

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110723\
 Data File : VN079978.D
 Acq On : 07 Nov 2023 20:34
 Operator : JC\MD
 Sample : 05107-34 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 1081

Quant Time: Nov 08 04:35:51 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)

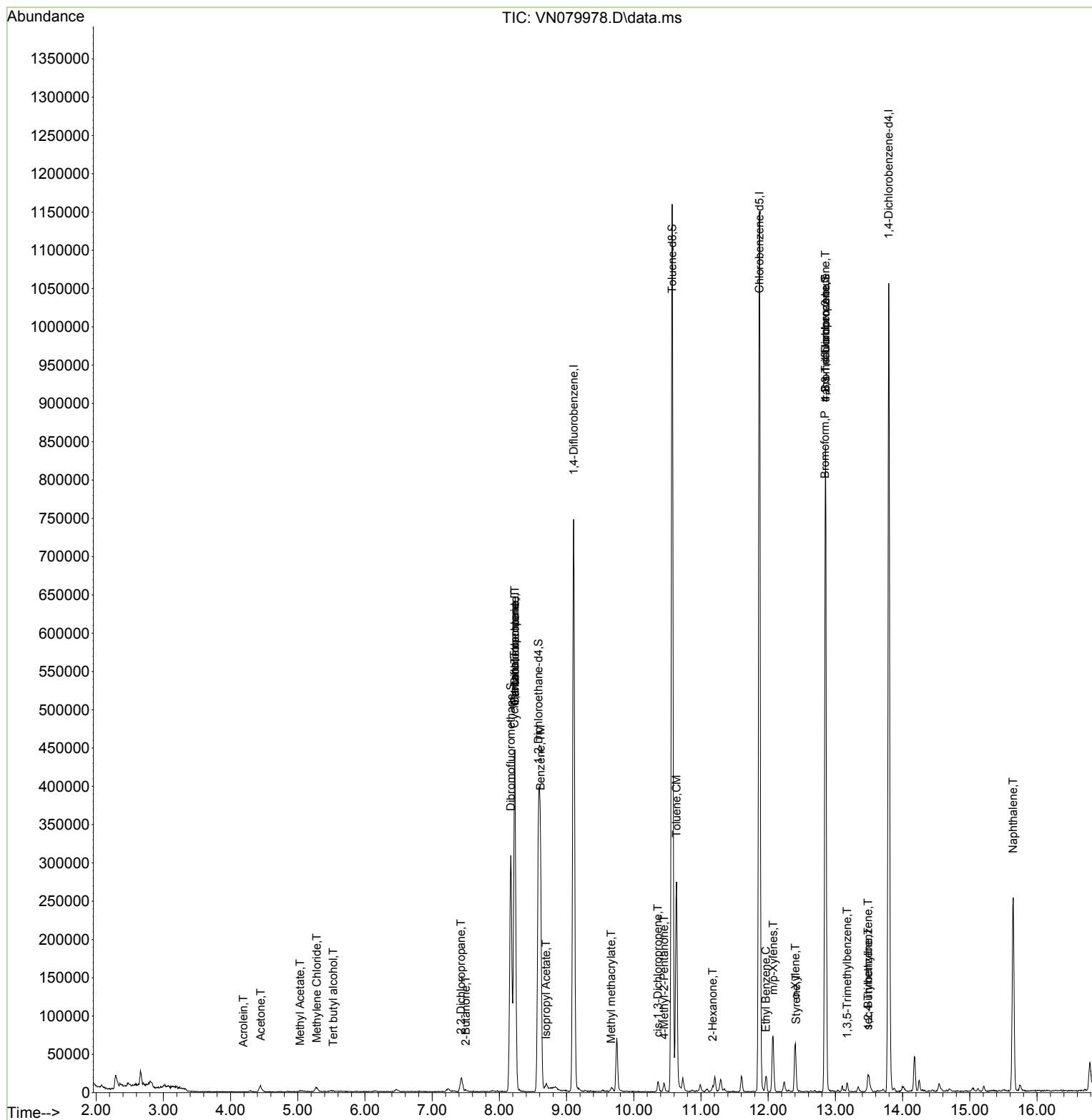
Internal Standards						
1) Pentafluorobenzene	8.230	168	305026	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	621609	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	645081	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	269261	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	264000	56.809	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.620%			
35) Dibromofluoromethane	8.171	113	219146	49.812	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.620%			
50) Toluene-d8	10.571	98	775934	47.909	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.820%			
62) 4-Bromofluorobenzene	12.853	95	284591	52.982	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.960%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	1408	Below Cal		91
11) Tert butyl alcohol	5.530	59	723	1.219 ug/l #		72
13) Acrolein	4.189	56	177	2.892 ug/l #		16
16) Acetone	4.447	43	14741	9.030 ug/l		96
18) Methyl Acetate	5.036	43	2164	0.277 ug/l #		53
20) Methylene Chloride	5.283	84	3959	0.961 ug/l #		79
25) 2-Butanone	7.500	43	3284	1.374 ug/l		92
26) 2,2-Dichloropropane	7.430	77	1381	0.236 ug/l #		53
31) Cyclohexane	8.224	56	7864	1.281 ug/l #		1
36) 1,1-Dichloropropene	8.230	75	27478	4.374 ug/l #		49
38) Carbon Tetrachloride	8.230	117	32769	5.176 ug/l #		18
40) Benzene	8.612	78	295278	15.694 ug/l		99
43) Isopropyl Acetate	8.694	43	11164	1.105 ug/l #		76
48) Methyl methacrylate	9.665	41	1095	0.247 ug/l #		15
51) 4-Methyl-2-Pentanone	10.453	43	8342	1.467 ug/l #		85
52) Toluene	10.635	92	115672	10.370 ug/l		98
54) cis-1,3-Dichloropropene	10.359	75	2097	0.280 ug/l #		58
59) 2-Hexanone	11.176	43	8297	1.907 ug/l #		19
67) Ethyl Benzene	11.965	91	13914	0.571 ug/l #		88
68) m/p-Xylenes	12.076	106	23212	2.556 ug/l		96
69) o-Xylene	12.406	106	16942	1.937 ug/l		94
70) Styrene	12.418	104	4101	0.292 ug/l #		15
71) Bromoform	12.847	173	1400	0.391 ug/l #		1
76) 1,2,3-Trichloropropane	12.853	75	158274	25.038 ug/l #		1
80) 1,3,5-Trimethylbenzene	13.176	105	4672	0.294 ug/l		83
81) trans-1,4-Dichloro-2-b...	12.853	75	158274	68.121 ug/l #		15
84) 1,2,4-Trimethylbenzene	13.488	105	15476	0.989 ug/l		80
85) sec-Butylbenzene	13.488	105	15476	0.858 ug/l #		57
95) Naphthalene	15.647	128	230102	16.242 ug/l		99

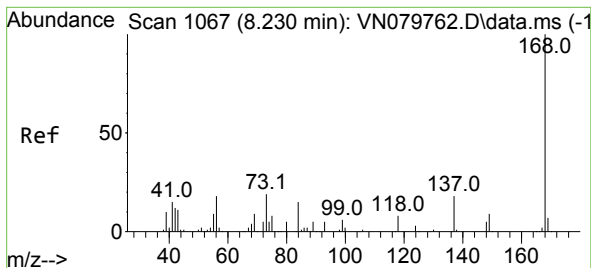
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Nov 02 05:49:08 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. 0.001 min

Lab File: VN079978.D

Acq: 07 Nov 2023 20:34

Instrument :

MSVOA_N

ClientSampleId :

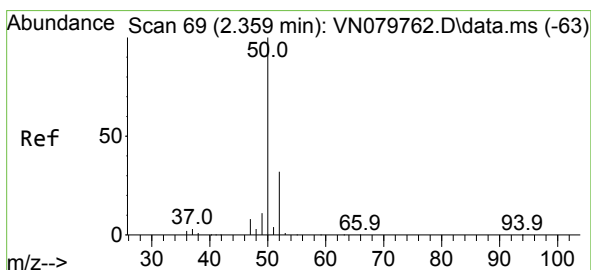
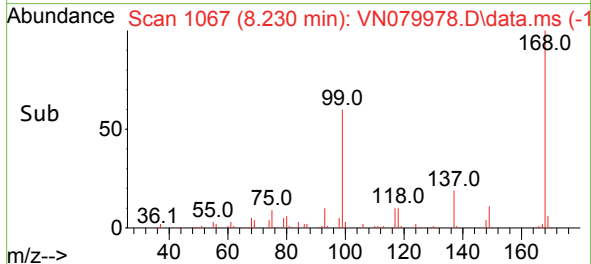
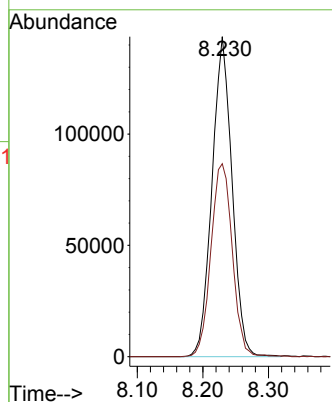
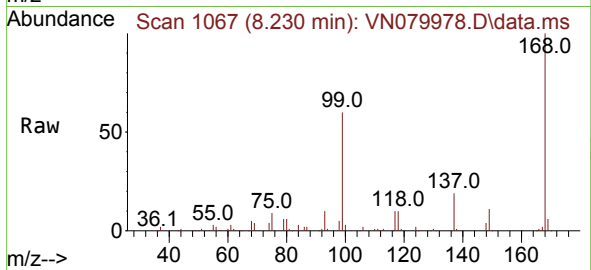
1081

Tgt Ion:168 Resp: 305026

Ion Ratio Lower Upper

168 100

99 60.3 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN079978.D

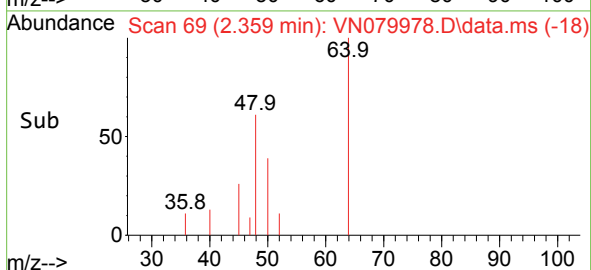
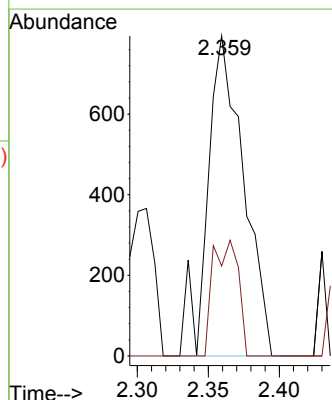
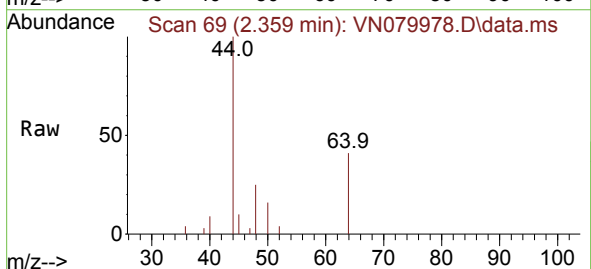
Acq: 07 Nov 2023 20:34

