

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061325\
 Data File : VN087013.D
 Acq On : 13 Jun 2025 19:29
 Operator : JC\MD
 Sample : Q2268-08DL 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3-20250605DL

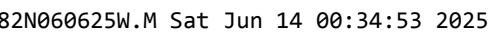
Quant Time: Jun 14 00:34:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

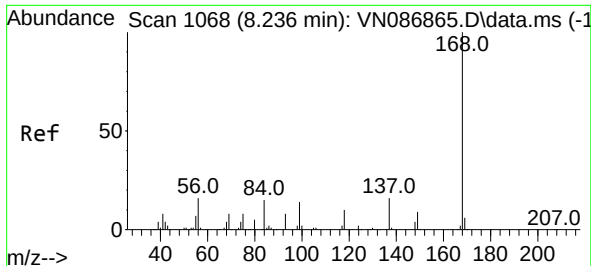
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.236	168	277230	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	560539	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	507575	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	242990	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	199612	53.778	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery	= 107.560%		
35) Dibromofluoromethane	8.177	113	169384	50.990	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery	= 101.980%		
50) Toluene-d8	10.571	98	688735	52.373	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery	= 104.740%		
62) 4-Bromofluorobenzene	12.847	95	250017	51.172	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery	= 102.340%		
Target Compounds						Qvalue
16) Acetone	4.471	43	1449	0.736	ug/l	92
20) Methylene Chloride	5.318	84	987	0.268	ug/l #	69
31) Cyclohexane	8.236	56	5107	0.848	ug/l #	1
36) 1,1-Dichloropropene	8.236	75	21395	4.322	ug/l #	48
38) Carbon Tetrachloride	8.236	117	27024	5.561	ug/l #	17
39) Methylcyclohexane	9.606	83	3526	0.520	ug/l	90
48) Methyl methacrylate	9.606	41	1863	0.400	ug/l #	35
51) 4-Methyl-2-Pentanone	10.571	43	2658	0.437	ug/l #	1
52) Toluene	10.630	92	116427	11.770	ug/l	98
55) 1,1,2-Trichloroethane	11.006	97	783	0.206	ug/l #	14
67) Ethyl Benzene	11.965	91	761762	39.505	ug/l	100
68) m/p-Xylenes	12.071	106	863174	116.939	ug/l	99
69) o-Xylene	12.400	106	250807	35.477	ug/l	99
70) Styrene	12.400	104	16345	1.351	ug/l #	1
73) Isopropylbenzene	12.694	105	36503	2.062	ug/l	98
76) 1,2,3-Trichloropropane	12.847	75	114339	19.796	ug/l #	1
78) n-propylbenzene	13.035	91	96366	4.480	ug/l	99
79) 2-Chlorotoluene	13.129	91	15931	1.235	ug/l #	42
80) 1,3,5-Trimethylbenzene	13.171	105	158077	10.816	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.847	75	114339	45.569	ug/l #	16
82) 4-Chlorotoluene	13.171	91	16238	1.244	ug/l #	41
83) tert-Butylbenzene	13.482	119	111110	8.305	ug/l #	72
84) 1,2,4-Trimethylbenzene	13.482	105	891372	60.821	ug/l	99
85) sec-Butylbenzene	13.482	105	891372	45.880	ug/l #	56
86) p-Isopropyltoluene	13.671	119	4564	0.284	ug/l #	76
89) n-Butylbenzene	13.994	91	35086	2.255	ug/l #	45
90) Hexachloroethane	14.329	117	4406	1.619	ug/l #	17
92) 1,2-Dibromo-3-Chloropr...	14.688	75	314	0.219	ug/l #	2
95) Naphthalene	15.641	128	318323	17.453	ug/l	100

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

Quant Time: Jun 14 00:34:41 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

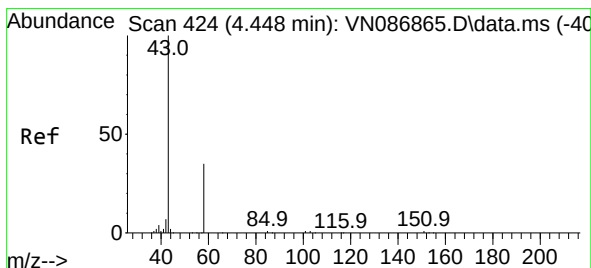
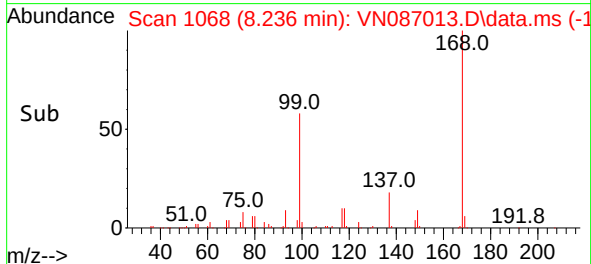
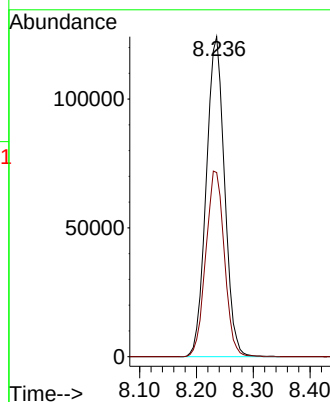
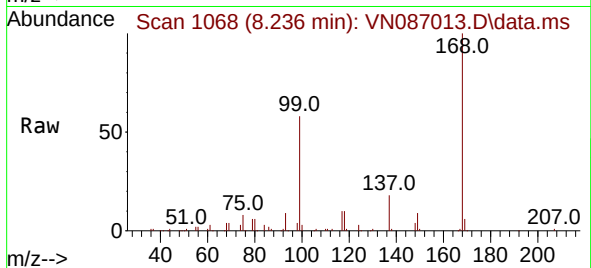




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087013.D
Acq: 13 Jun 2025 19:29

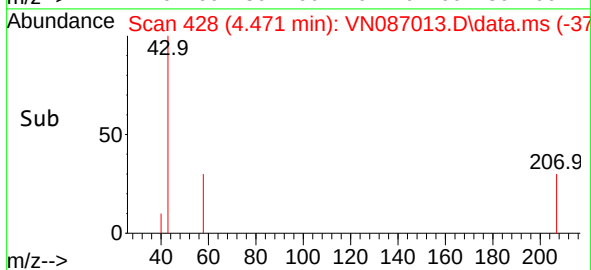
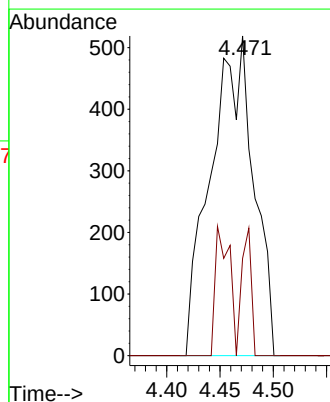
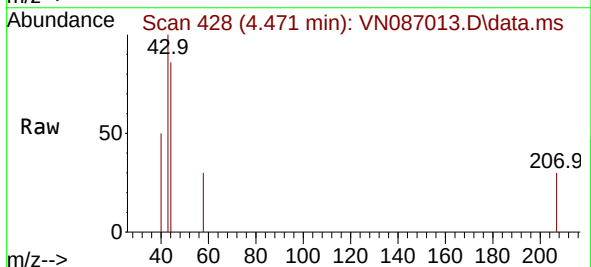
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

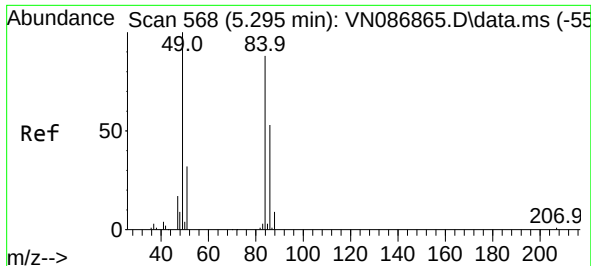
Tgt Ion:168 Resp: 277230
Ion Ratio Lower Upper
168 100
99 57.6 49.1 73.7



#16
Acetone
Concen: 0.736 ug/l
RT: 4.471 min Scan# 428
Delta R.T. 0.024 min
Lab File: VN087013.D
Acq: 13 Jun 2025 19:29

Tgt Ion: 43 Resp: 1449
Ion Ratio Lower Upper
43 100
58 30.4 28.0 42.0





#20

Methylene Chloride

Concen: 0.268 ug/l

RT: 5.318 min Scan# 51

Delta R.T. 0.024 min

Lab File: VN087013.D

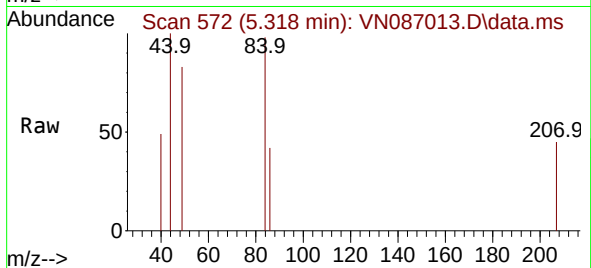
Acq: 13 Jun 2025 19:29

Instrument :

MSVOA_N

ClientSampleId :

MW-3-20250605DL



Tgt Ion: 84 Resp: 987

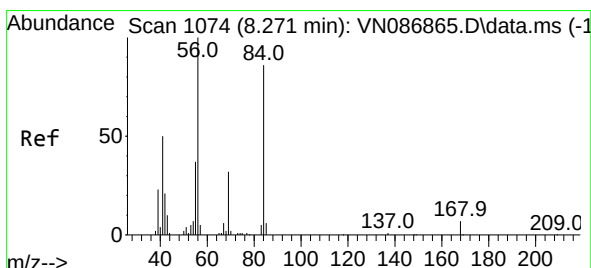
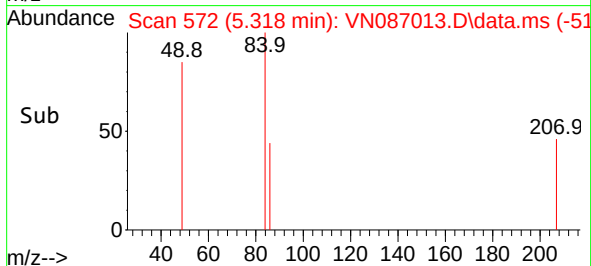
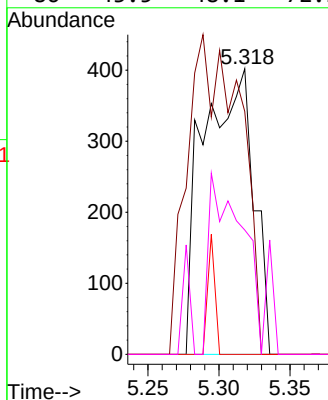
Ion Ratio Lower Upper

