

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082323\
 Data File : VN079013.D
 Acq On : 23 Aug 2023 13:59
 Operator : JC\MD
 Sample : 04121-01 200X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 24 01:10:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 16 02:42:02 2023
 Response via : Initial Calibration

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

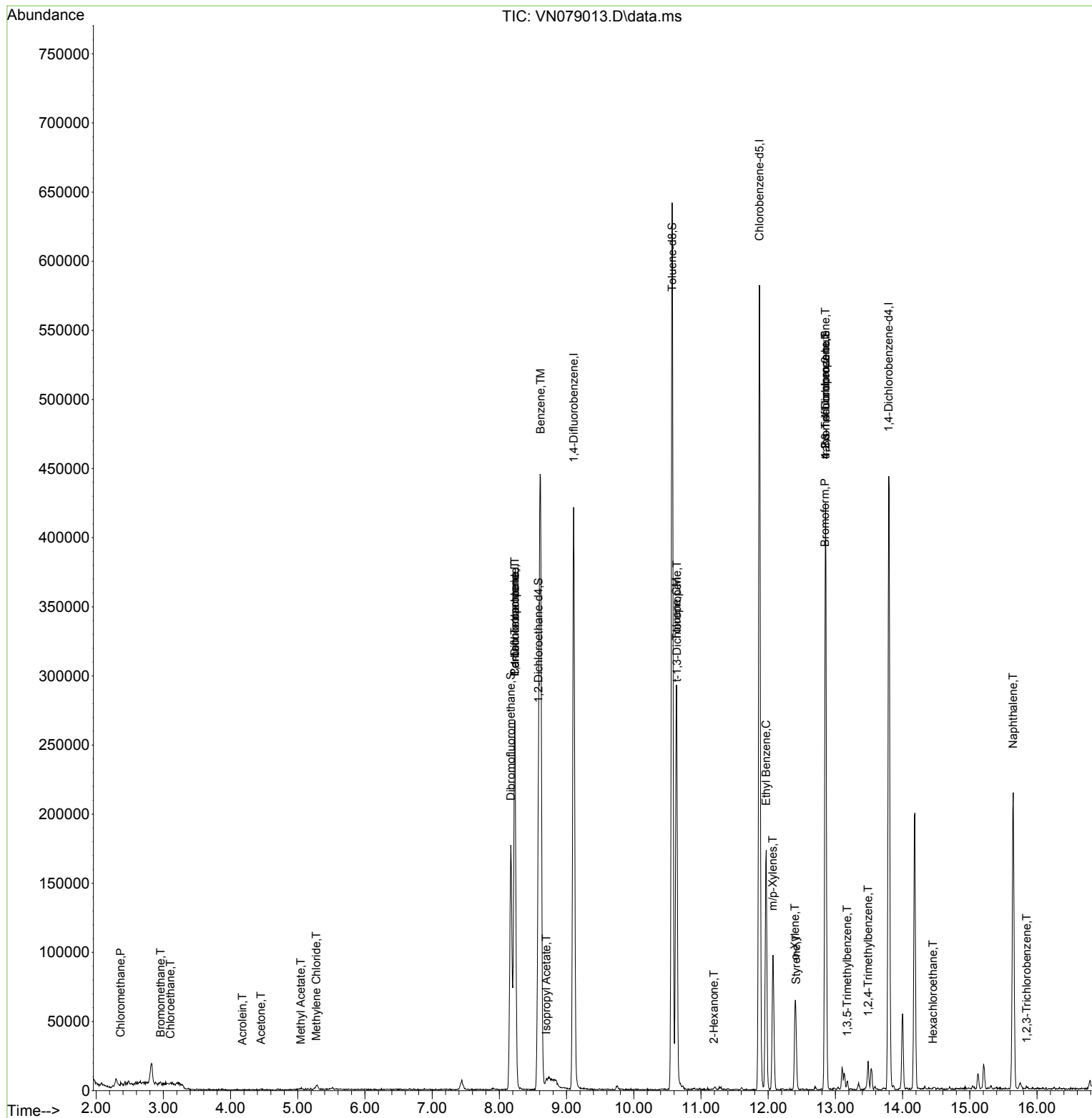
Internal Standards						
1) Pentafluorobenzene	8.230	168	189385	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	351122	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	323625	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	116928	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	148236	50.301	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery	= 100.600%		
35) Dibromofluoromethane	8.171	113	122371	51.774	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery	= 103.540%		
50) Toluene-d8	10.571	98	426284	48.573	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery	= 97.140%		
62) 4-Bromofluorobenzene	12.853	95	139865	48.758	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery	= 97.520%		
Target Compounds						Qvalue
3) Chloromethane	2.365	50	1035	0.282	ug/l	94
5) Bromomethane	2.959	94	426	0.231	ug/l #	71
6) Chloroethane	3.106	64	600	0.267	ug/l #	43
13) Acrolein	4.177	56	63	7.042	ug/l #	16
16) Acetone	4.453	43	603	0.496	ug/l #	40
18) Methyl Acetate	5.047	43	1404	0.273	ug/l #	68
20) Methylene Chloride	5.277	84	969	0.374	ug/l #	65
31) Cyclohexane	8.224	56	2885	Below Cal	#	30
36) 1,1-Dichloropropene	8.230	75	15887	4.468	ug/l #	49
38) Carbon Tetrachloride	8.230	117	21179	5.945	ug/l #	16
40) Benzene	8.612	78	407926	38.817	ug/l	100
43) Isopropyl Acetate	8.700	43	4490	0.639	ug/l #	49
52) Toluene	10.635	92	124633	19.317	ug/l	99
53) t-1,3-Dichloropropene	10.641	75	1791	0.441	ug/l #	1
59) 2-Hexanone	11.194	43	1068	0.354	ug/l #	19
67) Ethyl Benzene	11.970	91	124348	9.926	ug/l	96
68) m/p-Xylenes	12.070	106	29683	6.337	ug/l	95
69) o-Xylene	12.400	106	15598	3.423	ug/l	99
70) Styrene	12.417	104	9894	1.302	ug/l #	71
71) Bromoform	12.847	173	822	0.434	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	74604	26.480	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.176	105	2882	0.373	ug/l	76
81) trans-1,4-Dichloro-2-b...	12.853	75	74604	67.644	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.488	105	10573	1.382	ug/l	98
90) Hexachloroethane	14.453	117	466	0.326	ug/l #	21
92) 1,2-Dibromo-3-Chloropr...	14.735	75	68	Below Cal	#	4
95) Naphthalene	15.647	128	187515	35.583	ug/l	98
96) 1,2,3-Trichlorobenzene	15.847	180	691	0.444	ug/l #	56