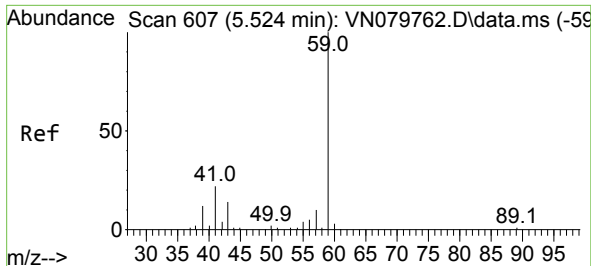
Tgt Ion: 50 Resp: 1408

Ion Ratio Lower Upper

50 100

52 28.1 26.5 39.7

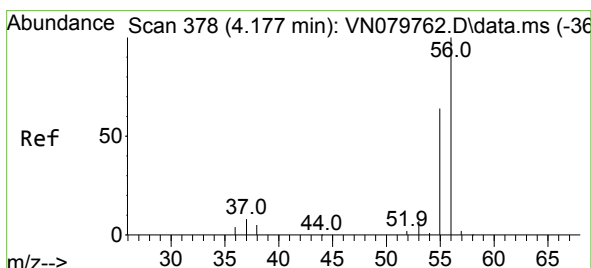
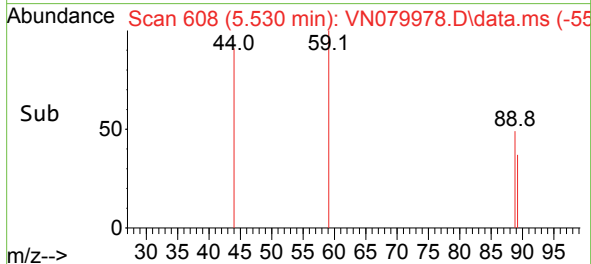
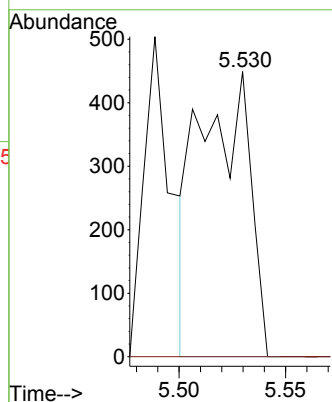
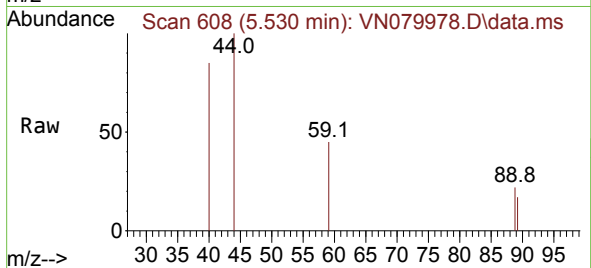




#11
Tert butyl alcohol
Concen: 1.219 ug/l
RT: 5.530 min Scan# 607
Delta R.T. 0.012 min
Lab File: VN079978.D
Acq: 07 Nov 2023 20:34

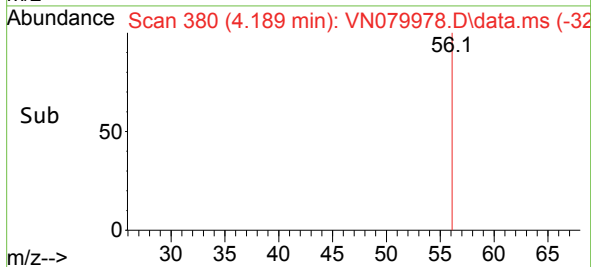
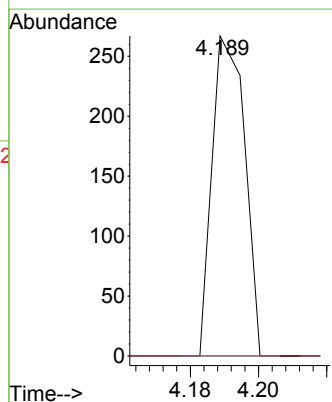
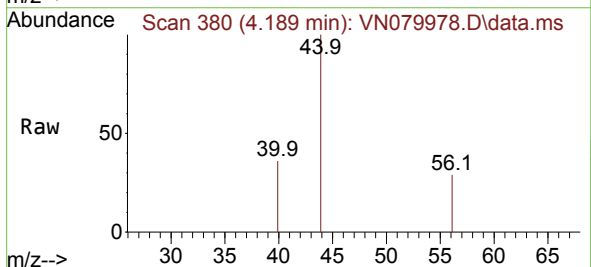
Instrument :
MSVOA_N
ClientSampleId :
1081

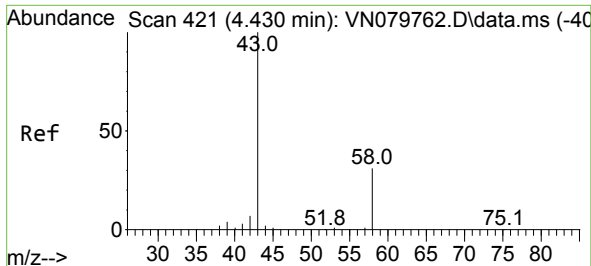
Tgt Ion: 59 Resp: 723
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 2.892 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.006 min
Lab File: VN079978.D
Acq: 07 Nov 2023 20:34

Tgt Ion: 56 Resp: 177
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#

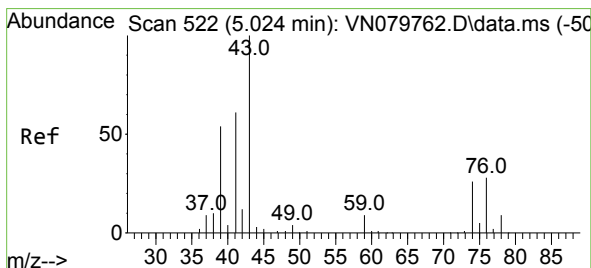
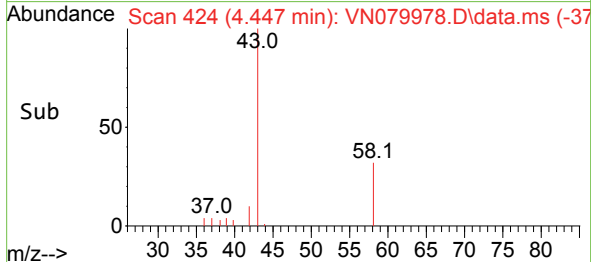
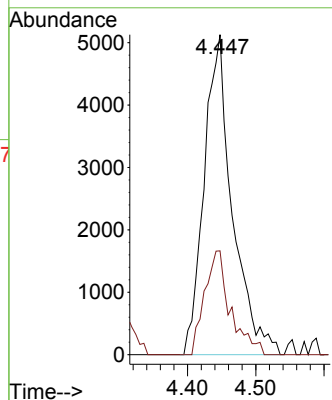
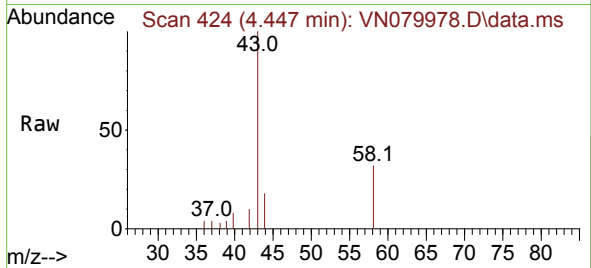




#16
Acetone
Concen: 9.030 ug/l
RT: 4.447 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN079978.D
Acq: 07 Nov 2023 20:34

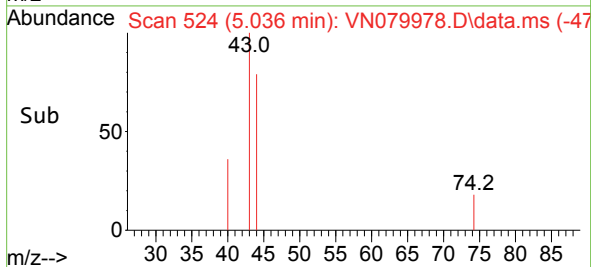
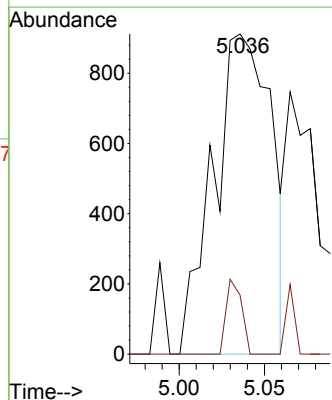
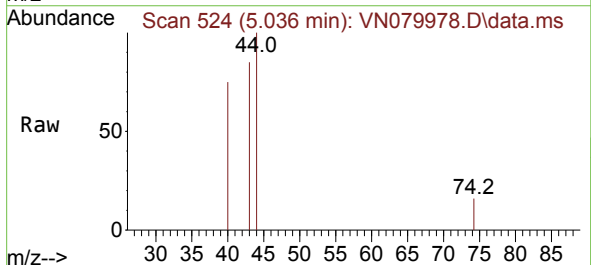
Instrument :
MSVOA_N
ClientSampleId :
1081

Tgt Ion: 43 Resp: 14741
Ion Ratio Lower Upper
43 100
58 32.5 28.0 42.0



#18
Methyl Acetate
Concen: 0.277 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.012 min
Lab File: VN079978.D
Acq: 07 Nov 2023 20:34

Tgt Ion: 43 Resp: 2164
Ion Ratio Lower Upper
43 100
74 6.2 26.2 39.4#

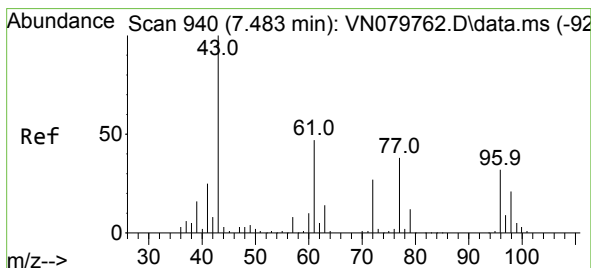
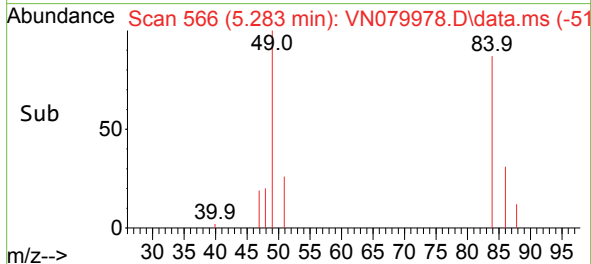
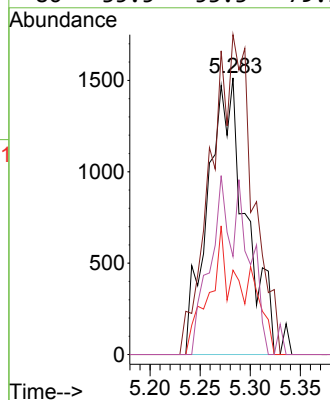
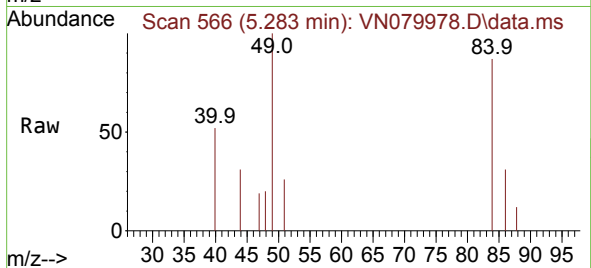




#20
Methylene Chloride
Concen: 0.961 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN079978.D
Acq: 07 Nov 2023 20:34

