

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011723\
 Data File : VN076279.D
 Acq On : 17 Jan 2023 14:48
 Operator : JC\MD
 Sample : 01159-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-E

Quant Time: Jan 18 00:55:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011623W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 17 03:59:22 2023
 Response via : Initial Calibration

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

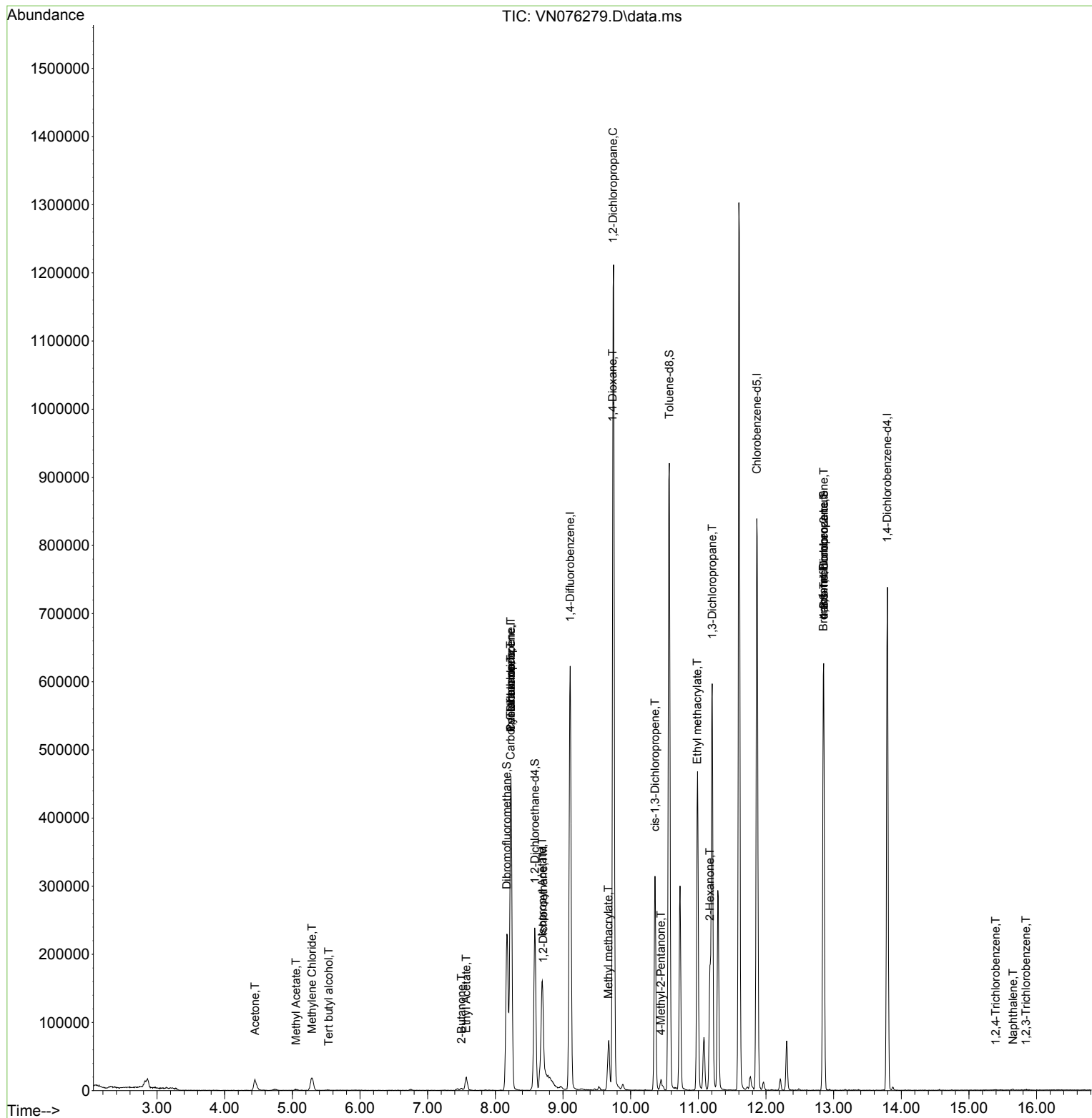
Internal Standards						
1) Pentafluorobenzene	8.230	168	352988	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	573651	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	508686	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	205212	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	190158	48.113	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.220%		
35) Dibromofluoromethane	8.171	113	169507	47.237	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.480%		
50) Toluene-d8	10.571	98	668894	50.473	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.940%		
62) 4-Bromofluorobenzene	12.853	95	210069	48.556	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	97.120%		
Target Compounds						Qvalue
11) Tert butyl alcohol	5.536	59	369	0.698	ug/l #	72
16) Acetone	4.448	43	31264	24.609	ug/l	95
18) Methyl Acetate	5.054	43	1948	0.454	ug/l #	89
20) Methylene Chloride	5.289	84	16419	3.823	ug/l	94
25) 2-Butanone	7.501	43	4451	2.300	ug/l	89
31) Cyclohexane	8.230	56	6804	1.121	ug/l #	9
36) 1,1-Dichloropropene	8.230	75	26359	5.169	ug/l #	49
37) Ethyl Acetate	7.571	43	26585	6.532	ug/l	96
38) Carbon Tetrachloride	8.224	117	34441	6.057	ug/l #	16
42) 1,2-Dichloroethane	8.706	62	1304	0.250	ug/l #	73
43) Isopropyl Acetate	8.695	43	221297	33.260	ug/l #	77
45) 1,2-Dichloropropane	9.742	63	1681	0.460	ug/l #	42
48) Methyl methacrylate	9.671	41	3620	1.149	ug/l #	39
49) 1,4-Dioxane	9.736	88	53	0.797	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	14568	3.730	ug/l #	73
54) cis-1,3-Dichloropropene	10.359	75	61055	10.414	ug/l #	61
56) Ethyl methacrylate	10.983	69	1883	0.374	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	6502	1.027	ug/l #	42
59) 2-Hexanone	11.171	43	147308	52.045	ug/l #	21
71) Bromoform	12.847	173	1594	0.552	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	108270	28.555	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	108270	87.784	ug/l #	11
93) 1,2,4-Trichlorobenzene	15.394	180	243	1.371	ug/l #	32
95) Naphthalene	15.653	128	1853	2.006	ug/l #	78
96) 1,2,3-Trichlorobenzene	15.841	180	278	1.233	ug/l #	58

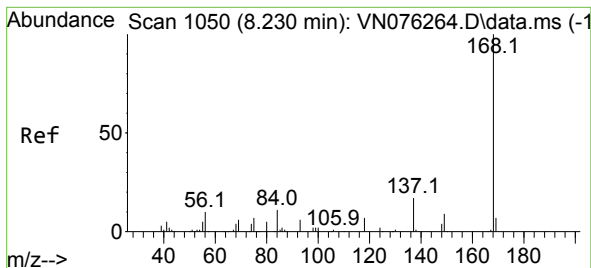
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN076279.D

Acq: 17 Jan 2023 14:48

Instrument :

MSVOA_N

ClientSampleId :

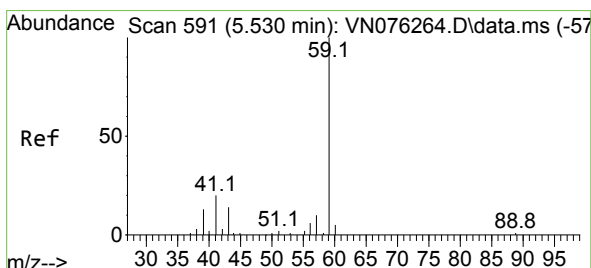
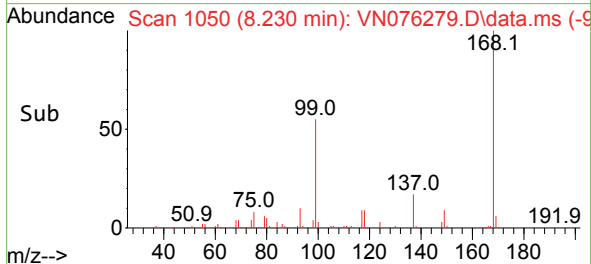
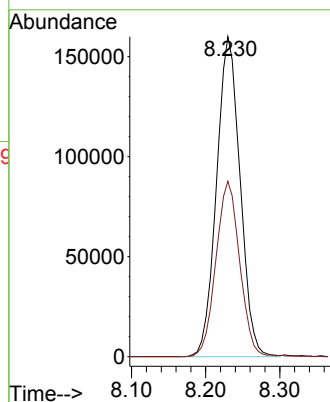
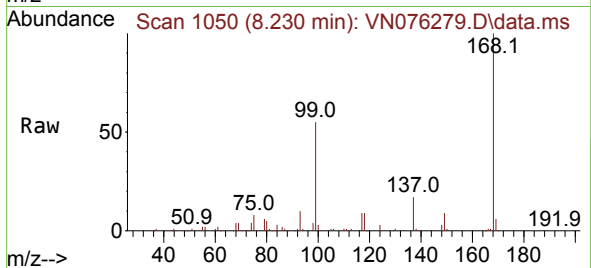
TP-E

Tgt Ion:168 Resp: 352988

Ion Ratio Lower Upper

168 100

99 54.8 41.6 62.4



#11

Tert butyl alcohol

Concen: 0.698 ug/l

RT: 5.536 min Scan# 592

Delta R.T. 0.006 min

Lab File: VN076279.D

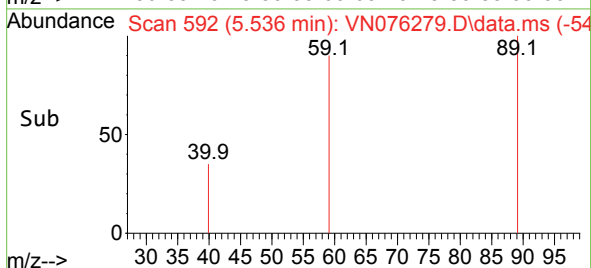
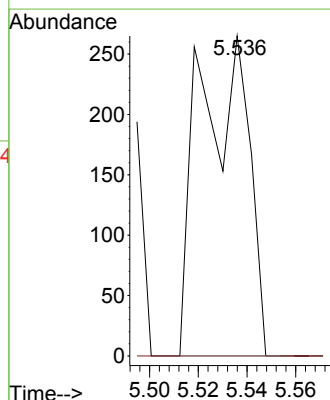
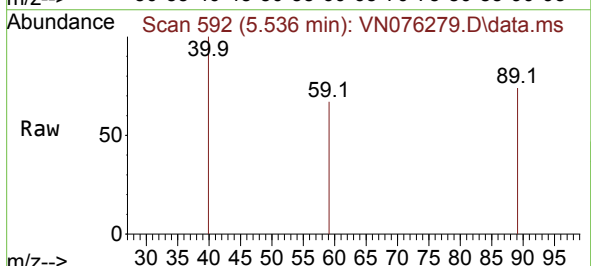
Acq: 17 Jan 2023 14:48