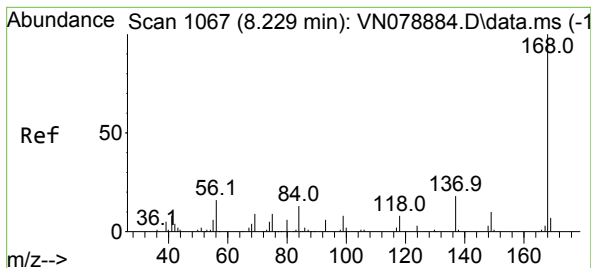
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Aug 16 02:42:02 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN079013.D

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Instrument :

MSVOA_N

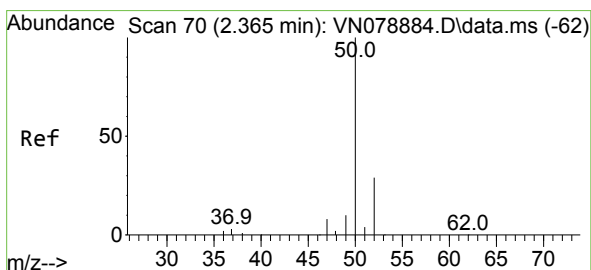
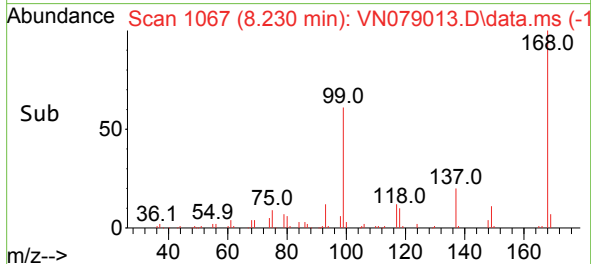
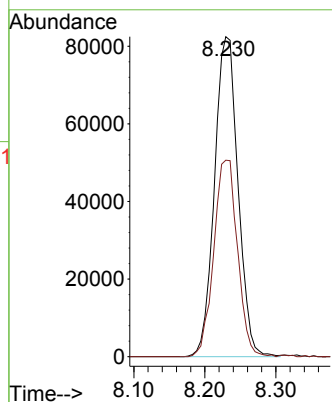
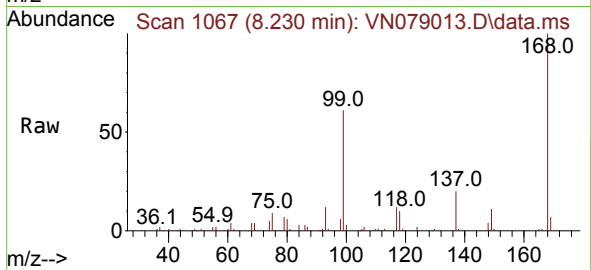
ClientSampleId :

Tgt Ion:168 Resp: 189385

Ion Ratio Lower Upper

168 100

99 61.4 53.0 79.6



#3

Chloromethane

Concen: 0.282 ug/l

RT: 2.365 min Scan# 70

Delta R.T. -0.006 min

Lab File: VN079013.D

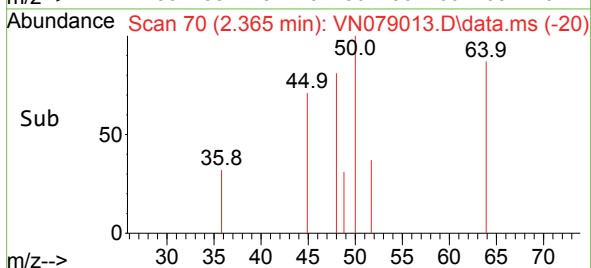
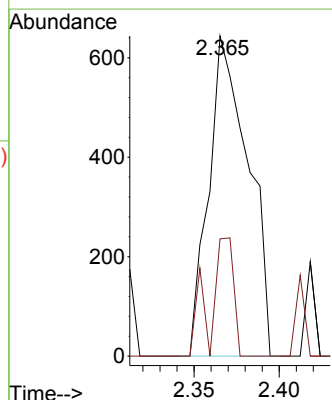
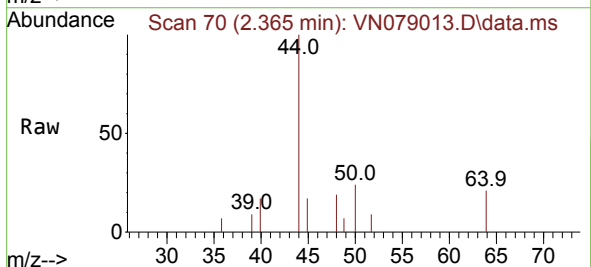
Acq: 23 Aug 2023 13:59