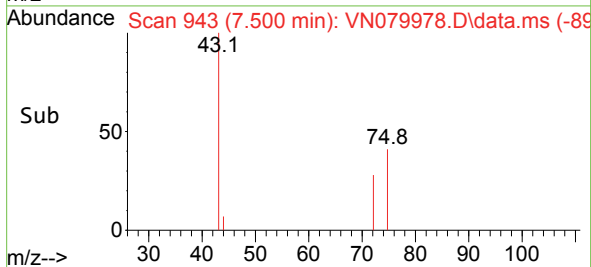
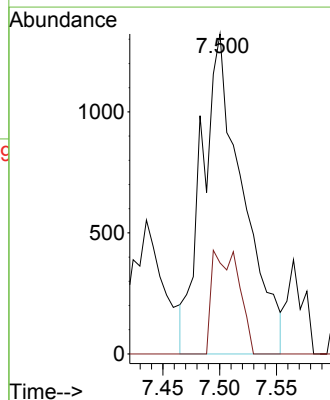
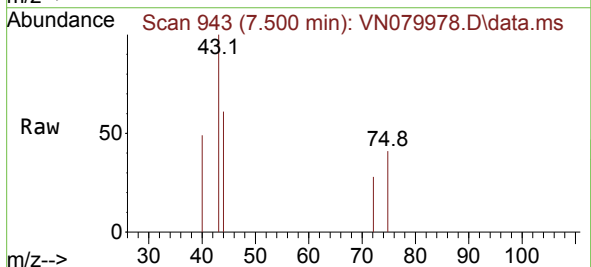
Instrument :
MSVOA_N
ClientSampleId :
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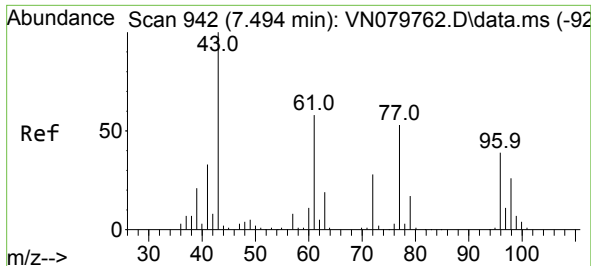
Tgt Ion:	84	Resp:	3959
Ion	Ratio	Lower	Upper
84	100		
49	115.6	79.7	119.5
51	30.5	25.2	37.8
86	35.5	53.3	79.9



#25
2-Butanone
Concen: 1.374 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.012 min
Lab File: VN079978.D
Acq: 07 Nov 2023 20:34

Tgt Ion:	43	Resp:	3284
Ion	Ratio	Lower	Upper
43	100		
72	32.7	30.2	45.2

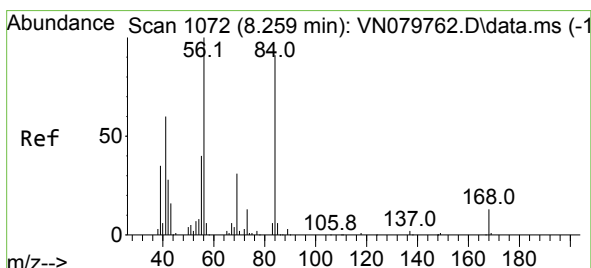
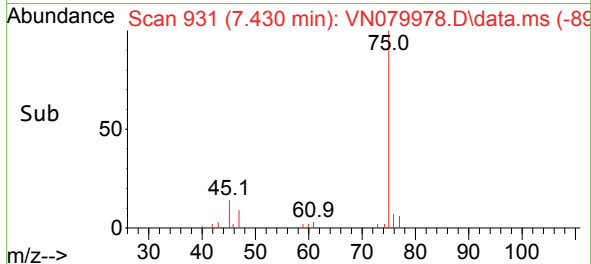
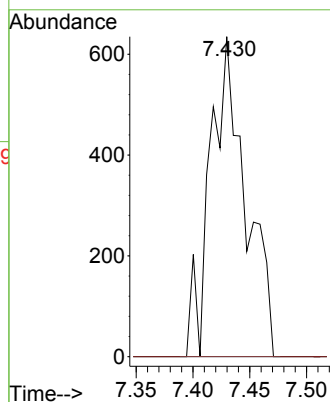
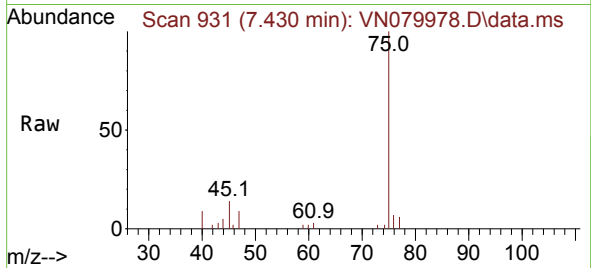




#26
2,2-Dichloropropane
Concen: 0.236 ug/l
RT: 7.430 min Scan# 91
Delta R.T. -0.059 min
Lab File: VN079978.D
Acq: 07 Nov 2023 20:34

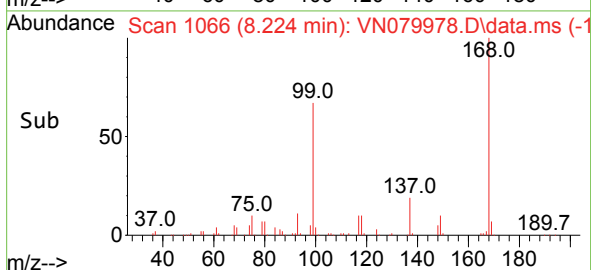
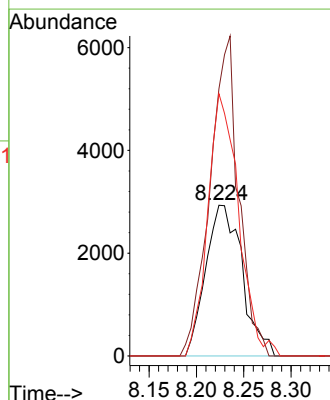
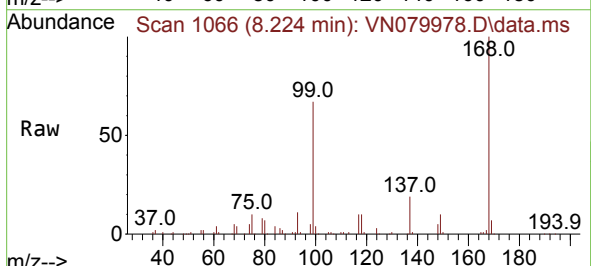
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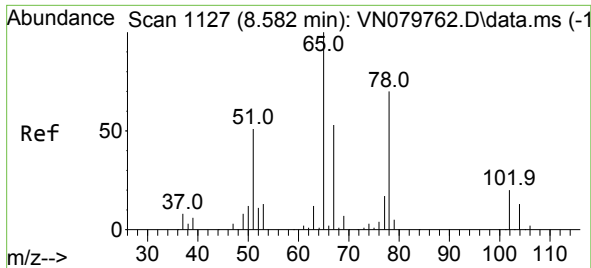
Tgt Ion: 77 Resp: 1381
Ion Ratio Lower Upper
77 100
97 0.0 11.2 33.6#



#31
Cyclohexane
Concen: 1.281 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN079978.D
Acq: 07 Nov 2023 20:34

Tgt Ion: 56 Resp: 7864
Ion Ratio Lower Upper
56 100
69 177.1 26.8 40.2#
84 174.0 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 56.809 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079978.D

Acq: 07 Nov 2023 20:34

Instrument :

MSVOA_N

ClientSampleId :

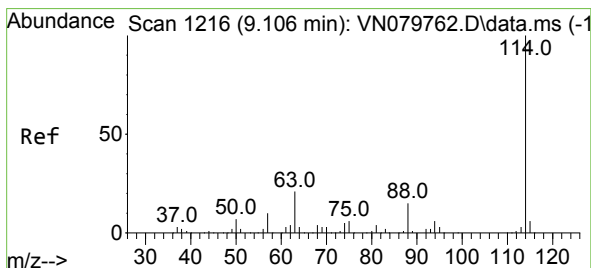
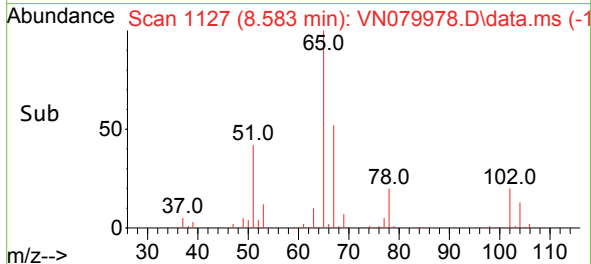
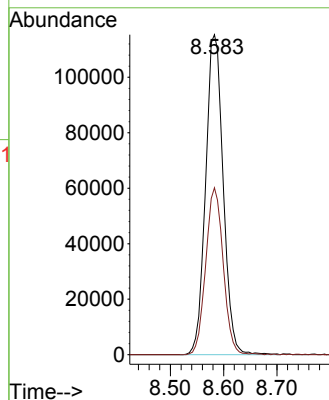
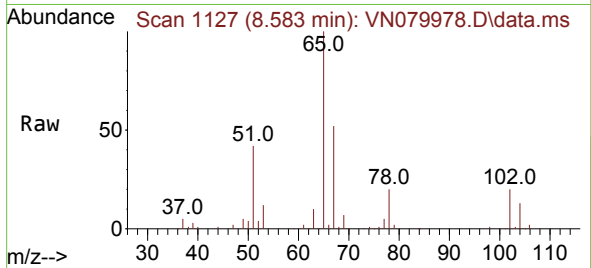
1081

Tgt Ion: 65 Resp: 264000

Ion Ratio Lower Upper

65 100

67 51.7 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: VN079978.D

Acq: 07 Nov 2023 20:34

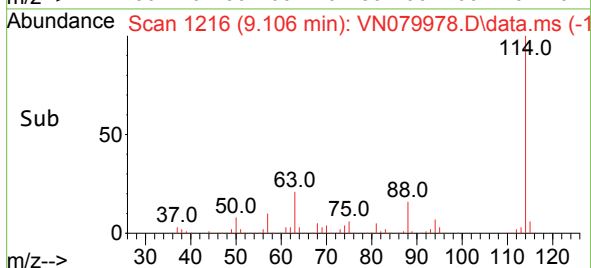
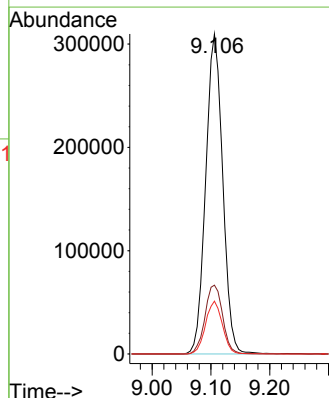
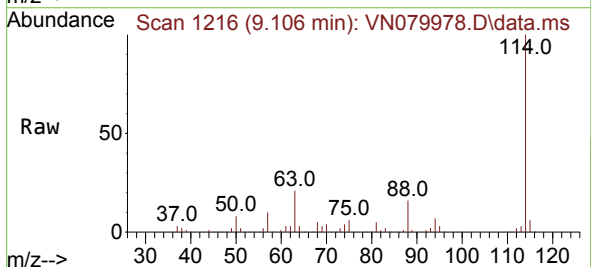
Tgt Ion: 114 Resp: 621609

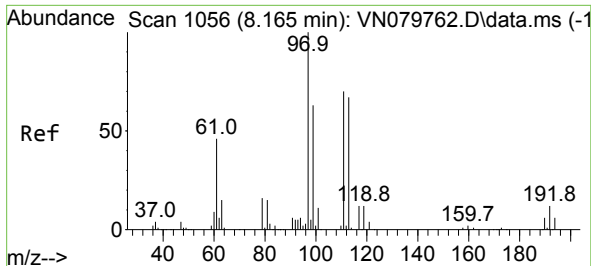
Ion Ratio Lower Upper

114 100

63 21.5 0.0 36.4

88 16.5 0.0 30.6





#35

Dibromofluoromethane

Concen: 49.812 ug/l

RT: 8.171 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN079978.D

Acq: 07 Nov 2023 20:34

Instrument :