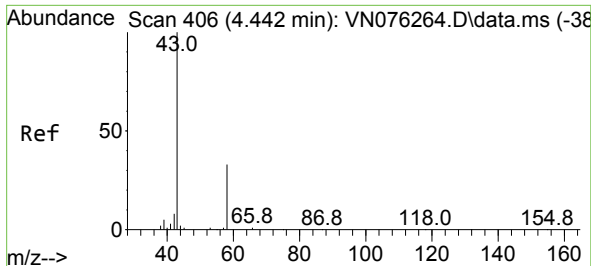
Tgt Ion: 59 Resp: 369

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#

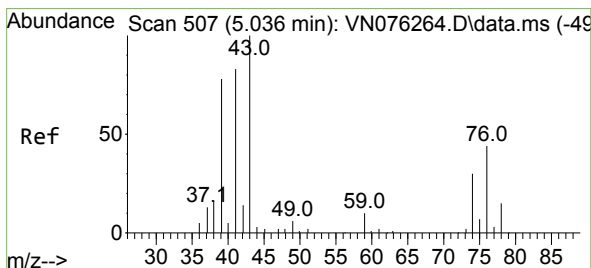
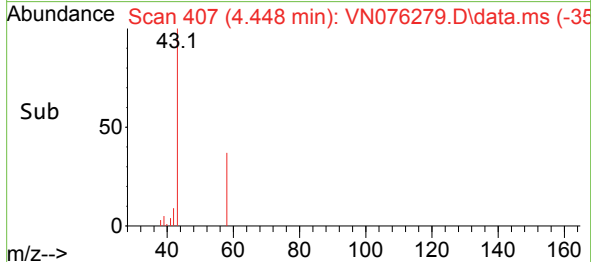
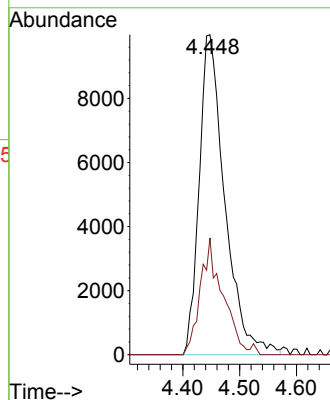
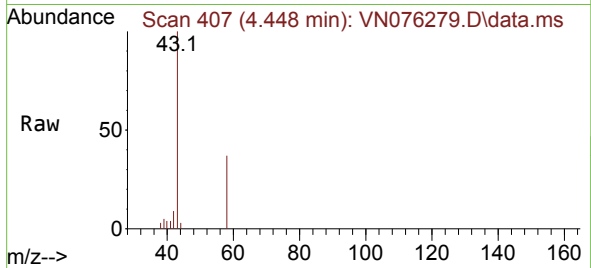




#16
Acetone
Concen: 24.609 ug/l
RT: 4.448 min Scan# 406
Delta R.T. 0.006 min
Lab File: VN076279.D
Acq: 17 Jan 2023 14:48

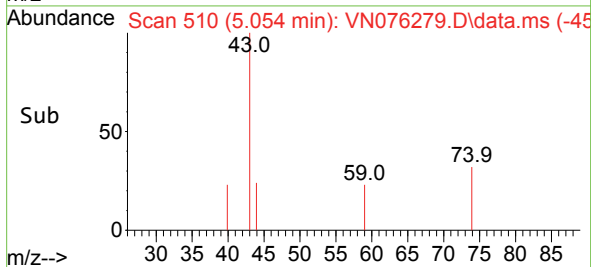
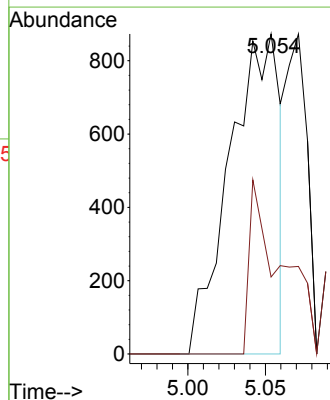
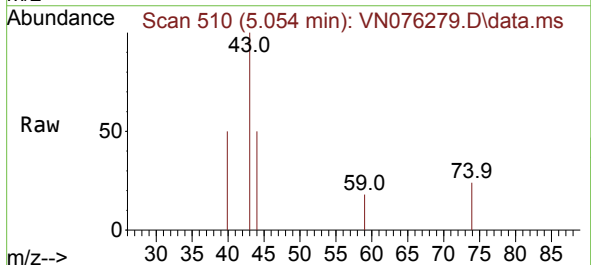
Instrument :
MSVOA_N
ClientSampleId :
TP-E

Tgt Ion: 43 Resp: 31264
Ion Ratio Lower Upper
43 100
58 36.5 26.7 40.1



#18
Methyl Acetate
Concen: 0.454 ug/l
RT: 5.054 min Scan# 510
Delta R.T. 0.018 min
Lab File: VN076279.D
Acq: 17 Jan 2023 14:48

Tgt Ion: 43 Resp: 1948
Ion Ratio Lower Upper
43 100
74 35.1 23.3 34.9#

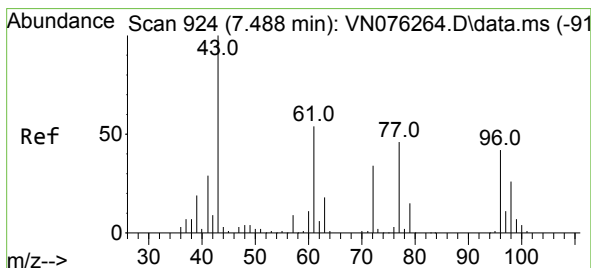
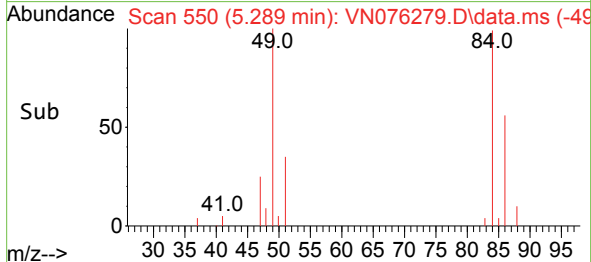
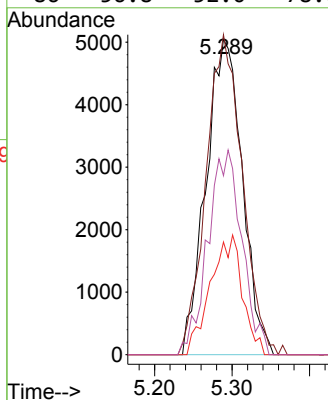
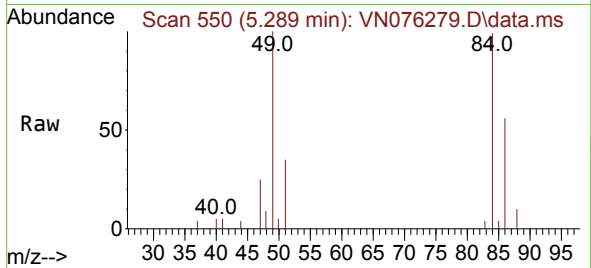




#20
Methylene Chloride
Concen: 3.823 ug/l
RT: 5.289 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN076279.D
Acq: 17 Jan 2023 14:48

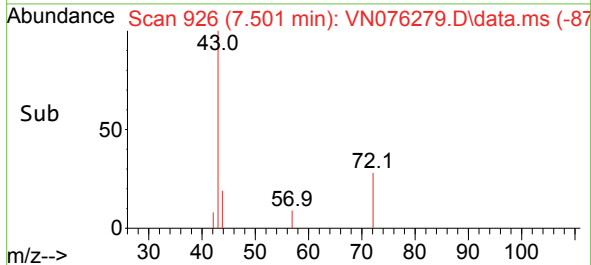
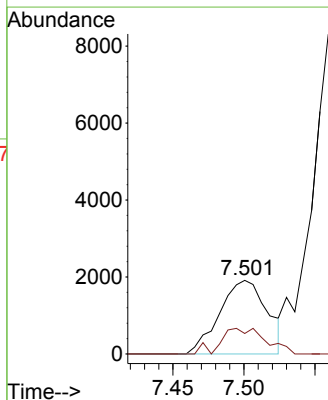
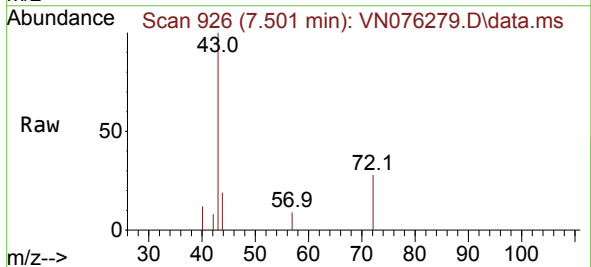
Instrument :
MSVOA_N
ClientSampleId :
TP-E

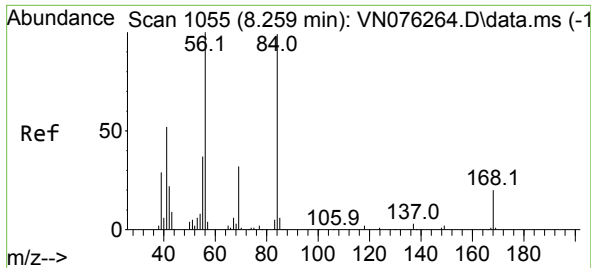
Tgt Ion: 84	Resp: 16419
Ion Ratio	Lower Upper
84 100	
49 101.5	84.5 126.7
51 35.7	26.0 39.0
86 56.8	52.0 78.0



#25
2-Butanone
Concen: 2.300 ug/l
RT: 7.501 min Scan# 926
Delta R.T. 0.013 min
Lab File: VN076279.D
Acq: 17 Jan 2023 14:48

