

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010423\
 Data File : VN076078.D
 Acq On : 04 Jan 2023 13:52
 Operator : JC\MD
 Sample : N6232-04DL 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-13DL

Quant Time: Jan 05 01:22:59 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 14 13:03:41 2022
 Response via : Initial Calibration

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

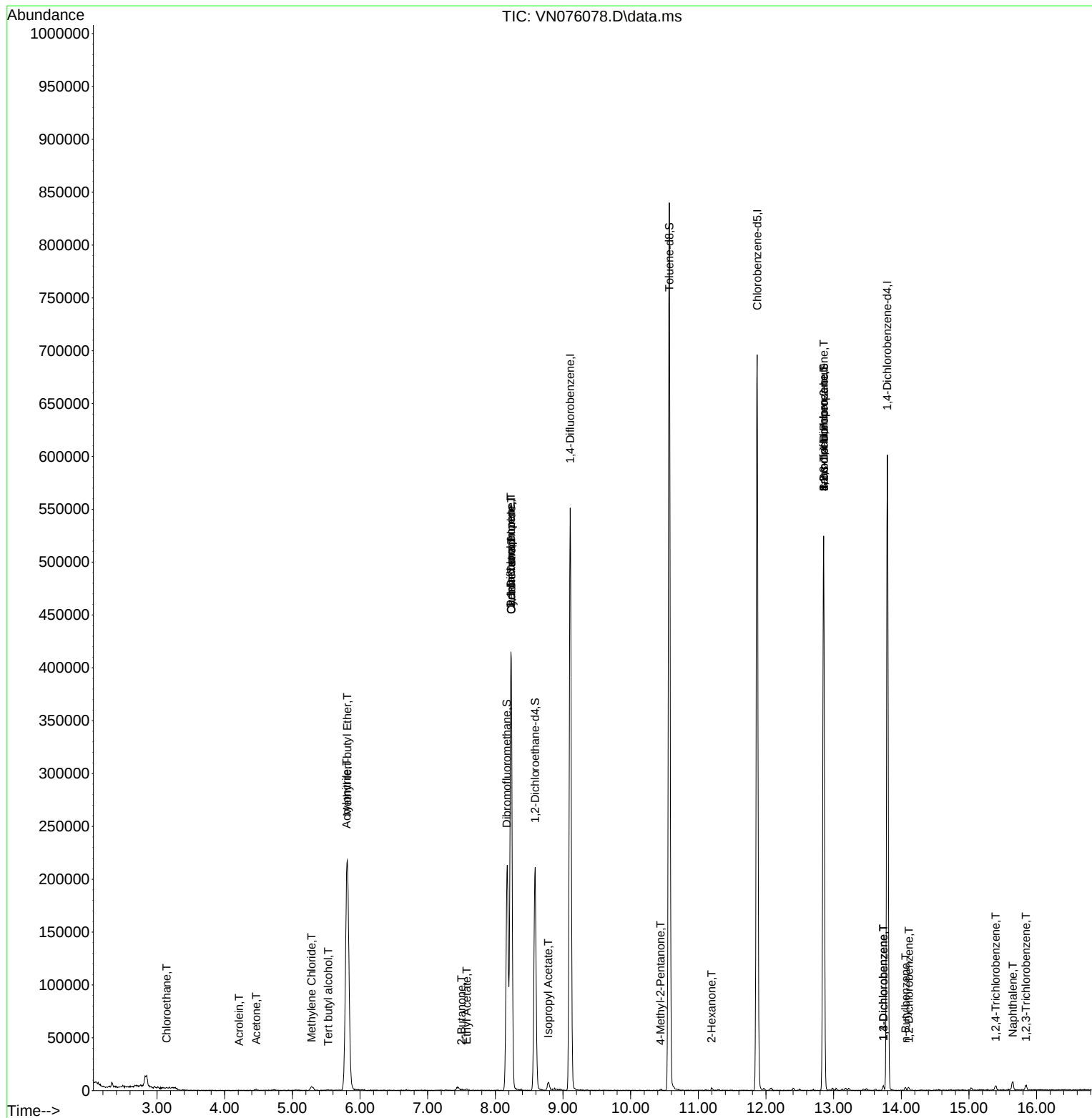
Internal Standards						
1) Pentafluorobenzene	8.230	168	323895	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	502923	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	433490	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	176629	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	168338	47.773	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.540%		
35) Dibromofluoromethane	8.171	113	151348	48.594	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.180%		
50) Toluene-d8	10.571	98	587956	50.491	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.980%		
62) 4-Bromofluorobenzene	12.853	95	176468	45.754	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	91.500%		
Target Compounds						Qvalue
6) Chloroethane	3.142	64	568	0.225	ug/l #	44
11) Tert butyl alcohol	5.530	59	944	1.893	ug/l #	72
13) Acrolein	4.212	56	223	0.365	ug/l #	47
15) Acrylonitrile	5.800	53	4279	3.145	ug/l #	23
16) Acetone	4.465	43	1888	1.554	ug/l #	84
19) Methyl tert-butyl Ether	5.812	73	396096	41.900	ug/l	96
20) Methylene Chloride	5.283	84	2965	0.276	ug/l #	86
25) 2-Butanone	7.500	43	1641	0.965	ug/l	91
31) Cyclohexane	8.236	56	6551	1.298	ug/l #	23
36) 1,1-Dichloropropene	8.230	75	22625	5.468	ug/l #	50
37) Ethyl Acetate	7.577	43	2189	0.659	ug/l #	68
38) Carbon Tetrachloride	8.236	117	31775	6.862	ug/l #	17
43) Isopropyl Acetate	8.783	43	2511	0.458	ug/l #	45
51) 4-Methyl-2-Pentanone	10.441	43	800	0.241	ug/l	93
59) 2-Hexanone	11.194	43	1443	0.597	ug/l	80
71) Bromoform	12.853	173	1413	0.589	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	90529	25.427	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	90529	91.523	ug/l #	12
87) 1,3-Dichlorobenzene	13.735	146	1582	0.265	ug/l	91
88) 1,4-Dichlorobenzene	13.735	146	1582	0.260	ug/l	90
89) n-Butylbenzene	14.065	91	2347	0.268	ug/l	96
91) 1,2-Dichlorobenzene	14.112	146	1773	0.302	ug/l	92
93) 1,2,4-Trichlorobenzene	15.394	180	2061	0.708	ug/l	89
95) Naphthalene	15.647	128	9060	3.079	ug/l	97
96) 1,2,3-Trichlorobenzene	15.841	180	1933	0.711	ug/l	77

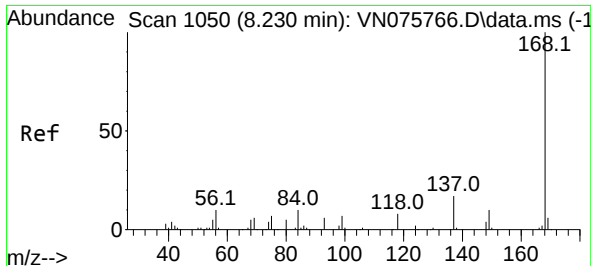
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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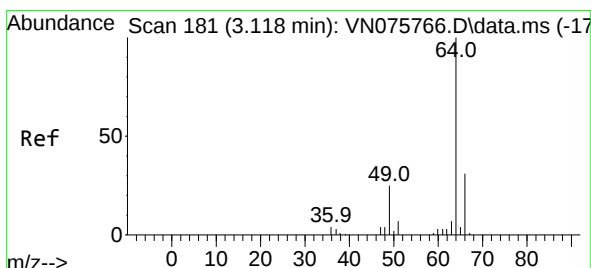
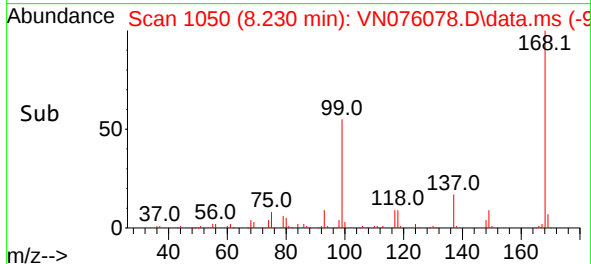
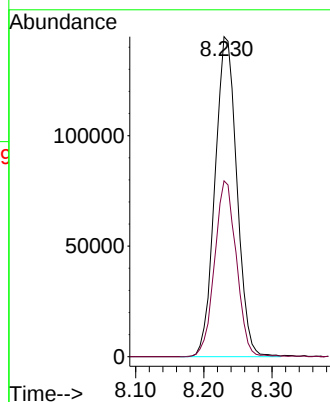
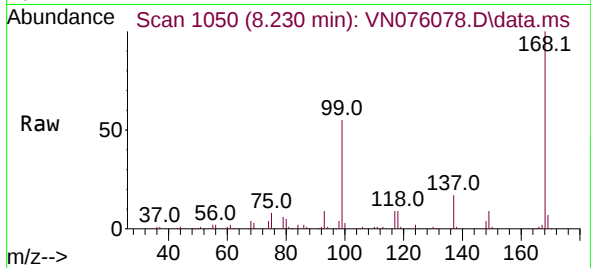




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

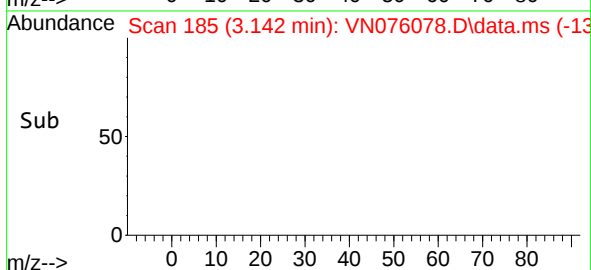
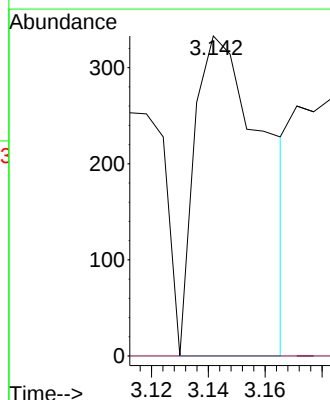
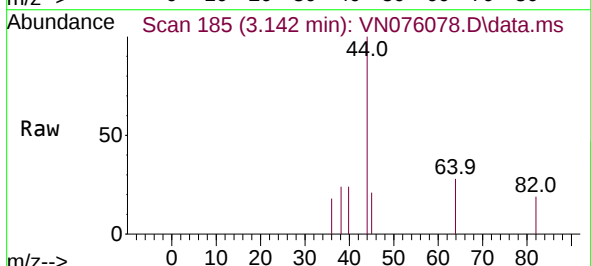
Instrument :
MSVOA_N
ClientSampleId :
MW-13DL

