

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110623\
 Data File : VN079919.D
 Acq On : 06 Nov 2023 13:46
 Operator : JC\MD
 Sample : PB156885ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 07 04:46:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 02 05:49:08 2023
 Response via : Initial Calibration

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

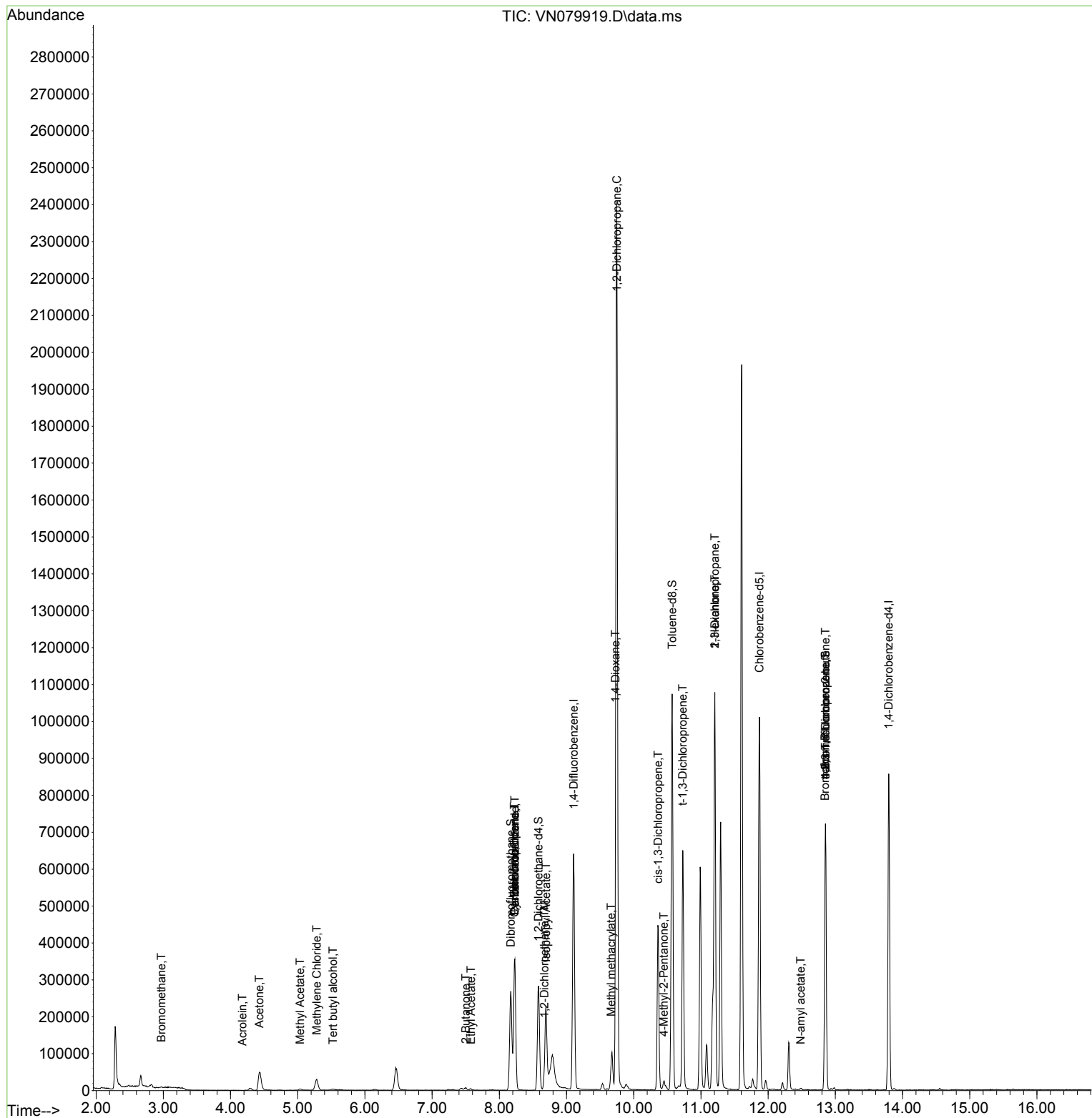
Internal Standards						
1) Pentafluorobenzene	8.230	168	246730	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	529438	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	577803	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	220319	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	232105	61.746	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 123.500%			
35) Dibromofluoromethane	8.171	113	191392	51.077	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.160%			
50) Toluene-d8	10.571	98	720383	52.222	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.440%			
62) 4-Bromofluorobenzene	12.853	95	252151	55.115	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 110.240%			
Target Compounds						Qvalue
3) Chloromethane	2.354	50	1492	Below Cal		98
5) Bromomethane	2.971	94	899	0.380 ug/l #		59
11) Tert butyl alcohol	5.524	59	3712	7.736 ug/l #		81
13) Acrolein	4.177	56	86	2.768 ug/l #		16
16) Acetone	4.430	43	99140	75.084 ug/l		95
18) Methyl Acetate	5.036	43	6262	0.991 ug/l #		59
20) Methylene Chloride	5.283	84	22208	6.666 ug/l		87
25) 2-Butanone	7.500	43	11478	5.936 ug/l #		66
31) Cyclohexane	8.224	56	6299	1.268 ug/l #		30
36) 1,1-Dichloropropene	8.224	75	22548	4.214 ug/l #		47
37) Ethyl Acetate	7.577	43	5506	1.122 ug/l #		83
38) Carbon Tetrachloride	8.230	117	27680	5.133 ug/l #		15
42) 1,2-Dichloroethane	8.671	62	1482	0.265 ug/l #		73
43) Isopropyl Acetate	8.694	43	258745	30.069 ug/l #		78
45) 1,2-Dichloropropane	9.747	63	2809	0.686 ug/l #		45
48) Methyl methacrylate	9.665	41	6674	1.771 ug/l #		30
49) 1,4-Dioxane	9.730	88	82	1.231 ug/l #		30
51) 4-Methyl-2-Pentanone	10.447	43	22237	4.590 ug/l #		77
53) t-1,3-Dichloropropene	10.730	75	1591	0.272 ug/l #		85
54) cis-1,3-Dichloropropene	10.365	75	75794	11.894 ug/l #		74
57) 1,3-Dichloropropane	11.206	76	11575	1.719 ug/l #		42
59) 2-Hexanone	11.206	43	133668	36.067 ug/l #		50
71) Bromoform	12.847	173	2073	0.646 ug/l #		28
74) N-amyl acetate	12.482	43	2208	0.303 ug/l #		43
76) 1,2,3-Trichloropropane	12.853	75	138820	26.838 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.853	75	138820	73.021 ug/l #		15

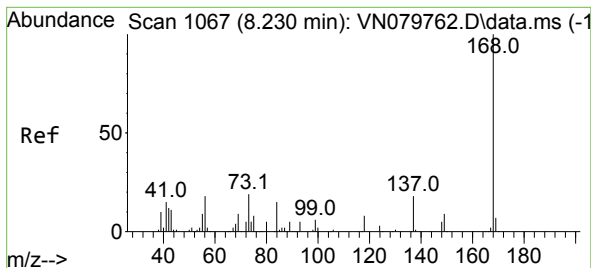
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 10

Delta R.T. 0.001 min

Lab File: VN079919.D

Acq: 06 Nov 2023 13:46

Instrument :

MSVOA_N

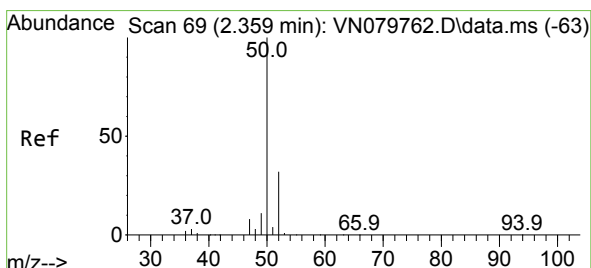
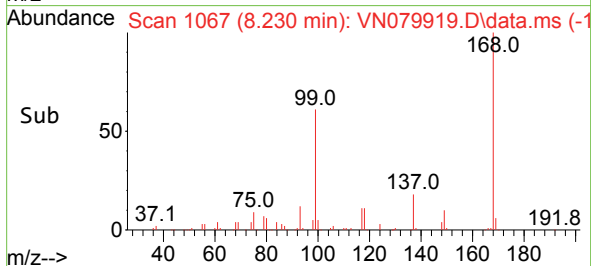
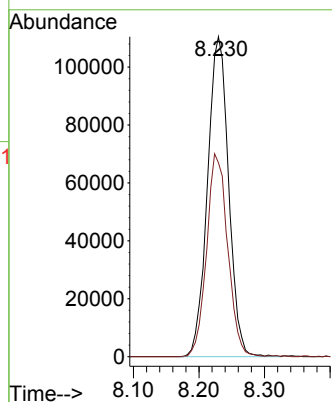
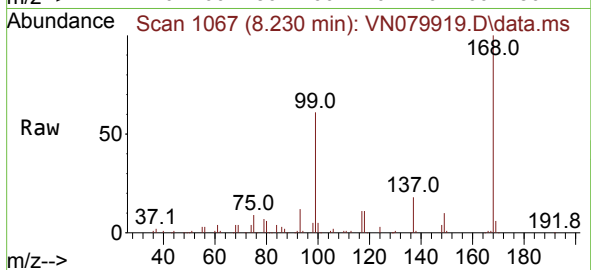
ClientSampleId :

Tgt Ion:168 Resp: 246730

Ion Ratio Lower Upper

168 100

99 60.6 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.354 min Scan# 68

Delta R.T. -0.005 min

Lab File: VN079919.D

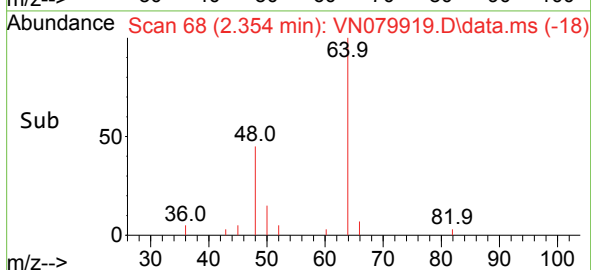
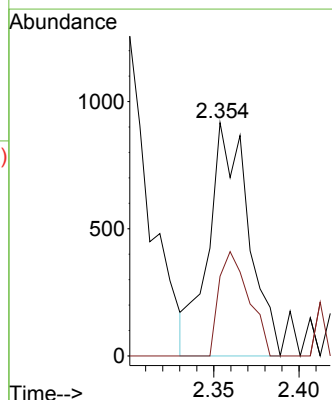
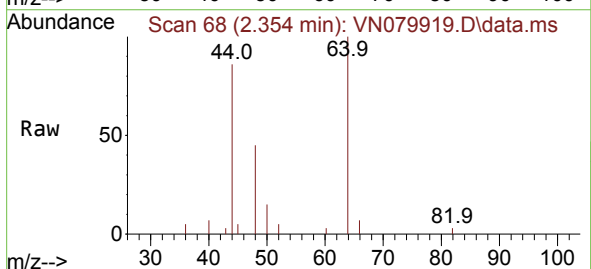
Acq: 06 Nov 2023 13:46

