

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060623\
 Data File : VN078074.D
 Acq On : 06 Jun 2023 16:48
 Operator : JC\MD
 Sample : 03032-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-20-0A

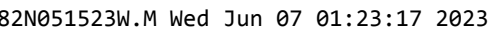
Quant Time: Jun 07 01:23:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

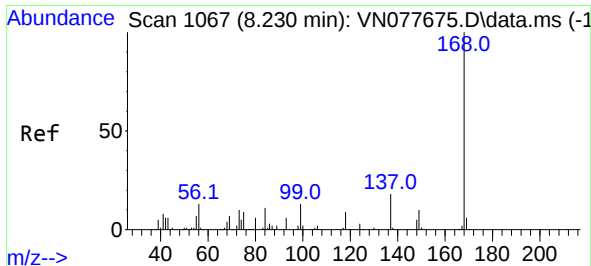
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	433109	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	786919	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	695236	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	204275	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	277885	42.881	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	85.760%		
35) Dibromofluoromethane	8.177	113	244638	47.675	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.340%		
50) Toluene-d8	10.571	98	969533	49.087	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.180%		
62) 4-Bromofluorobenzene	12.853	95	311174	44.608	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	89.220%		
Target Compounds						Qvalue
3) Chloromethane	2.365	50	1117	Below Cal		92
5) Bromomethane	2.971	94	1434	0.312 ug/l #		62
6) Chloroethane	3.142	64	902	0.201 ug/l #		57
11) Tert butyl alcohol	5.541	59	376	0.420 ug/l #		72
13) Acrolein	4.189	56	317	Below Cal #		66
16) Acetone	4.453	43	27109	13.296 ug/l		99
18) Methyl Acetate	5.059	43	4094	0.479 ug/l #		79
20) Methylene Chloride	5.289	84	15209	0.927 ug/l		88
25) 2-Butanone	7.506	43	2760	0.865 ug/l		98
31) Cyclohexane	8.230	56	10141	1.151 ug/l #		26
36) 1,1-Dichloropropene	8.230	75	35171	4.686 ug/l #		49
37) Ethyl Acetate	7.571	43	72416	10.825 ug/l		98
38) Carbon Tetrachloride	8.235	117	46582	6.146 ug/l #		15
43) Isopropyl Acetate	8.694	43	307319	28.125 ug/l #		85
45) 1,2-Dichloropropane	9.747	63	4275	0.757 ug/l #		45
48) Methyl methacrylate	9.671	41	7978	1.540 ug/l #		30
49) 1,4-Dioxane	9.747	88	424	4.333 ug/l #		1
51) 4-Methyl-2-Pentanone	10.365	43	223208	34.366 ug/l #		41
54) cis-1,3-Dichloropropene	10.365	75	120037	13.290 ug/l #		64
57) 1,3-Dichloropropane	11.212	76	15613	1.663 ug/l #		42
59) 2-Hexanone	11.176	43	250437	52.129 ug/l #		19
74) N-amyl acetate	12.312	43	60308	9.266 ug/l #		46
76) 1,2,3-Trichloropropane	12.853	75	162162	31.698 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.853	75	162162	101.325 ug/l #		15
84) 1,2,4-Trimethylbenzene	13.494	105	2995	0.206 ug/l		93
92) 1,2-Dibromo-3-Chloropr...	14.717	75	229	0.218 ug/l #		37
95) Naphthalene	15.653	128	4565	0.327 ug/l #		68

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

Quant Time: Jun 07 01:23:11 2023
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Response via : Initial Calibration

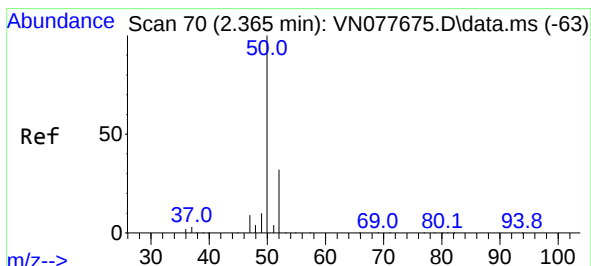
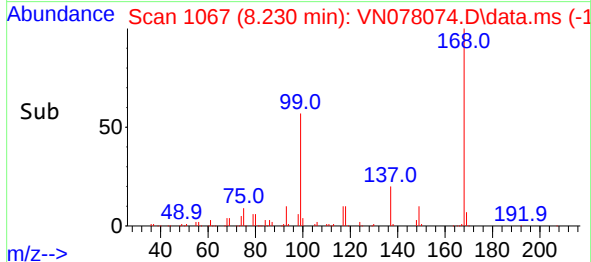
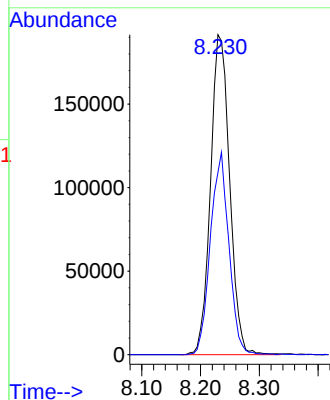
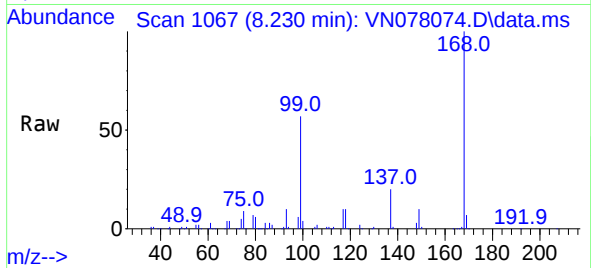




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

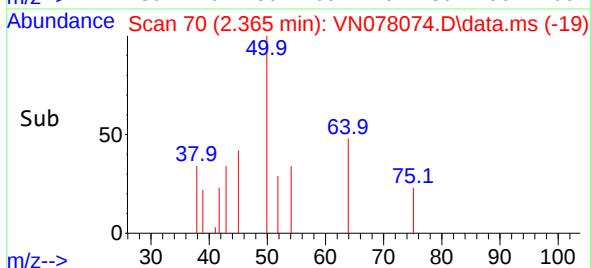
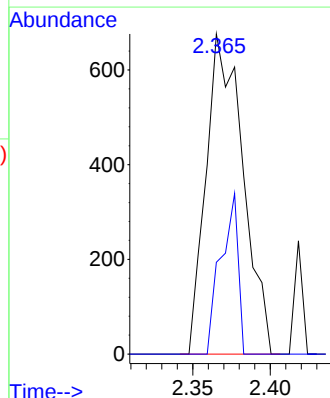
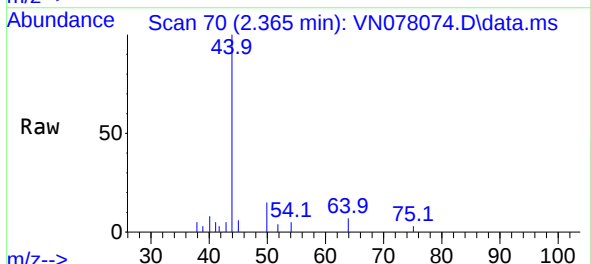
Instrument :
MSVOA_N
ClientSampleId :
TP-20-0A

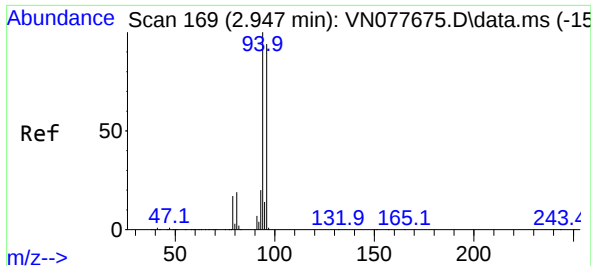
Tgt Ion:168 Resp: 433109
Ion Ratio Lower Upper
168 100
99 57.0 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

Tgt Ion: 50 Resp: 1117
Ion Ratio Lower Upper
50 100
52 28.7 26.5 39.7

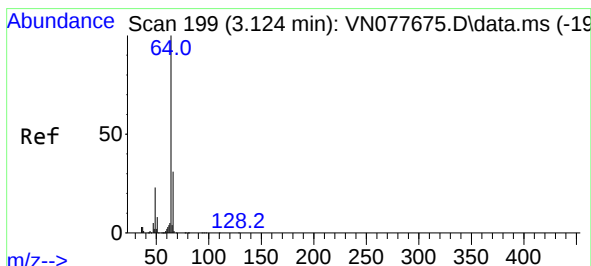
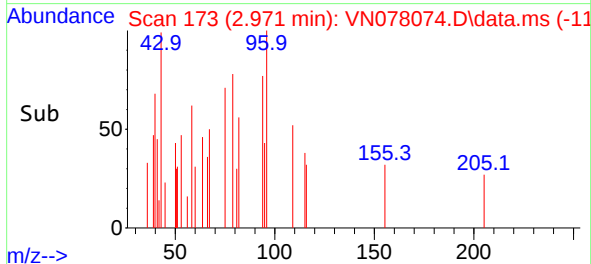
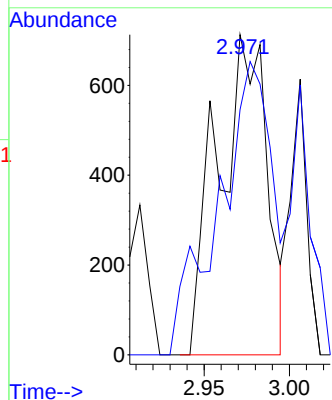
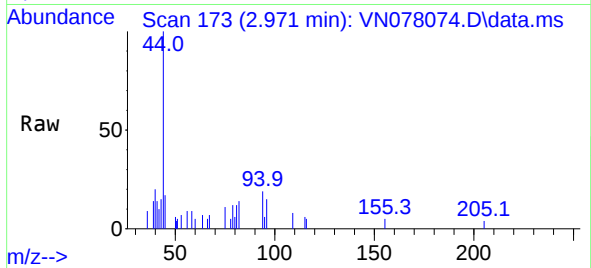




#5
Bromomethane
Concen: 0.312 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

