

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122023\
 Data File : VN080561.D
 Acq On : 20 Dec 2023 20:51
 Operator : JC\MD
 Sample : 05863-02 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 21 02:52:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121223W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 13 01:57:14 2023
 Response via : Initial Calibration

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

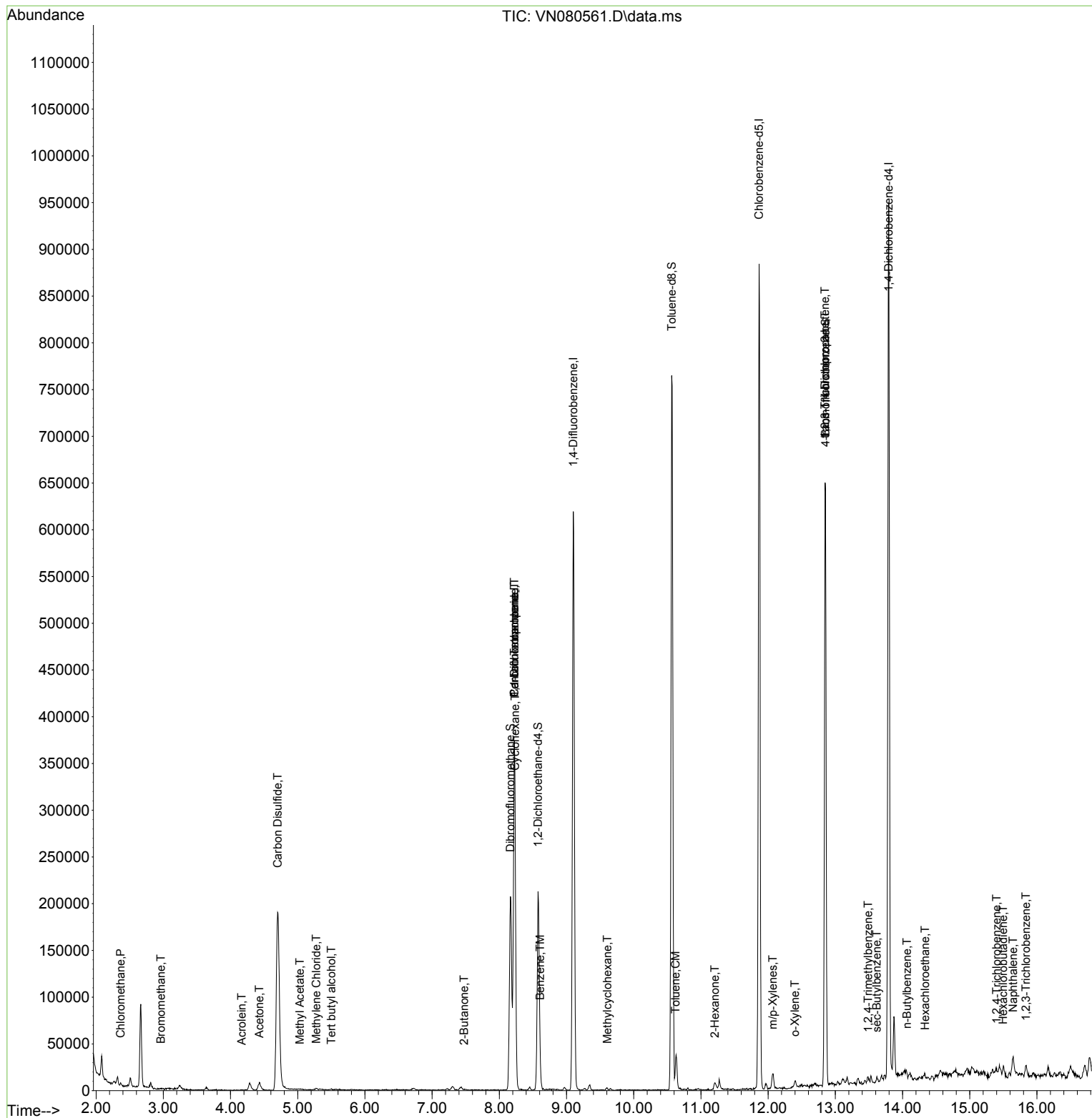
Internal Standards						
1) Pentafluorobenzene	8.224	168	269771	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	499688	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	519348	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	255183	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	176259	51.155	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.300%			
35) Dibromofluoromethane	8.165	113	149317	47.130	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.260%			
50) Toluene-d8	10.565	98	552417	46.752	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.500%			
62) 4-Bromofluorobenzene	12.853	95	239277	53.329	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 106.660%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	4145	0.752	ug/l #	82
5) Bromomethane	2.965	94	513	0.386	ug/l	95
11) Tert butyl alcohol	5.500	59	318	0.784	ug/l #	72
13) Acrolein	4.165	56	152	0.342	ug/l	93
16) Acetone	4.430	43	14828	24.271	ug/l	98
17) Carbon Disulfide	4.700	76	1935	0.235	ug/l #	75
18) Methyl Acetate	5.030	43	1591	0.405	ug/l #	48
20) Methylene Chloride	5.277	84	967	0.296	ug/l #	50
25) 2-Butanone	7.477	43	564	0.479	ug/l #	37
31) Cyclohexane	8.236	56	6602	1.409	ug/l #	51
36) 1,1-Dichloropropene	8.224	75	21312	4.114	ug/l #	49
38) Carbon Tetrachloride	8.224	117	28567	4.615	ug/l #	15
39) Methylcyclohexane	9.606	83	1223	0.227	ug/l #	87
40) Benzene	8.606	78	9868	0.660	ug/l	94
52) Toluene	10.624	92	16678	1.765	ug/l	98
59) 2-Hexanone	11.206	43	2507	1.057	ug/l #	36
68) m/p-Xylenes	12.071	106	5428	0.691	ug/l	92
69) o-Xylene	12.400	106	2128	0.277	ug/l	98
76) 1,2,3-Trichloropropane	12.847	75	127134	24.973	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	127134	65.569	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.488	105	4922	0.280	ug/l	82
85) sec-Butylbenzene	13.618	105	4111	0.222	ug/l	91
89) n-Butylbenzene	14.065	91	4199	0.301	ug/l	98
90) Hexachloroethane	14.335	117	1124	0.424	ug/l #	28
93) 1,2,4-Trichlorobenzene	15.400	180	1797	0.384	ug/l #	58
94) Hexachlorobutadiene	15.494	225	1293	0.485	ug/l	86
95) Naphthalene	15.647	128	19216	1.351	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.835	180	1864	0.412	ug/l #	68

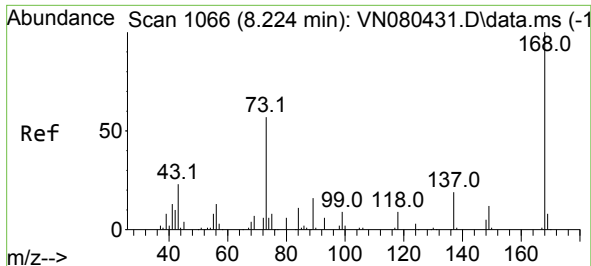
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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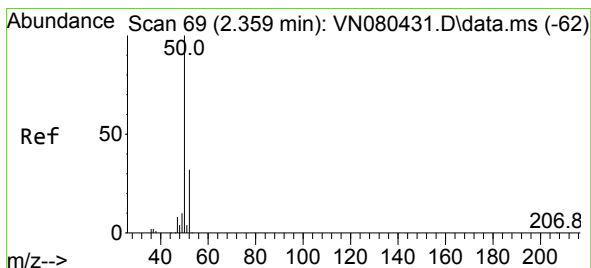
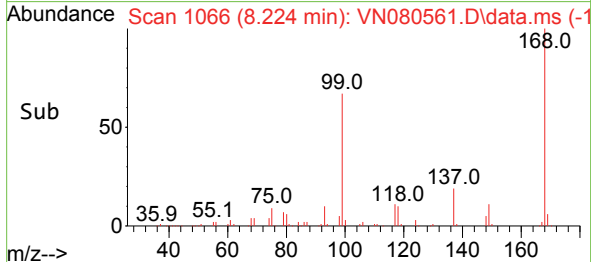
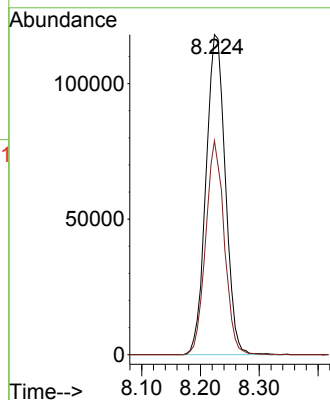
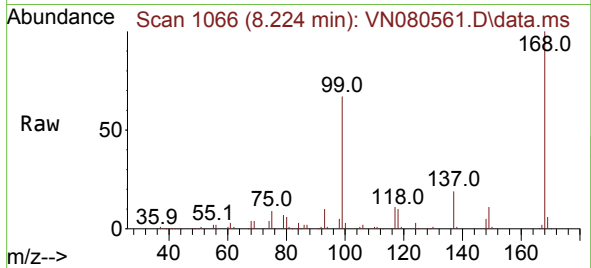




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

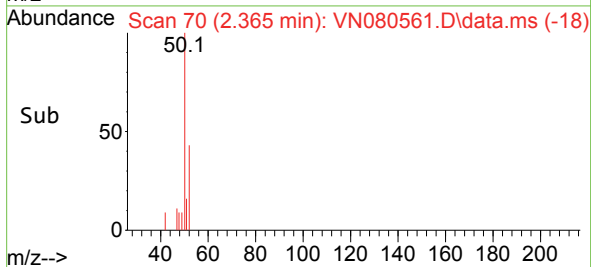
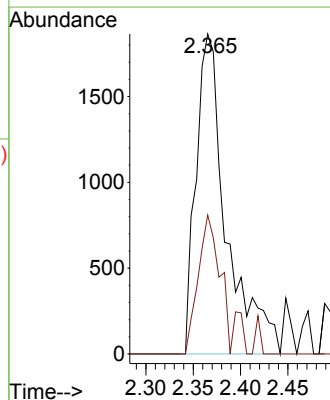
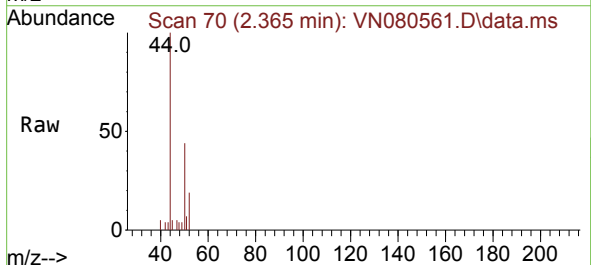
Instrument :
MSVOA_N
ClientSampleId :

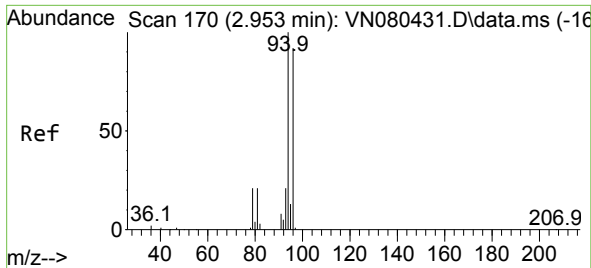
Tgt Ion:168 Resp: 269771
Ion Ratio Lower Upper
168 100
99 66.9 53.0 79.6



