

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN013023\
 Data File : VN076453.D
 Acq On : 30 Jan 2023 13:41
 Operator : JC\MD
 Sample : PB150523ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

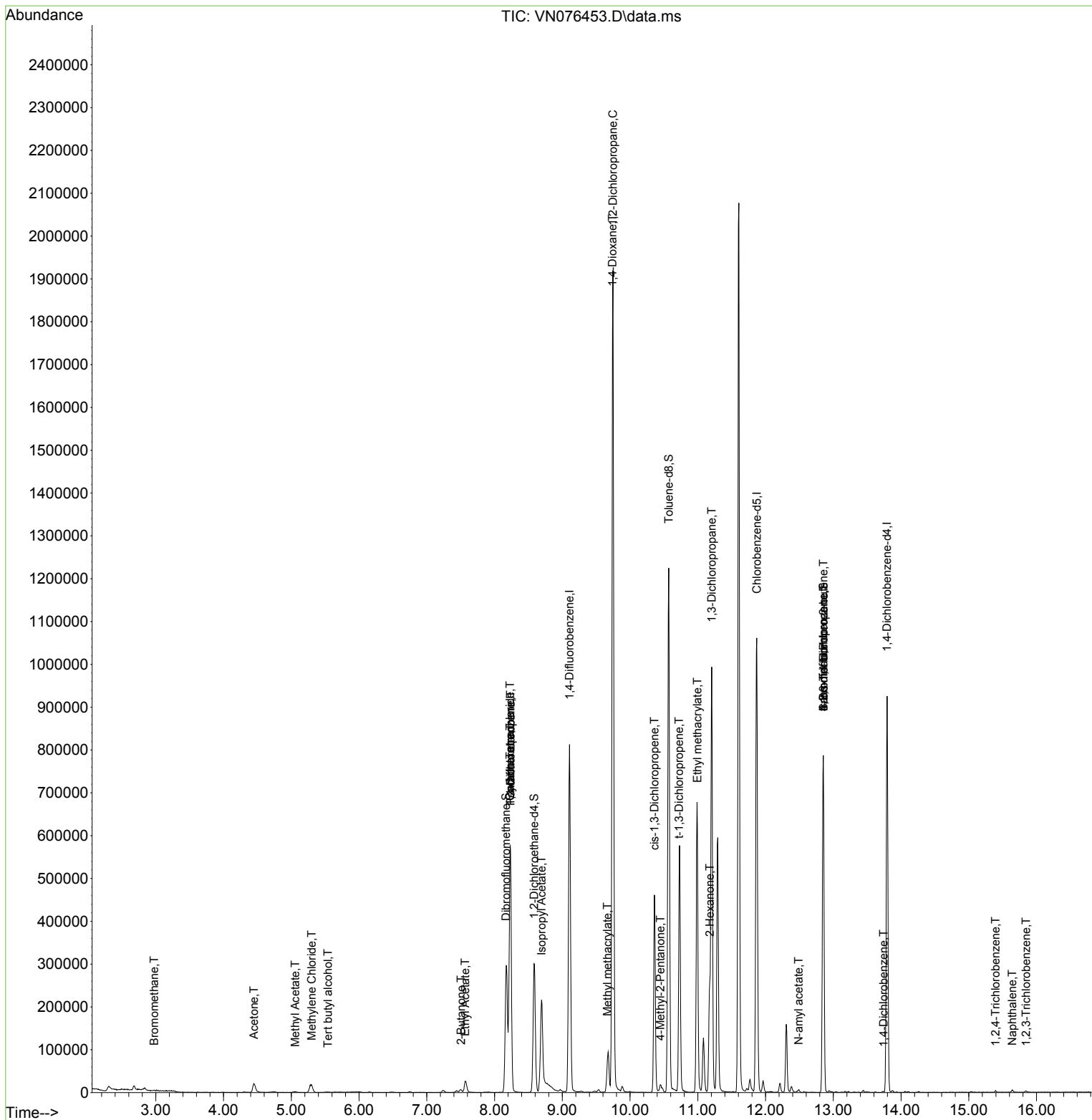
Quant Time: Jan 31 00:38:17 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011623W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 17 03:59:22 2023
 Response via : Initial Calibration

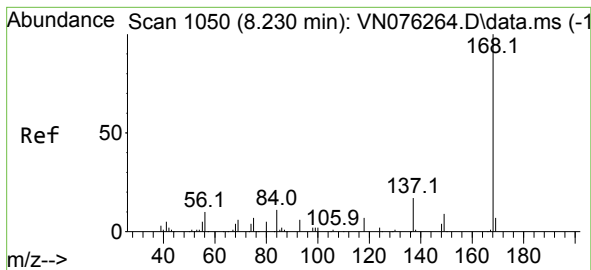
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.235	168	433774	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	718515	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	638203	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	248936	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	257138	52.943	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.880%			
35) Dibromofluoromethane	8.171	113	215831	48.020	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.040%			
50) Toluene-d8	10.571	98	850309	51.226	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.460%			
62) 4-Bromofluorobenzene	12.853	95	269512	49.736	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 99.480%			
Target Compounds						Qvalue
5) Bromomethane	2.977	94	1037	0.224	ug/l	89
11) Tert butyl alcohol	5.541	59	1462	2.250	ug/l #	72
16) Acetone	4.447	43	38638	24.750	ug/l	96
18) Methyl Acetate	5.059	43	3378	0.640	ug/l #	73
20) Methylene Chloride	5.300	84	15539	2.804	ug/l	97
25) 2-Butanone	7.506	43	10246	4.309	ug/l	96
31) Cyclohexane	8.230	56	8482	1.137	ug/l #	12
36) 1,1-Dichloropropene	8.235	75	34097	5.339	ug/l #	48
37) Ethyl Acetate	7.565	43	40061	7.851	ug/l	98
38) Carbon Tetrachloride	8.230	117	44835	6.295	ug/l #	17
43) Isopropyl Acetate	8.694	43	261969	31.435	ug/l #	81
45) 1,2-Dichloropropane	9.747	63	2653	0.580	ug/l #	42
48) Methyl methacrylate	9.665	41	5808	1.472	ug/l #	40
49) 1,4-Dioxane	9.741	88	473	5.682	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	17993	3.678	ug/l #	73
53) t-1,3-Dichloropropene	10.723	75	1476	0.231	ug/l #	78
54) cis-1,3-Dichloropropene	10.359	75	86823	11.824	ug/l #	65
56) Ethyl methacrylate	10.994	69	2826	0.448	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	11415	1.439	ug/l #	42
59) 2-Hexanone	11.176	43	179851	50.731	ug/l #	21
71) Bromoform	12.853	173	1838	0.507	ug/l #	1
74) N-amyl acetate	12.488	43	4325	0.781	ug/l #	46
76) 1,2,3-Trichloropropane	12.853	75	143976	31.395	ug/l #	1
77) Bromobenzene	12.982	156	94	Below Cal	#	1
81) trans-1,4-Dichloro-2-b...	12.853	75	143976	96.230	ug/l #	11
88) 1,4-Dichlorobenzene	13.741	146	1032	0.220	ug/l	86
93) 1,2,4-Trichlorobenzene	15.394	180	1479	1.635	ug/l	79
95) Naphthalene	15.641	128	5460	2.246	ug/l	98
96) 1,2,3-Trichlorobenzene	15.847	180	1357	1.472	ug/l	79

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

Quant Time: Jan 31 00:38:17 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

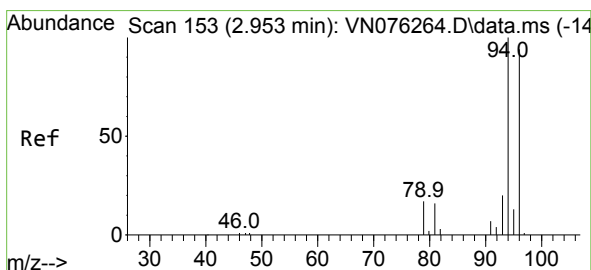
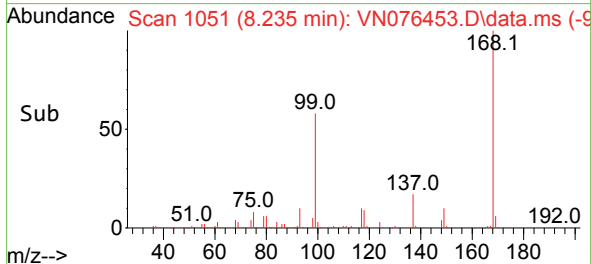
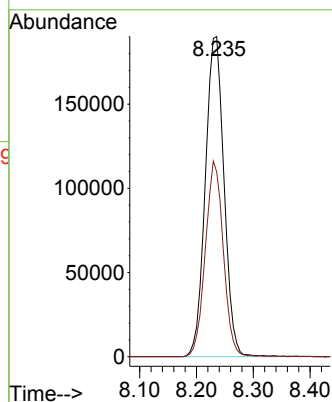
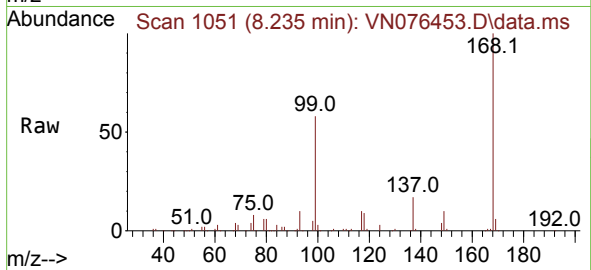




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1051
Delta R.T. 0.005 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

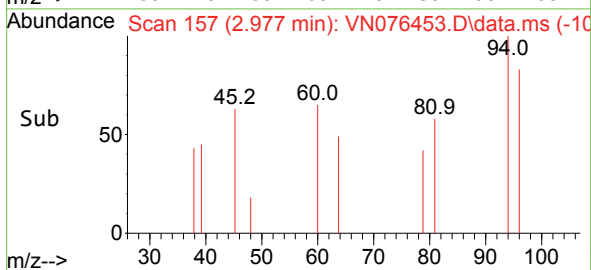
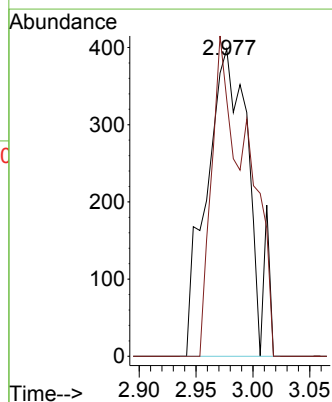
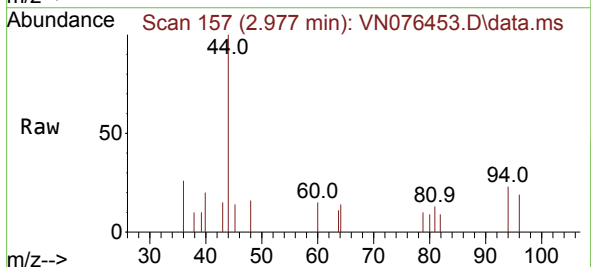
Instrument :
MSVOA_N
ClientSampleId :

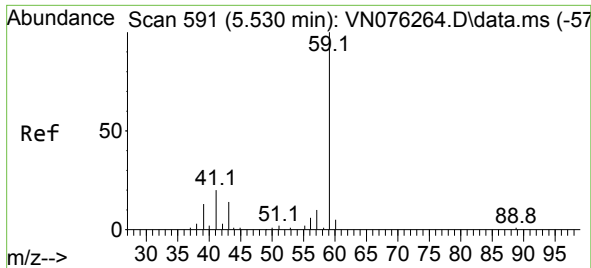
Tgt Ion:168 Resp: 433774
Ion Ratio Lower Upper
168 100
99 57.8 41.6 62.4