84 100

49 85.1 90.5 135.7#

51 0.0 28.5 42.7#

86 43.5 48.1 72.1#



#31

Cyclohexane

Concen: 0.848 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.035 min

Lab File: VN087013.D

Acq: 13 Jun 2025 19:29

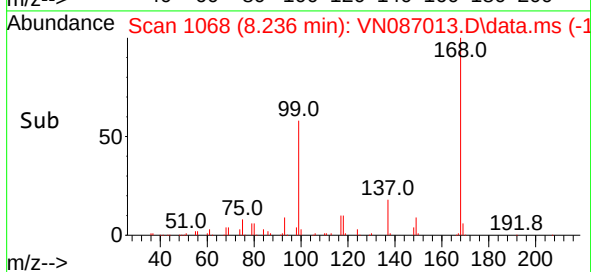
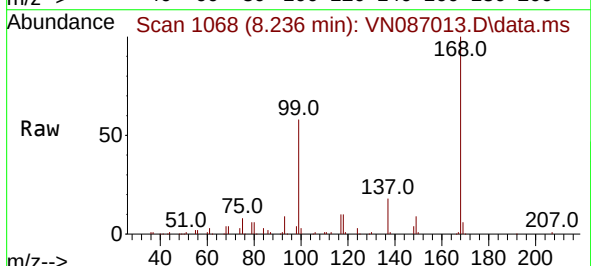
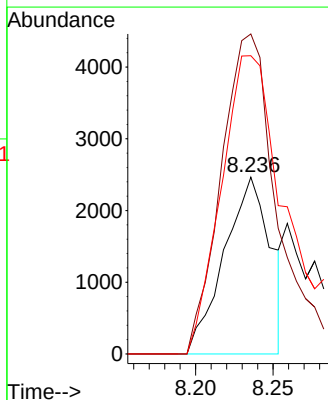
Tgt Ion: 56 Resp: 5107

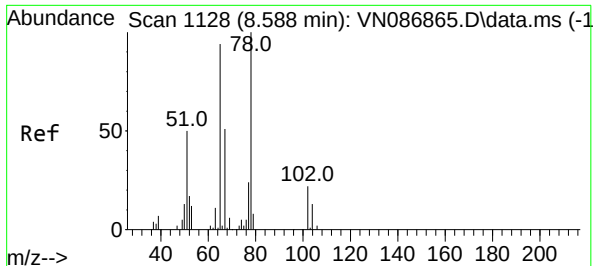
Ion Ratio Lower Upper

56 100

69 180.9 25.4 38.0#

84 168.6 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 53.778 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.000 min

Lab File: VN087013.D

Acq: 13 Jun 2025 19:29

Instrument :

MSVOA_N

ClientSampleId :

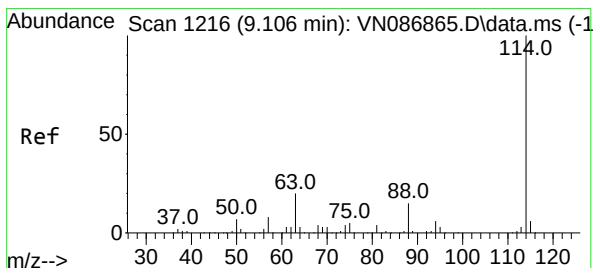
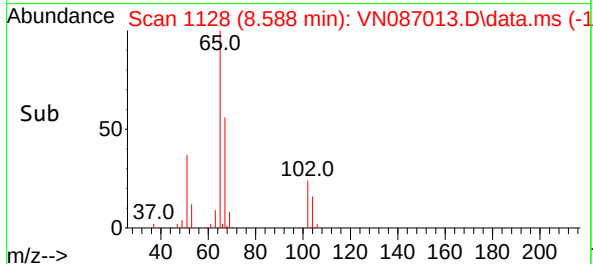
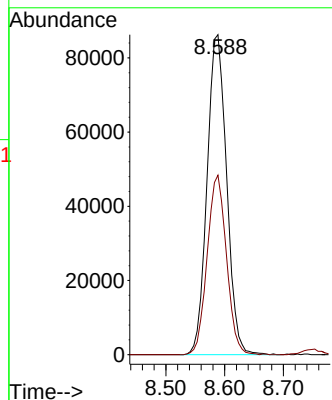
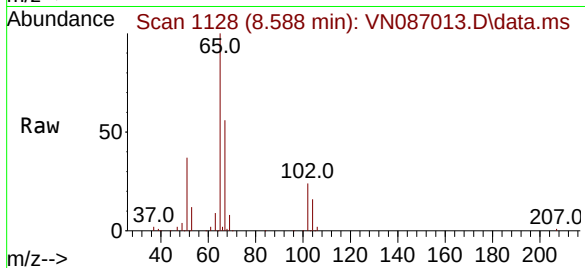
MW-3-20250605DL

Tgt Ion: 65 Resp: 199612

Ion Ratio Lower Upper

65 100

67 55.2 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN087013.D

Acq: 13 Jun 2025 19:29

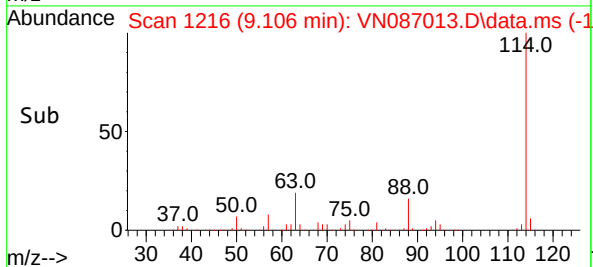
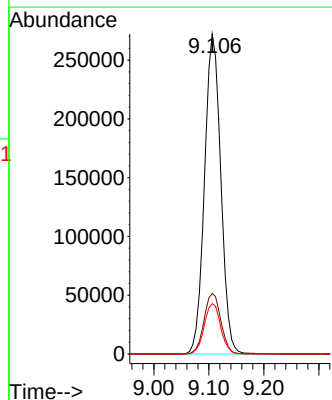
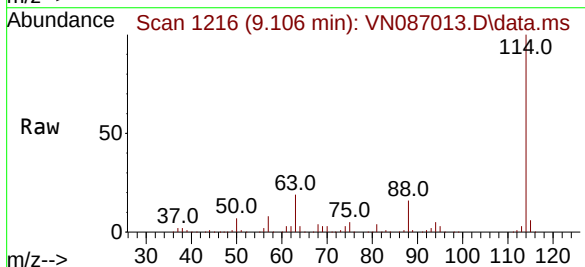
Tgt Ion: 114 Resp: 560539

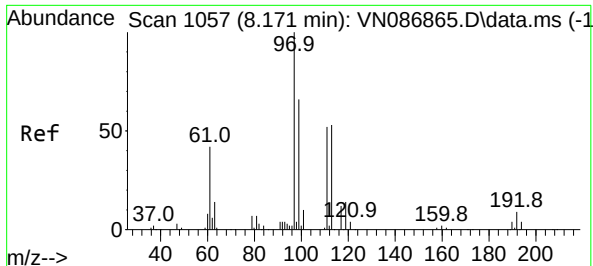
Ion Ratio Lower Upper

114 100

63 18.9 0.0 39.6

88 15.7 0.0 30.2





#35

Dibromofluoromethane

Concen: 50.990 ug/l

RT: 8.177 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN087013.D

Acq: 13 Jun 2025 19:29

Instrument :

MSVOA_N

ClientSampleId :

MW-3-20250605DL

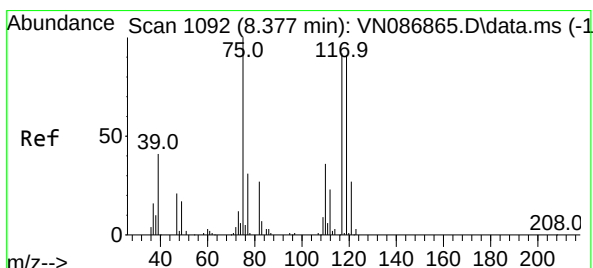
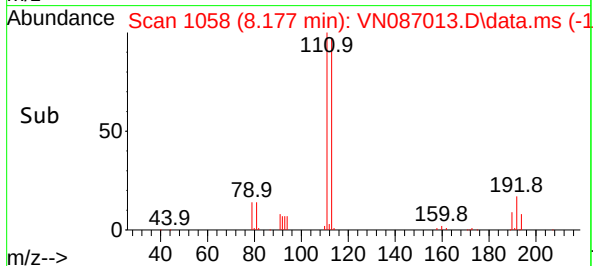
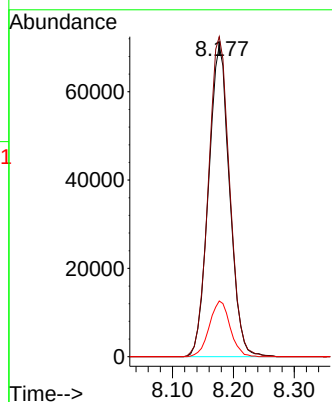
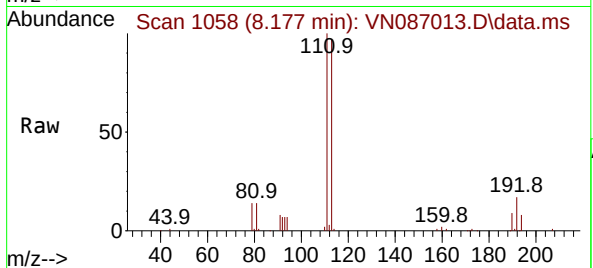
Tgt Ion:113 Resp: 169384

Ion Ratio Lower Upper

113 100

111 103.6 84.2 126.2

192 17.6 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.322 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VN087013.D

Acq: 13 Jun 2025 19:29

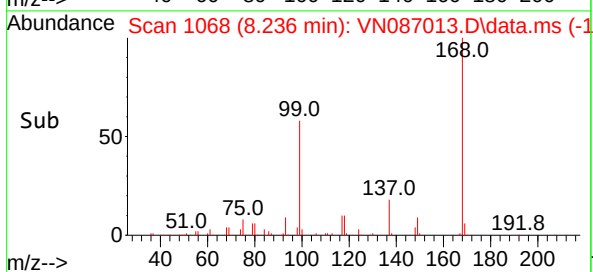
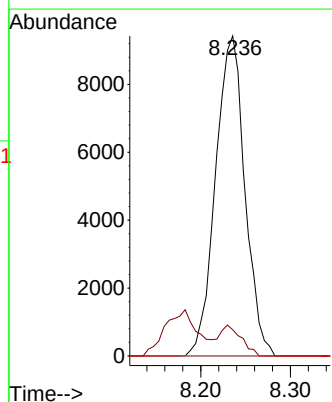
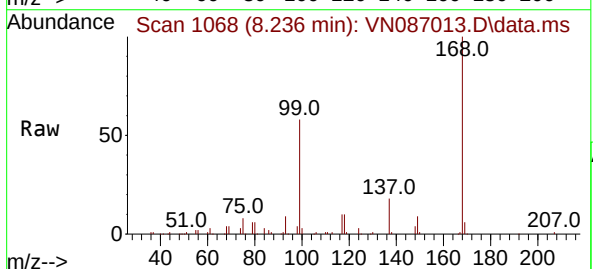
Tgt Ion: 75 Resp: 21395