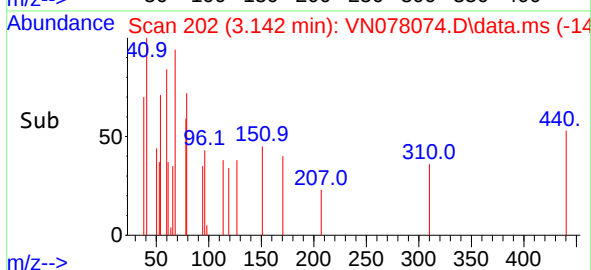
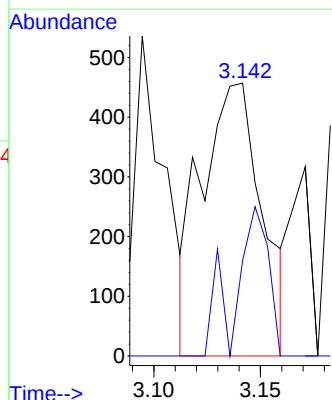
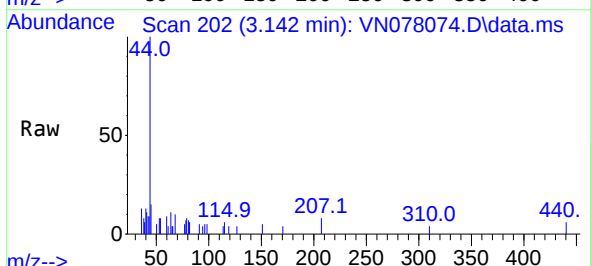
Instrument :
MSVOA_N
ClientSampleId :
TP-20-0A

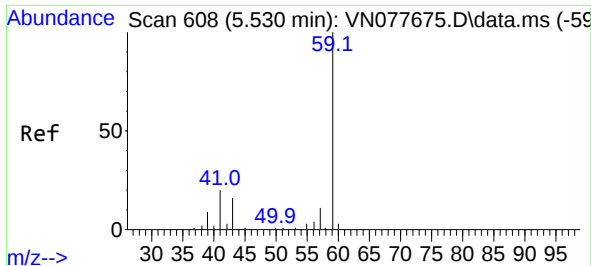
Tgt Ion: 94 Resp: 1434
Ion Ratio Lower Upper
94 100
96 55.3 73.1 109.7#



#6
Chloroethane
Concen: 0.201 ug/l
RT: 3.142 min Scan# 202
Delta R.T. 0.018 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

Tgt Ion: 64 Resp: 902
Ion Ratio Lower Upper
64 100
66 55.7 25.4 38.2#





#11

Tert butyl alcohol

Concen: 0.420 ug/l

RT: 5.541 min Scan# 61

Delta R.T. 0.011 min

Lab File: VN078074.D

Acq: 06 Jun 2023 16:48

Instrument :

MSVOA_N

ClientSampleId :

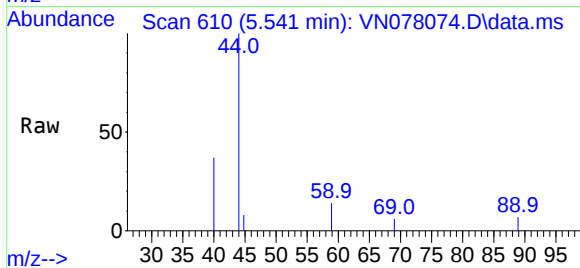
TP-20-0A

Tgt Ion: 59 Resp: 376

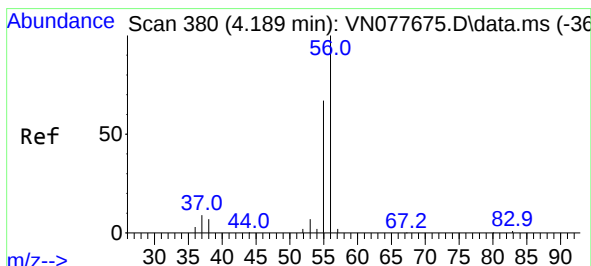
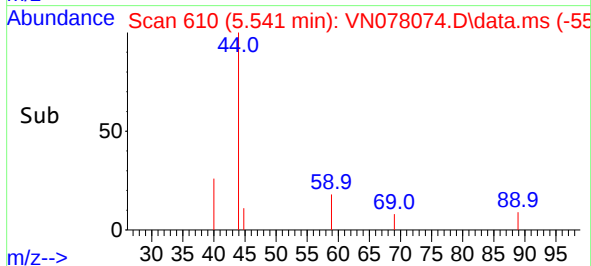
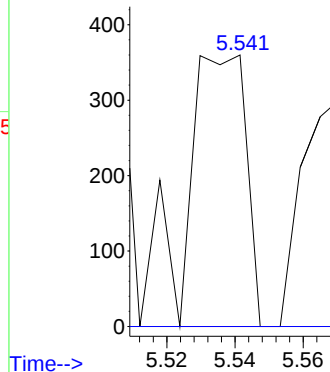
Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance



#13

Acrolein

Concen: Below Cal

RT: 4.189 min Scan# 380

Delta R.T. -0.000 min

Lab File: VN078074.D

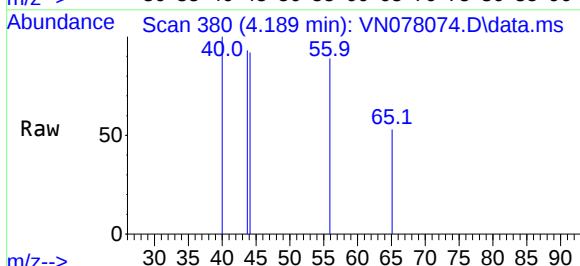
Acq: 06 Jun 2023 16:48

Tgt Ion: 56 Resp: 317

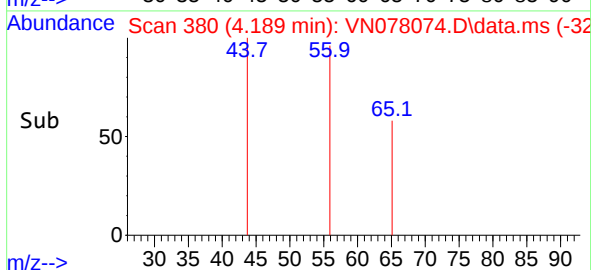
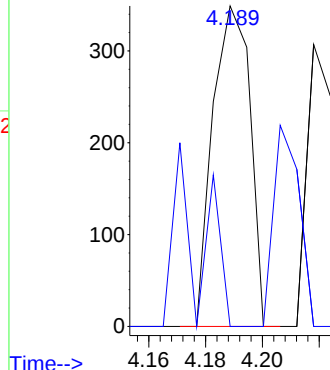
Ion Ratio Lower Upper

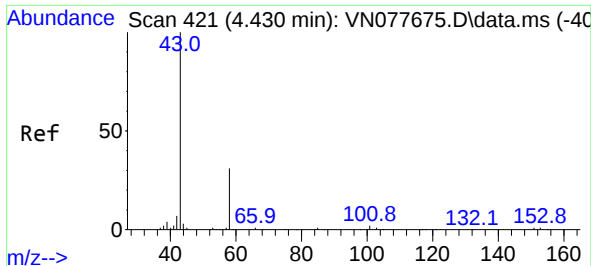
56 100

55 40.7 54.5 81.7#



Abundance

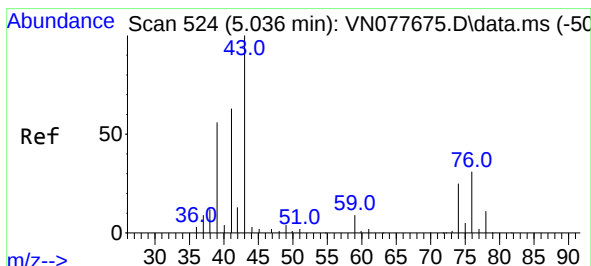
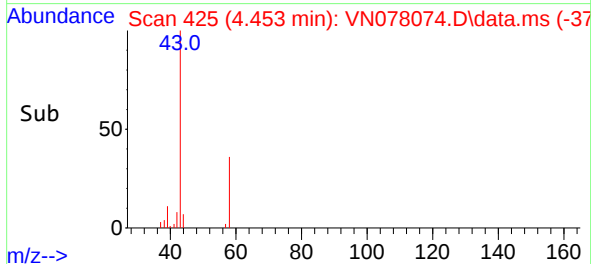
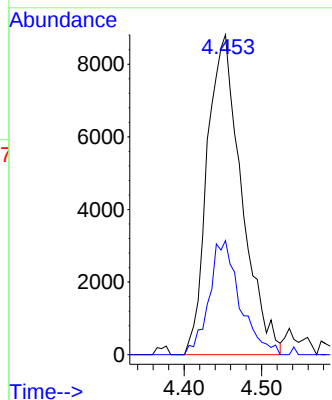
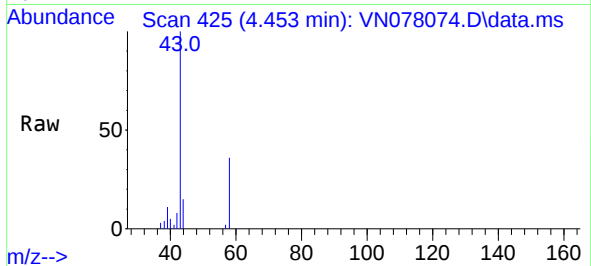




#16
Acetone
Concen: 13.296 ug/l
RT: 4.453 min Scan# 43
Delta R.T. 0.023 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

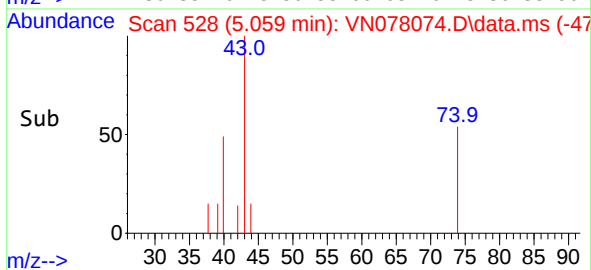
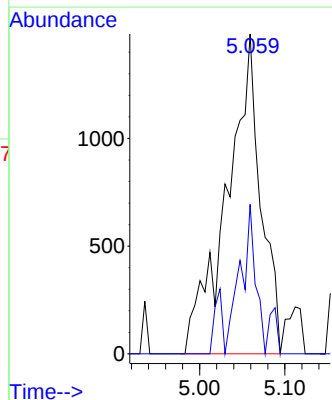
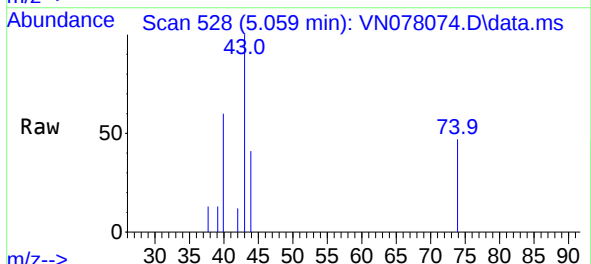
Instrument :
MSVOA_N
ClientSampleId :
TP-20-0A

