34.2

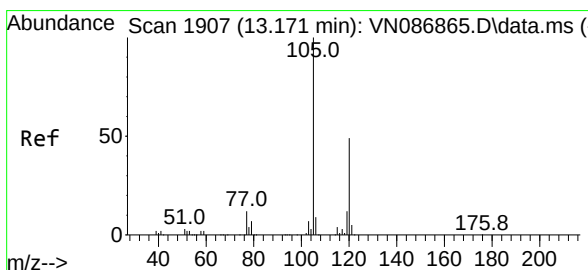
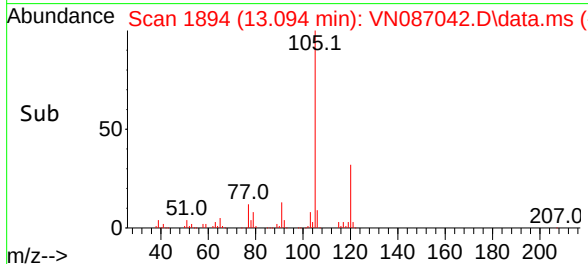
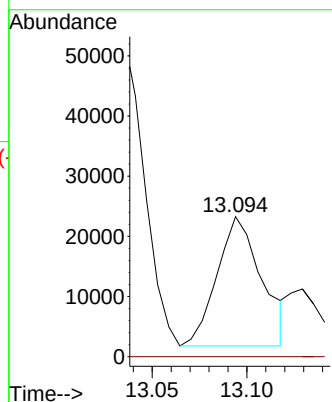
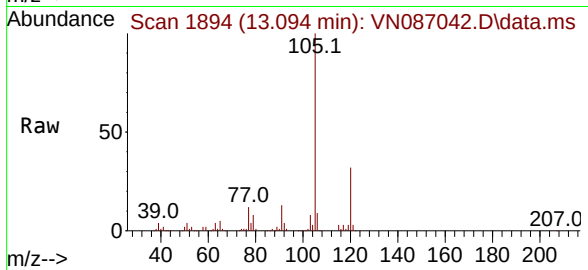




#79
2-Chlorotoluene
Concen: 2.951 ug/l
RT: 13.094 min Scan# 1899
Delta R.T. -0.029 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

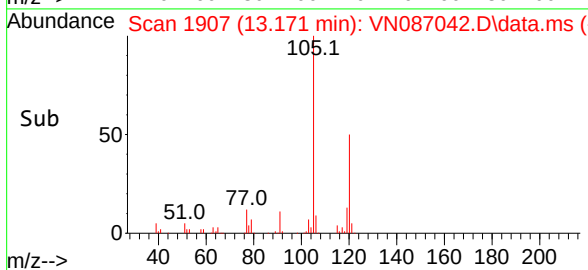
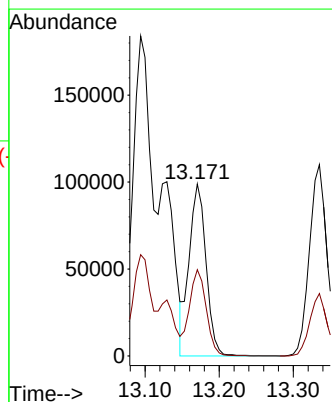
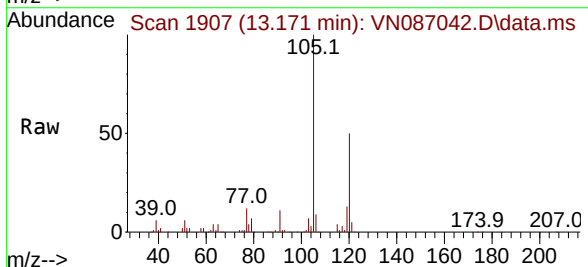
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