Tgt Ion: 43	Resp: 4451		
Ion Ratio	Lower	Upper	
43 100			
72 27.8	27.4	41.2	

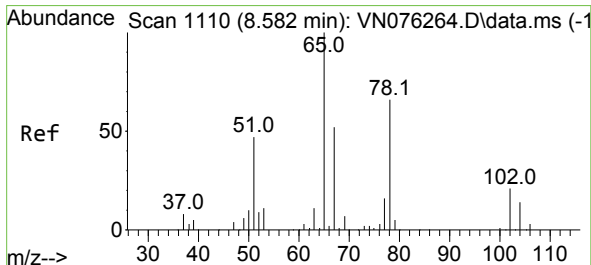
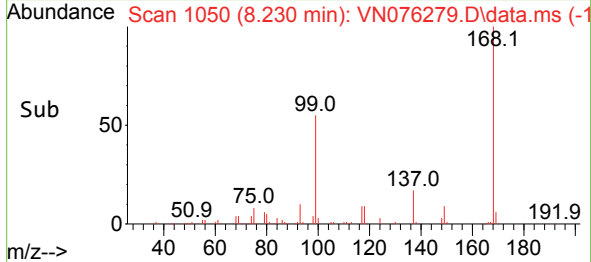
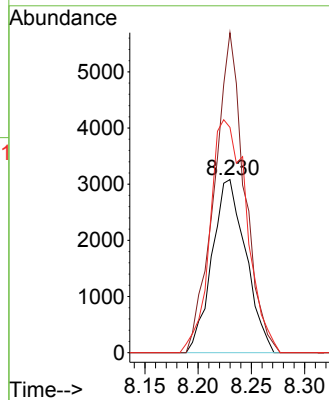
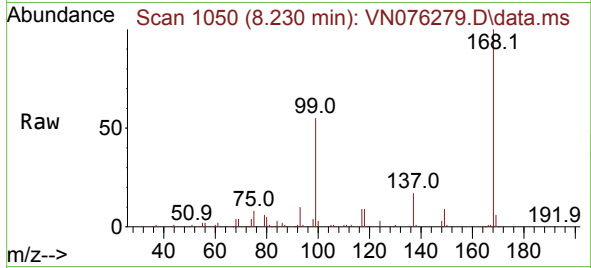




#31
Cyclohexane
Concen: 1.121 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.029 min
Lab File: VN076279.D
Acq: 17 Jan 2023 14:48

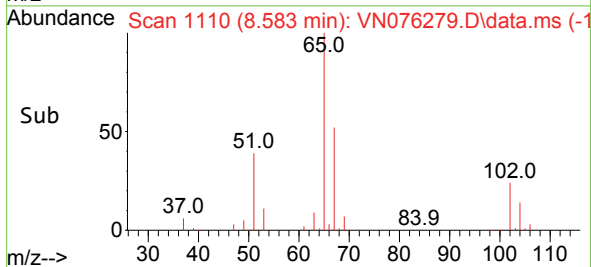
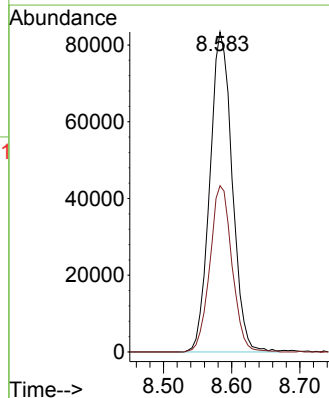
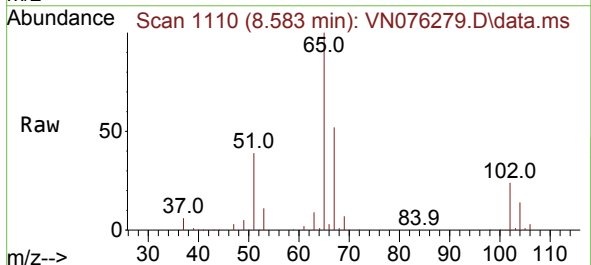
Instrument :
MSVOA_N
ClientSampleId :
TP-E

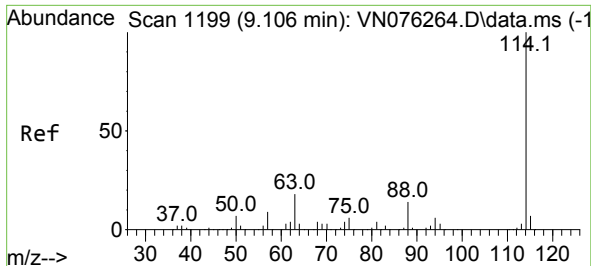
Tgt Ion: 56 Resp: 6804
Ion Ratio Lower Upper
56 100
69 184.9 25.8 38.8#
84 130.2 79.0 118.4#



#33
1,2-Dichloroethane-d4
Concen: 48.113 ug/l
RT: 8.583 min Scan# 1110
Delta R.T. 0.001 min
Lab File: VN076279.D
Acq: 17 Jan 2023 14:48

Tgt Ion: 65 Resp: 190158
Ion Ratio Lower Upper
65 100
67 51.5 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN076279.D

Acq: 17 Jan 2023 14:48

Instrument :

MSVOA_N

ClientSampleId :

TP-E

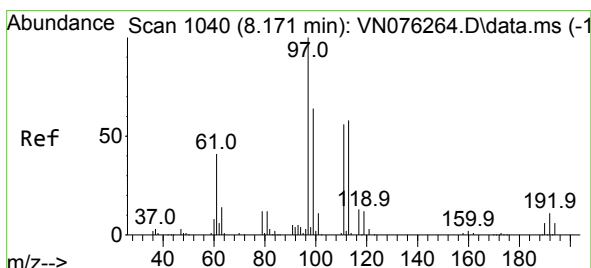
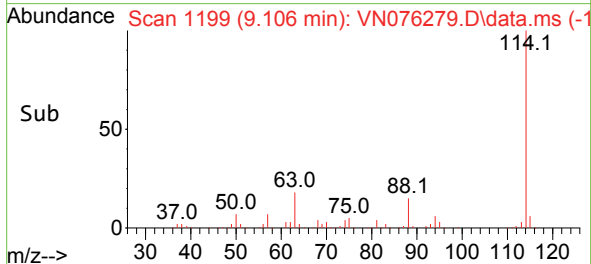
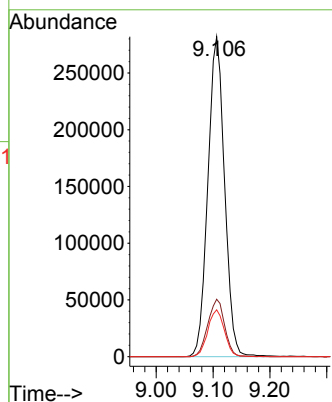
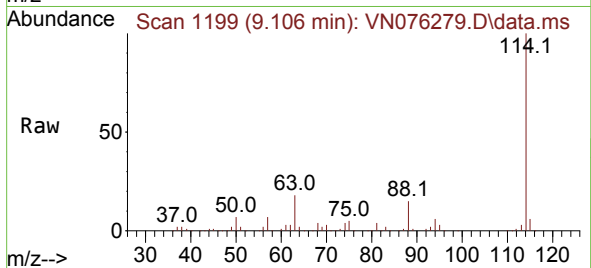
Tgt Ion:114 Resp: 573651

Ion Ratio Lower Upper

114 100

63 17.9 0.0 35.8

88 14.6 0.0 28.0



#35

Dibromofluoromethane

Concen: 47.237 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VN076279.D

Acq: 17 Jan 2023 14:48

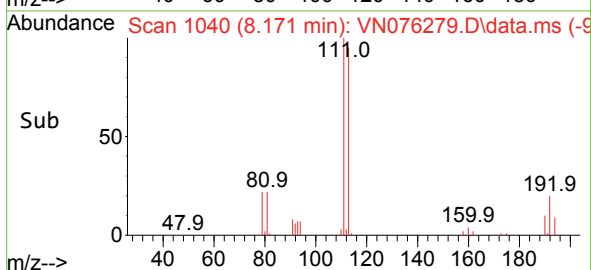
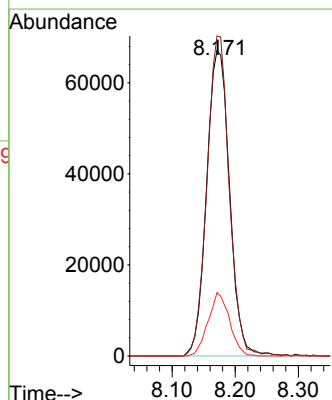
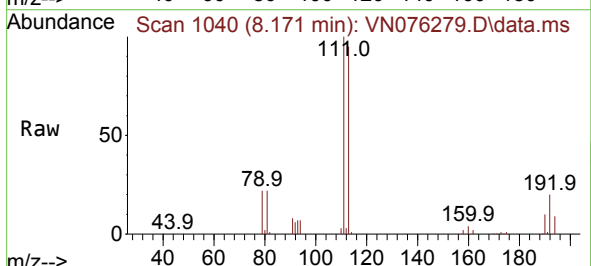
Tgt Ion:113 Resp: 169507

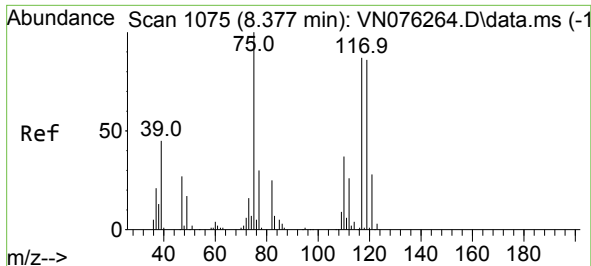
Ion Ratio Lower Upper

113 100

111 101.5 82.7 124.1

192 19.4 15.6 23.4





#36

1,1-Dichloropropene

Concen: 5.169 ug/l

RT: 8.230 min Scan# 1075

Delta R.T. -0.147 min

Lab File: VN076279.D

Acq: 17 Jan 2023 14:48

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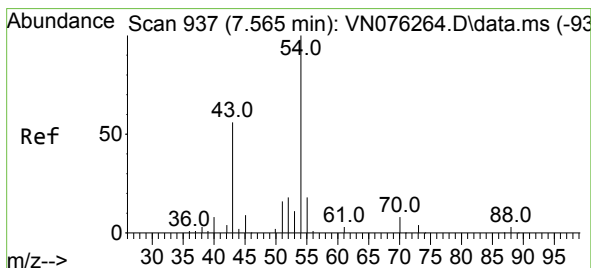
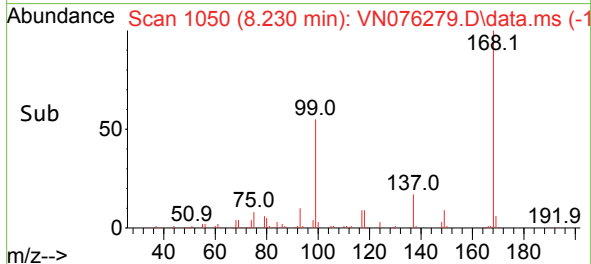
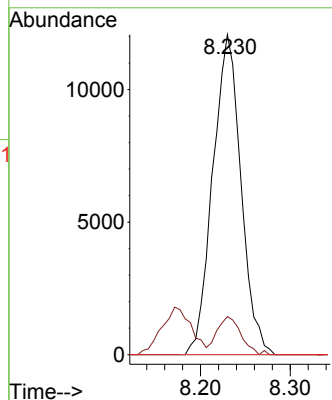
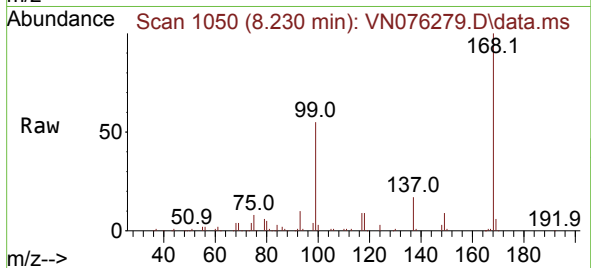
Tgt Ion: 75 Resp: 26359