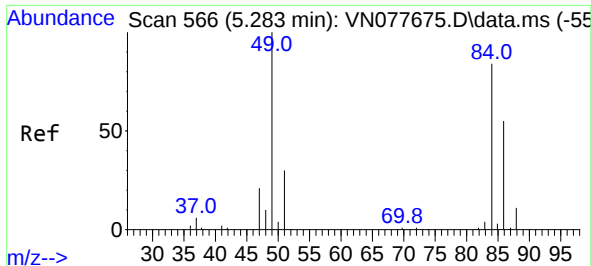
Tgt Ion: 43 Resp: 27109
Ion Ratio Lower Upper
43 100
58 35.7 28.0 42.0



#18
Methyl Acetate
Concen: 0.479 ug/l
RT: 5.059 min Scan# 528
Delta R.T. 0.023 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

Tgt Ion: 43 Resp: 4094
Ion Ratio Lower Upper
43 100
74 21.2 26.2 39.4#



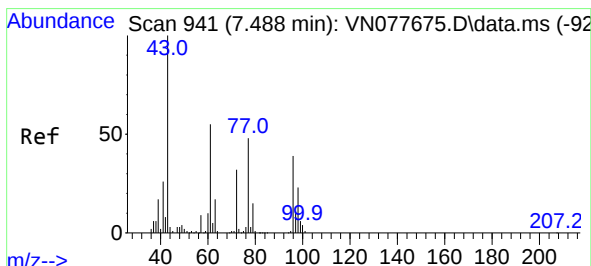
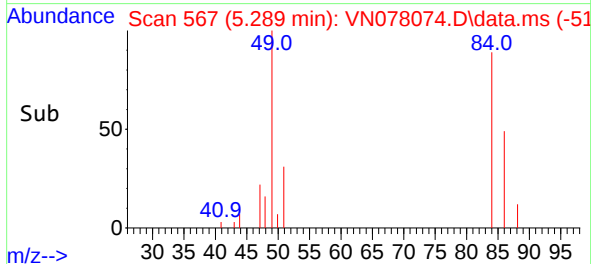
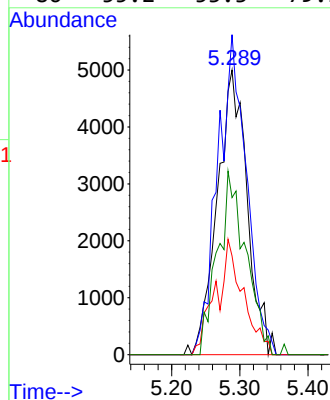
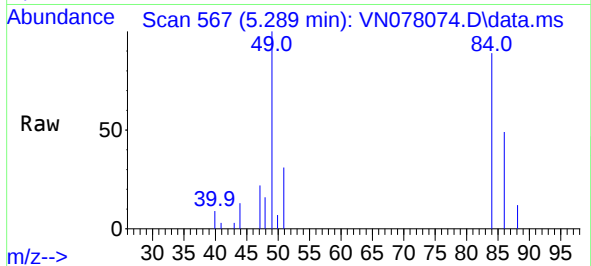


#20
Methylene Chloride
Concen: 0.927 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

Instrument :
MSVOA_N
ClientSampleId :
TP-20-0A

Tgt Ion: 84 Resp: 15209

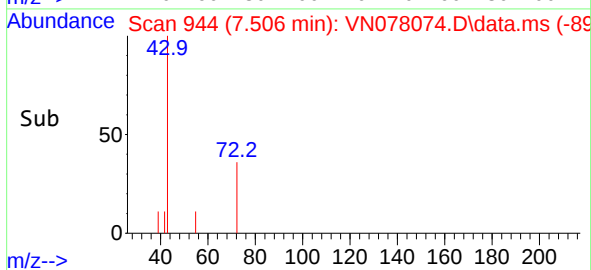
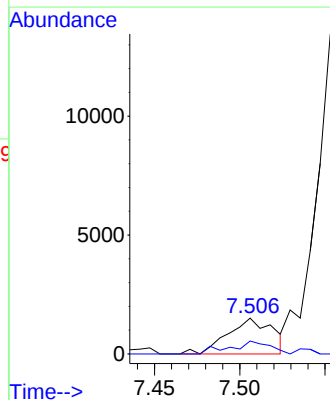
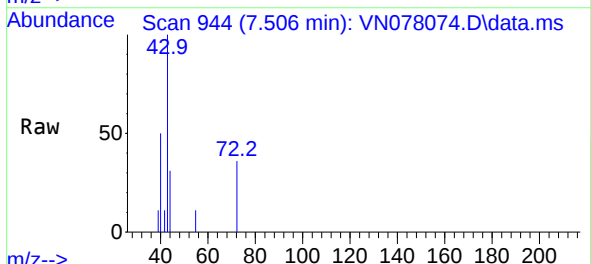
Ion	Ratio	Lower	Upper
84	100		
49	112.4	79.7	119.5
51	34.7	25.2	37.8
86	55.2	53.3	79.9

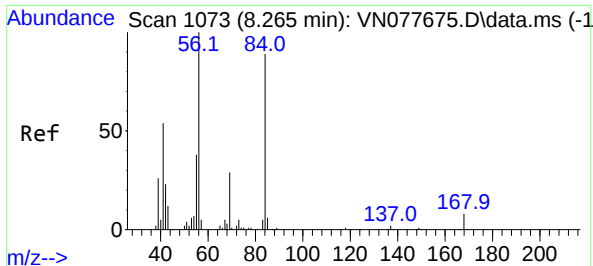


#25
2-Butanone
Concen: 0.865 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.018 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

Tgt Ion: 43 Resp: 2760

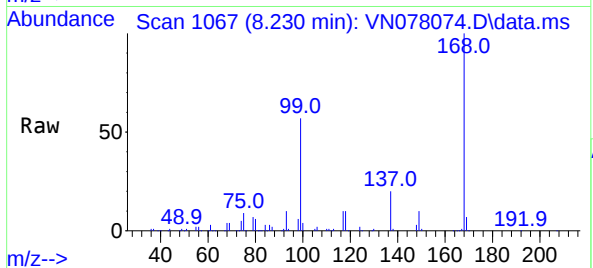
Ion	Ratio	Lower	Upper
43	100		
72	36.3	30.2	45.2



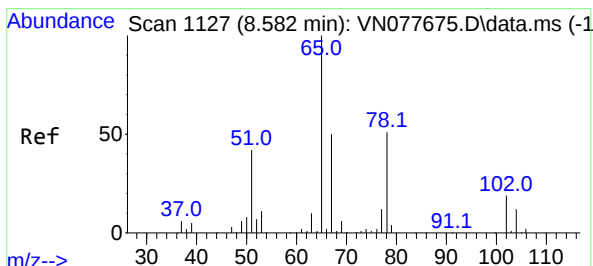
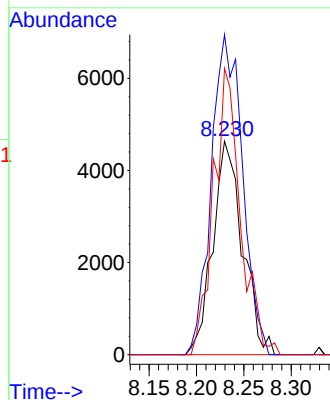
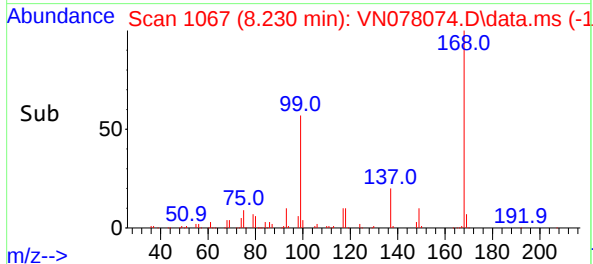


#31
Cyclohexane
Concen: 1.151 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

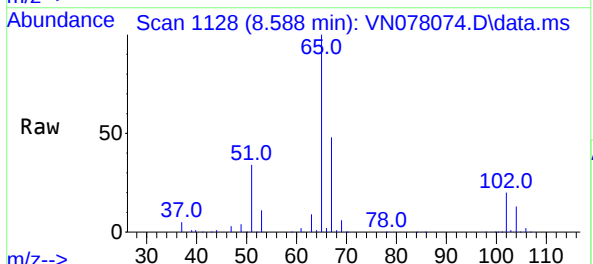
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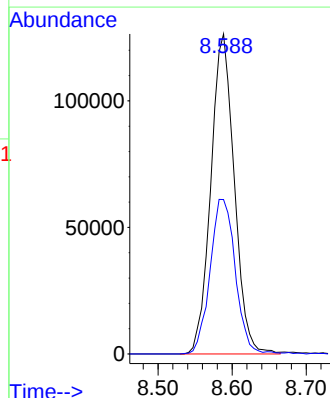
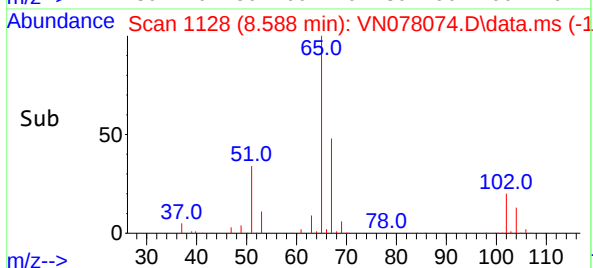
Tgt Ion: 56 Resp: 10141
Ion Ratio Lower Upper
56 100
69 149.9 26.8 40.2#
84 134.1 81.8 122.6#

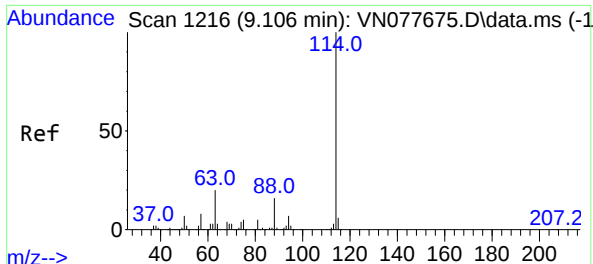


#33
1,2-Dichloroethane-d4
Concen: 42.881 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48