#5
Bromomethane
Concen: 0.224 ug/l
RT: 2.977 min Scan# 157
Delta R.T. 0.024 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

Tgt Ion: 94 Resp: 1037
Ion Ratio Lower Upper
94 100
96 83.4 75.1 112.7

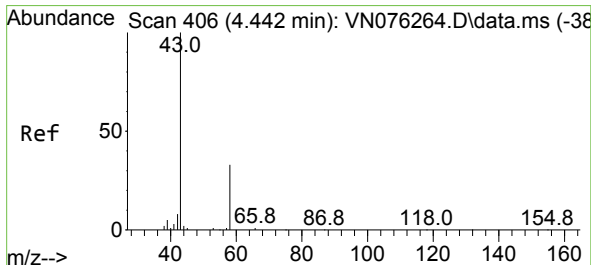
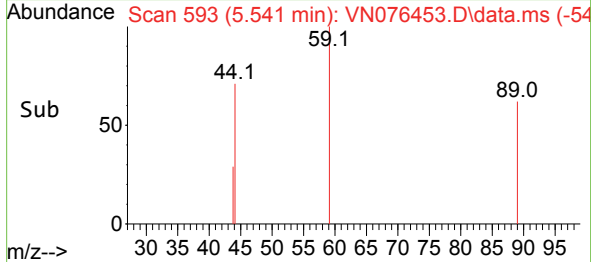
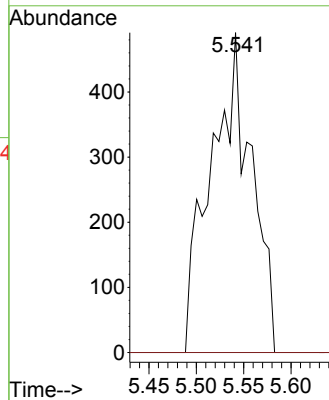
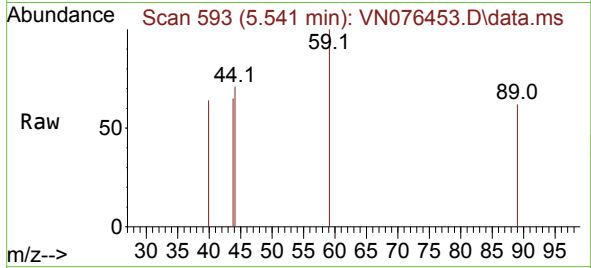




#11
Tert butyl alcohol
Concen: 2.250 ug/l
RT: 5.541 min Scan# 591
Delta R.T. 0.011 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

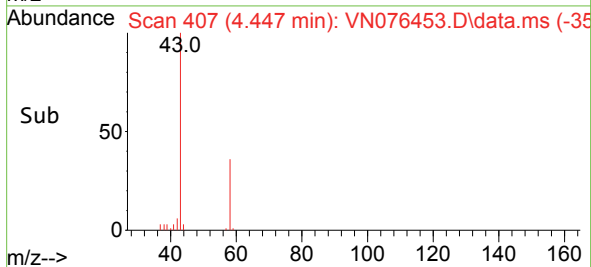
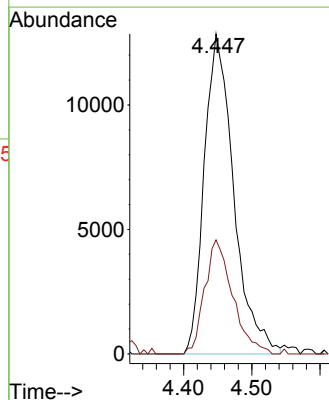
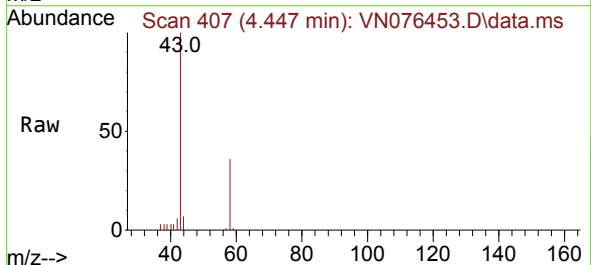
Instrument :
MSVOA_N
ClientSampleId :

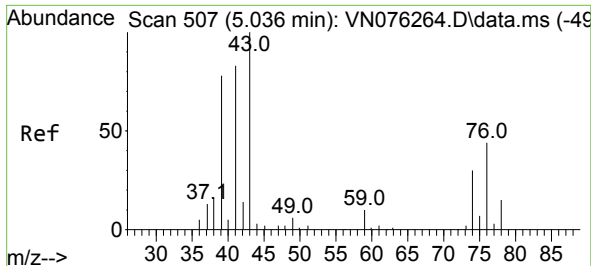
Tgt Ion: 59 Resp: 1462
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#16
Acetone
Concen: 24.750 ug/l
RT: 4.447 min Scan# 407
Delta R.T. 0.005 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

Tgt Ion: 43 Resp: 38638
Ion Ratio Lower Upper
43 100
58 35.7 26.7 40.1

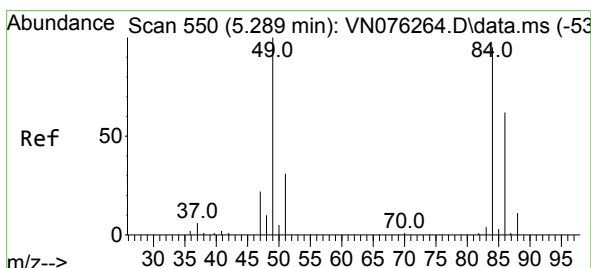
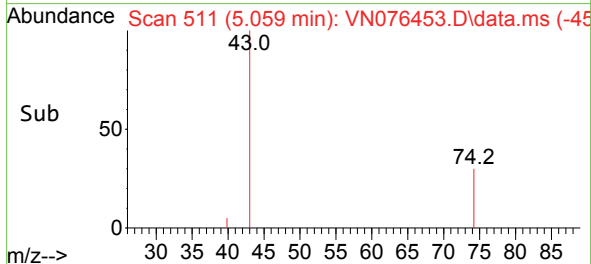
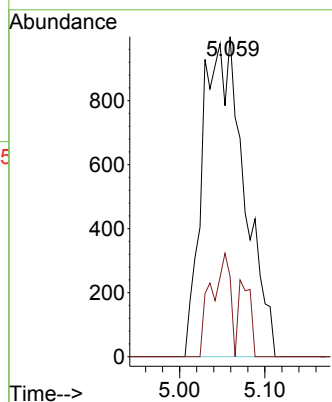
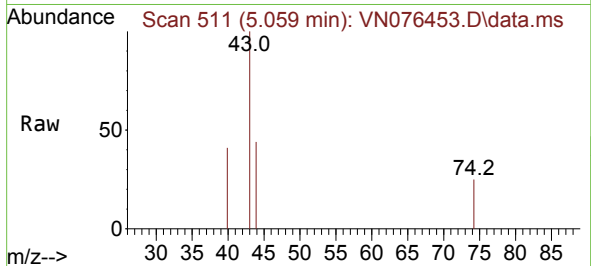




#18
Methyl Acetate
Concen: 0.640 ug/l
RT: 5.059 min Scan# 511
Delta R.T. 0.023 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

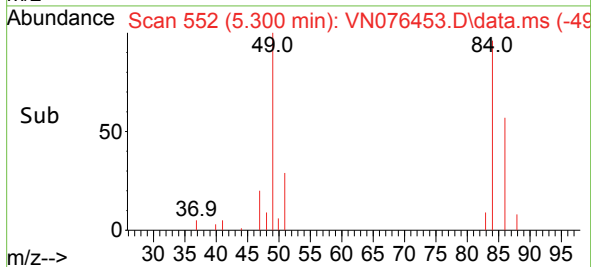
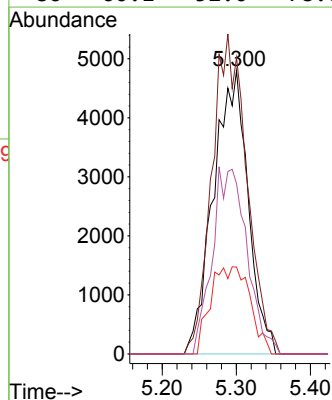
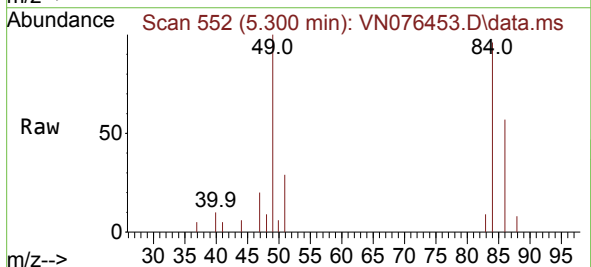
Instrument :
MSVOA_N
ClientSampleId :

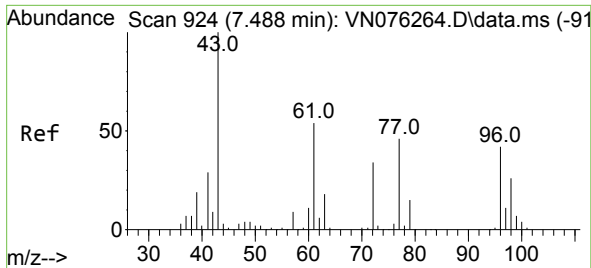
Tgt Ion: 43 Resp: 3378
Ion Ratio Lower Upper
43 100
74 14.9 23.3 34.9#



#20
Methylene Chloride
Concen: 2.804 ug/l
RT: 5.300 min Scan# 552
Delta R.T. 0.011 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

Tgt Ion: 84 Resp: 15539
Ion Ratio Lower Upper
84 100
49 104.6 84.5 126.7
51 30.6 26.0 39.0
86 60.1 52.0 78.0

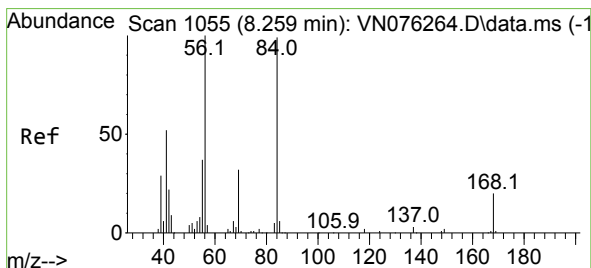
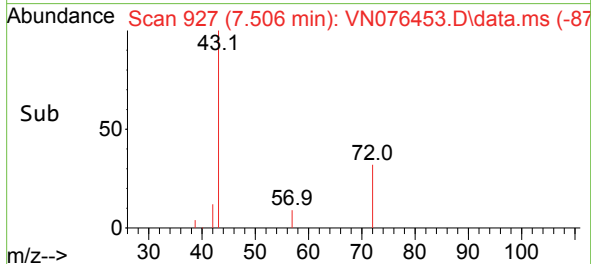
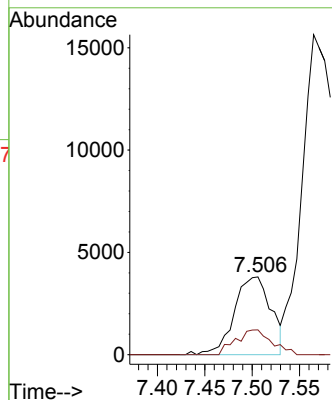
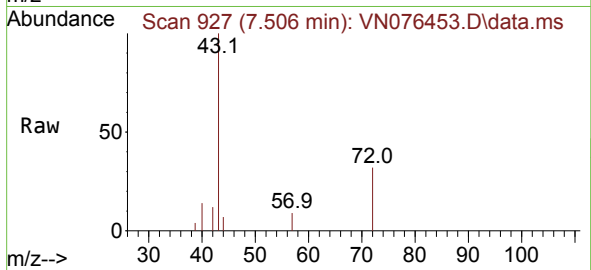