#3
Chloromethane
Concen: 0.752 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

Tgt Ion: 50 Resp: 4145
Ion Ratio Lower Upper
50 100
52 43.4 26.5 39.7#

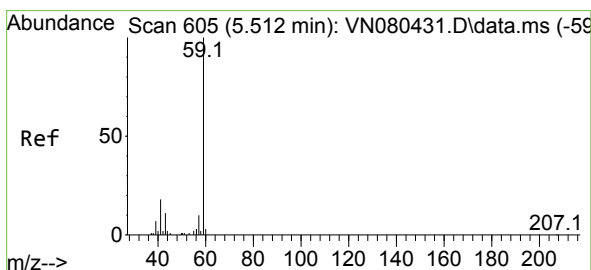
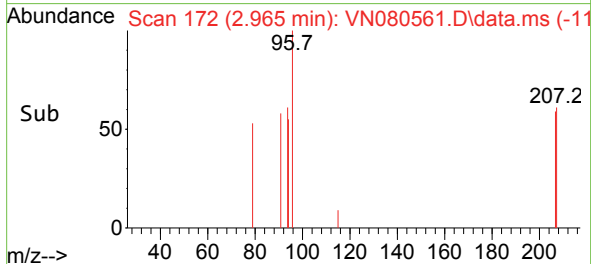
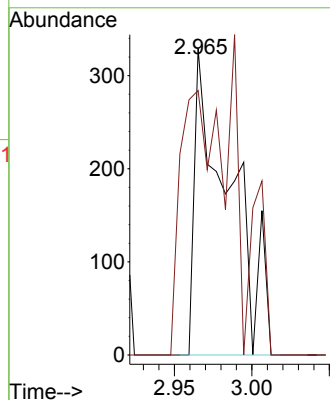
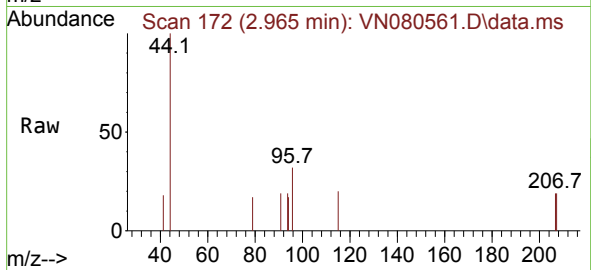




#5
Bromomethane
Concen: 0.386 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

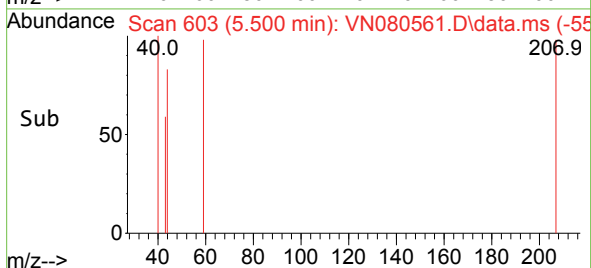
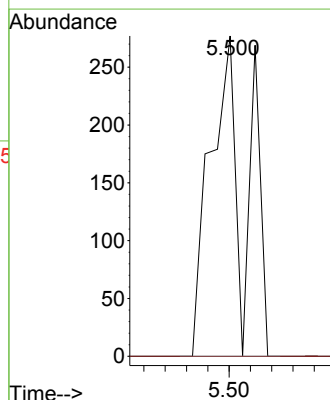
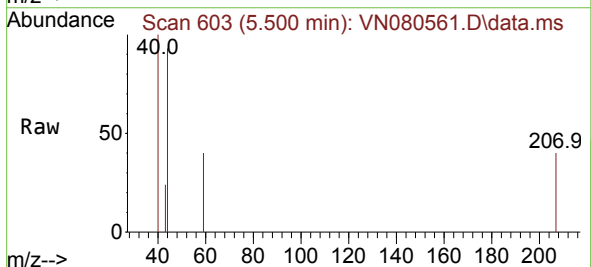
Instrument :
MSVOA_N
ClientSampleId :

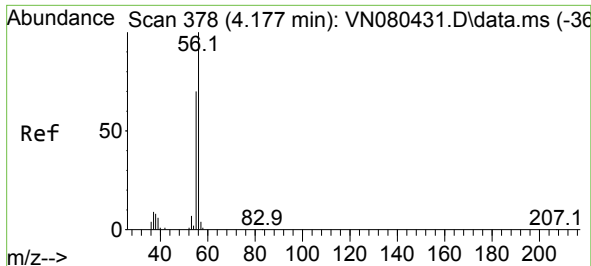
Tgt Ion: 94 Resp: 513
Ion Ratio Lower Upper
94 100
96 86.3 73.1 109.7



#11
Tert butyl alcohol
Concen: 0.784 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.012 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

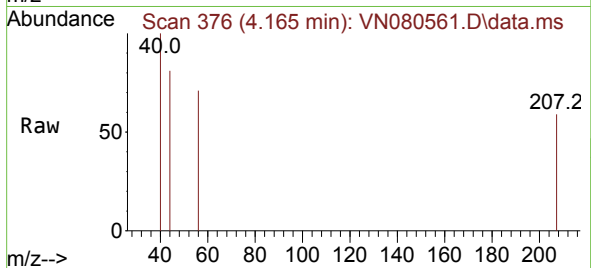
Tgt Ion: 59 Resp: 318
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



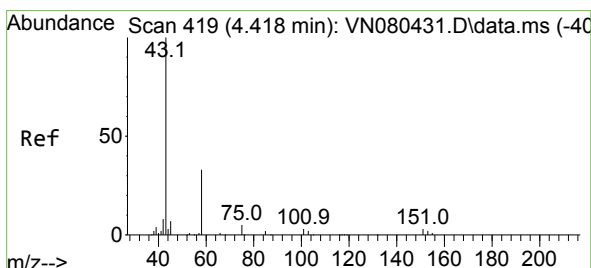
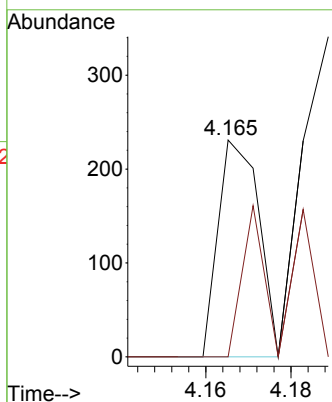
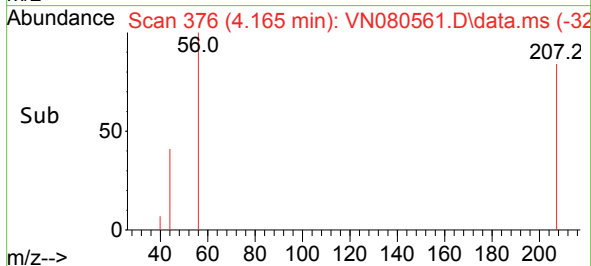


#13
Acrolein
Concen: 0.342 ug/l
RT: 4.165 min Scan# 31
Delta R.T. -0.012 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

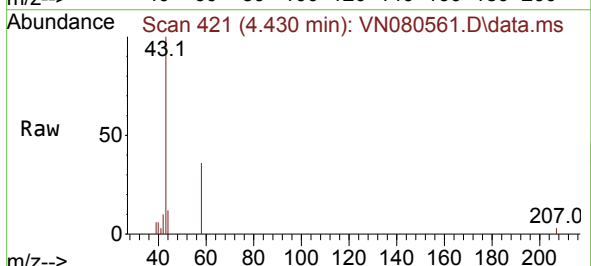
Instrument :
MSVOA_N
ClientSampleId :



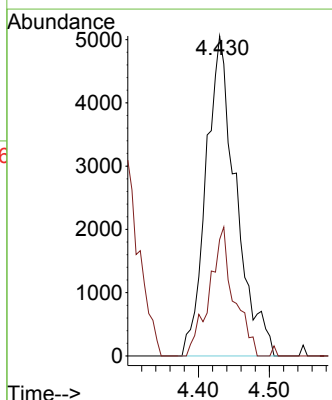
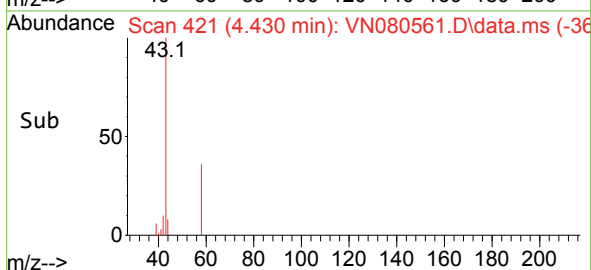
Tgt Ion: 56 Resp: 152
Ion Ratio Lower Upper
56 100
55 73.7 54.5 81.7

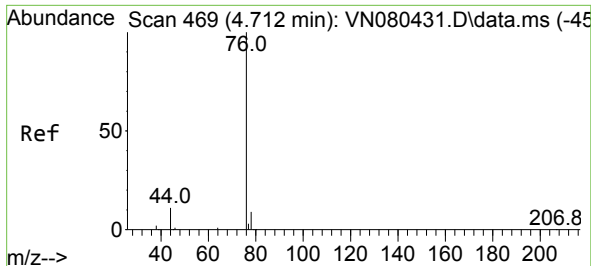


#16
Acetone
Concen: 24.271 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51



Tgt Ion: 43 Resp: 14828
Ion Ratio Lower Upper
43 100
58 36.4 28.0 42.0

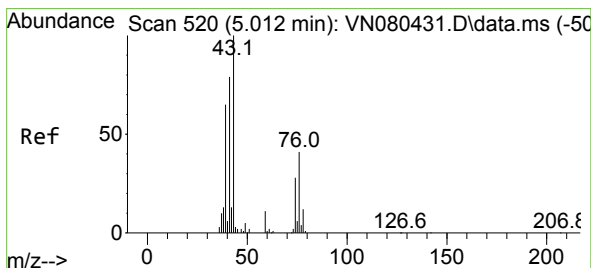
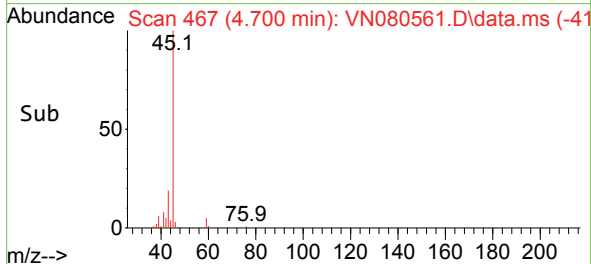
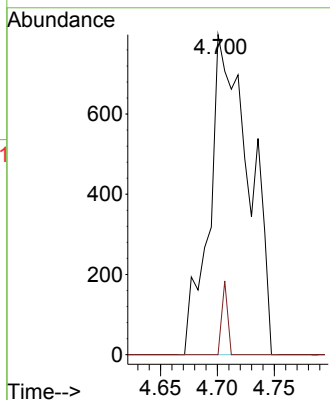
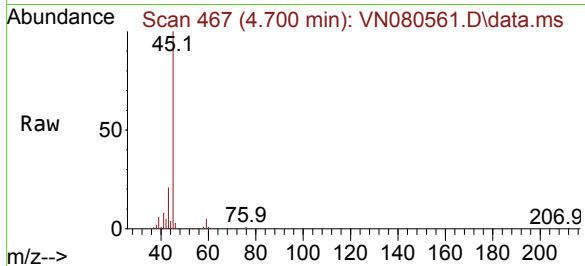