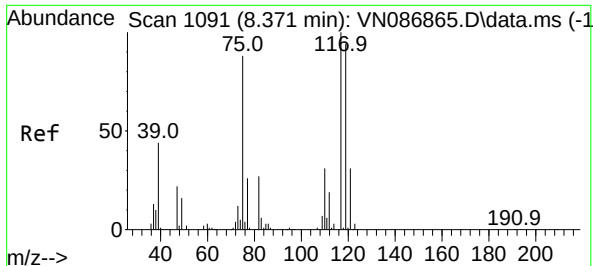
Ion Ratio Lower Upper

75 100

110 7.3 17.6 52.9#

77 0.0 25.3 37.9#

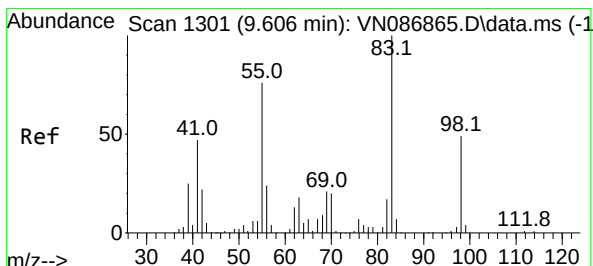
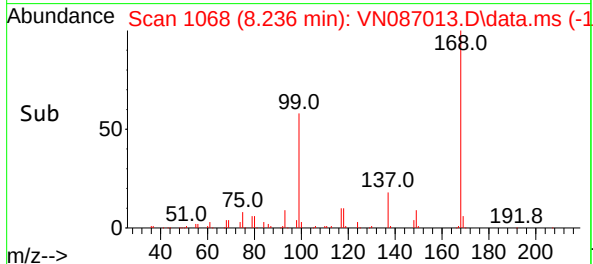
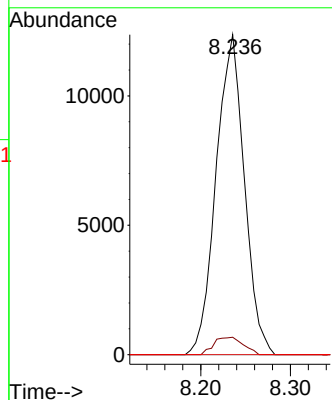
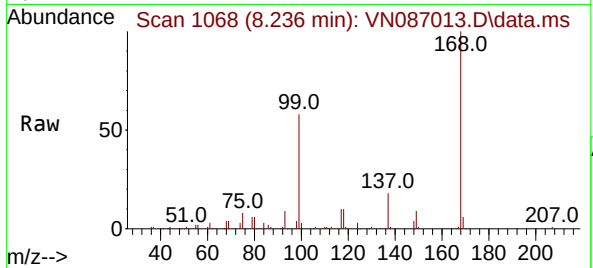




#38
Carbon Tetrachloride
Concen: 5.561 ug/l
RT: 8.236 min Scan# 1091
Delta R.T. -0.135 min
Lab File: VN087013.D
Acq: 13 Jun 2025 19:29

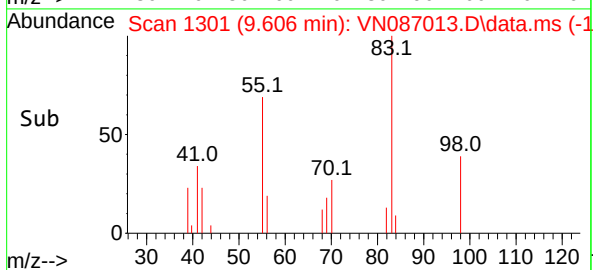
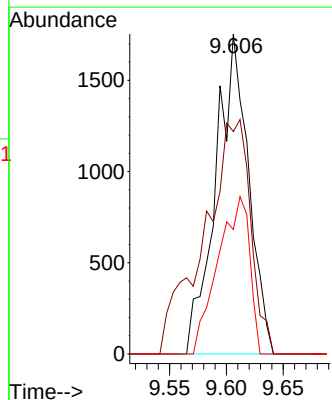
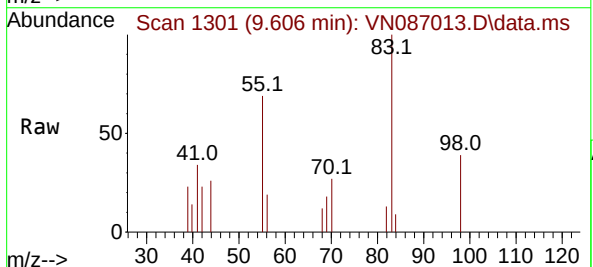
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

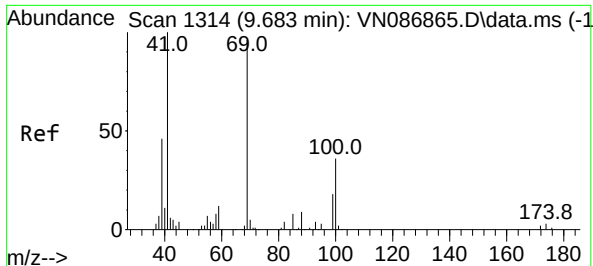
Tgt Ion:117 Resp: 27024
Ion Ratio Lower Upper
117 100
119 5.4 75.0 112.6#
121 0.0 24.9 37.3#



#39
Methylcyclohexane
Concen: 0.520 ug/l
RT: 9.606 min Scan# 1301
Delta R.T. 0.000 min
Lab File: VN087013.D
Acq: 13 Jun 2025 19:29

Tgt Ion: 83 Resp: 3526
Ion Ratio Lower Upper
83 100
55 69.5 61.0 91.6
98 38.9 38.9 58.3





#48

Methyl methacrylate

Concen: 0.400 ug/l

RT: 9.606 min Scan# 1301

Delta R.T. -0.076 min

Lab File: VN087013.D

Acq: 13 Jun 2025 19:29

Instrument :

MSVOA_N

ClientSampleId :

MW-3-20250605DL

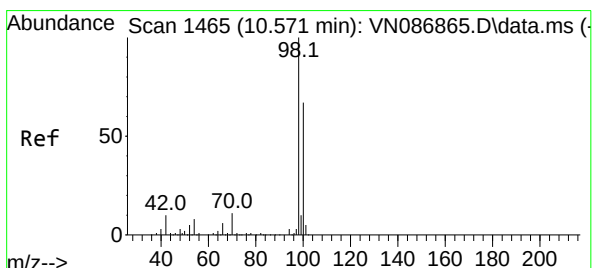
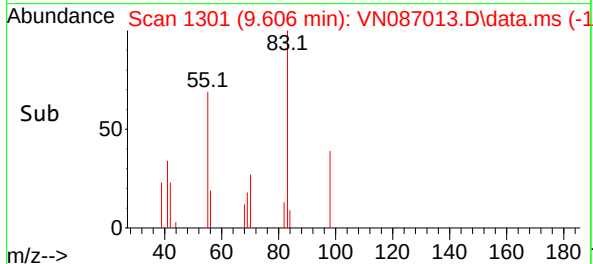
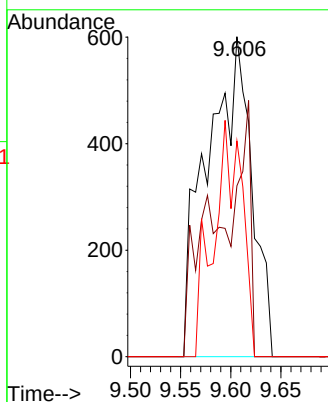
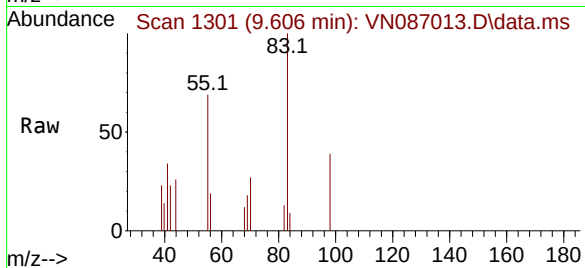
Tgt Ion: 41 Resp: 1863

Ion Ratio Lower Upper

41 100

69 0.0 74.6 112.0#

39 47.1 40.2 60.4



#50

Toluene-d8

Concen: 52.373 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN087013.D

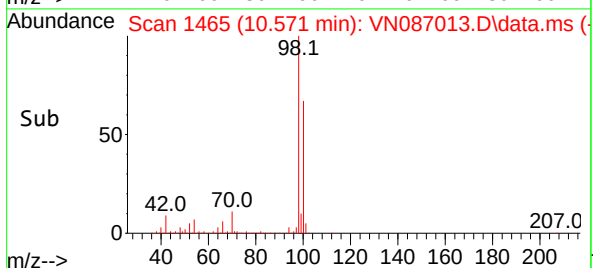
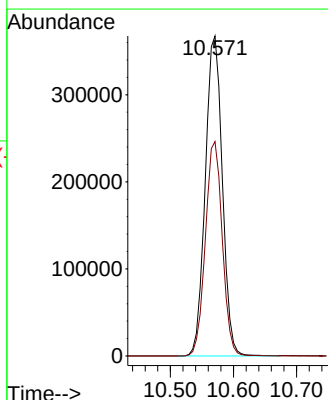
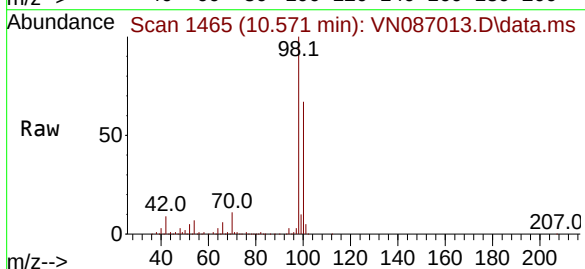
Acq: 13 Jun 2025 19:29

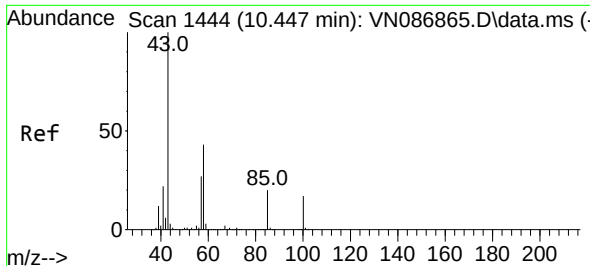
Tgt Ion: 98 Resp: 688735

Ion Ratio Lower Upper

98 100

100 66.4 53.4 80.0

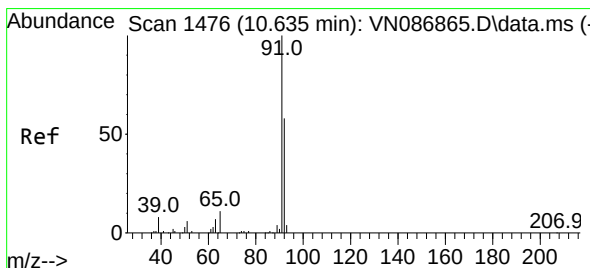
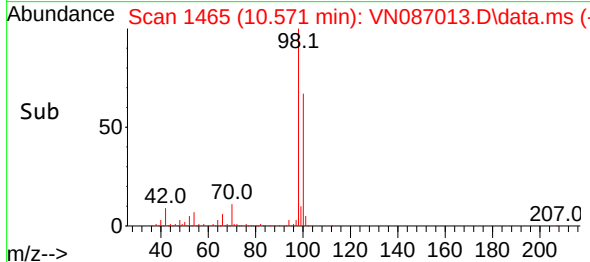
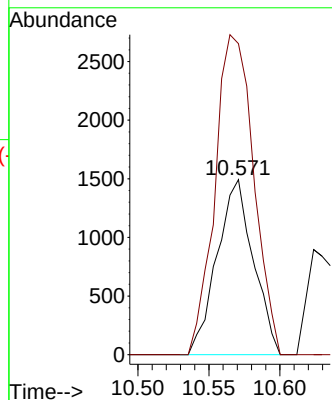
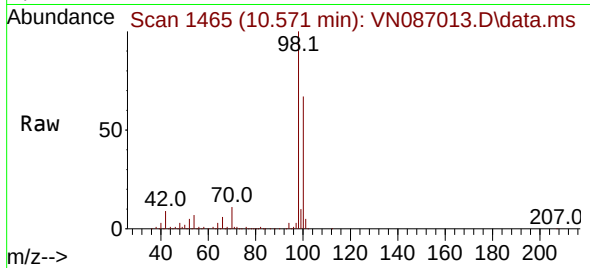