#25
2-Butanone
Concen: 4.309 ug/l
RT: 7.506 min Scan# 91
Delta R.T. 0.018 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

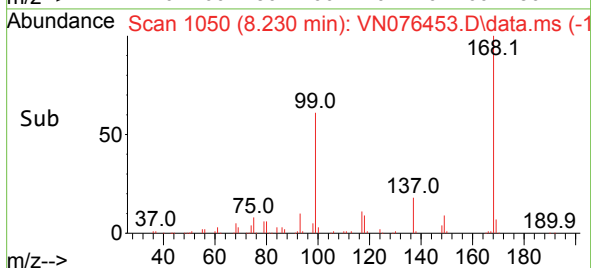
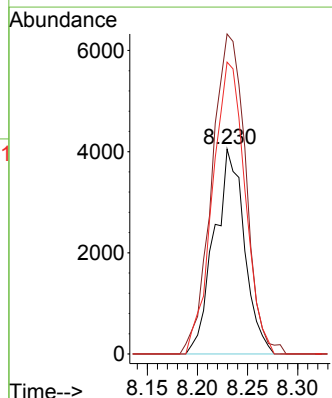
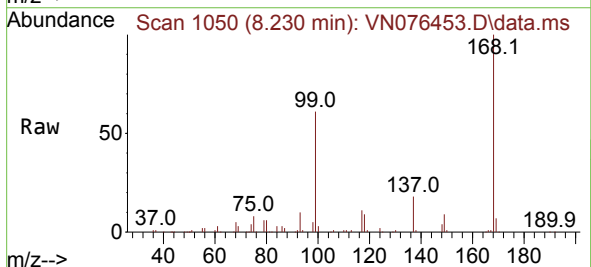
Instrument :
MSVOA_N
ClientSampleId :

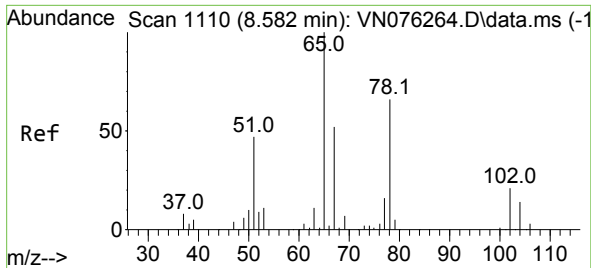
Tgt Ion: 43 Resp: 10246
Ion Ratio Lower Upper
43 100
72 31.9 27.4 41.2



#31
Cyclohexane
Concen: 1.137 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.029 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

Tgt Ion: 56 Resp: 8482
Ion Ratio Lower Upper
56 100
69 156.2 25.8 38.8#
84 142.5 79.0 118.4#





#33

1,2-Dichloroethane-d4

Concen: 52.943 ug/l

RT: 8.582 min Scan# 1110

Delta R.T. 0.000 min

Lab File: VN076453.D

Acq: 30 Jan 2023 13:41

Instrument :

MSVOA_N

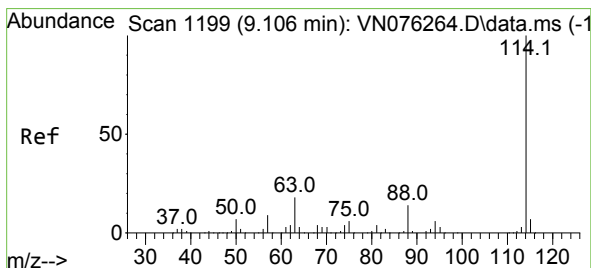
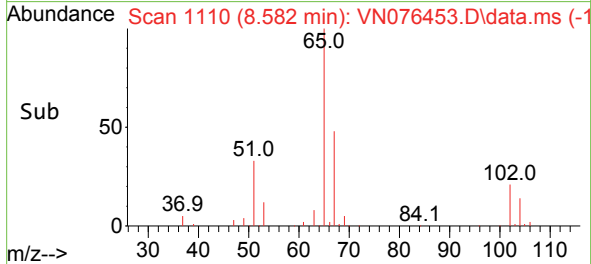
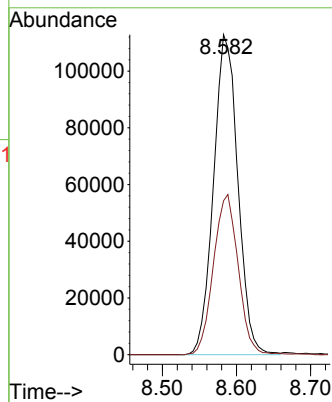
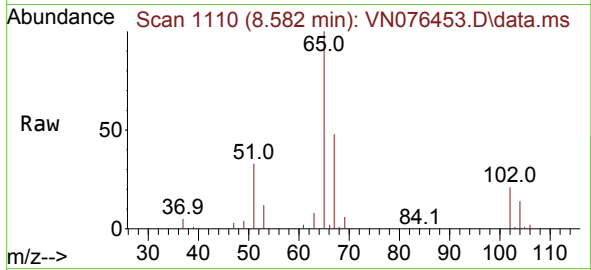
ClientSampleId :

Tgt Ion: 65 Resp: 257138

Ion Ratio Lower Upper

65 100

67 51.0 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: VN076453.D

Acq: 30 Jan 2023 13:41

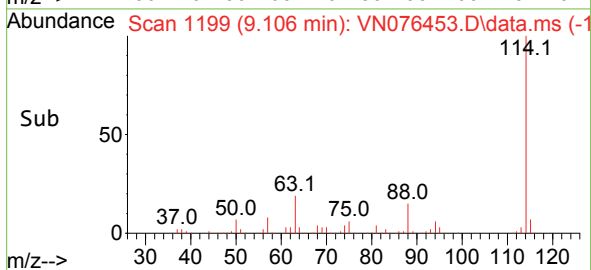
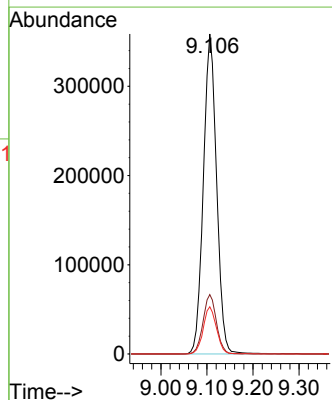
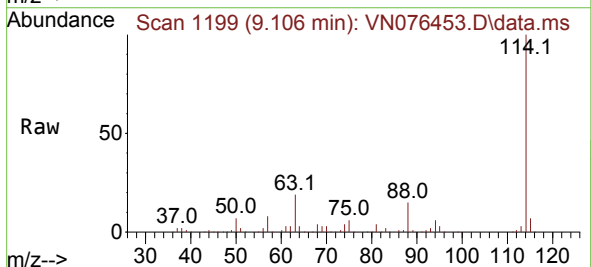
Tgt Ion: 114 Resp: 718515

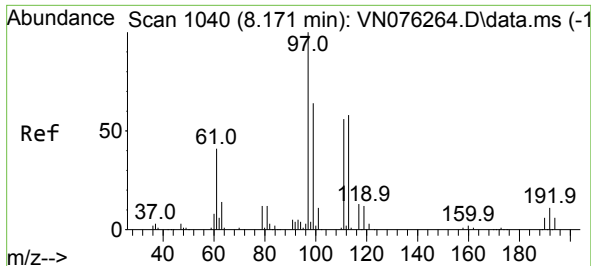
Ion Ratio Lower Upper

114 100

63 18.6 0.0 35.8

88 14.8 0.0 28.0





#35

Dibromofluoromethane

Concen: 48.020 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. -0.000 min

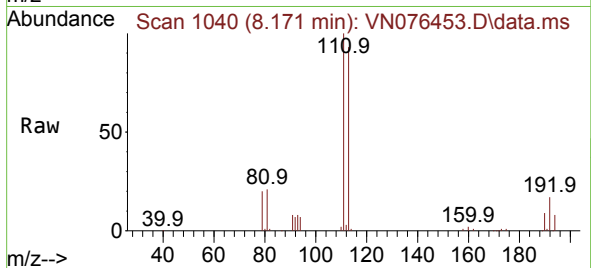
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Acq: 30 Jan 2023 13:41

Instrument :

MSVOA_N

ClientSampleId :



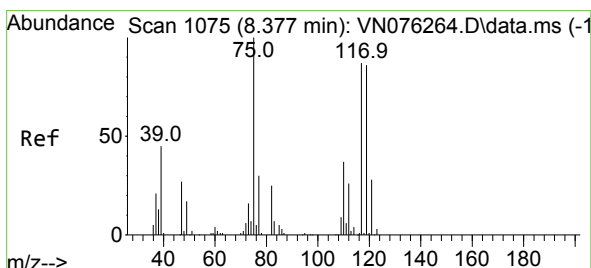
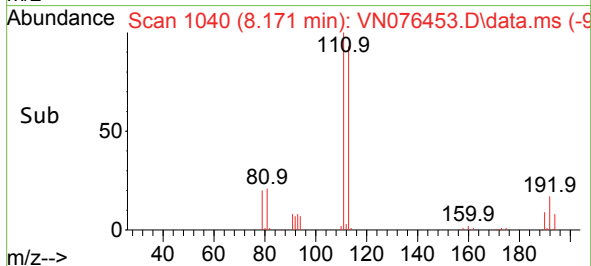
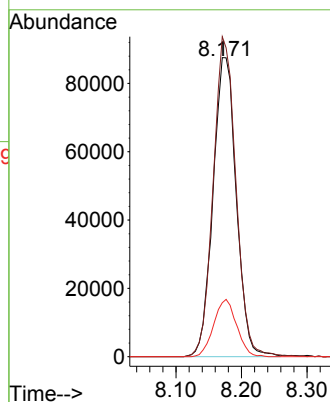
Tgt Ion:113 Resp: 215831

Ion Ratio Lower Upper

113 100

111 104.4 82.7 124.1

192 18.9 15.6 23.4



#36

1,1-Dichloropropene

Concen: 5.339 ug/l

RT: 8.235 min Scan# 1051

Delta R.T. -0.142 min

Lab File: VN076453.D

Acq: 30 Jan 2023 13:41

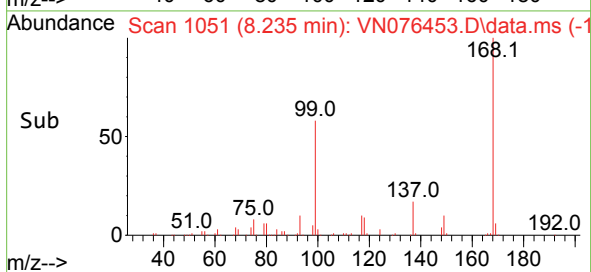
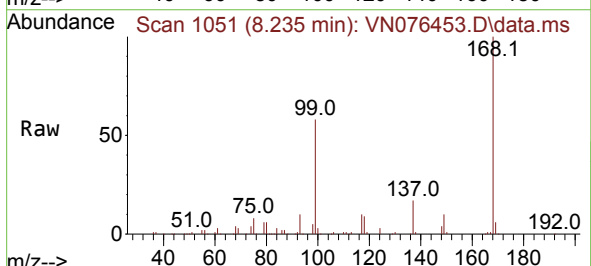
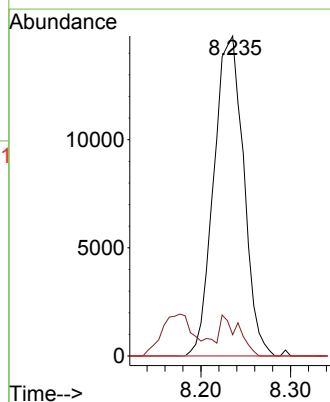
Tgt Ion: 75 Resp: 34097