#17
Carbon Disulfide
Concen: 0.235 ug/l
RT: 4.700 min Scan# 41
Delta R.T. -0.012 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

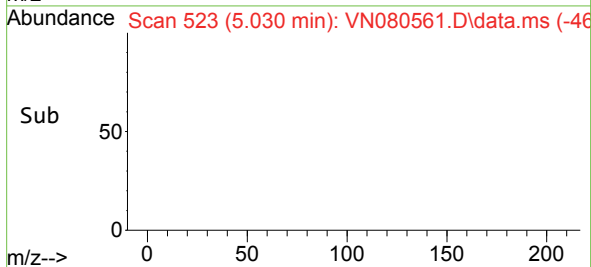
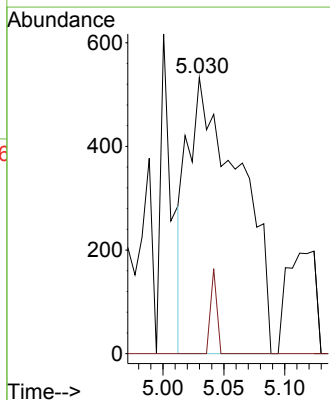
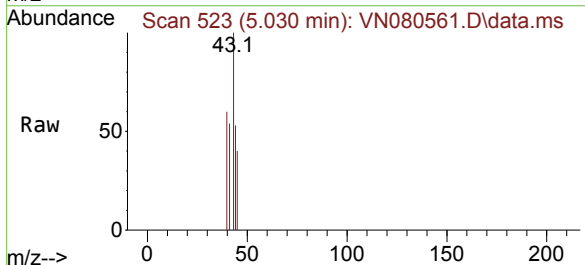
Instrument :
MSVOA_N
ClientSampleId :

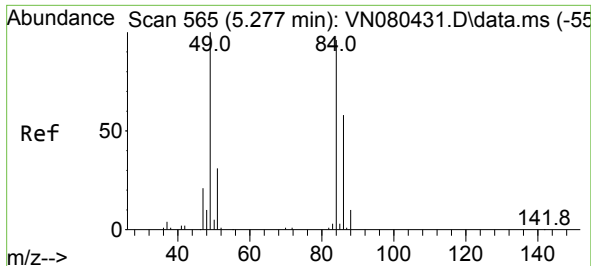
Tgt Ion: 76 Resp: 1935
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: 0.405 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.018 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

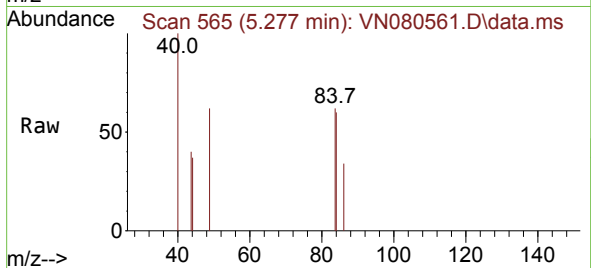
Tgt Ion: 43 Resp: 1591
Ion Ratio Lower Upper
43 100
74 3.6 26.2 39.4#



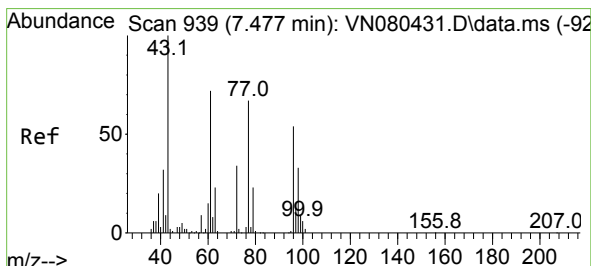
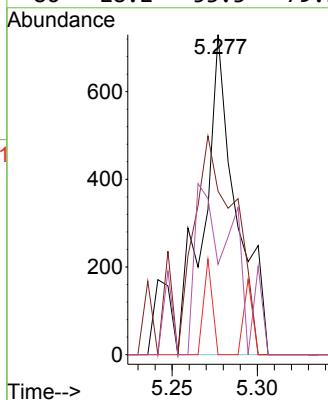
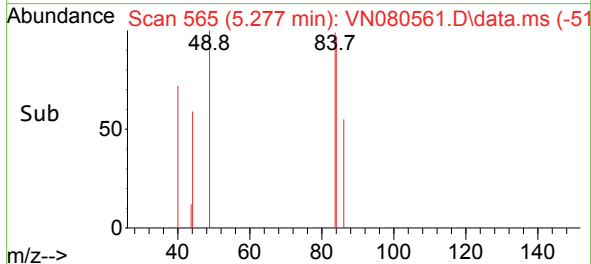


#20
Methylene Chloride
Concen: 0.296 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.000 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

Instrument :
MSVOA_N
ClientSampleId :

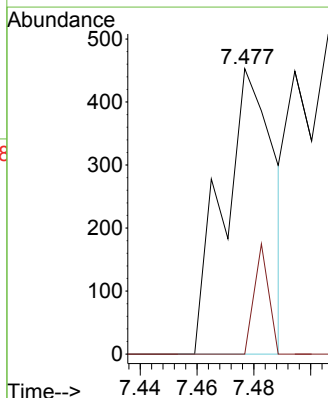
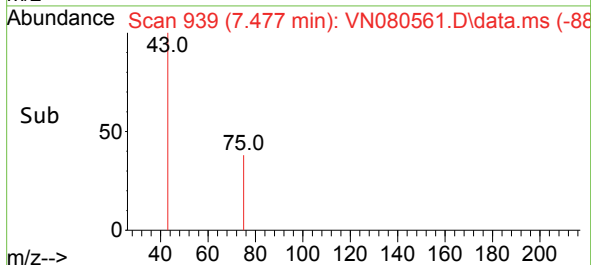
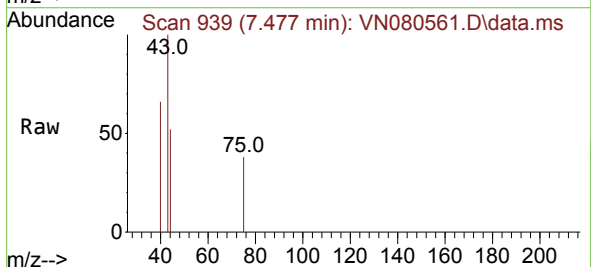


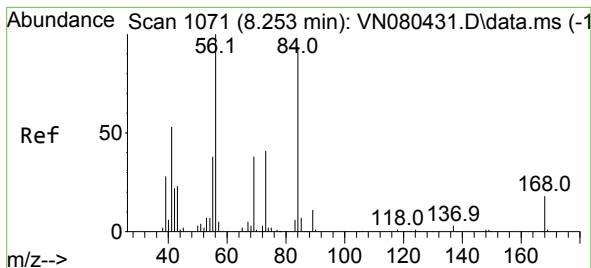
Tgt Ion: 84 Resp: 967
Ion Ratio Lower Upper
84 100
49 51.1 79.7 119.5#
51 0.0 25.2 37.8#
86 28.2 53.3 79.9#



#25
2-Butanone
Concen: 0.479 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.000 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

Tgt Ion: 43 Resp: 564
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#





#31

Cyclohexane

Concen: 1.409 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.017 min

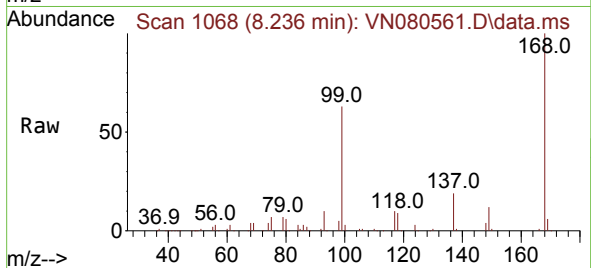
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Acq: 20 Dec 2023 20:51

Instrument :

MSVOA_N

ClientSampleId :



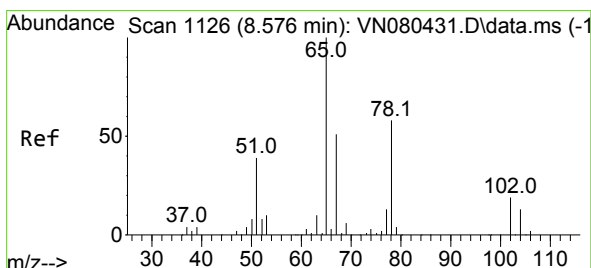
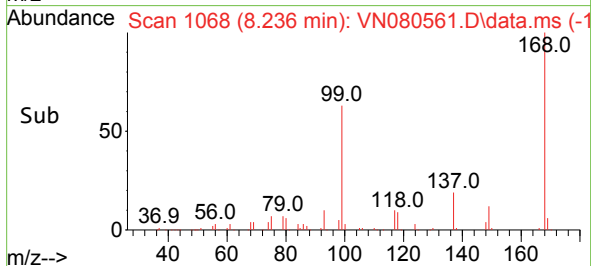
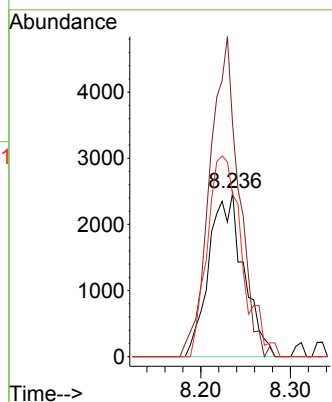
Tgt Ion: 56 Resp: 6602

Ion Ratio Lower Upper

56 100

69 140.9 26.8 40.2#

84 98.6 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 51.155 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN080561.D