Tgt Ion: 65 Resp: 277885
Ion Ratio Lower Upper
65 100
67 52.0 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN078074.D

Acq: 06 Jun 2023 16:48

Instrument :

MSVOA_N

ClientSampleId :

TP-20-0A

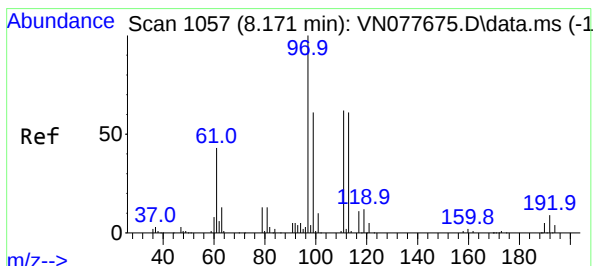
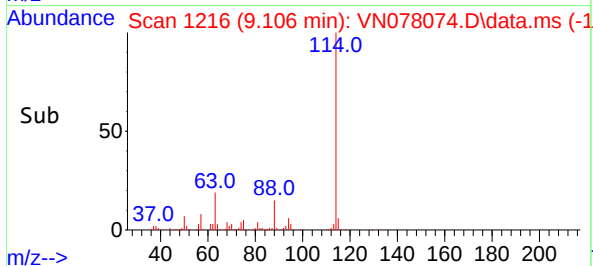
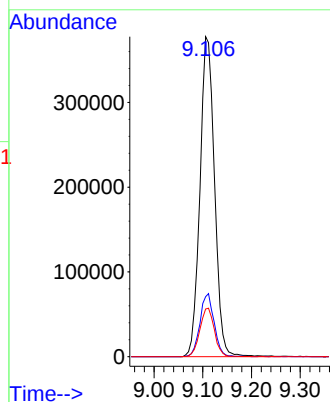
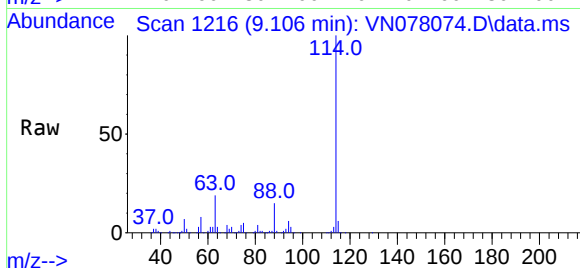
Tgt Ion:114 Resp: 786919

Ion Ratio Lower Upper

114 100

63 18.8 0.0 36.4

88 14.9 0.0 30.6



#35

Dibromofluoromethane

Concen: 47.675 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN078074.D

Acq: 06 Jun 2023 16:48

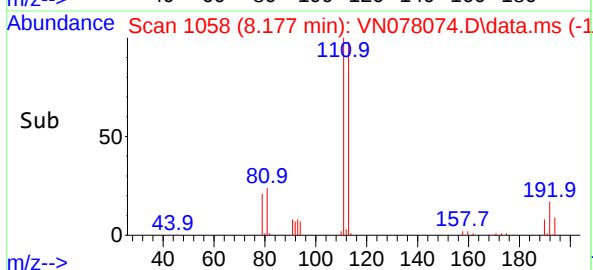
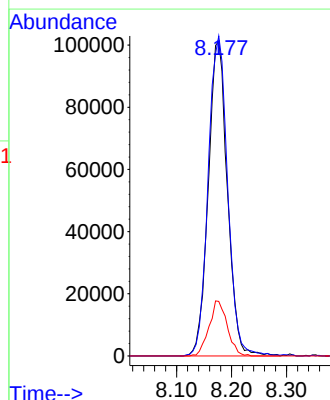
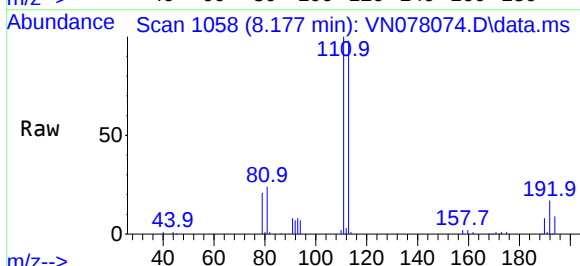
Tgt Ion:113 Resp: 244638

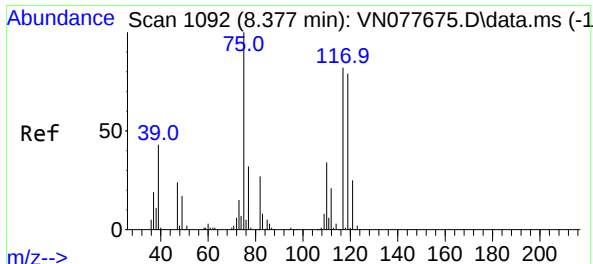
Ion Ratio Lower Upper

113 100

111 103.7 82.6 123.8

192 16.7 12.7 19.1

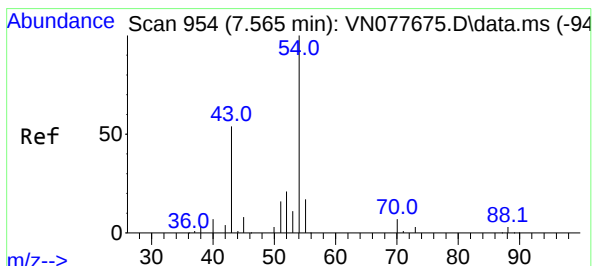
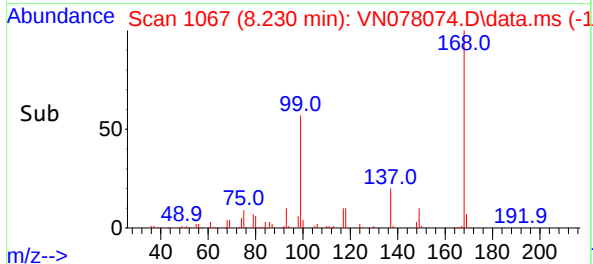
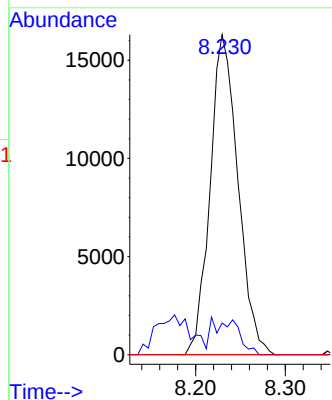
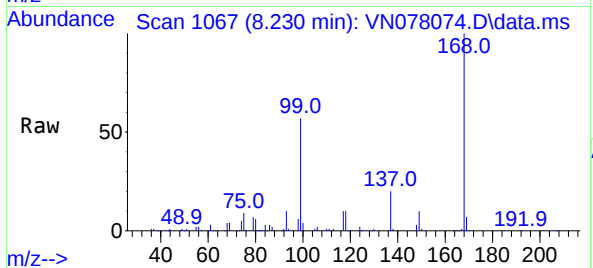




#36
1,1-Dichloropropene
Concen: 4.686 ug/l
RT: 8.230 min Scan# 1092
Delta R.T. -0.147 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

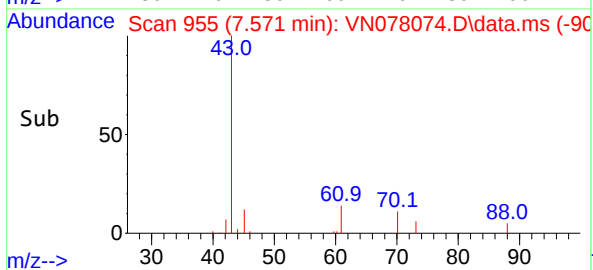
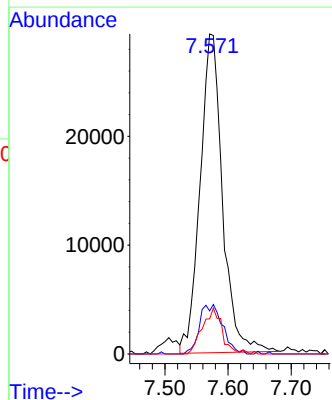
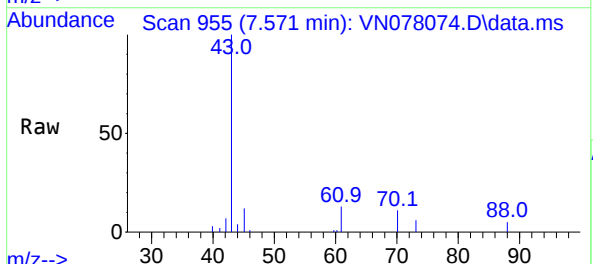
Instrument :
MSVOA_N
ClientSampleId :
TP-20-0A

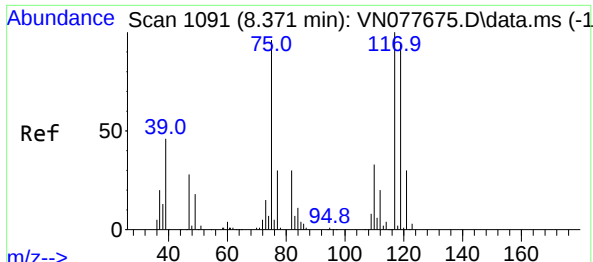
Tgt Ion: 75 Resp: 35171
Ion Ratio Lower Upper
75 100
110 10.4 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 10.825 ug/l
RT: 7.571 min Scan# 955
Delta R.T. 0.006 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

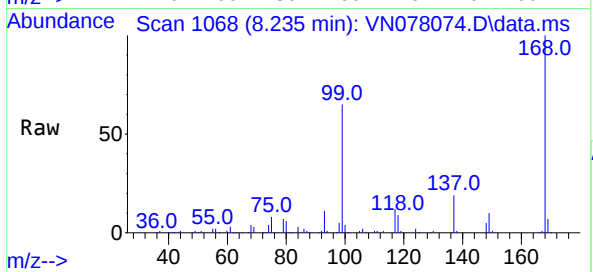
Tgt Ion: 43 Resp: 72416
Ion Ratio Lower Upper
43 100
61 16.0 13.2 19.8
70 12.7 11.3 16.9