#51
4-Methyl-2-Pentanone
Concen: 0.437 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.124 min
Lab File: VN087013.D
Acq: 13 Jun 2025 19:29

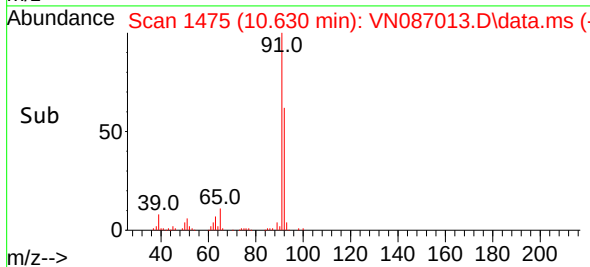
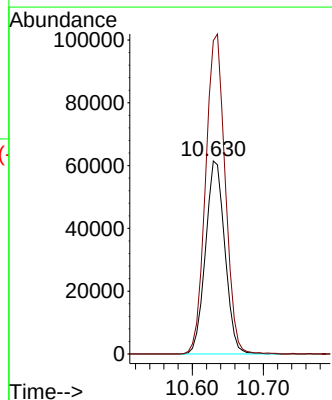
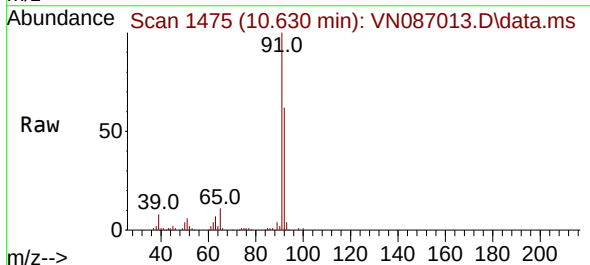
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

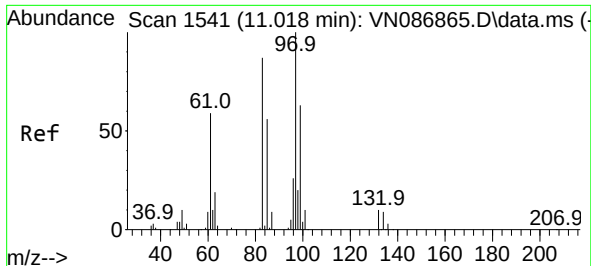
Tgt Ion: 43 Resp: 2658
Ion Ratio Lower Upper
43 100
58 194.7 34.2 51.4#



#52
Toluene
Concen: 11.770 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087013.D
Acq: 13 Jun 2025 19:29

Tgt Ion: 92 Resp: 116427
Ion Ratio Lower Upper
92 100
91 167.5 136.5 204.7

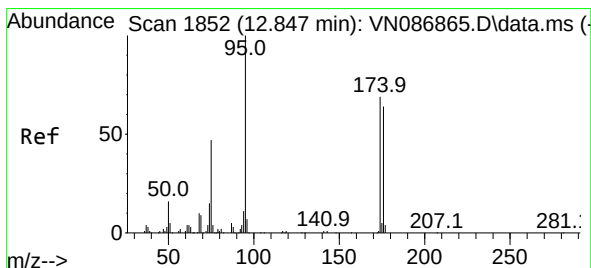
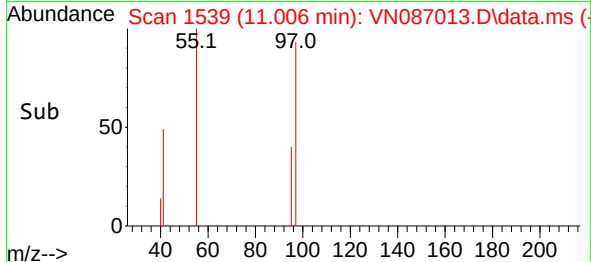
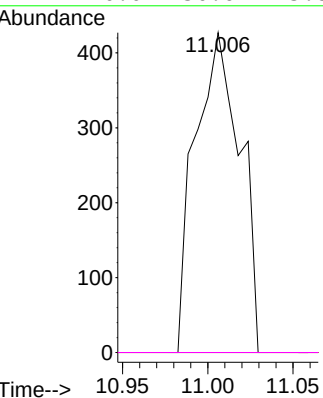
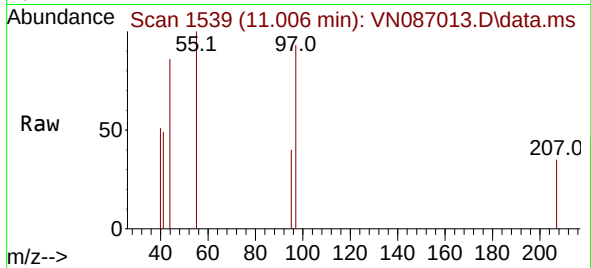




#55
1,1,2-Trichloroethane
Concen: 0.206 ug/l
RT: 11.006 min Scan# 1539
Delta R.T. -0.012 min
Lab File: VN087013.D
Acq: 13 Jun 2025 19:29

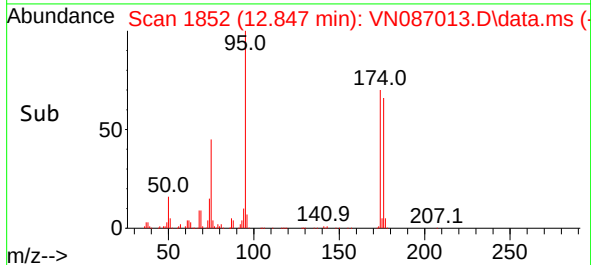
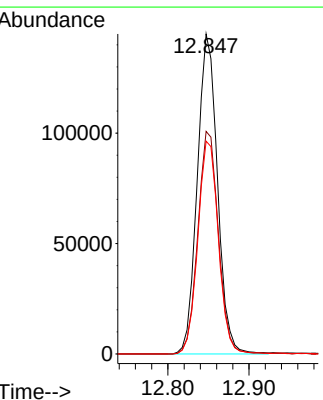
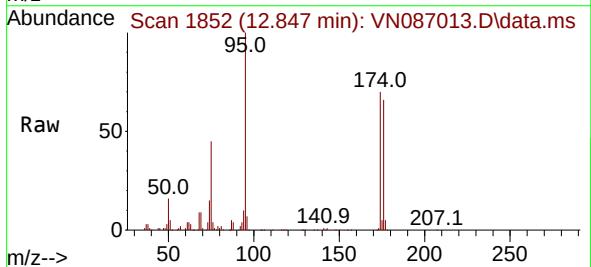
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

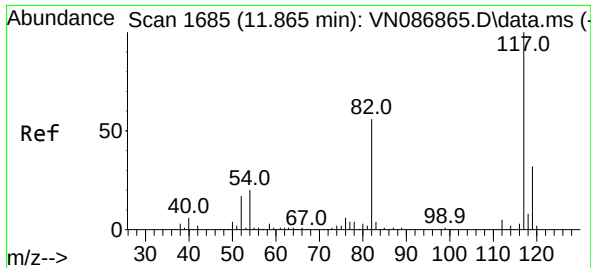
Tgt Ion:	97	Resp:	783
Ion	Ratio	Lower	Upper
97	100		
83	0.0	69.7	104.5#
85	0.0	45.1	67.7#
99	0.0	50.6	75.8#



#62
4-Bromofluorobenzene
Concen: 51.172 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087013.D
Acq: 13 Jun 2025 19:29

Tgt Ion:	95	Resp:	250017
Ion	Ratio	Lower	Upper
95	100		
174	71.2	0.0	141.8
176	67.7	0.0	132.6

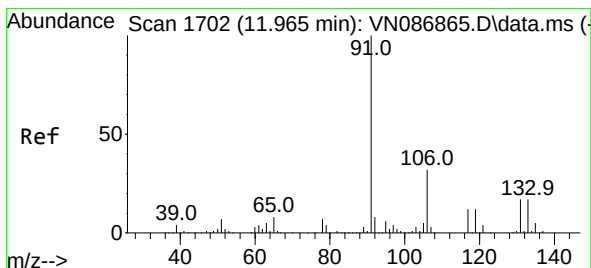
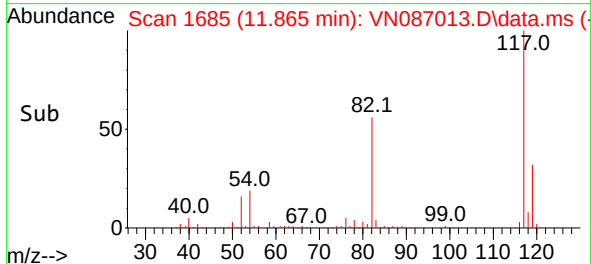
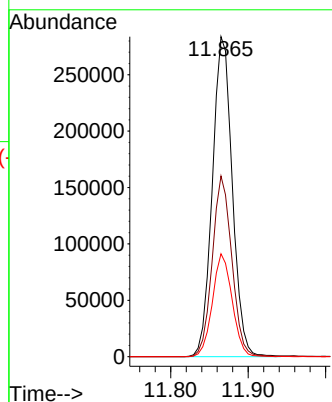
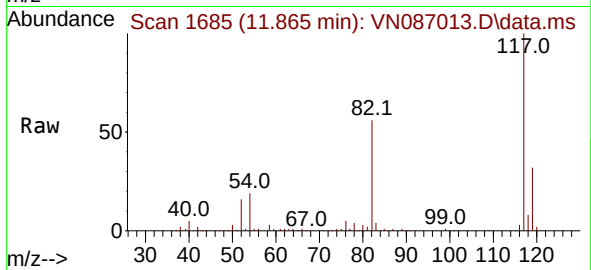




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN087013.D
Acq: 13 Jun 2025 19:29

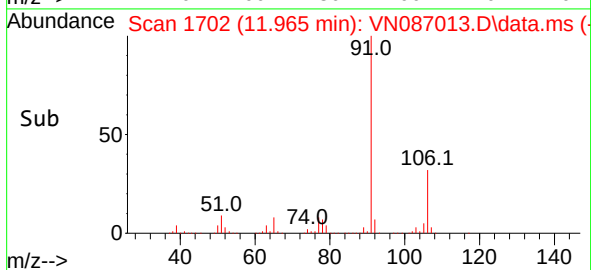
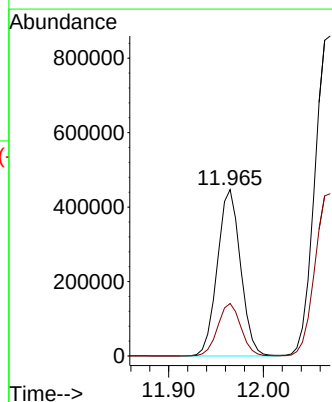
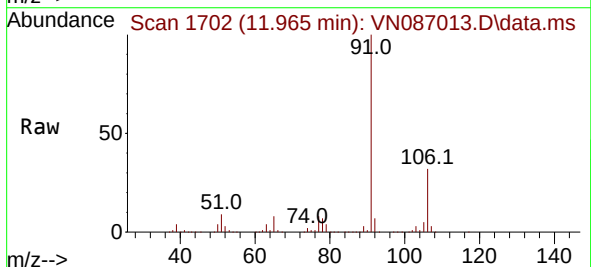
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