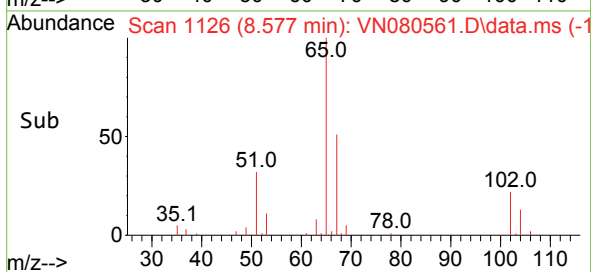
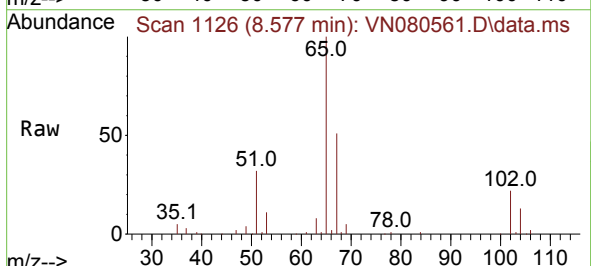
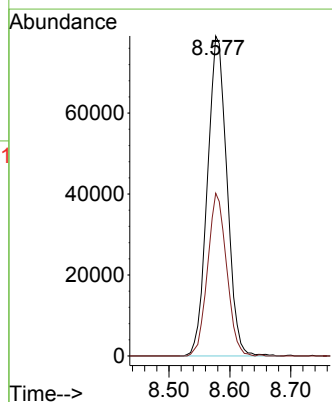
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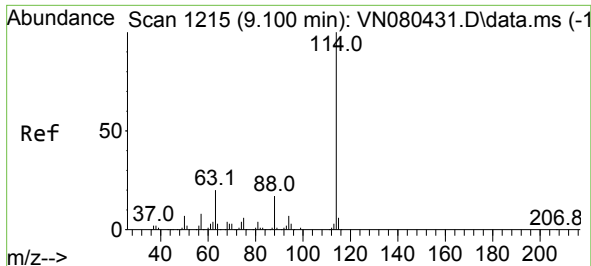
Tgt Ion: 65 Resp: 176259

Ion Ratio Lower Upper

65 100

67 49.4 0.0 106.6

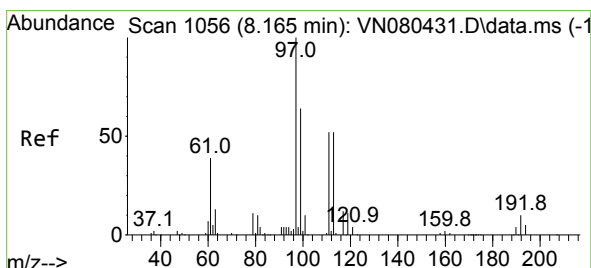
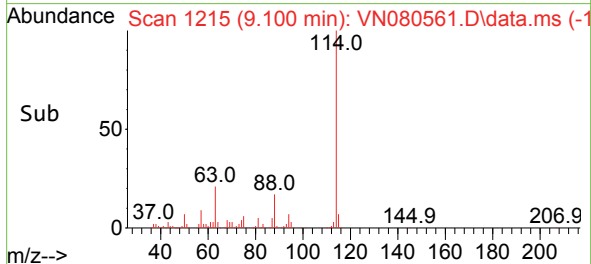
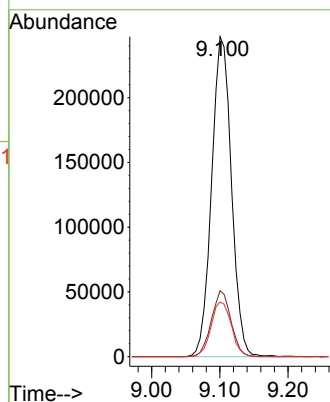
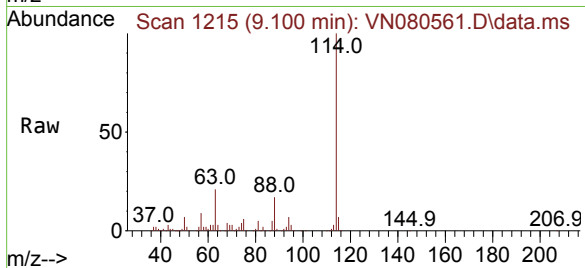




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

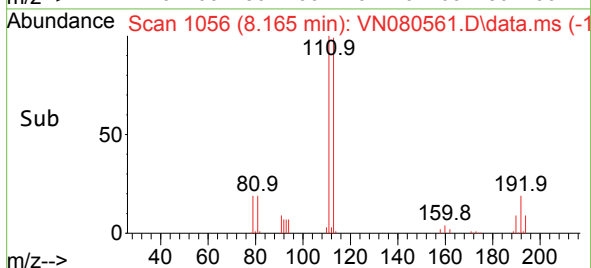
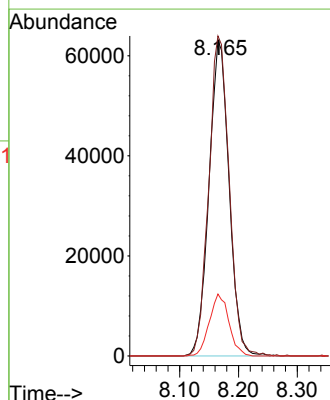
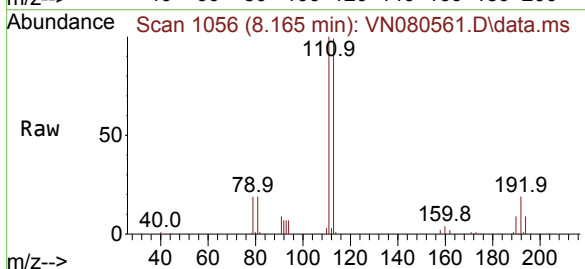
Instrument :
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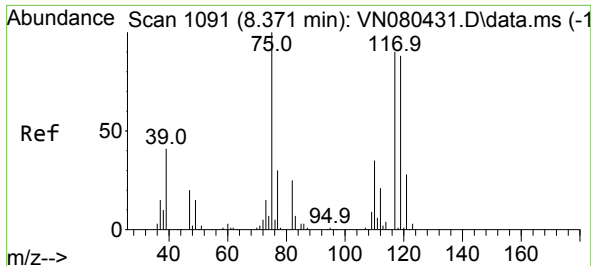
Tgt Ion:114 Resp: 499688
Ion Ratio Lower Upper
114 100
63 20.6 0.0 36.4
88 17.1 0.0 30.6



#35
Dibromofluoromethane
Concen: 47.130 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

Tgt Ion:113 Resp: 149317
Ion Ratio Lower Upper
113 100
111 103.0 82.6 123.8
192 19.1 12.7 19.1#

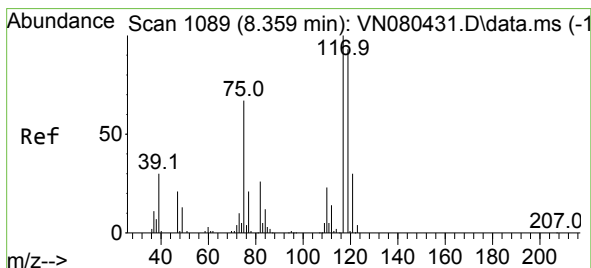
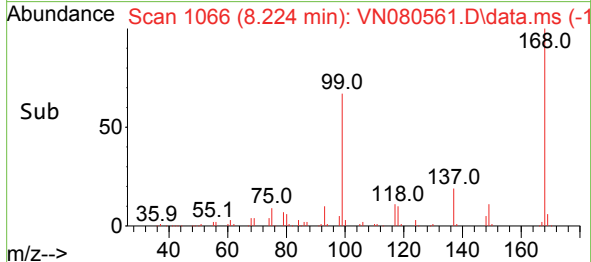
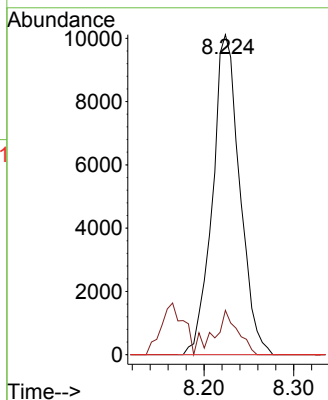
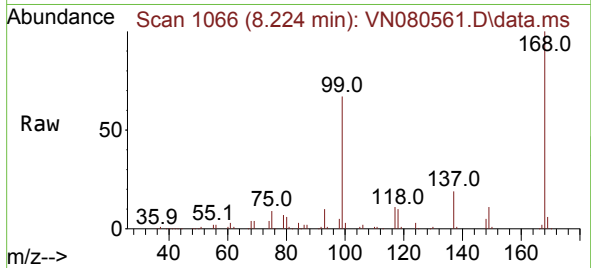




#36
1,1-Dichloropropene
Concen: 4.114 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

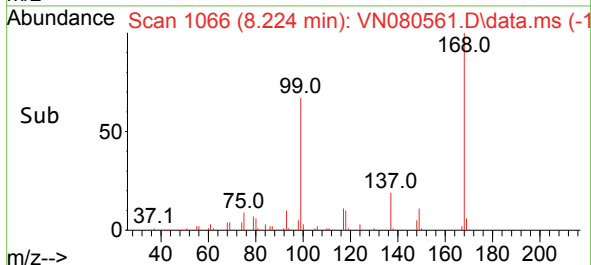
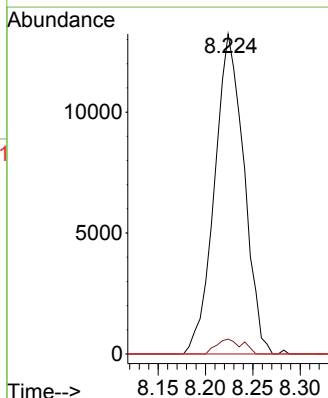
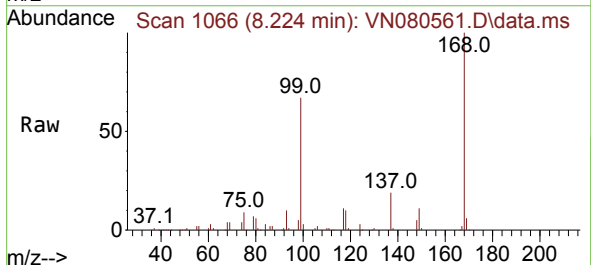
Instrument :
MSVOA_N
ClientSampleId :

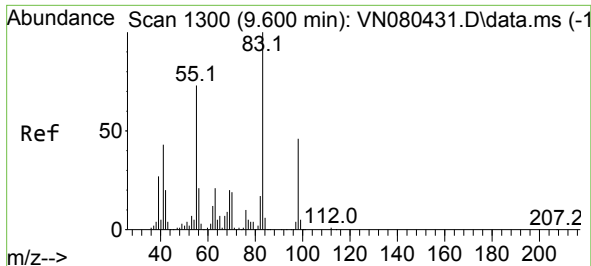
Tgt Ion: 75 Resp: 21312
Ion Ratio Lower Upper
75 100
110 10.6 19.1 57.3#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 4.615 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

Tgt Ion: 117 Resp: 28567
Ion Ratio Lower Upper
117 100
119 4.6 77.3 115.9#
121 0.0 23.3 34.9#





#39

Methylcyclohexane

Concen: 0.227 ug/l

RT: 9.606 min Scan# 1130

Delta R.T. 0.006 min

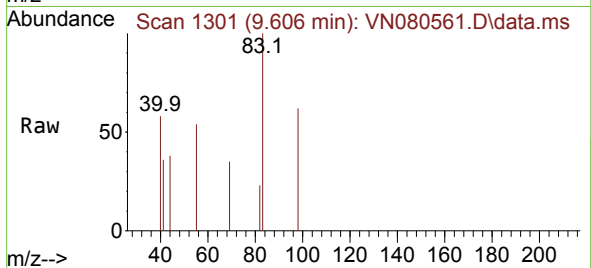
Lab File: VN080561.D

Acq: 20 Dec 2023 20:51

Instrument :