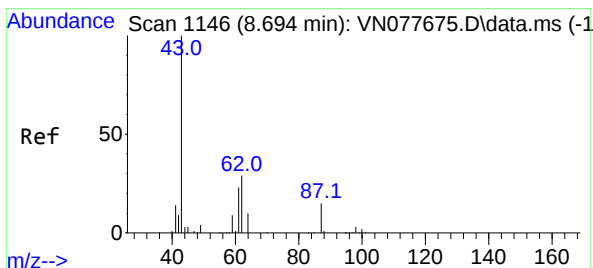
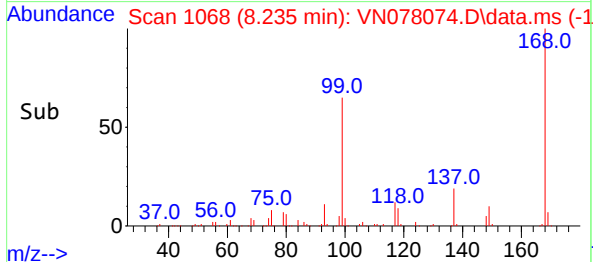
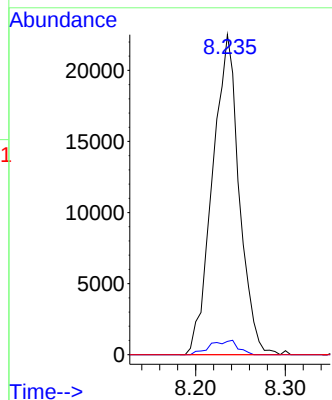


#38
Carbon Tetrachloride
Concen: 6.146 ug/l
RT: 8.235 min Scan# 1091
Delta R.T. -0.136 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

Instrument :
MSVOA_N
ClientSampleId :
TP-20-0A

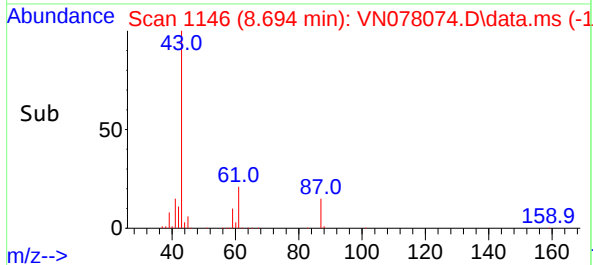
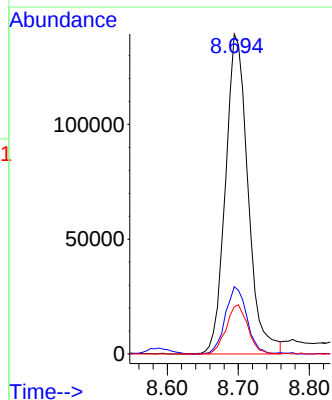
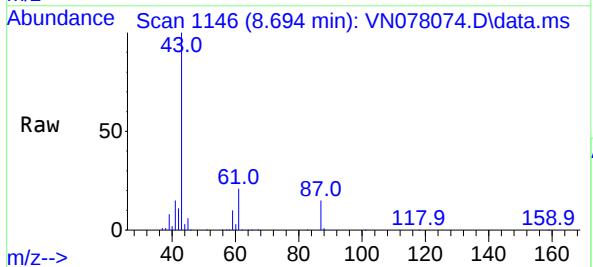


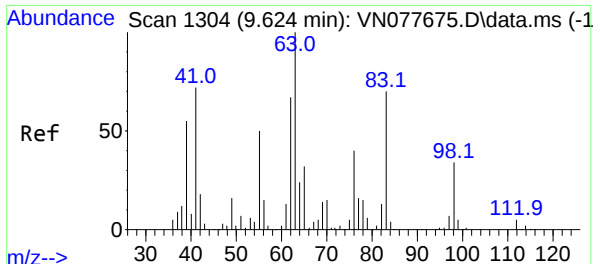
Tgt Ion:117 Resp: 46582
Ion Ratio Lower Upper
117 100
119 4.2 77.3 115.9#
121 0.0 23.3 34.9#



#43
Isopropyl Acetate
Concen: 28.125 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

Tgt Ion: 43 Resp: 307319
Ion Ratio Lower Upper
43 100
61 20.0 24.7 37.1#
87 14.7 14.6 21.8

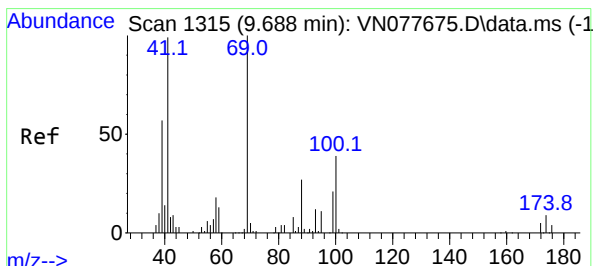
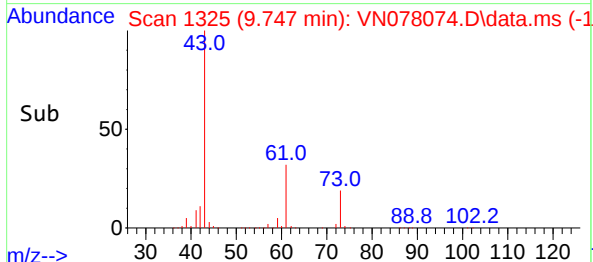
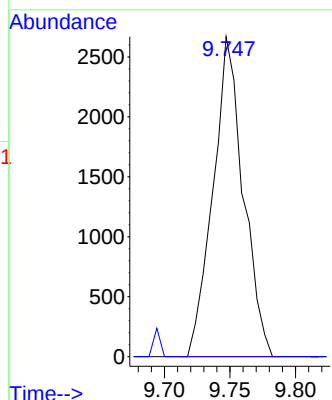
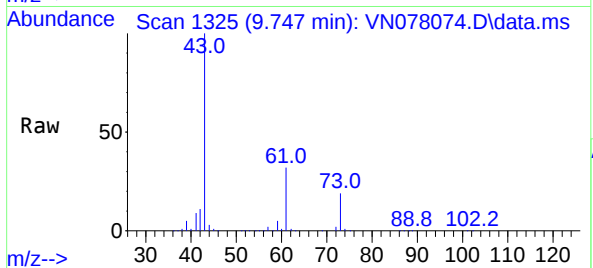




#45
1,2-Dichloropropane
Concen: 0.757 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.123 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

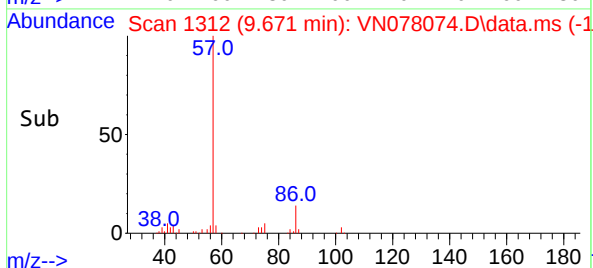
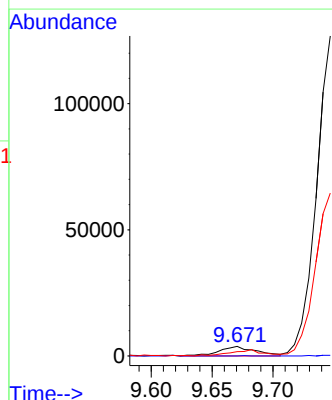
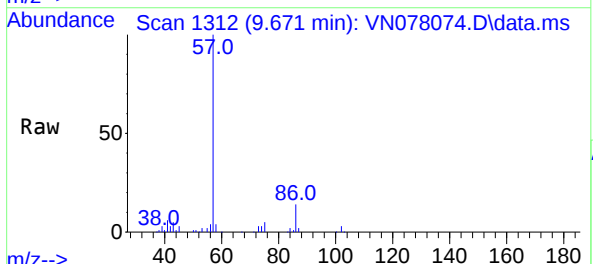
Instrument :
MSVOA_N
ClientSampleId :
TP-20-0A

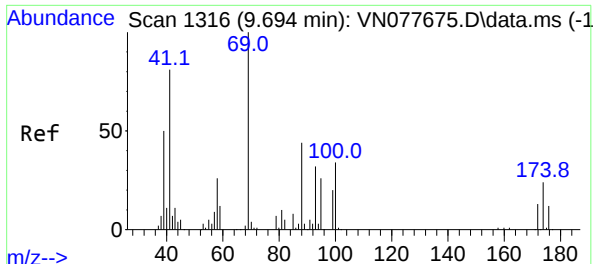
Tgt Ion: 63 Resp: 4275
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



#48
Methyl methacrylate
Concen: 1.540 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.017 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

Tgt Ion: 41 Resp: 7978
Ion Ratio Lower Upper
41 100
69 0.7 90.4 135.6#
39 58.1 54.6 81.8

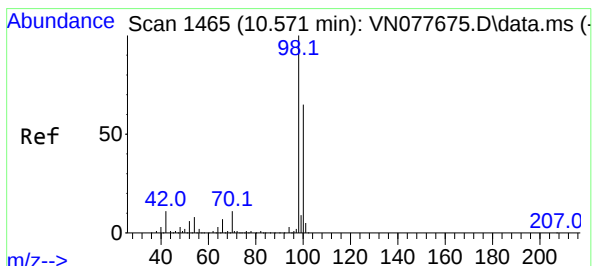
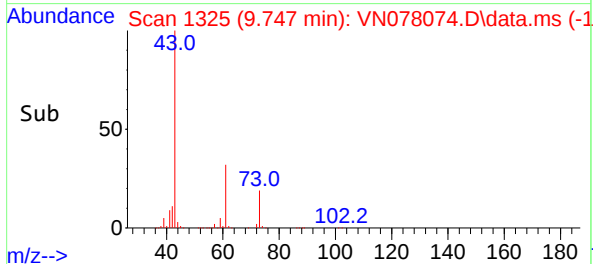
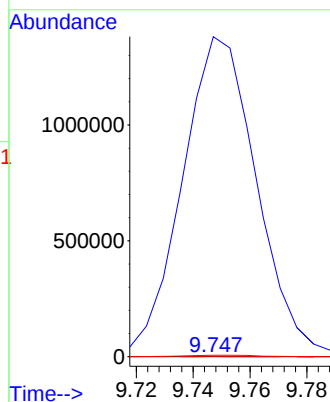
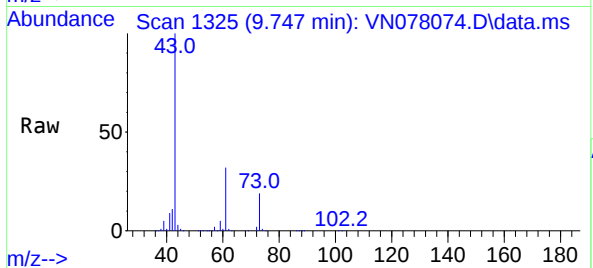