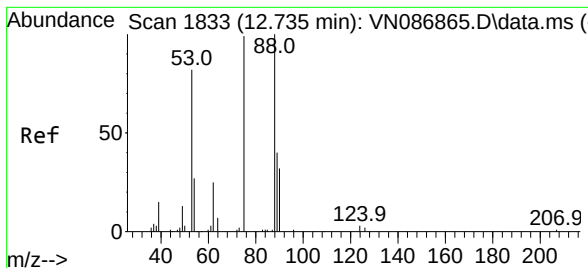
Tgt Ion: 91 Resp: 35238
Ion Ratio Lower Upper
91 100
126 0.0 16.2 48.5#



#80
1,3,5-Trimethylbenzene
Concen: 11.688 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

Tgt Ion:105 Resp: 158097
Ion Ratio Lower Upper
105 100
120 50.0 24.9 74.6

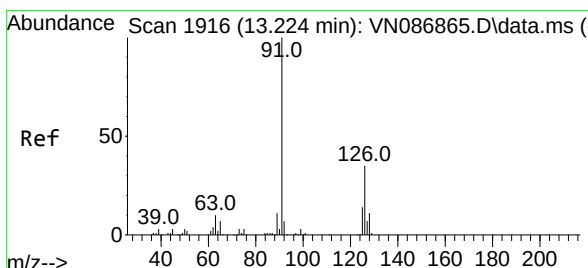
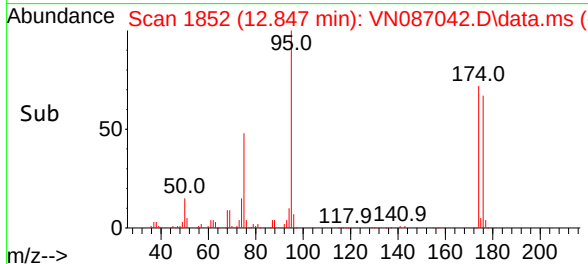
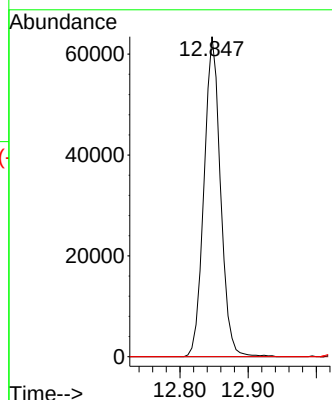
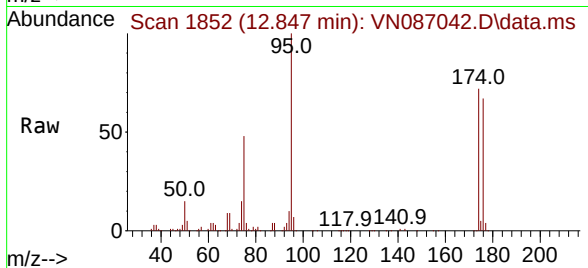




#81
trans-1,4-Dichloro-2-butene
Concen: 46.016 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

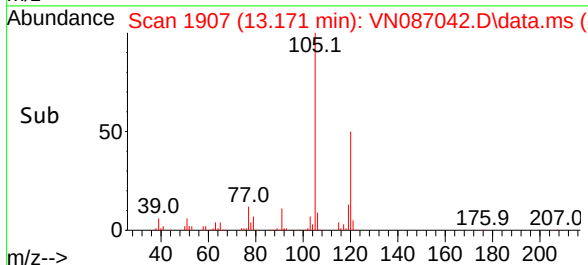
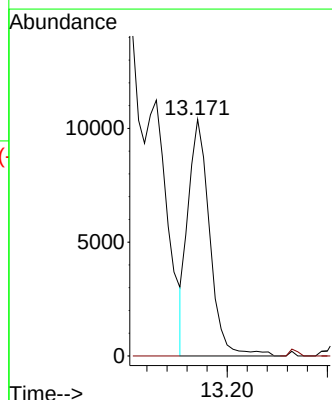
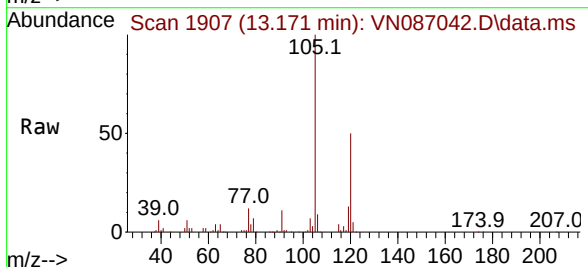
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