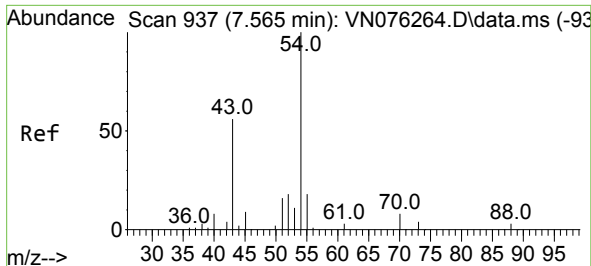
Ion Ratio Lower Upper

75 100

110 8.6 18.8 56.3#

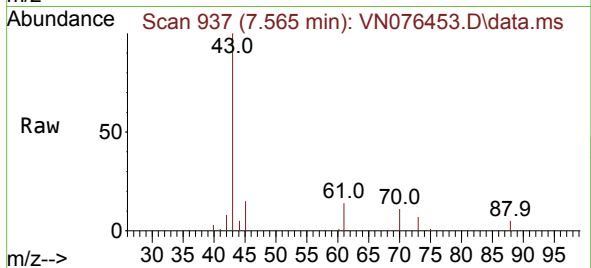
77 0.0 25.0 37.4#



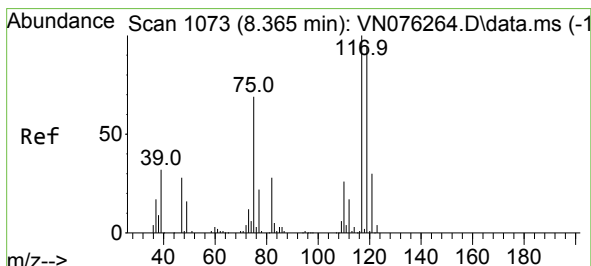
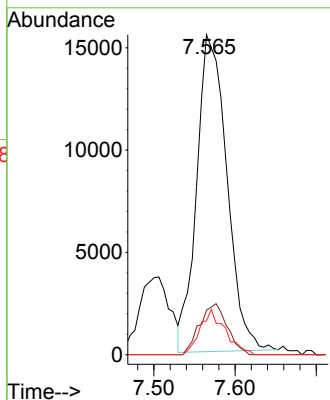
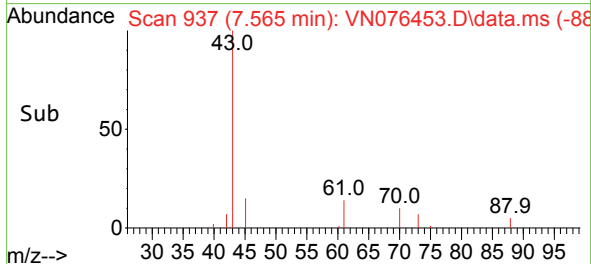


#37
Ethyl Acetate
Concen: 7.851 ug/l
RT: 7.565 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

Instrument :
MSVOA_N
ClientSampleId :

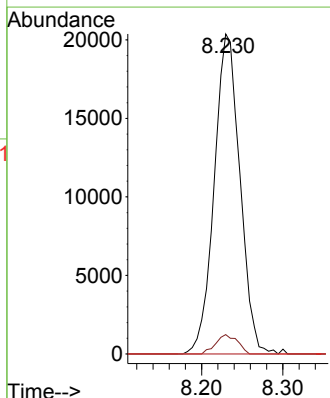
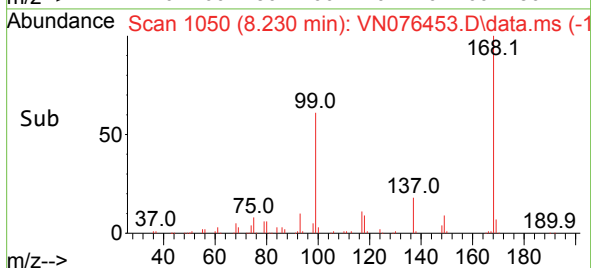
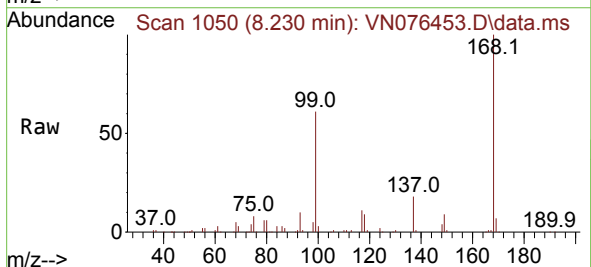


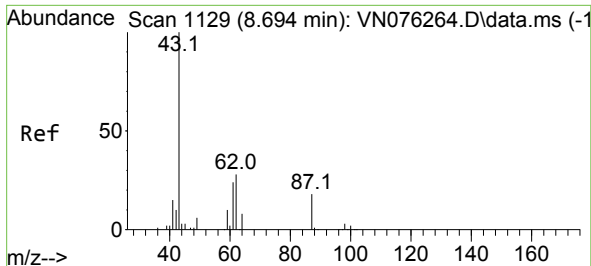
Tgt Ion: 43 Resp: 40061
Ion Ratio Lower Upper
43 100
61 14.7 11.1 16.7
70 11.8 10.0 15.0



#38
Carbon Tetrachloride
Concen: 6.295 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.135 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

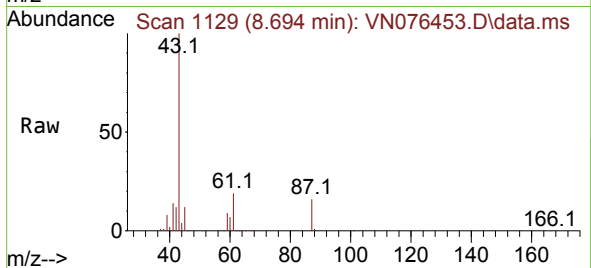
Tgt Ion: 117 Resp: 44835
Ion Ratio Lower Upper
117 100
119 6.1 75.4 113.0#
121 0.0 24.2 36.2#



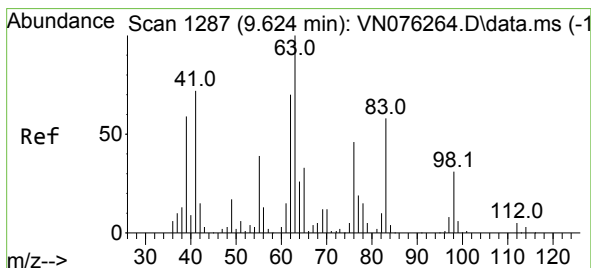
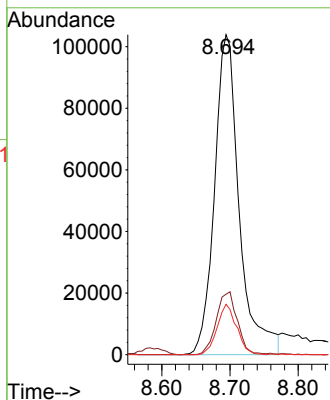
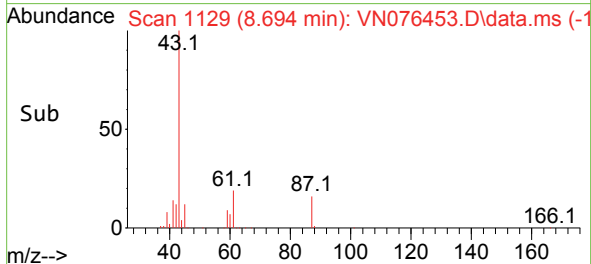


#43
Isopropyl Acetate
Concen: 31.435 ug/l
RT: 8.694 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

Instrument :
MSVOA_N
ClientSampleId :

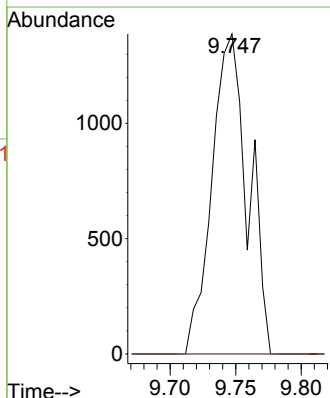
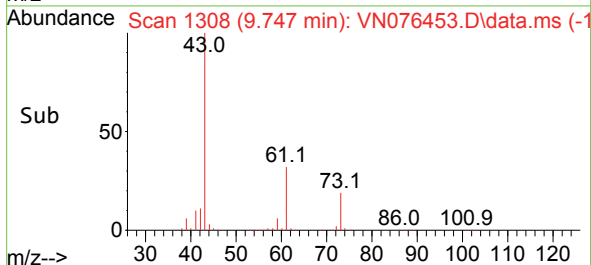
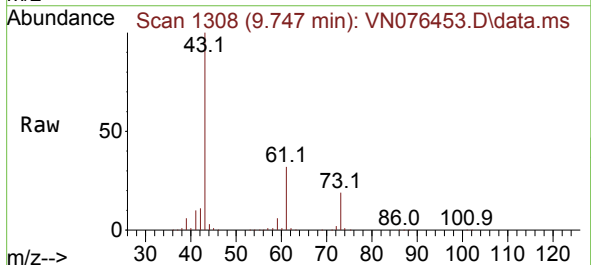


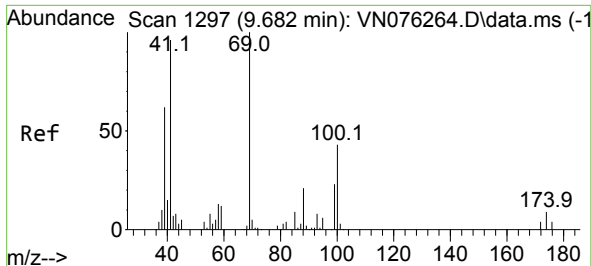
Tgt Ion: 43 Resp: 261969
Ion Ratio Lower Upper
43 100
61 16.9 23.5 35.3#
87 12.4 13.8 20.6#



#45
1,2-Dichloropropane
Concen: 0.580 ug/l
RT: 9.747 min Scan# 1308
Delta R.T. 0.123 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

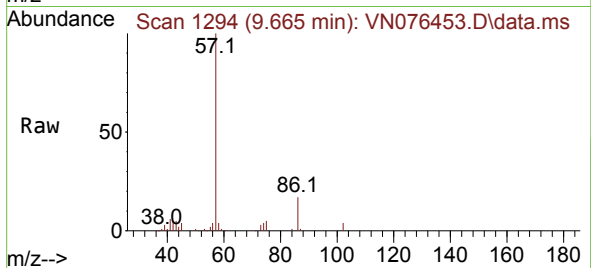
Tgt Ion: 63 Resp: 2653
Ion Ratio Lower Upper
63 100
65 0.0 26.4 39.6#



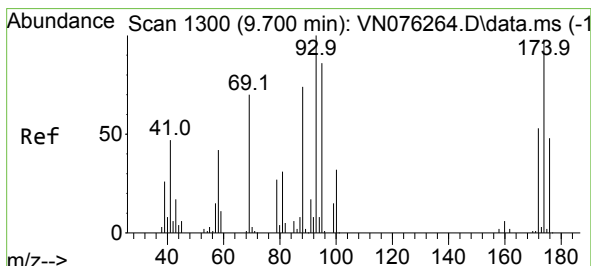
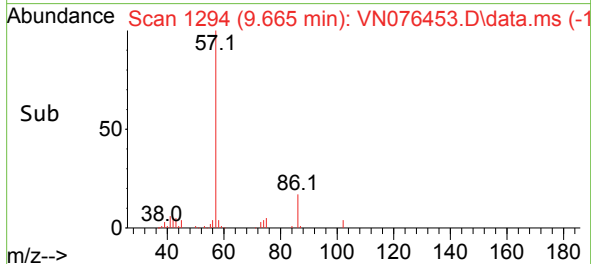
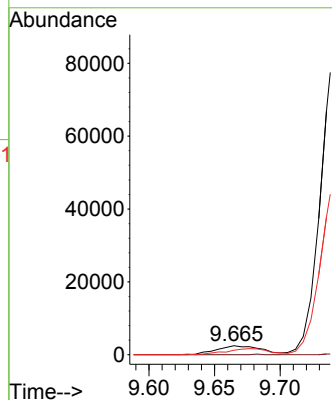