#49
1,4-Dioxane
Concen: 4.333 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.053 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

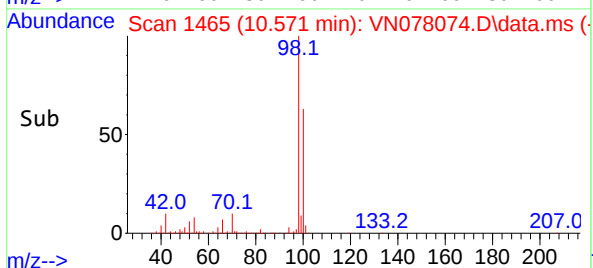
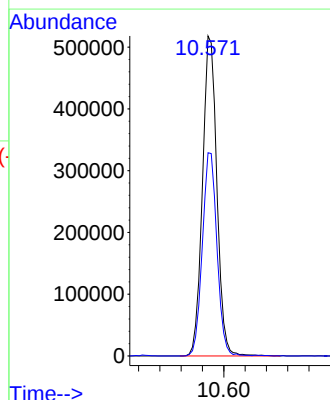
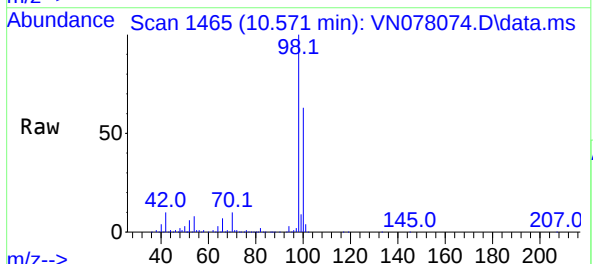
Instrument :
MSVOA_N
ClientSampleId :
TP-20-0A

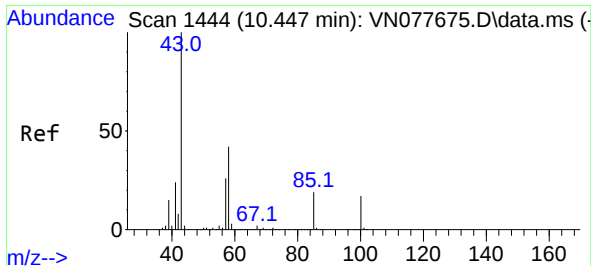
Tgt Ion: 88 Resp: 424
Ion Ratio Lower Upper
88 100
43 601737.5 17.0 25.6#
58 2771.9 47.0 70.4#



#50
Toluene-d8
Concen: 49.087 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

Tgt Ion: 98 Resp: 969533
Ion Ratio Lower Upper
98 100
100 64.5 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 34.366 ug/l

RT: 10.365 min Scan# 14

Delta R.T. -0.082 min

Lab File: VN078074.D

Acq: 06 Jun 2023 16:48

Instrument :

MSVOA_N

ClientSampleId :

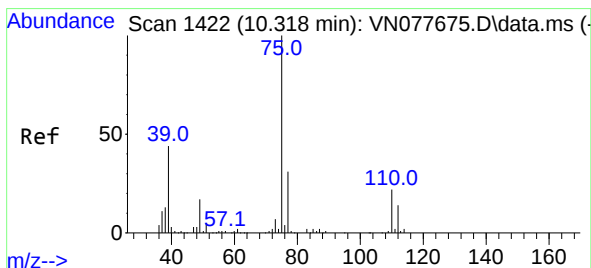
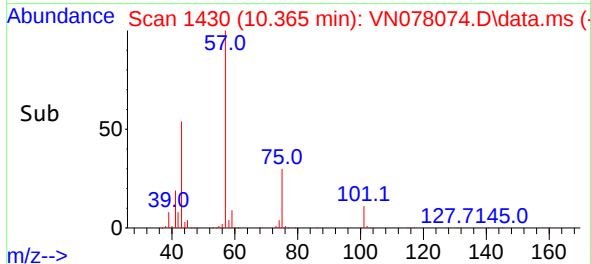
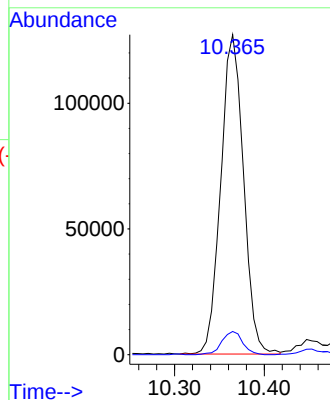
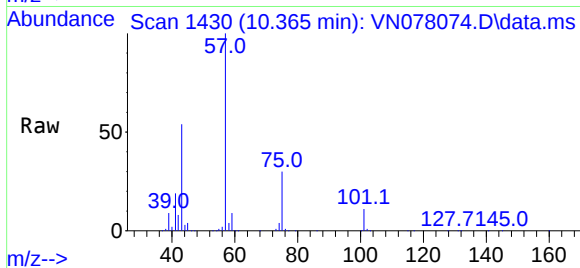
TP-20-0A

Tgt Ion: 43 Resp: 223208

Ion Ratio Lower Upper

43 100

58 6.7 36.6 54.8#



#54

cis-1,3-Dichloropropene

Concen: 13.290 ug/l

RT: 10.365 min Scan# 1430

Delta R.T. 0.047 min

Lab File: VN078074.D

Acq: 06 Jun 2023 16:48

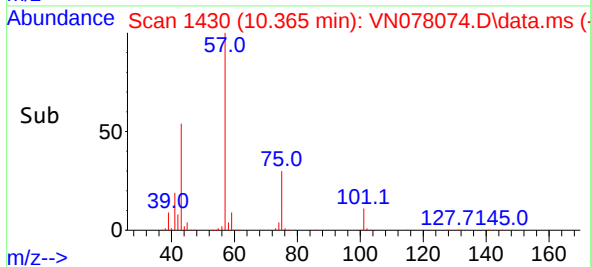
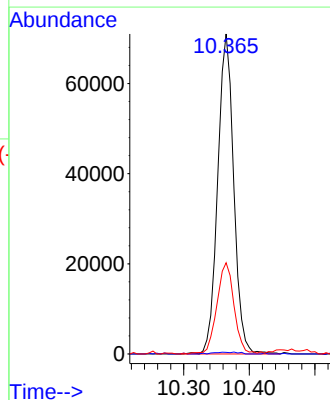
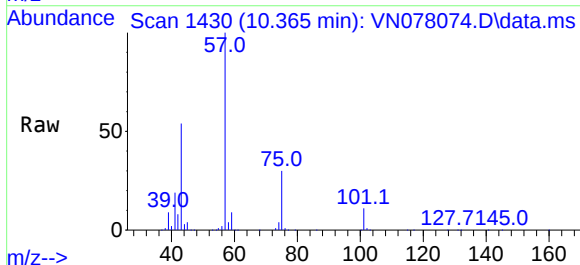
Tgt Ion: 75 Resp: 120037

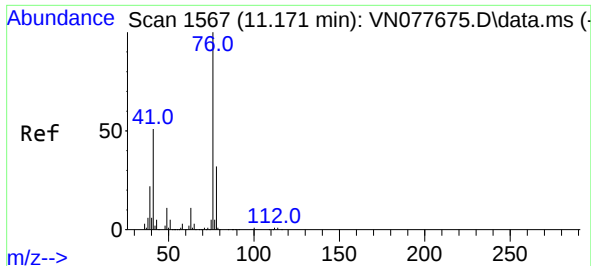
Ion Ratio Lower Upper

75 100

77 0.5 26.1 39.1#

39 28.5 31.6 47.4#





#57

1,3-Dichloropropane

Concen: 1.663 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.041 min

Lab File: VN078074.D

Acq: 06 Jun 2023 16:48

Instrument :

MSVOA_N

ClientSampleId :

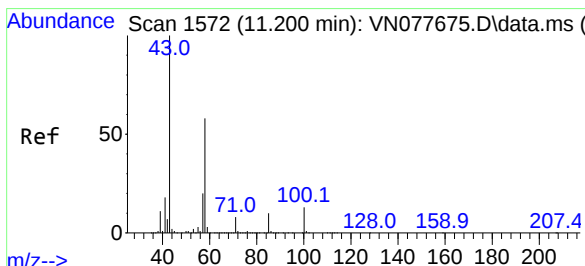
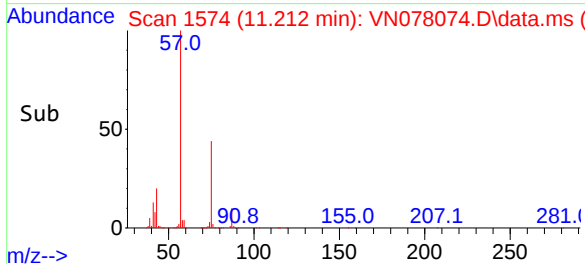
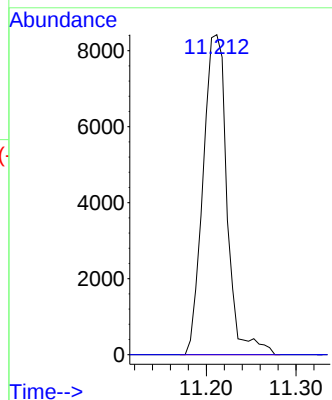
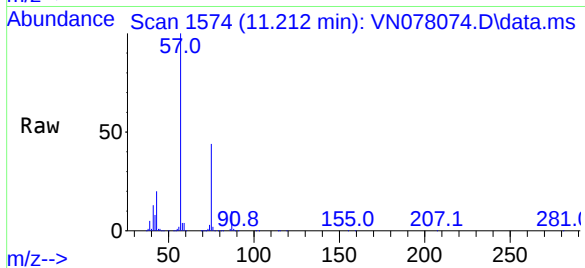
TP-20-0A

Tgt Ion: 76 Resp: 15613

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 52.129 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN078074.D