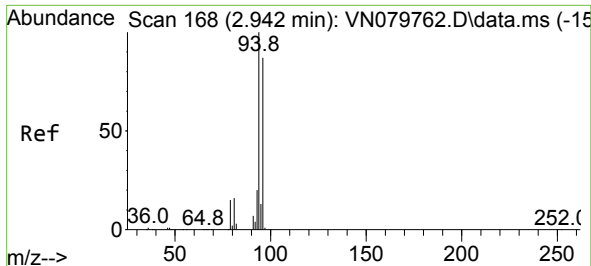
Tgt Ion: 50 Resp: 1492

Ion Ratio Lower Upper

50 100

52 34.1 26.5 39.7

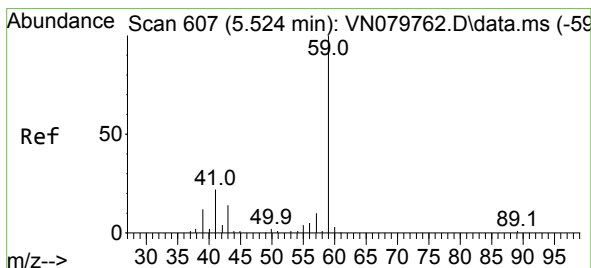
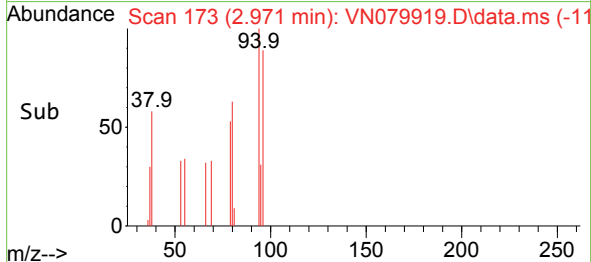
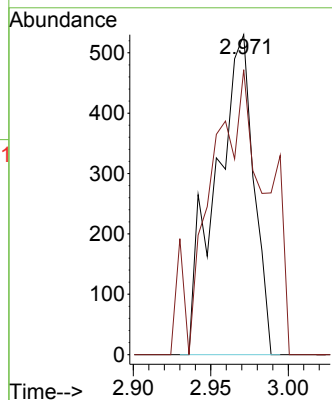
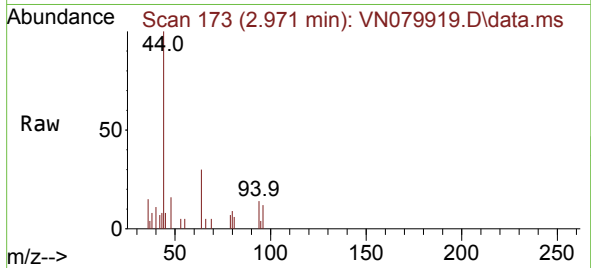




#5
Bromomethane
Concen: 0.380 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN079919.D
Acq: 06 Nov 2023 13:46

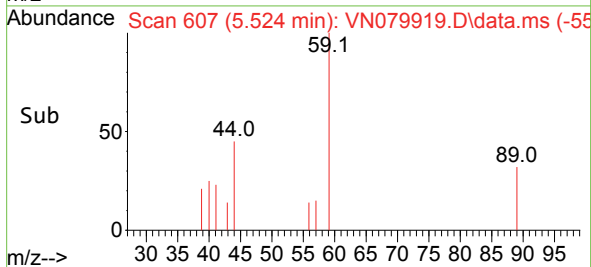
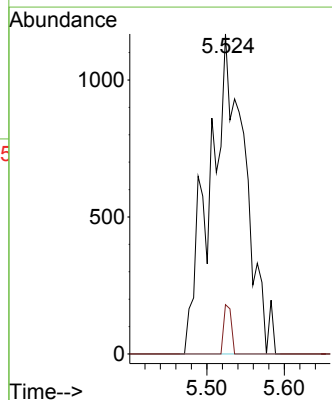
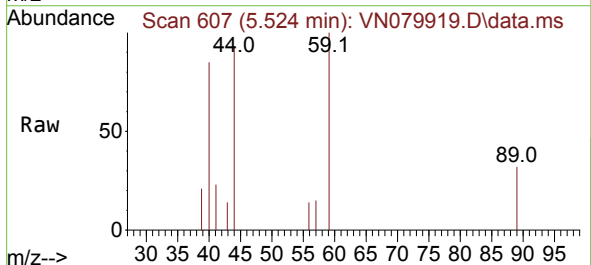
Instrument :
MSVOA_N
ClientSampleId :

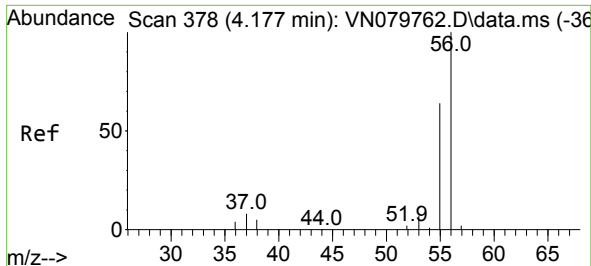
Tgt Ion: 94 Resp: 899
Ion Ratio Lower Upper
94 100
96 52.8 73.1 109.7#



#11
Tert butyl alcohol
Concen: 7.736 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN079919.D
Acq: 06 Nov 2023 13:46

Tgt Ion: 59 Resp: 3712
Ion Ratio Lower Upper
59 100
57 3.3 8.2 12.4#





#13

Acrolein

Concen: 2.768 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN079919.D

Acq: 06 Nov 2023 13:46

Instrument :

MSVOA_N

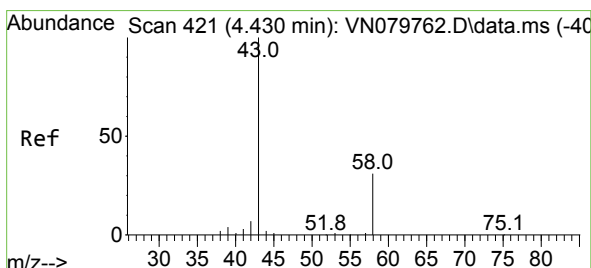
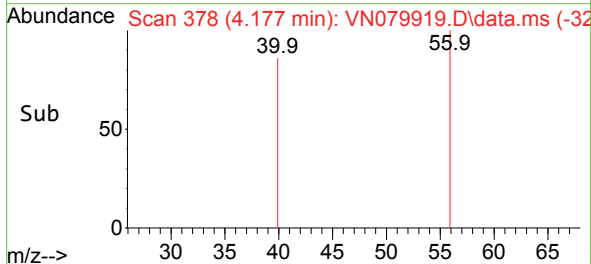
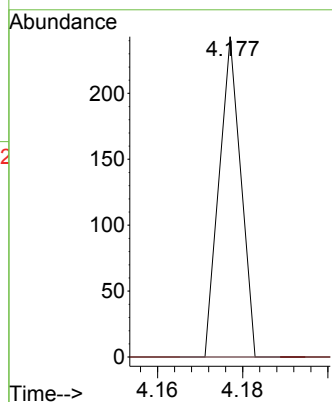
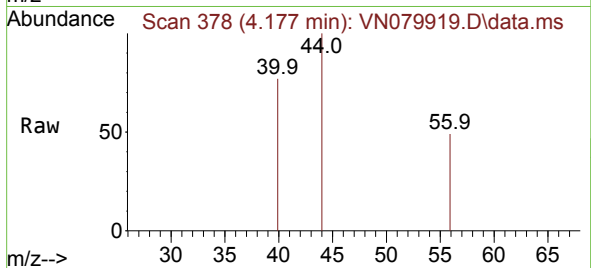
ClientSampleId :

Tgt Ion: 56 Resp: 86

Ion Ratio Lower Upper

56 100

55 0.0 54.5 81.7#



#16

Acetone

Concen: 75.084 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.000 min

Lab File: VN079919.D

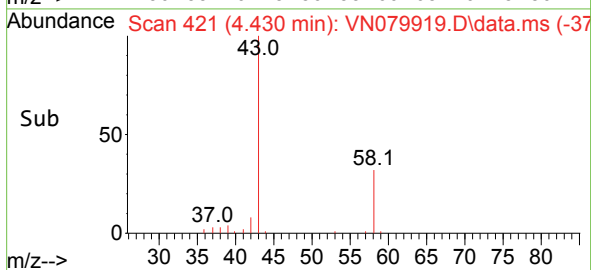
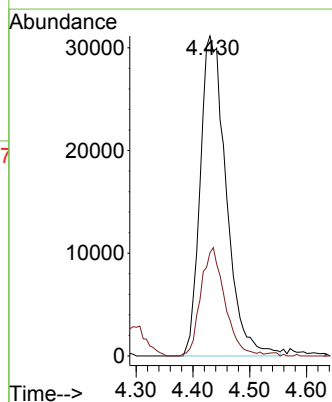
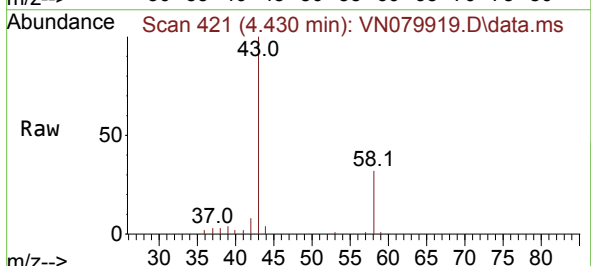
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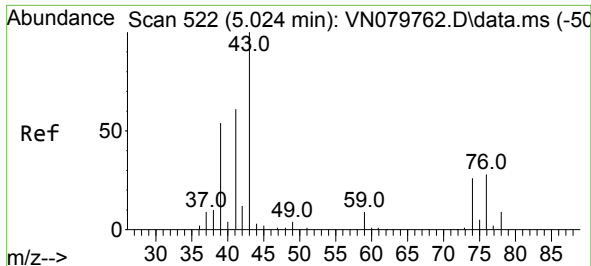
Tgt Ion: 43 Resp: 99140