#48
Methyl methacrylate
Concen: 1.472 ug/l
RT: 9.665 min Scan# 11
Delta R.T. -0.017 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

Instrument :
MSVOA_N
ClientSampleId :

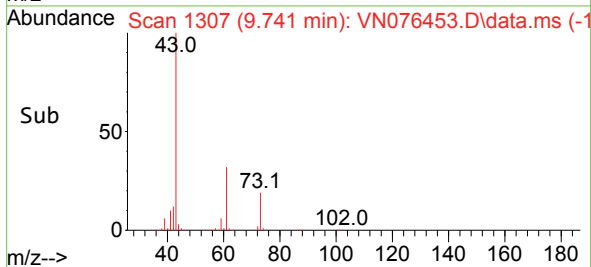
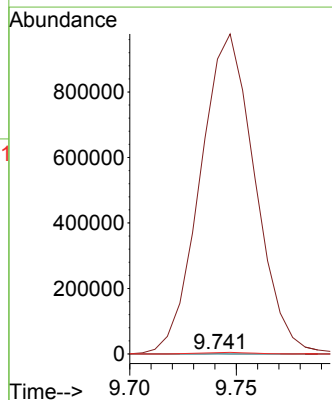
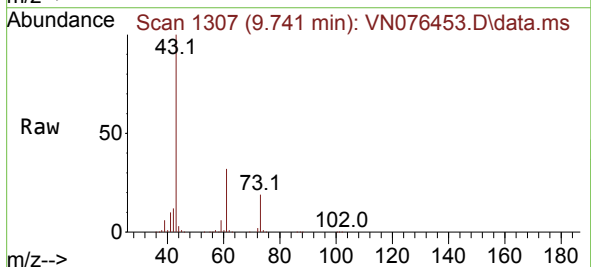


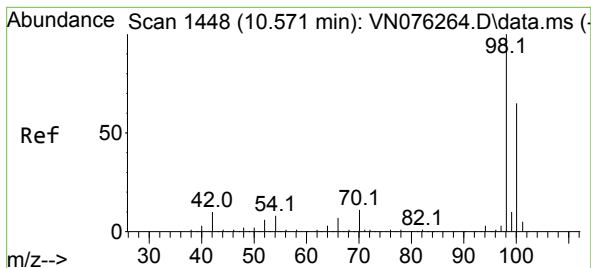
Tgt Ion: 41 Resp: 5808
Ion Ratio Lower Upper
41 100
69 1.0 80.8 121.2#
39 66.4 54.4 81.6



#49
1,4-Dioxane
Concen: 5.682 ug/l
RT: 9.741 min Scan# 1307
Delta R.T. 0.041 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

Tgt Ion: 88 Resp: 473
Ion Ratio Lower Upper
88 100
43 372693.0 18.1 27.1#
58 1698.3 46.5 69.7#

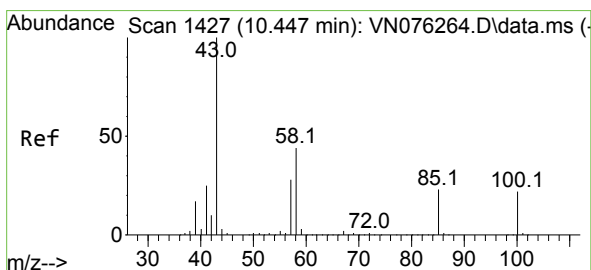
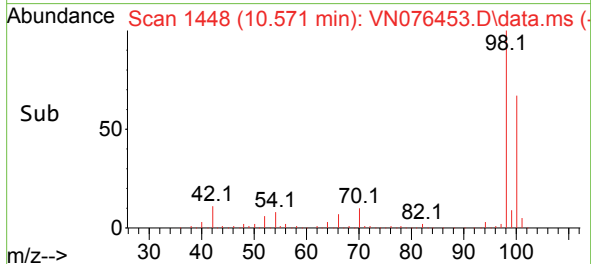
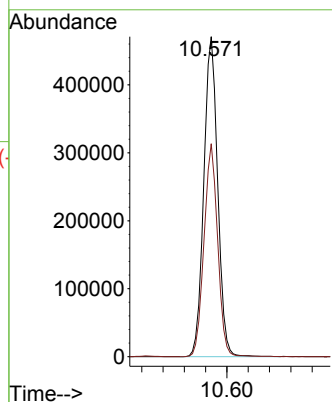
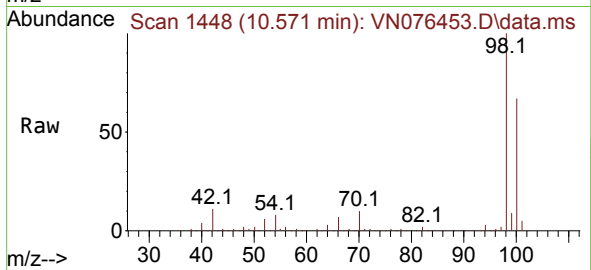




#50
Toluene-d8
Concen: 51.226 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

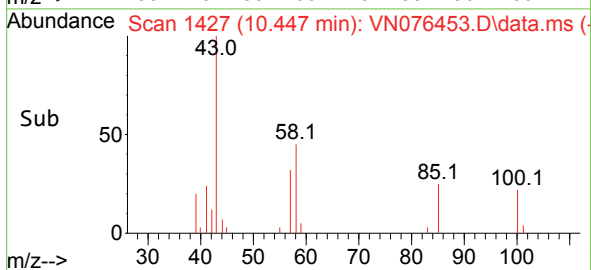
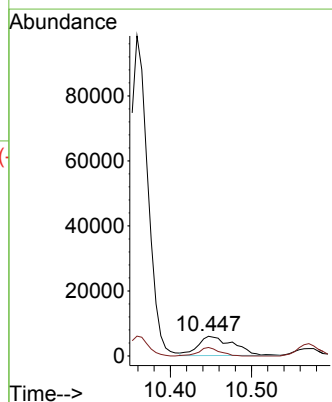
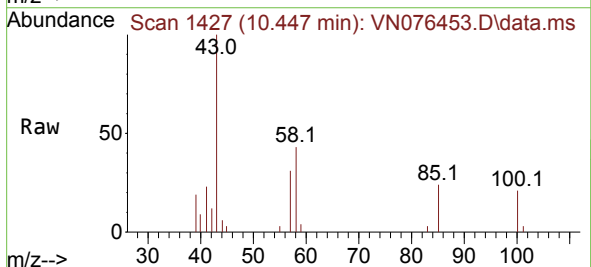
Instrument :
MSVOA_N
ClientSampleId :

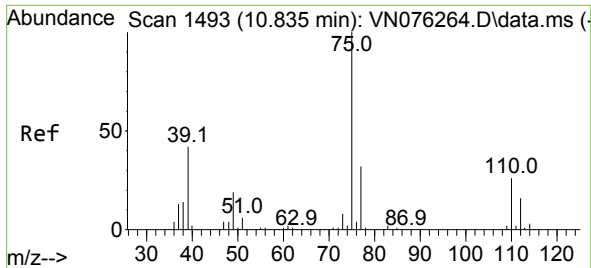
Tgt Ion: 98 Resp: 850309
Ion Ratio Lower Upper
98 100
100 65.5 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 3.678 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. 0.000 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

Tgt Ion: 43 Resp: 17993
Ion Ratio Lower Upper
43 100
58 26.1 35.1 52.7#

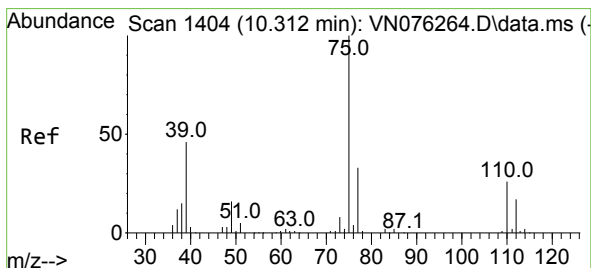
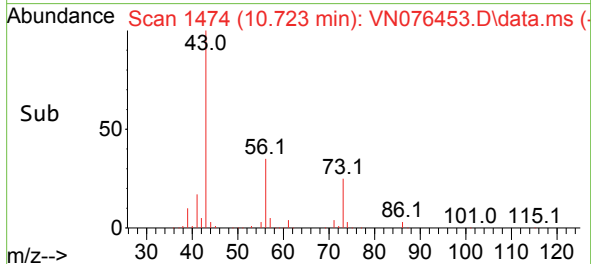
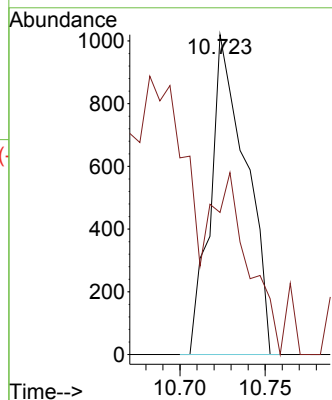
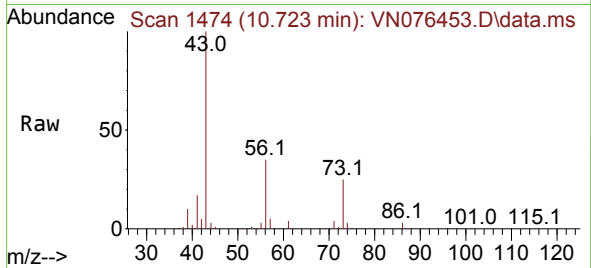




#53
 t-1,3-Dichloropropene
 Concen: 0.231 ug/l
 RT: 10.723 min Scan# 1474
 Delta R.T. -0.112 min
 Lab File: VN076453.D
 Acq: 30 Jan 2023 13:41

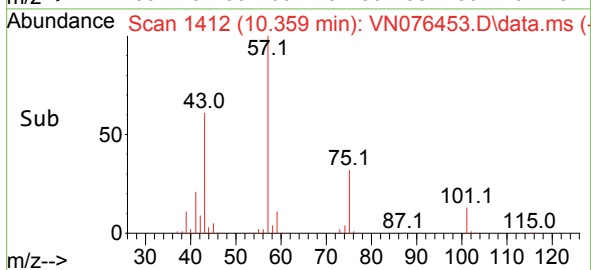
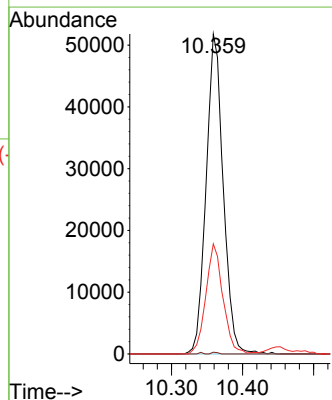
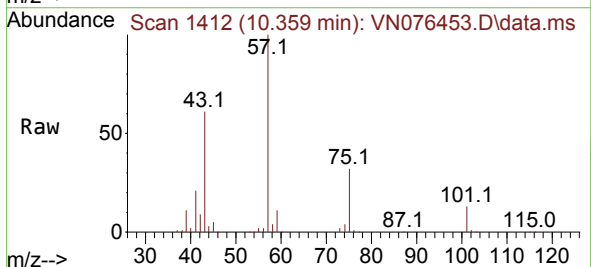
Instrument :
 MSVOA_N
 ClientSampleId :