MSVOA_N

ClientSampleId :

1081

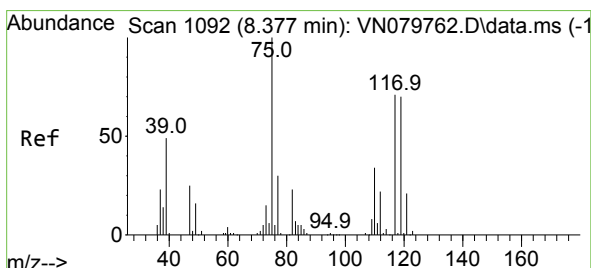
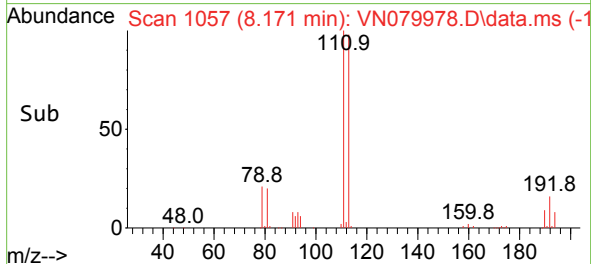
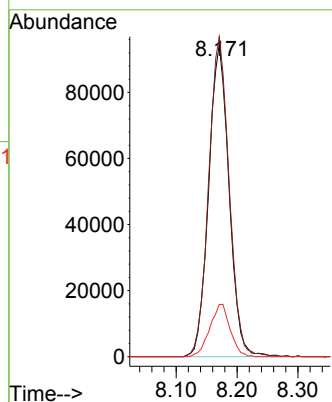
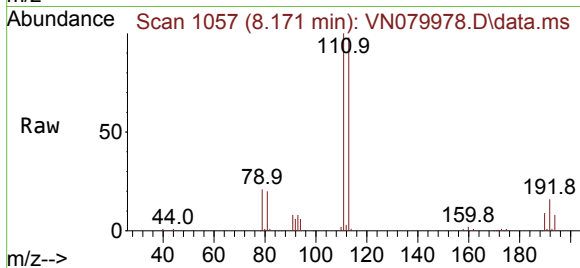
Tgt Ion:113 Resp: 219146

Ion Ratio Lower Upper

113 100

111 103.0 82.6 123.8

192 16.8 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.374 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN079978.D

Acq: 07 Nov 2023 20:34

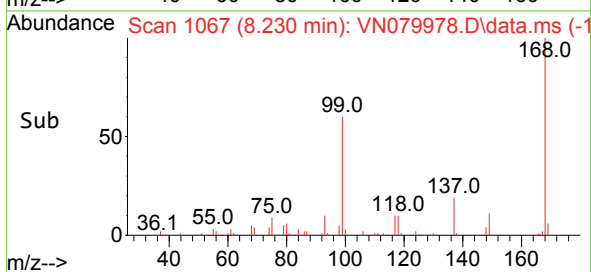
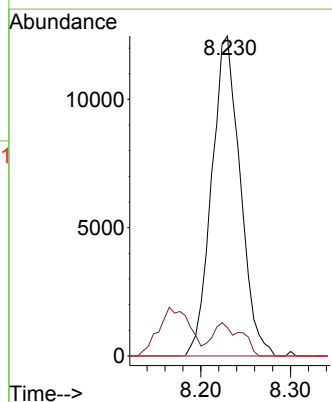
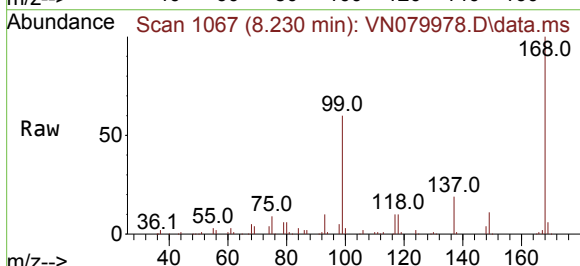
Tgt Ion: 75 Resp: 27478

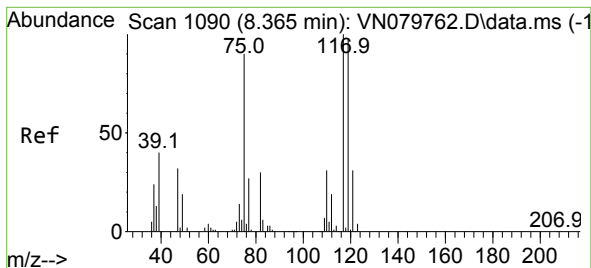
Ion Ratio Lower Upper

75 100

110 10.6 19.1 57.3#

77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.176 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.129 min

Lab File: VN079978.D

Acq: 07 Nov 2023 20:34

Instrument :

MSVOA_N

ClientSampleId :

1081

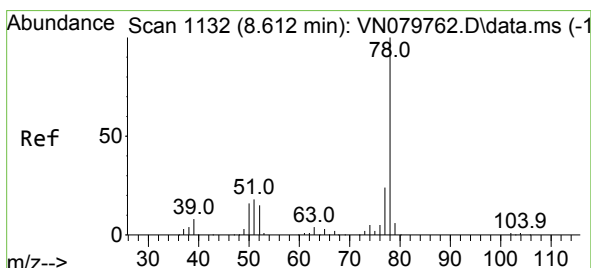
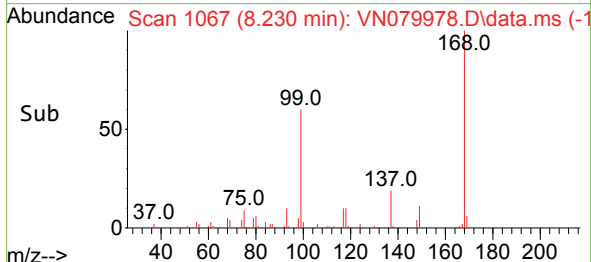
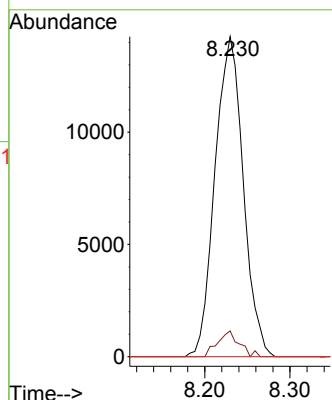
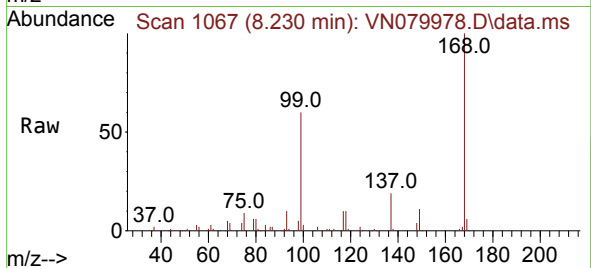
Tgt Ion:117 Resp: 32769

Ion Ratio Lower Upper

117 100

119 8.0 77.3 115.9#

121 0.0 23.3 34.9#



#40

Benzene

Concen: 15.694 ug/l

RT: 8.612 min Scan# 1132

Delta R.T. 0.000 min

Lab File: VN079978.D

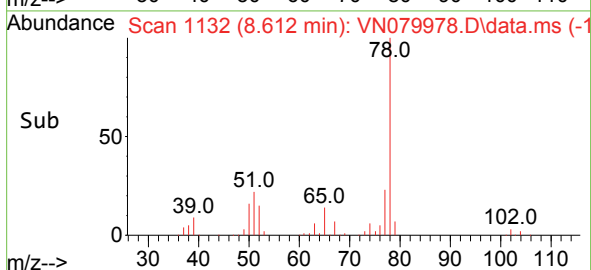
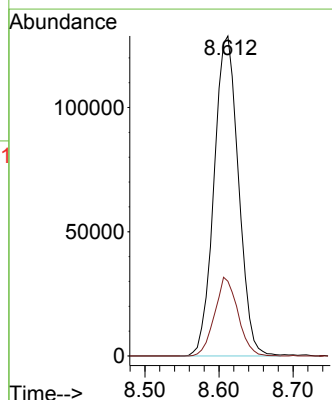
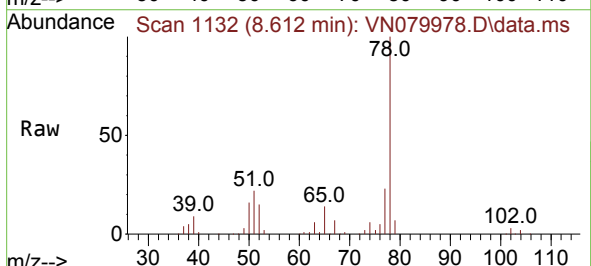
Acq: 07 Nov 2023 20:34

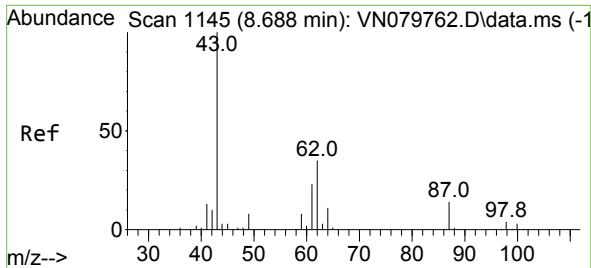
Tgt Ion: 78 Resp: 295278

Ion Ratio Lower Upper

78 100

77 23.4 19.0 28.6

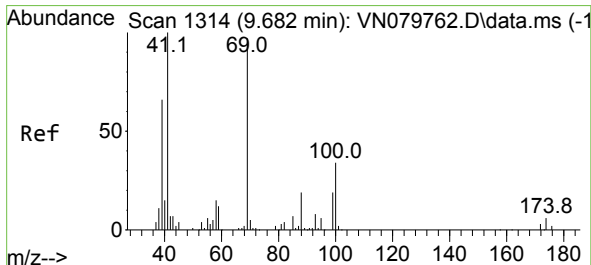
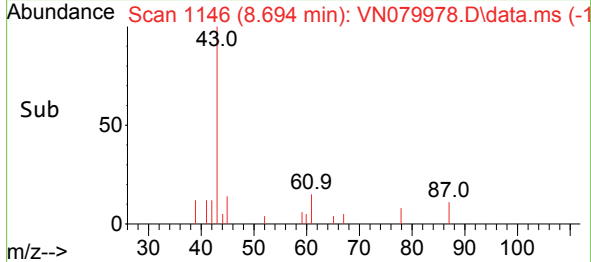
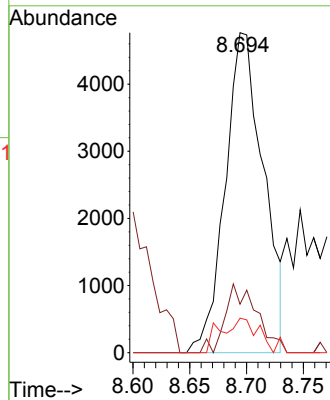
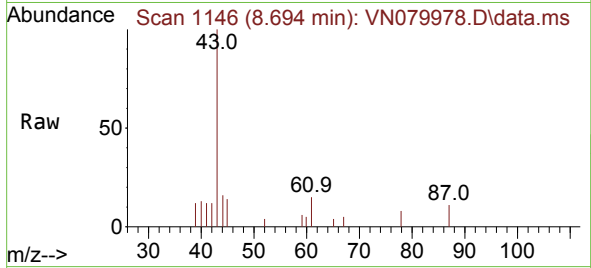