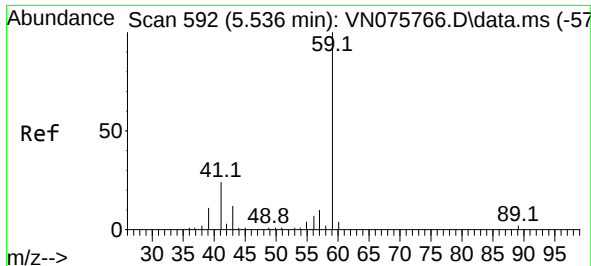
Tgt Ion:168 Resp: 323895
Ion Ratio Lower Upper
168 100
99 54.9 44.2 66.4



#6
Chloroethane
Concen: 0.225 ug/l
RT: 3.142 min Scan# 185
Delta R.T. 0.024 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

Tgt Ion: 64 Resp: 568
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#

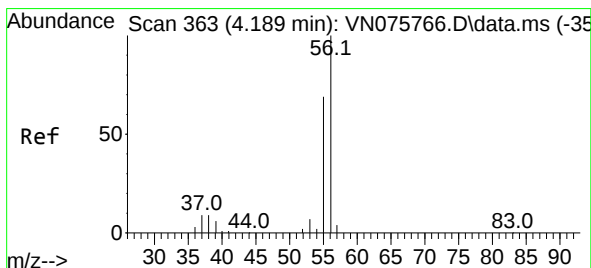
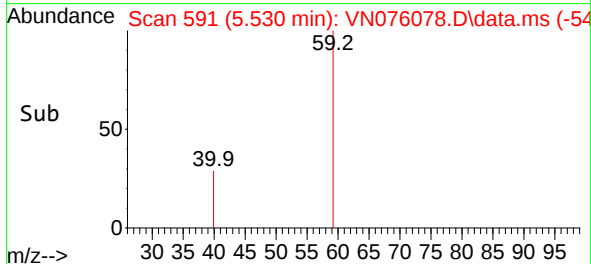
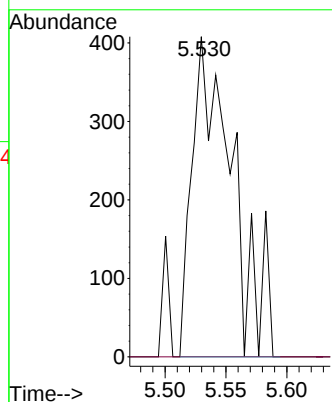
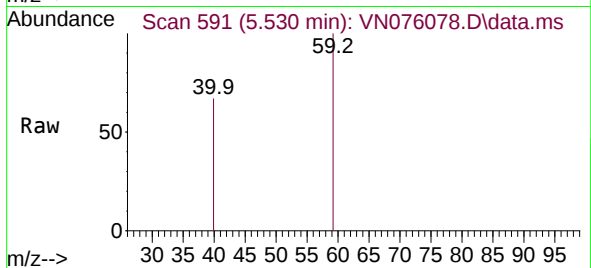




#11
Tert butyl alcohol
Concen: 1.893 ug/l
RT: 5.530 min Scan# 591
Delta R.T. -0.006 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

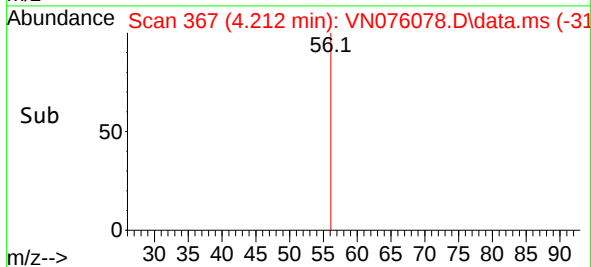
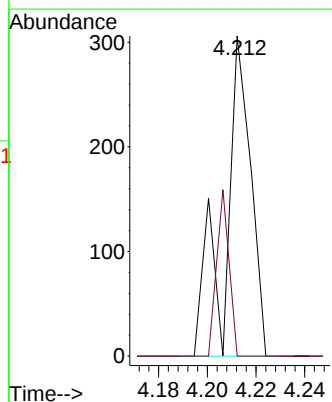
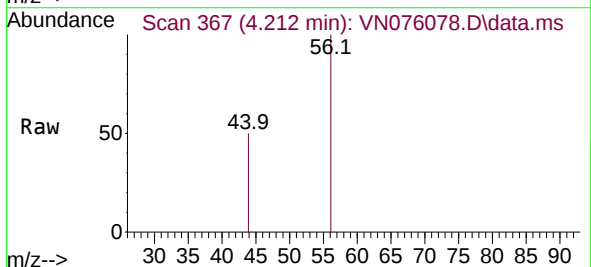
Instrument :
MSVOA_N
ClientSampleId :
MW-13DL

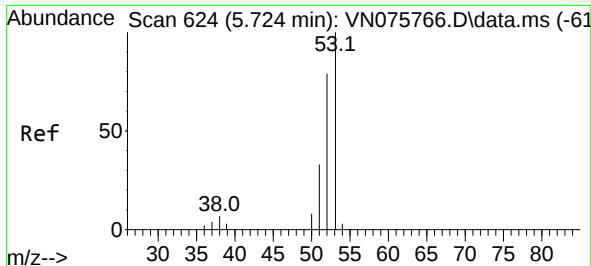
Tgt Ion: 59 Resp: 944
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.365 ug/l
RT: 4.212 min Scan# 367
Delta R.T. 0.024 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

Tgt Ion: 56 Resp: 223
Ion Ratio Lower Upper
56 100
55 25.1 54.8 82.2#

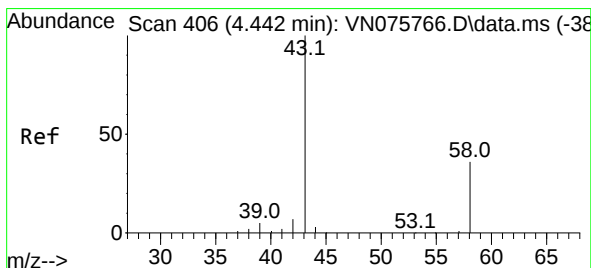
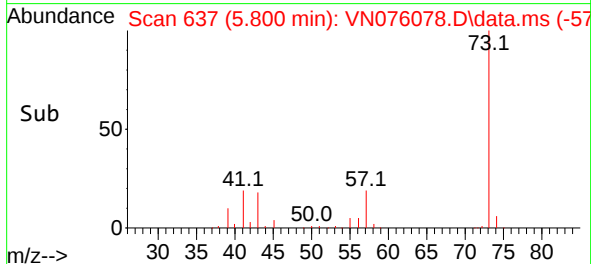
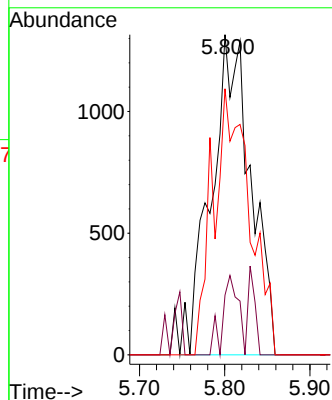
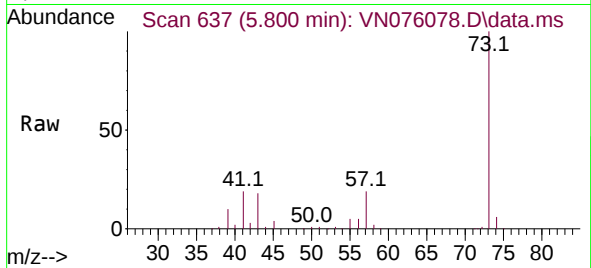




#15
Acrylonitrile
Concen: 3.145 ug/l
RT: 5.800 min Scan# 61
Delta R.T. 0.077 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

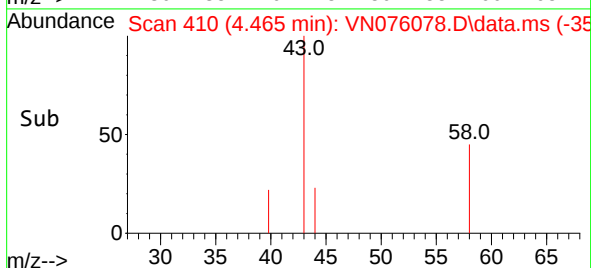
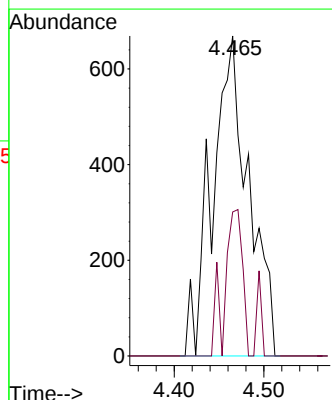
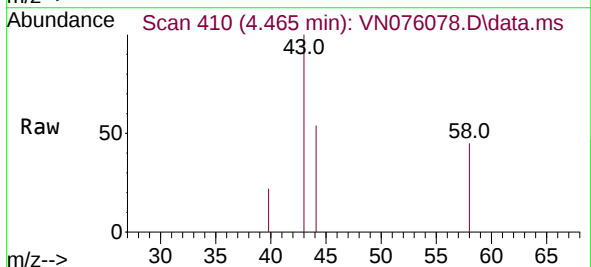
Instrument :
MSVOA_N
ClientSampleId :
MW-13DL

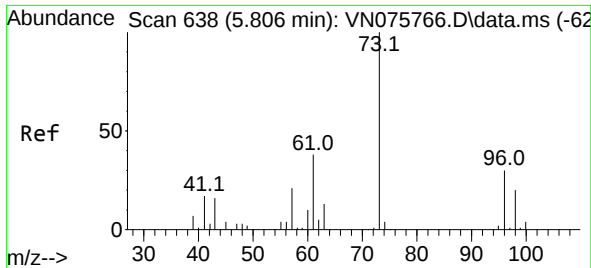
Tgt Ion: 53 Resp: 4279
Ion Ratio Lower Upper
53 100
52 9.8 65.4 98.0#
51 76.4 28.9 43.3#



#16
Acetone
Concen: 1.554 ug/l
RT: 4.465 min Scan# 410
Delta R.T. 0.024 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