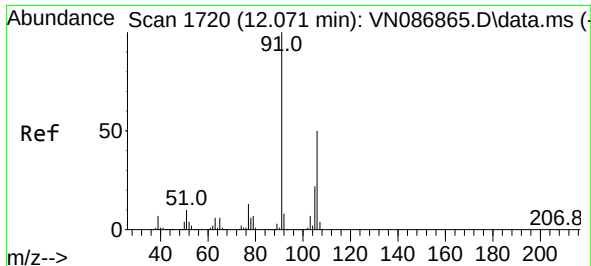
Tgt Ion:117 Resp: 507575
Ion Ratio Lower Upper
117 100
82 56.4 44.6 67.0
119 32.1 25.5 38.3



#67
Ethyl Benzene
Concen: 39.505 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN087013.D
Acq: 13 Jun 2025 19:29

Tgt Ion: 91 Resp: 761762
Ion Ratio Lower Upper
91 100
106 31.6 25.4 38.2

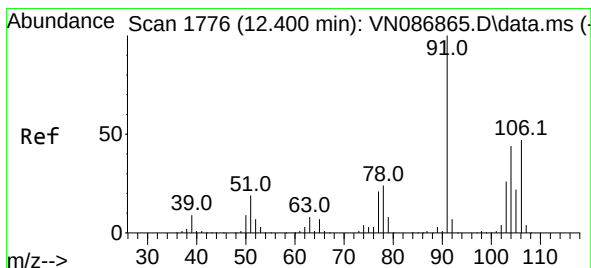
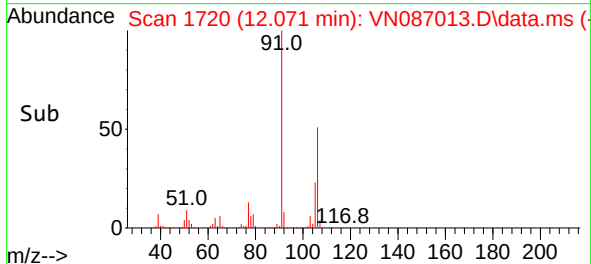
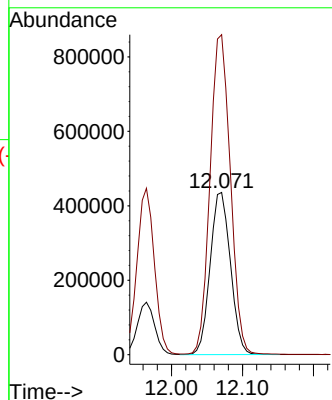
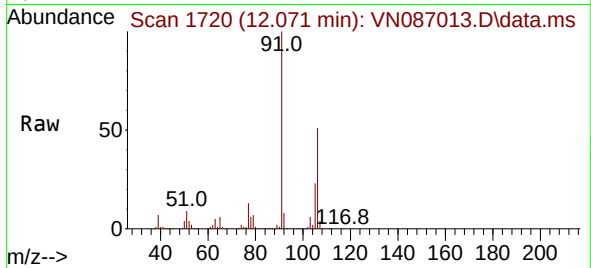




#68
m/p-Xylenes
Concen: 116.939 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN087013.D
Acq: 13 Jun 2025 19:29

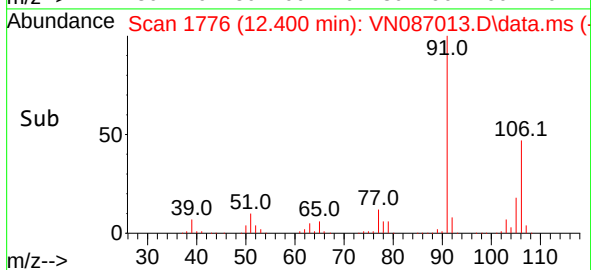
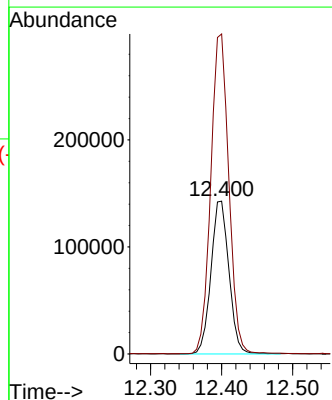
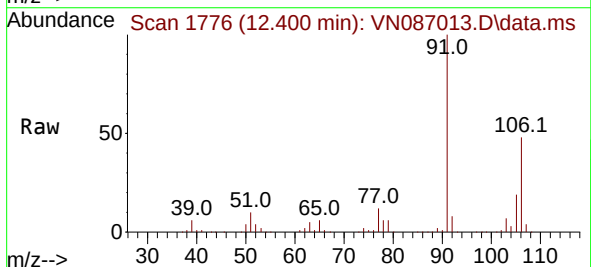
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

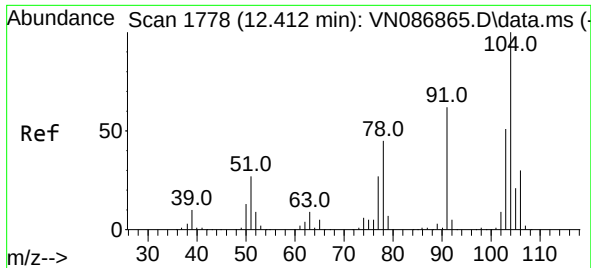
Tgt Ion:106 Resp: 863174
Ion Ratio Lower Upper
106 100
91 197.9 159.4 239.0



#69
o-Xylene
Concen: 35.477 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN087013.D
Acq: 13 Jun 2025 19:29

Tgt Ion:106 Resp: 250807
Ion Ratio Lower Upper
106 100
91 210.0 106.1 318.1

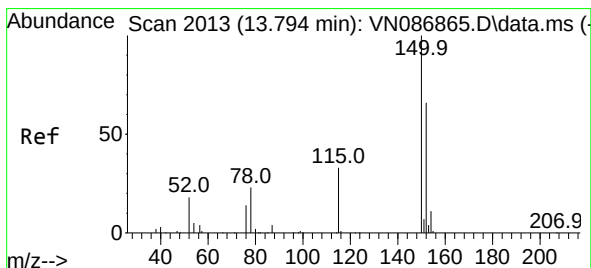
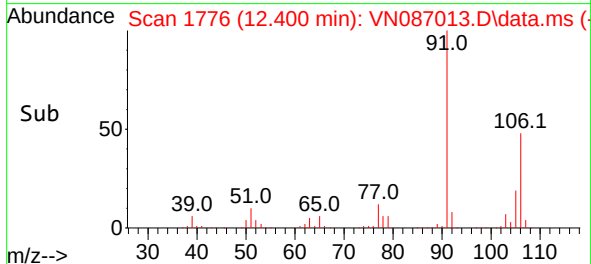
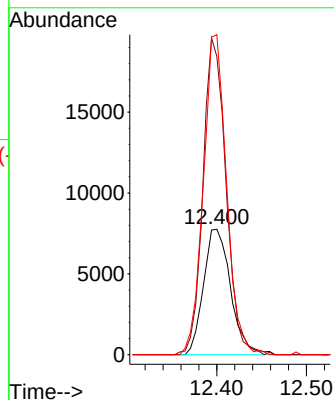
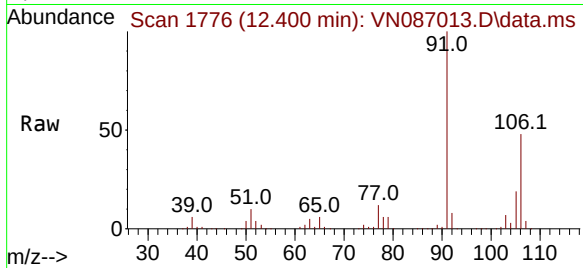




#70
Styrene
Concen: 1.351 ug/l
RT: 12.400 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN087013.D
Acq: 13 Jun 2025 19:29

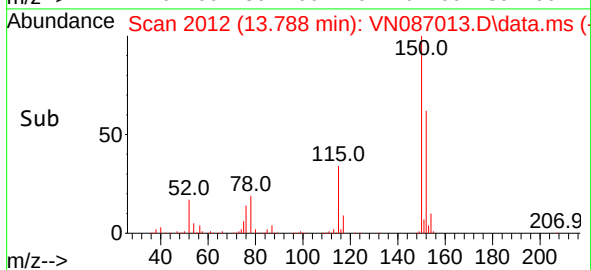
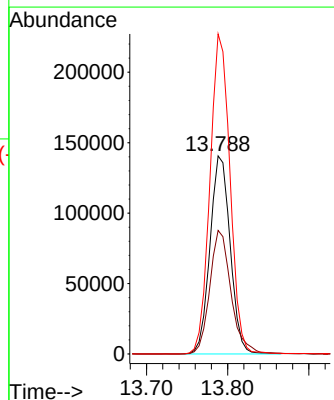
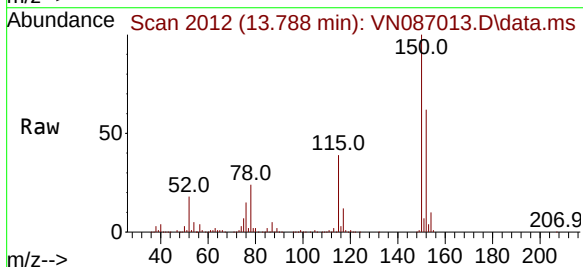
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

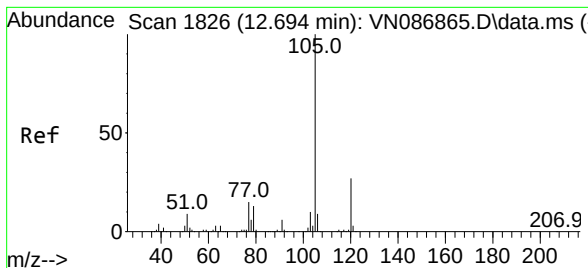
Tgt Ion:104 Resp: 16345
Ion Ratio Lower Upper
104 100
78 212.7 38.5 57.7#
103 218.1 43.1 64.7#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087013.D
Acq: 13 Jun 2025 19:29

Tgt Ion:152 Resp: 242990
Ion Ratio Lower Upper
152 100
115 65.8 30.1 90.5
150 160.4 0.0 345.0





#73

Isopropylbenzene

Concen: 2.062 ug/l

RT: 12.694 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087013.D

Acq: 13 Jun 2025 19:29

Instrument :

MSVOA_N

ClientSampleId :