#43
Isopropyl Acetate
Concen: 1.105 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN079978.D
Acq: 07 Nov 2023 20:34

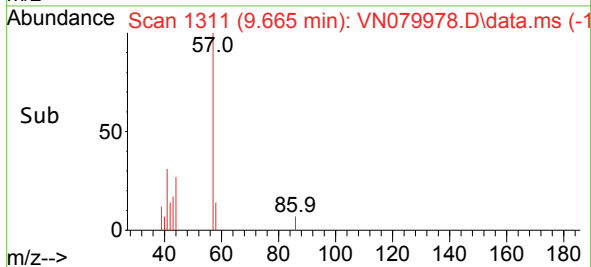
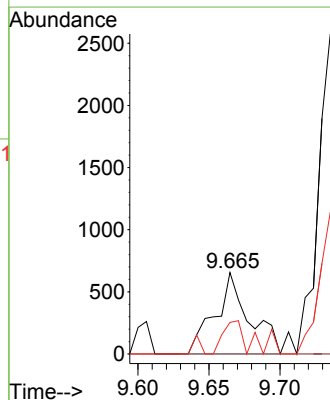
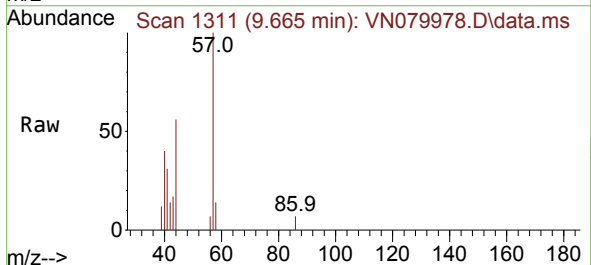
Instrument :
MSVOA_N
ClientSampleId :
1081

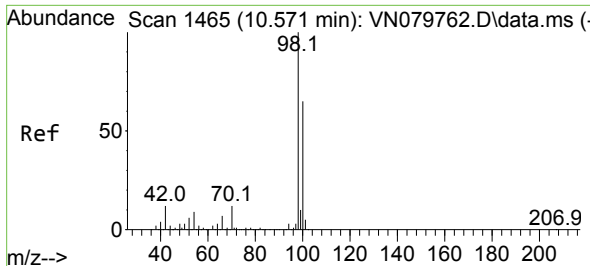
Tgt Ion: 43 Resp: 11164
Ion Ratio Lower Upper
43 100
61 17.8 24.7 37.1#
87 6.9 14.6 21.8#



#48
Methyl methacrylate
Concen: 0.247 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.018 min
Lab File: VN079978.D
Acq: 07 Nov 2023 20:34

Tgt Ion: 41 Resp: 1095
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 27.4 54.6 81.8#

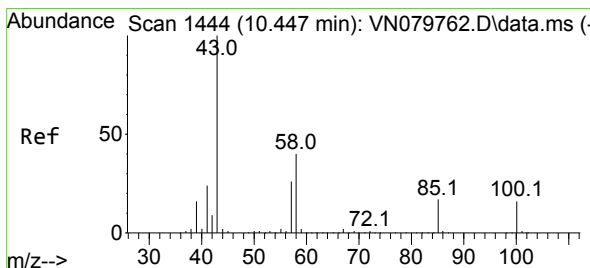
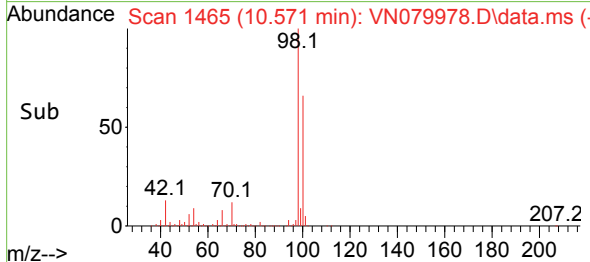
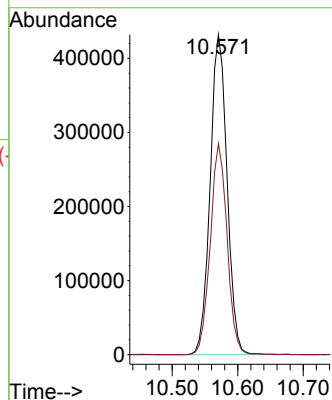
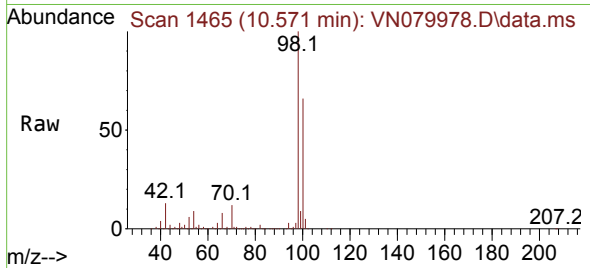




#50
Toluene-d8
Concen: 47.909 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079978.D
Acq: 07 Nov 2023 20:34

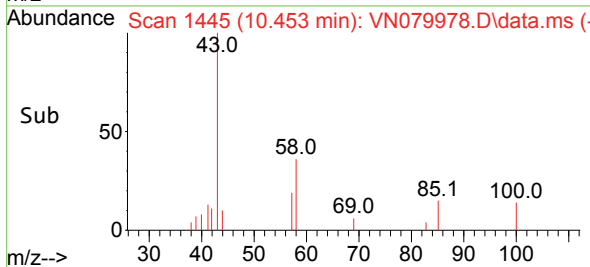
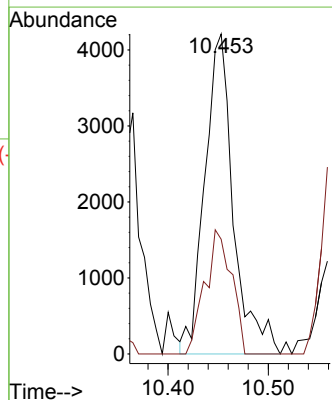
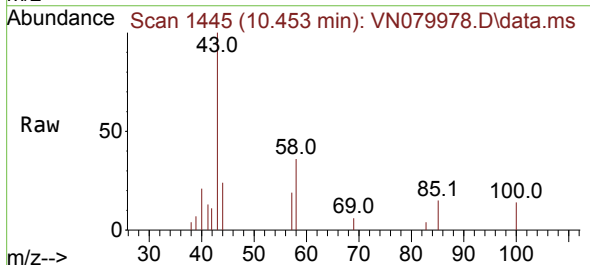
Instrument :
MSVOA_N
ClientSampleId :
1081

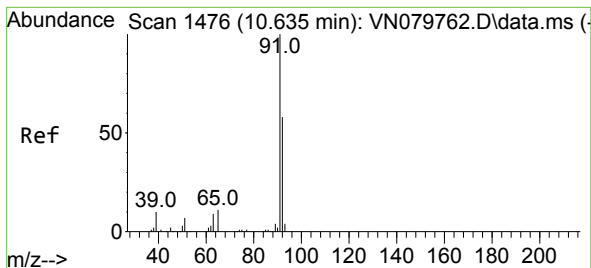
Tgt Ion: 98 Resp: 775934
Ion Ratio Lower Upper
98 100
100 65.6 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 1.467 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN079978.D
Acq: 07 Nov 2023 20:34

Tgt Ion: 43 Resp: 8342
Ion Ratio Lower Upper
43 100
58 35.9 36.6 54.8#





#52

Toluene

Concen: 10.370 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VN079978.D

Acq: 07 Nov 2023 20:34

Instrument :

MSVOA_N

ClientSampleId :

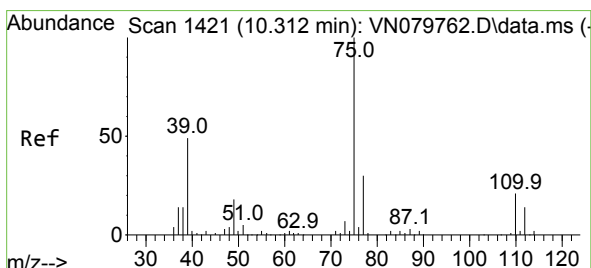
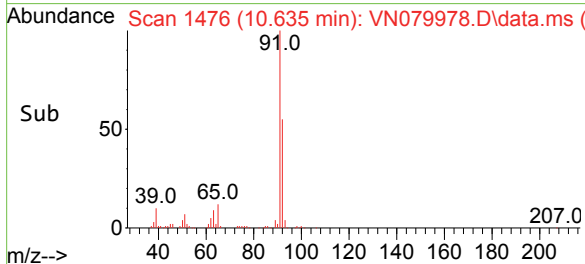
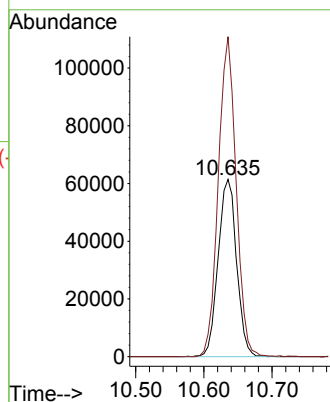
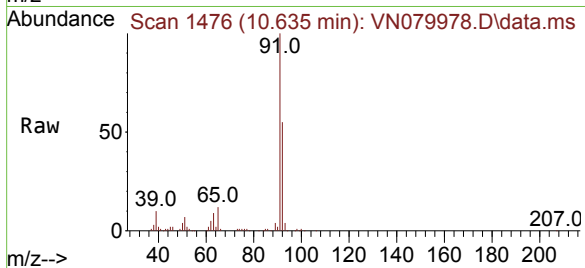
1081

Tgt Ion: 92 Resp: 115672

Ion Ratio Lower Upper

92 100

91 174.5 137.4 206.0



#54

cis-1,3-Dichloropropene

Concen: 0.280 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. 0.041 min

Lab File: VN079978.D

Acq: 07 Nov 2023 20:34

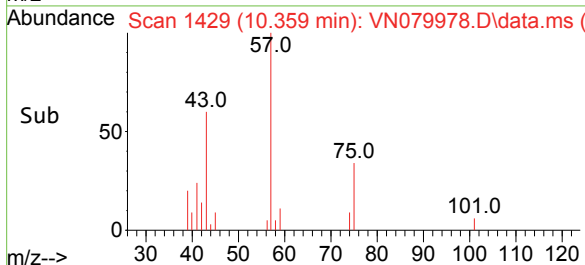
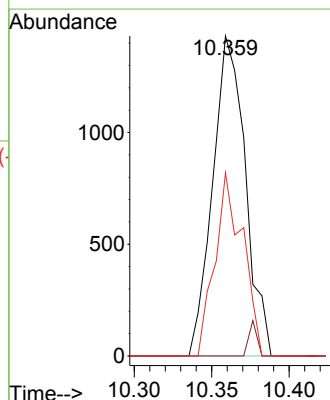
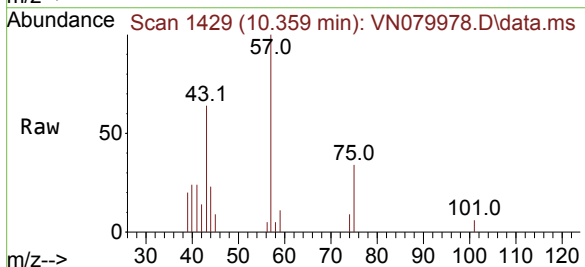
Tgt Ion: 75 Resp: 2097