MSVOA_N

ClientSampleId :



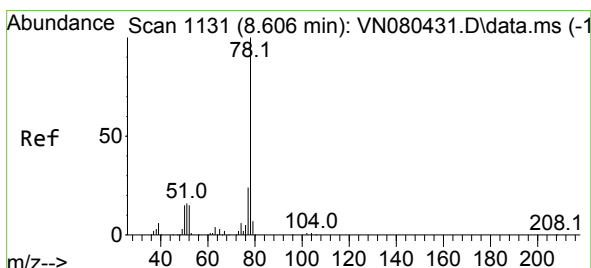
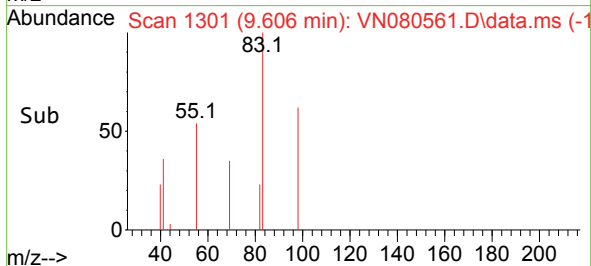
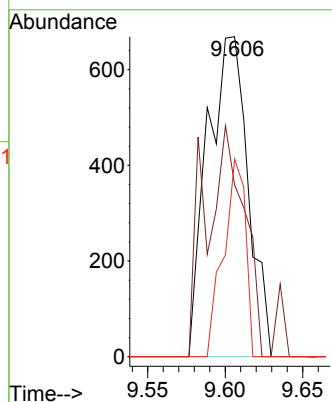
Tgt Ion: 83 Resp: 1223

Ion Ratio Lower Upper

83 100

55 53.7 49.1 73.7

98 61.7 40.6 61.0#



#40

Benzene

Concen: 0.660 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VN080561.D

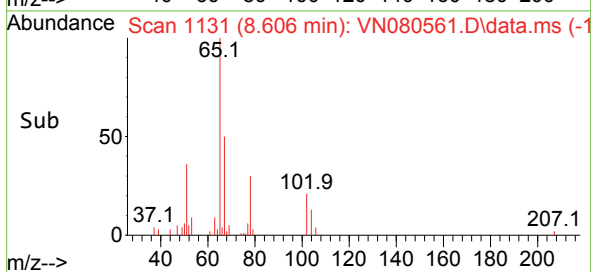
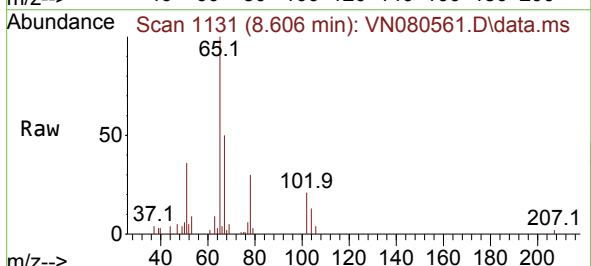
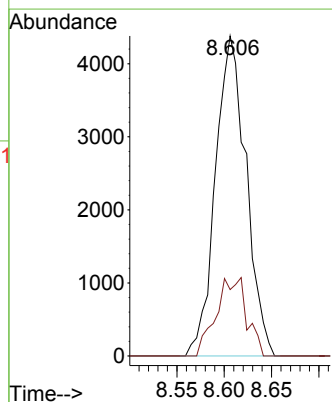
Acq: 20 Dec 2023 20:51

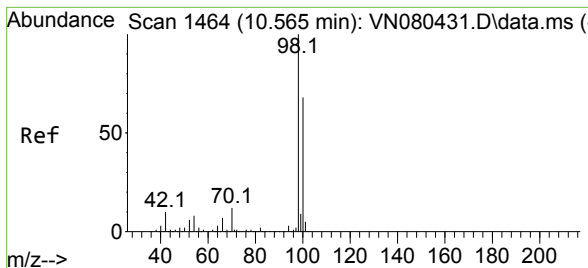
Tgt Ion: 78 Resp: 9868

Ion Ratio Lower Upper

78 100

77 20.8 19.0 28.6

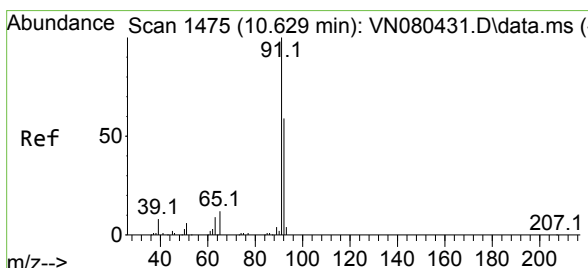
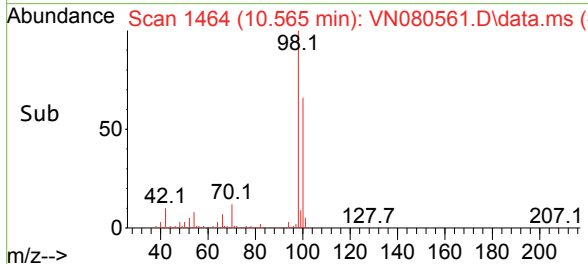
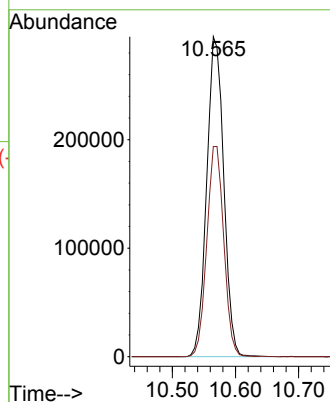
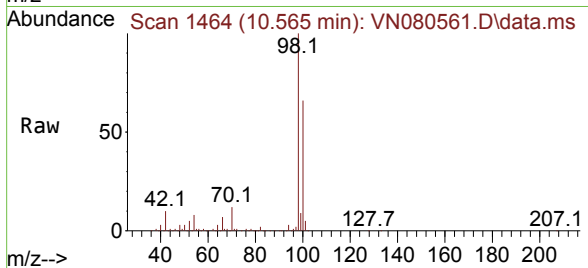




#50
Toluene-d8
Concen: 46.752 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

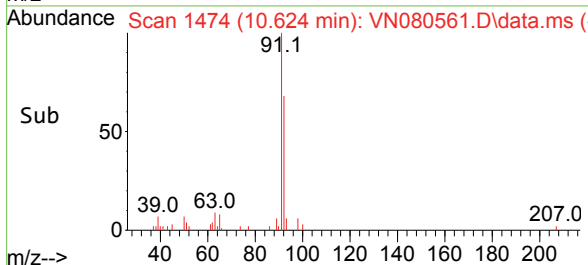
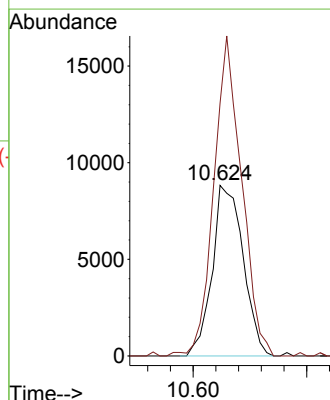
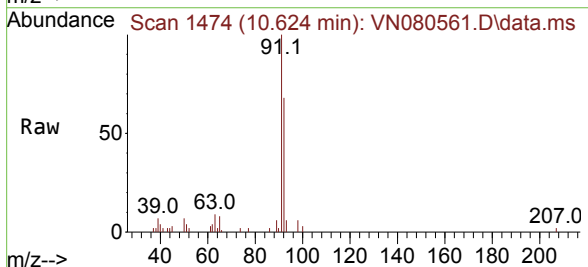
Instrument :
MSVOA_N
ClientSampleId :

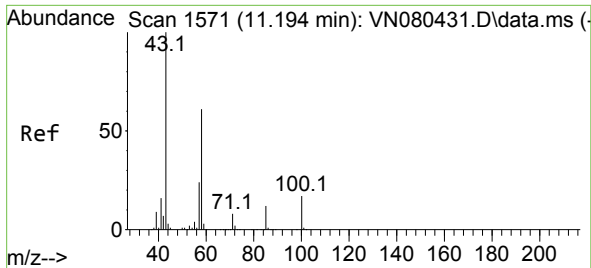
Tgt Ion: 98 Resp: 552417
Ion Ratio Lower Upper
98 100
100 65.4 52.0 78.0



#52
Toluene
Concen: 1.765 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

Tgt Ion: 92 Resp: 16678
Ion Ratio Lower Upper
92 100
91 168.8 137.4 206.0

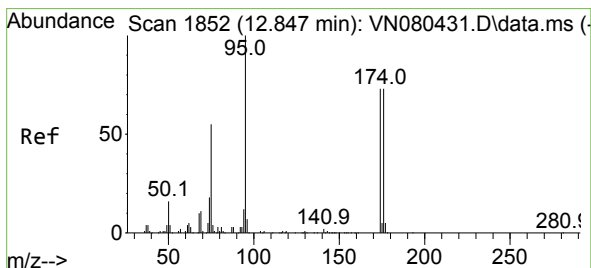
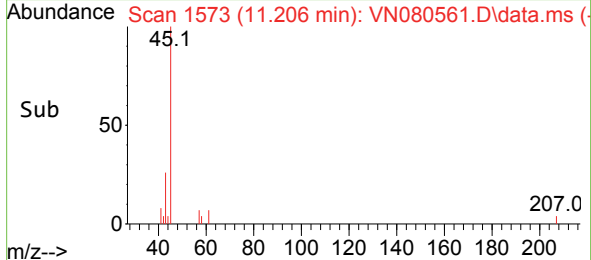
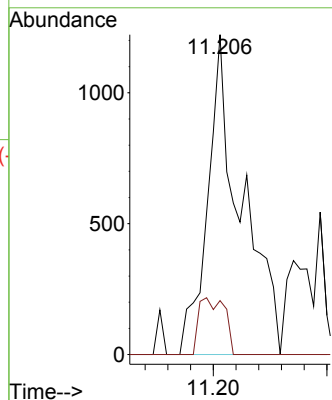
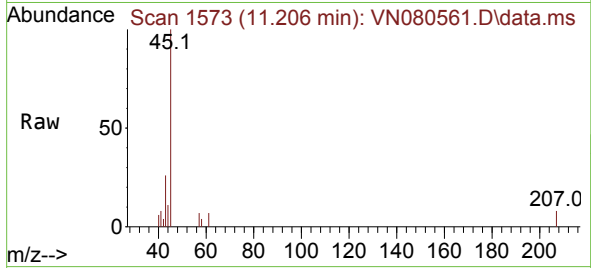




#59
2-Hexanone
Concen: 1.057 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.012 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

