

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031423\
 Data File : VN076991.D
 Acq On : 14 Mar 2023 18:46
 Operator : JC\MD
 Sample : 01890-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IDW-SO-DRUM279-031023

Quant Time: Mar 15 04:28:38 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031023W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 10 13:47:39 2023
 Response via : Initial Calibration

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

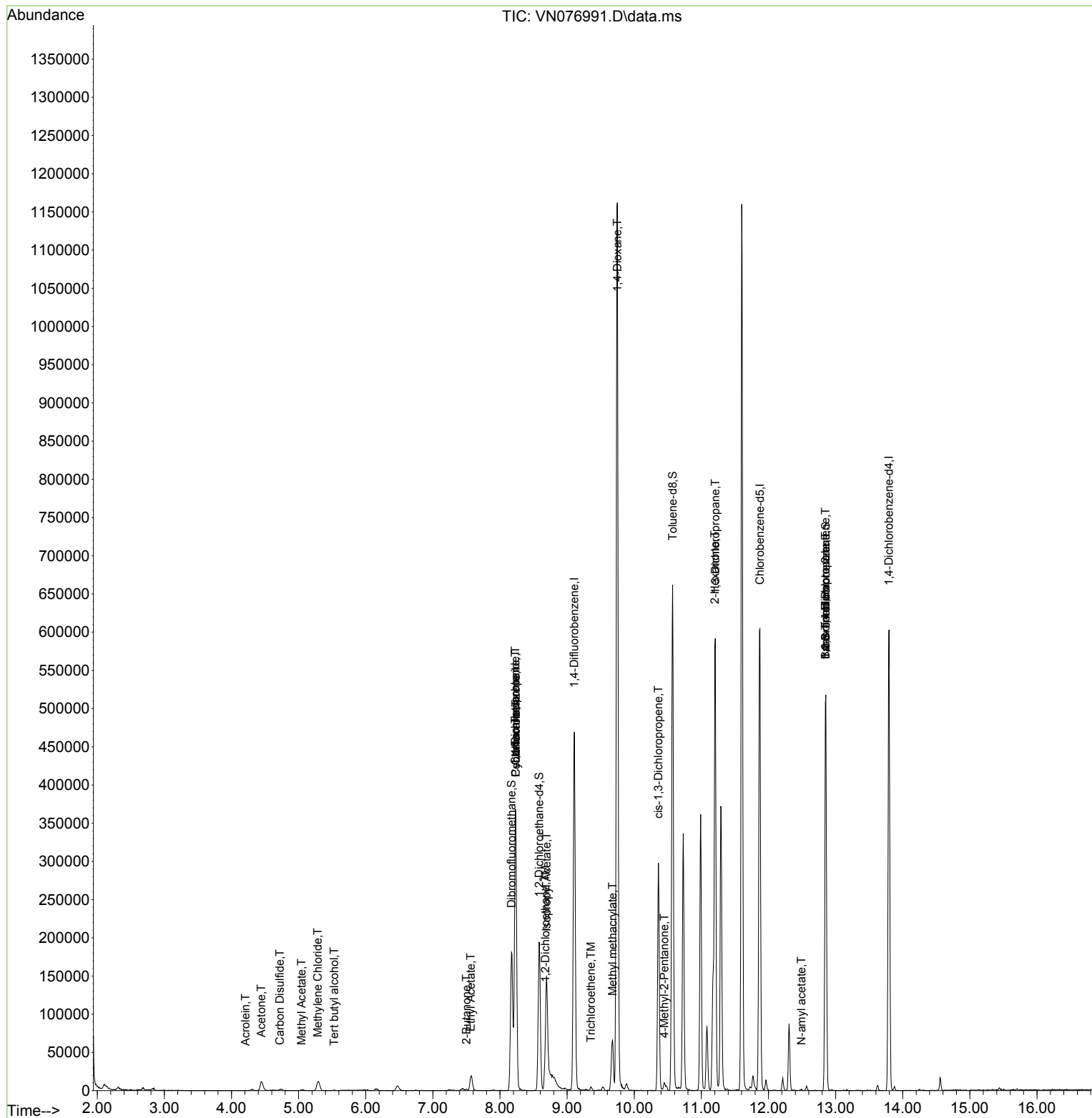
Internal Standards						
1) Pentafluorobenzene	8.236	168	253762	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	378432	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	340876	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	155102	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	190822	50.391	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.780%			
35) Dibromofluoromethane	8.172	113	124247	49.263	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.520%			
50) Toluene-d8	10.571	98	445911	47.972	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.940%			
62) 4-Bromofluorobenzene	12.854	95	172272	50.670	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 101.340%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.531	59	783	1.486	ug/l #	72
13) Acrolein	4.207	56	201	0.424	ug/l #	52
16) Acetone	4.442	43	23790	18.130	ug/l	95
17) Carbon Disulfide	4.719	76	1571	0.202	ug/l #	73
18) Methyl Acetate	5.042	43	2313	0.478	ug/l #	65
20) Methylene Chloride	5.284	84	10523	3.119	ug/l #	77
25) 2-Butanone	7.501	43	1930	1.034	ug/l	100
31) Cyclohexane	8.236	56	5874	1.081	ug/l #	16
36) 1,1-Dichloropropene	8.230	75	19948	5.114	ug/l #	53
37) Ethyl Acetate	7.566	43	29184	9.356	ug/l #	95
38) Carbon Tetrachloride	8.230	117	31195	6.833	ug/l #	17
42) 1,2-Dichloroethane	8.677	62	1319	0.294	ug/l #	71
43) Isopropyl Acetate	8.695	43	218285	39.640	ug/l #	71
44) Trichloroethene	9.354	130	1656	0.557	ug/l	84
48) Methyl methacrylate	9.677	41	4121	1.527	ug/l #	25
49) 1,4-Dioxane	9.748	88	185	3.621	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	4745	1.434	ug/l	95
54) cis-1,3-Dichloropropene	10.360	75	51640	11.253	ug/l #	71
57) 1,3-Dichloropropane	11.207	76	6427	1.324	ug/l #	42
59) 2-Hexanone	11.201	43	83025	34.422	ug/l #	43
71) Bromoform	12.848	173	653	0.303	ug/l #	1
74) N-amyl acetate	12.489	43	1295	0.283	ug/l #	33
76) 1,2,3-Trichloropropane	12.848	75	107276	28.528	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.848	75	107276	93.187	ug/l #	15

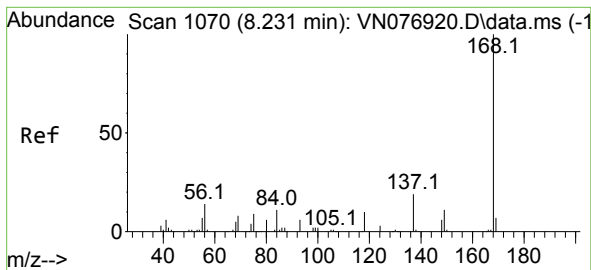
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

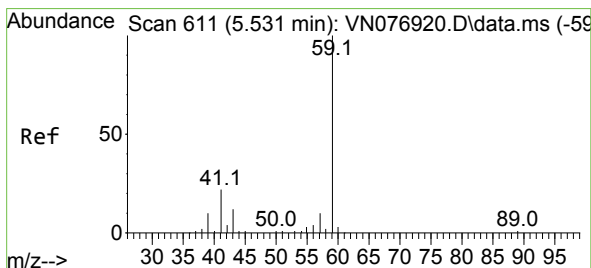
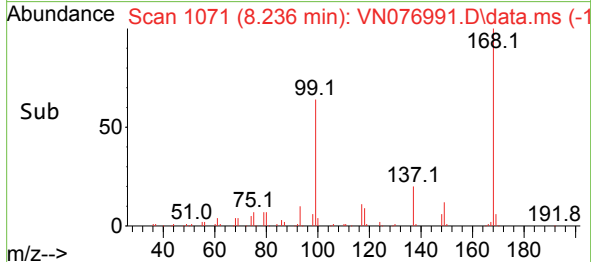
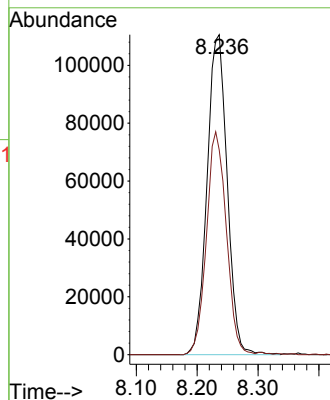
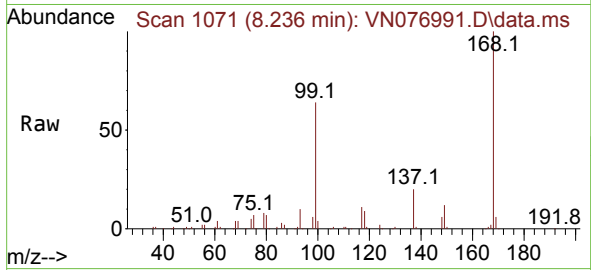




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1070
Delta R.T. 0.005 min
Lab File: VN076991.D
Acq: 14 Mar 2023 18:46

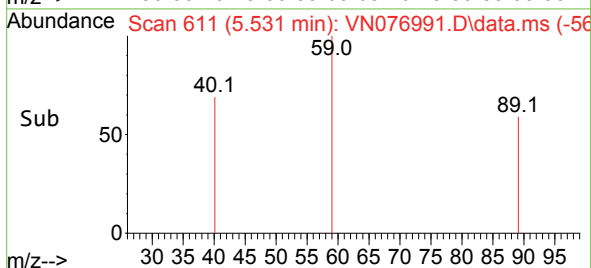
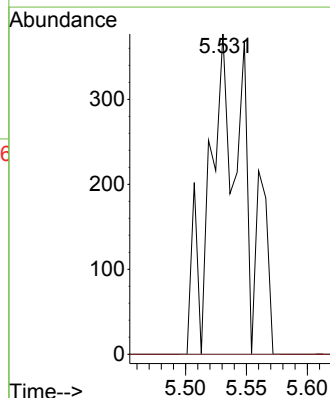
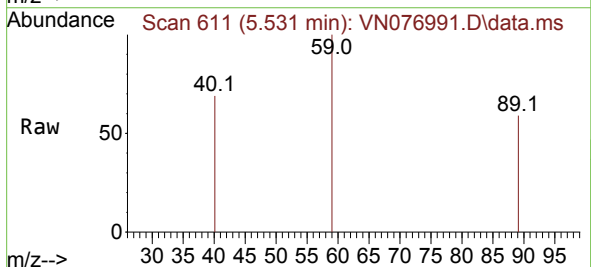
Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-DRUM279-031023