Ion Ratio Lower Upper

75 100

110 10.2 18.8 56.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 6.532 ug/l

RT: 7.571 min Scan# 938

Delta R.T. 0.006 min

Lab File: VN076279.D

Acq: 17 Jan 2023 14:48

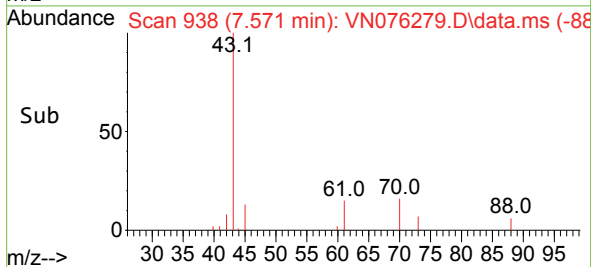
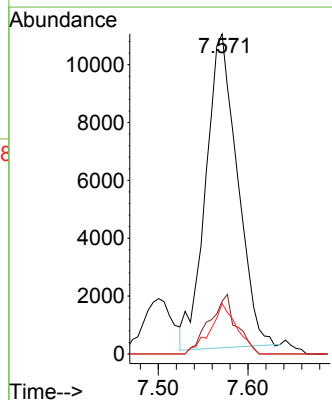
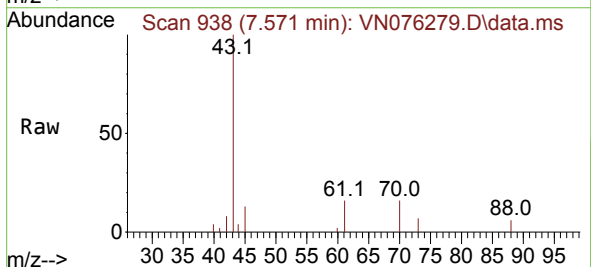
Tgt Ion: 43 Resp: 26585

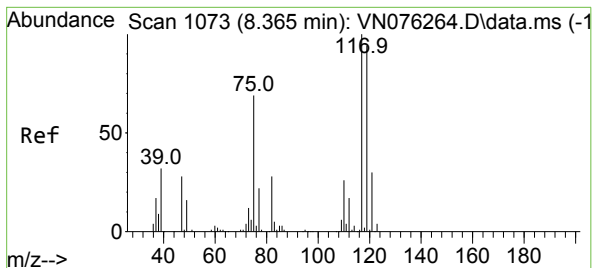
Ion Ratio Lower Upper

43 100

61 16.1 11.1 16.7

70 13.5 10.0 15.0





#38

Carbon Tetrachloride

Concen: 6.057 ug/l

RT: 8.224 min Scan# 1109

Delta R.T. -0.141 min

Lab File: VN076279.D

Acq: 17 Jan 2023 14:48

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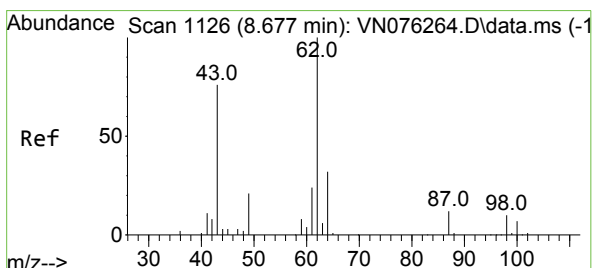
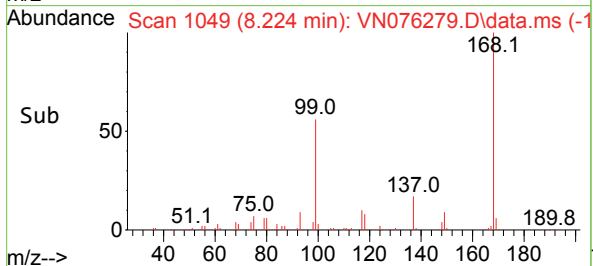
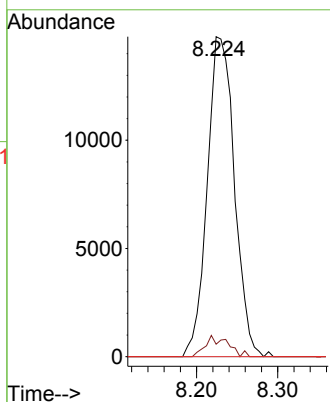
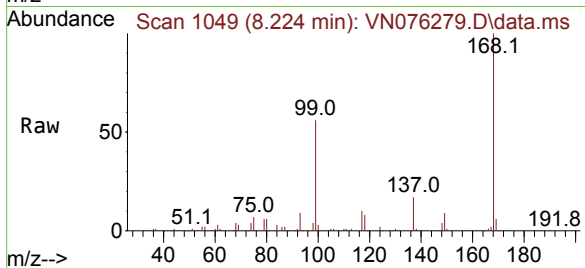
Tgt Ion:117 Resp: 34441

Ion Ratio Lower Upper

117 100

119 3.9 75.4 113.0#

121 0.0 24.2 36.2#



#42

1,2-Dichloroethane

Concen: 0.250 ug/l

RT: 8.706 min Scan# 1131

Delta R.T. 0.029 min

Lab File: VN076279.D

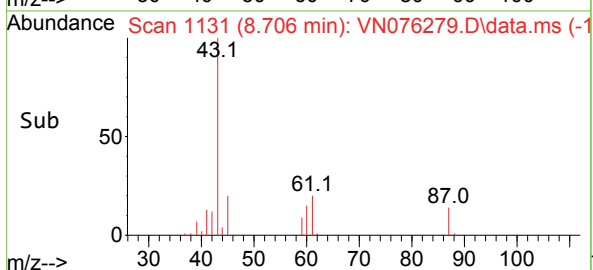
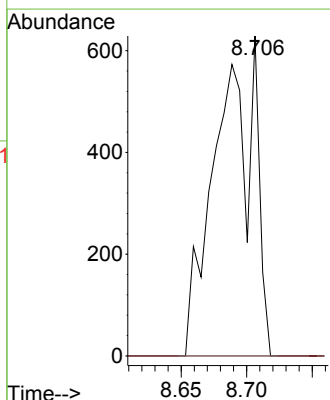
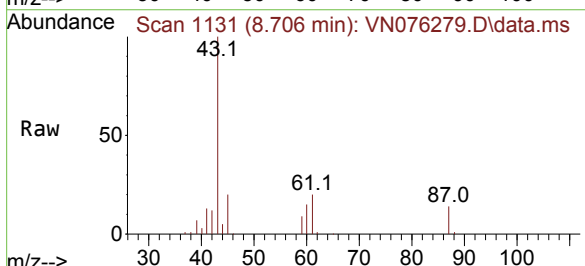
Acq: 17 Jan 2023 14:48

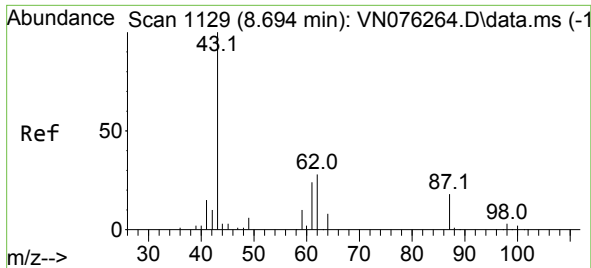
Tgt Ion: 62 Resp: 1304

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.4

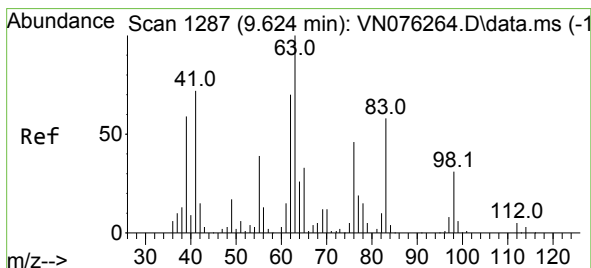
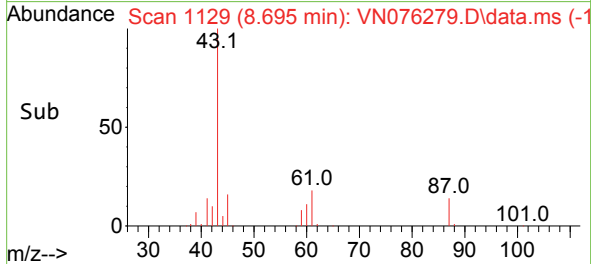
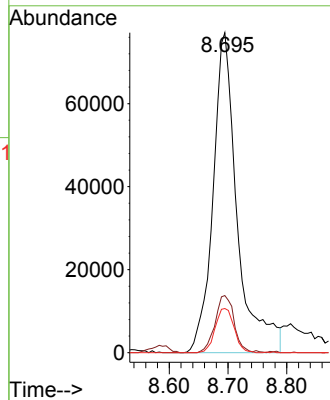
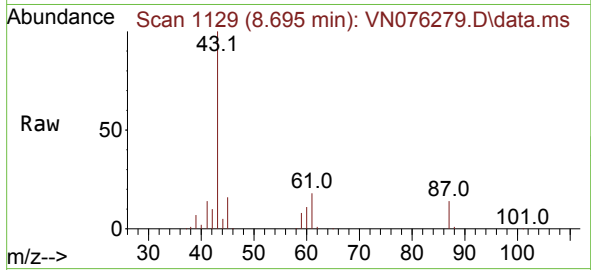




#43
Isopropyl Acetate
Concen: 33.260 ug/l
RT: 8.695 min Scan# 1129
Delta R.T. 0.001 min
Lab File: VN076279.D
Acq: 17 Jan 2023 14:48