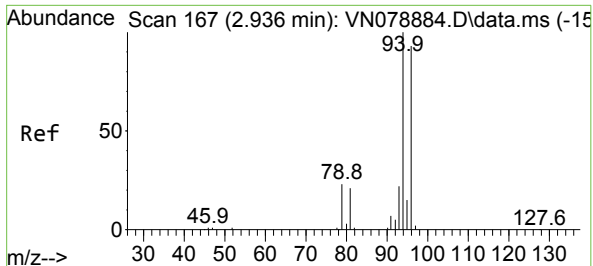
Tgt Ion: 50 Resp: 1035

Ion Ratio Lower Upper

50 100

52 36.6 26.5 39.7

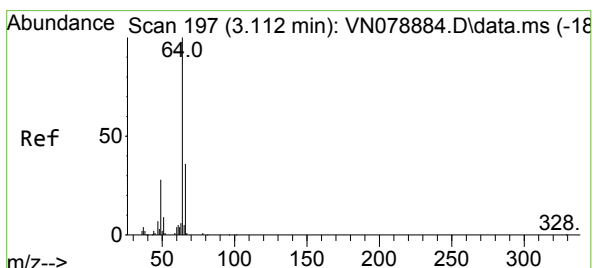
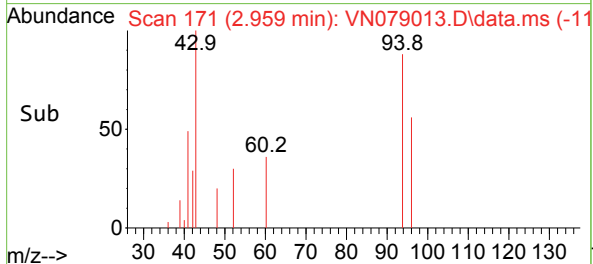
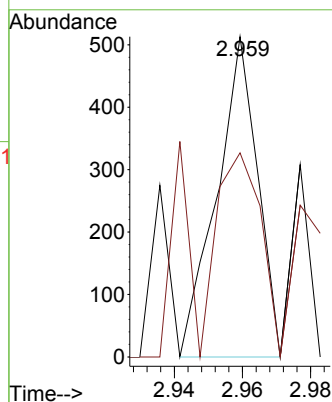
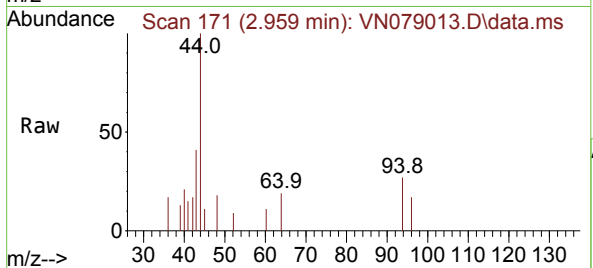




#5
Bromomethane
Concen: 0.231 ug/l
RT: 2.959 min Scan# 11
Delta R.T. 0.011 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

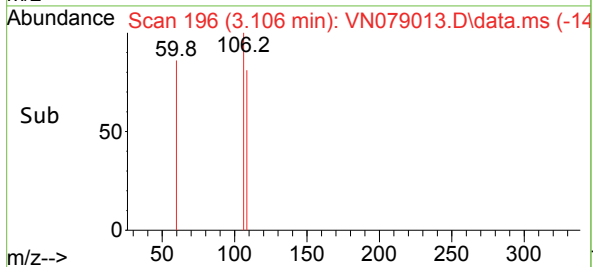
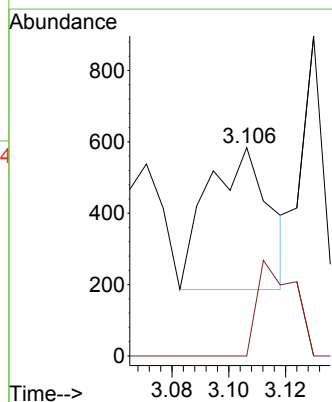
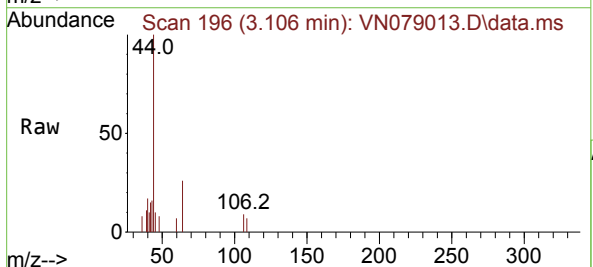
Instrument :
MSVOA_N
ClientSampleId :

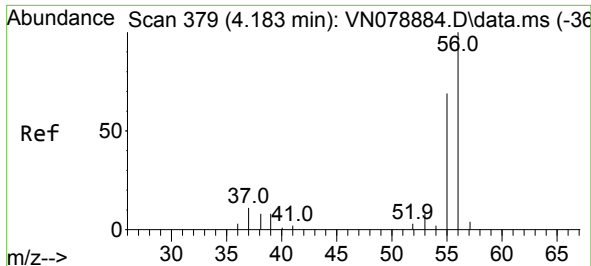
Tgt Ion: 94 Resp: 426
Ion Ratio Lower Upper
94 100
96 63.7 73.1 109.7#



#6
Chloroethane
Concen: 0.267 ug/l
RT: 3.106 min Scan# 196
Delta R.T. -0.012 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

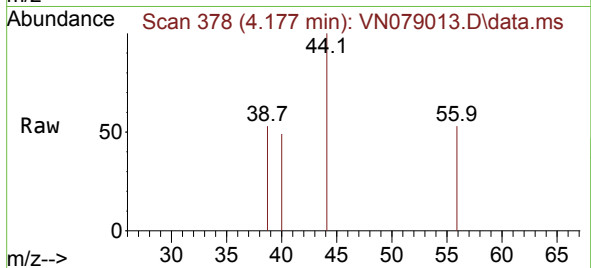
Tgt Ion: 64 Resp: 600
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



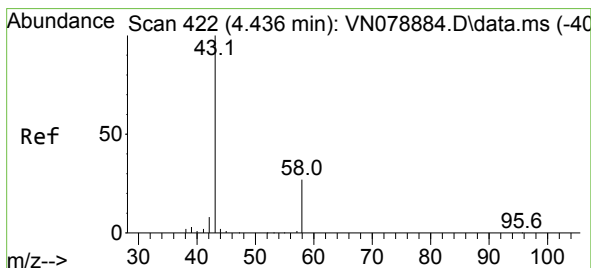
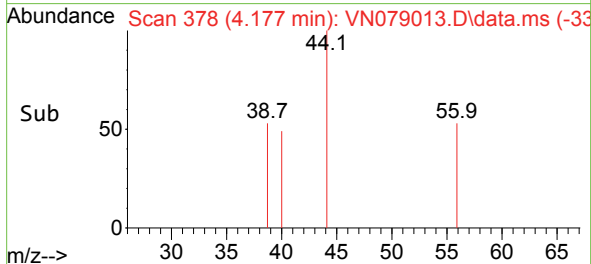
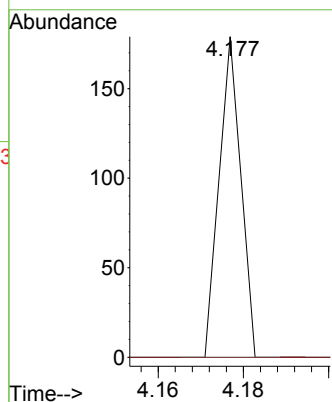


#13
Acrolein
Concen: 7.042 ug/l
RT: 4.177 min Scan# 31
Delta R.T. -0.018 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

Instrument :
MSVOA_N
ClientSampleId :