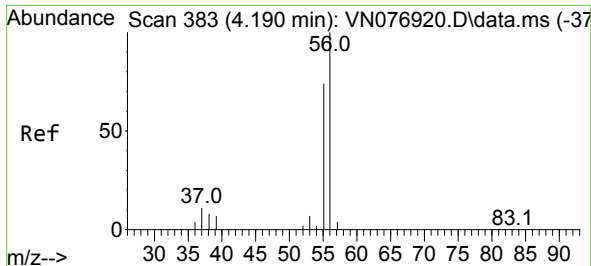
Tgt Ion:168 Resp: 253762
Ion Ratio Lower Upper
168 100
99 63.9 48.6 73.0



#11
Tert butyl alcohol
Concen: 1.486 ug/l
RT: 5.531 min Scan# 611
Delta R.T. -0.000 min
Lab File: VN076991.D
Acq: 14 Mar 2023 18:46

Tgt Ion: 59 Resp: 783
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#13

Acrolein

Concen: 0.424 ug/l

RT: 4.207 min Scan# 383

Delta R.T. 0.017 min

Lab File: VN076991.D

Acq: 14 Mar 2023 18:46

Instrument :

MSVOA_N

ClientSampleId :

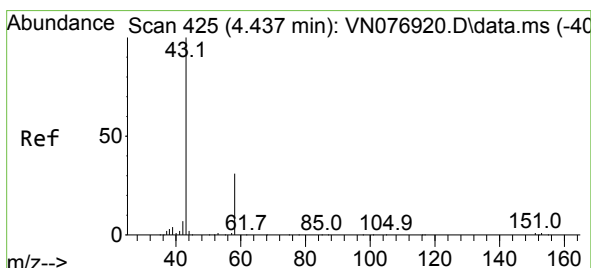
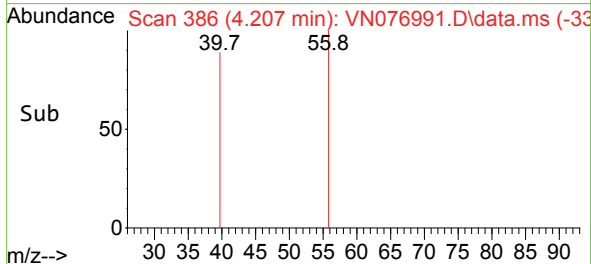
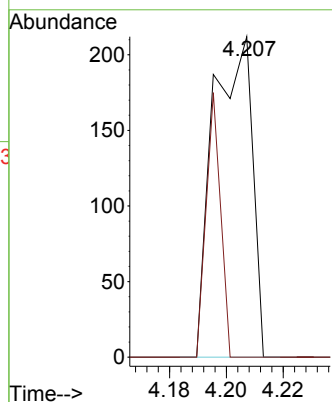
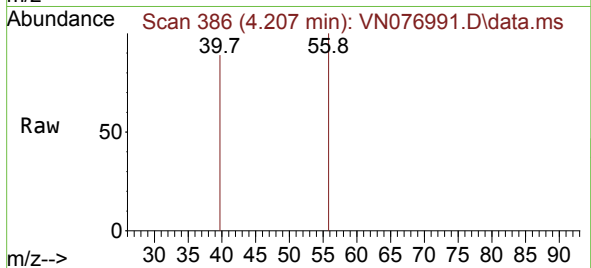
IDW-SO-DRUM279-031023

Tgt Ion: 56 Resp: 201

Ion Ratio Lower Upper

56 100

55 30.8 56.7 85.1#



#16

Acetone

Concen: 18.130 ug/l

RT: 4.442 min Scan# 426

Delta R.T. 0.005 min

Lab File: VN076991.D

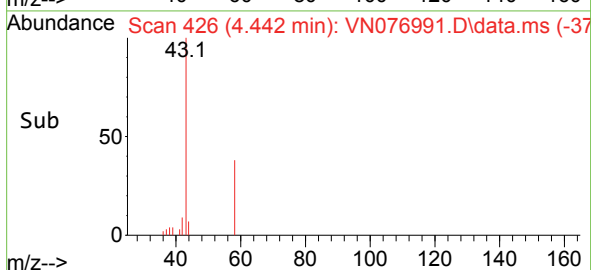
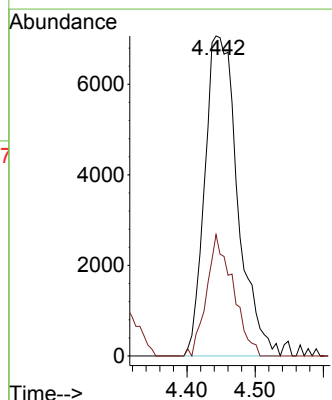
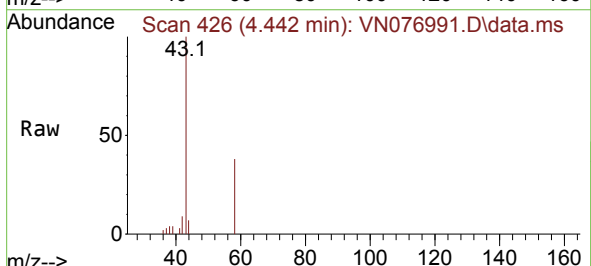
Acq: 14 Mar 2023 18:46

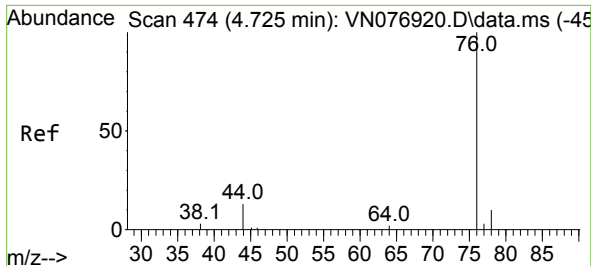
Tgt Ion: 43 Resp: 23790

Ion Ratio Lower Upper

43 100

58 37.9 28.2 42.2

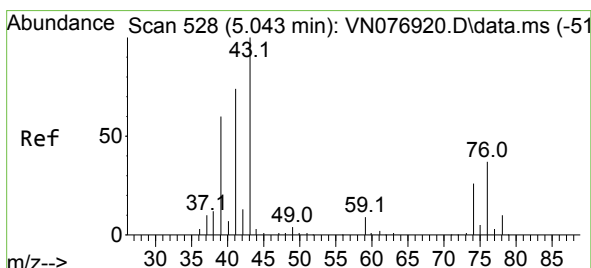
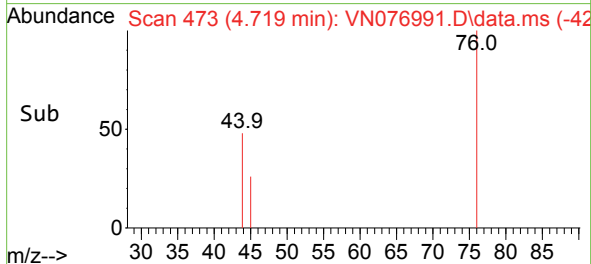
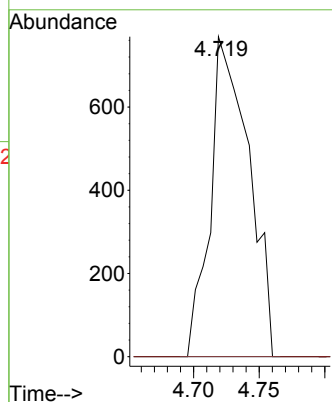
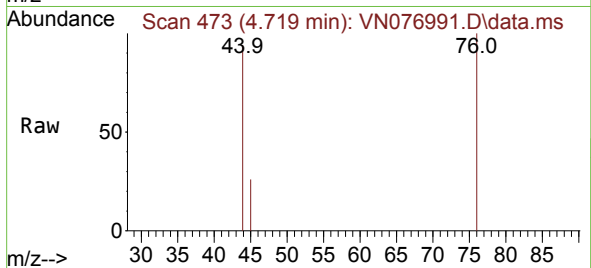




#17
Carbon Disulfide
Concen: 0.202 ug/l
RT: 4.719 min Scan# 473
Delta R.T. -0.006 min
Lab File: VN076991.D
Acq: 14 Mar 2023 18:46

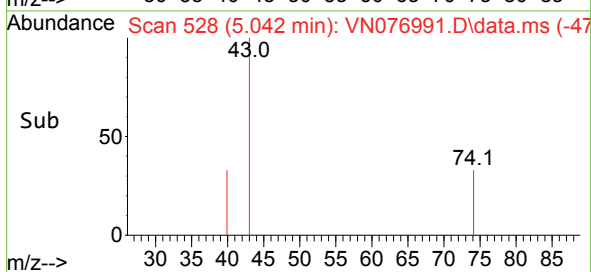
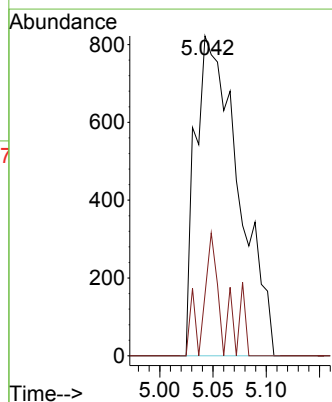
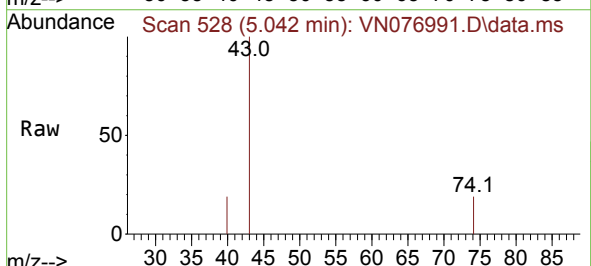
Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-DRUM279-031023