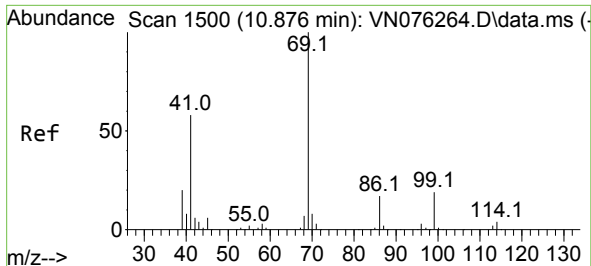
Tgt Ion: 75 Resp: 1476
 Ion Ratio Lower Upper
 75 100
 77 44.4 25.8 38.6#



#54
 cis-1,3-Dichloropropene
 Concen: 11.824 ug/l
 RT: 10.359 min Scan# 1412
 Delta R.T. 0.047 min
 Lab File: VN076453.D
 Acq: 30 Jan 2023 13:41

Tgt Ion: 75 Resp: 86823
 Ion Ratio Lower Upper
 75 100
 77 0.5 26.5 39.7#
 39 34.4 37.1 55.7#

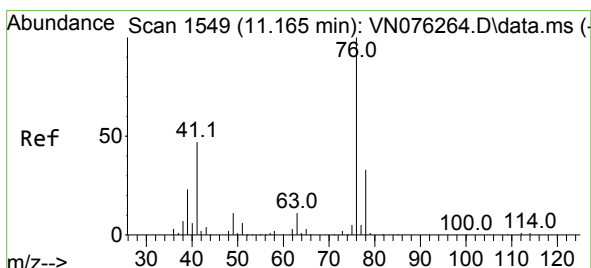
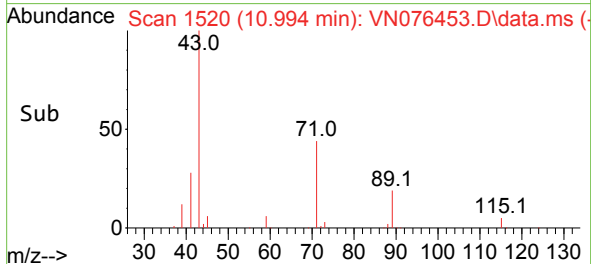
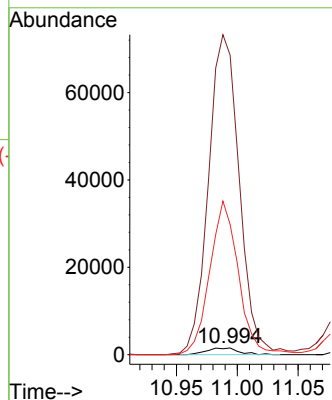
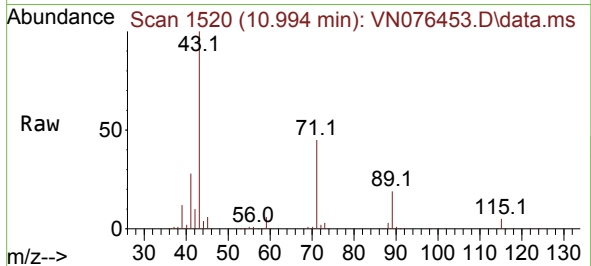




#56
Ethyl methacrylate
Concen: 0.448 ug/l
RT: 10.994 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

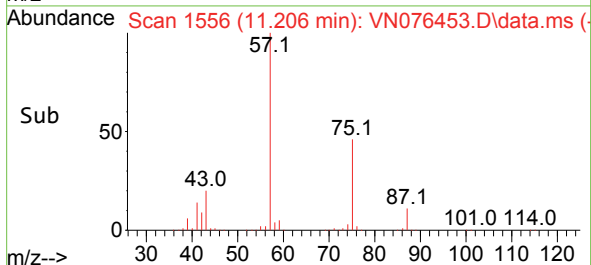
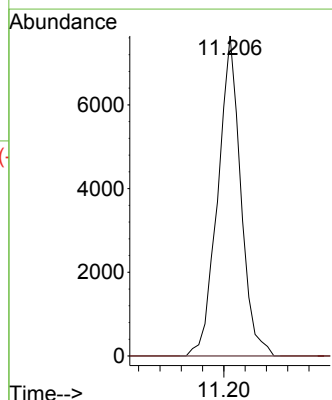
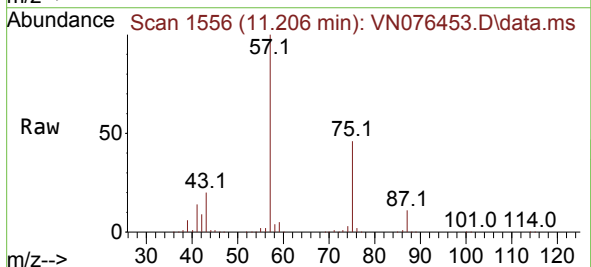
Instrument :
MSVOA_N
ClientSampleId :

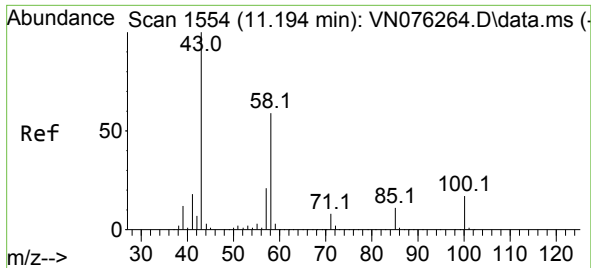
Tgt Ion: 69 Resp: 2826
Ion Ratio Lower Upper
69 100
41 4585.0 45.3 67.9#
39 2043.4 29.3 43.9#



#57
1,3-Dichloropropane
Concen: 1.439 ug/l
RT: 11.206 min Scan# 1556
Delta R.T. 0.041 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

Tgt Ion: 76 Resp: 11415
Ion Ratio Lower Upper
76 100
78 0.0 26.4 39.6#

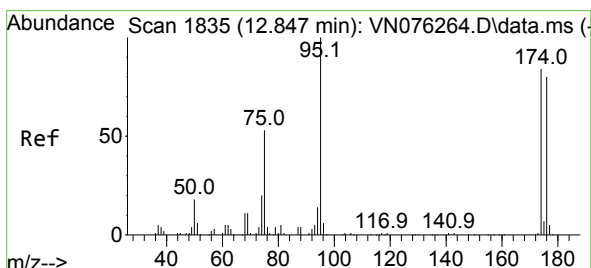
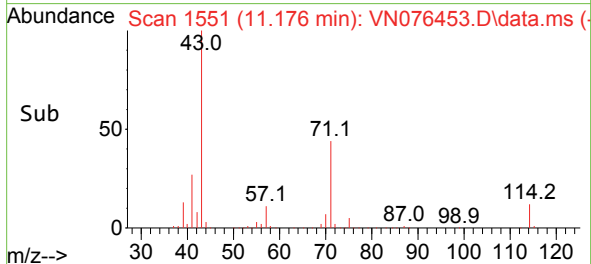
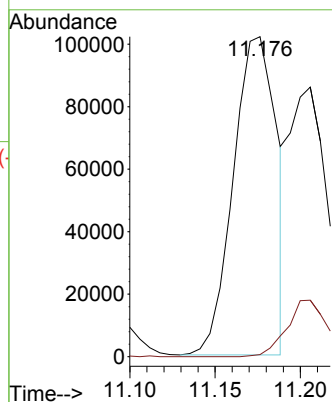
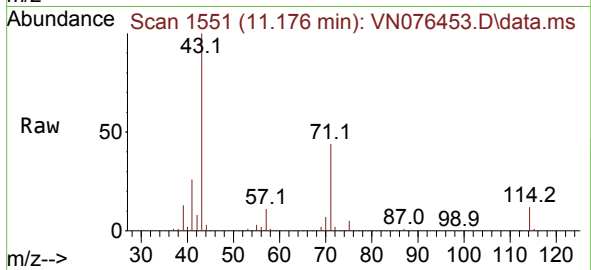




#59
2-Hexanone
Concen: 50.731 ug/l
RT: 11.176 min Scan# 11551
Delta R.T. -0.018 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

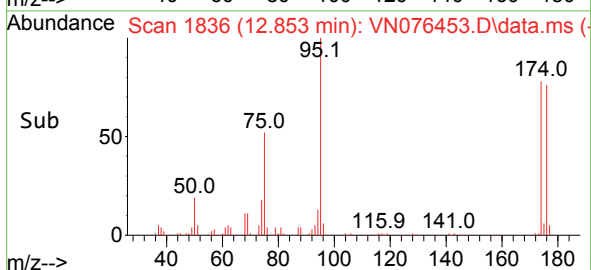
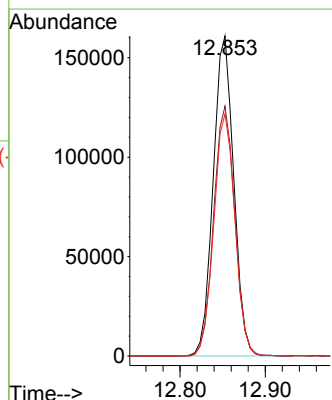
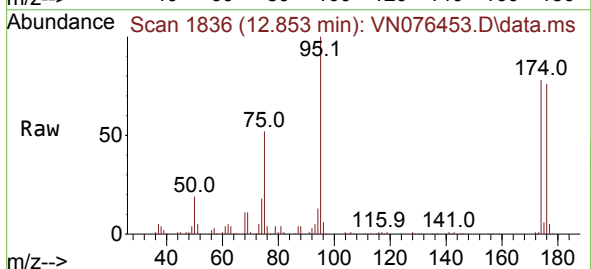
Instrument :
MSVOA_N
ClientSampleId :

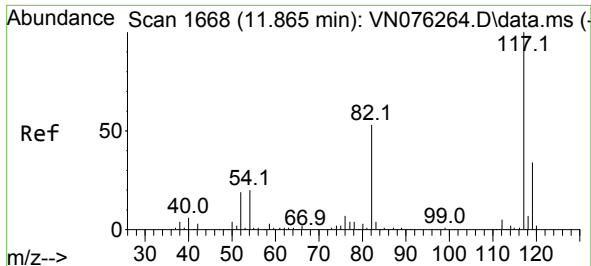
Tgt Ion: 43 Resp: 179851
Ion Ratio Lower Upper
43 100
58 0.0 30.1 90.3#



#62
4-Bromofluorobenzene
Concen: 49.736 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

Tgt Ion: 95 Resp: 269512
Ion Ratio Lower Upper
95 100
174 80.6 0.0 174.6
176 77.5 0.0 167.8

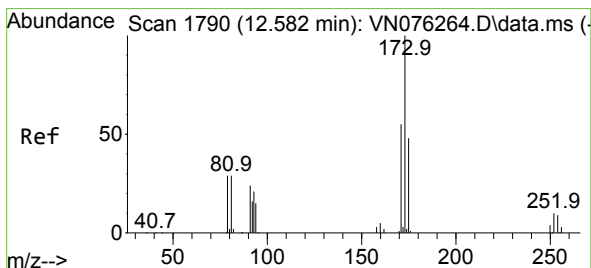
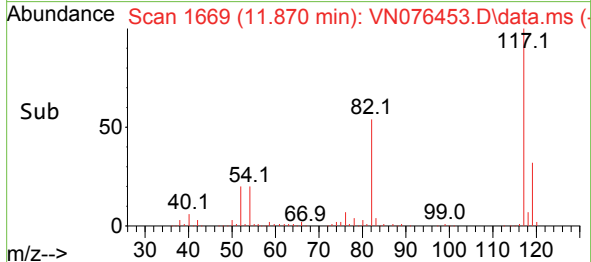
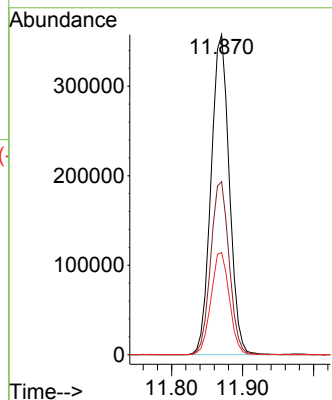
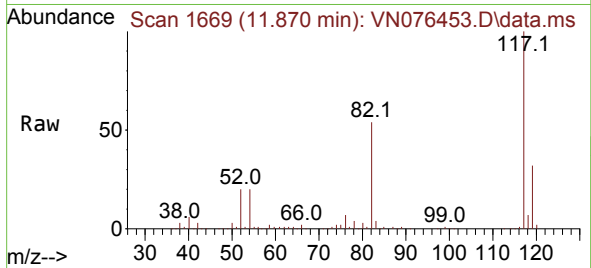