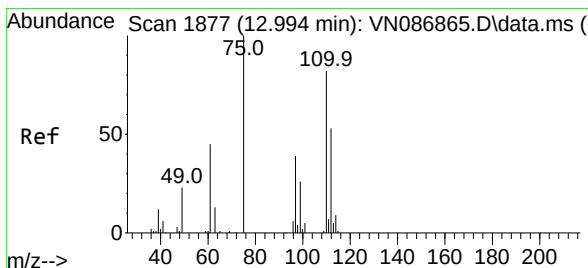
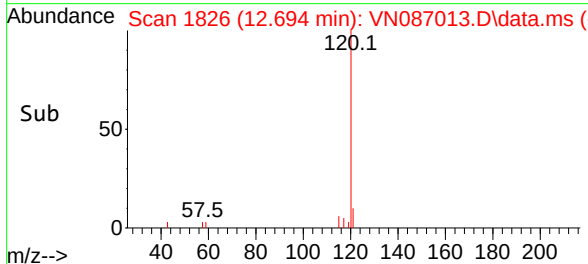
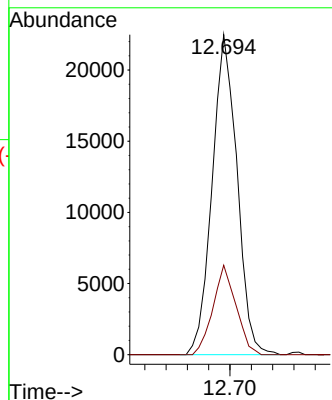
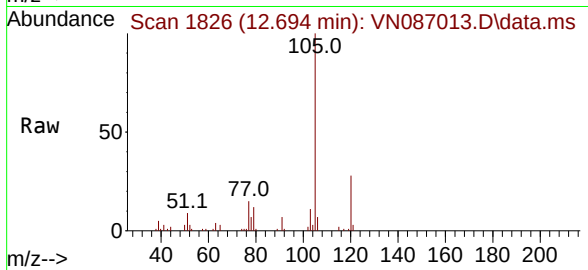
MW-3-20250605DL

Tgt Ion:105 Resp: 36503

Ion Ratio Lower Upper

105 100

120 25.9 13.5 40.4



#76

1,2,3-Trichloropropane

Concen: 19.796 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN087013.D

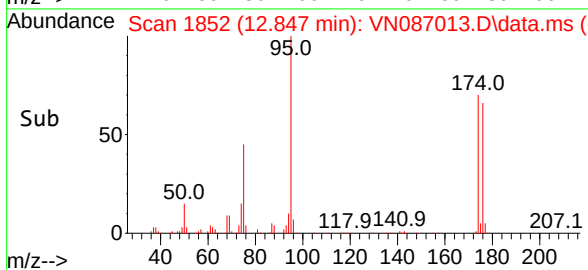
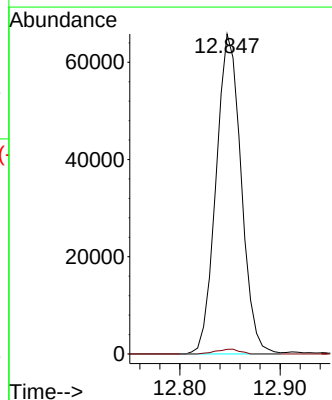
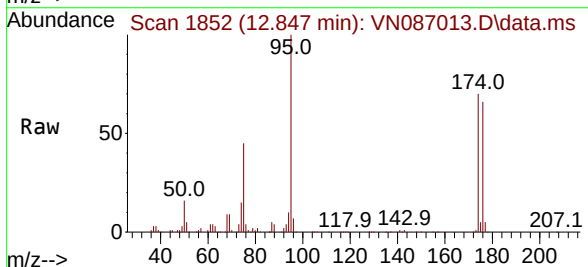
Acq: 13 Jun 2025 19:29

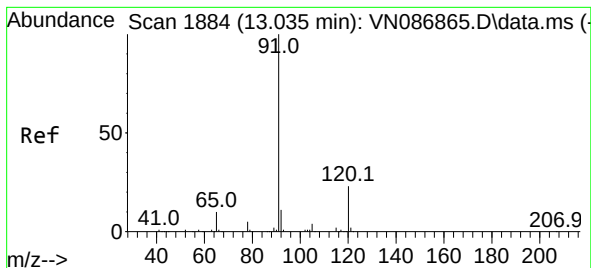
Tgt Ion: 75 Resp: 114339

Ion Ratio Lower Upper

75 100

77 1.4 79.3 237.9#





#78

n-propylbenzene

Concen: 4.480 ug/l

RT: 13.035 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087013.D

Acq: 13 Jun 2025 19:29

Instrument :

MSVOA_N

ClientSampleId :

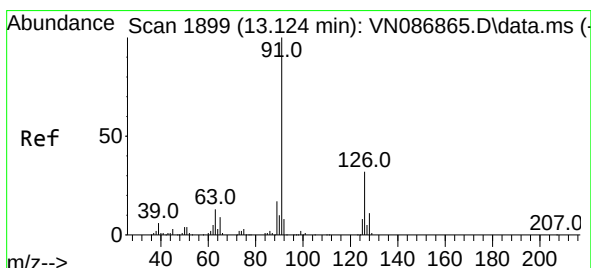
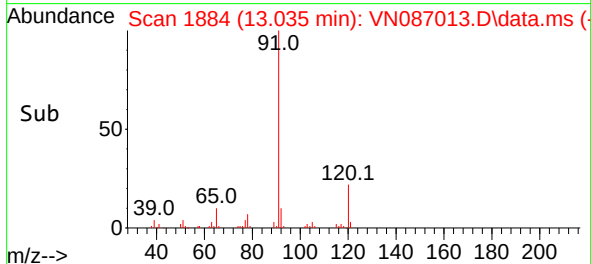
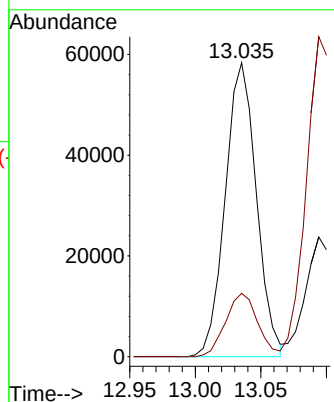
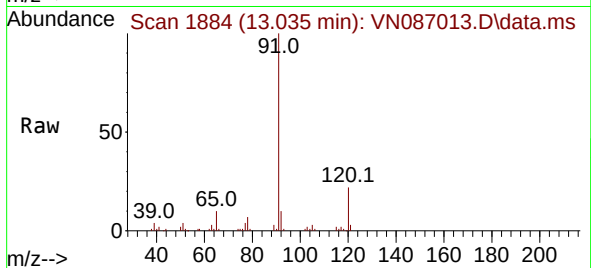
MW-3-20250605DL

Tgt Ion: 91 Resp: 96366

Ion Ratio Lower Upper

91 100

120 22.3 11.4 34.2



#79

2-Chlorotoluene

Concen: 1.235 ug/l

RT: 13.129 min Scan# 1900

Delta R.T. 0.006 min

Lab File: VN087013.D

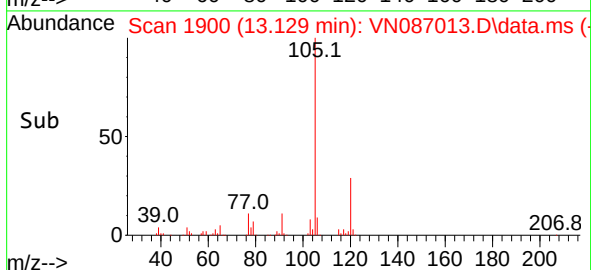
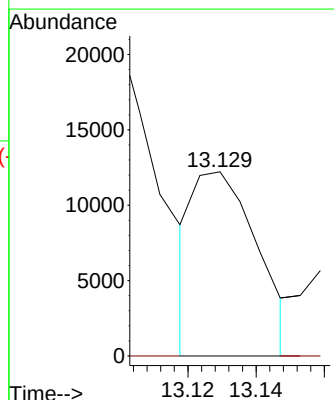
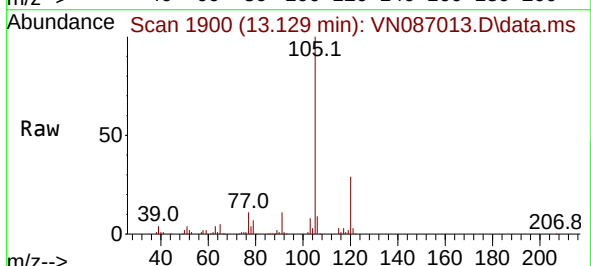
Acq: 13 Jun 2025 19:29

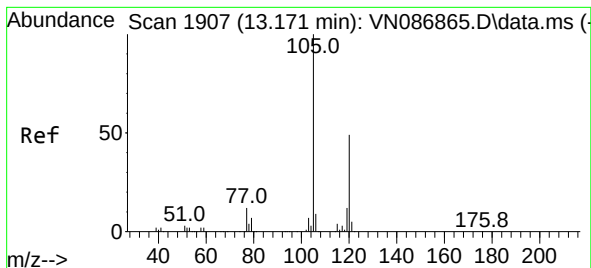
Tgt Ion: 91 Resp: 15931

Ion Ratio Lower Upper

91 100

126 0.0 16.2 48.5#





#80

1,3,5-Trimethylbenzene

Concen: 10.816 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN087013.D

Acq: 13 Jun 2025 19:29

Instrument :

MSVOA_N

ClientSampleId :

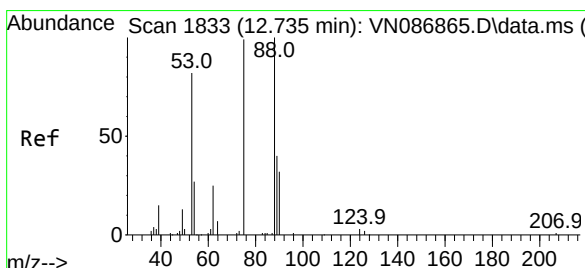
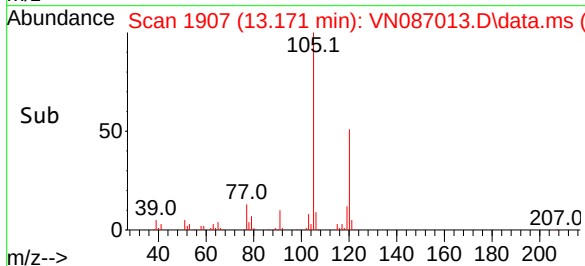
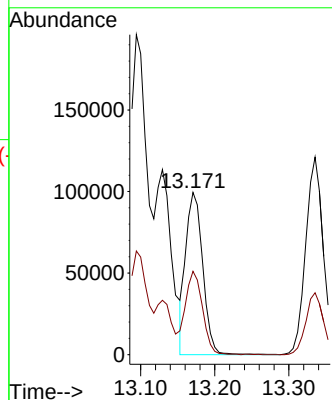
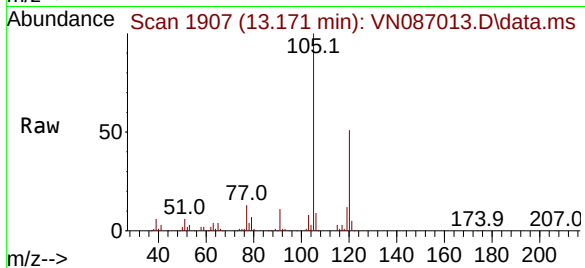
MW-3-20250605DL