Tgt Ion: 43 Resp: 1888
Ion Ratio Lower Upper
43 100
58 45.0 28.6 43.0#

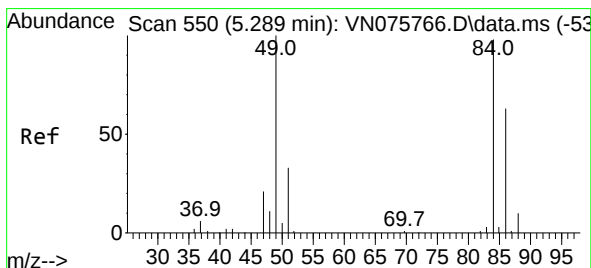
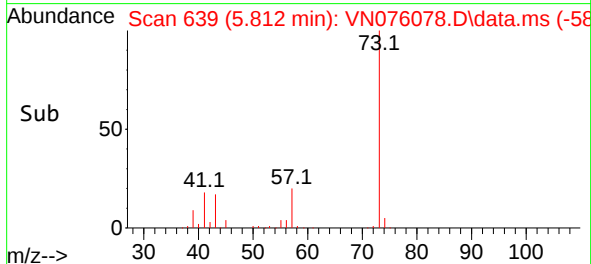
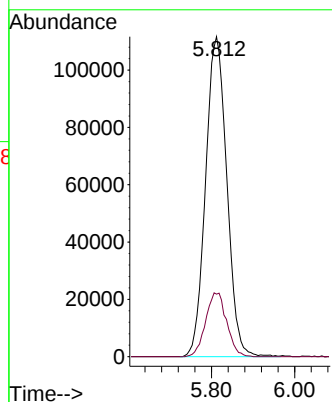
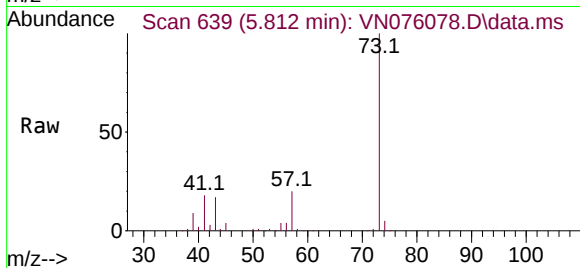




#19
Methyl tert-butyl Ether
Concen: 41.900 ug/l
RT: 5.812 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

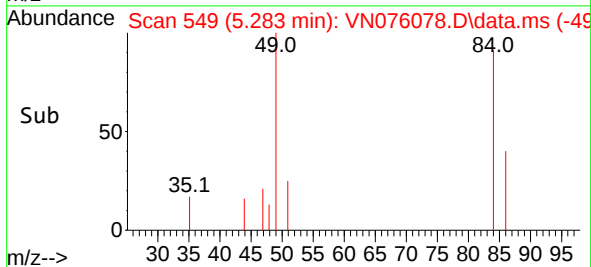
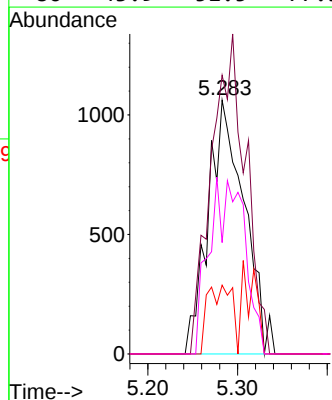
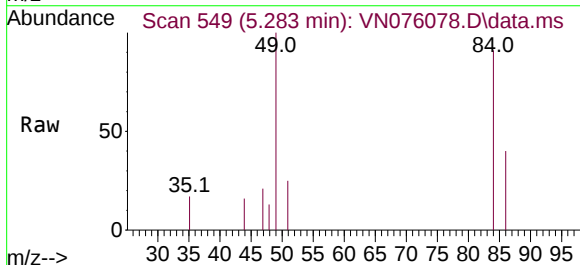
Instrument :
MSVOA_N
ClientSampleId :
MW-13DL

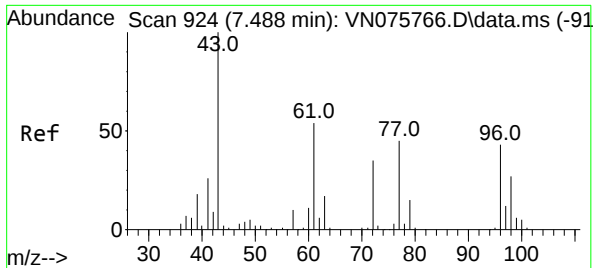
Tgt Ion: 73 Resp: 396096
Ion Ratio Lower Upper
73 100
57 19.6 17.1 25.7



#20
Methylene Chloride
Concen: 0.276 ug/l
RT: 5.283 min Scan# 549
Delta R.T. -0.006 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

Tgt Ion: 84 Resp: 2965
Ion Ratio Lower Upper
84 100
49 109.8 81.8 122.6
51 27.1 26.7 40.1
86 43.9 51.5 77.3#

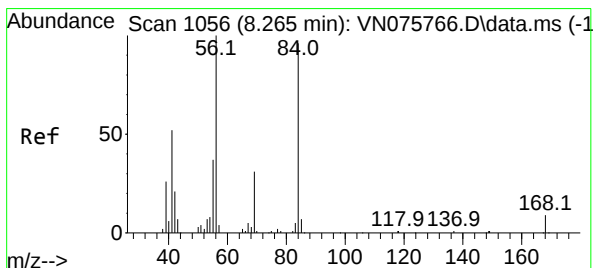
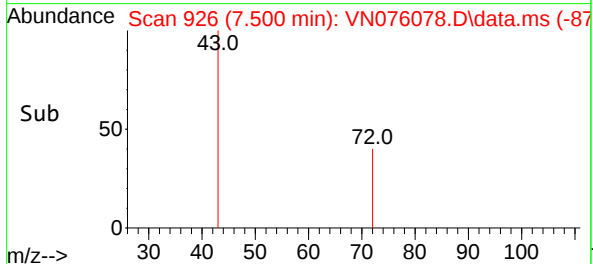
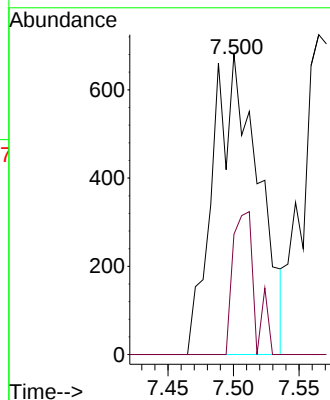
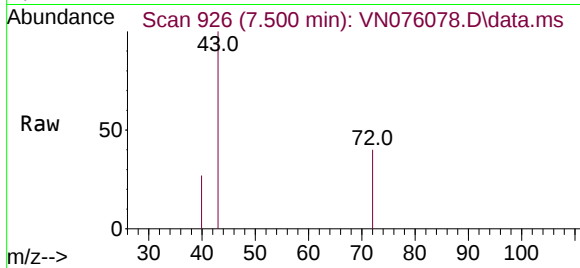




#25
2-Butanone
Concen: 0.965 ug/l
RT: 7.500 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

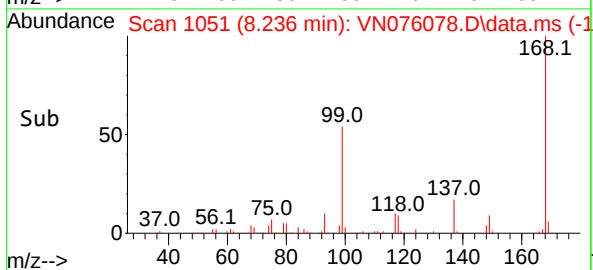
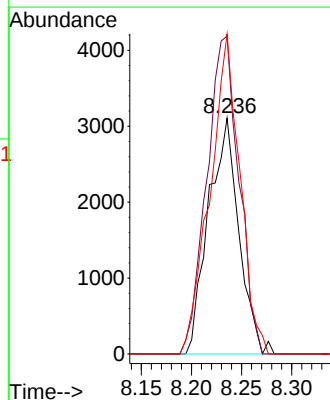
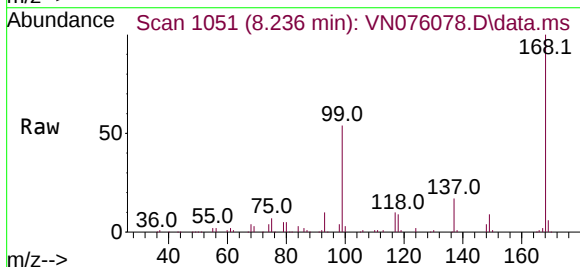
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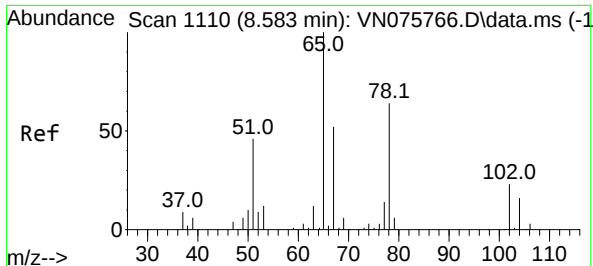
Tgt Ion: 43 Resp: 1641
Ion Ratio Lower Upper
43 100
72 40.0 28.0 42.0



#31
Cyclohexane
Concen: 1.298 ug/l
RT: 8.236 min Scan# 1051
Delta R.T. -0.029 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

Tgt Ion: 56 Resp: 6551
Ion Ratio Lower Upper
56 100
69 134.7 24.7 37.1#
84 135.6 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 47.773 ug/l

RT: 8.588 min Scan# 1110

Delta R.T. 0.006 min

Lab File: VN076078.D

Acq: 04 Jan 2023 13:52

Instrument :

MSVOA_N

ClientSampleId :