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 11
Delta R.T. 0.005 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

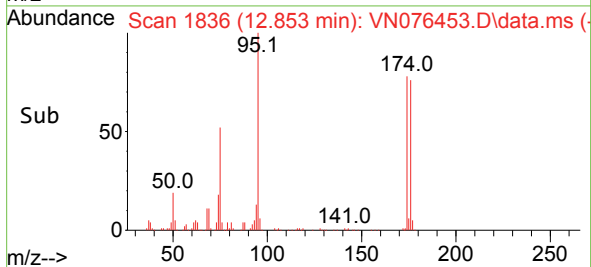
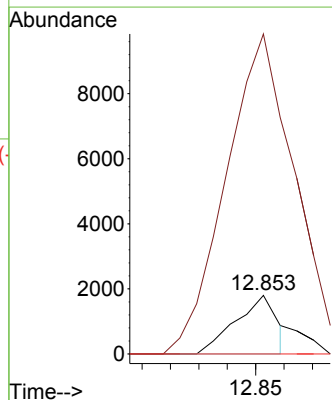
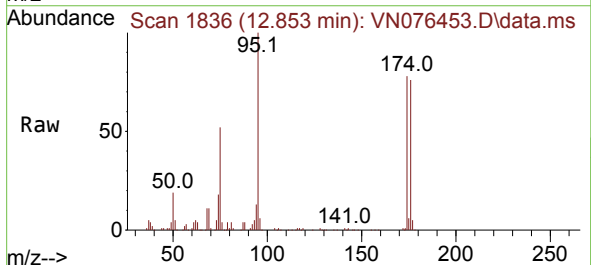
Instrument :
MSVOA_N
ClientSampleId :

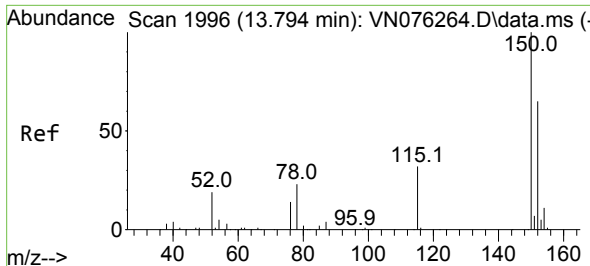
Tgt Ion:117 Resp: 638203
Ion Ratio Lower Upper
117 100
82 54.1 42.2 63.2
119 31.9 26.9 40.3



#71
Bromoform
Concen: 0.507 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.271 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

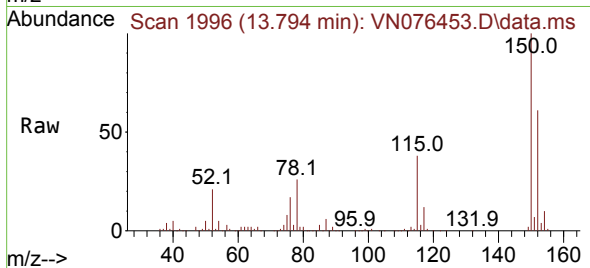
Tgt Ion:173 Resp: 1838
Ion Ratio Lower Upper
173 100
175 714.4 24.1 72.4#
254 0.0 0.0 0.0



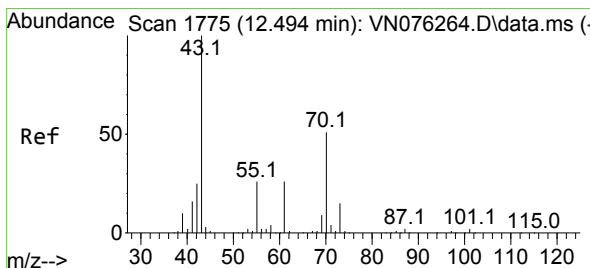
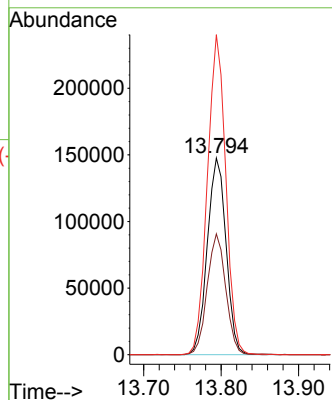
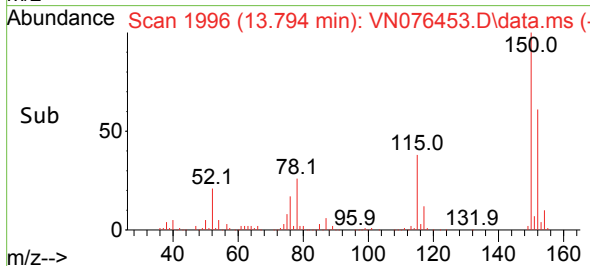


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 1996
 Delta R.T. -0.000 min
 Lab File: VN076453.D
 Acq: 30 Jan 2023 13:41

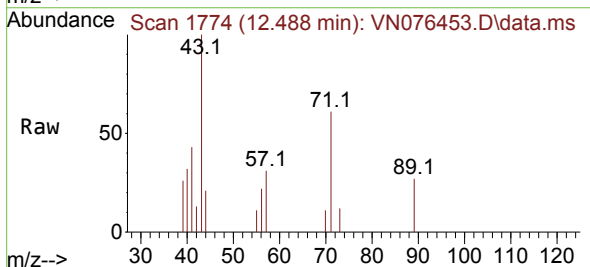
Instrument :
 MSVOA_N
 ClientSampleId :



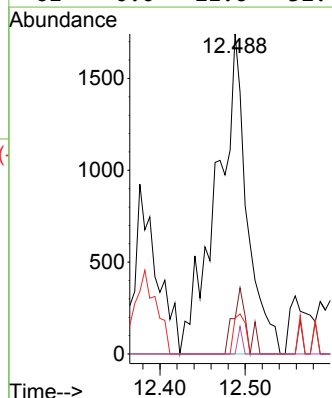
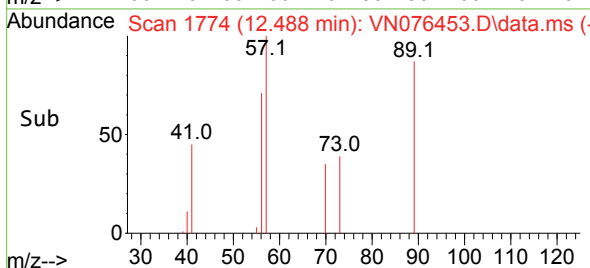
Tgt Ion:152 Resp: 248936
 Ion Ratio Lower Upper
 152 100
 115 60.7 29.6 88.9
 150 159.1 0.0 351.4

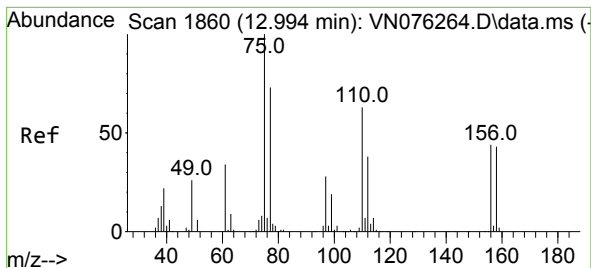


#74
 N-ethyl acetate
 Concen: 0.781 ug/l
 RT: 12.488 min Scan# 1774
 Delta R.T. -0.006 min
 Lab File: VN076453.D
 Acq: 30 Jan 2023 13:41



Tgt Ion: 43 Resp: 4325
 Ion Ratio Lower Upper
 43 100
 70 9.2 41.2 61.8#
 55 4.7 21.0 31.6#
 61 0.0 21.6 32.4#





#76

1,2,3-Trichloropropane

Concen: 31.395 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. -0.141 min

Lab File: VN076453.D

Acq: 30 Jan 2023 13:41

Instrument :

MSVOA_N

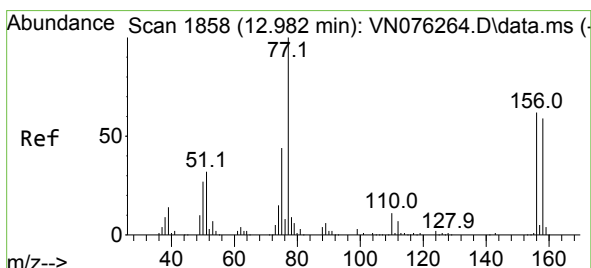
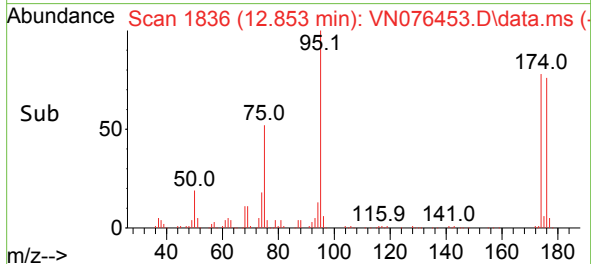
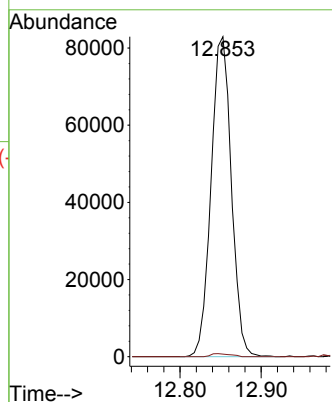
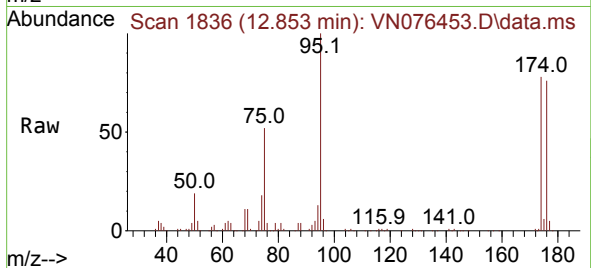
ClientSampleId :

Tgt Ion: 75 Resp: 143976

Ion Ratio Lower Upper

75 100

77 0.9 75.2 225.6#



#77

Bromobenzene

Concen: Below Cal

RT: 12.982 min Scan# 1858

Delta R.T. 0.000 min

Lab File: VN076453.D

Acq: 30 Jan 2023 13:41

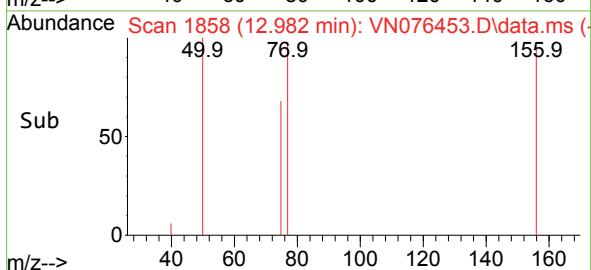
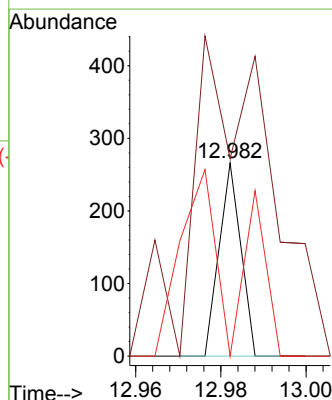
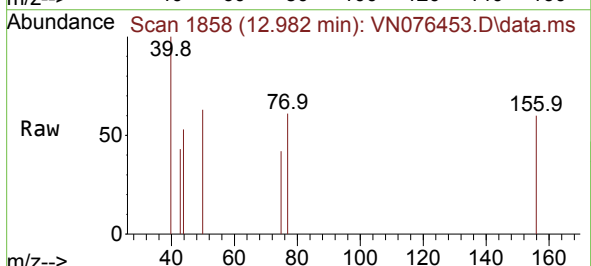
Tgt Ion:156 Resp: 94