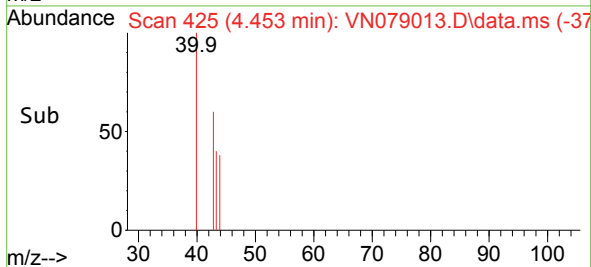
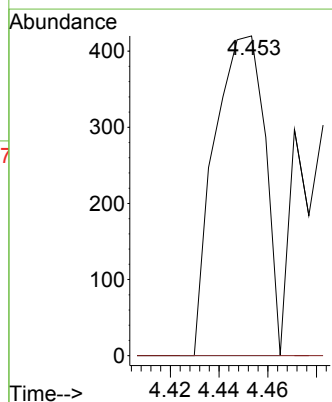
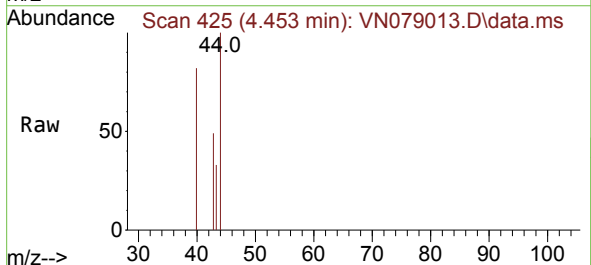


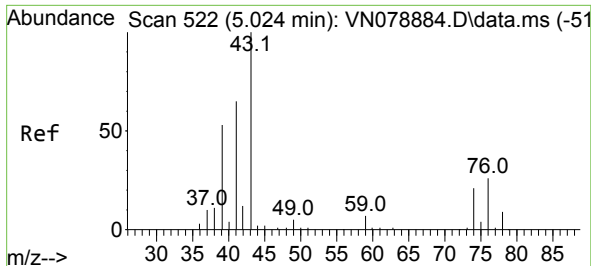
Tgt Ion: 56 Resp: 63
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#16
Acetone
Concen: 0.496 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.011 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

Tgt Ion: 43 Resp: 603
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#

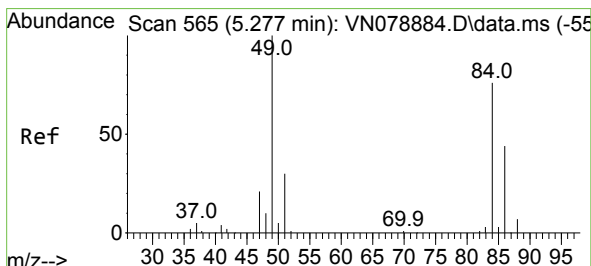
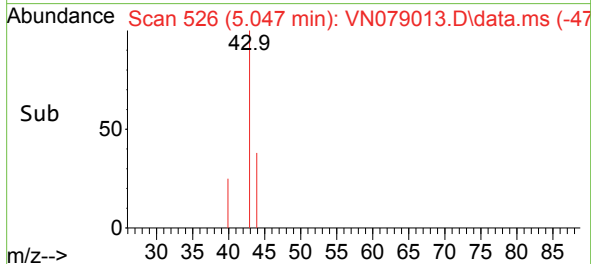
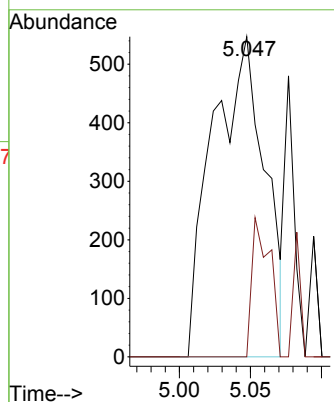
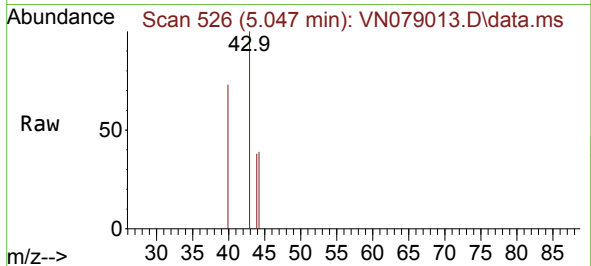




#18
Methyl Acetate
Concen: 0.273 ug/l
RT: 5.047 min Scan# 51
Delta R.T. 0.005 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

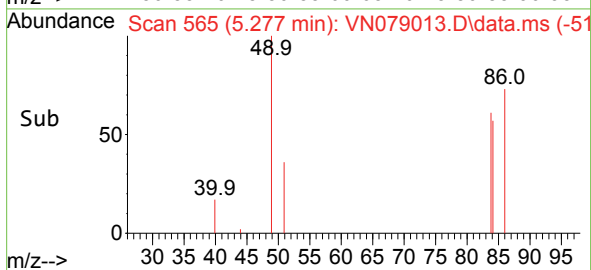
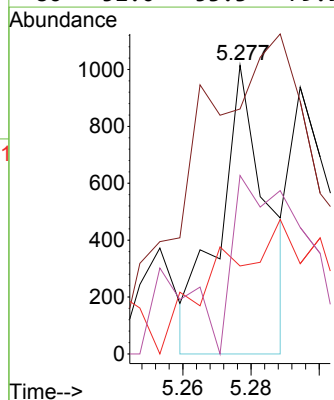
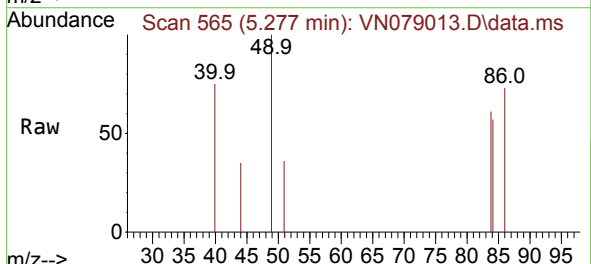
Instrument :
MSVOA_N
ClientSampleId :

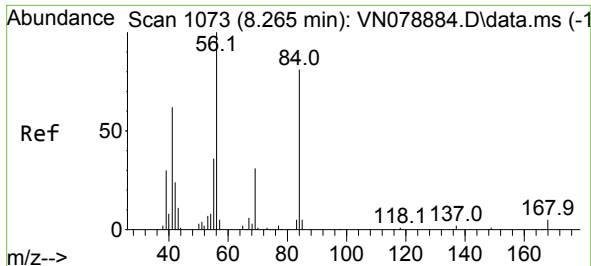
Tgt Ion: 43 Resp: 1404
Ion Ratio Lower Upper
43 100
74 14.9 26.2 39.4#



#20
Methylene Chloride
Concen: 0.374 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.006 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