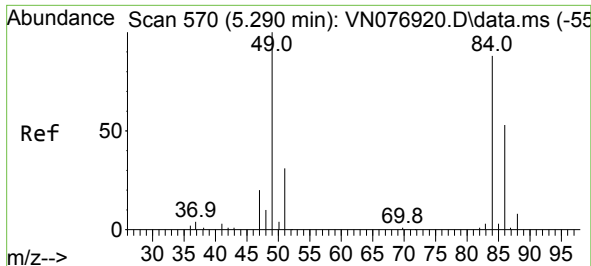
Tgt Ion: 76 Resp: 1571
Ion Ratio Lower Upper
76 100
78 0.0 7.8 11.8#



#18
Methyl Acetate
Concen: 0.478 ug/l
RT: 5.042 min Scan# 528
Delta R.T. -0.001 min
Lab File: VN076991.D
Acq: 14 Mar 2023 18:46

Tgt Ion: 43 Resp: 2313
Ion Ratio Lower Upper
43 100
74 12.7 25.9 38.9#

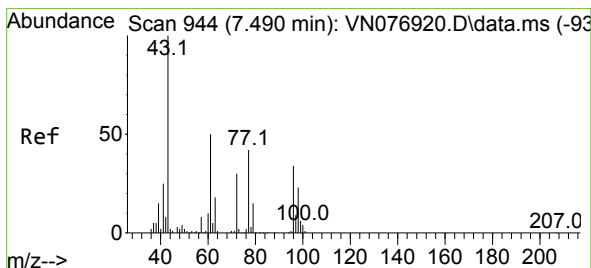
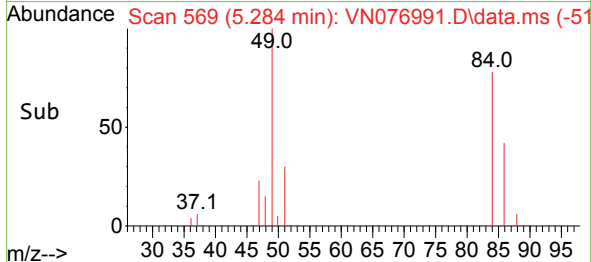
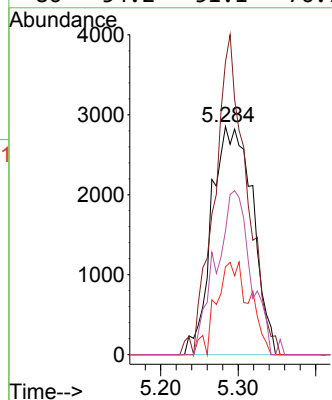
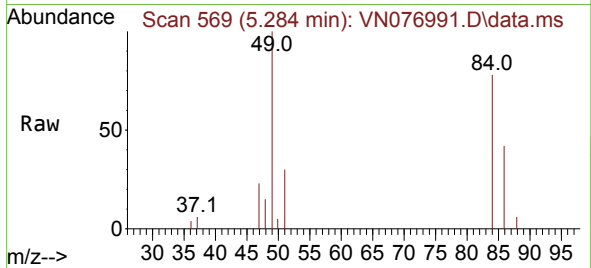




#20
Methylene Chloride
Concen: 3.119 ug/l
RT: 5.284 min Scan# 511
Delta R.T. -0.006 min
Lab File: VN076991.D
Acq: 14 Mar 2023 18:46

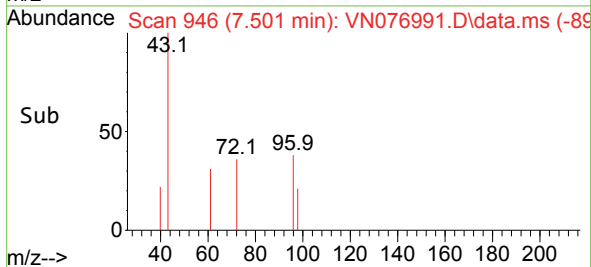
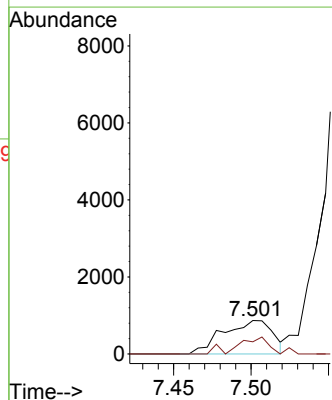
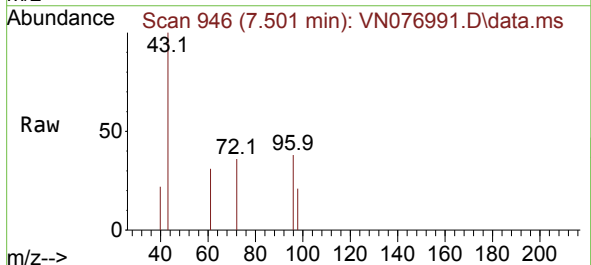
Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-DRUM279-031023

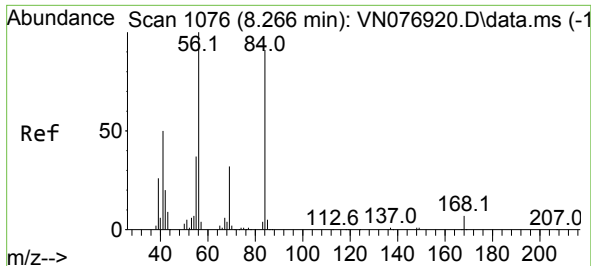
Tgt Ion: 84	Resp: 10523
Ion Ratio	Lower Upper
84	100
49	128.3 76.6 114.8#
51	38.5 25.4 38.2#
86	54.2 51.1 76.7



#25
2-Butanone
Concen: 1.034 ug/l
RT: 7.501 min Scan# 946
Delta R.T. 0.011 min
Lab File: VN076991.D
Acq: 14 Mar 2023 18:46

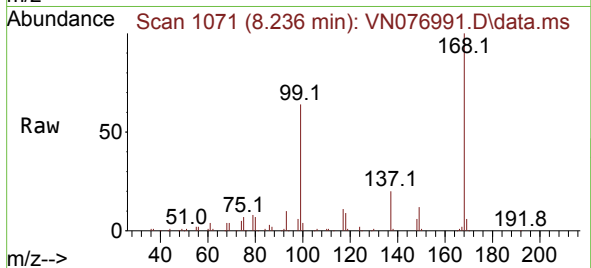
Tgt Ion: 43	Resp: 1930
Ion Ratio	Lower Upper
43	100
72	36.2 28.8 43.2



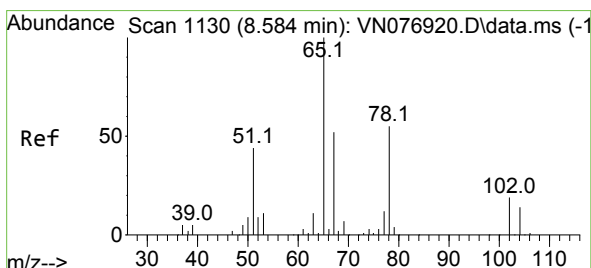
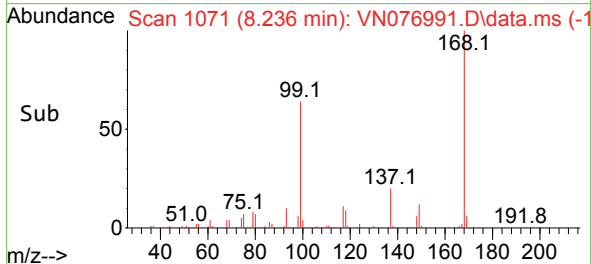
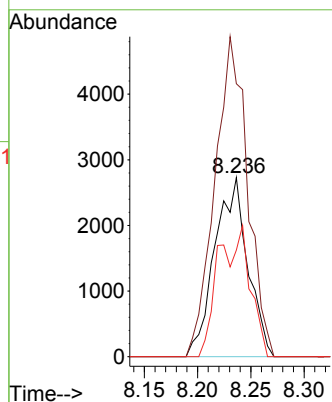


#31
Cyclohexane
Concen: 1.081 ug/l
RT: 8.236 min Scan# 1076
Delta R.T. -0.030 min
Lab File: VN076991.D
Acq: 14 Mar 2023 18:46

Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-DRUM279-031023

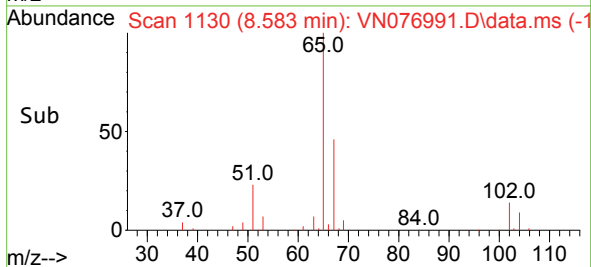
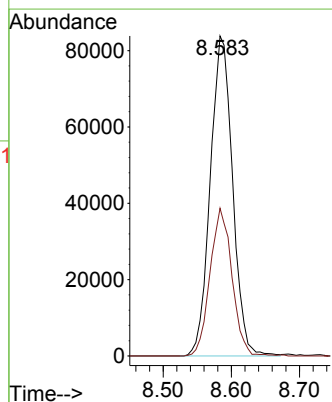
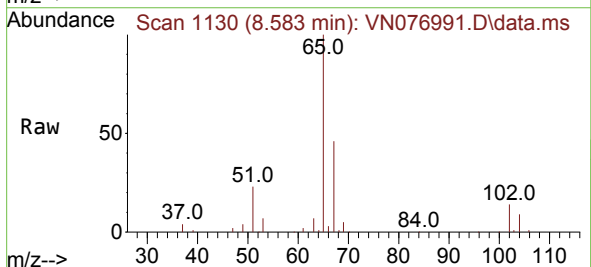


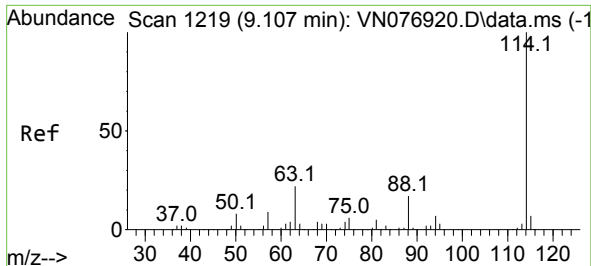
Tgt Ion: 56 Resp: 5874
Ion Ratio Lower Upper
56 100
69 152.4 27.0 40.6#
84 59.5 82.9 124.3#