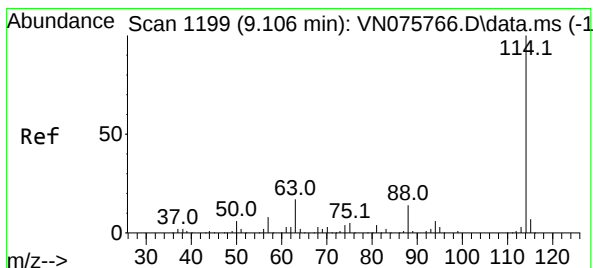
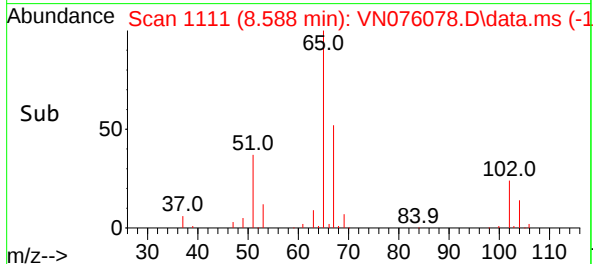
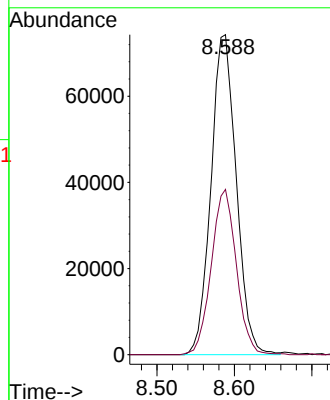
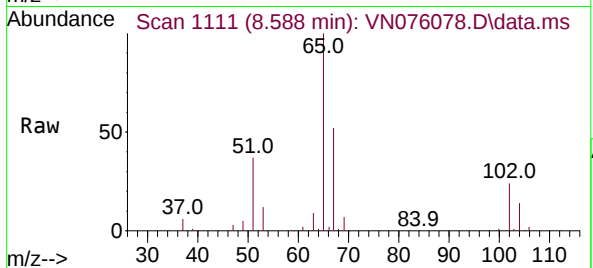
MW-13DL

Tgt Ion: 65 Resp: 168338

Ion Ratio Lower Upper

65 100

67 51.2 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN076078.D

Acq: 04 Jan 2023 13:52

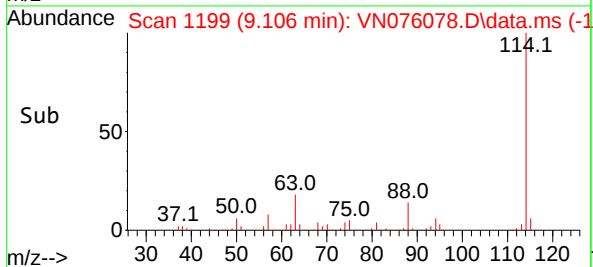
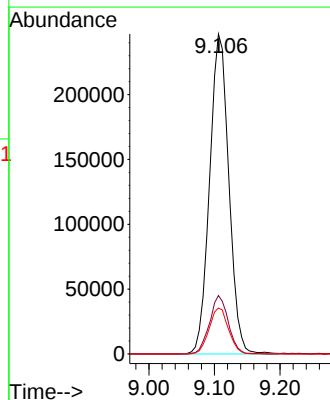
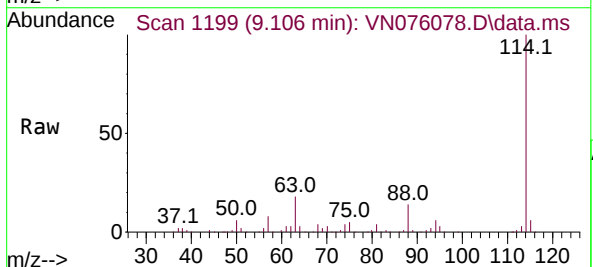
Tgt Ion: 114 Resp: 502923

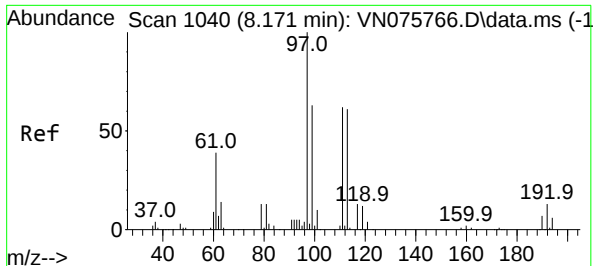
Ion Ratio Lower Upper

114 100

63 18.2 0.0 34.4

88 14.4 0.0 28.8

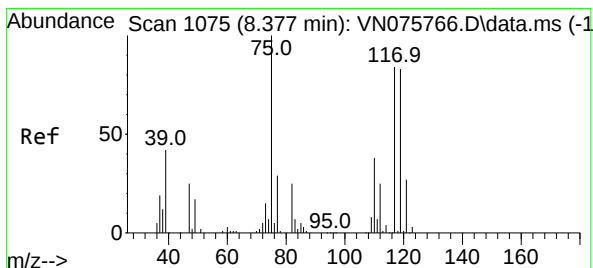
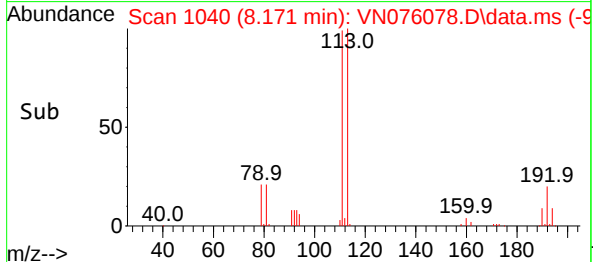
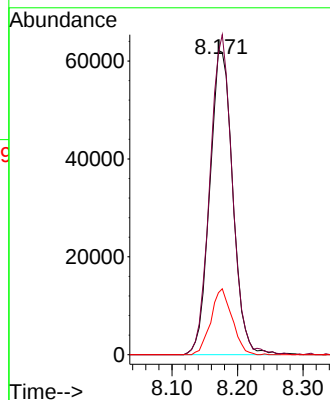
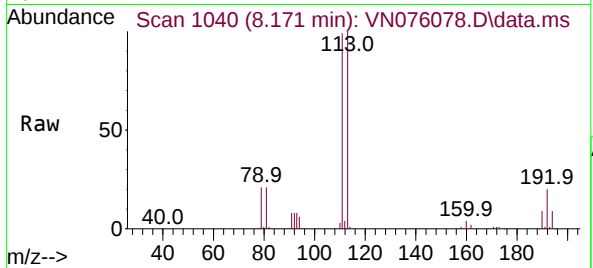




#35
Dibromofluoromethane
Concen: 48.594 ug/l
RT: 8.171 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

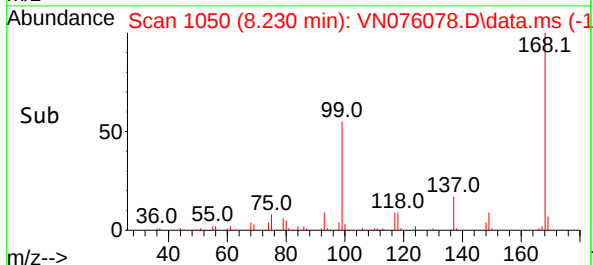
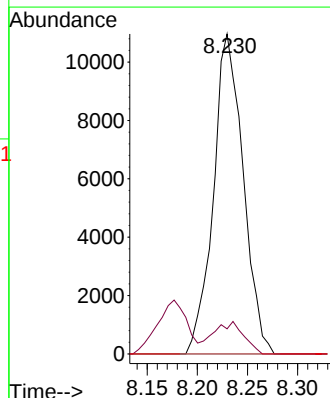
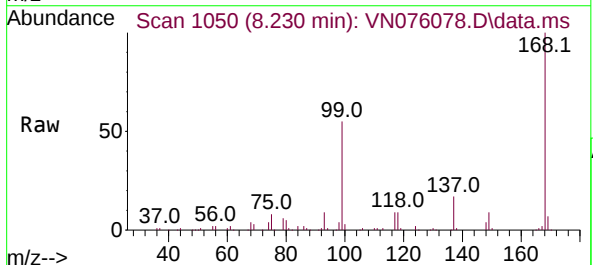
Instrument :
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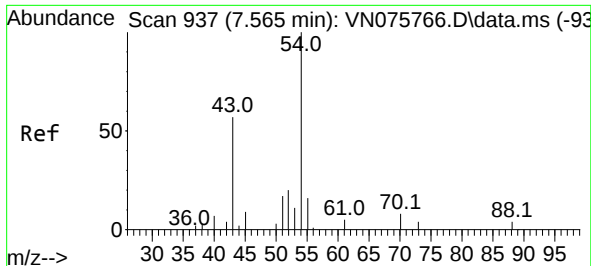
Tgt Ion:113 Resp: 151348
Ion Ratio Lower Upper
113 100
111 102.8 83.4 125.2
192 20.0 16.1 24.1



#36
1,1-Dichloropropene
Concen: 5.468 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.147 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

Tgt Ion: 75 Resp: 22625
Ion Ratio Lower Upper
75 100
110 10.6 18.8 56.4#
77 0.0 24.1 36.1#





#37

Ethyl Acetate

Concen: 0.659 ug/l

RT: 7.577 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN076078.D

Acq: 04 Jan 2023 13:52

Instrument :

MSVOA_N

ClientSampleId :

MW-13DL

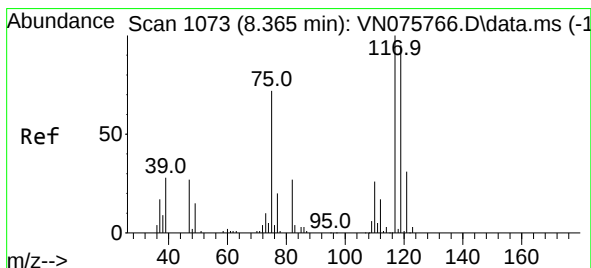
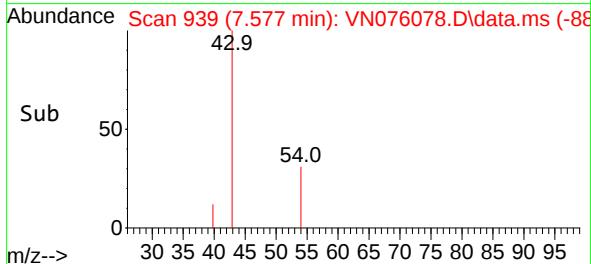
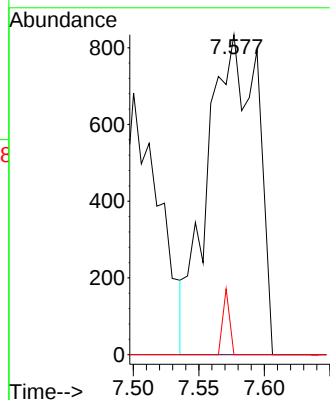
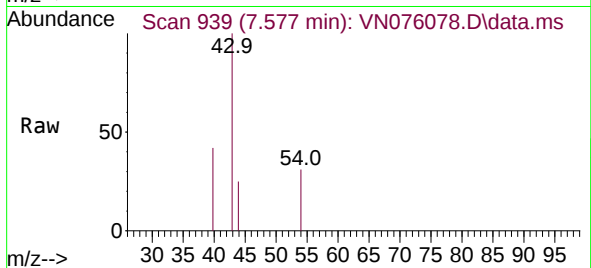
Tgt Ion: 43 Resp: 2189

Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.4#

70 2.8 9.4 14.0#



#38

Carbon Tetrachloride

Concen: 6.862 ug/l

RT: 8.236 min Scan# 1051

Delta R.T. -0.129 min

Lab File: VN076078.D

Acq: 04 Jan 2023 13:52

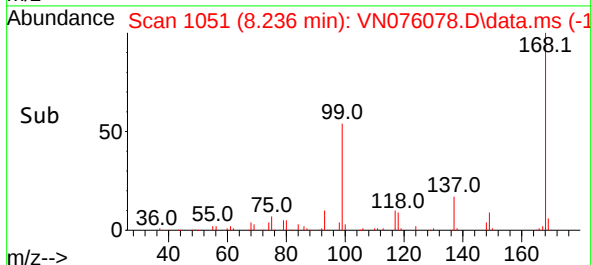
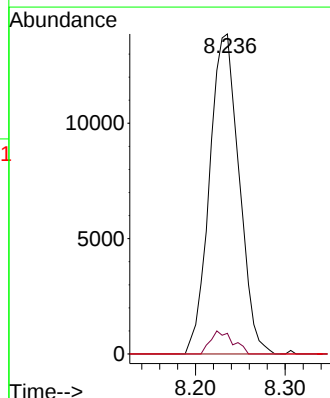
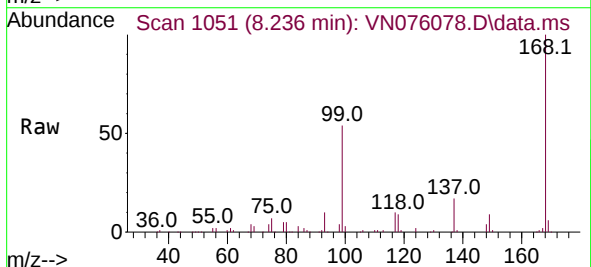
Tgt Ion: 117 Resp: 31775

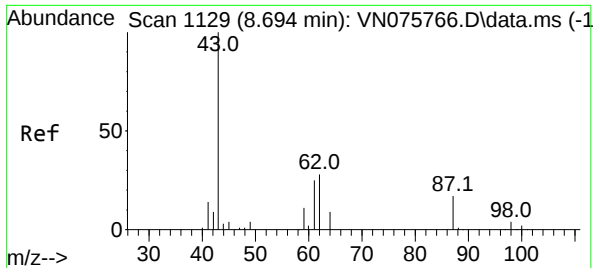
Ion Ratio Lower Upper

117 100

119 6.5 76.1 114.1#

121 0.0 24.5 36.7#

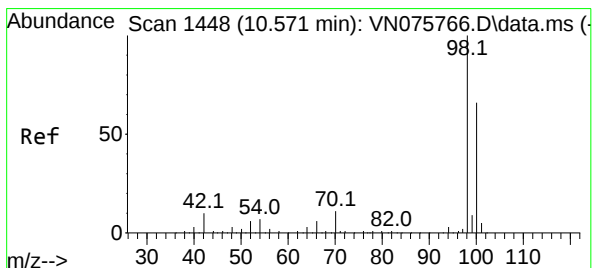
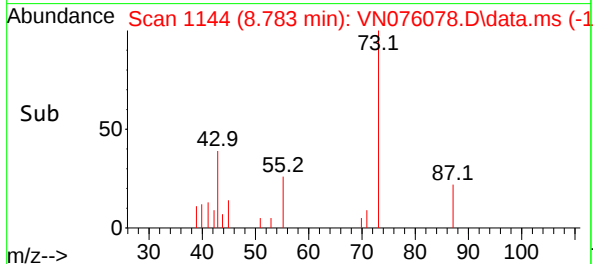
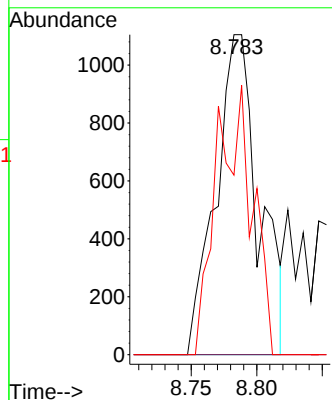
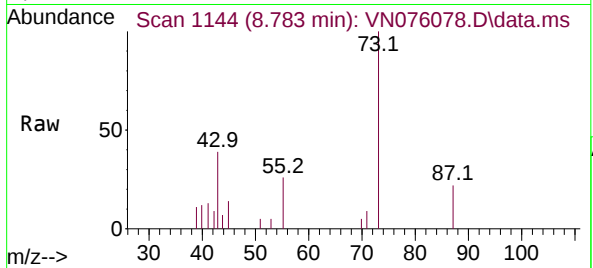




#43
Isopropyl Acetate
Concen: 0.458 ug/l
RT: 8.783 min Scan# 1129
Delta R.T. 0.088 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

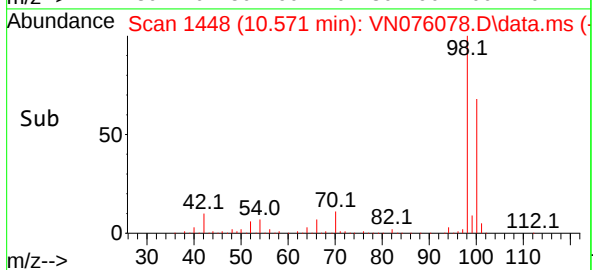
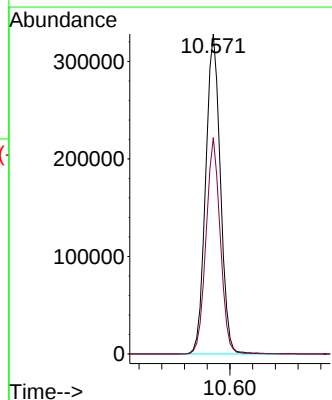
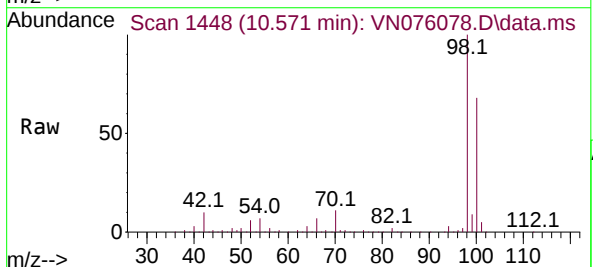
Instrument :
MSVOA_N
ClientSampleId :
MW-13DL

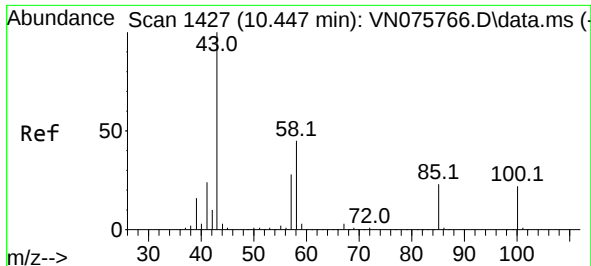
Tgt Ion: 43 Resp: 2511
Ion Ratio Lower Upper
43 100
61 0.0 24.2 36.4#
87 39.1 13.3 19.9#



#50
Toluene-d8
Concen: 50.491 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.000 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

Tgt Ion: 98 Resp: 587956
Ion Ratio Lower Upper
98 100
100 65.4 52.1 78.1

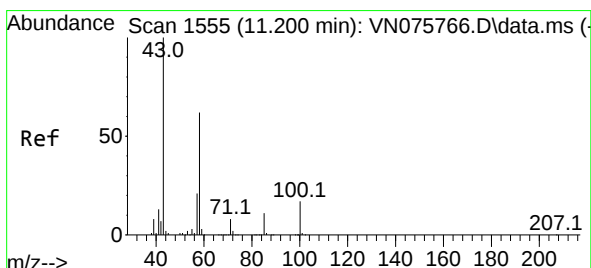
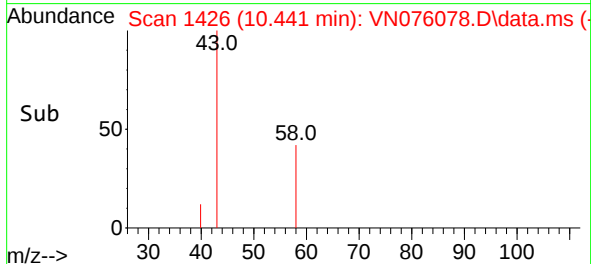
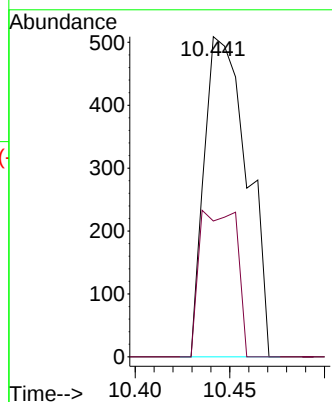
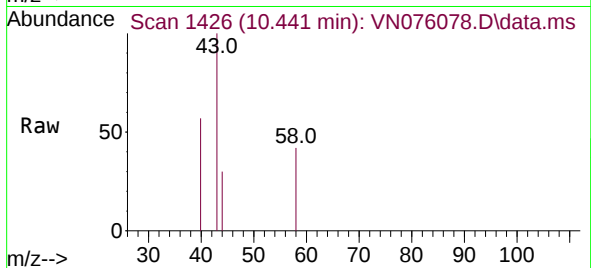




#51
4-Methyl-2-Pentanone
Concen: 0.241 ug/l
RT: 10.441 min Scan# 1426
Delta R.T. -0.006 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