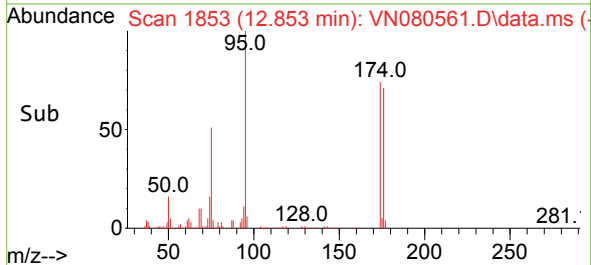
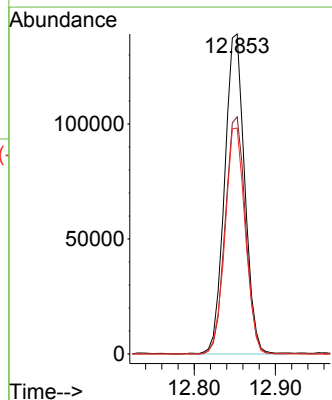
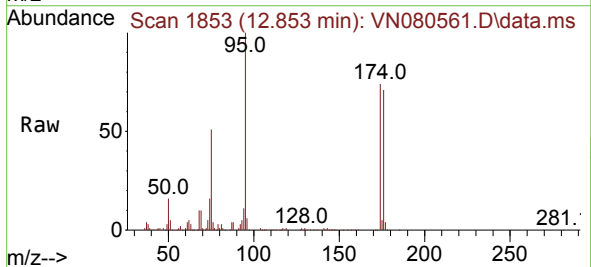
Instrument :
MSVOA_N
ClientSampleId :

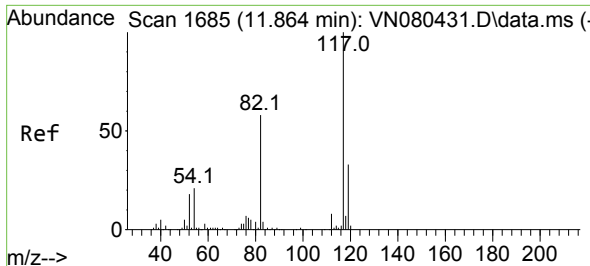
Tgt Ion: 43 Resp: 2507
Ion Ratio Lower Upper
43 100
58 13.7 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 53.329 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

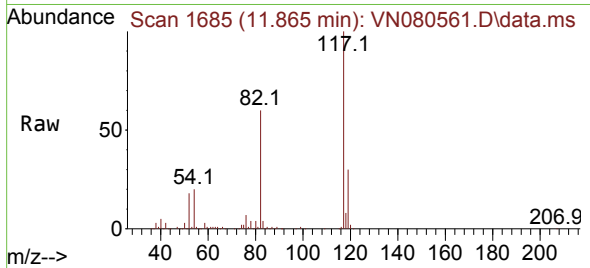
Tgt Ion: 95 Resp: 239277
Ion Ratio Lower Upper
95 100
174 74.9 0.0 143.8
176 71.2 0.0 135.8



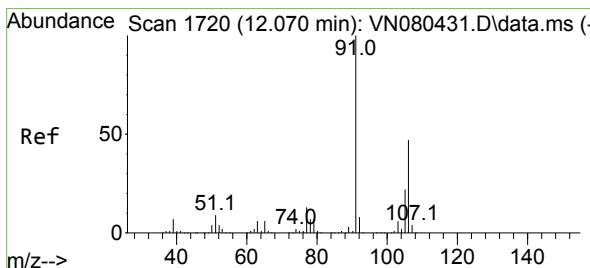
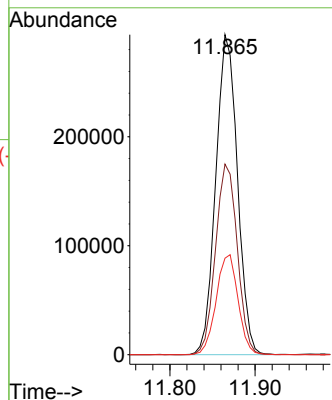
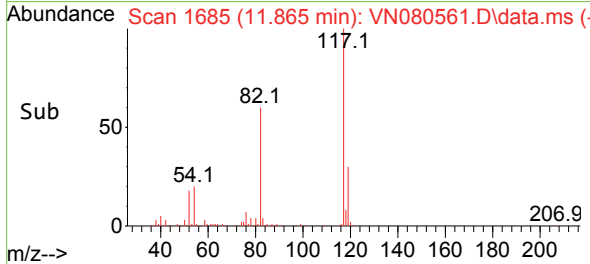


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

Instrument :
MSVOA_N
ClientSampleId :

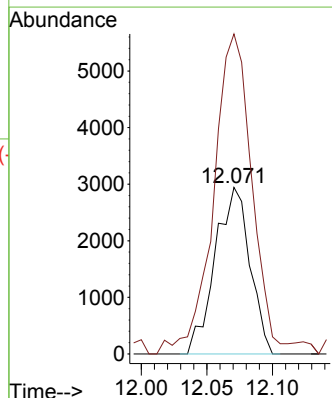
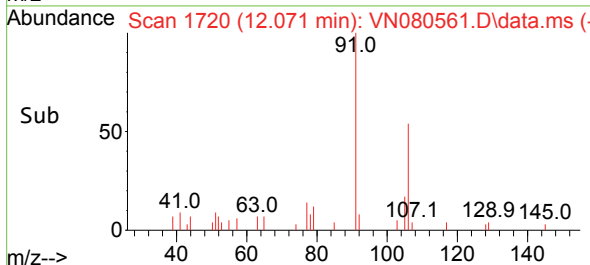
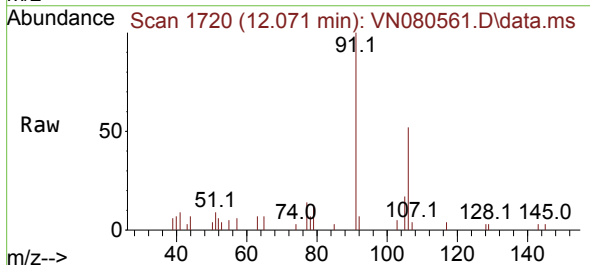


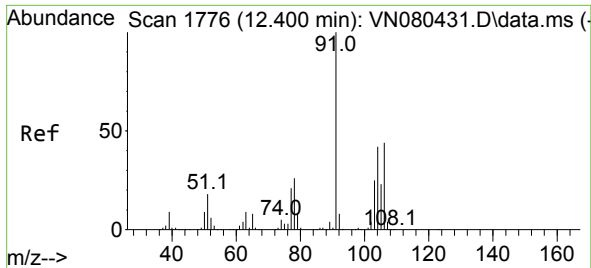
Tgt Ion:117 Resp: 519348
Ion Ratio Lower Upper
117 100
82 59.5 44.0 66.0
119 30.2 25.6 38.4



#68
m/p-Xylenes
Concen: 0.691 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

Tgt Ion:106 Resp: 5428
Ion Ratio Lower Upper
106 100
91 212.0 159.6 239.4

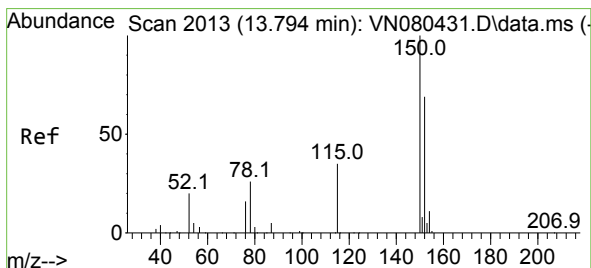
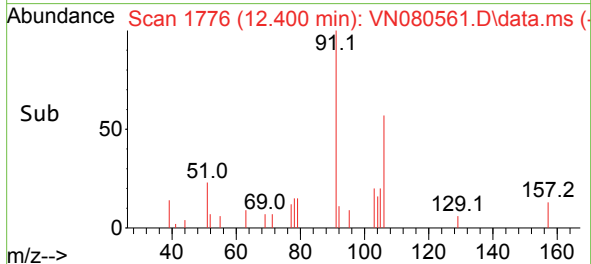
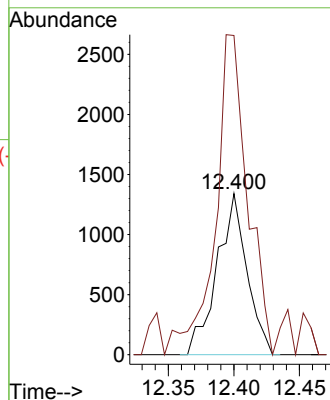
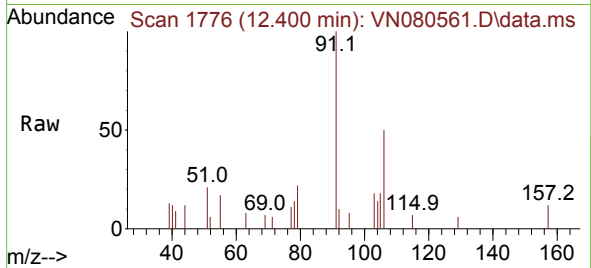




#69
o-Xylene
Concen: 0.277 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

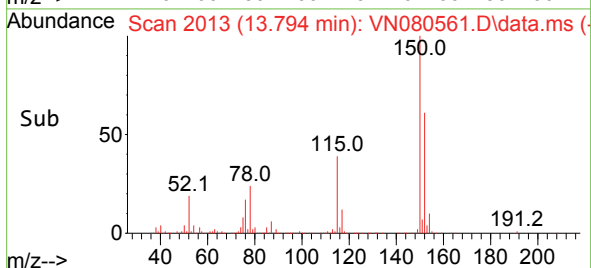
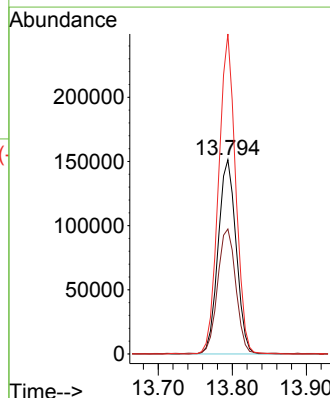
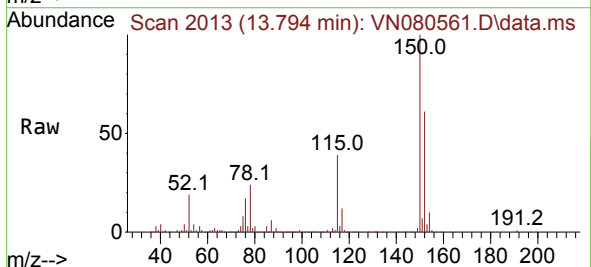
Instrument :
MSVOA_N
ClientSampleId :

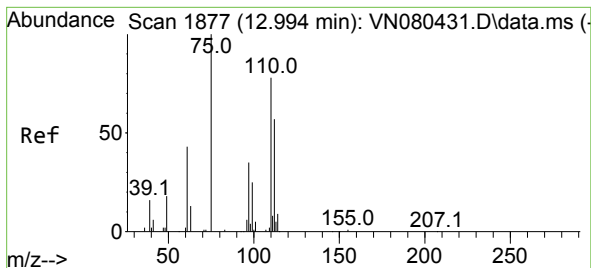
Tgt Ion:106 Resp: 2128
Ion Ratio Lower Upper
106 100
91 213.5 105.2 315.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