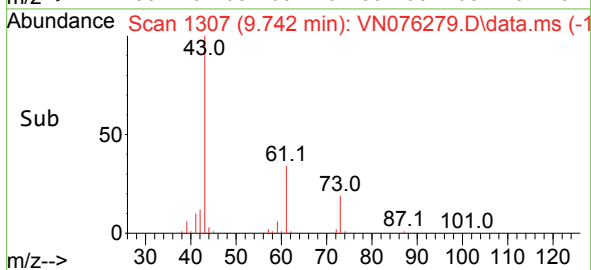
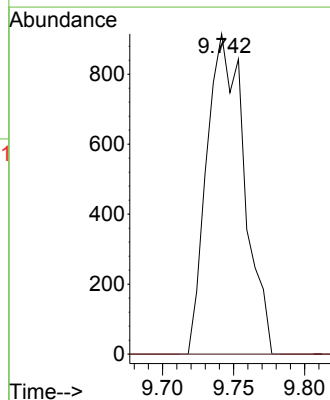
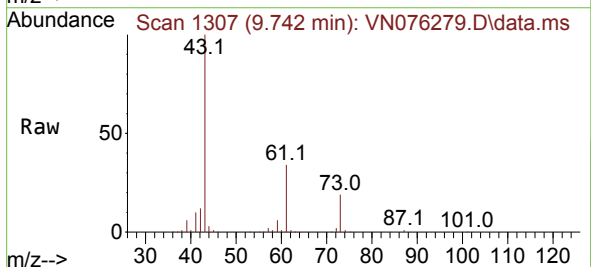
Instrument :
MSVOA_N
ClientSampleId :
TP-E

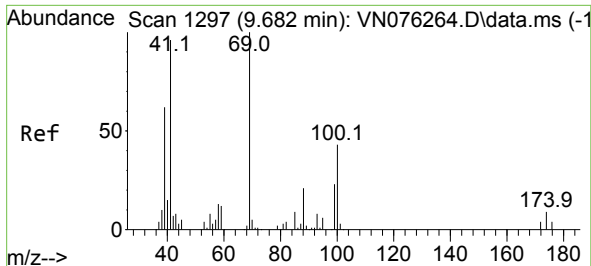
Tgt Ion: 43 Resp: 221297
Ion Ratio Lower Upper
43 100
61 14.1 23.5 35.3#
87 10.7 13.8 20.6#



#45
1,2-Dichloropropane
Concen: 0.460 ug/l
RT: 9.742 min Scan# 1307
Delta R.T. 0.118 min
Lab File: VN076279.D
Acq: 17 Jan 2023 14:48

Tgt Ion: 63 Resp: 1681
Ion Ratio Lower Upper
63 100
65 0.0 26.4 39.6#

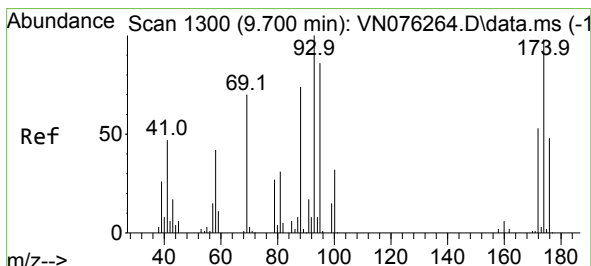
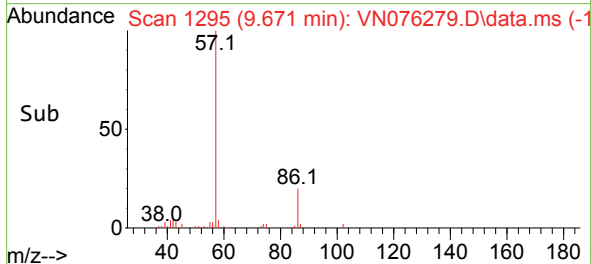
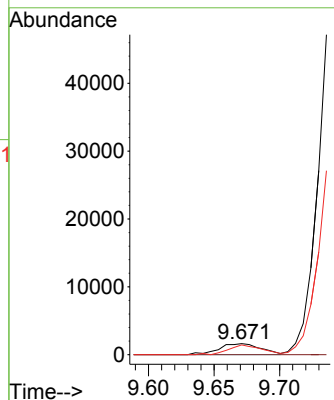
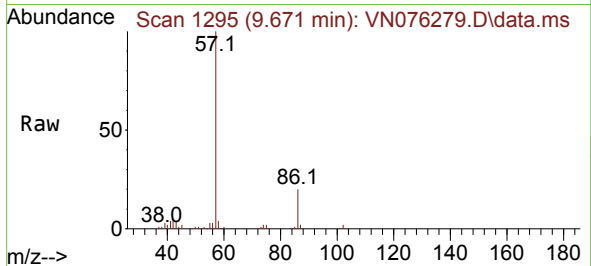




#48
Methyl methacrylate
Concen: 1.149 ug/l
RT: 9.671 min Scan# 1305
Delta R.T. -0.011 min
Lab File: VN076279.D
Acq: 17 Jan 2023 14:48

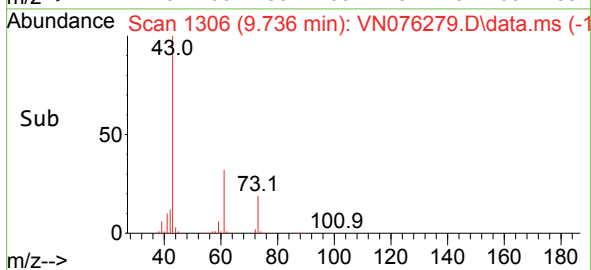
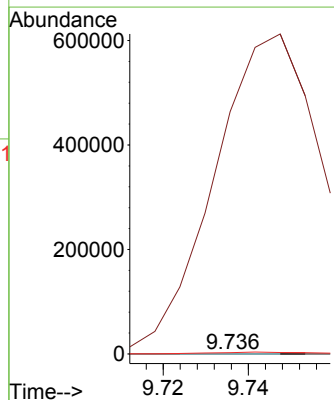
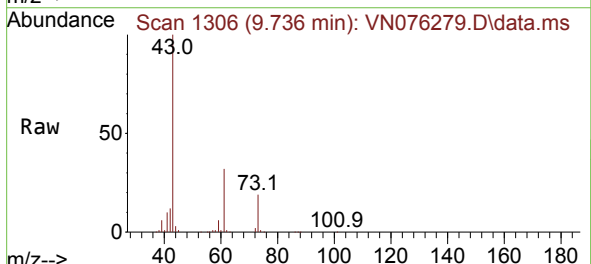
Instrument :
MSVOA_N
ClientSampleId :
TP-E

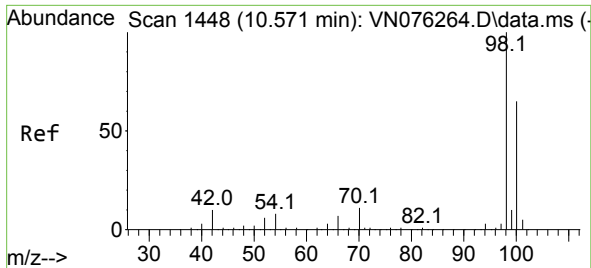
Tgt Ion: 41 Resp: 3620
Ion Ratio Lower Upper
41 100
69 0.0 80.8 121.2#
39 70.1 54.4 81.6



#49
1,4-Dioxane
Concen: 0.797 ug/l
RT: 9.736 min Scan# 1306
Delta R.T. 0.036 min
Lab File: VN076279.D
Acq: 17 Jan 2023 14:48

Tgt Ion: 88 Resp: 53
Ion Ratio Lower Upper
88 100
43 2126917.0 18.1 27.1#
58 11550.9 46.5 69.7#

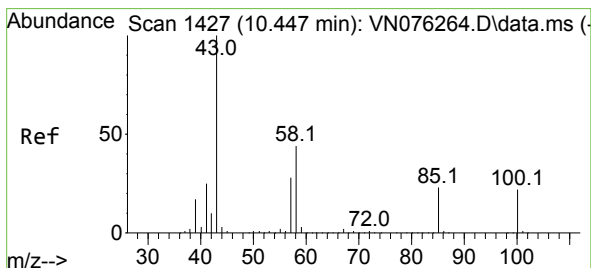
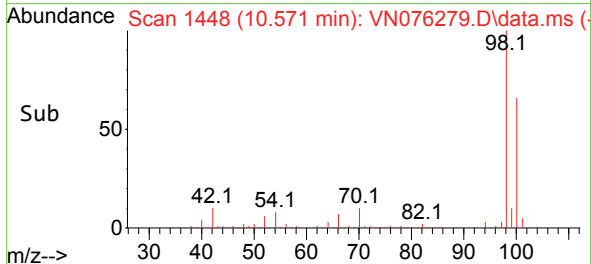
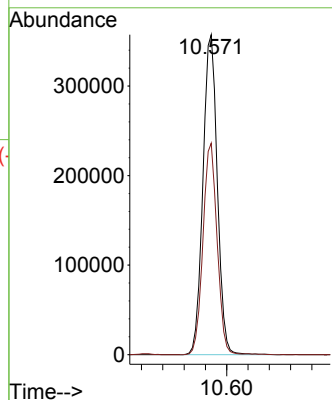
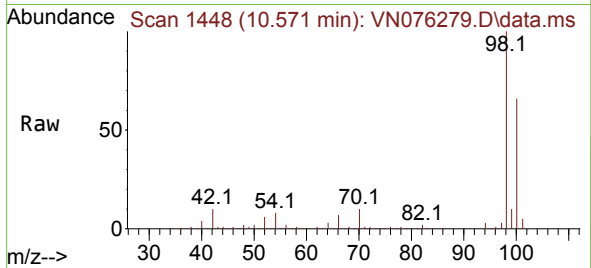




#50
Toluene-d8
Concen: 50.473 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN076279.D
Acq: 17 Jan 2023 14:48

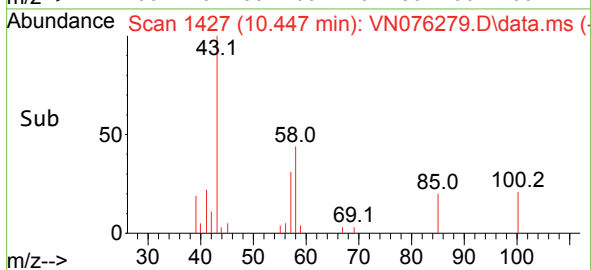
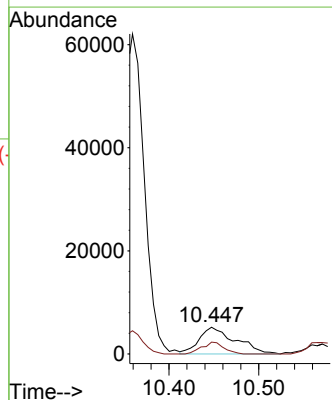
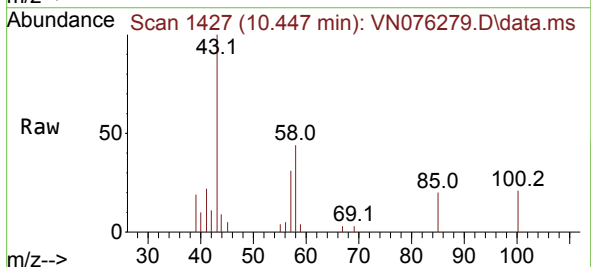
Instrument :
MSVOA_N
ClientSampleId :
TP-E