Tgt Ion:105 Resp: 158077

Ion Ratio Lower Upper

105 100

120 53.4 24.9 74.6



#81

trans-1,4-Dichloro-2-butene

Concen: 45.569 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN087013.D

Acq: 13 Jun 2025 19:29

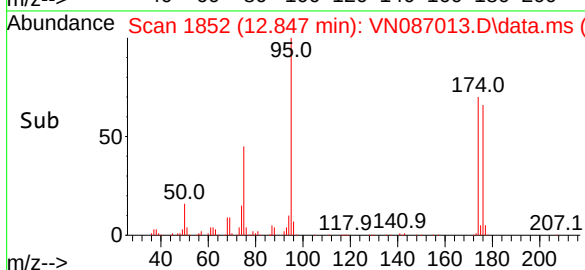
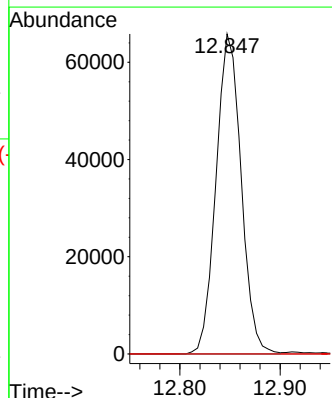
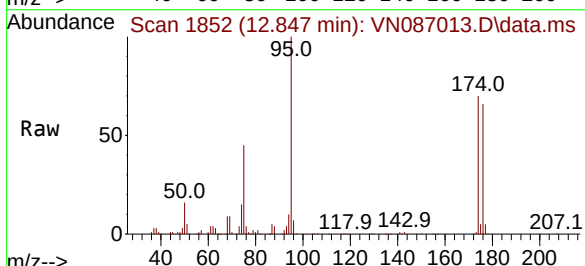
Tgt Ion: 75 Resp: 114339

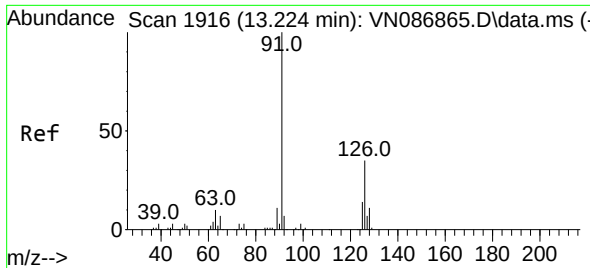
Ion Ratio Lower Upper

75 100

53 0.0 66.6 99.8#

89 0.0 36.7 55.1#

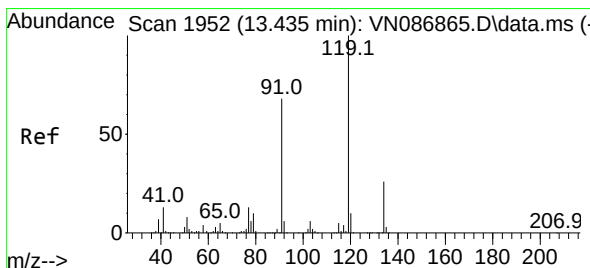
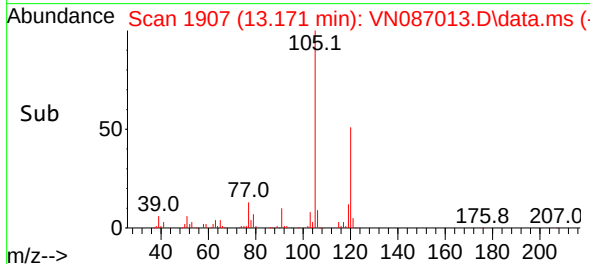
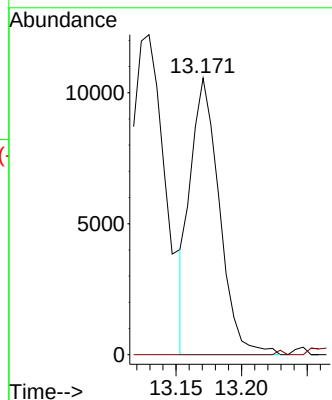
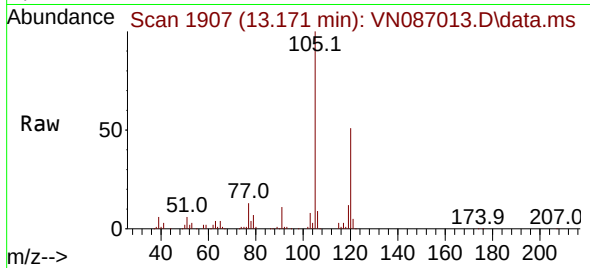




#82
4-Chlorotoluene
Concen: 1.244 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.053 min
Lab File: VN087013.D
Acq: 13 Jun 2025 19:29

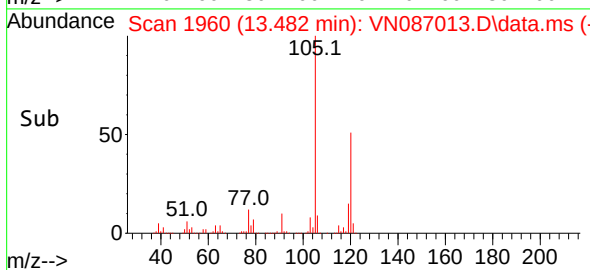
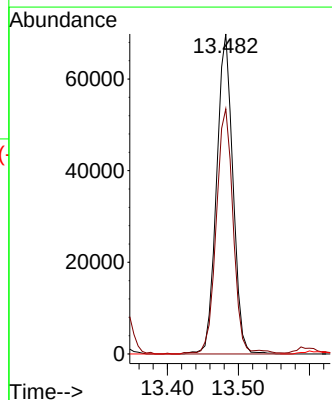
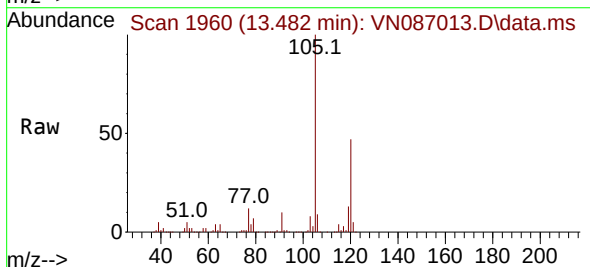
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

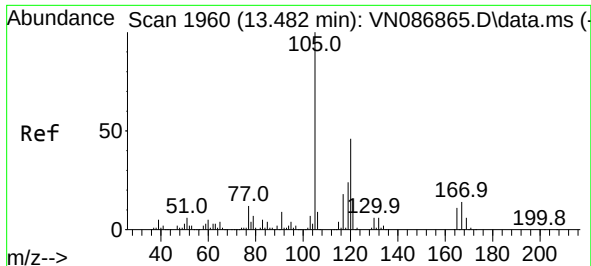
Tgt Ion: 91 Resp: 16238
Ion Ratio Lower Upper
91 100
126 0.0 16.7 50.1#



#83
tert-Butylbenzene
Concen: 8.305 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.047 min
Lab File: VN087013.D
Acq: 13 Jun 2025 19:29

Tgt Ion: 119 Resp: 111110
Ion Ratio Lower Upper
119 100
91 78.7 32.1 96.5
134 0.0 13.4 40.1#

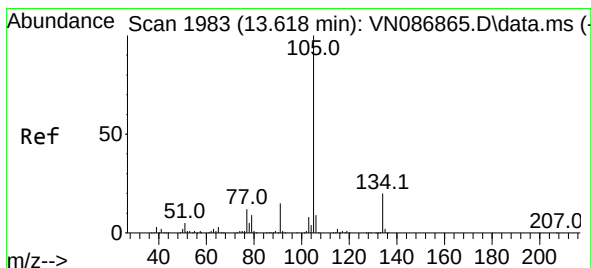
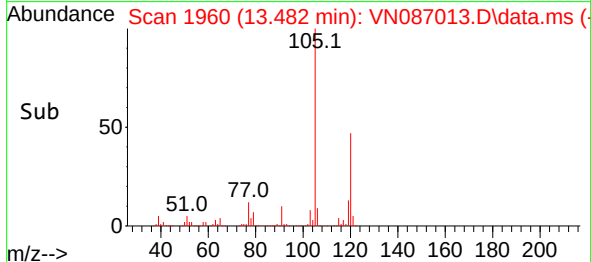
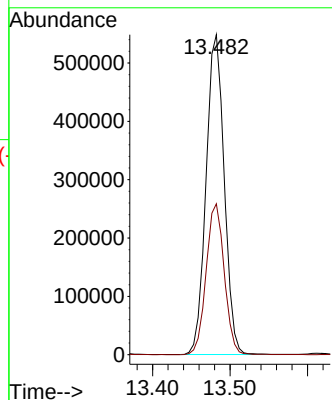
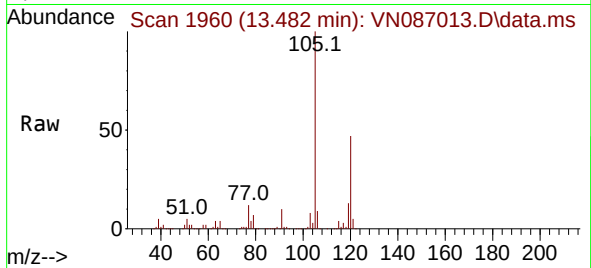




#84
1,2,4-Trimethylbenzene
Concen: 60.821 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN087013.D
Acq: 13 Jun 2025 19:29

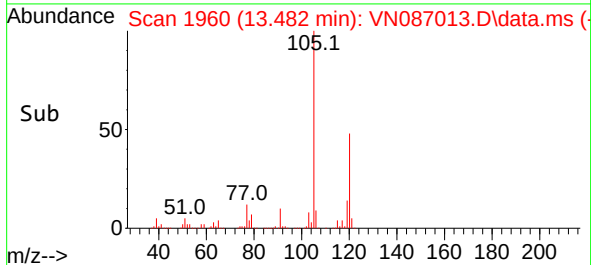
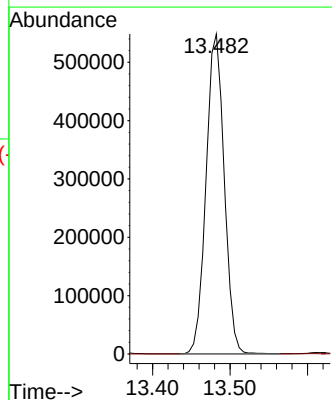
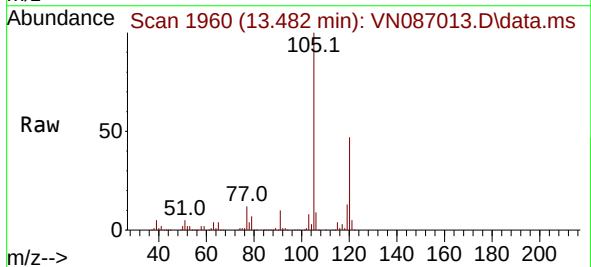
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