Tgt Ion:152 Resp: 255183
Ion Ratio Lower Upper
152 100
115 64.7 32.3 96.8
150 156.1 0.0 355.8





#76

1,2,3-Trichloropropane

Concen: 24.973 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN080561.D

Acq: 20 Dec 2023 20:51

Instrument :

MSVOA_N

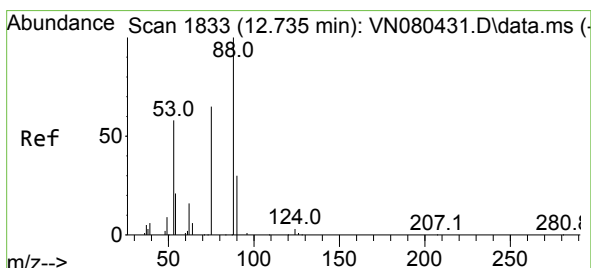
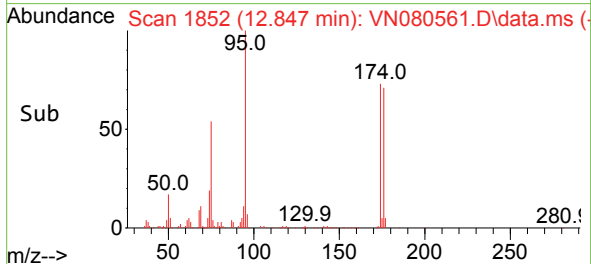
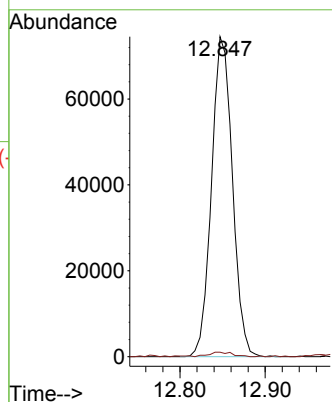
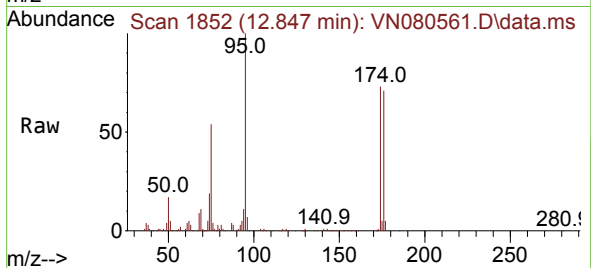
ClientSampleId :

Tgt Ion: 75 Resp: 127134

Ion Ratio Lower Upper

75 100

77 1.6 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.569 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN080561.D

Acq: 20 Dec 2023 20:51

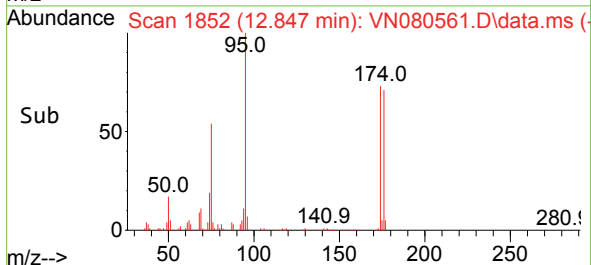
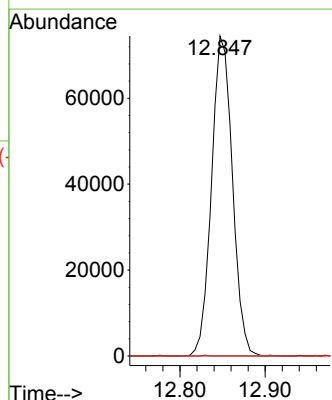
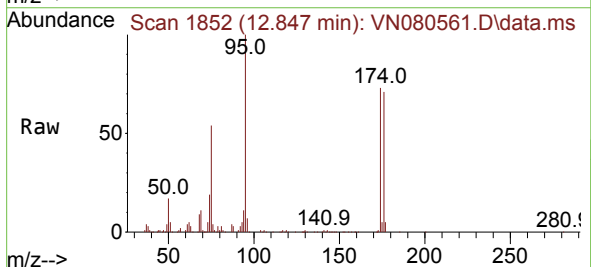
Tgt Ion: 75 Resp: 127134

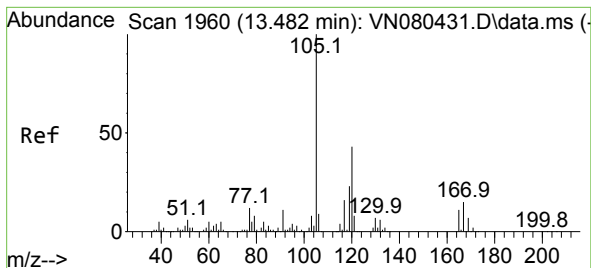
Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.2#

89 0.0 38.8 58.2#





#84

1,2,4-Trimethylbenzene

Concen: 0.280 ug/l

RT: 13.488 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN080561.D

Acq: 20 Dec 2023 20:51

Instrument :

MSVOA_N

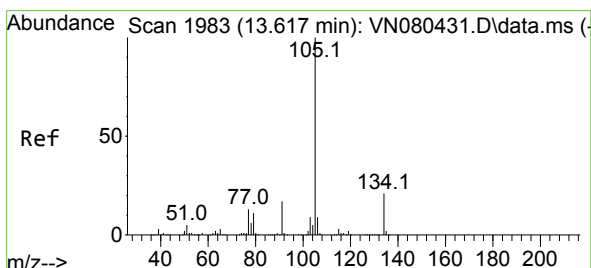
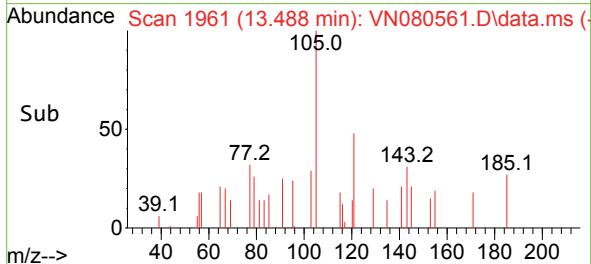
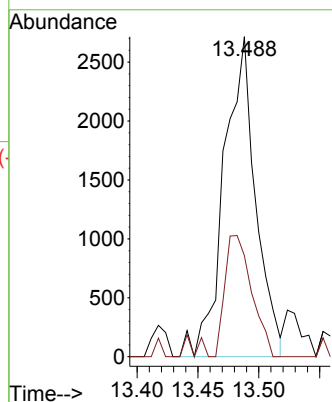
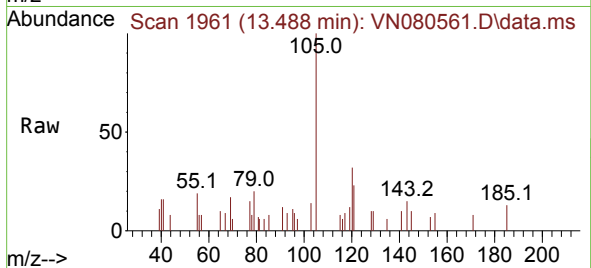
ClientSampleId :

Tgt Ion:105 Resp: 4922

Ion Ratio Lower Upper

105 100

120 32.1 22.0 66.0



#85

sec-Butylbenzene

Concen: 0.222 ug/l

RT: 13.618 min Scan# 1983

Delta R.T. 0.000 min

Lab File: VN080561.D

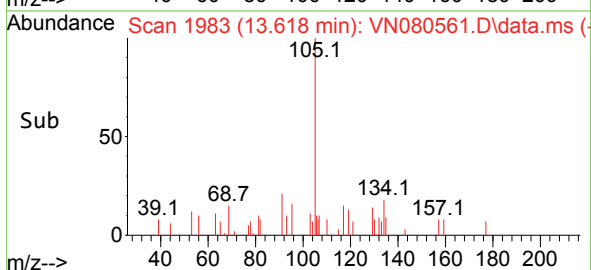
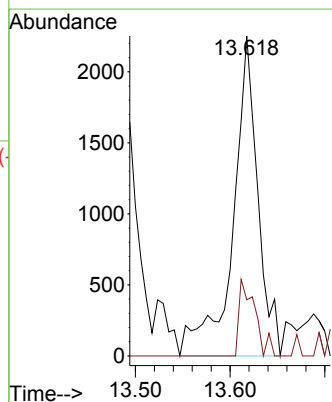
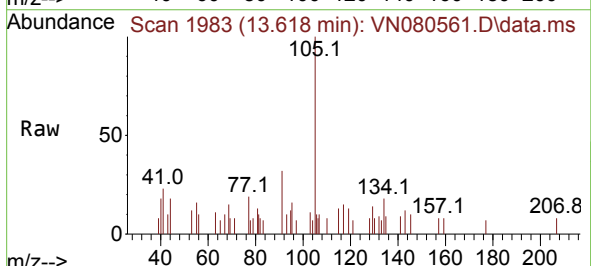
Acq: 20 Dec 2023 20:51

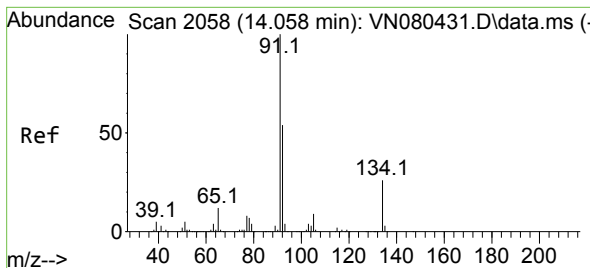
Tgt Ion:105 Resp: 4111

Ion Ratio Lower Upper

105 100

134 15.2 9.8 29.3





#89

n-Butylbenzene

Concen: 0.301 ug/l

RT: 14.065 min Scan# 2058

Delta R.T. 0.006 min

Lab File: VN080561.D

Acq: 20 Dec 2023 20:51

Instrument :

MSVOA_N

ClientSampleId :