Ion Ratio Lower Upper

43 100

58 32.2 28.0 42.0

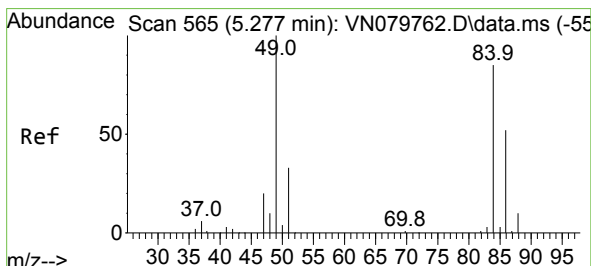
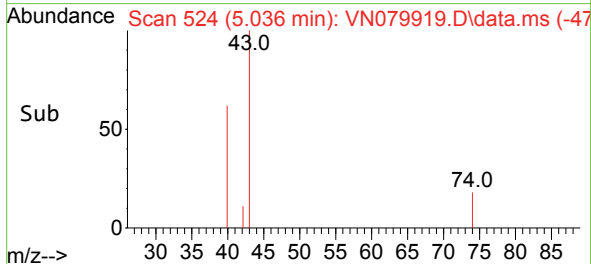
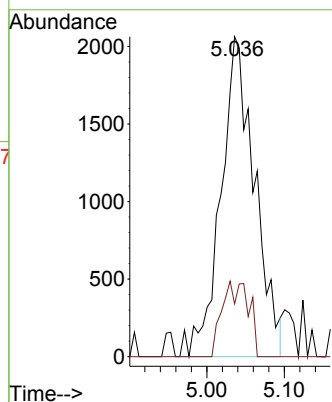
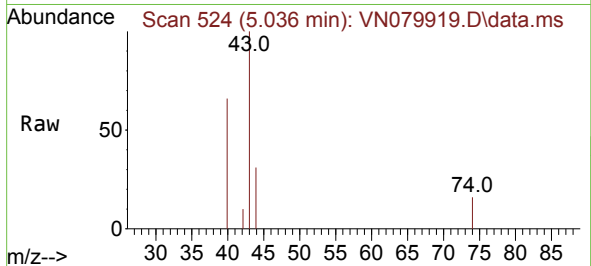




#18
Methyl Acetate
Concen: 0.991 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN079919.D
Acq: 06 Nov 2023 13:46

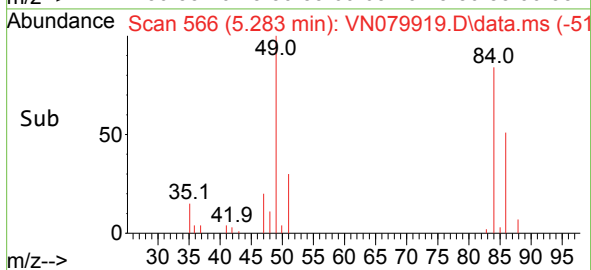
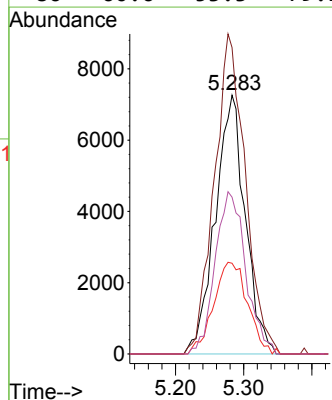
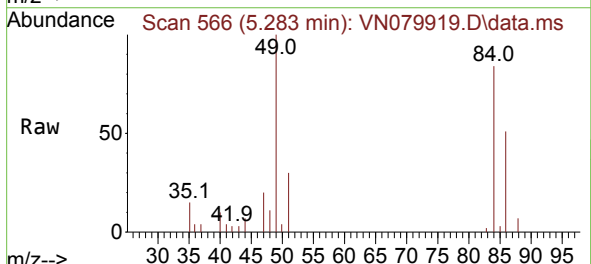
Instrument :
MSVOA_N
ClientSampleId :

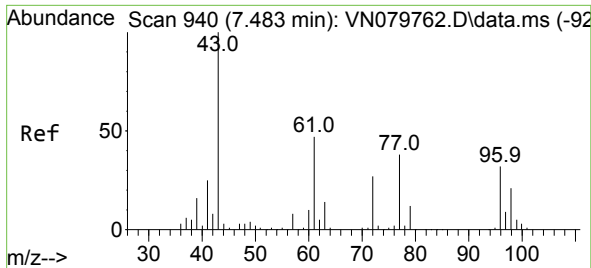
Tgt Ion: 43 Resp: 6262
Ion Ratio Lower Upper
43 100
74 9.6 26.2 39.4#



#20
Methylene Chloride
Concen: 6.666 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.012 min
Lab File: VN079919.D
Acq: 06 Nov 2023 13:46

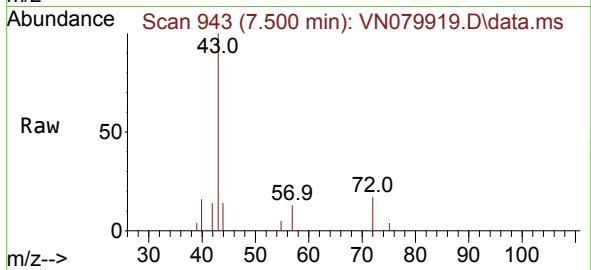
Tgt Ion: 84 Resp: 22208
Ion Ratio Lower Upper
84 100
49 118.4 79.7 119.5
51 35.1 25.2 37.8
86 60.6 53.3 79.9



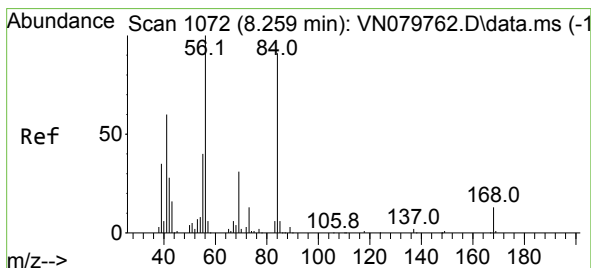
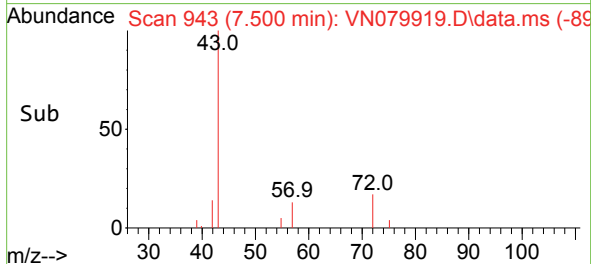
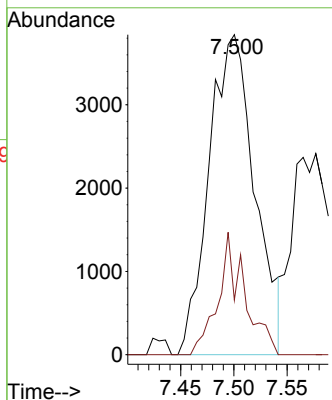


#25
2-Butanone
Concen: 5.936 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN079919.D
Acq: 06 Nov 2023 13:46

Instrument :
MSVOA_N
ClientSampleId :

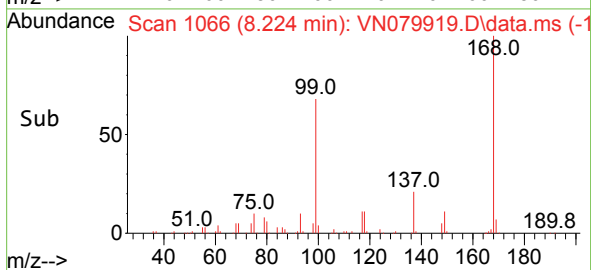
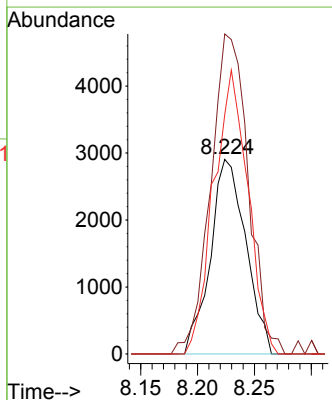
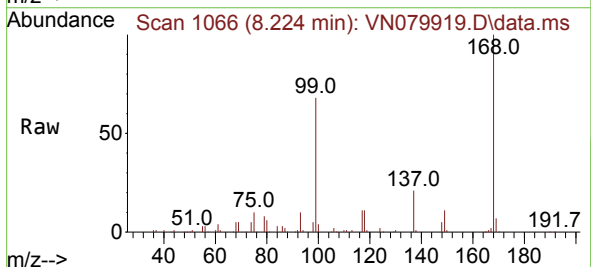


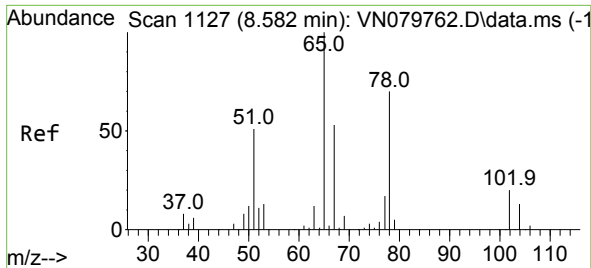
Tgt Ion: 43 Resp: 11478
Ion Ratio Lower Upper
43 100
72 17.1 30.2 45.2#



#31
Cyclohexane
Concen: 1.268 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN079919.D
Acq: 06 Nov 2023 13:46

Tgt Ion: 56 Resp: 6299
Ion Ratio Lower Upper
56 100
69 158.7 26.8 40.2#
84 123.1 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 61.746 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079919.D

Acq: 06 Nov 2023 13:46

Instrument :

MSVOA_N

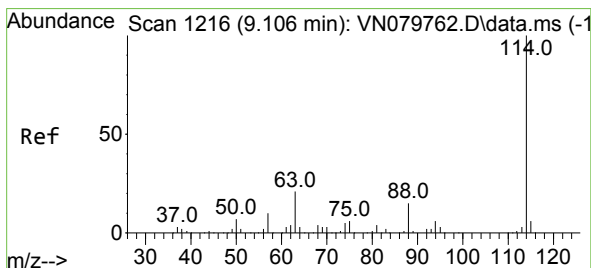
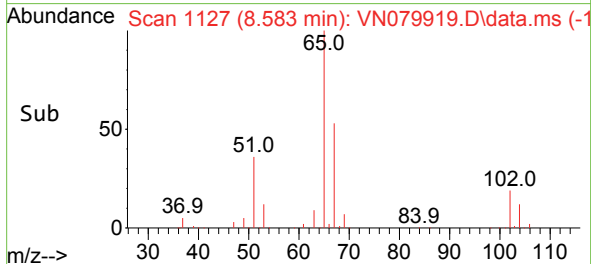
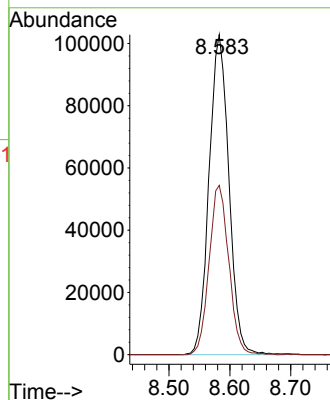
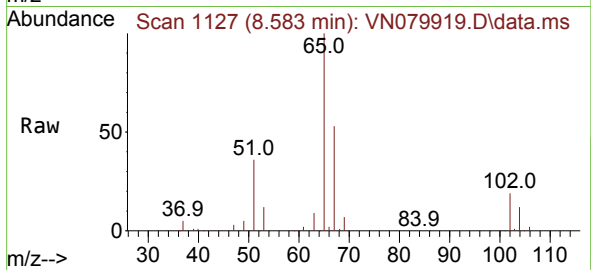
ClientSampleId :