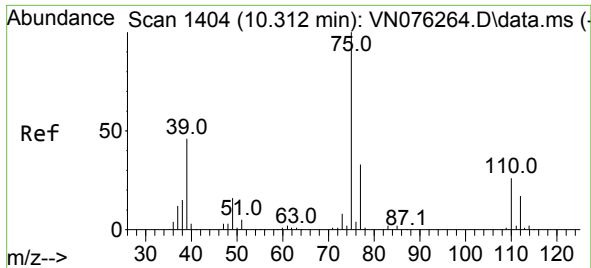
Tgt Ion: 98 Resp: 668894
Ion Ratio Lower Upper
98 100
100 64.9 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 3.730 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. 0.000 min
Lab File: VN076279.D
Acq: 17 Jan 2023 14:48

Tgt Ion: 43 Resp: 14568
Ion Ratio Lower Upper
43 100
58 26.7 35.1 52.7#

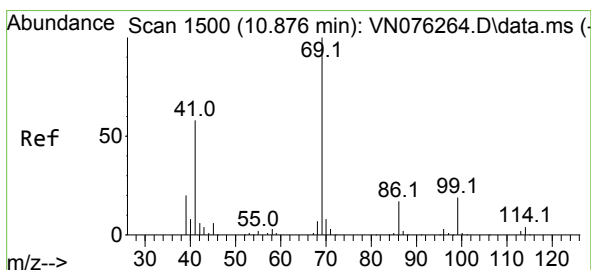
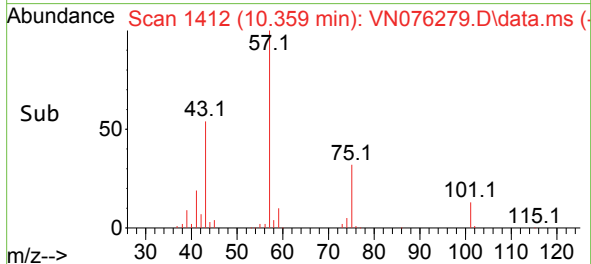
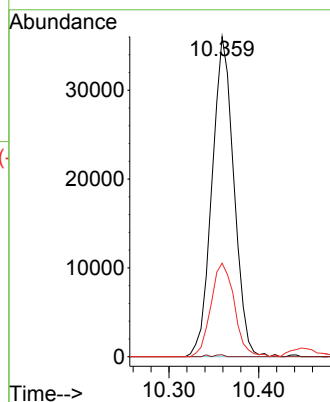
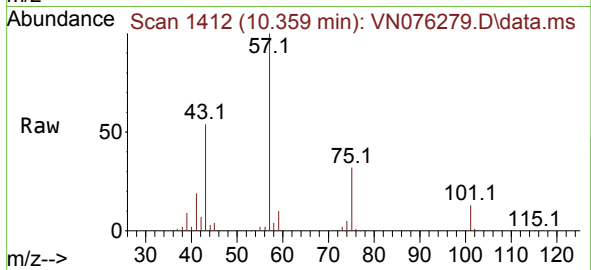




#54
cis-1,3-Dichloropropene
Concen: 10.414 ug/l
RT: 10.359 min Scan# 1412
Delta R.T. 0.047 min
Lab File: VN076279.D
Acq: 17 Jan 2023 14:48

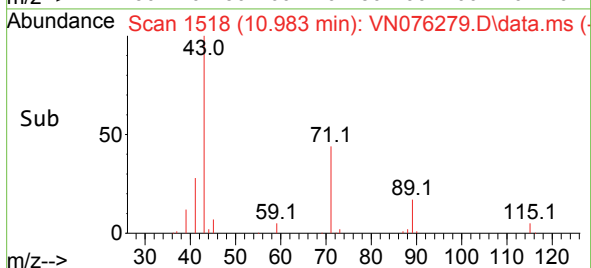
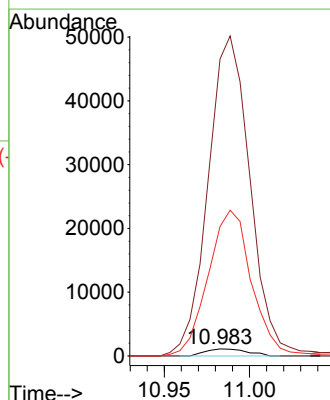
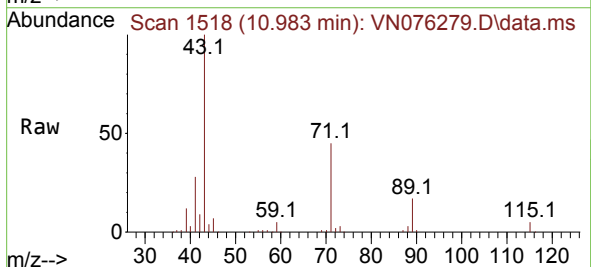
Instrument :
MSVOA_N
ClientSampleId :
TP-E

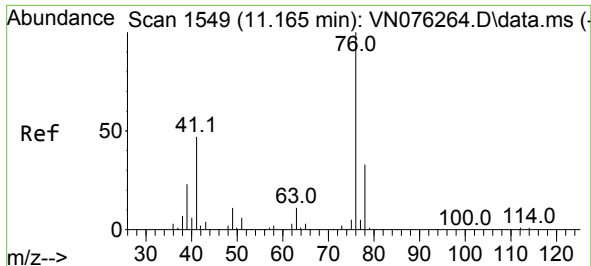
Tgt Ion: 75 Resp: 61055
Ion Ratio Lower Upper
75 100
77 0.6 26.5 39.7#
39 29.2 37.1 55.7#



#56
Ethyl methacrylate
Concen: 0.374 ug/l
RT: 10.983 min Scan# 1518
Delta R.T. 0.107 min
Lab File: VN076279.D
Acq: 17 Jan 2023 14:48

Tgt Ion: 69 Resp: 1883
Ion Ratio Lower Upper
69 100
41 4594.9 45.3 67.9#
39 2154.2 29.3 43.9#





#57

1,3-Dichloropropane

Concen: 1.027 ug/l

RT: 11.206 min Scan# 1556

Delta R.T. 0.041 min

Lab File: VN076279.D

Acq: 17 Jan 2023 14:48

Instrument :

MSVOA_N

ClientSampleId :

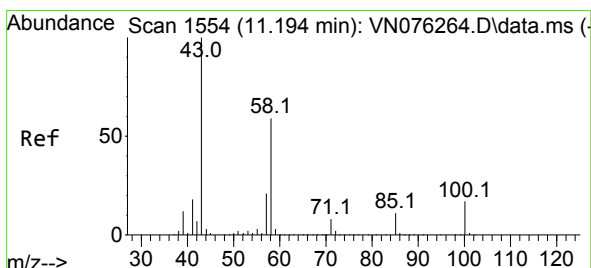
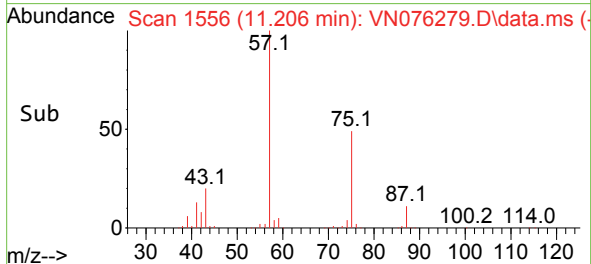
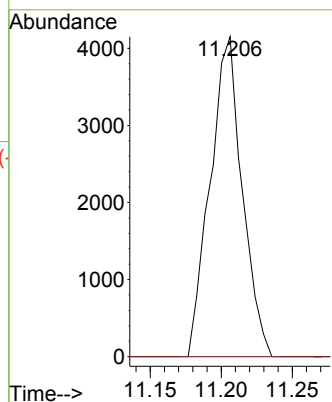
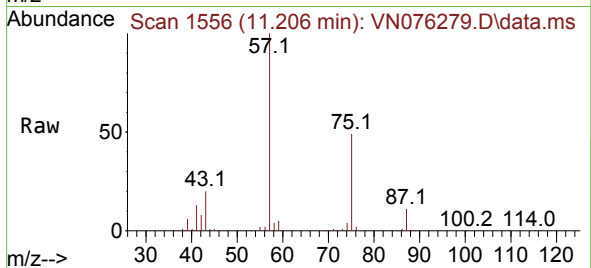
TP-E

Tgt Ion: 76 Resp: 6502

Ion Ratio Lower Upper

76 100

78 0.0 26.4 39.6#



#59

2-Hexanone

Concen: 52.045 ug/l

RT: 11.171 min Scan# 1550

Delta R.T. -0.023 min

Lab File: VN076279.D

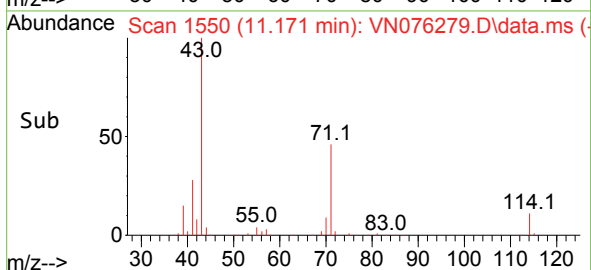
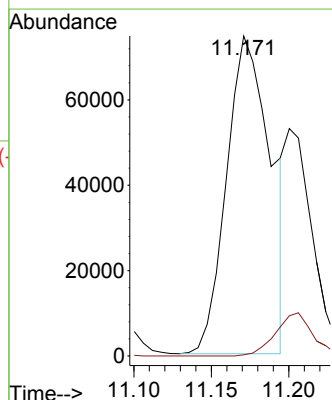
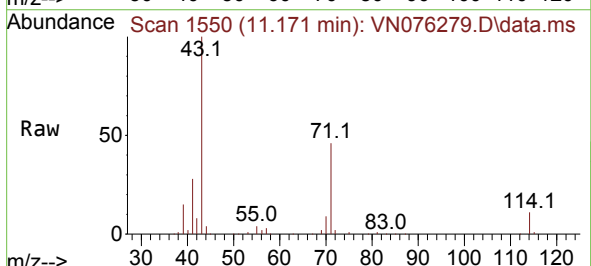
Acq: 17 Jan 2023 14:48