#33
1,2-Dichloroethane-d4
Concen: 50.391 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. -0.001 min
Lab File: VN076991.D
Acq: 14 Mar 2023 18:46

Tgt Ion: 65 Resp: 190822
Ion Ratio Lower Upper
65 100
67 45.5 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN076991.D

Acq: 14 Mar 2023 18:46

Instrument :

MSVOA_N

ClientSampleId :

IDW-SO-DRUM279-031023

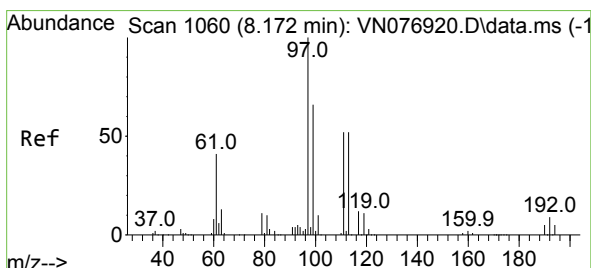
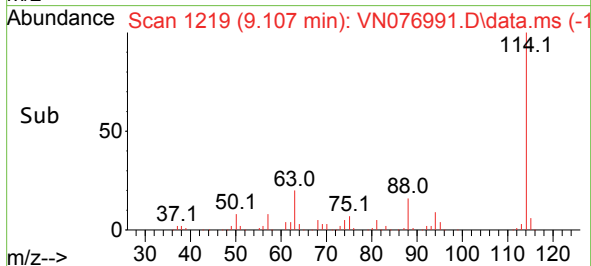
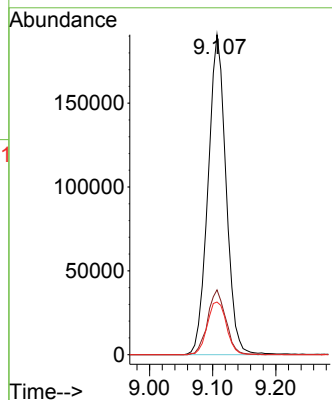
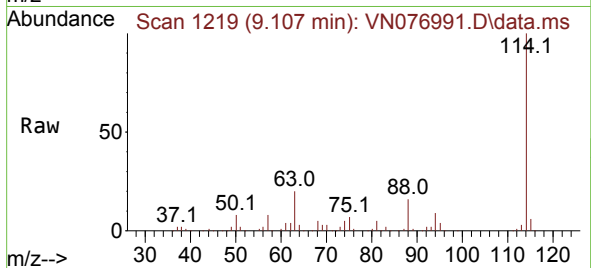
Tgt Ion:114 Resp: 378432

Ion Ratio Lower Upper

114 100

63 20.3 0.0 36.6

88 16.5 0.0 28.6



#35

Dibromofluoromethane

Concen: 49.263 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN076991.D

Acq: 14 Mar 2023 18:46

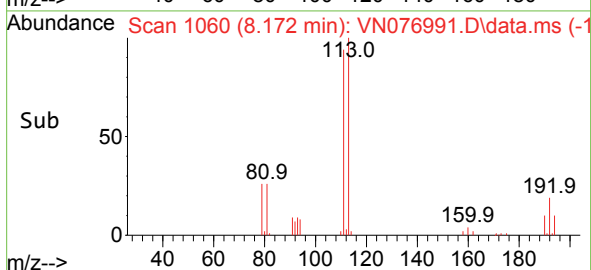
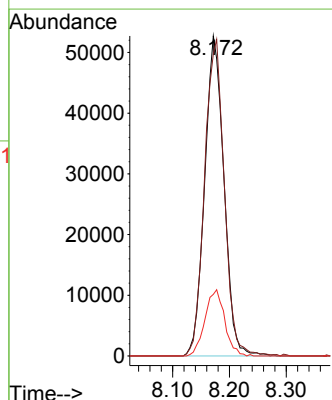
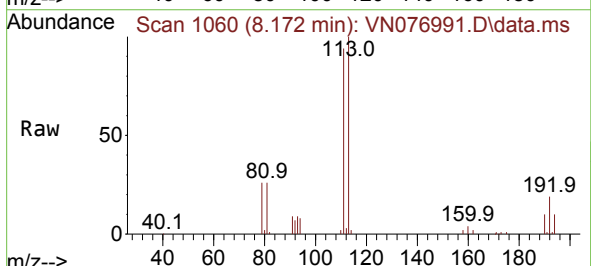
Tgt Ion:113 Resp: 124247

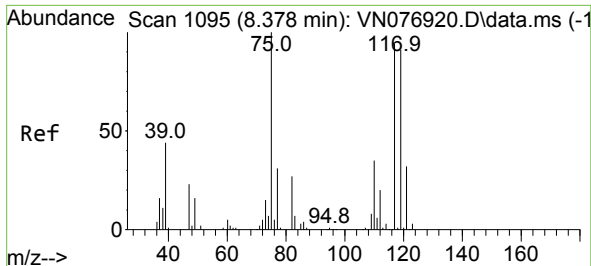
Ion Ratio Lower Upper

113 100

111 101.1 81.8 122.8

192 21.2 13.9 20.9#

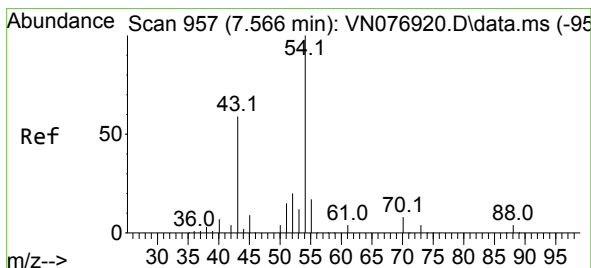
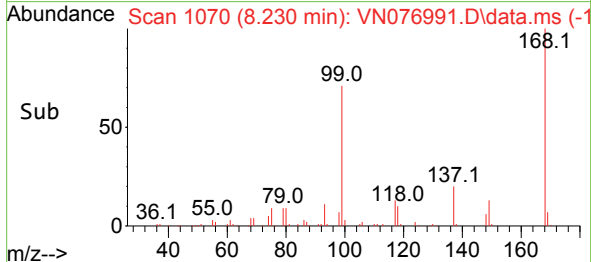
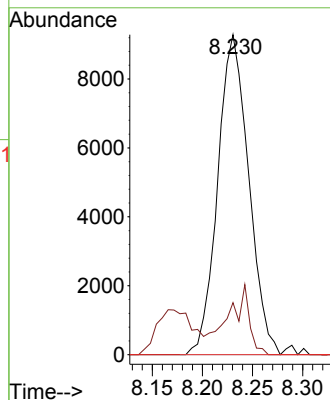
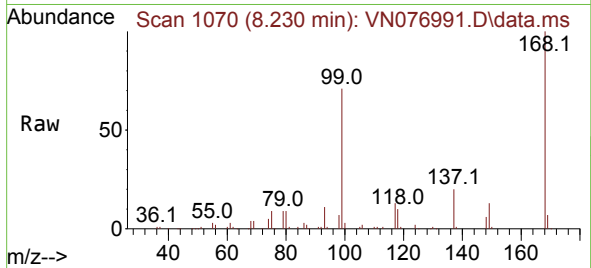




#36
1,1-Dichloropropene
Concen: 5.114 ug/l
RT: 8.230 min Scan# 1095
Delta R.T. -0.148 min
Lab File: VN076991.D
Acq: 14 Mar 2023 18:46

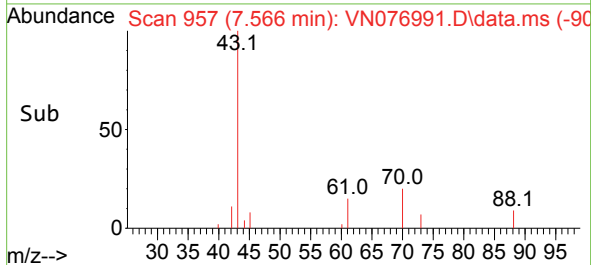
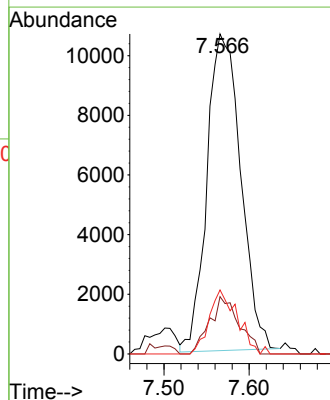
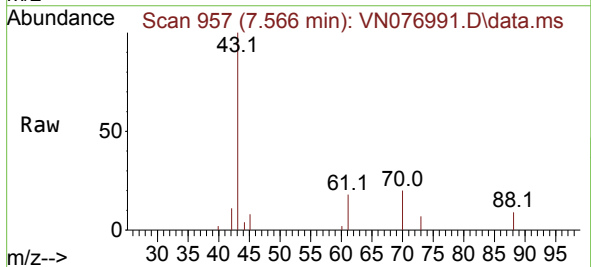
Instrument :
MSVOA_N
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IDW-SO-DRUM279-031023

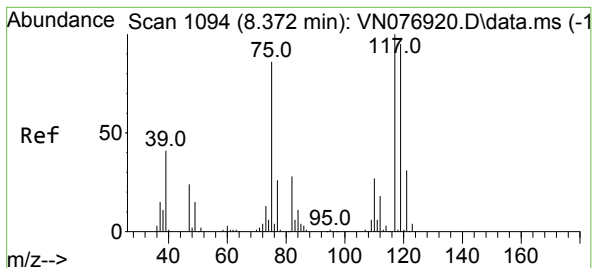
Tgt Ion: 75 Resp: 19948
Ion Ratio Lower Upper
75 100
110 14.5 18.9 56.9#
77 0.0 24.9 37.3#



#37
Ethyl Acetate
Concen: 9.356 ug/l
RT: 7.566 min Scan# 957
Delta R.T. -0.000 min
Lab File: VN076991.D
Acq: 14 Mar 2023 18:46

Tgt Ion: 43 Resp: 29184
Ion Ratio Lower Upper
43 100
61 15.8 13.5 20.3
70 17.0 11.0 16.6#