Tgt Ion: 65 Resp: 232105

Ion Ratio Lower Upper

65 100

67 52.6 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN079919.D

Acq: 06 Nov 2023 13:46

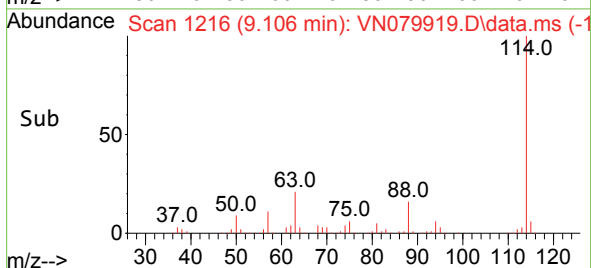
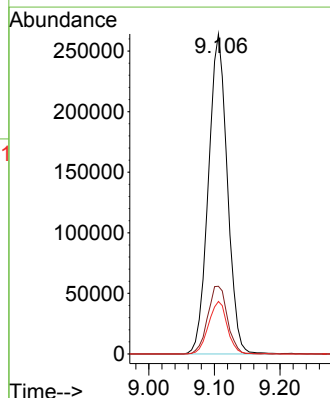
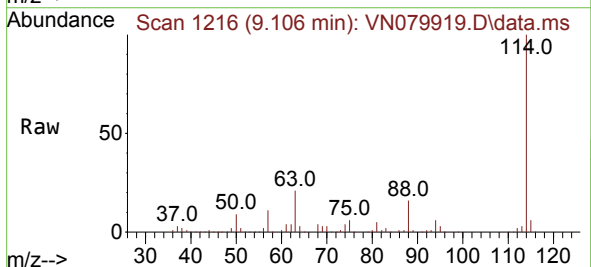
Tgt Ion: 114 Resp: 529438

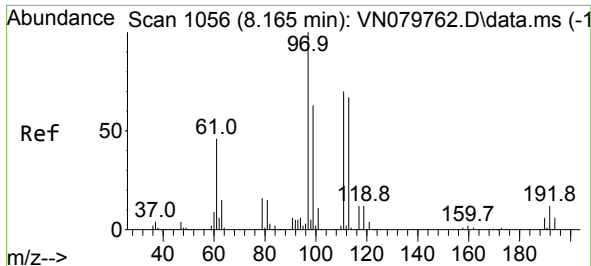
Ion Ratio Lower Upper

114 100

63 21.2 0.0 36.4

88 16.4 0.0 30.6





#35

Dibromofluoromethane

Concen: 51.077 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

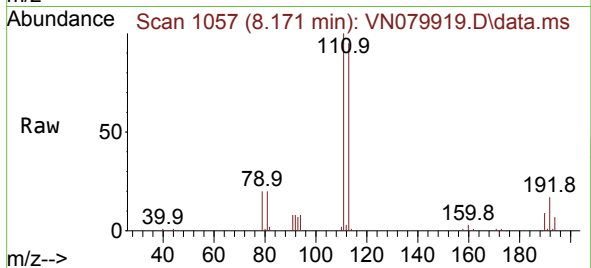
Lab File: VN079919.D

Acq: 06 Nov 2023 13:46

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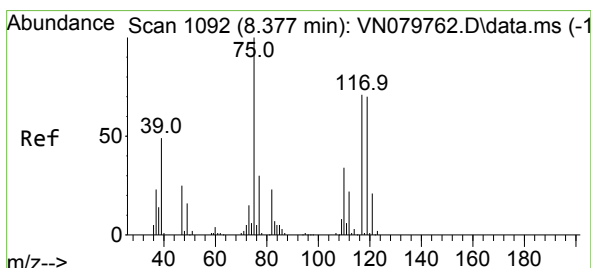
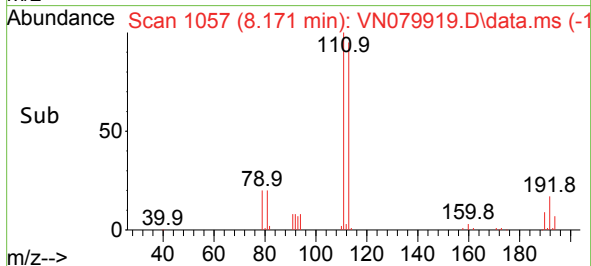
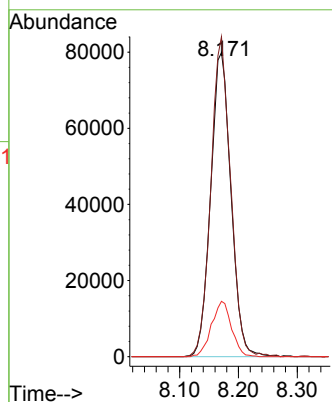
Tgt Ion:113 Resp: 191392

Ion Ratio Lower Upper

113 100

111 102.2 82.6 123.8

192 18.0 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.214 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

Lab File: VN079919.D

Acq: 06 Nov 2023 13:46

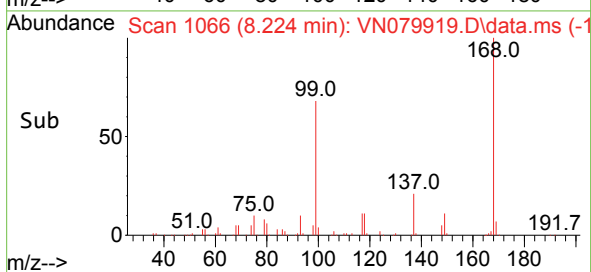
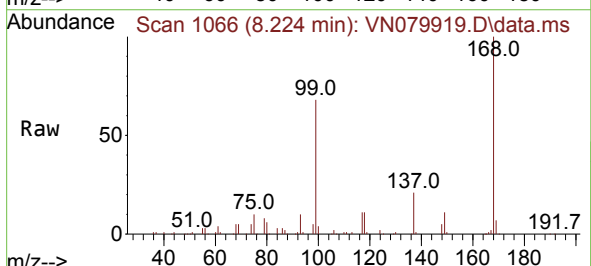
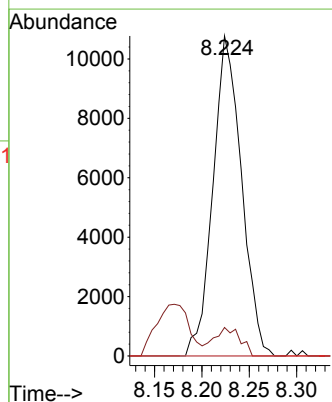
Tgt Ion: 75 Resp: 22548

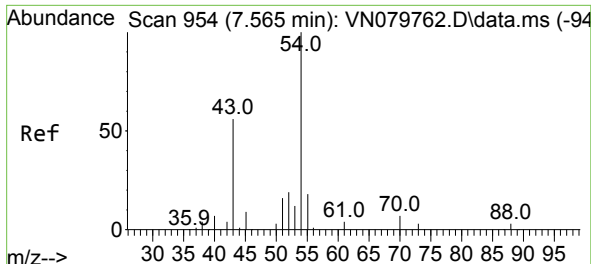
Ion Ratio Lower Upper

75 100

110 8.2 19.1 57.3#

77 0.0 25.0 37.4#

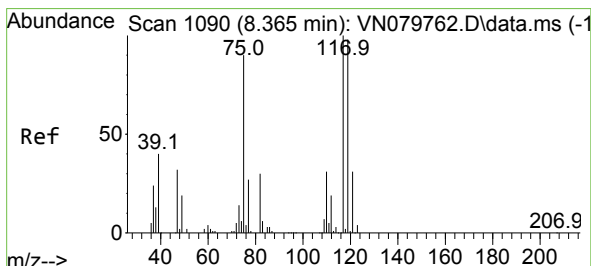
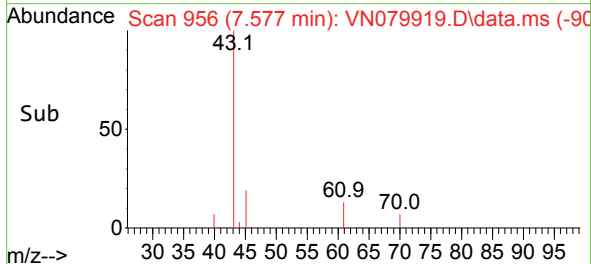
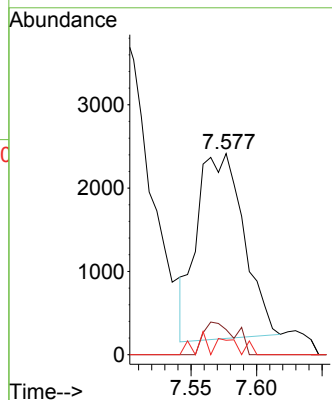
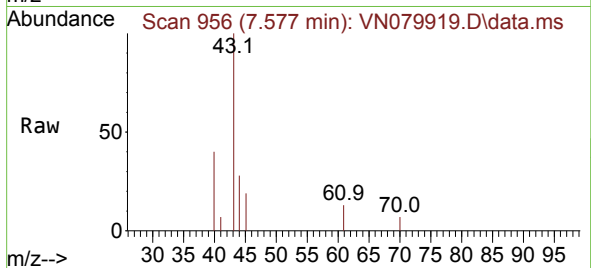




#37
Ethyl Acetate
Concen: 1.122 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN079919.D
Acq: 06 Nov 2023 13:46