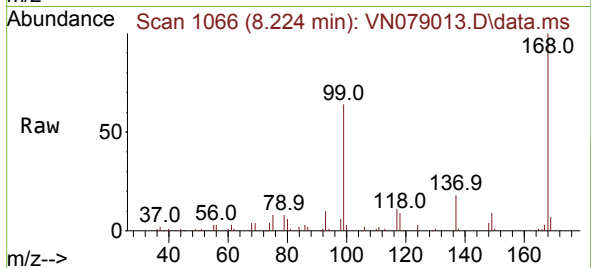
Tgt Ion: 84 Resp: 969
Ion Ratio Lower Upper
84 100
49 54.1 79.7 119.5#
51 11.0 25.2 37.8#
86 52.0 53.3 79.9#



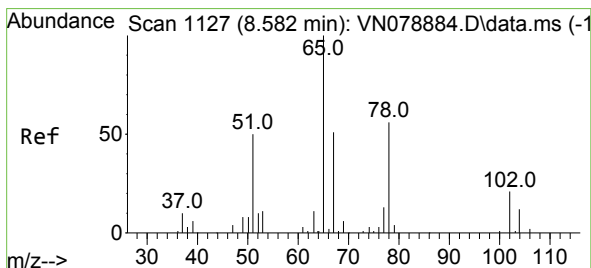
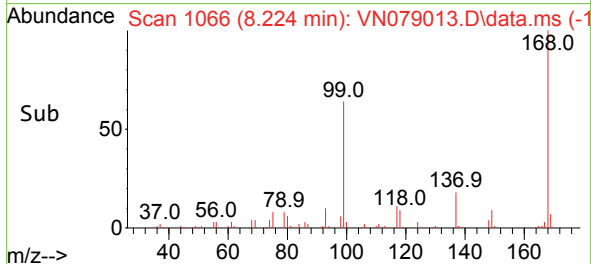
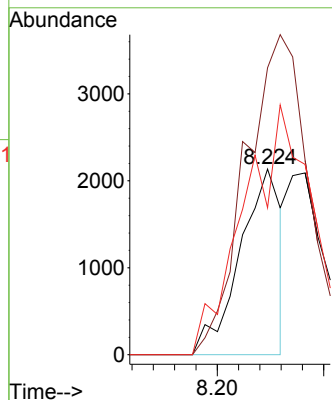


#31
Cyclohexane
Concen: Below Cal
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

Instrument :
MSVOA_N
ClientSampleId :

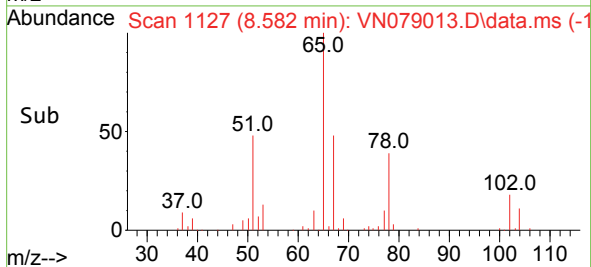
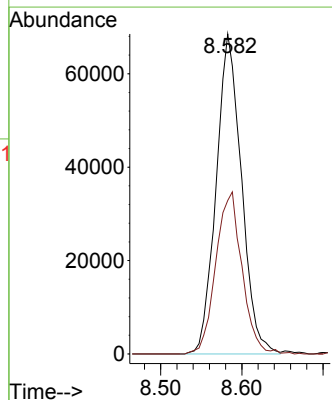
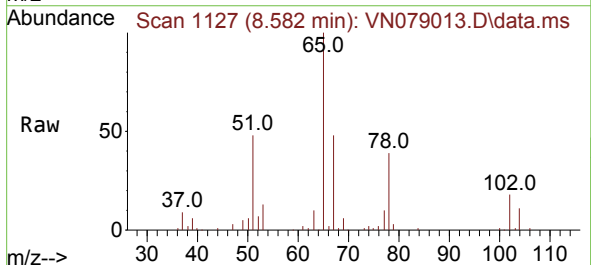


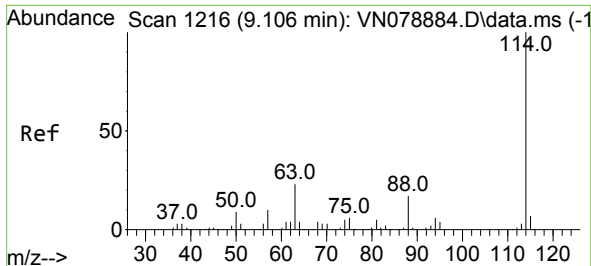
Tgt Ion: 56 Resp: 2885
Ion Ratio Lower Upper
56 100
69 154.6 26.8 40.2#
84 79.1 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 50.301 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.001 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

Tgt Ion: 65 Resp: 148236
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# 1

Delta R.T. -0.006 min

Lab File: VN079013.D

Acq: 23 Aug 2023 13:59

Instrument :

MSVOA_N

ClientSampleId :

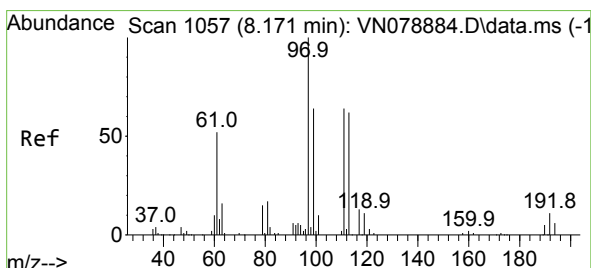
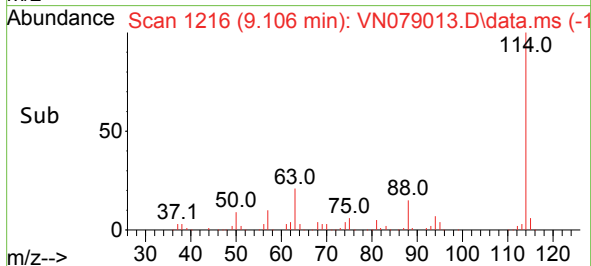
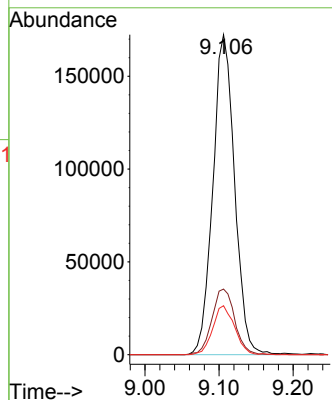
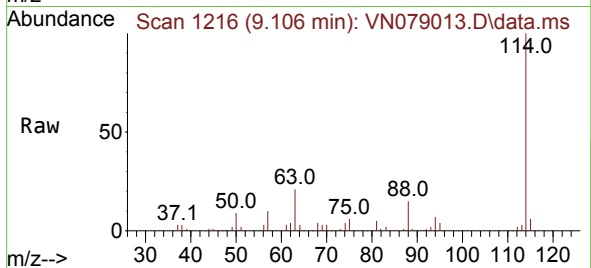
Tgt Ion:114 Resp: 351122