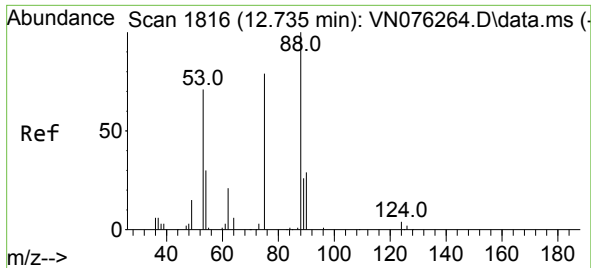
Ion Ratio Lower Upper

156 100

77 600.0 93.4 280.2#

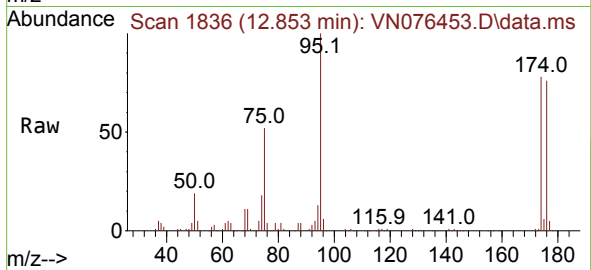
158 241.5 48.4 145.2#



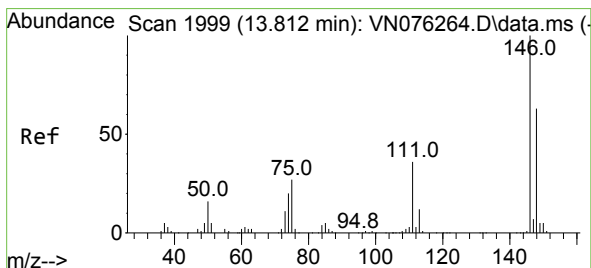
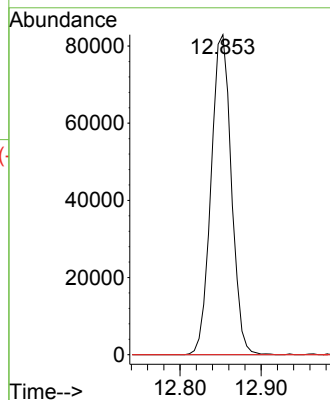
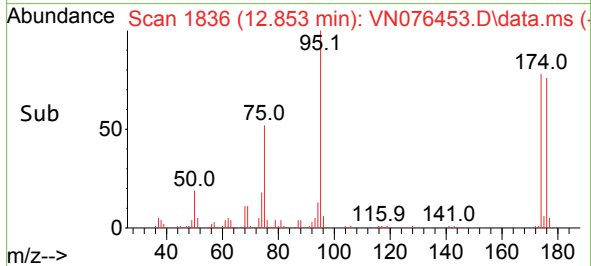


#81
trans-1,4-Dichloro-2-butene
Concen: 96.230 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.118 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

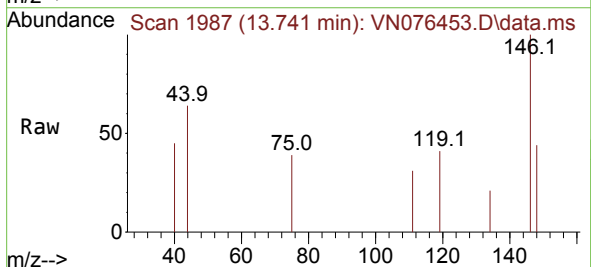
Instrument :
MSVOA_N
ClientSampleId :



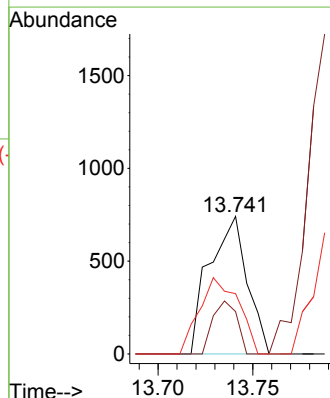
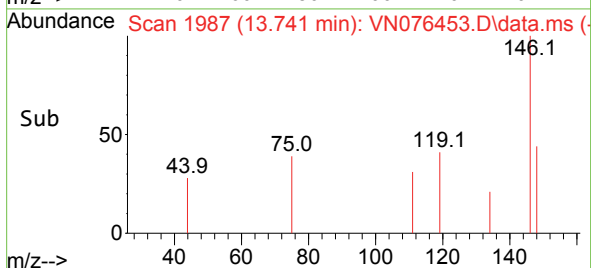
Tgt Ion: 75 Resp: 143976
Ion Ratio Lower Upper
75 100
53 0.0 75.8 113.8#
89 0.0 37.0 55.6#

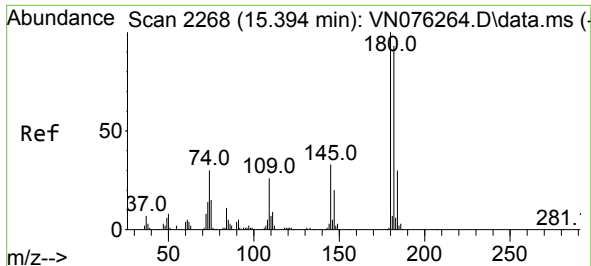


#88
1,4-Dichlorobenzene
Concen: 0.220 ug/l
RT: 13.741 min Scan# 1987
Delta R.T. -0.071 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41



Tgt Ion:146 Resp: 1032
Ion Ratio Lower Upper
146 100
111 24.6 19.1 57.5
148 57.3 31.9 95.9

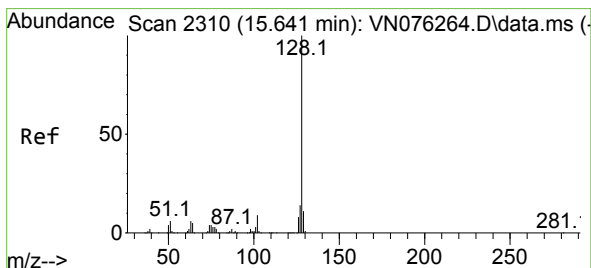
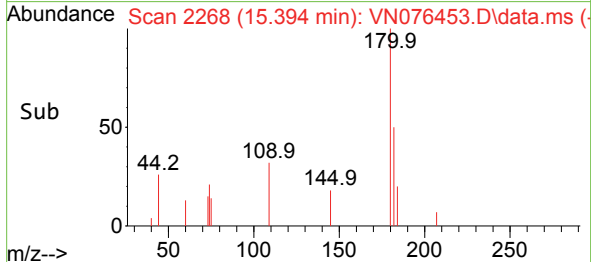
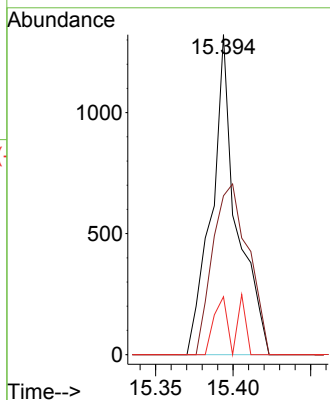
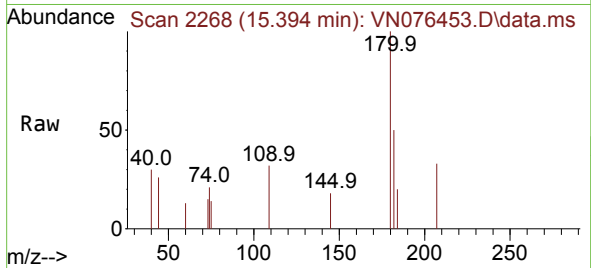




#93
1,2,4-Trichlorobenzene
Concen: 1.635 ug/l
RT: 15.394 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

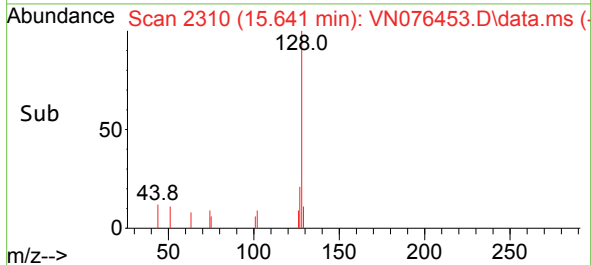
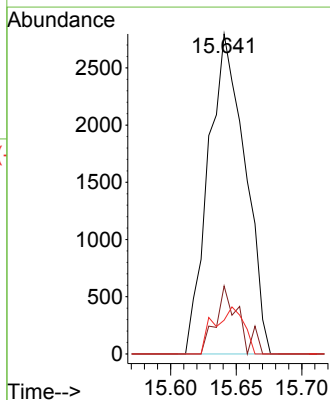
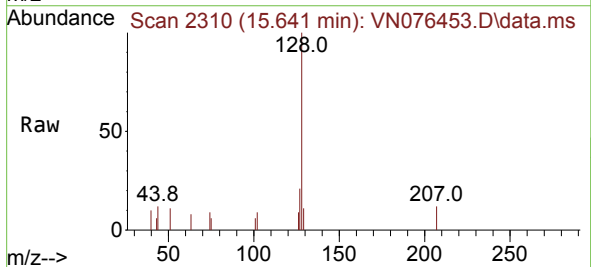
Instrument :
MSVOA_N
ClientSampleId :

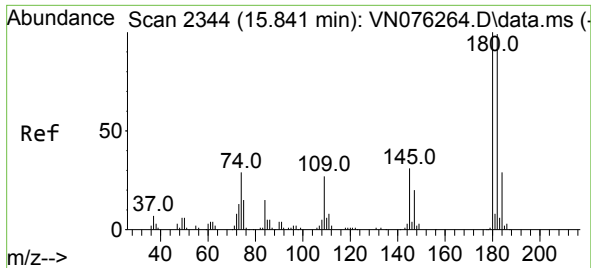
Tgt Ion:180 Resp: 1479
Ion Ratio Lower Upper
180 100
182 76.1 47.0 141.2
145 15.6 15.2 45.5



#95
Naphthalene
Concen: 2.246 ug/l
RT: 15.641 min Scan# 2310
Delta R.T. -0.000 min
Lab File: VN076453.D
Acq: 30 Jan 2023 13:41

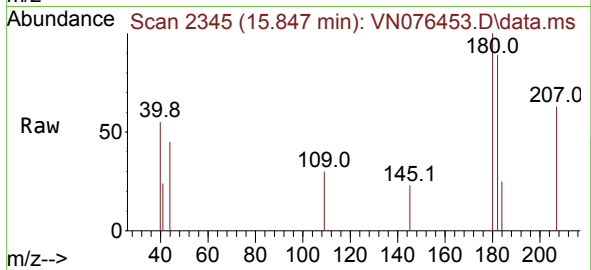
Tgt Ion:128 Resp: 5460
Ion Ratio Lower Upper
128 100
127 13.4 10.3 15.5
129 11.8 8.6 13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 1.472 ug/l
 RT: 15.847 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN076453.D
 Acq: 30 Jan 2023 13:41

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:180 Resp: 1357
 Ion Ratio Lower Upper
 180 100
 182 115.1 47.5 142.5
 145 19.8 15.9 47.6