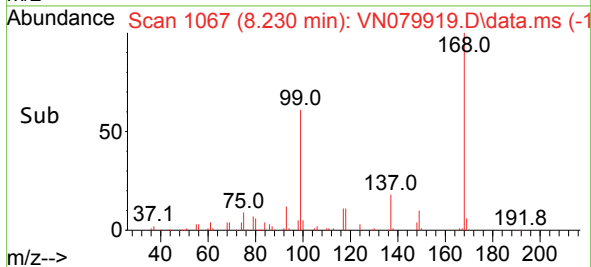
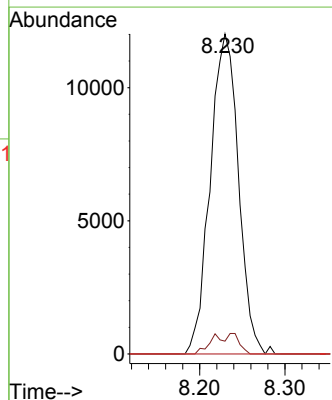
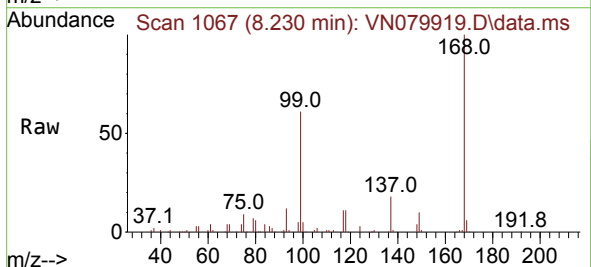
Instrument :
MSVOA_N
ClientSampleId :

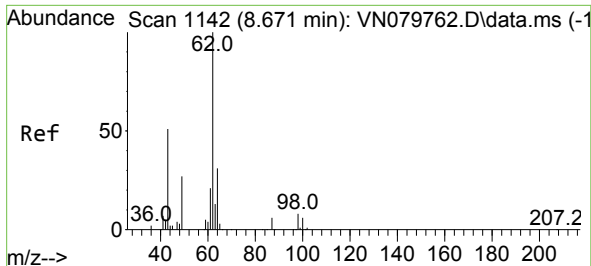
Tgt Ion: 43 Resp: 5506
Ion Ratio Lower Upper
43 100
61 11.9 13.2 19.8#
70 4.6 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 5.133 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.129 min
Lab File: VN079919.D
Acq: 06 Nov 2023 13:46

Tgt Ion: 117 Resp: 27680
Ion Ratio Lower Upper
117 100
119 4.0 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.265 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VN079919.D

Acq: 06 Nov 2023 13:46

Instrument :

MSVOA_N

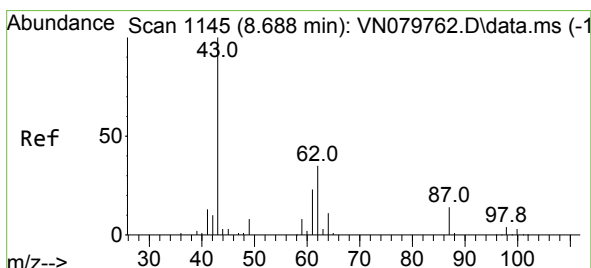
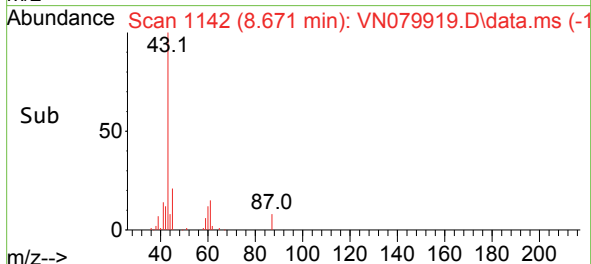
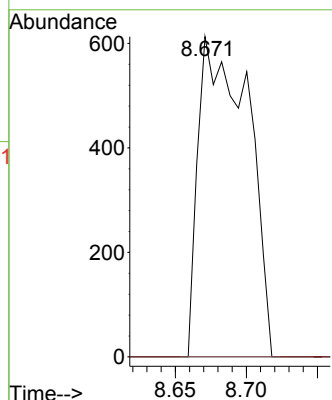
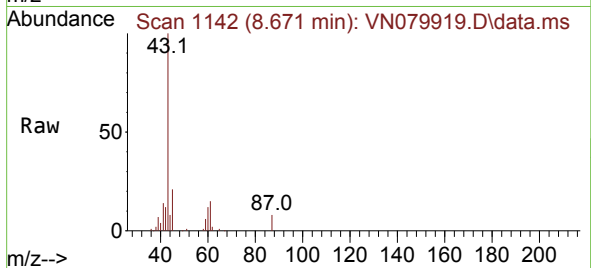
ClientSampleId :

Tgt Ion: 62 Resp: 1482

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 30.069 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.006 min

Lab File: VN079919.D

Acq: 06 Nov 2023 13:46

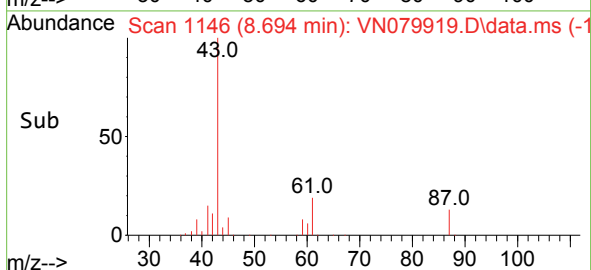
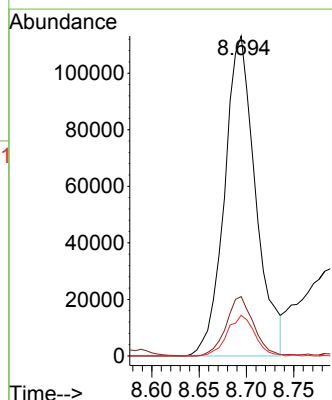
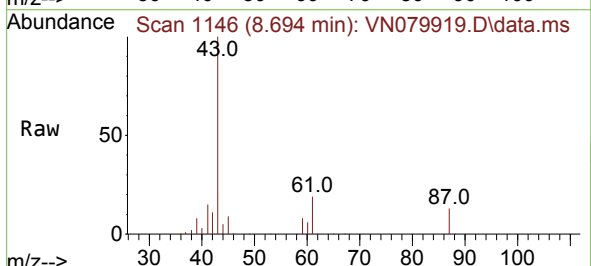
Tgt Ion: 43 Resp: 258745

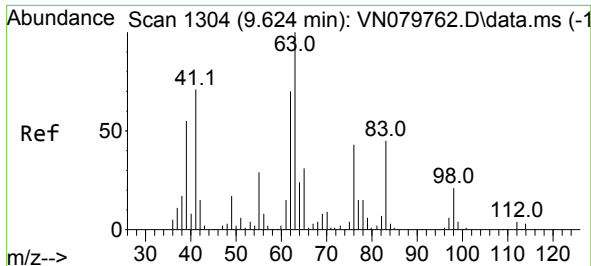
Ion Ratio Lower Upper

43 100

61 16.3 24.7 37.1#

87 11.3 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.686 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.124 min

Lab File: VN079919.D

Acq: 06 Nov 2023 13:46

Instrument :

MSVOA_N

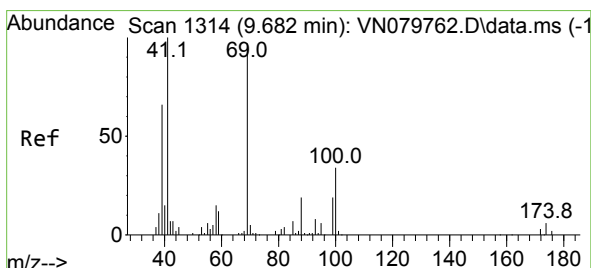
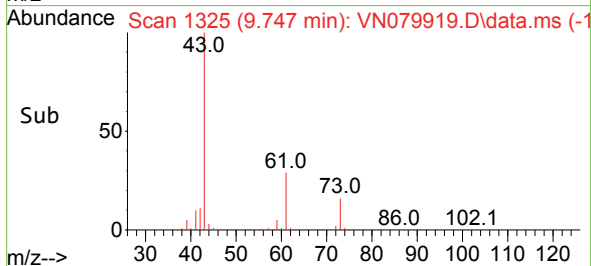
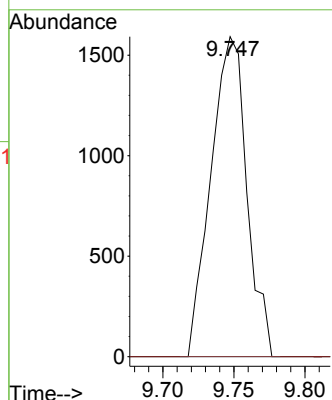
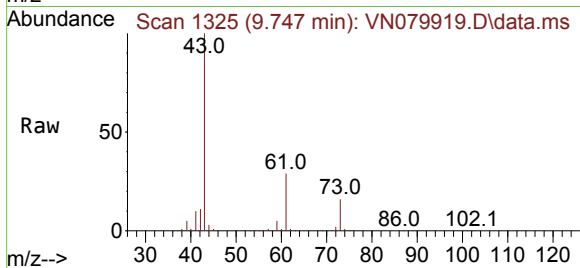
ClientSampleId :

Tgt Ion: 63 Resp: 2809

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 1.771 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.017 min

Lab File: VN079919.D

Acq: 06 Nov 2023 13:46

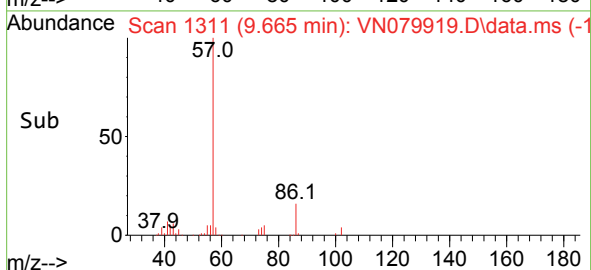
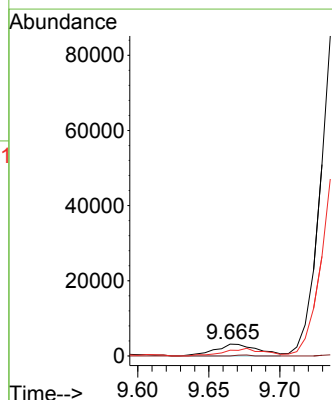
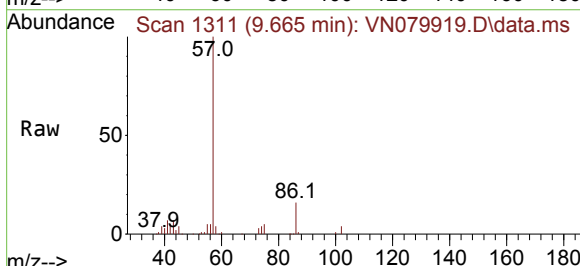
Tgt Ion: 41 Resp: 6674