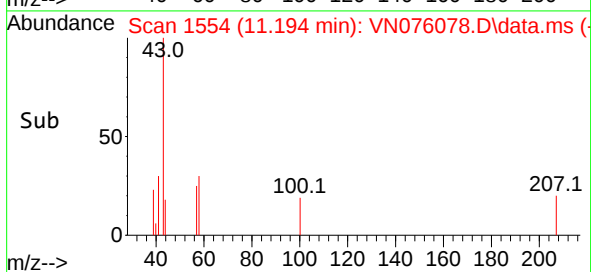
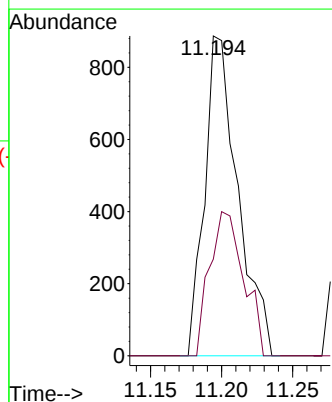
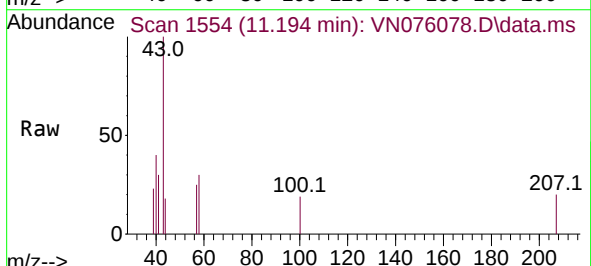
Instrument :
MSVOA_N
ClientSampleId :
MW-13DL

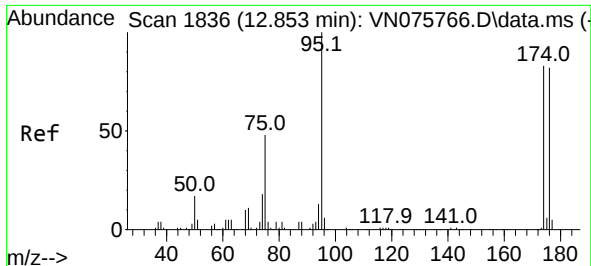
Tgt Ion: 43 Resp: 800
Ion Ratio Lower Upper
43 100
58 39.8 35.5 53.3



#59
2-Hexanone
Concen: 0.597 ug/l
RT: 11.194 min Scan# 1554
Delta R.T. -0.006 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

Tgt Ion: 43 Resp: 1443
Ion Ratio Lower Upper
43 100
58 46.3 30.6 92.0

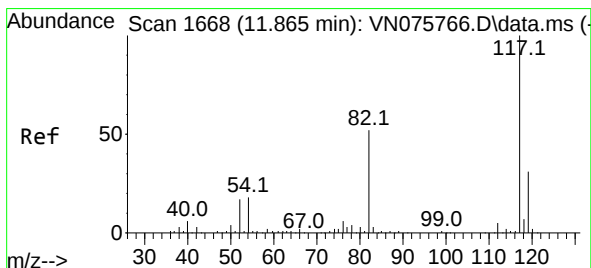
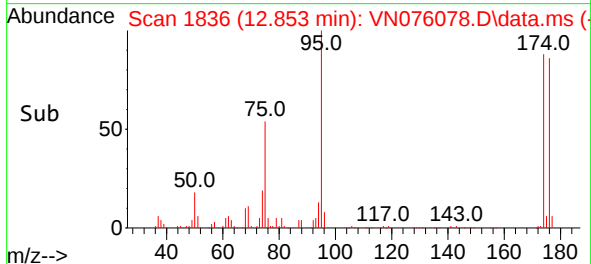
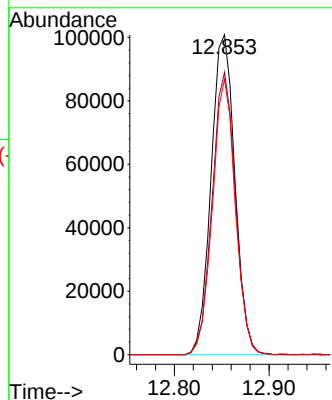
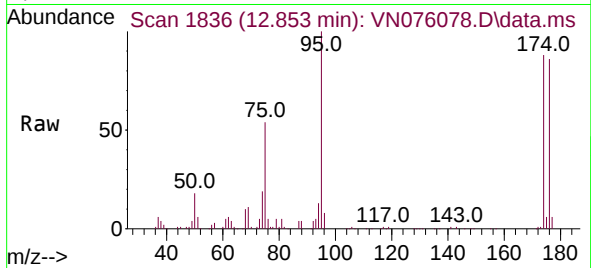




#62
4-Bromofluorobenzene
Concen: 45.754 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.000 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

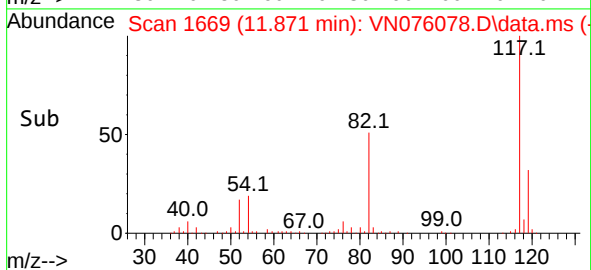
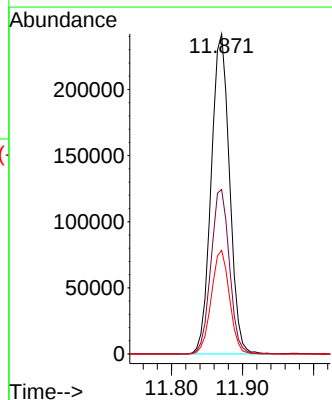
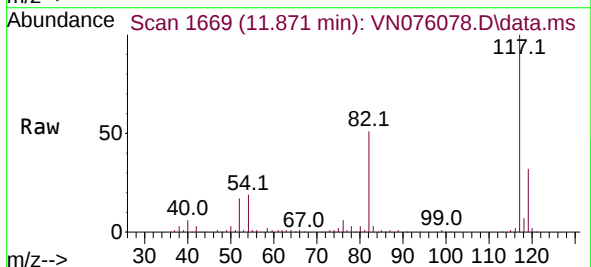
Instrument :
MSVOA_N
ClientSampleId :
MW-13DL

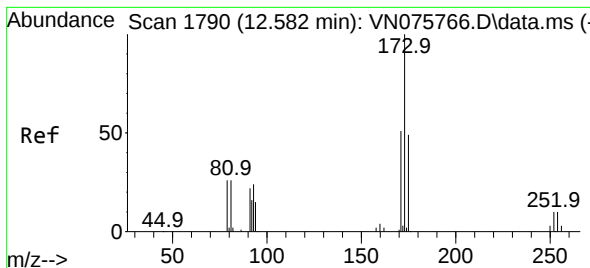
Tgt Ion: 95 Resp: 176468
Ion Ratio Lower Upper
95 100
174 86.6 0.0 171.6
176 82.8 0.0 169.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

Tgt Ion: 117 Resp: 433490
Ion Ratio Lower Upper
117 100
82 51.4 41.3 61.9
119 32.4 24.6 37.0





#71

Bromoform

Concen: 0.589 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.271 min

Lab File: VN076078.D

Acq: 04 Jan 2023 13:52

Instrument :

MSVOA_N

ClientSampleId :

MW-13DL

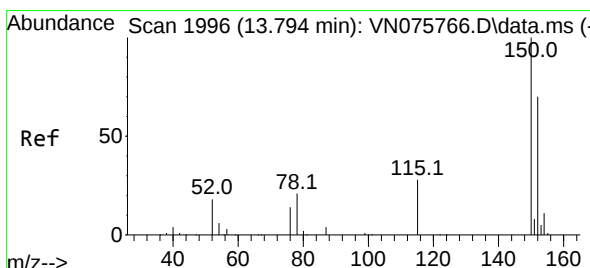
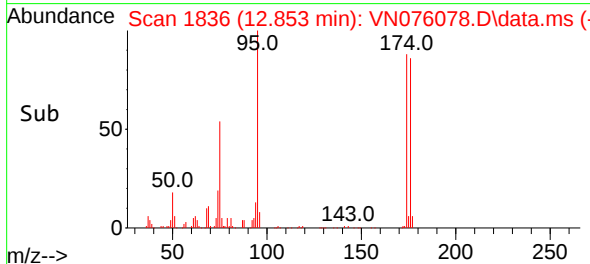
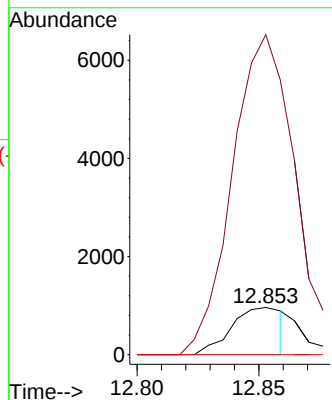
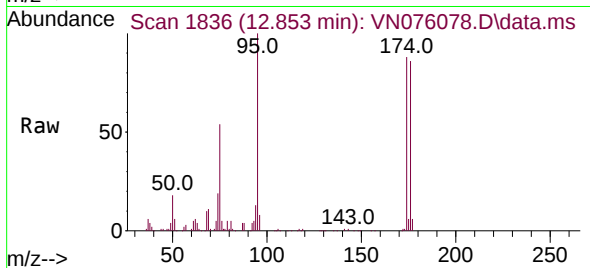
Tgt Ion:173 Resp: 1413

Ion Ratio Lower Upper

173 100

175 652.9 24.3 72.8#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 1996

Delta R.T. 0.000 min

Lab File: VN076078.D

Acq: 04 Jan 2023 13:52

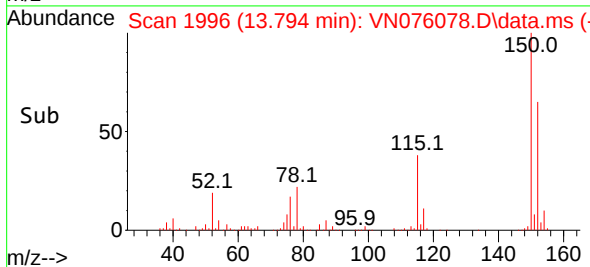
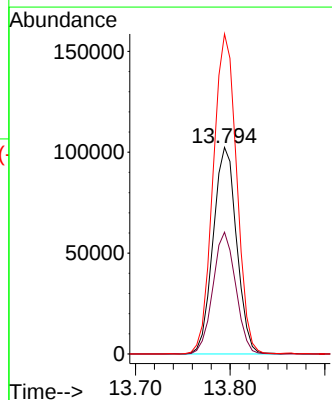
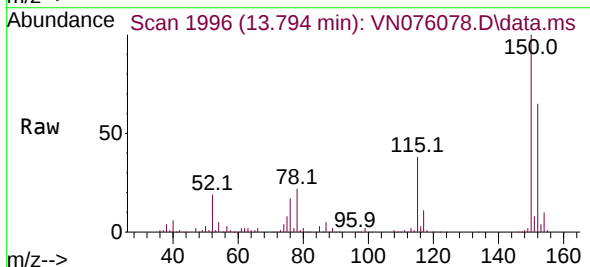
Tgt Ion:152 Resp: 176629