#38

Carbon Tetrachloride

Concen: 6.833 ug/l

RT: 8.230 min Scan# 1094

Delta R.T. -0.142 min

Lab File: VN076991.D

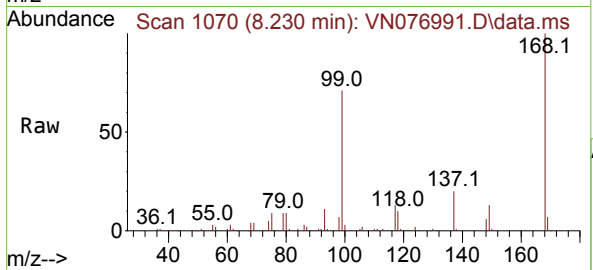
Acq: 14 Mar 2023 18:46

Instrument :

MSVOA_N

ClientSampleId :

IDW-SO-DRUM279-031023



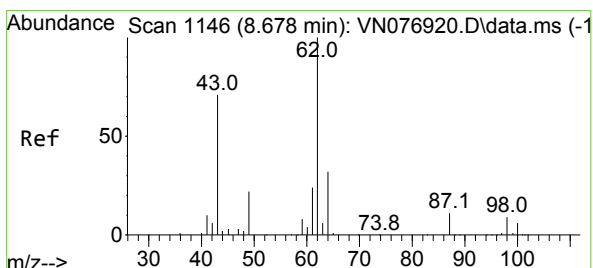
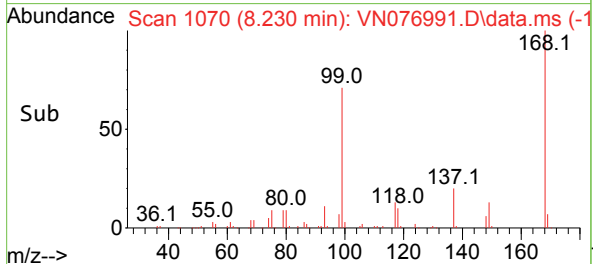
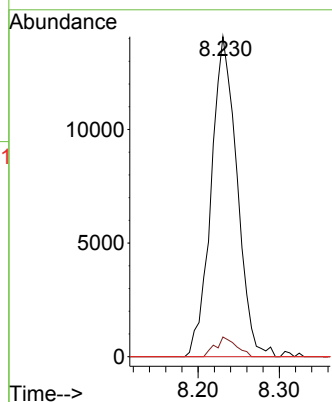
Tgt Ion:117 Resp: 31195

Ion Ratio Lower Upper

117 100

119 6.1 76.9 115.3#

121 0.0 23.2 34.8#



#42

1,2-Dichloroethane

Concen: 0.294 ug/l

RT: 8.677 min Scan# 1146

Delta R.T. -0.001 min

Lab File: VN076991.D

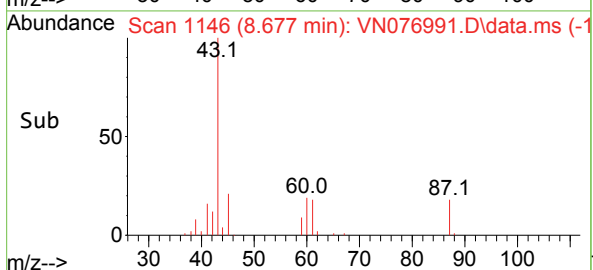
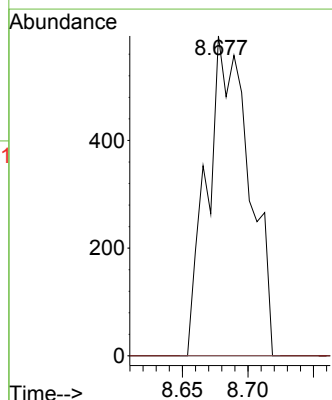
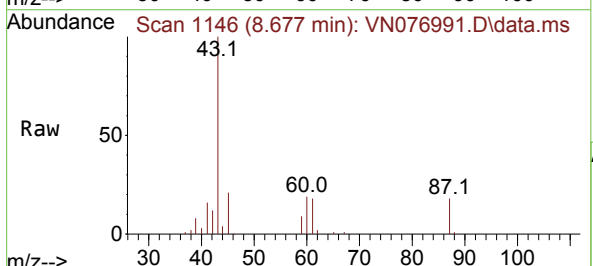
Acq: 14 Mar 2023 18:46

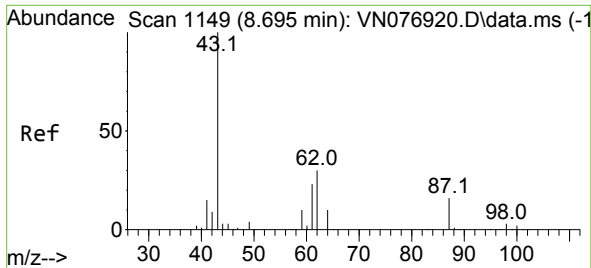
Tgt Ion: 62 Resp: 1319

Ion Ratio Lower Upper

62 100

98 0.0 0.0 21.8

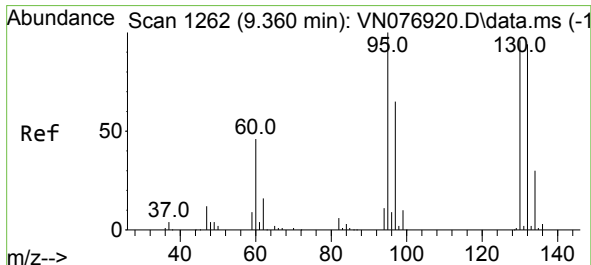
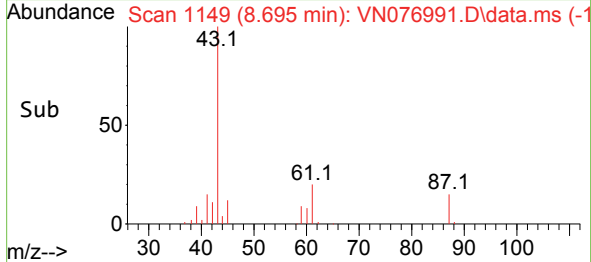
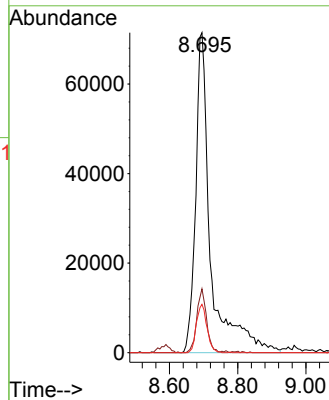
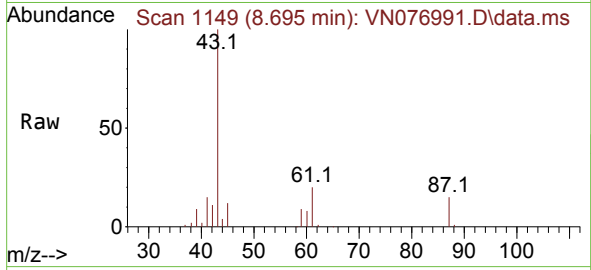




#43
Isopropyl Acetate
Concen: 39.640 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.000 min
Lab File: VN076991.D
Acq: 14 Mar 2023 18:46

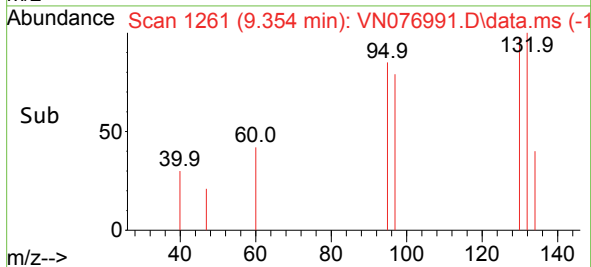
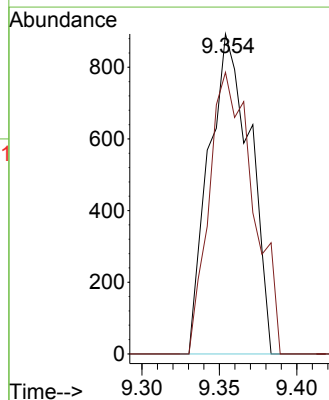
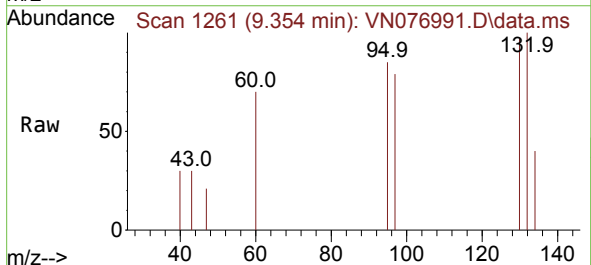
Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-DRUM279-031023

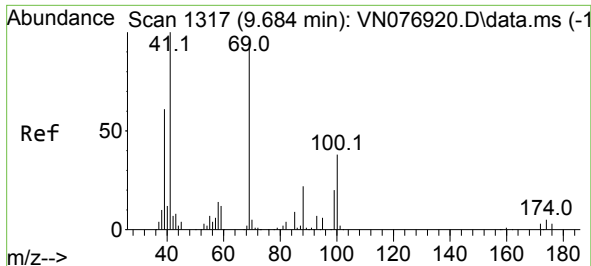
Tgt Ion: 43 Resp: 218285
Ion Ratio Lower Upper
43 100
61 13.0 26.2 39.2#
87 10.6 14.8 22.2#



#44
Trichloroethene
Concen: 0.557 ug/l
RT: 9.354 min Scan# 1261
Delta R.T. -0.006 min
Lab File: VN076991.D
Acq: 14 Mar 2023 18:46