Ion Ratio Lower Upper

114 100

63 20.5 0.0 36.4

88 15.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 51.774 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN079013.D

Acq: 23 Aug 2023 13:59

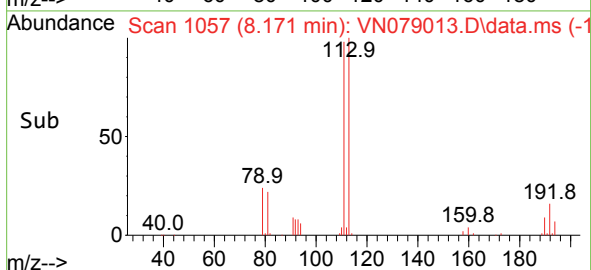
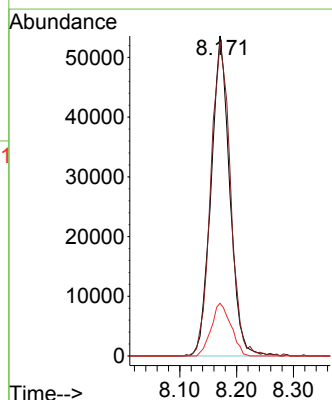
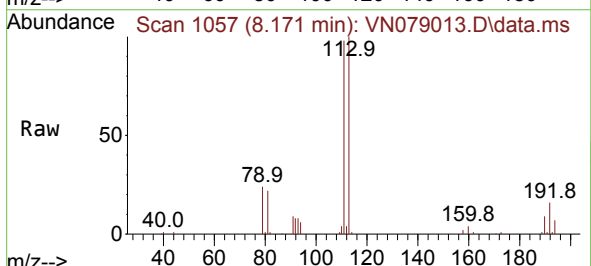
Tgt Ion:113 Resp: 122371

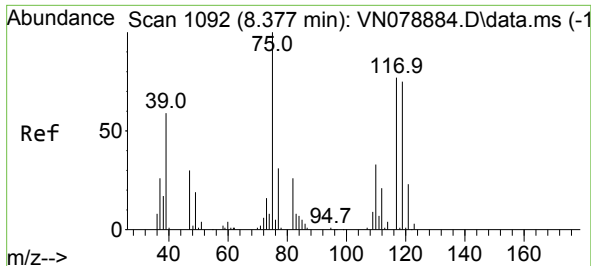
Ion Ratio Lower Upper

113 100

111 103.3 82.6 123.8

192 17.3 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.468 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

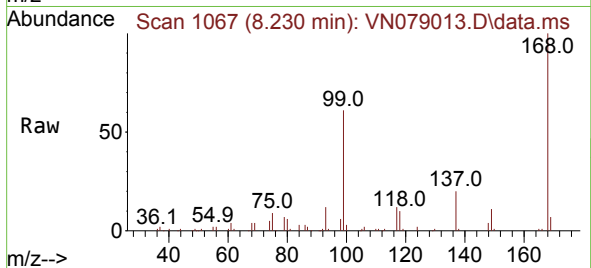
Lab File: VN079013.D

Acq: 23 Aug 2023 13:59

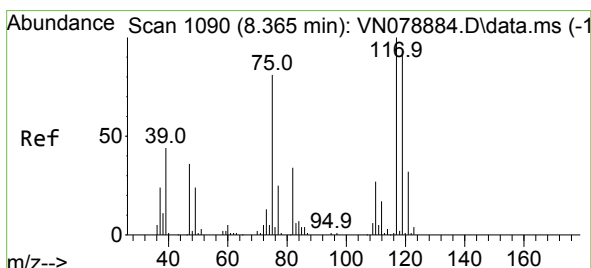
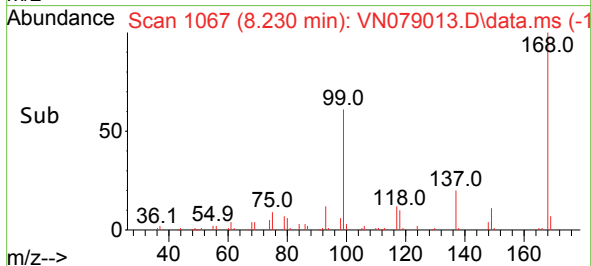
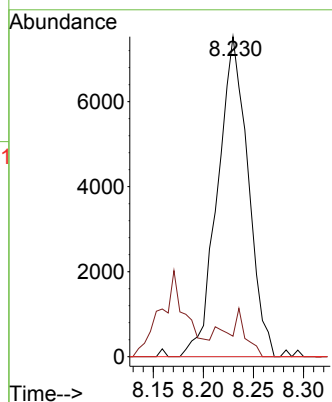
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 75	Resp: 15887
Ion Ratio	Lower Upper
75	100
110	10.1 19.1 57.3#
77	0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.945 ug/l

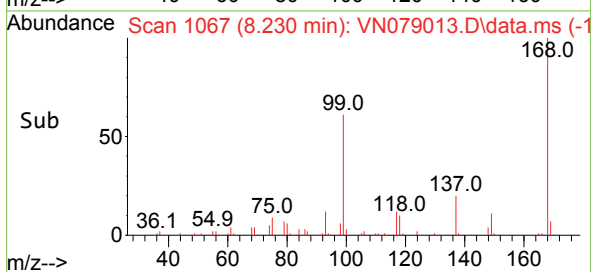
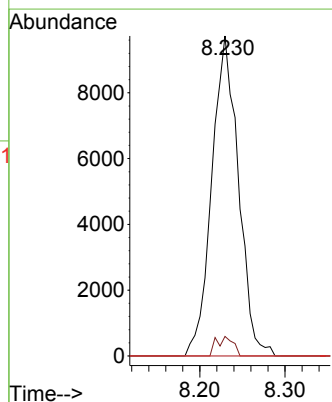
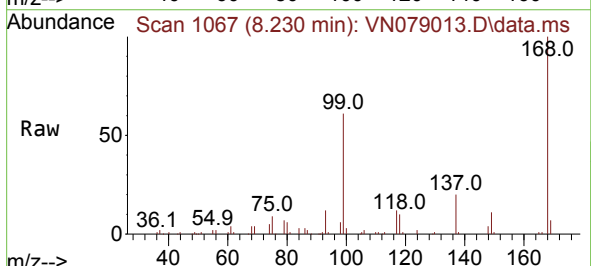
RT: 8.230 min Scan# 1067