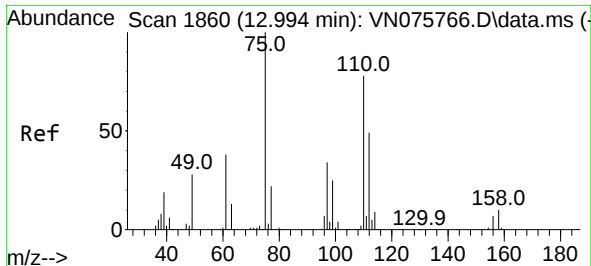
Ion Ratio Lower Upper

152 100

115 57.2 29.1 87.4

150 154.9 0.0 347.0

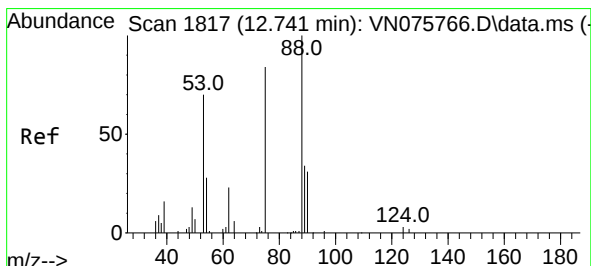
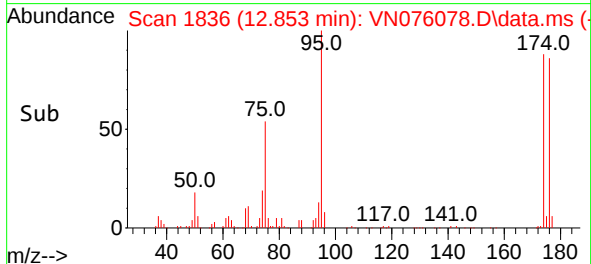
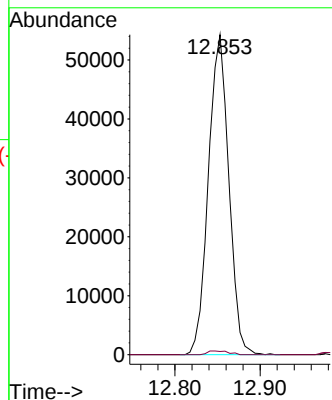
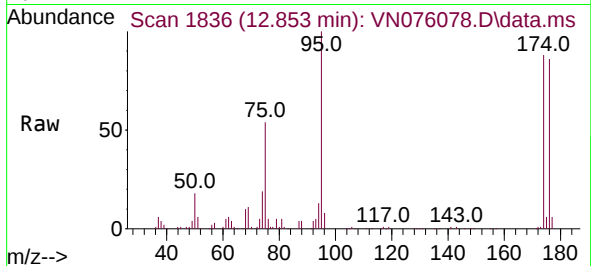




#76
1,2,3-Trichloropropane
Concen: 25.427 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

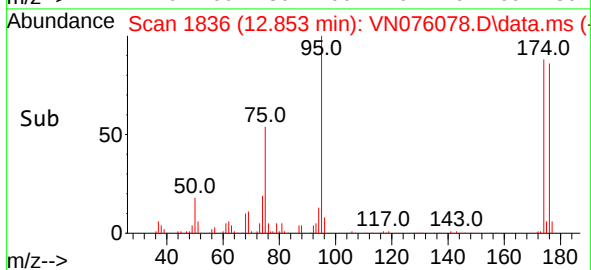
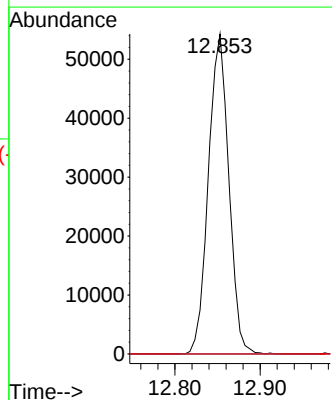
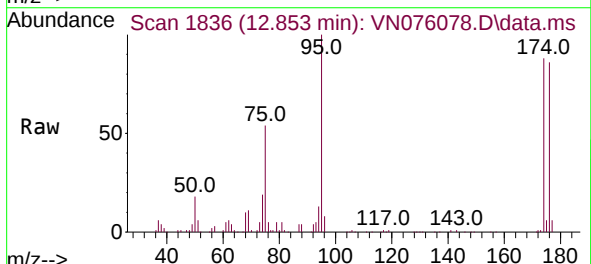
Instrument :
MSVOA_N
ClientSampleId :
MW-13DL

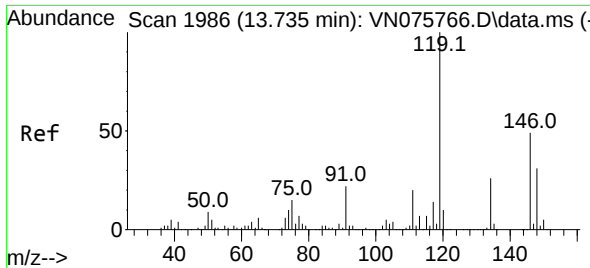
Tgt Ion: 75 Resp: 90529
Ion Ratio Lower Upper
75 100
77 1.2 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 91.523 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

Tgt Ion: 75 Resp: 90529
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 39.5 59.3#

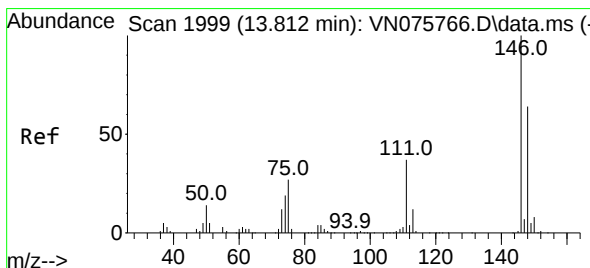
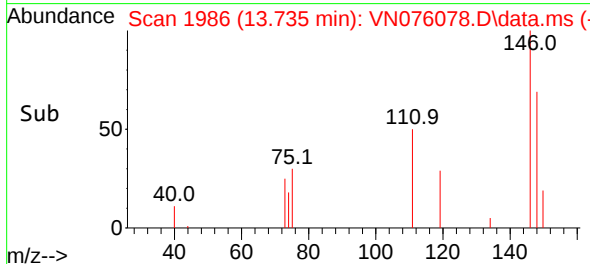
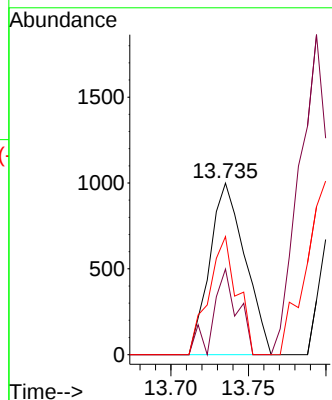
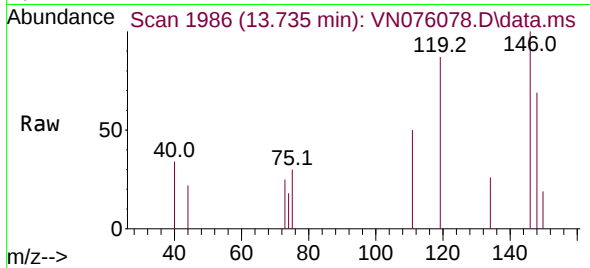




#87
1,3-Dichlorobenzene
Concen: 0.265 ug/l
RT: 13.735 min Scan# 1986
Delta R.T. 0.000 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

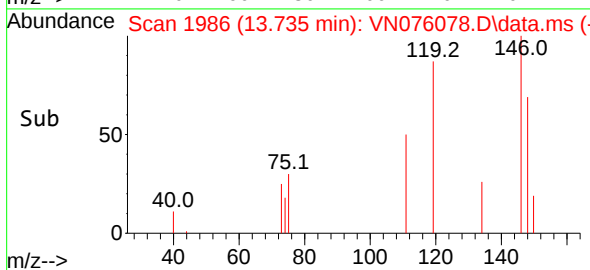
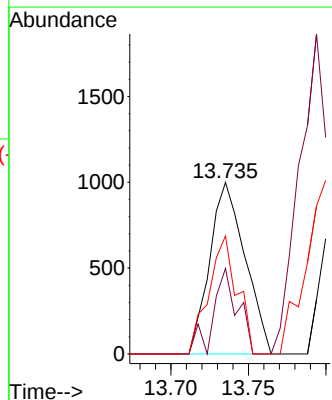
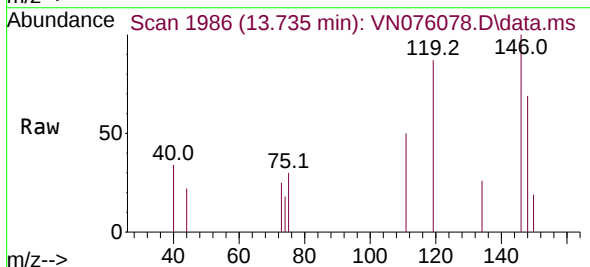
Instrument :
MSVOA_N
ClientSampleId :
MW-13DL

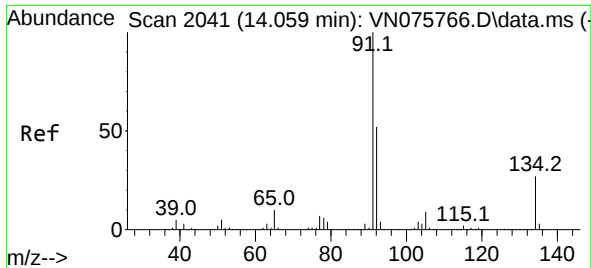
Tgt Ion:146 Resp: 1582
Ion Ratio Lower Upper
146 100
111 34.2 19.7 59.0
148 55.2 31.4 94.2



#88
1,4-Dichlorobenzene
Concen: 0.260 ug/l
RT: 13.735 min Scan# 1986
Delta R.T. -0.076 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

Tgt Ion:146 Resp: 1582
Ion Ratio Lower Upper
146 100
111 34.2 19.1 57.1
148 55.2 32.0 96.2