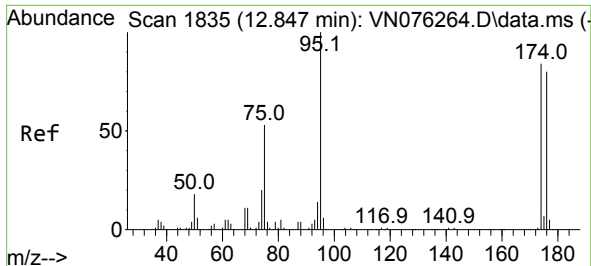
Tgt Ion: 43 Resp: 147308

Ion Ratio Lower Upper

43 100

58 0.0 30.1 90.3#

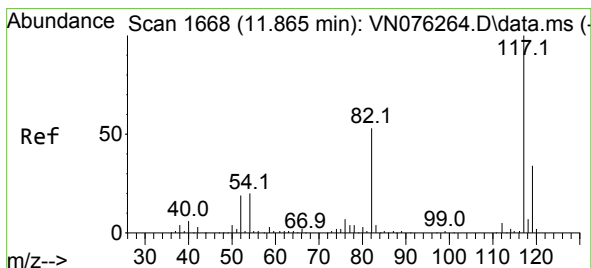
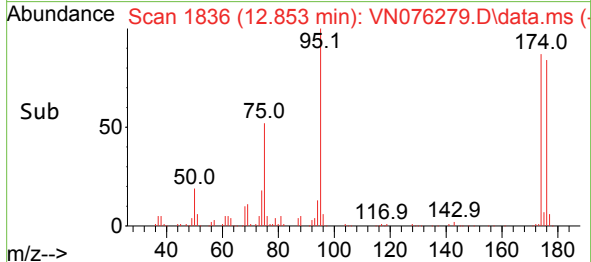
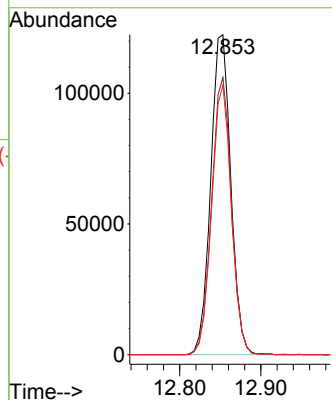
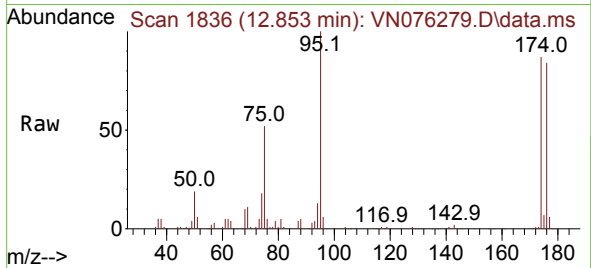




#62
4-Bromofluorobenzene
Concen: 48.556 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN076279.D
Acq: 17 Jan 2023 14:48

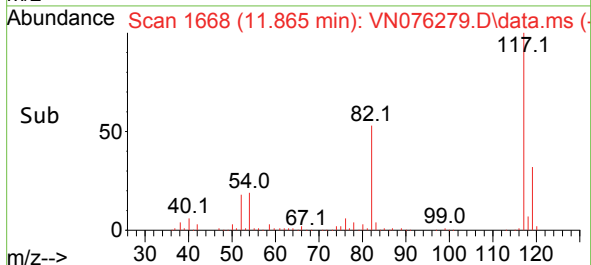
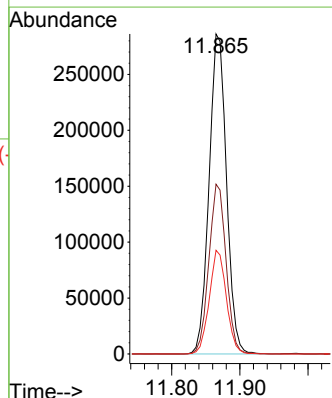
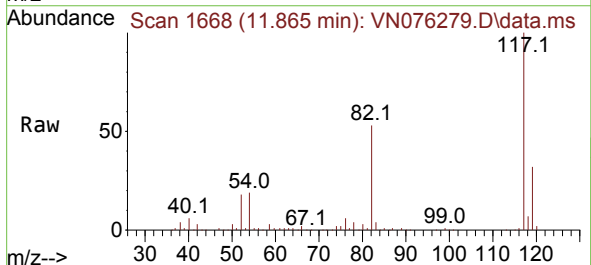
Instrument :
MSVOA_N
ClientSampleId :
TP-E

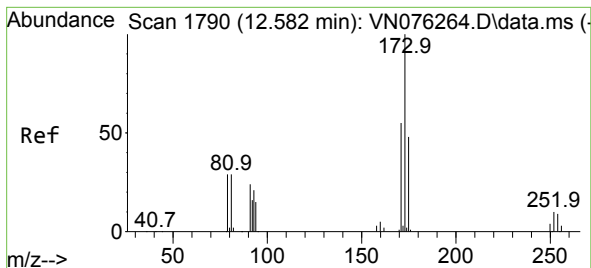
Tgt Ion: 95 Resp: 210069
Ion Ratio Lower Upper
95 100
174 85.5 0.0 174.6
176 82.4 0.0 167.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1668
Delta R.T. -0.000 min
Lab File: VN076279.D
Acq: 17 Jan 2023 14:48

Tgt Ion: 117 Resp: 508686
Ion Ratio Lower Upper
117 100
82 53.1 42.2 63.2
119 32.4 26.9 40.3





#71

Bromoform

Concen: 0.552 ug/l

RT: 12.847 min Scan# 1835

Delta R.T. 0.265 min

Lab File: VN076279.D

Acq: 17 Jan 2023 14:48

Instrument :

MSVOA_N

ClientSampleId :

TP-E

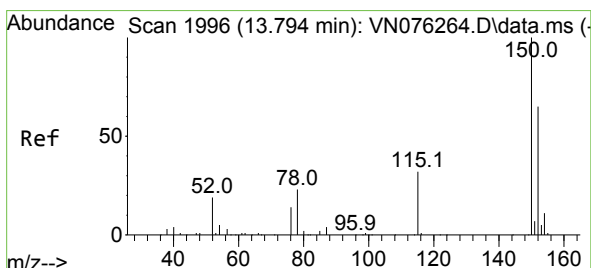
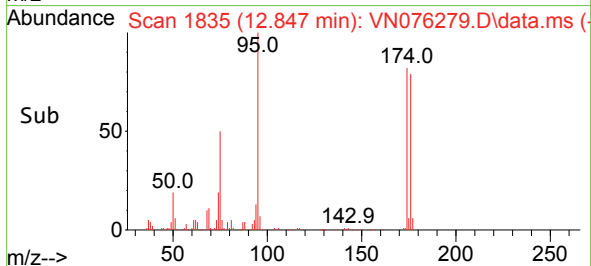
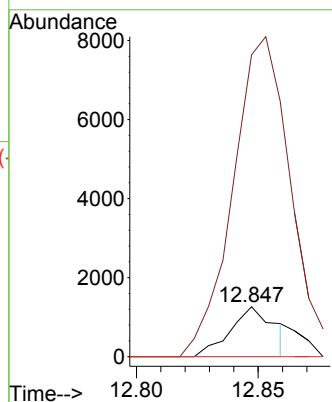
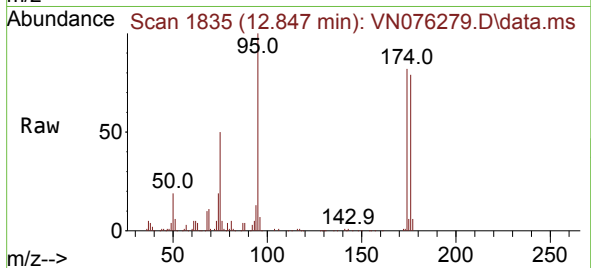
Tgt Ion:173 Resp: 1594

Ion Ratio Lower Upper

173 100

175 697.4 24.1 72.4#

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: VN076279.D

Acq: 17 Jan 2023 14:48

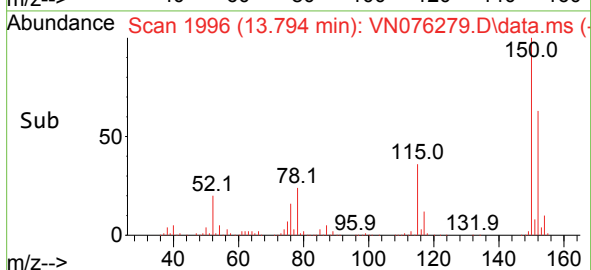
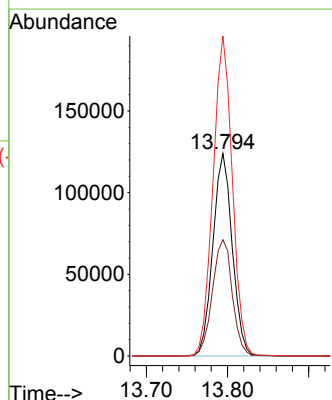
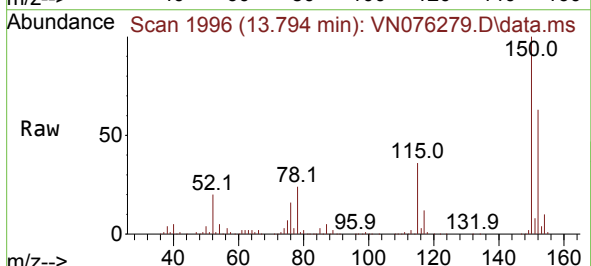
Tgt Ion:152 Resp: 205212