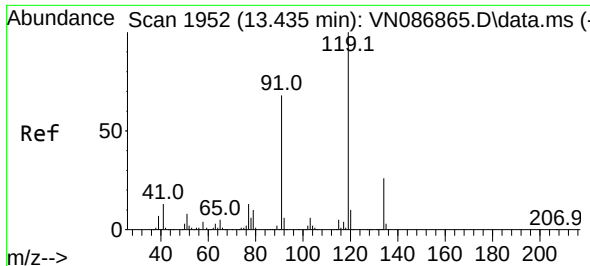
Tgt Ion: 75 Resp: 106862
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.0 36.7 55.1#



#82
4-Chlorotoluene
Concen: 1.286 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.053 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

Tgt Ion: 91 Resp: 15538
Ion Ratio Lower Upper
91 100
126 0.0 16.7 50.1#

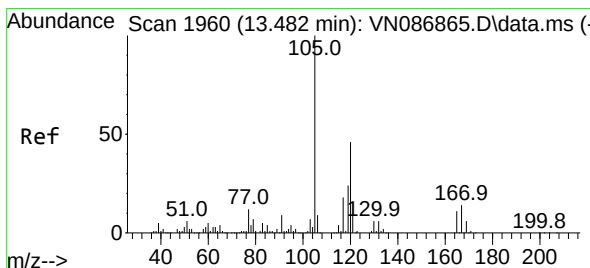
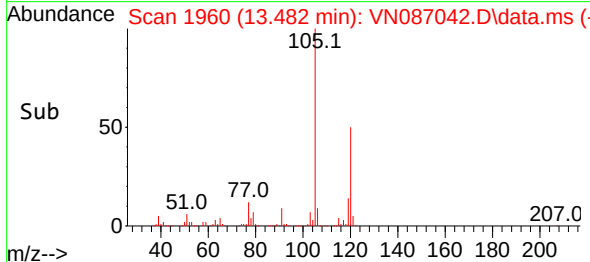
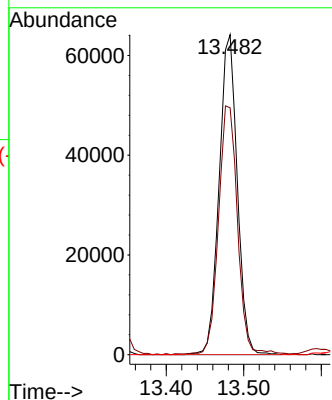
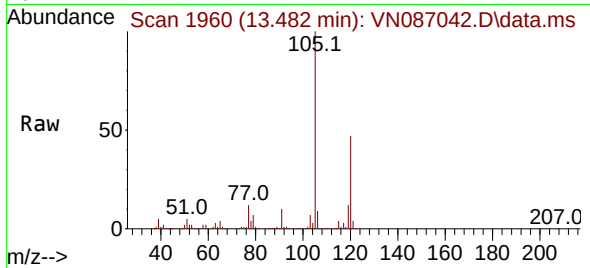




#83
tert-Butylbenzene
Concen: 8.439 ug/l
RT: 13.482 min Scan# 1952
Delta R.T. 0.047 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

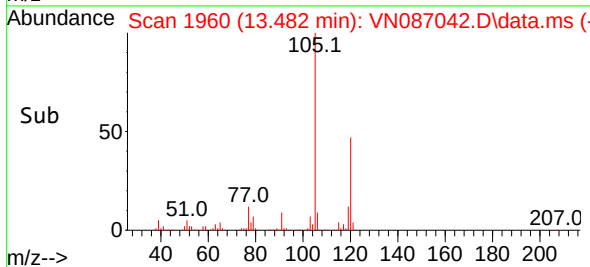
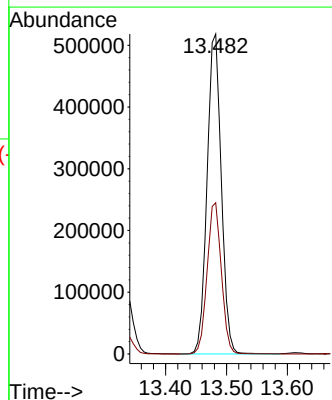
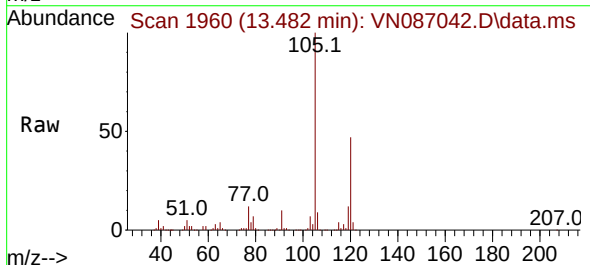
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