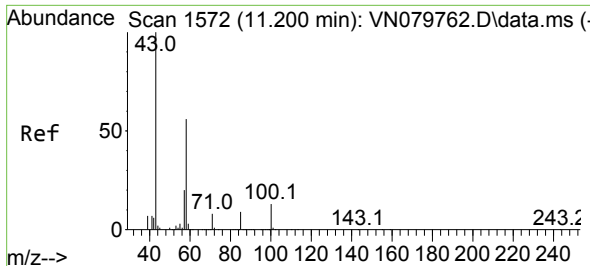
Ion Ratio Lower Upper

75 100

77 0.0 26.1 39.1#

39 57.3 31.6 47.4#

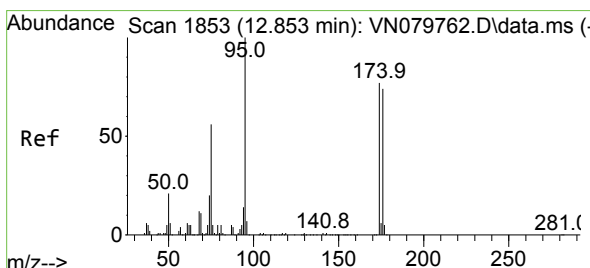
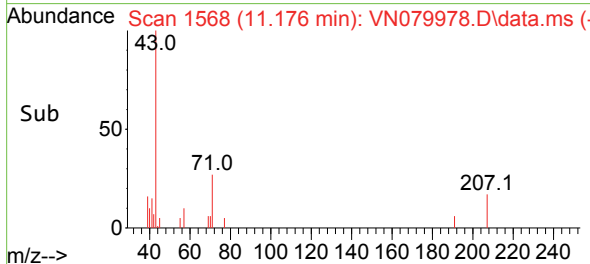
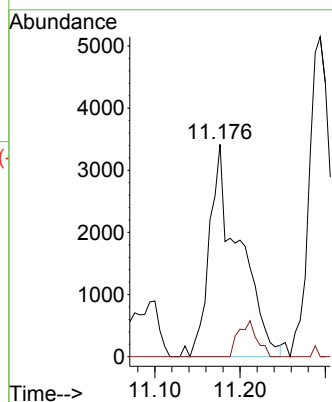
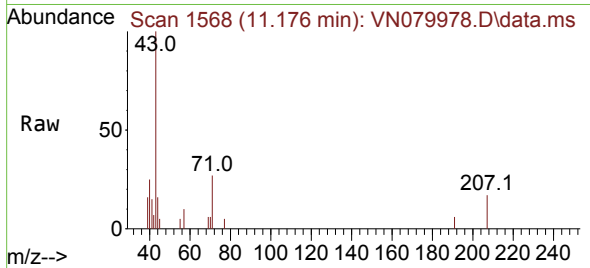




#59
2-Hexanone
Concen: 1.907 ug/l
RT: 11.176 min Scan# 1568
Delta R.T. -0.023 min
Lab File: VN079978.D
Acq: 07 Nov 2023 20:34

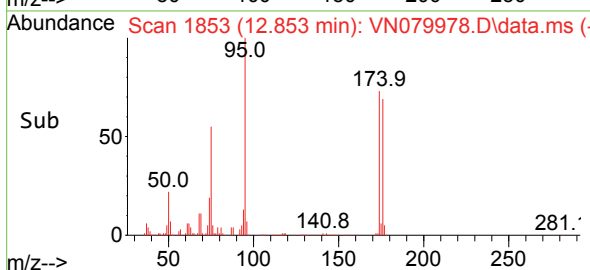
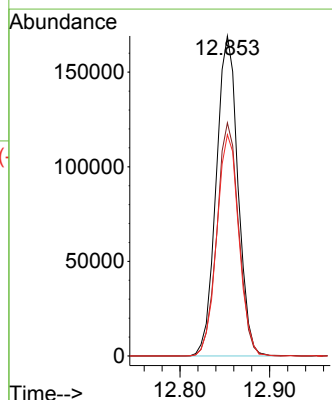
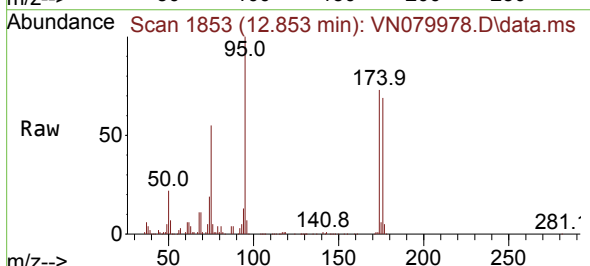
Instrument :
MSVOA_N
ClientSampleId :
1081

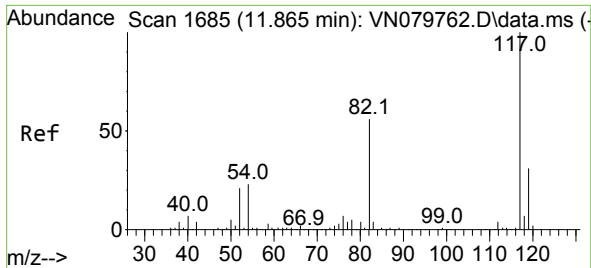
Tgt Ion: 43 Resp: 8297
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 52.982 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079978.D
Acq: 07 Nov 2023 20:34

Tgt Ion: 95 Resp: 284591
Ion Ratio Lower Upper
95 100
174 73.2 0.0 143.8
176 70.2 0.0 135.8

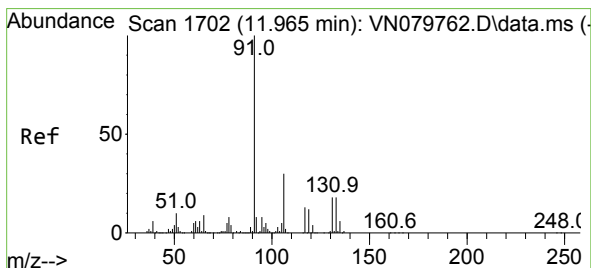
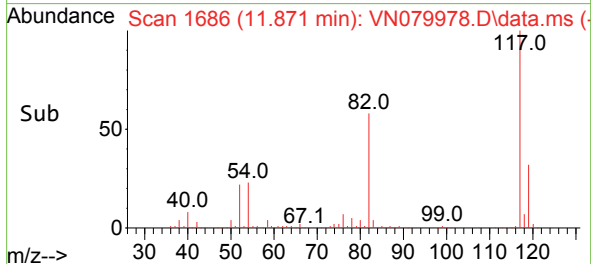
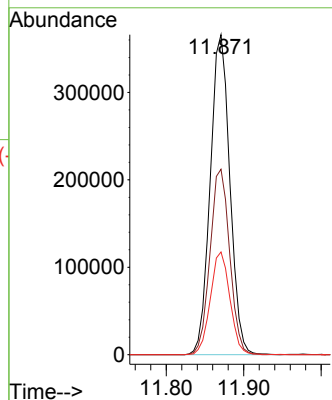
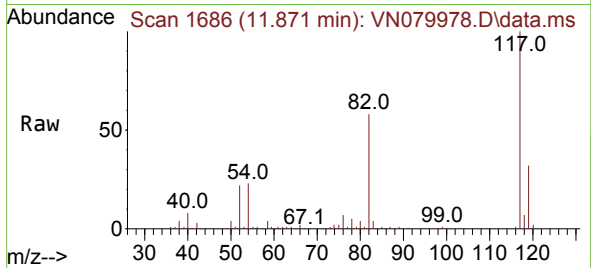




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11081
Delta R.T. 0.000 min
Lab File: VN079978.D
Acq: 07 Nov 2023 20:34

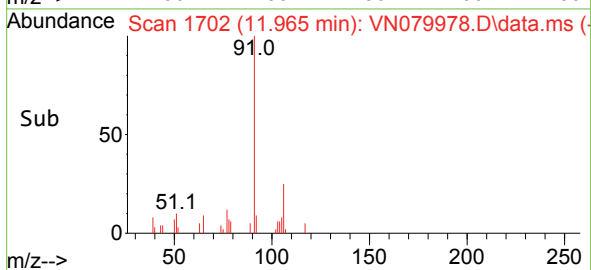
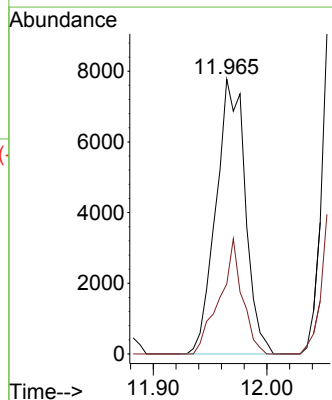
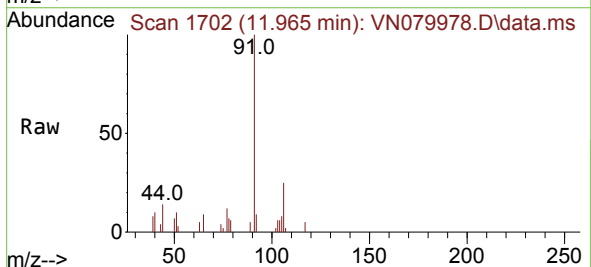
Instrument :
MSVOA_N
ClientSampleId :
1081

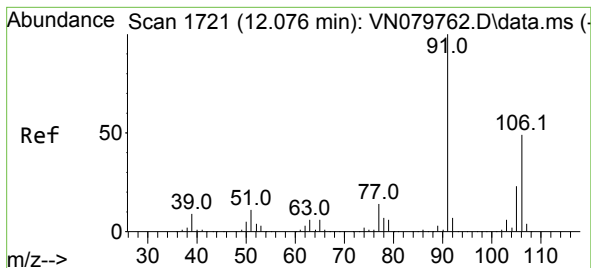
Tgt Ion:117 Resp: 645081
Ion Ratio Lower Upper
117 100
82 58.0 44.0 66.0
119 32.1 25.6 38.4



#67
Ethyl Benzene
Concen: 0.571 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN079978.D
Acq: 07 Nov 2023 20:34

Tgt Ion: 91 Resp: 13914
Ion Ratio Lower Upper
91 100
106 25.4 25.6 38.4#

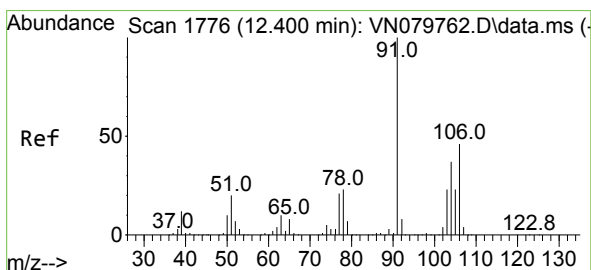
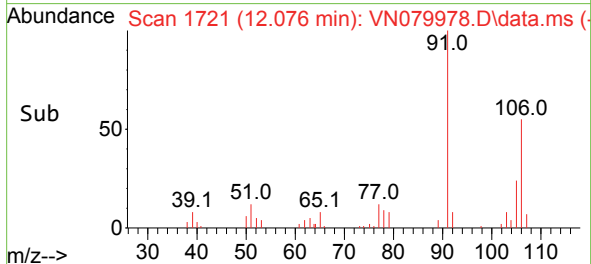
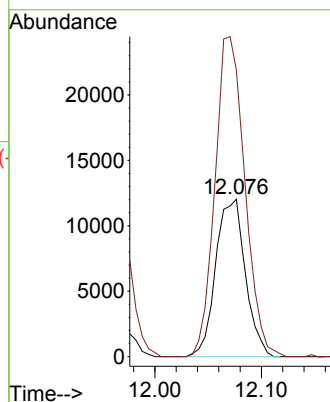
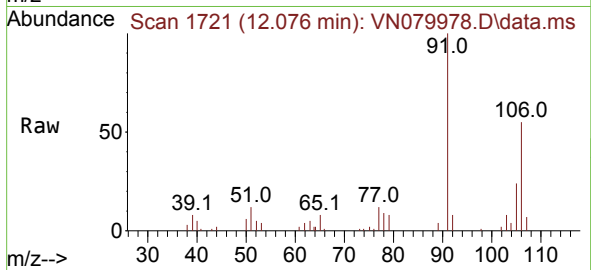