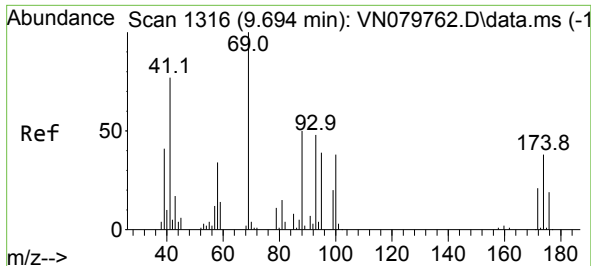
Ion Ratio Lower Upper

41 100

69 2.3 90.4 135.6#

39 57.1 54.6 81.8





#49

1,4-Dioxane

Concen: 1.231 ug/l

RT: 9.730 min Scan# 1

Delta R.T. 0.035 min

Lab File: VN079919.D

Acq: 06 Nov 2023 13:46

Instrument :

MSVOA_N

ClientSampleId :

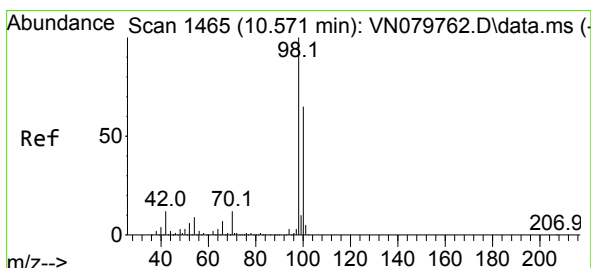
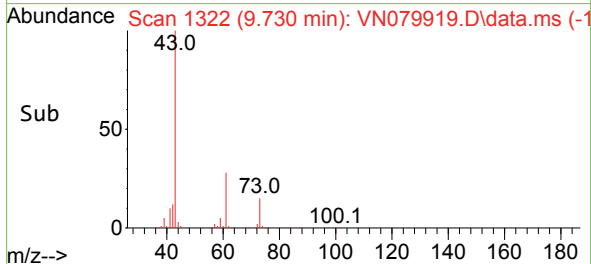
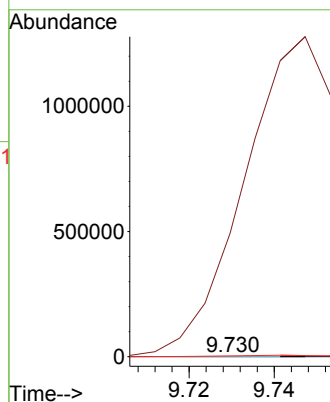
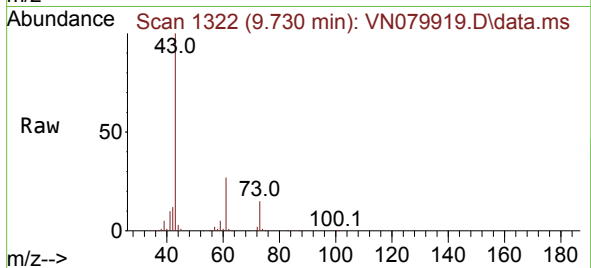
Tgt Ion: 88 Resp: 82

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 0.0 47.0 70.4#



#50

Toluene-d8

Concen: 52.222 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN079919.D

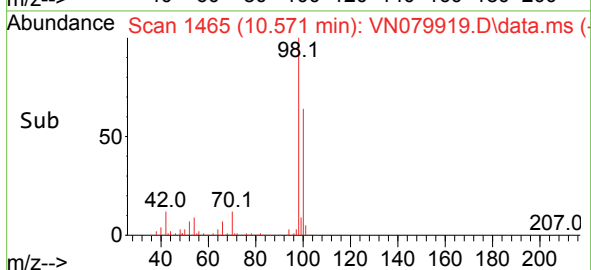
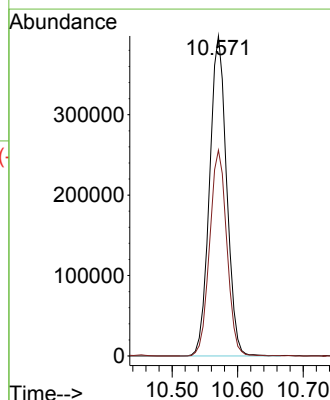
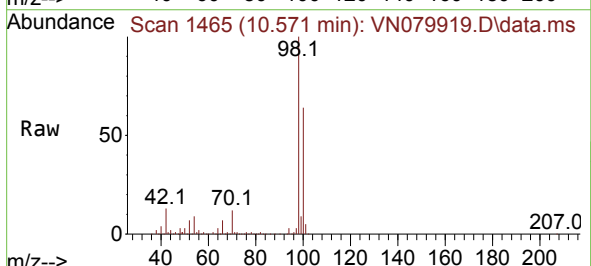
Acq: 06 Nov 2023 13:46

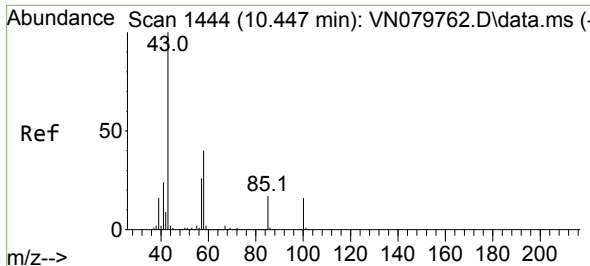
Tgt Ion: 98 Resp: 720383

Ion Ratio Lower Upper

98 100

100 64.5 52.0 78.0

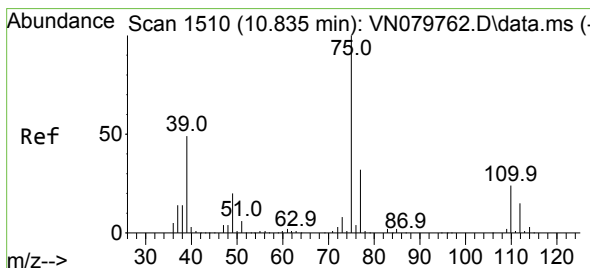
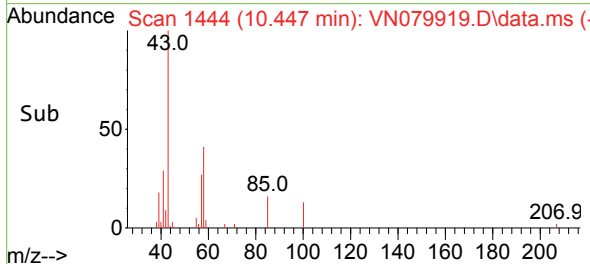
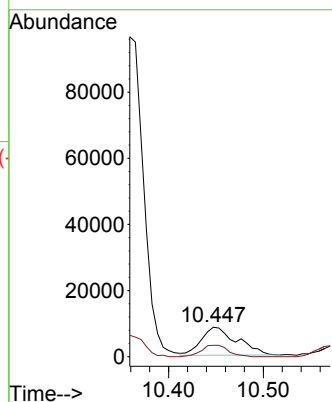
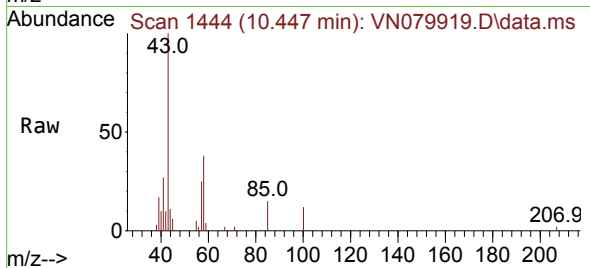




#51
4-Methyl-2-Pentanone
Concen: 4.590 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN079919.D
Acq: 06 Nov 2023 13:46

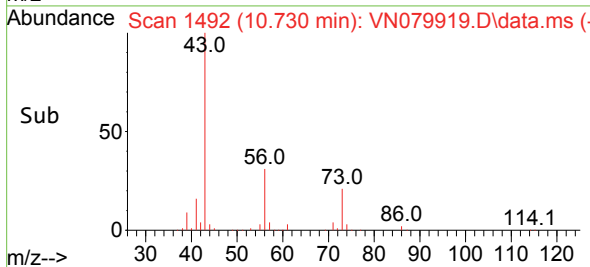
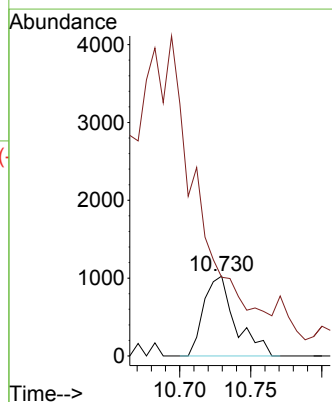
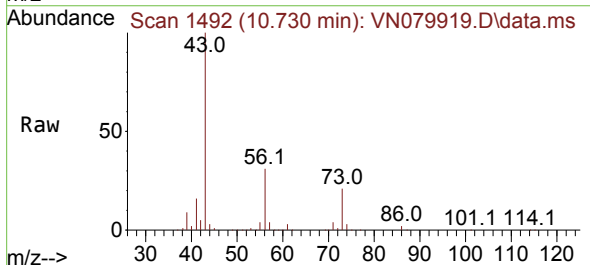
Instrument :
MSVOA_N
ClientSampleId :

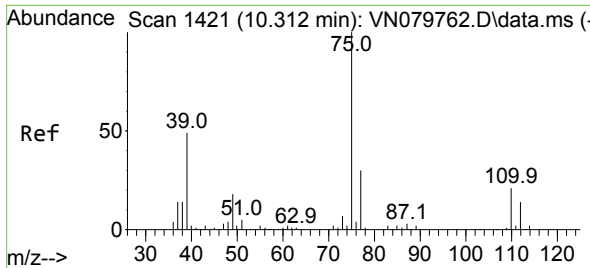
Tgt Ion: 43 Resp: 22237
Ion Ratio Lower Upper
43 100
58 30.7 36.6 54.8#



#53
t-1,3-Dichloropropene
Concen: 0.272 ug/l
RT: 10.730 min Scan# 1492
Delta R.T. -0.112 min
Lab File: VN079919.D
Acq: 06 Nov 2023 13:46