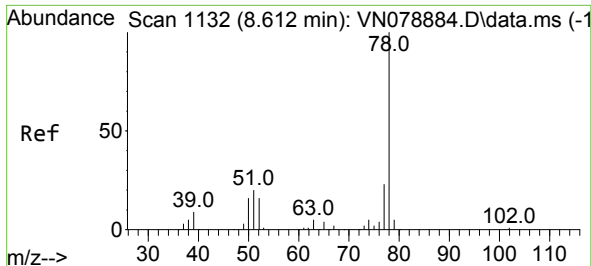
Delta R.T. -0.141 min

Lab File: VN079013.D

Acq: 23 Aug 2023 13:59

Tgt Ion: 117	Resp: 21179
Ion Ratio	Lower Upper
117	100
119	6.1 77.3 115.9#
121	0.0 23.3 34.9#

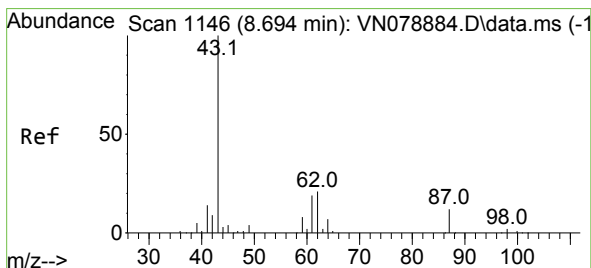
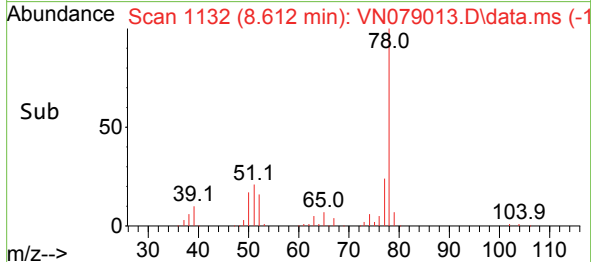
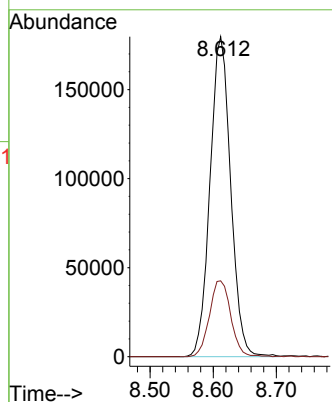
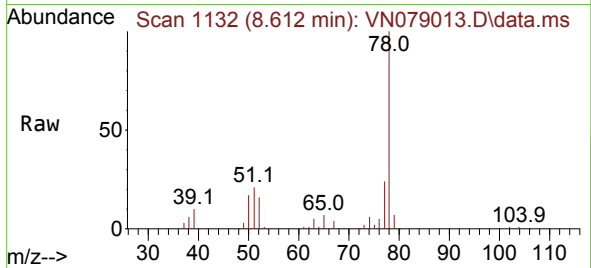




#40
Benzene
Concen: 38.817 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

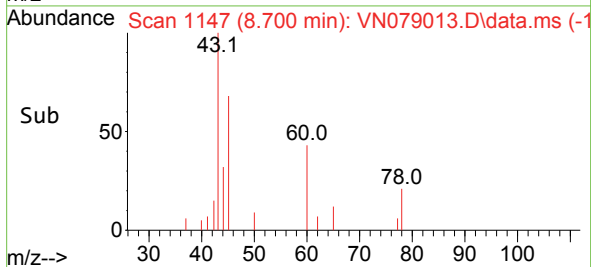
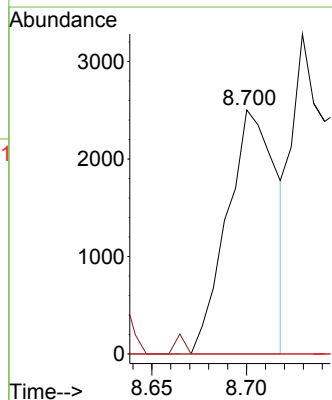
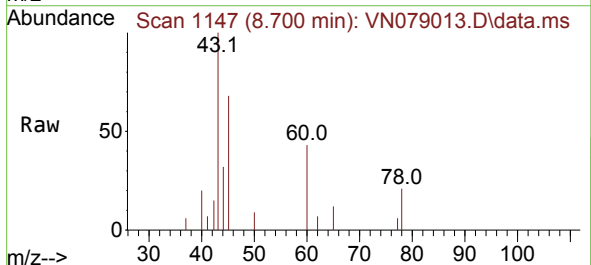
Instrument :
MSVOA_N
ClientSampleId :

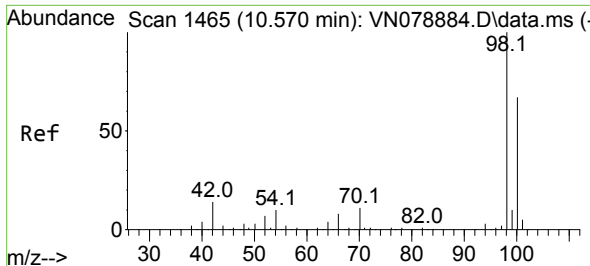
Tgt Ion: 78 Resp: 407926
Ion Ratio Lower Upper
78 100
77 23.7 19.0 28.6



#43
Isopropyl Acetate
Concen: 0.639 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.006 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