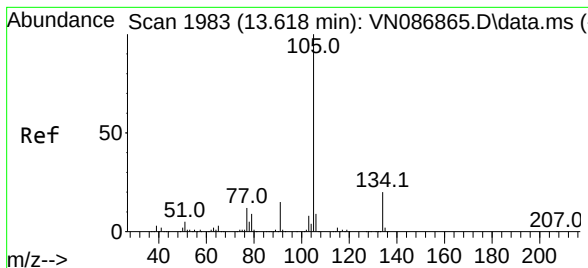
Tgt Ion:119 Resp: 104494
Ion Ratio Lower Upper
119 100
91 81.9 32.1 96.5
134 0.0 13.4 40.1#



#84
1,2,4-Trimethylbenzene
Concen: 61.884 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

Tgt Ion:105 Resp: 839398
Ion Ratio Lower Upper
105 100
120 47.5 23.2 69.6





#85

sec-Butylbenzene

Concen: 46.681 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. -0.135 min

Lab File: VN087042.D

Acq: 16 Jun 2025 19:07

Instrument :

MSVOA_N

ClientSampleId :

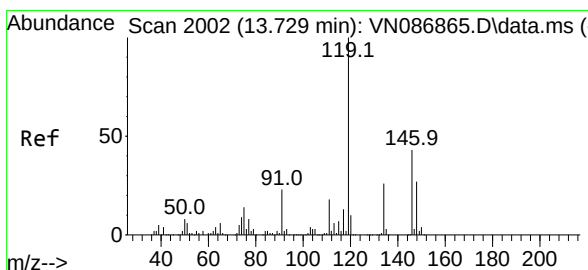
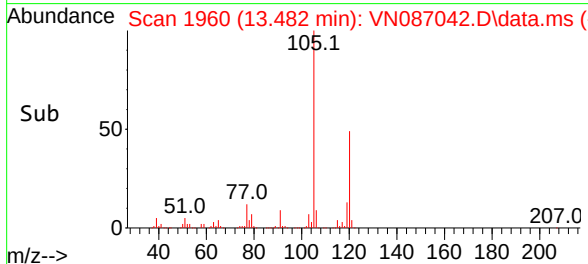
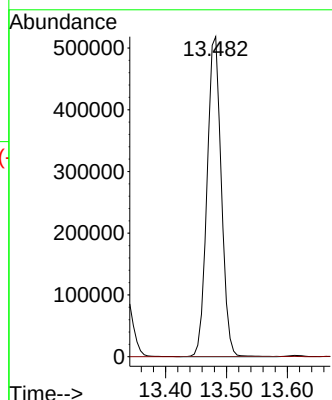
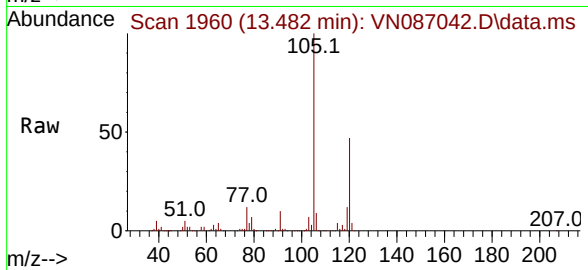
MW-3-20250605DL