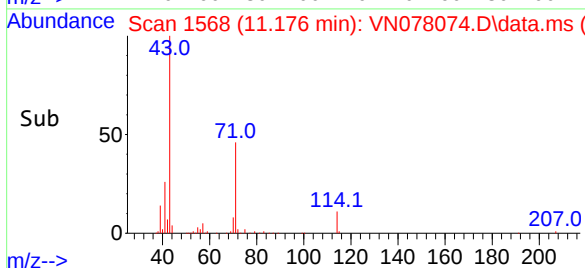
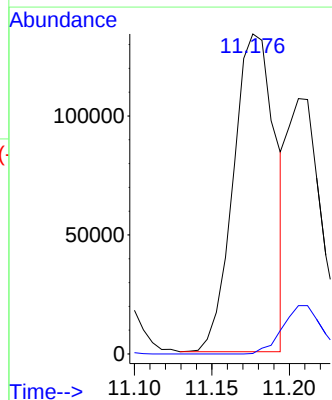
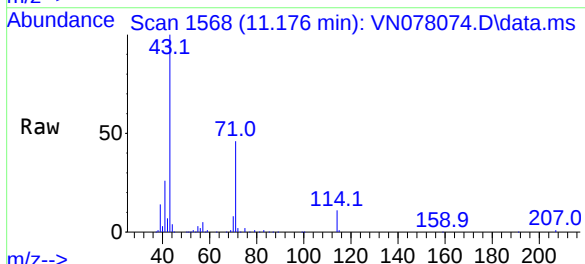
Acq: 06 Jun 2023 16:48

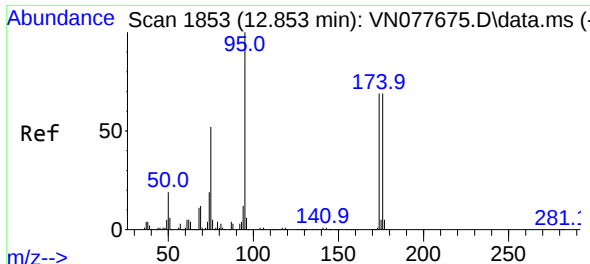
Tgt Ion: 43 Resp: 250437

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

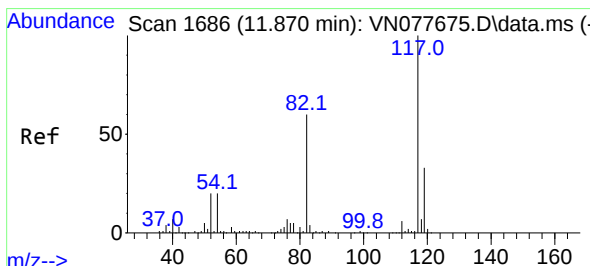
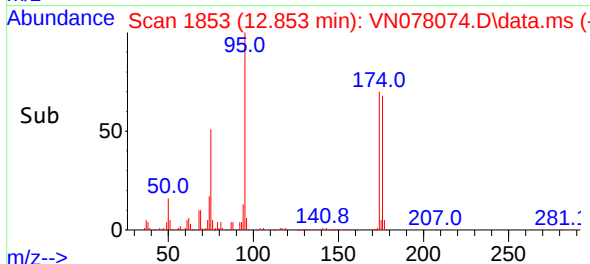
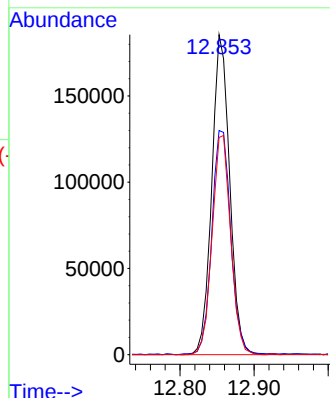
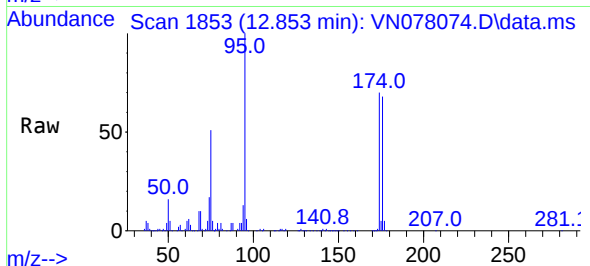




#62
4-Bromofluorobenzene
Concen: 44.608 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

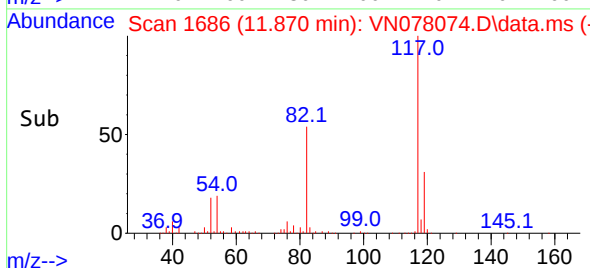
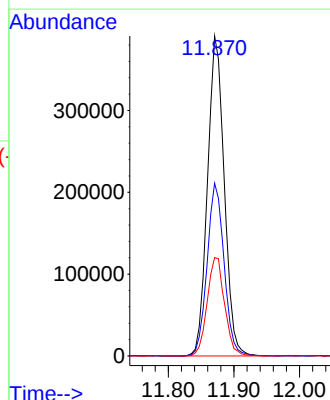
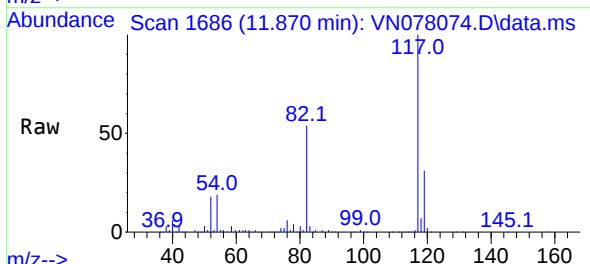
Instrument :
MSVOA_N
ClientSampleId :
TP-20-0A

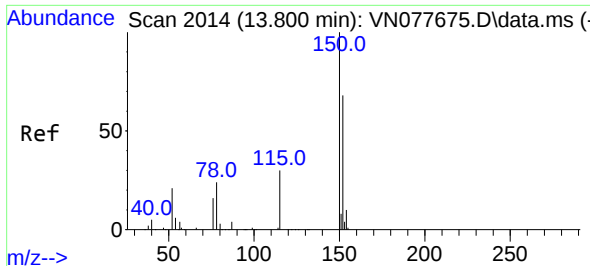
Tgt Ion: 95 Resp: 311174
Ion Ratio Lower Upper
95 100
174 74.6 0.0 143.8
176 70.7 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

Tgt Ion: 117 Resp: 695236
Ion Ratio Lower Upper
117 100
82 54.0 44.0 66.0
119 30.7 25.6 38.4

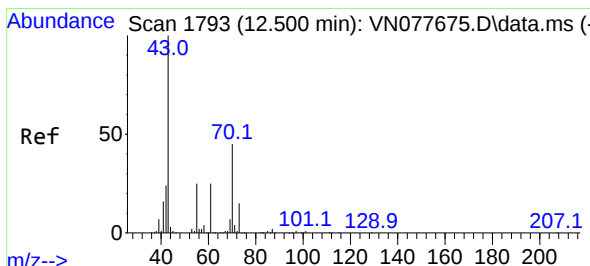
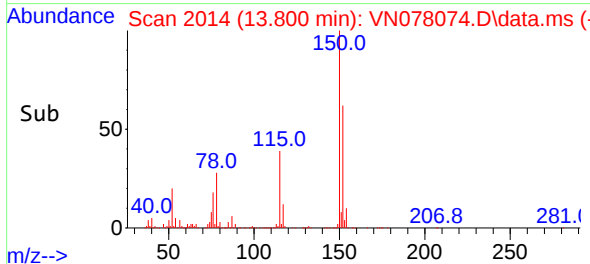
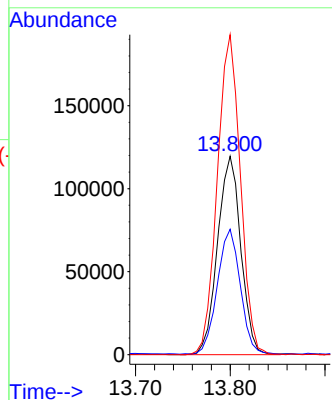
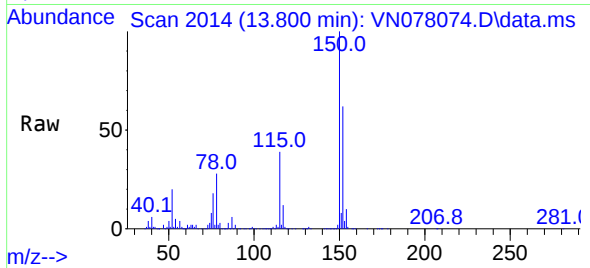




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

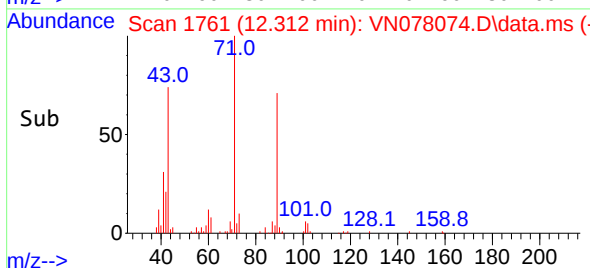
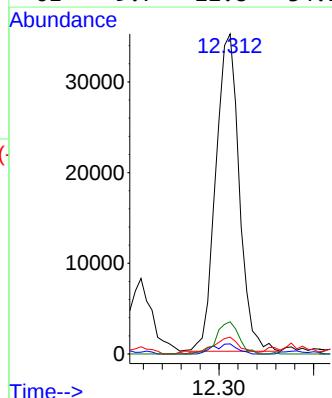
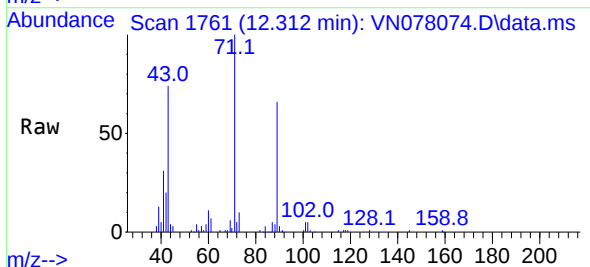
Instrument :
MSVOA_N
ClientSampleId :
TP-20-0A