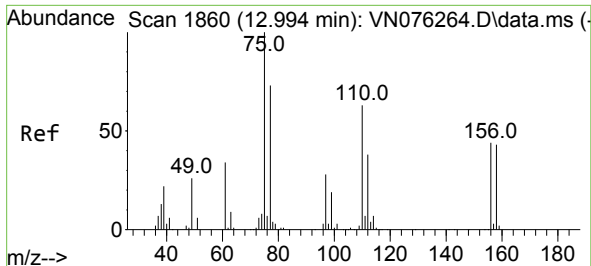
Ion Ratio Lower Upper

152 100

115 59.0 29.6 88.9

150 157.7 0.0 351.4

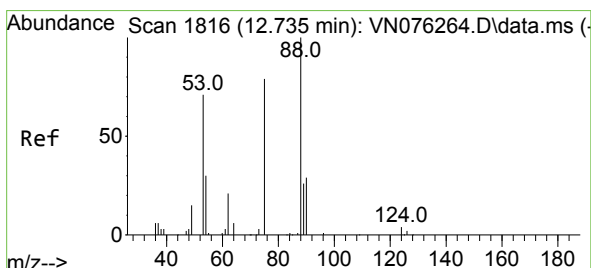
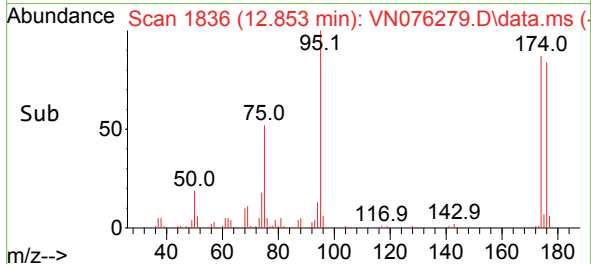
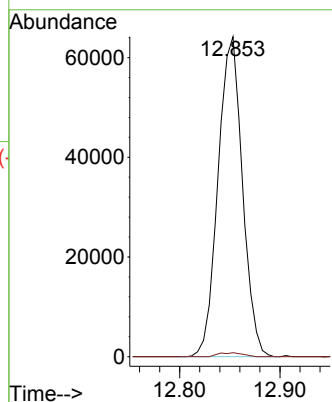
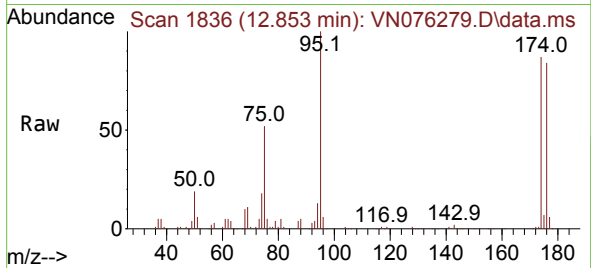




#76
1,2,3-Trichloropropane
Concen: 28.555 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN076279.D
Acq: 17 Jan 2023 14:48

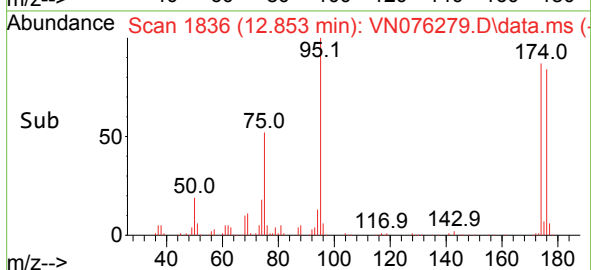
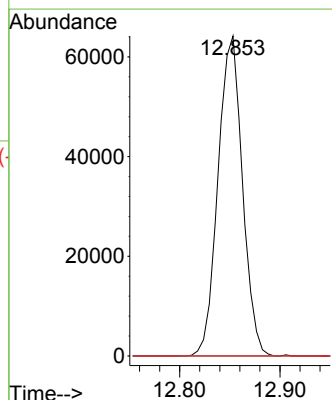
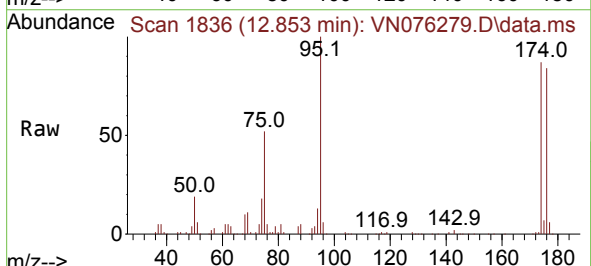
Instrument :
MSVOA_N
ClientSampleId :
TP-E

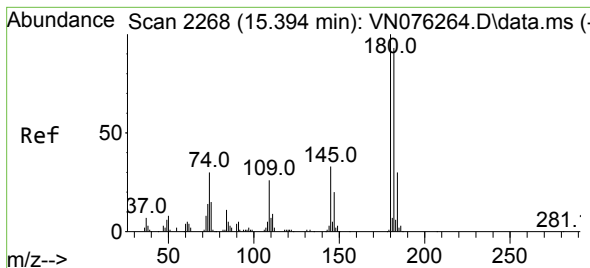
Tgt Ion: 75 Resp: 108270
Ion Ratio Lower Upper
75 100
77 1.2 75.2 225.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 87.784 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.118 min
Lab File: VN076279.D
Acq: 17 Jan 2023 14:48

Tgt Ion: 75 Resp: 108270
Ion Ratio Lower Upper
75 100
53 0.0 75.8 113.8#
89 0.0 37.0 55.6#





#93

1,2,4-Trichlorobenzene

Concen: 1.371 ug/l

RT: 15.394 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN076279.D

Acq: 17 Jan 2023 14:48

Instrument :

MSVOA_N

ClientSampleId :

TP-E

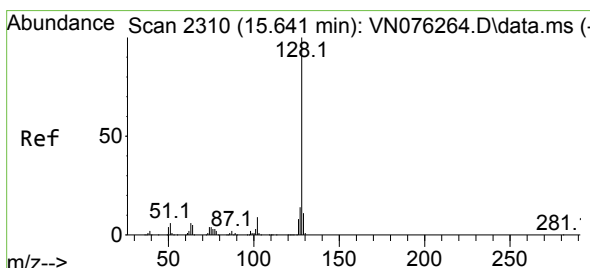
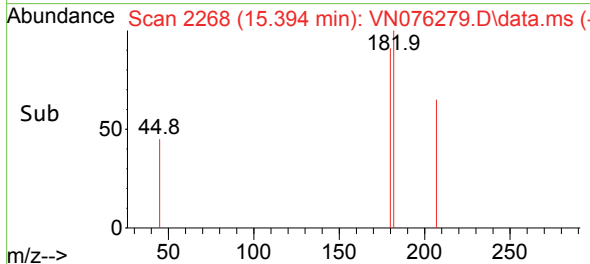
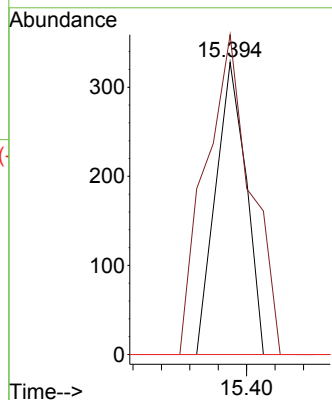
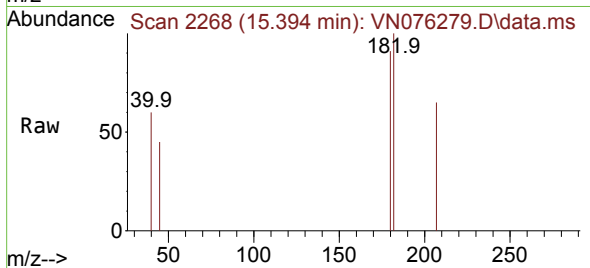
Tgt Ion:180 Resp: 243

Ion Ratio Lower Upper

180 100

182 163.8 47.0 141.2#

145 0.0 15.2 45.5#



#95

Naphthalene

Concen: 2.006 ug/l

RT: 15.653 min Scan# 2312

Delta R.T. 0.012 min

Lab File: VN076279.D

Acq: 17 Jan 2023 14:48

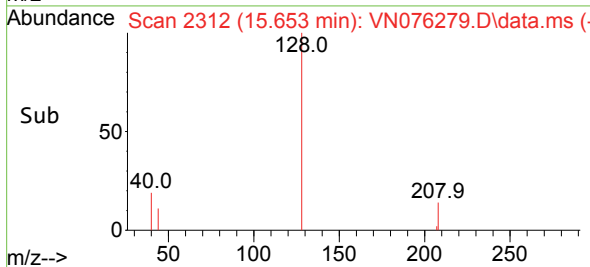
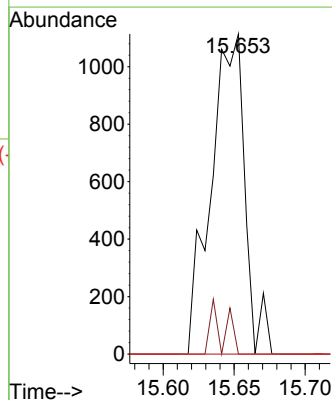
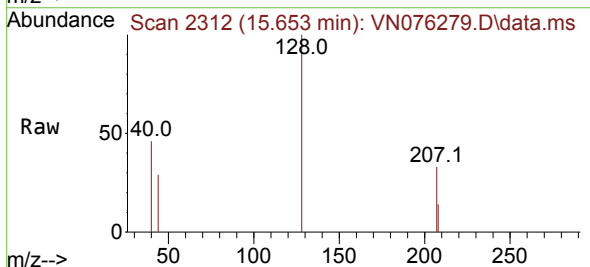
Tgt Ion:128 Resp: 1853

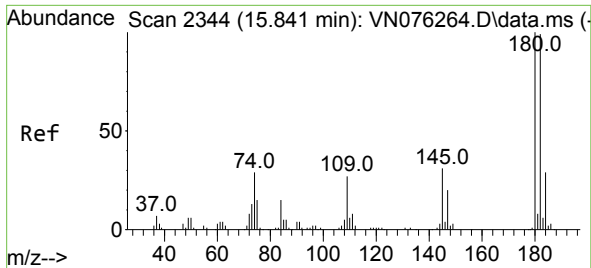
Ion Ratio Lower Upper

128 100

127 6.7 10.3 15.5#

129 0.0 8.6 13.0#





#96

1,2,3-Trichlorobenzene

Concen: 1.233 ug/l

RT: 15.841 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN076279.D

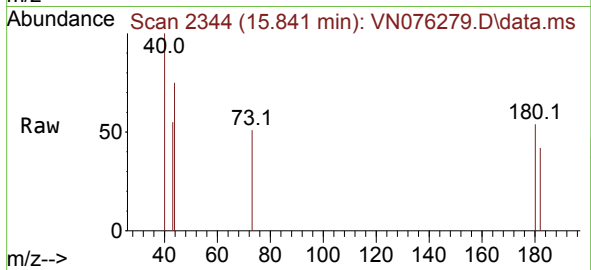
Acq: 17 Jan 2023 14:48

Instrument :

MSVOA_N

ClientSampleId :

TP-E



Tgt Ion:180 Resp: 278

Ion Ratio Lower Upper

180 100

182 130.6 47.5 142.5

145 0.0 15.9 47.6#