Tgt Ion:105 Resp: 839398

Ion Ratio Lower Upper

105 100

134 0.0 10.0 30.0#



#86

p-Isopropyltoluene

Concen: 0.286 ug/l

RT: 13.670 min Scan# 1992

Delta R.T. -0.059 min

Lab File: VN087042.D

Acq: 16 Jun 2025 19:07

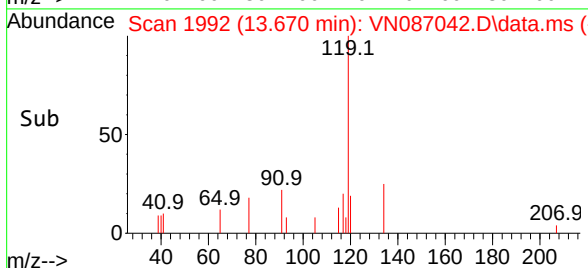
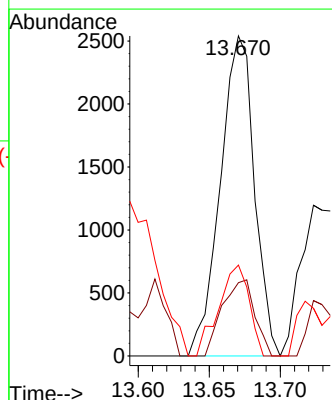
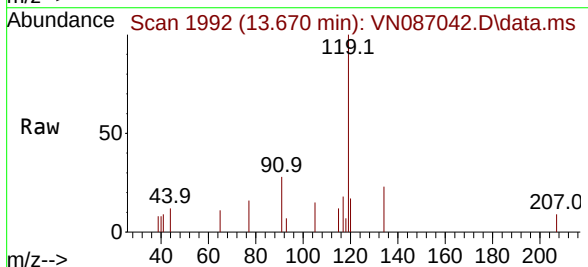
Tgt Ion:119 Resp: 4248

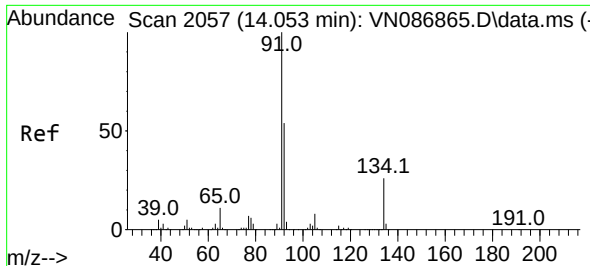
Ion Ratio Lower Upper

119 100

134 22.7 13.5 40.4

91 0.0 11.5 34.4#

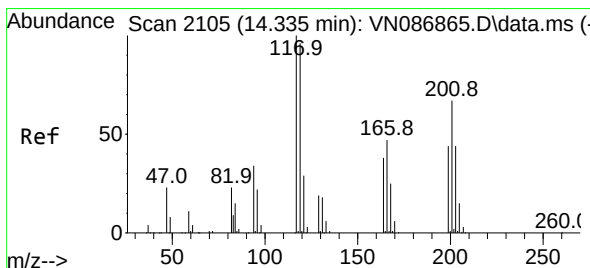
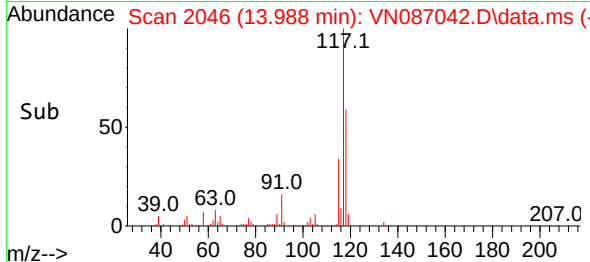
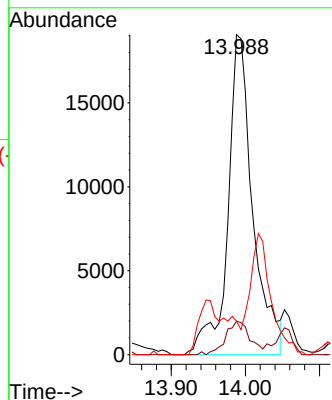
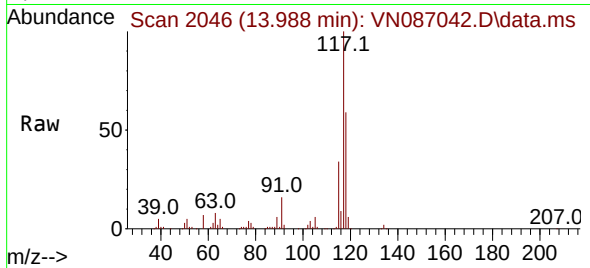