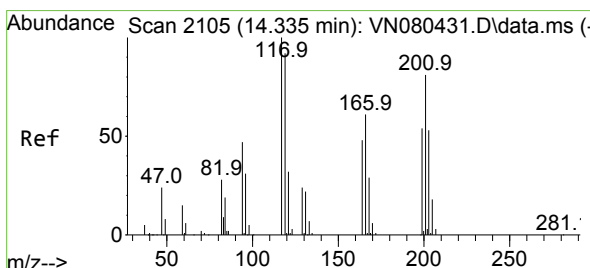
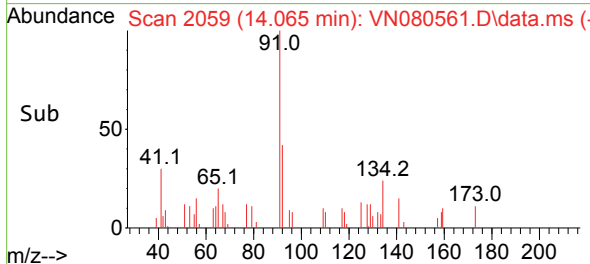
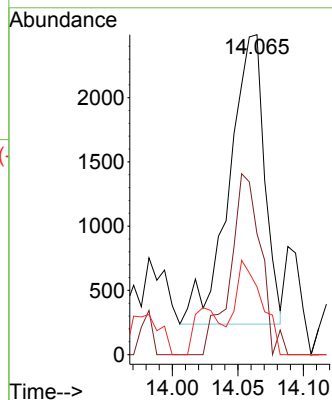
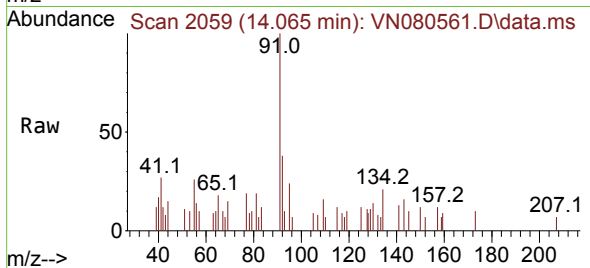
Tgt Ion: 91 Resp: 4199

Ion Ratio Lower Upper

91 100

92 54.0 26.4 79.0

134 24.2 12.6 37.6



#90

Hexachloroethane

Concen: 0.424 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. 0.000 min

Lab File: VN080561.D

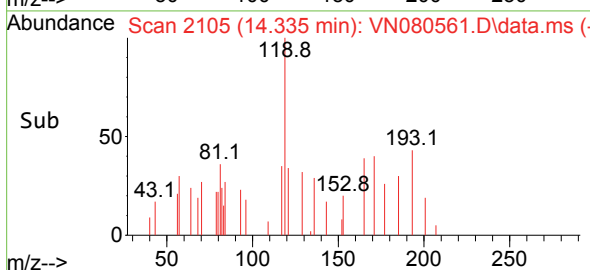
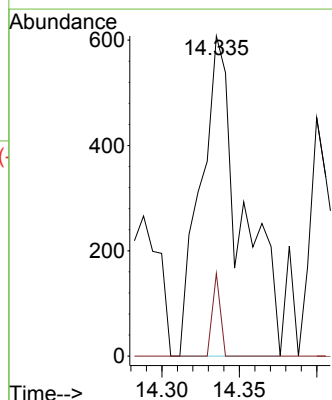
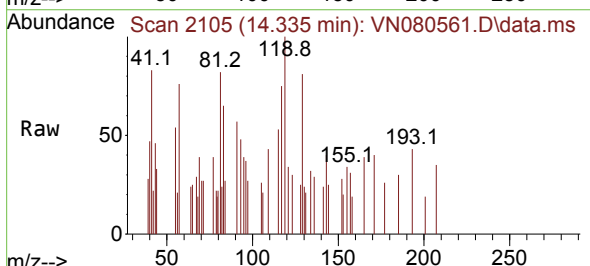
Acq: 20 Dec 2023 20:51

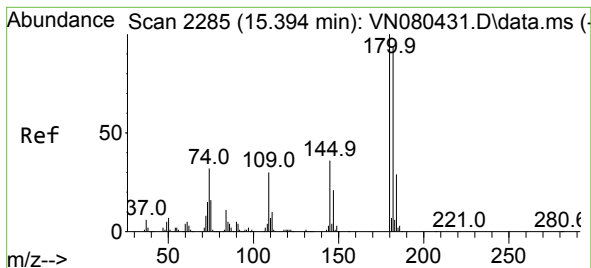
Tgt Ion: 117 Resp: 1124

Ion Ratio Lower Upper

117 100

201 4.9 29.3 88.0#





#93

1,2,4-Trichlorobenzene

Concen: 0.384 ug/l

RT: 15.400 min Scan# 21

Delta R.T. 0.006 min

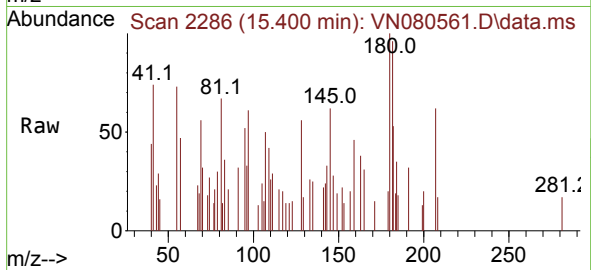
Lab File: VN080561.D

Acq: 20 Dec 2023 20:51

Instrument :

MSVOA_N

ClientSampleId :



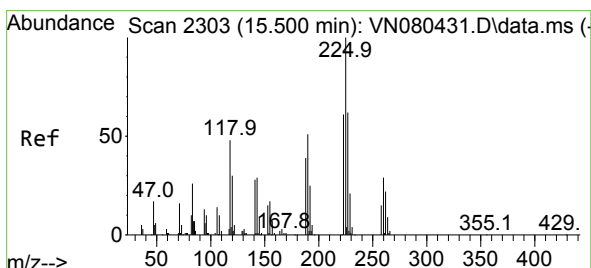
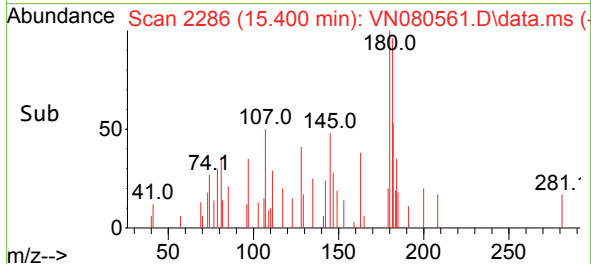
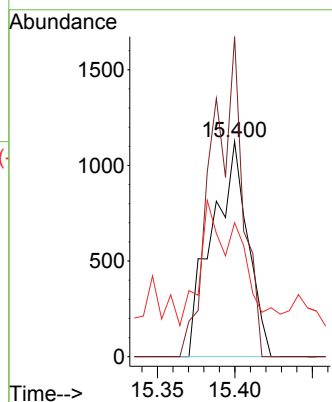
Tgt Ion:180 Resp: 1797

Ion Ratio Lower Upper

180 100

182 128.6 46.1 138.2

145 62.5 16.6 49.8#



#94

Hexachlorobutadiene

Concen: 0.485 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. -0.006 min

Lab File: VN080561.D

Acq: 20 Dec 2023 20:51

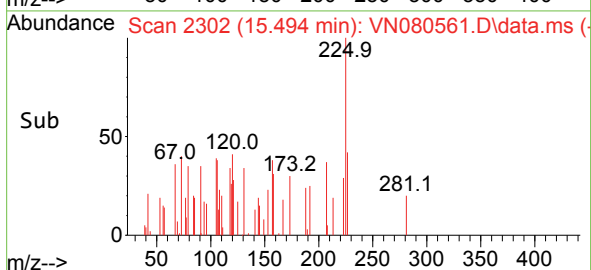
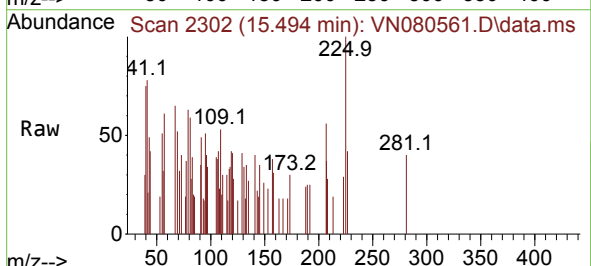
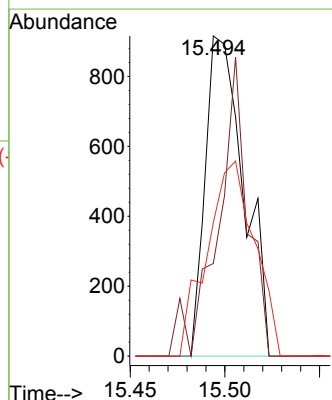
Tgt Ion:225 Resp: 1293

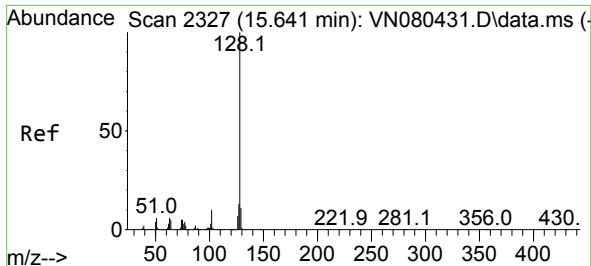
Ion Ratio Lower Upper

225 100

223 72.9 31.3 93.8

227 75.5 31.9 95.9

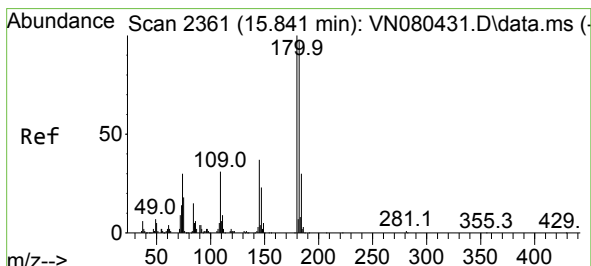
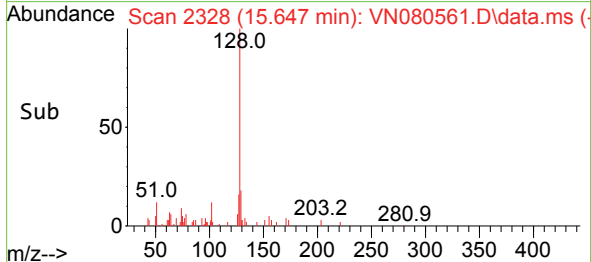
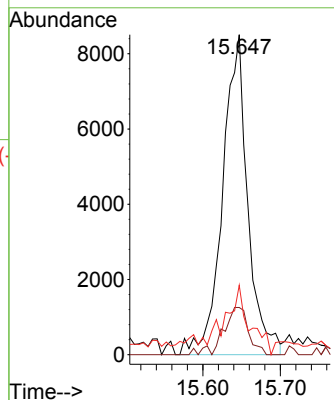
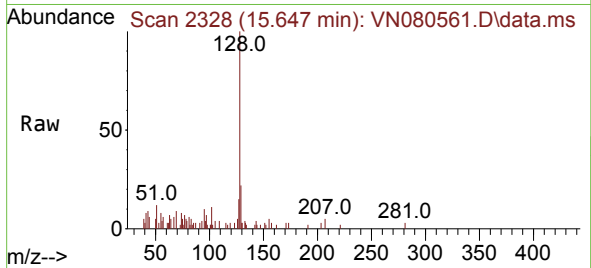




#95
Naphthalene
Concen: 1.351 ug/l
RT: 15.647 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 19216
Ion Ratio Lower Upper
128 100
127 14.8 10.0 15.0
129 21.0 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 0.412 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.006 min
Lab File: VN080561.D
Acq: 20 Dec 2023 20:51

Tgt Ion:180 Resp: 1864
Ion Ratio Lower Upper
180 100
182 80.2 46.2 138.6
145 82.3 17.5 52.6#