Tgt Ion: 75 Resp: 1591
Ion Ratio Lower Upper
75 100
77 23.4 25.4 38.0#

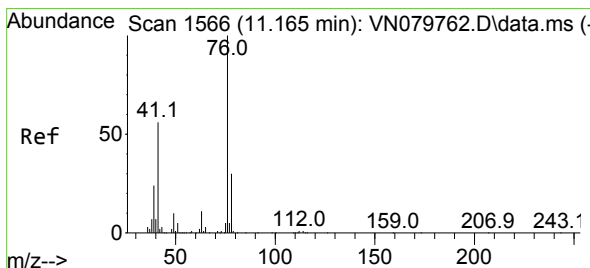
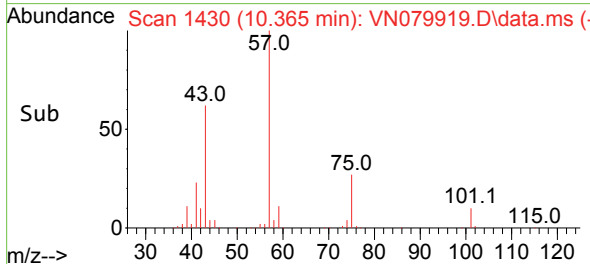
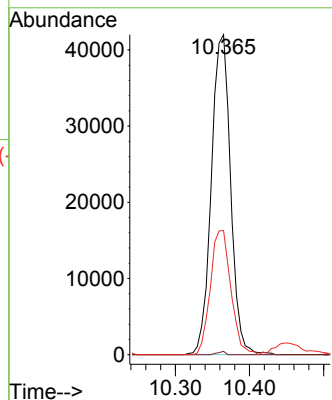
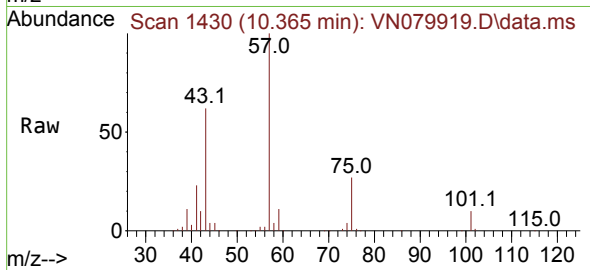




#54
 cis-1,3-Dichloropropene
 Concen: 11.894 ug/l
 RT: 10.365 min Scan# 1421
 Delta R.T. 0.047 min
 Lab File: VN079919.D
 Acq: 06 Nov 2023 13:46

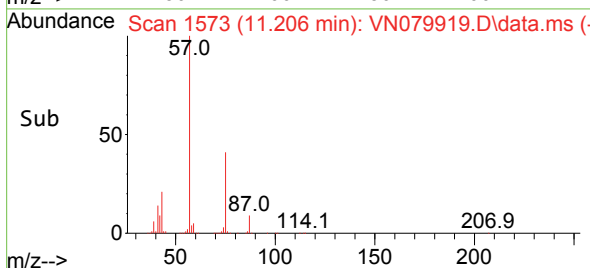
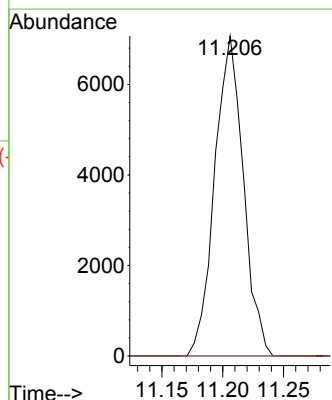
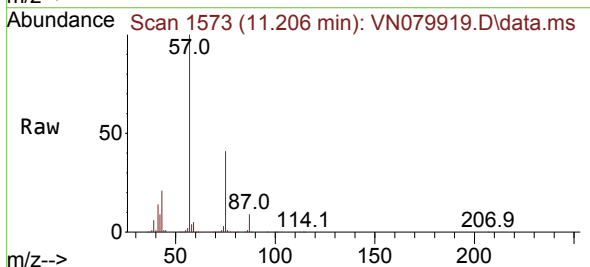
Instrument :
 MSVOA_N
 ClientSampleId :

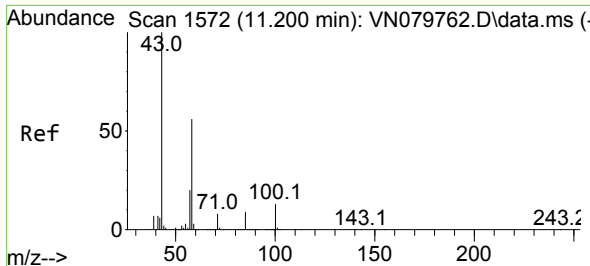
Tgt Ion: 75 Resp: 75794
 Ion Ratio Lower Upper
 75 100
 77 1.1 26.1 39.1#
 39 38.8 31.6 47.4



#57
 1,3-Dichloropropane
 Concen: 1.719 ug/l
 RT: 11.206 min Scan# 1573
 Delta R.T. 0.041 min
 Lab File: VN079919.D
 Acq: 06 Nov 2023 13:46

Tgt Ion: 76 Resp: 11575
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

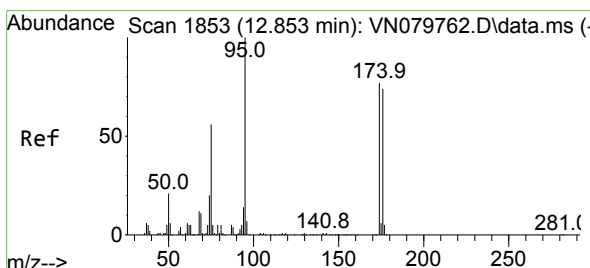
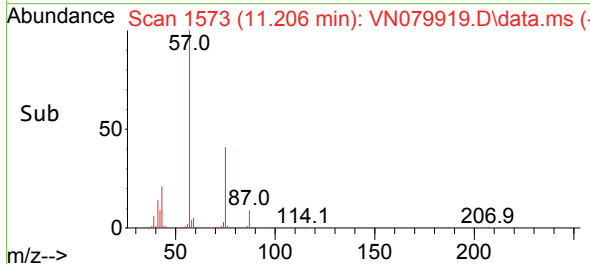
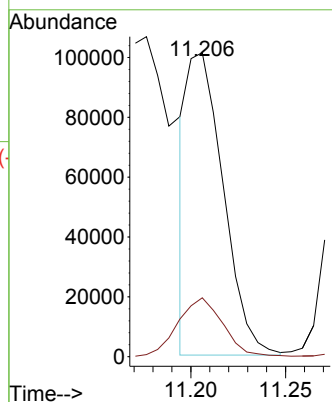
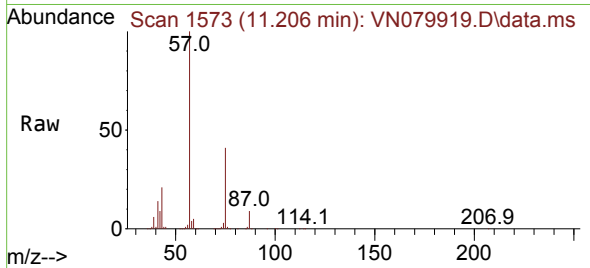




#59
2-Hexanone
Concen: 36.067 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN079919.D
Acq: 06 Nov 2023 13:46

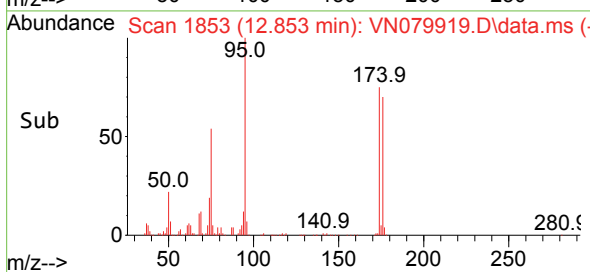
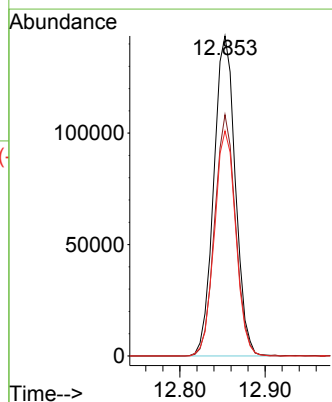
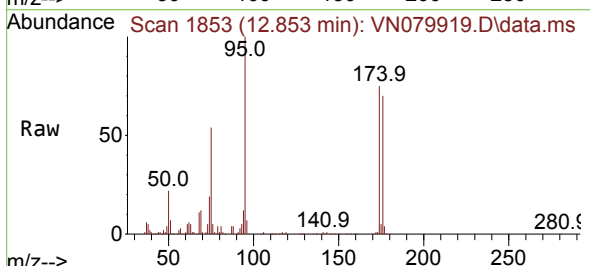
Instrument :
MSVOA_N
ClientSampleId :

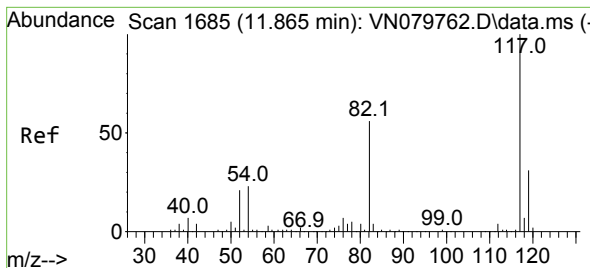
Tgt Ion: 43 Resp: 133668
Ion Ratio Lower Upper
43 100
58 24.5 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 55.115 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079919.D
Acq: 06 Nov 2023 13:46

Tgt Ion: 95 Resp: 252151
Ion Ratio Lower Upper
95 100
174 73.3 0.0 143.8
176 69.8 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN079919.D

Acq: 06 Nov 2023 13:46

Instrument :

MSVOA_N

ClientSampleId :

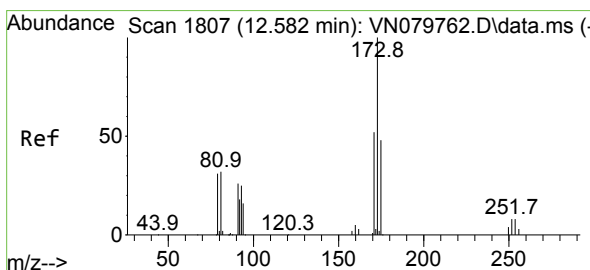
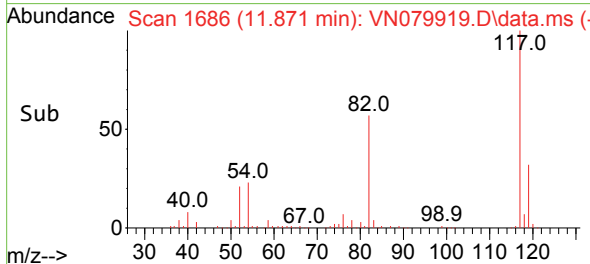
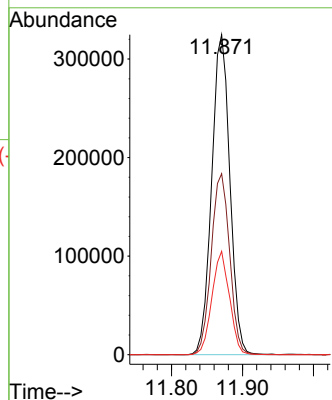
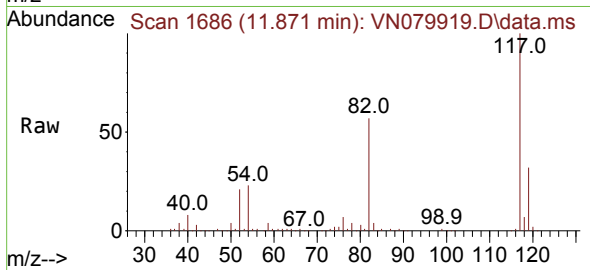
Tgt Ion:117 Resp: 577803