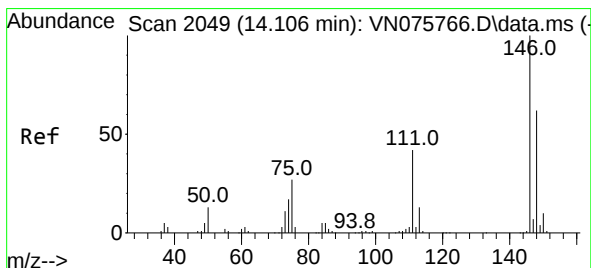
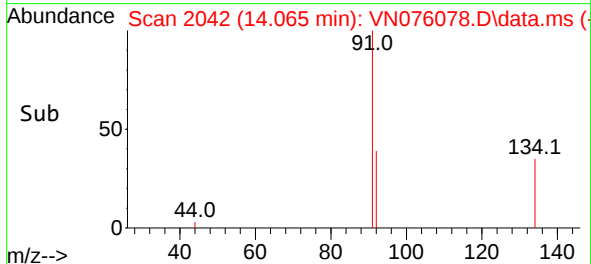
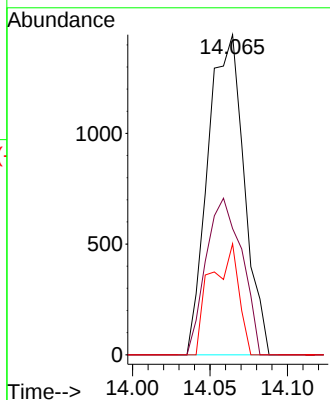
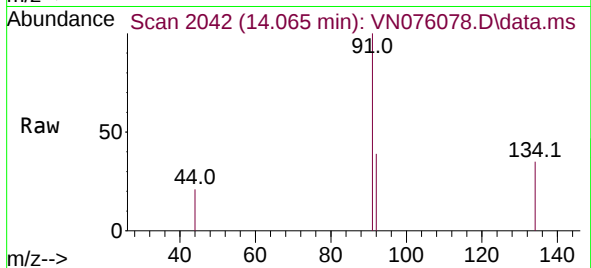


#89
n-Butylbenzene
Concen: 0.268 ug/l
RT: 14.065 min Scan# 2042
Delta R.T. 0.006 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

Instrument :
MSVOA_N
ClientSampleId :
MW-13DL

Tgt Ion: 91 Resp: 2347

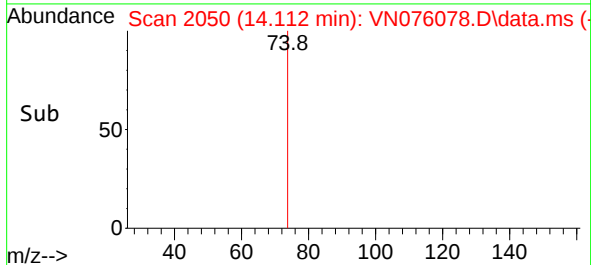
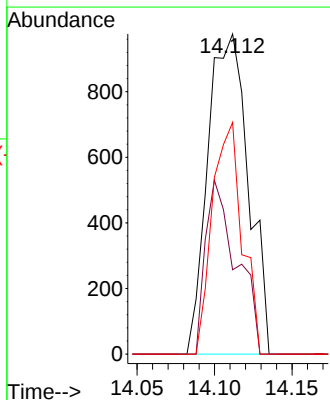
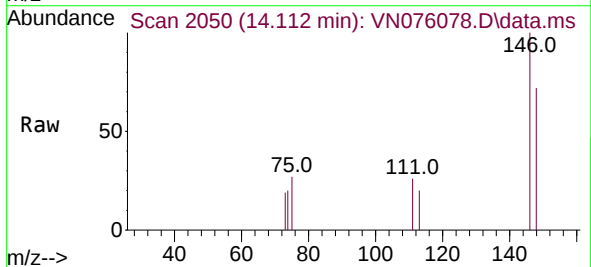
Ion	Ratio	Lower	Upper
91	100		
92	48.5	26.4	79.2
134	26.7	13.4	40.2

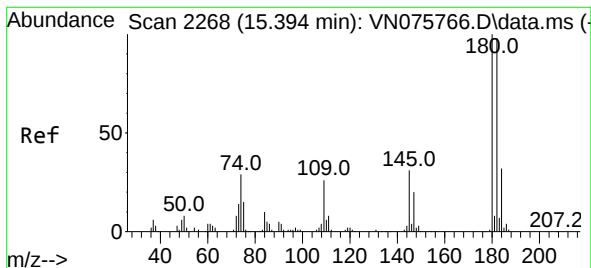


#91
1,2-Dichlorobenzene
Concen: 0.302 ug/l
RT: 14.112 min Scan# 2050
Delta R.T. 0.006 min
Lab File: VN076078.D
Acq: 04 Jan 2023 13:52

Tgt Ion: 146 Resp: 1773

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.3	61.0
148	53.4	31.7	95.1





#93

1,2,4-Trichlorobenzene

Concen: 0.708 ug/l

RT: 15.394 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN076078.D

Acq: 04 Jan 2023 13:52

Instrument :

MSVOA_N

ClientSampleId :

MW-13DL

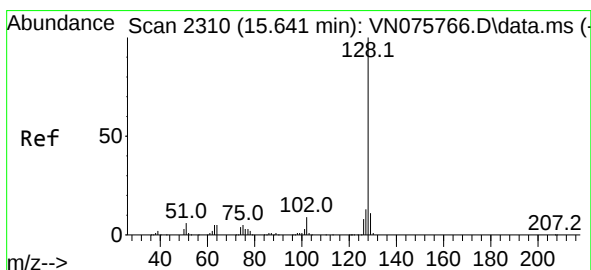
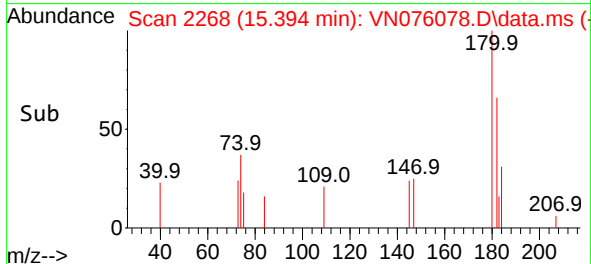
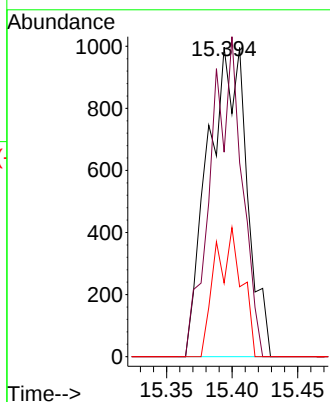
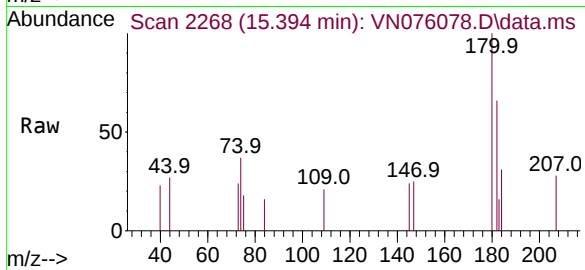
Tgt Ion:180 Resp: 2061

Ion Ratio Lower Upper

180 100

182 82.0 47.5 142.5

145 28.2 15.3 45.8



#95

Naphthalene

Concen: 3.079 ug/l

RT: 15.647 min Scan# 2311

Delta R.T. 0.006 min

Lab File: VN076078.D

Acq: 04 Jan 2023 13:52

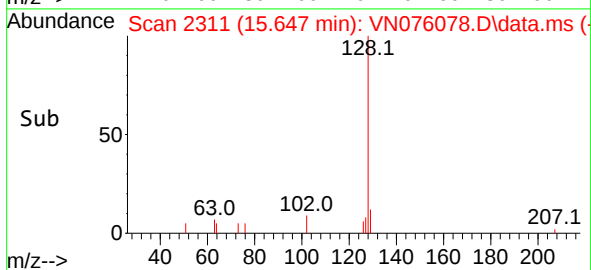
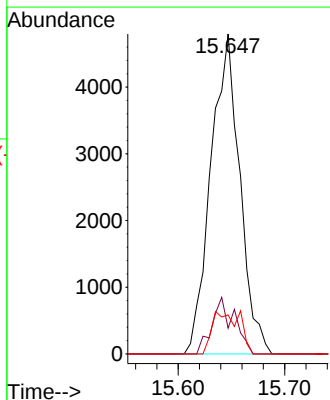
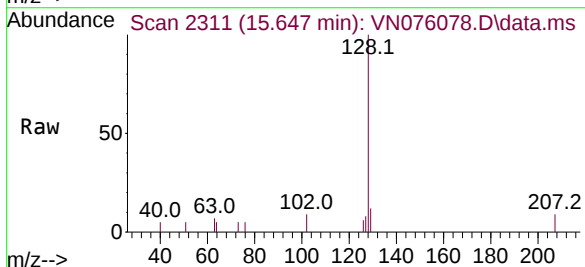
Tgt Ion:128 Resp: 9060

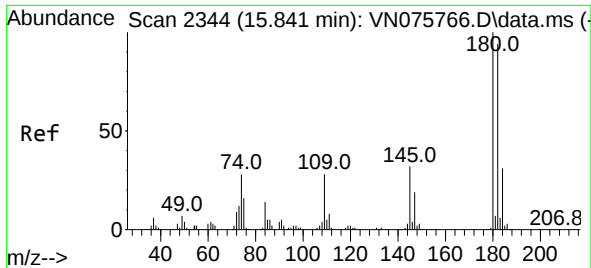
Ion Ratio Lower Upper

128 100

127 13.7 10.4 15.6

129 12.6 8.7 13.1





#96

1,2,3-Trichlorobenzene

Concen: 0.711 ug/l

RT: 15.841 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN076078.D

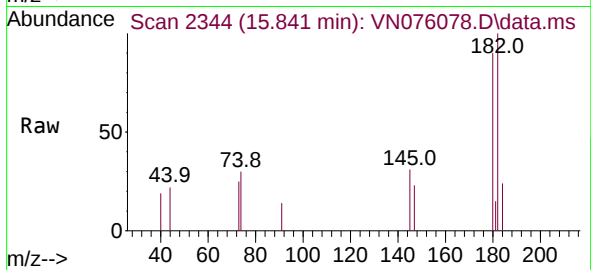
Acq: 04 Jan 2023 13:52

Instrument :

MSVOA_N

ClientSampleId :

MW-13DL



Tgt Ion:180 Resp: 1933

Ion Ratio Lower Upper

180 100

182 121.9 47.0 141.0

145 28.0 16.0 47.9