#68
m/p-Xylenes
Concen: 2.556 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.006 min
Lab File: VN079978.D
Acq: 07 Nov 2023 20:34

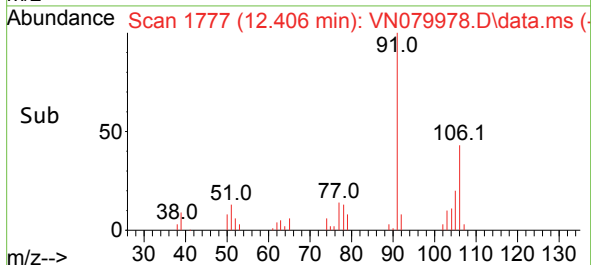
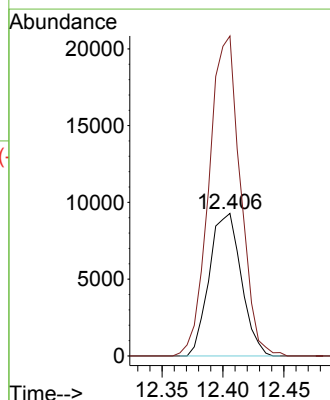
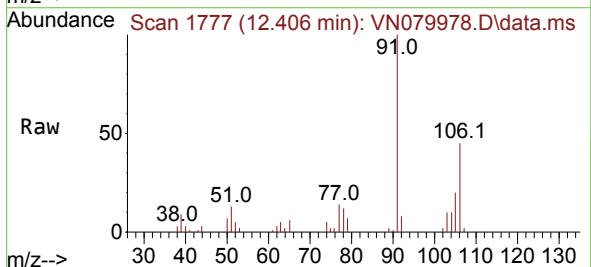
Instrument :
MSVOA_N
ClientSampleId :
1081

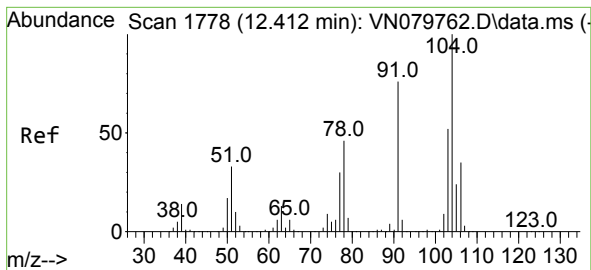
Tgt Ion:106 Resp: 23212
Ion Ratio Lower Upper
106 100
91 205.2 159.6 239.4



#69
o-Xylene
Concen: 1.937 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VN079978.D
Acq: 07 Nov 2023 20:34

Tgt Ion:106 Resp: 16942
Ion Ratio Lower Upper
106 100
91 220.5 105.2 315.5





#70

Styrene

Concen: 0.292 ug/l

RT: 12.418 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN079978.D

Acq: 07 Nov 2023 20:34

Instrument :

MSVOA_N

ClientSampleId :

1081

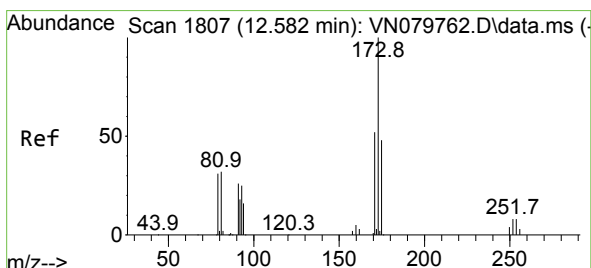
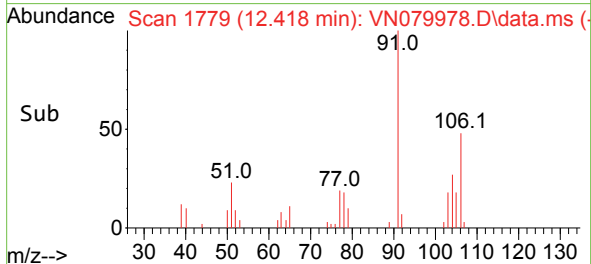
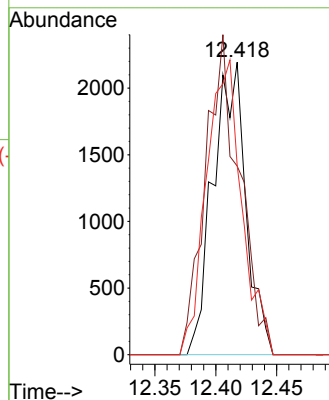
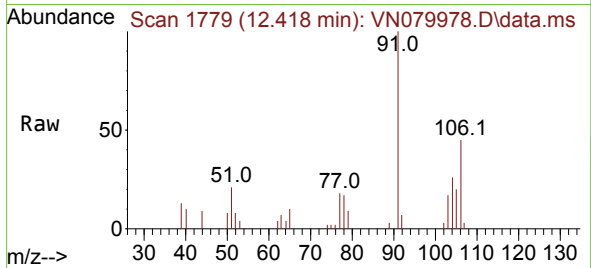
Tgt Ion:104 Resp: 4101

Ion Ratio Lower Upper

104 100

78 113.8 39.5 59.3#

103 109.3 43.2 64.8#



#71

Bromoform

Concen: 0.391 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.265 min

Lab File: VN079978.D

Acq: 07 Nov 2023 20:34

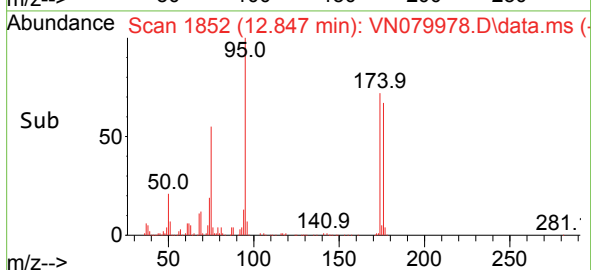
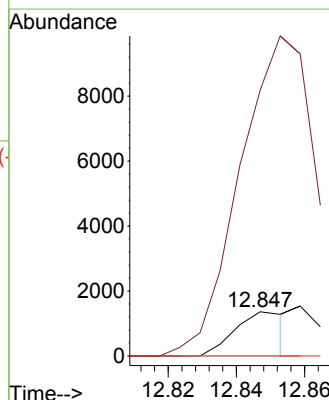
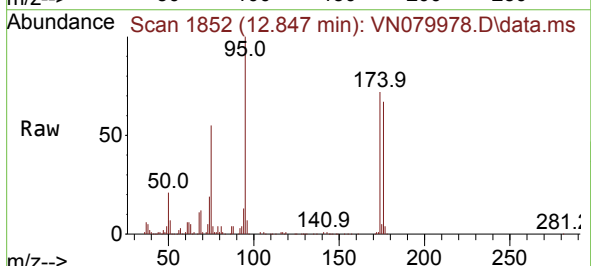
Tgt Ion:173 Resp: 1400

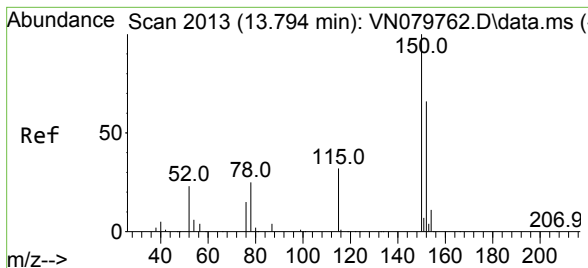
Ion Ratio Lower Upper

173 100

175 928.5 24.3 73.0#

254 0.0 0.0 0.0

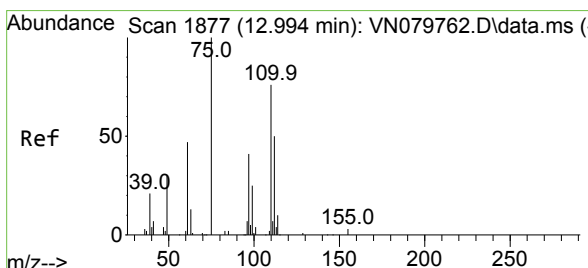
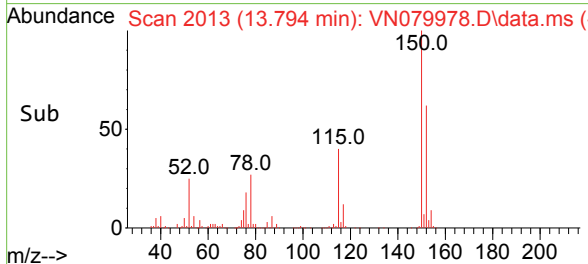
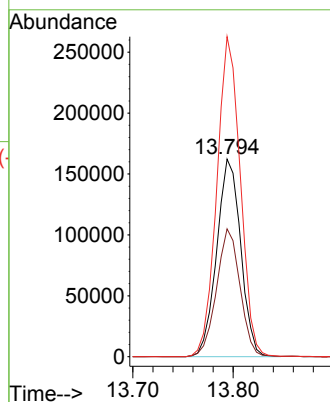
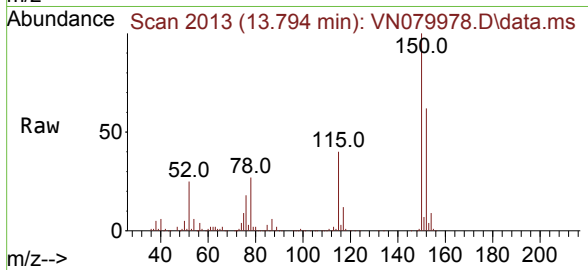




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 2013
 Delta R.T. 0.000 min
 Lab File: VN079978.D
 Acq: 07 Nov 2023 20:34

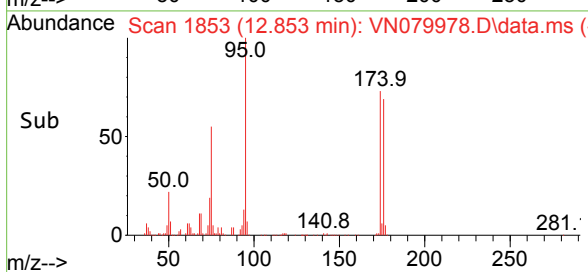
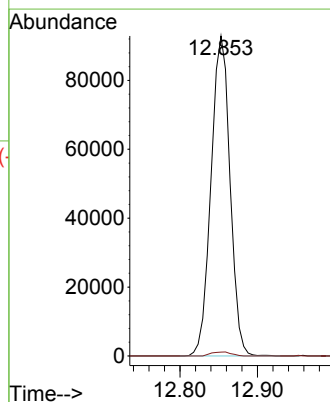
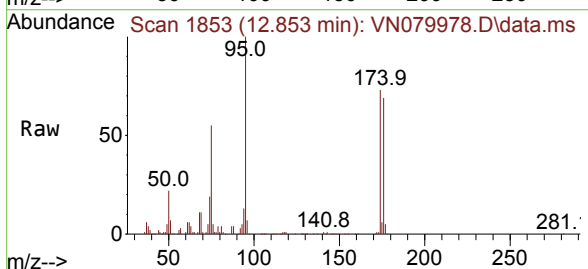
Instrument :
 MSVOA_N
 ClientSampleId :
 1081