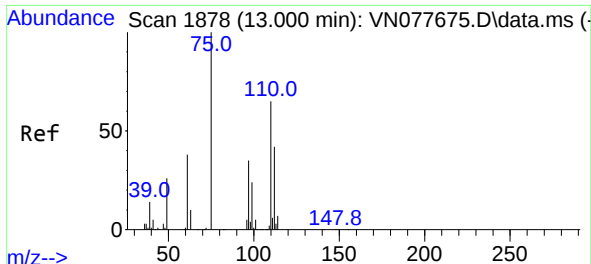
Tgt Ion:152 Resp: 204275
Ion Ratio Lower Upper
152 100
115 62.2 32.3 96.8
150 159.7 0.0 355.8



#74
N-ethyl acetate
Concen: 9.266 ug/l
RT: 12.312 min Scan# 1761
Delta R.T. -0.188 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

Tgt Ion: 43 Resp: 60308
Ion Ratio Lower Upper
43 100
70 3.2 43.4 65.2#
55 5.9 21.4 32.0#
61 9.7 22.8 34.2#

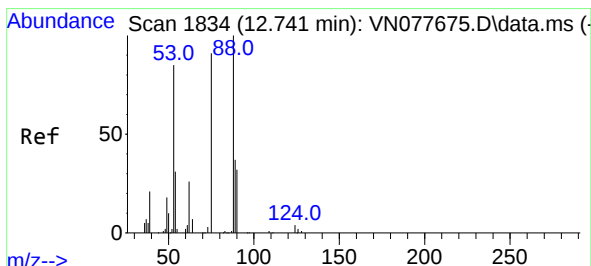
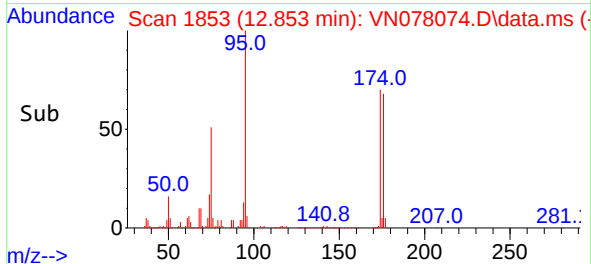
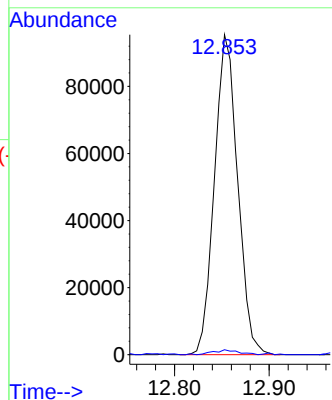
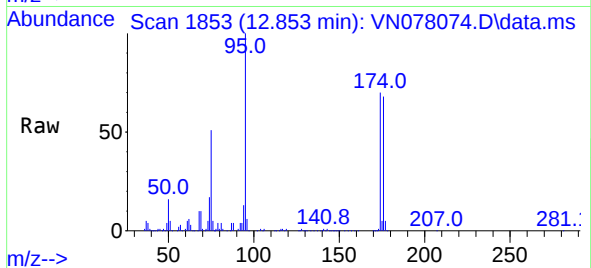




#76
1,2,3-Trichloropropane
Concen: 31.698 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

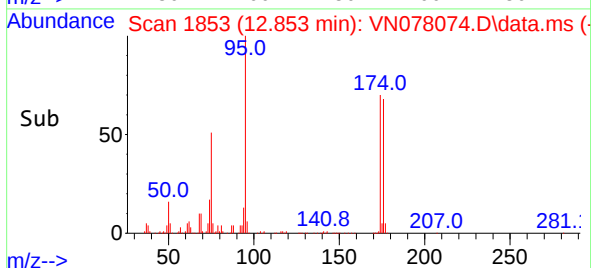
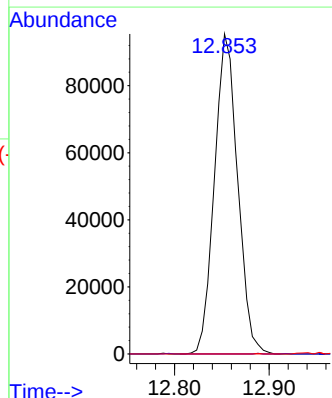
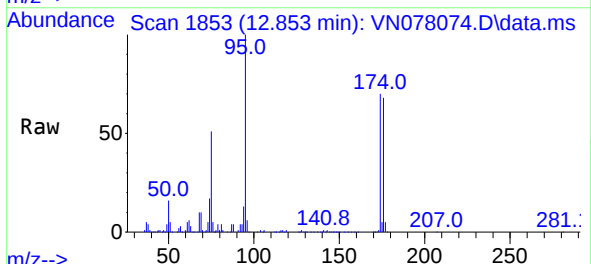
Instrument :
MSVOA_N
ClientSampleId :
TP-20-0A

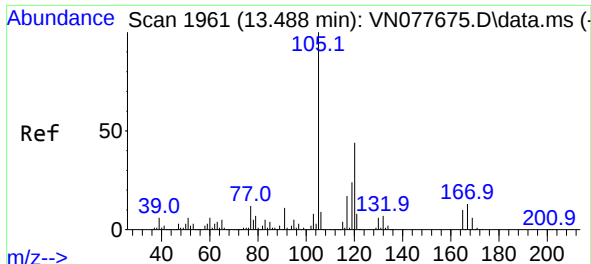
Tgt Ion: 75 Resp: 162162
Ion Ratio Lower Upper
75 100
77 1.7 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 101.325 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

Tgt Ion: 75 Resp: 162162
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

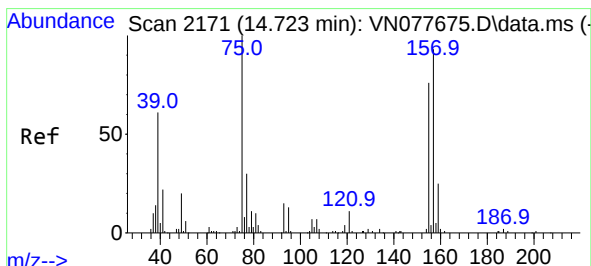
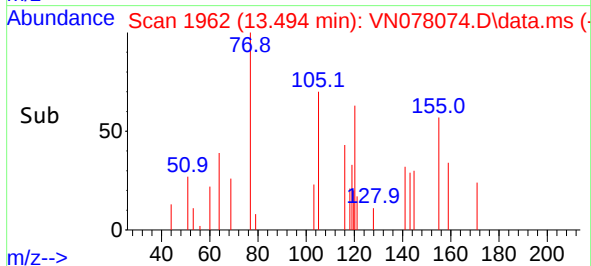
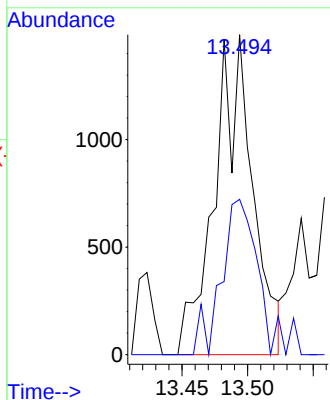
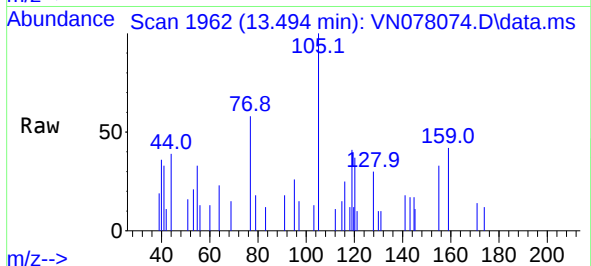




#84
1,2,4-Trimethylbenzene
Concen: 0.206 ug/l
RT: 13.494 min Scan# 1962
Delta R.T. 0.006 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

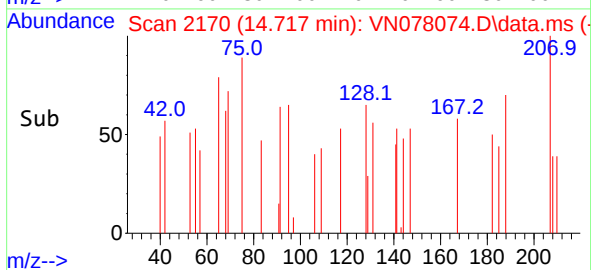
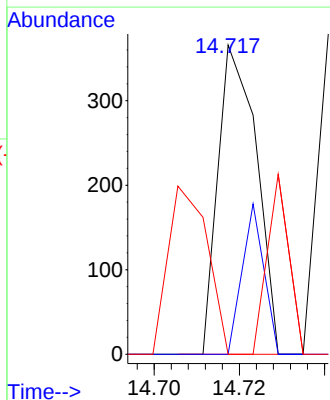
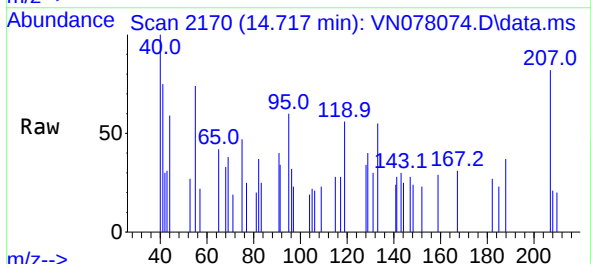
Instrument :
MSVOA_N
ClientSampleId :
TP-20-0A

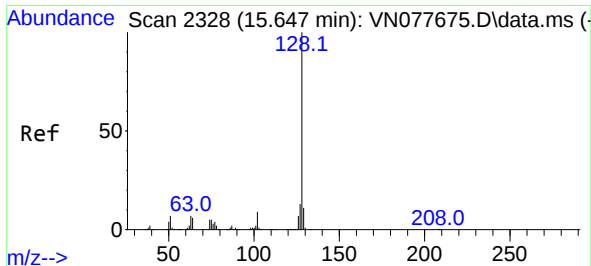
Tgt Ion:105 Resp: 2995
Ion Ratio Lower Upper
105 100
120 48.2 22.0 66.0



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.218 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.006 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

Tgt Ion: 75 Resp: 229
Ion Ratio Lower Upper
75 100
155 27.5 39.1 117.2#
157 32.8 50.3 150.9#





#95
Naphthalene
Concen: 0.327 ug/l
RT: 15.653 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN078074.D
Acq: 06 Jun 2023 16:48

Instrument :
MSVOA_N
ClientSampleId :
TP-20-0A

Tgt Ion:128 Resp: 4565
Ion Ratio Lower Upper
128 100
127 26.2 10.0 15.0#
129 0.0 8.7 13.1#