Tgt Ion:130 Resp: 1656
Ion Ratio Lower Upper
130 100
95 88.0 0.0 208.6

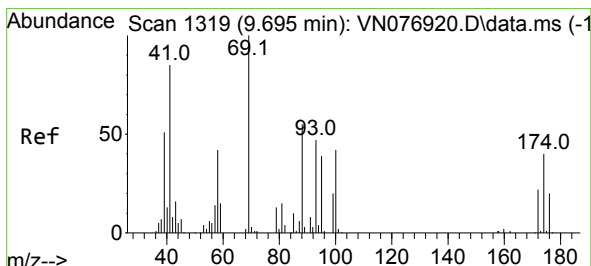
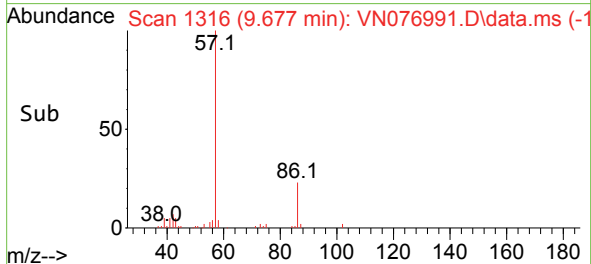
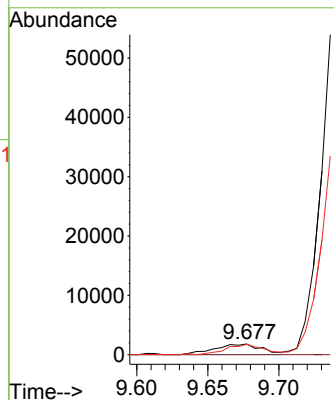
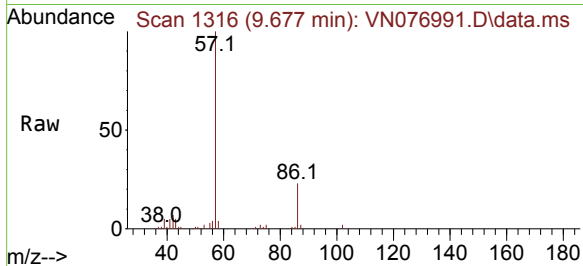




#48
Methyl methacrylate
Concen: 1.527 ug/l
RT: 9.677 min Scan# 11
Delta R.T. -0.007 min
Lab File: VN076991.D
Acq: 14 Mar 2023 18:46

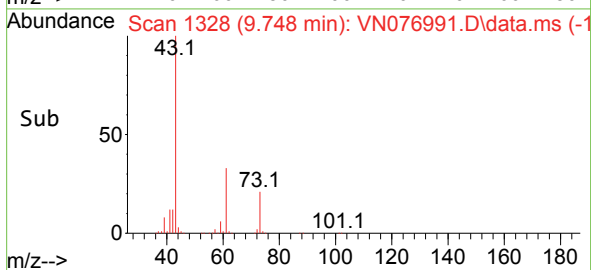
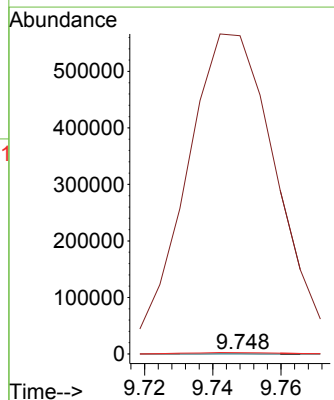
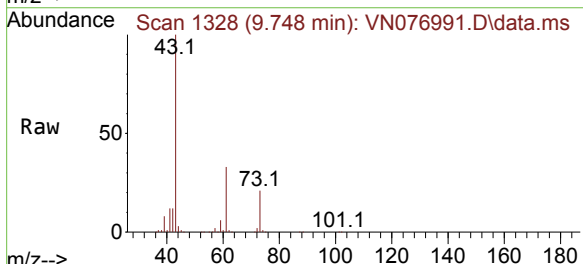
Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-DRUM279-031023

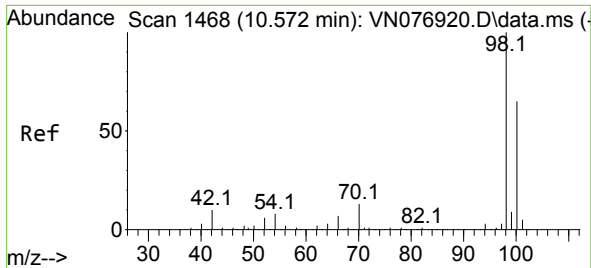
Tgt Ion: 41 Resp: 4121
Ion Ratio Lower Upper
41 100
69 0.0 92.6 139.0#
39 78.4 51.4 77.0#



#49
1,4-Dioxane
Concen: 3.621 ug/l
RT: 9.748 min Scan# 1328
Delta R.T. 0.053 min
Lab File: VN076991.D
Acq: 14 Mar 2023 18:46

Tgt Ion: 88 Resp: 185
Ion Ratio Lower Upper
88 100
43 577560.5 15.3 22.9#
58 2624.3 47.6 71.4#

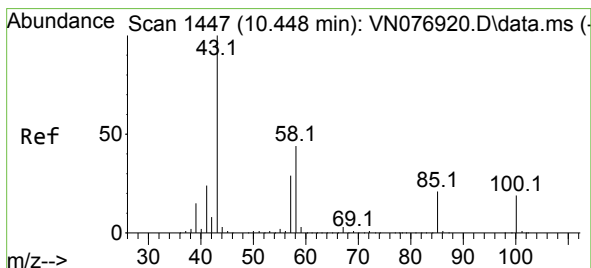
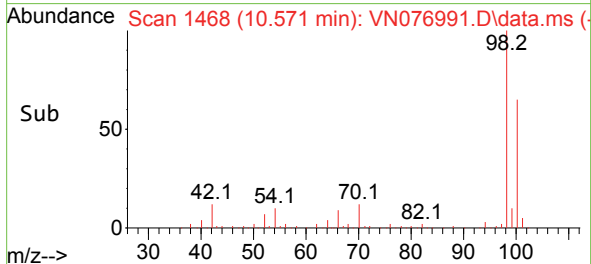
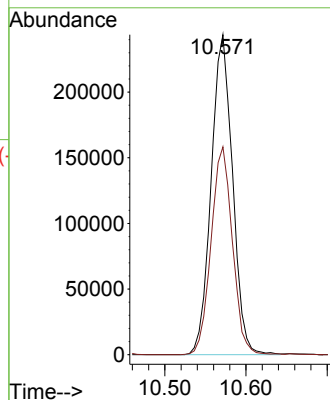
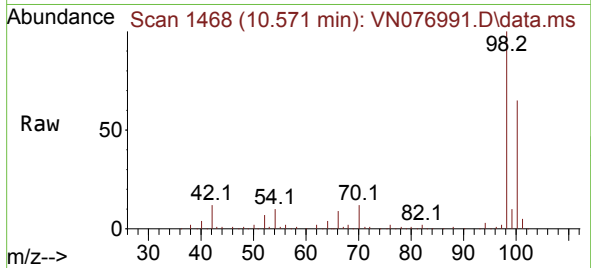




#50
Toluene-d8
Concen: 47.972 ug/l
RT: 10.571 min Scan# 1468
Delta R.T. -0.001 min
Lab File: VN076991.D
Acq: 14 Mar 2023 18:46

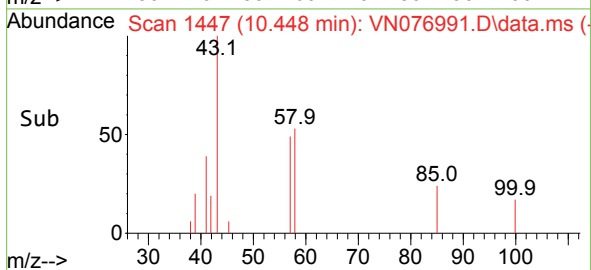
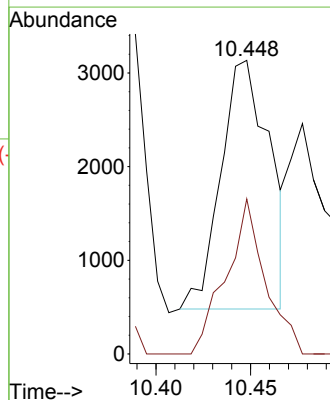
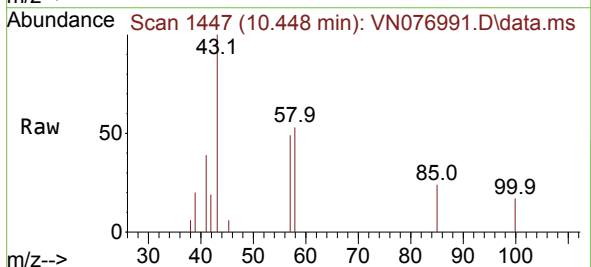
Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-DRUM279-031023

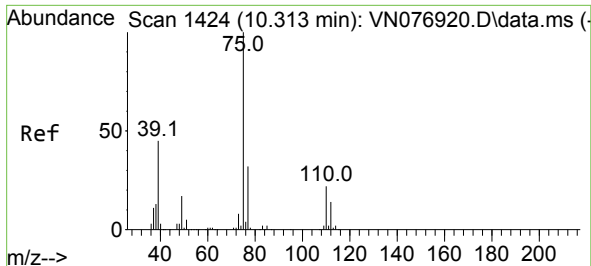
Tgt Ion: 98 Resp: 445911
Ion Ratio Lower Upper
98 100
100 64.8 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 1.434 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. -0.000 min
Lab File: VN076991.D
Acq: 14 Mar 2023 18:46

Tgt Ion: 43 Resp: 4745
Ion Ratio Lower Upper
43 100
58 50.0 37.4 56.0

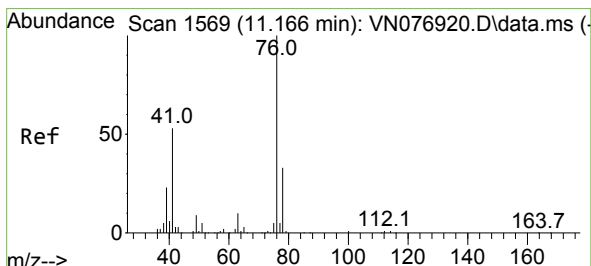
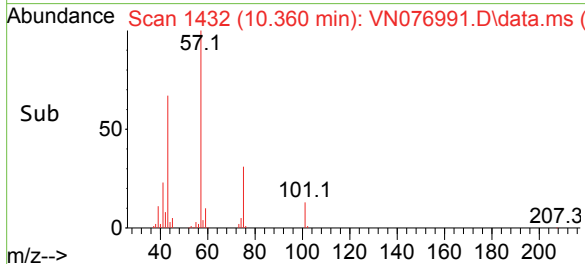
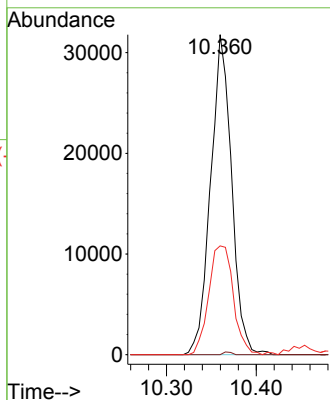
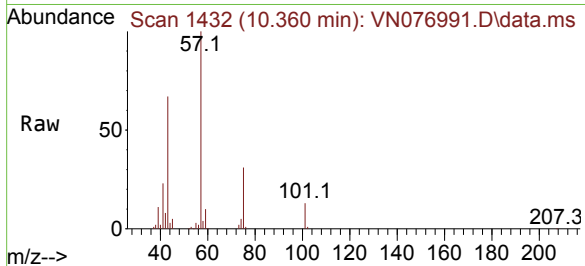