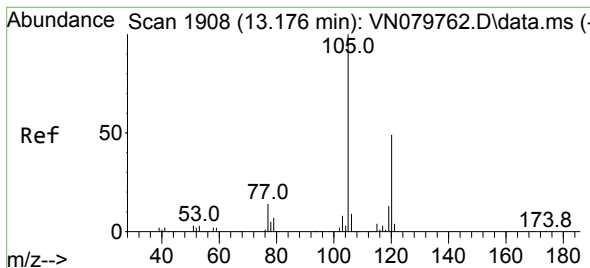
Tgt Ion:152 Resp: 269261
 Ion Ratio Lower Upper
 152 100
 115 63.4 32.3 96.8
 150 158.5 0.0 355.8



#76
 1,2,3-Trichloropropane
 Concen: 25.038 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.141 min
 Lab File: VN079978.D
 Acq: 07 Nov 2023 20:34

Tgt Ion: 75 Resp: 158274
 Ion Ratio Lower Upper
 75 100
 77 1.3 84.5 253.5#

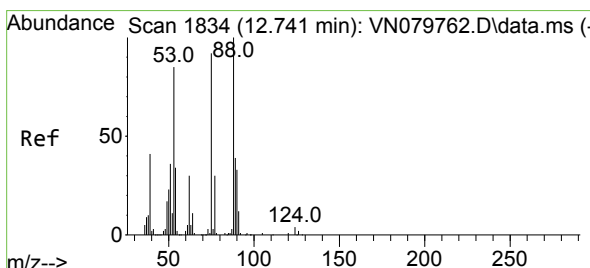
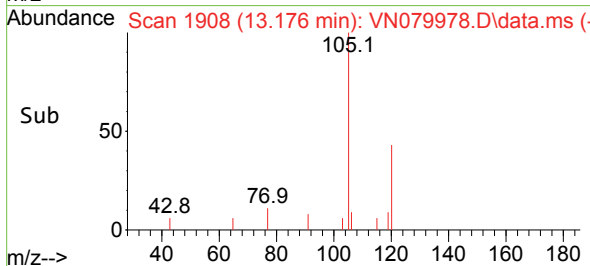
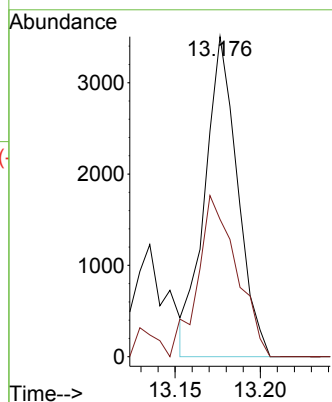
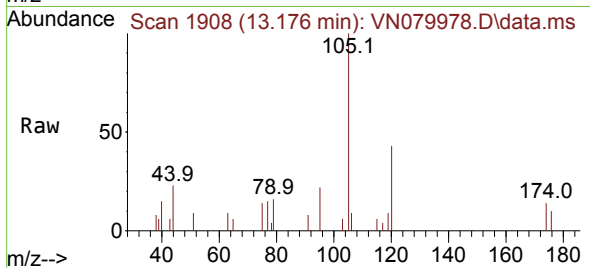




#80
 1,3,5-Trimethylbenzene
 Concen: 0.294 ug/l
 RT: 13.176 min Scan# 1908
 Delta R.T. 0.000 min
 Lab File: VN079978.D
 Acq: 07 Nov 2023 20:34

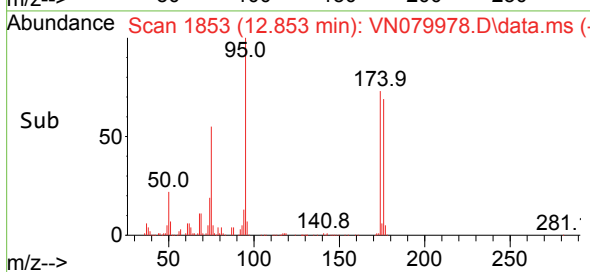
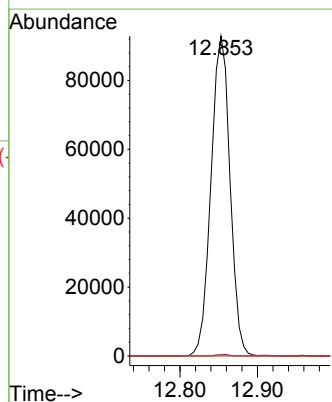
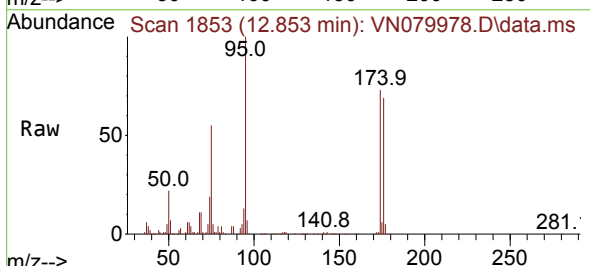
Instrument :
 MSVOA_N
 ClientSampleId :
 1081

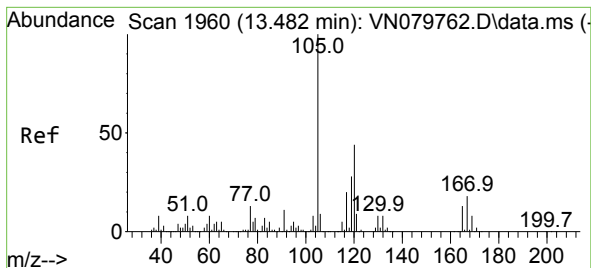
Tgt Ion:105 Resp: 4672
 Ion Ratio Lower Upper
 105 100
 120 59.7 24.1 72.3



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.121 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.118 min
 Lab File: VN079978.D
 Acq: 07 Nov 2023 20:34

Tgt Ion: 75 Resp: 158274
 Ion Ratio Lower Upper
 75 100
 53 0.3 67.4 101.2#
 89 0.0 38.8 58.2#





#84

1,2,4-Trimethylbenzene

Concen: 0.989 ug/l

RT: 13.488 min Scan# 1961

Delta R.T. 0.006 min

Lab File: VN079978.D

Acq: 07 Nov 2023 20:34

Instrument :

MSVOA_N

ClientSampleId :

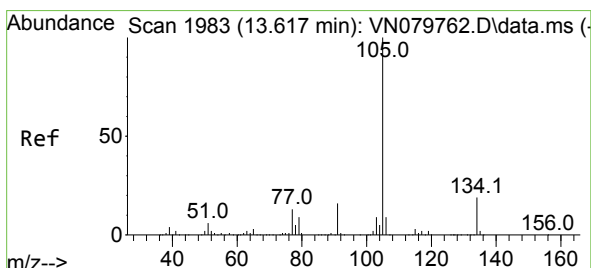
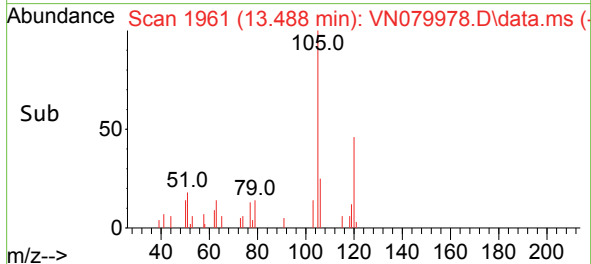
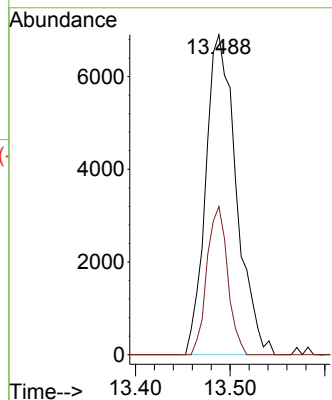
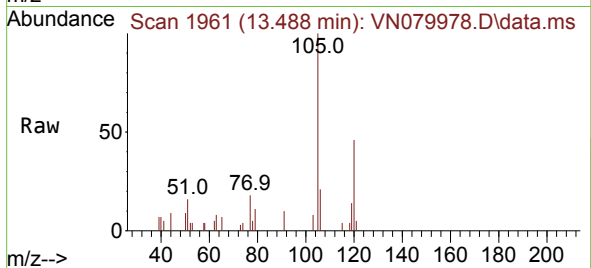
1081

Tgt Ion:105 Resp: 15476

Ion Ratio Lower Upper

105 100

120 31.4 22.0 66.0



#85

sec-Butylbenzene

Concen: 0.858 ug/l

RT: 13.488 min Scan# 1961

Delta R.T. -0.129 min

Lab File: VN079978.D

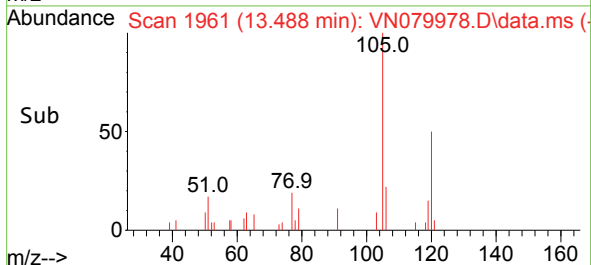
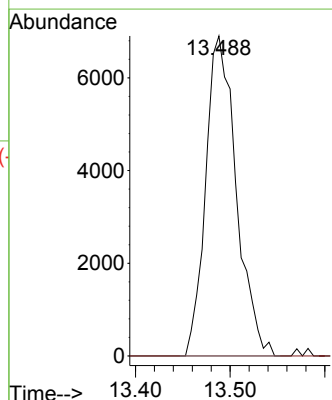
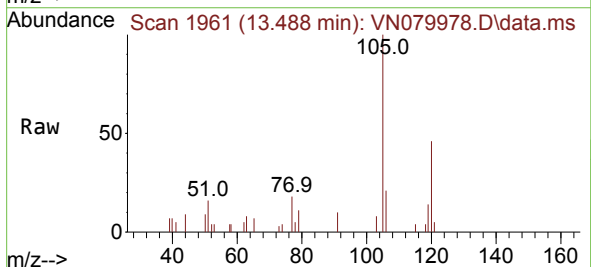
Acq: 07 Nov 2023 20:34

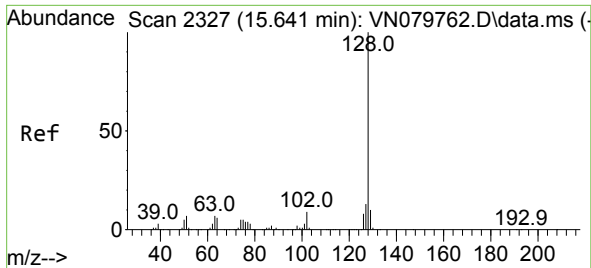
Tgt Ion:105 Resp: 15476

Ion Ratio Lower Upper

105 100

134 0.0 9.8 29.3#





#95

Naphthalene

Concen: 16.242 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN079978.D

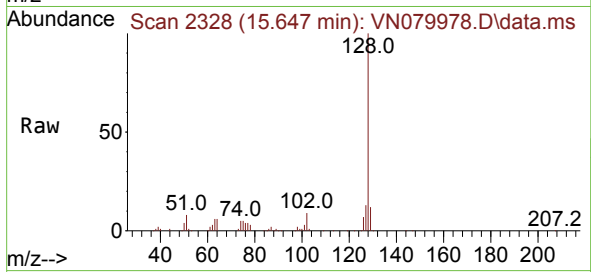
Acq: 07 Nov 2023 20:34

Instrument :

MSVOA_N

ClientSampleId :

1081



Tgt Ion:128 Resp: 230102

Ion Ratio Lower Upper

128 100

127 13.1 10.0 15.0

129 10.6 8.7 13.1