#89
n-Butylbenzene
Concen: 3.092 ug/l
RT: 13.988 min Scan# 2057
Delta R.T. -0.065 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

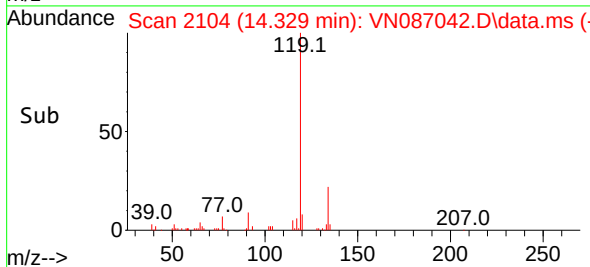
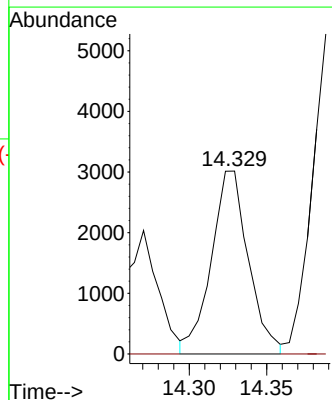
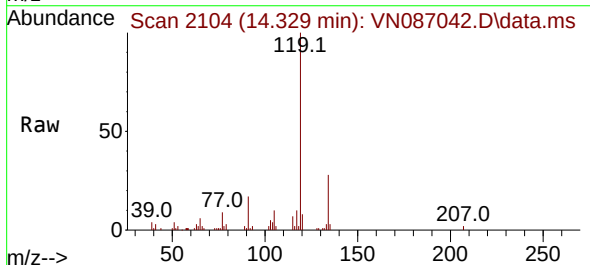
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

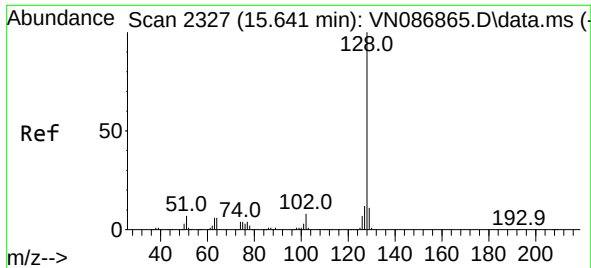
Tgt Ion: 91 Resp: 44519
Ion Ratio Lower Upper
91 100
92 10.2 27.5 82.4#
134 0.0 13.0 39.0#



#90
Hexachloroethane
Concen: 1.991 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

Tgt Ion: 117 Resp: 5017
Ion Ratio Lower Upper
117 100
201 0.0 33.2 99.6#





#95

Naphthalene

Concen: 17.701 ug/l

RT: 15.635 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN087042.D

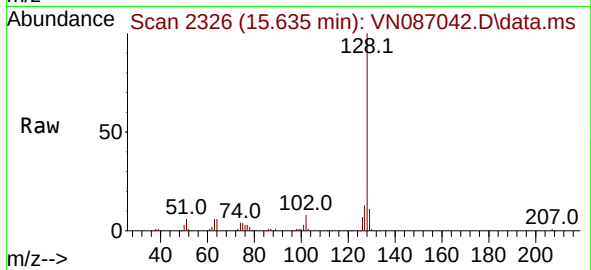
Acq: 16 Jun 2025 19:07

Instrument :

MSVOA_N

ClientSampleId :

MW-3-20250605DL



Tgt Ion:128 Resp: 298819

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.2

129 10.8 8.8 13.2