Ion Ratio Lower Upper

117 100

82 56.5 44.0 66.0

119 32.3 25.6 38.4



#71

Bromoform

Concen: 0.646 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.265 min

Lab File: VN079919.D

Acq: 06 Nov 2023 13:46

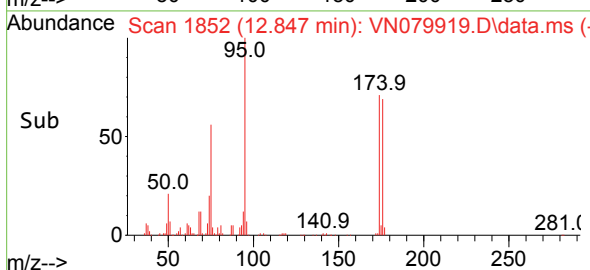
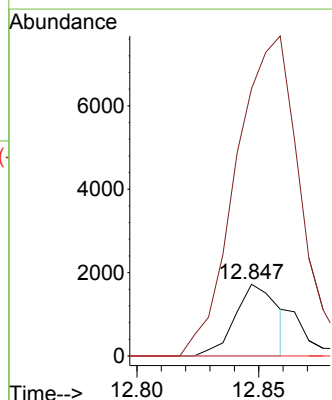
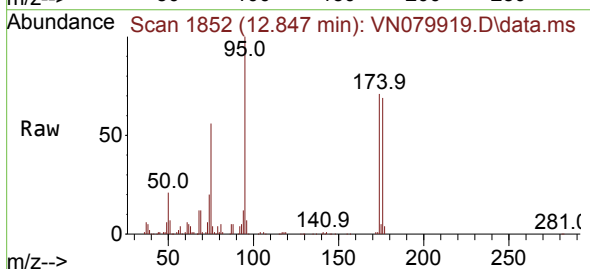
Tgt Ion:173 Resp: 2073

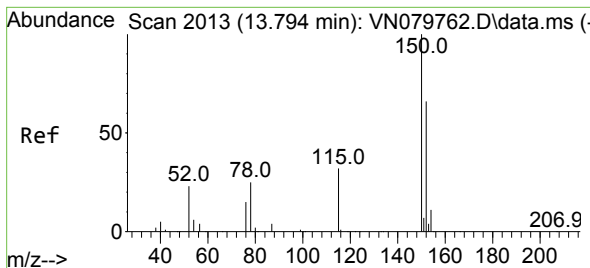
Ion Ratio Lower Upper

173 100

175 0.0 24.3 73.0#

254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.000 min

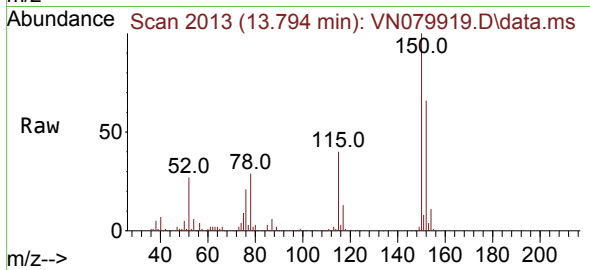
Lab File: VN079919.D

Acq: 06 Nov 2023 13:46

Instrument :

MSVOA_N

ClientSampleId :



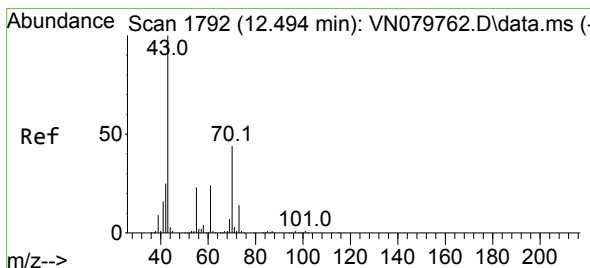
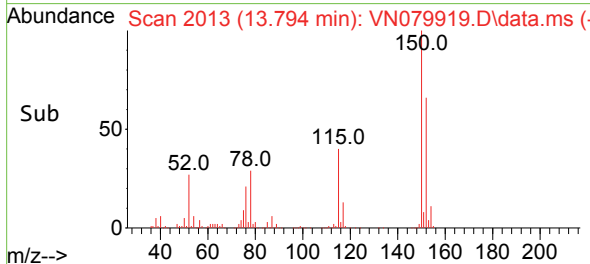
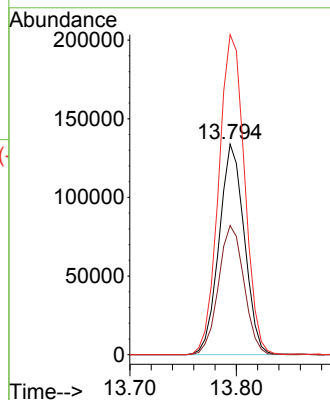
Tgt Ion:152 Resp: 220319

Ion Ratio Lower Upper

152 100

115 62.0 32.3 96.8

150 155.6 0.0 355.8



#74

N-ethyl acetate

Concen: 0.303 ug/l

RT: 12.482 min Scan# 1790

Delta R.T. -0.012 min

Lab File: VN079919.D

Acq: 06 Nov 2023 13:46

Tgt Ion: 43 Resp: 2208

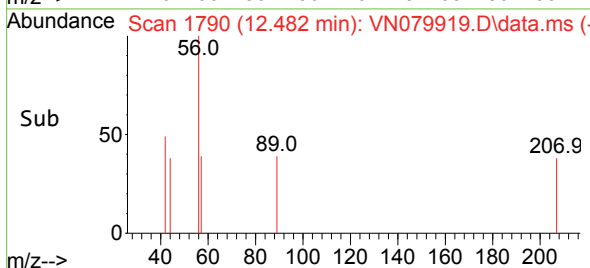
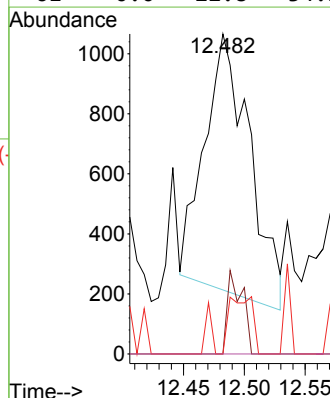
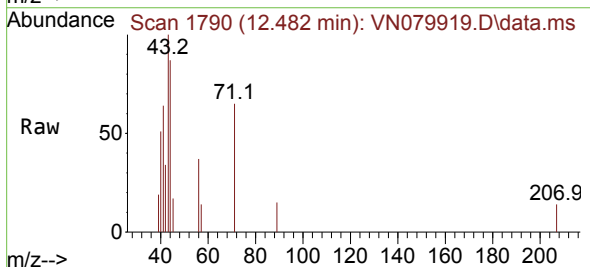
Ion Ratio Lower Upper

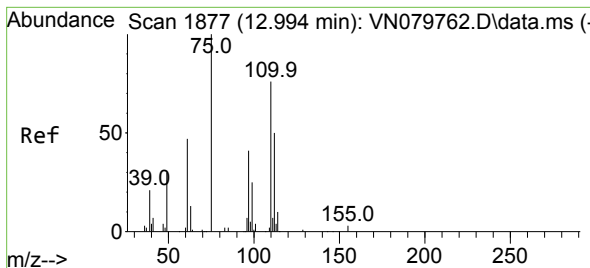
43 100

70 10.8 43.4 65.2#

55 0.0 21.4 32.0#

61 0.0 22.8 34.2#

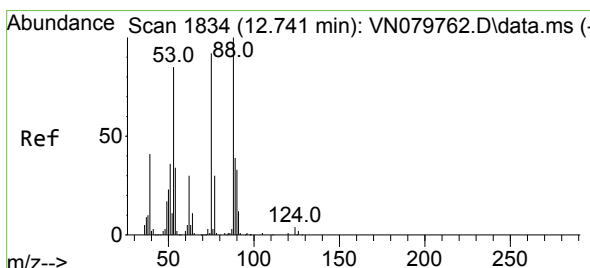
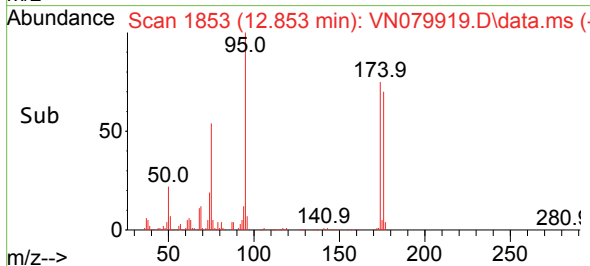
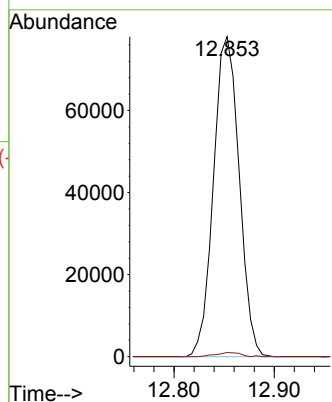
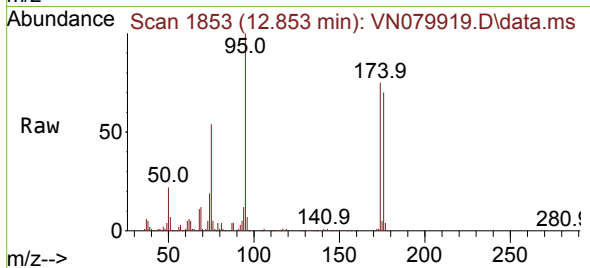




#76
1,2,3-Trichloropropane
Concen: 26.838 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN079919.D
Acq: 06 Nov 2023 13:46

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 138820
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.021 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN079919.D
Acq: 06 Nov 2023 13:46

Tgt Ion: 75 Resp: 138820
Ion Ratio Lower Upper
75 100
53 0.2 67.4 101.2#
89 0.0 38.8 58.2#