#54
 cis-1,3-Dichloropropene
 Concen: 11.253 ug/l
 RT: 10.360 min Scan# 1424
 Delta R.T. 0.047 min
 Lab File: VN076991.D
 Acq: 14 Mar 2023 18:46

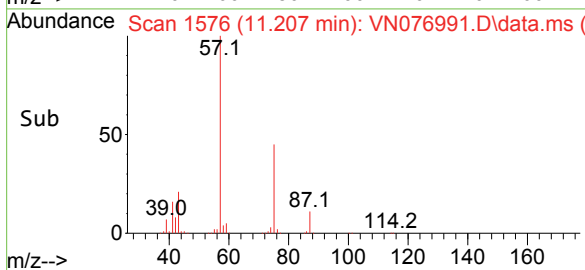
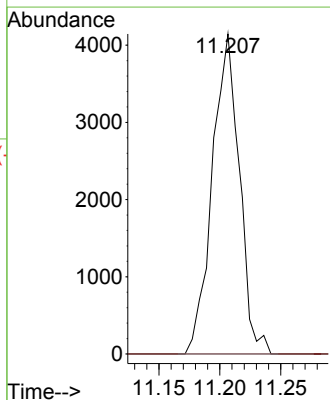
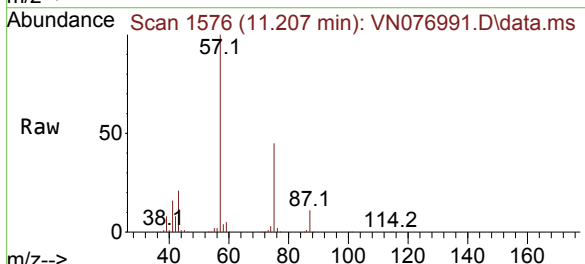
Instrument :
 MSVOA_N
 ClientSampleId :
 IDW-SO-DRUM279-031023

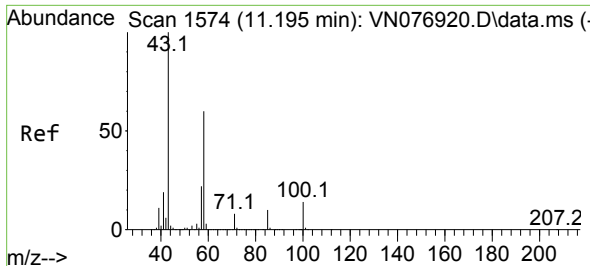
Tgt Ion: 75 Resp: 51640
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.7 38.5#
 39 34.0 29.7 44.5



#57
 1,3-Dichloropropane
 Concen: 1.324 ug/l
 RT: 11.207 min Scan# 1576
 Delta R.T. 0.041 min
 Lab File: VN076991.D
 Acq: 14 Mar 2023 18:46

Tgt Ion: 76 Resp: 6427
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

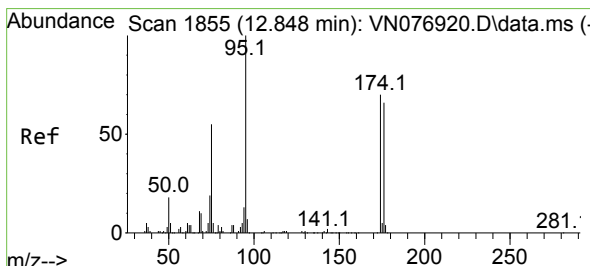
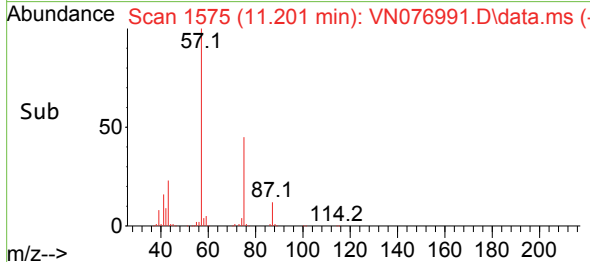
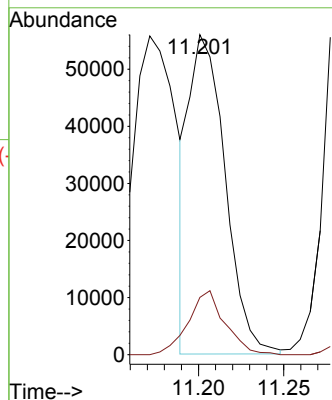
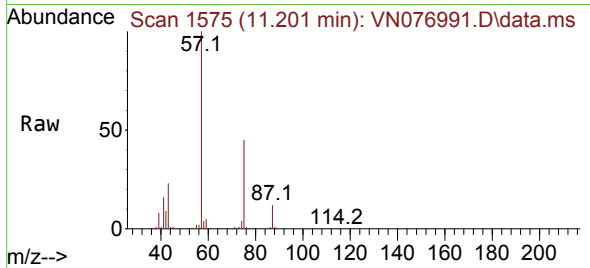




#59
2-Hexanone
Concen: 34.422 ug/l
RT: 11.201 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN076991.D
Acq: 14 Mar 2023 18:46

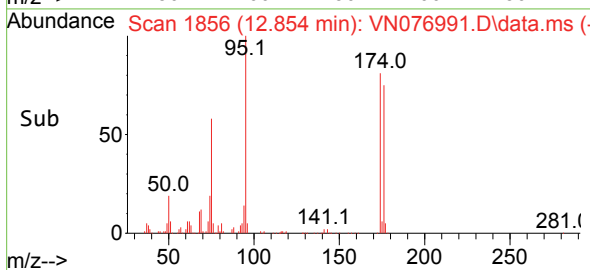
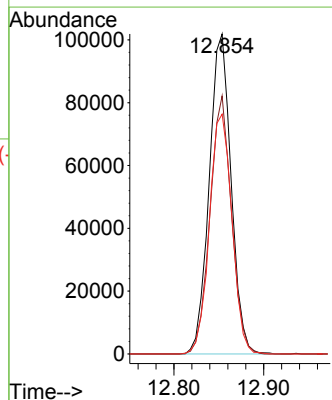
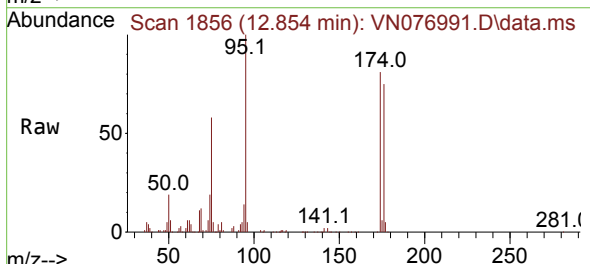
Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-DRUM279-031023

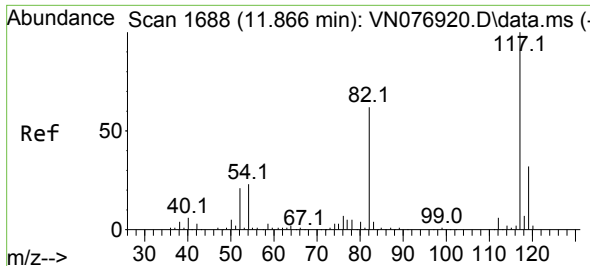
Tgt Ion: 43 Resp: 83025
Ion Ratio Lower Upper
43 100
58 20.3 32.6 98.0#



#62
4-Bromofluorobenzene
Concen: 50.670 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN076991.D
Acq: 14 Mar 2023 18:46

Tgt Ion: 95 Resp: 172272
Ion Ratio Lower Upper
95 100
174 79.3 0.0 162.4
176 77.4 0.0 157.4

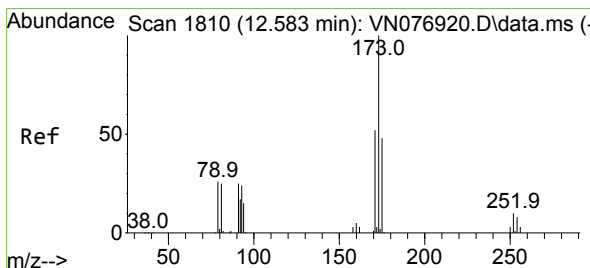
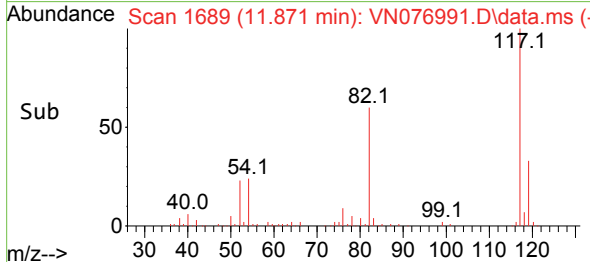
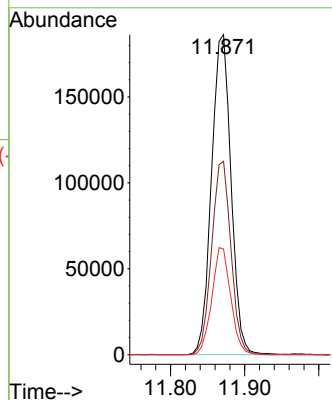
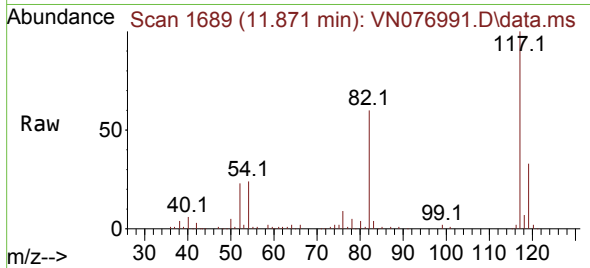