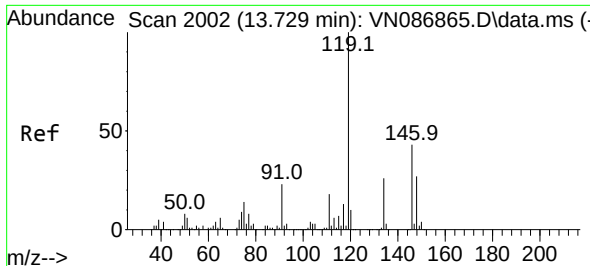
Tgt Ion:105 Resp: 891372
Ion Ratio Lower Upper
105 100
120 47.1 23.2 69.6



#85
sec-Butylbenzene
Concen: 45.880 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.135 min
Lab File: VN087013.D
Acq: 13 Jun 2025 19:29

Tgt Ion:105 Resp: 891372
Ion Ratio Lower Upper
105 100
134 0.0 10.0 30.0#

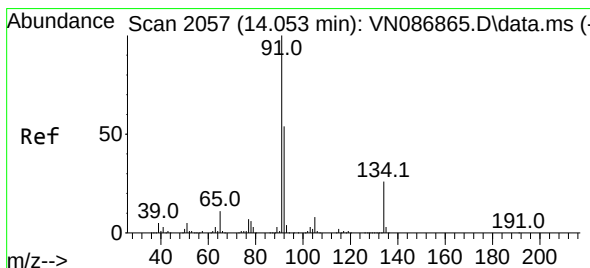
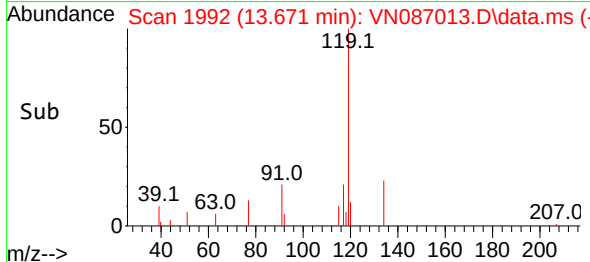
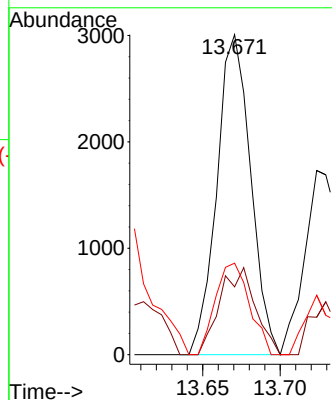
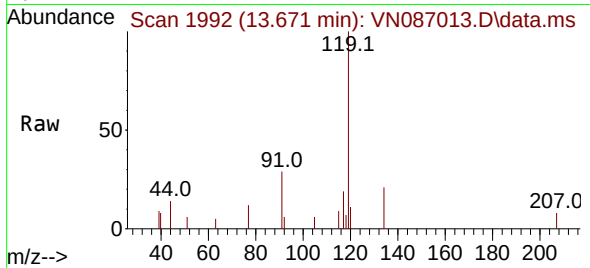




#86
p-Isopropyltoluene
Concen: 0.284 ug/l
RT: 13.671 min Scan# 1992
Delta R.T. -0.059 min
Lab File: VN087013.D
Acq: 13 Jun 2025 19:29

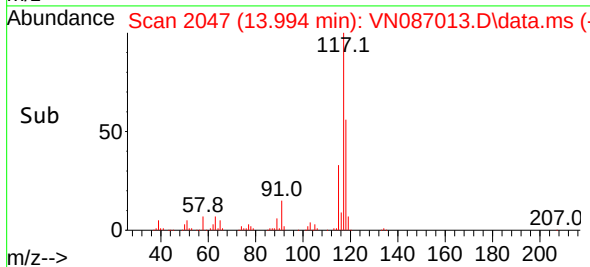
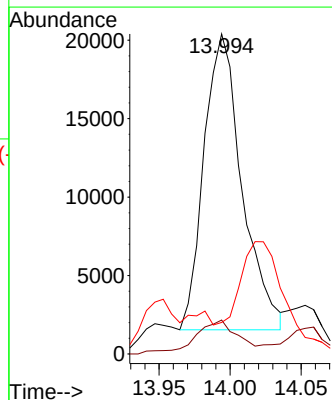
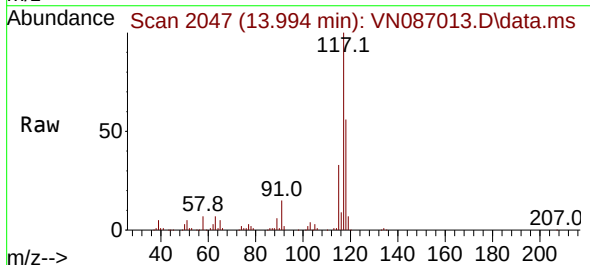
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

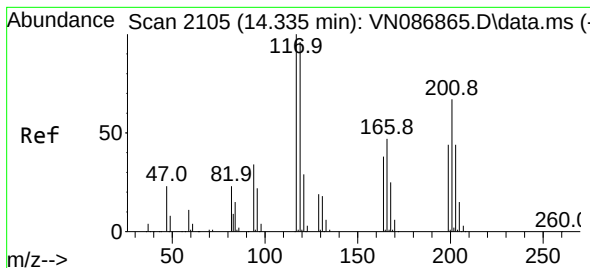
Tgt Ion:119 Resp: 4564
Ion Ratio Lower Upper
119 100
134 28.6 13.5 40.4
91 0.0 11.5 34.4#



#89
n-Butylbenzene
Concen: 2.255 ug/l
RT: 13.994 min Scan# 2047
Delta R.T. -0.059 min
Lab File: VN087013.D
Acq: 13 Jun 2025 19:29

Tgt Ion: 91 Resp: 35086
Ion Ratio Lower Upper
91 100
92 13.4 27.5 82.4#
134 0.0 13.0 39.0#





#90

Hexachloroethane

Concen: 1.619 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.006 min

Lab File: VN087013.D

Acq: 13 Jun 2025 19:29

Instrument :

MSVOA_N

ClientSampleId :

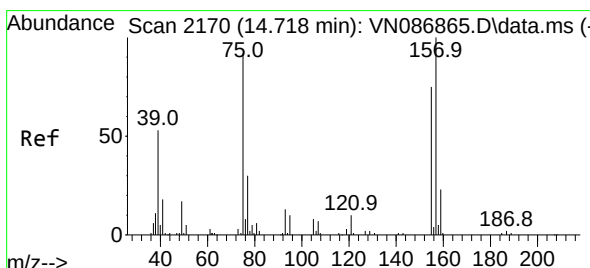
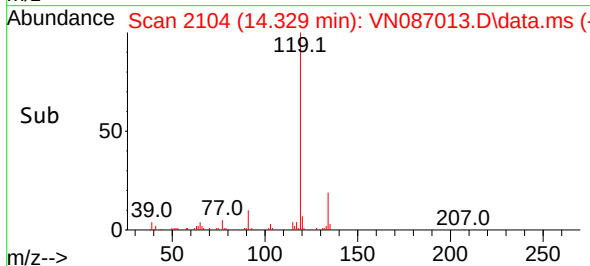
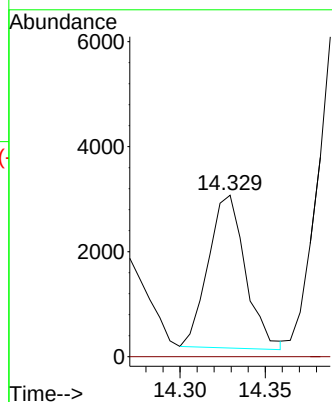
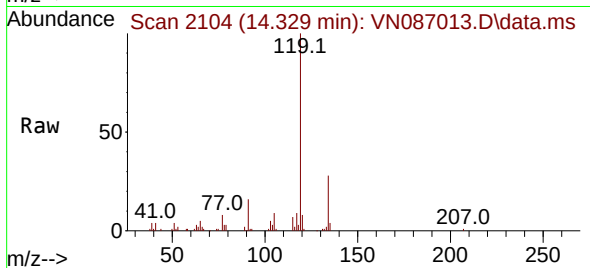
MW-3-20250605DL

Tgt Ion:117 Resp: 4406

Ion Ratio Lower Upper

117 100

201 0.0 33.2 99.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.219 ug/l

RT: 14.688 min Scan# 2165

Delta R.T. -0.029 min

Lab File: VN087013.D

Acq: 13 Jun 2025 19:29

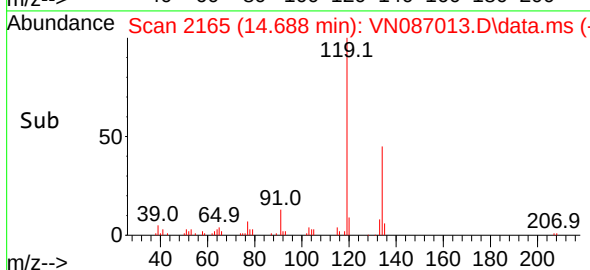
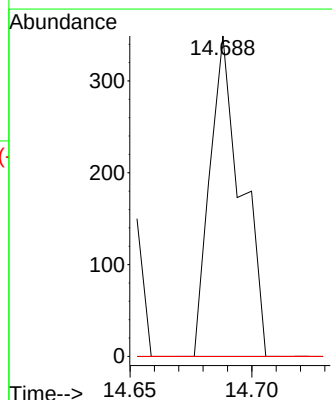
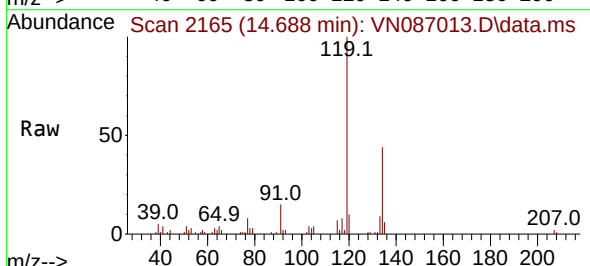
Tgt Ion: 75 Resp: 314

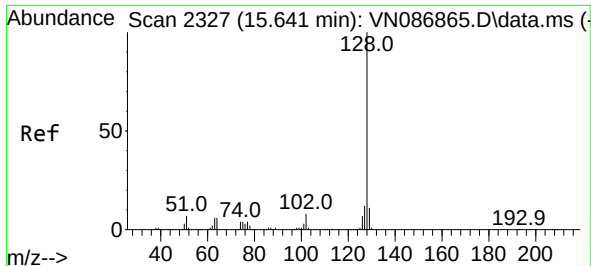
Ion Ratio Lower Upper

75 100

155 0.0 41.1 123.4#

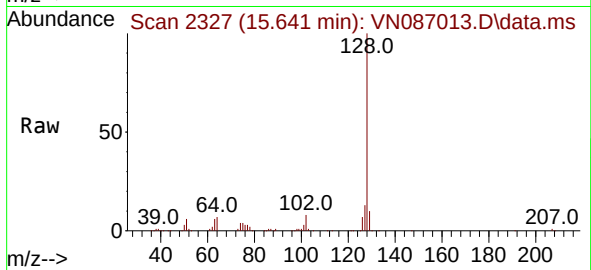
157 0.0 52.7 158.1#





#95
Naphthalene
Concen: 17.453 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN087013.D
Acq: 13 Jun 2025 19:29

Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL



Tgt Ion:128 Resp: 318323
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.2
129 10.8 8.8 13.2