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.005 min
Lab File: VN076991.D
Acq: 14 Mar 2023 18:46

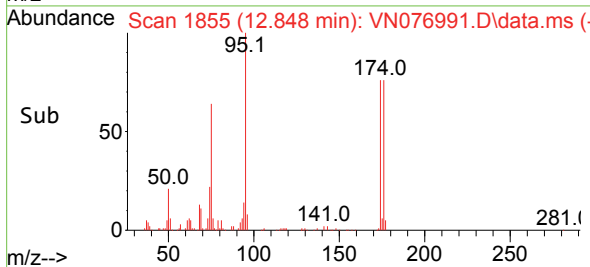
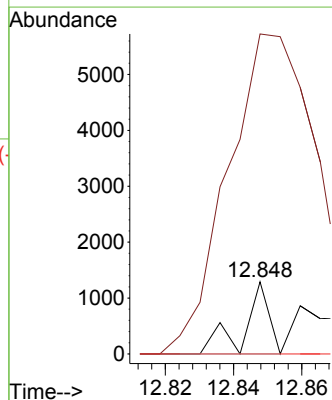
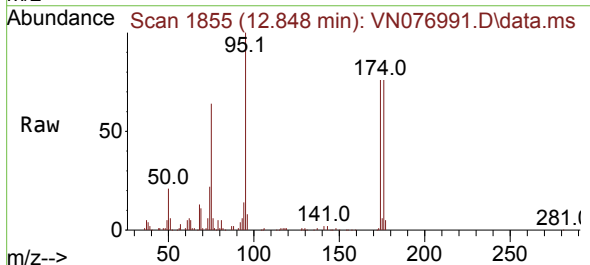
Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-DRUM279-031023

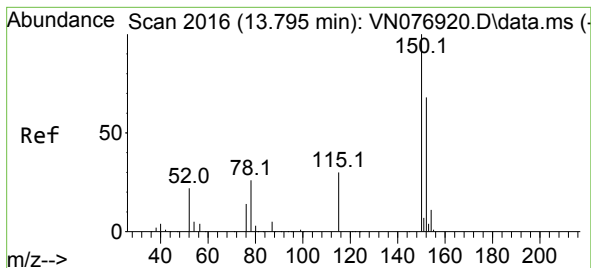
Tgt Ion:117 Resp: 340876
Ion Ratio Lower Upper
117 100
82 60.5 43.5 65.3
119 33.1 25.5 38.3



#71
Bromoform
Concen: 0.303 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. 0.265 min
Lab File: VN076991.D
Acq: 14 Mar 2023 18:46

Tgt Ion:173 Resp: 653
Ion Ratio Lower Upper
173 100
175 1310.4 24.9 74.6#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN076991.D

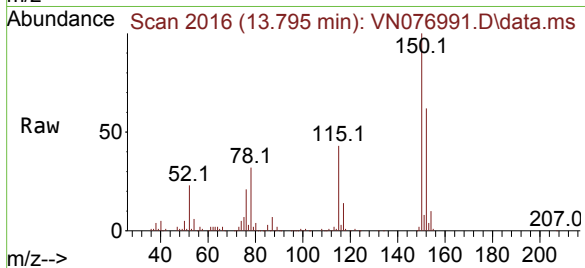
Acq: 14 Mar 2023 18:46

Instrument :

MSVOA_N

ClientSampleId :

IDW-SO-DRUM279-031023



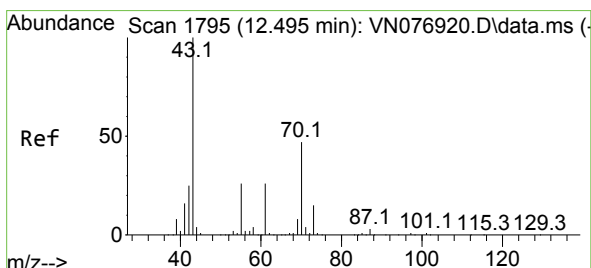
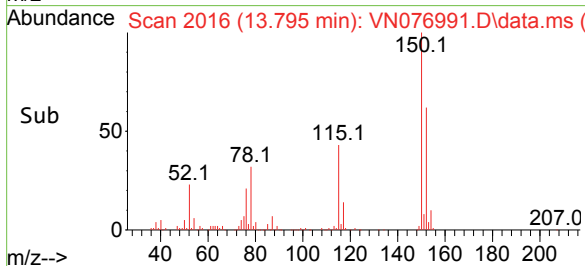
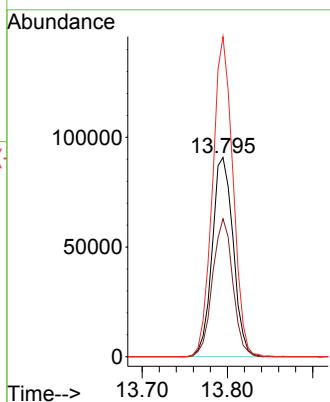
Tgt Ion:152 Resp: 155102

Ion Ratio Lower Upper

152 100

115 66.9 30.3 90.9

150 156.8 0.0 353.6



#74

N-ethyl acetate

Concen: 0.283 ug/l

RT: 12.489 min Scan# 1794

Delta R.T. -0.006 min

Lab File: VN076991.D

Acq: 14 Mar 2023 18:46

Tgt Ion: 43 Resp: 1295

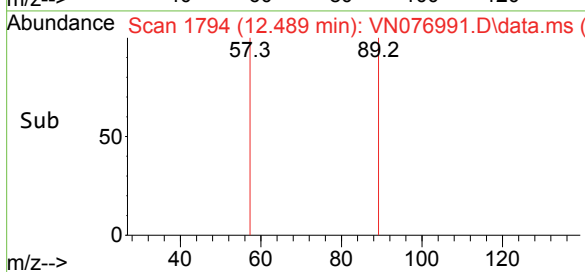
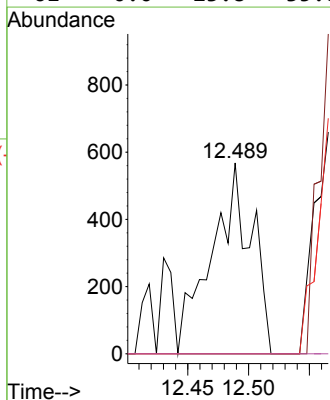
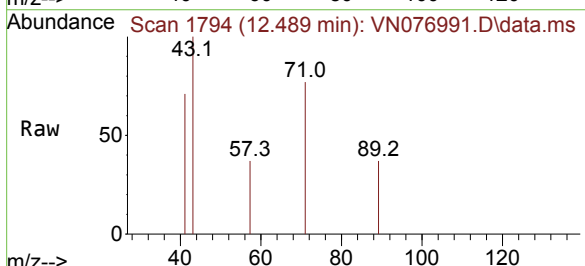
Ion Ratio Lower Upper

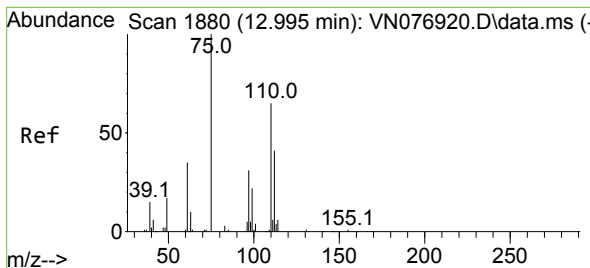
43 100

70 0.0 46.8 70.2#

55 0.0 23.4 35.2#

61 0.0 23.8 35.8#





#76

1,2,3-Trichloropropane

Concen: 28.528 ug/l

RT: 12.848 min Scan# 1855

Delta R.T. -0.147 min

Lab File: VN076991.D

Acq: 14 Mar 2023 18:46

Instrument :

MSVOA_N

ClientSampleId :

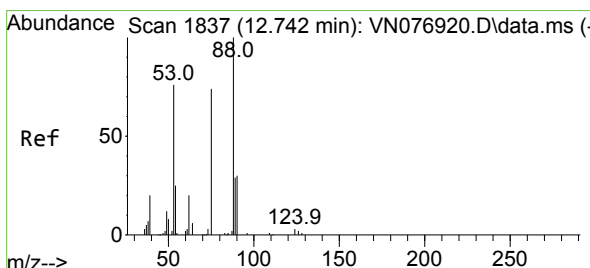
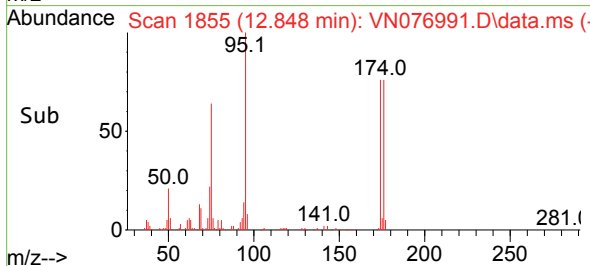
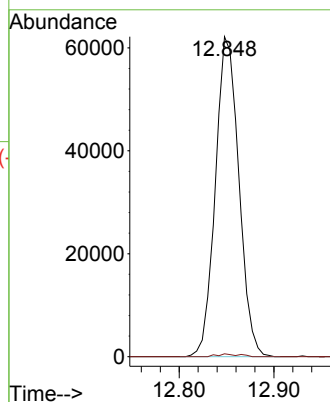
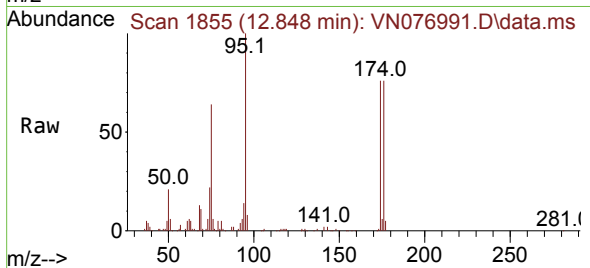
IDW-SO-DRUM279-031023

Tgt Ion: 75 Resp: 107276

Ion Ratio Lower Upper

75 100

77 0.8 93.8 281.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 93.187 ug/l

RT: 12.848 min Scan# 1855

Delta R.T. 0.106 min

Lab File: VN076991.D

Acq: 14 Mar 2023 18:46

Tgt Ion: 75 Resp: 107276

Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.0#

89 0.1 39.5 59.3#