Tgt Ion: 43 Resp: 4490
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#

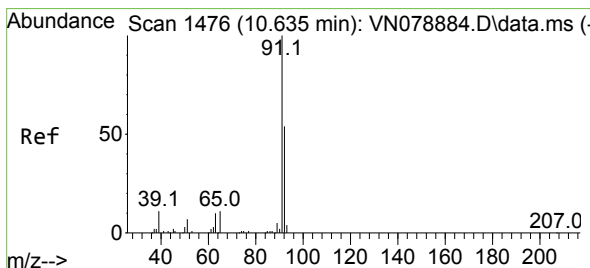
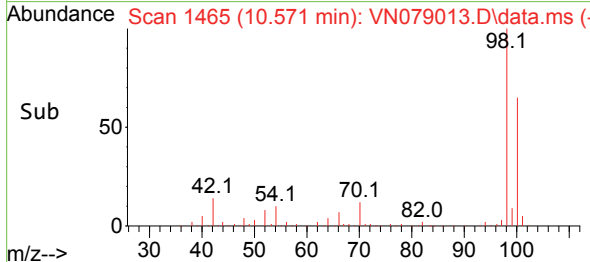
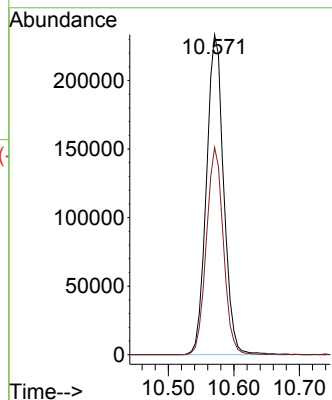
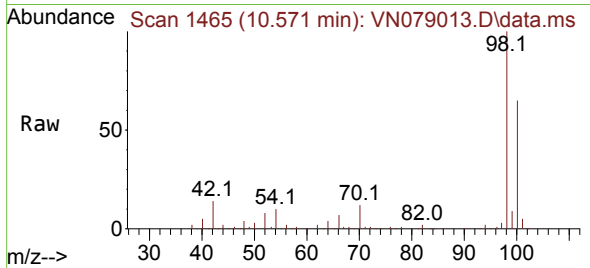




#50
Toluene-d8
Concen: 48.573 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

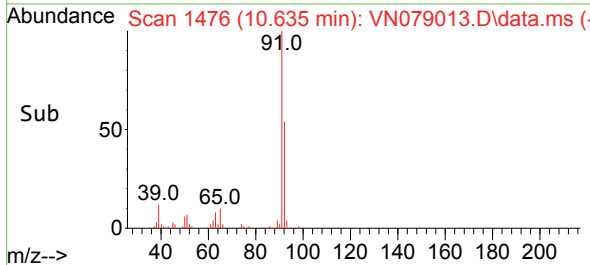
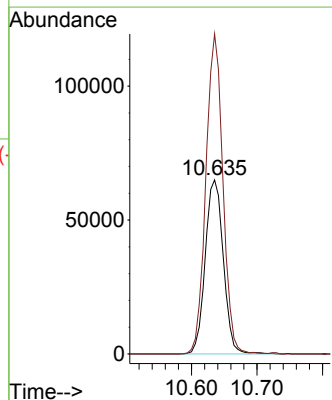
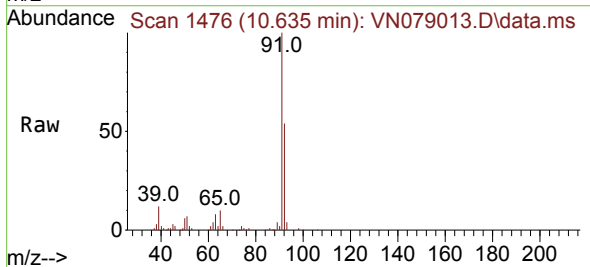
Instrument :
MSVOA_N
ClientSampleId :

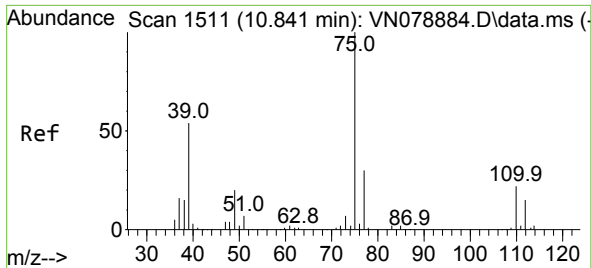
Tgt Ion: 98 Resp: 426284
Ion Ratio Lower Upper
98 100
100 63.7 52.0 78.0



#52
Toluene
Concen: 19.317 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

Tgt Ion: 92 Resp: 124633
Ion Ratio Lower Upper
92 100
91 173.4 137.4 206.0

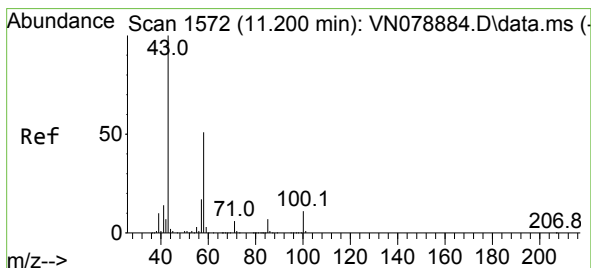
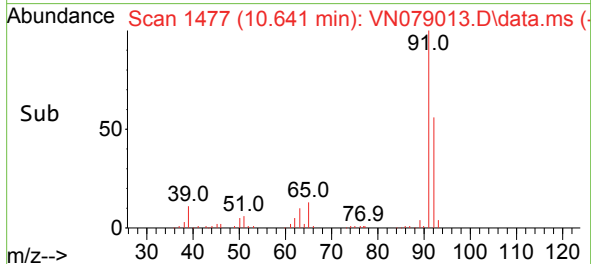
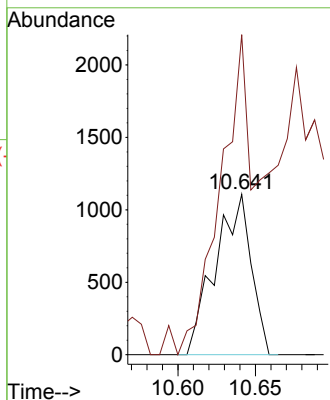
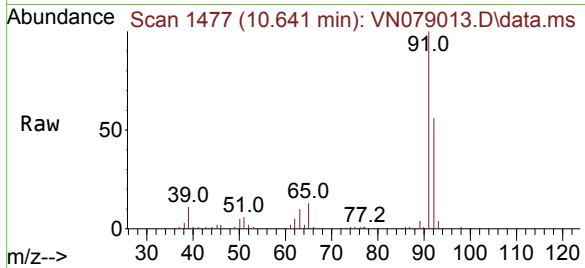




#53
t-1,3-Dichloropropene
Concen: 0.441 ug/l
RT: 10.641 min Scan# 1477
Delta R.T. -0.200 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

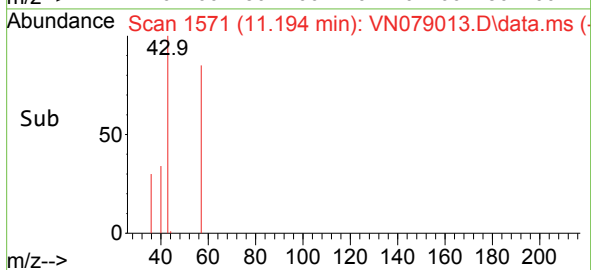
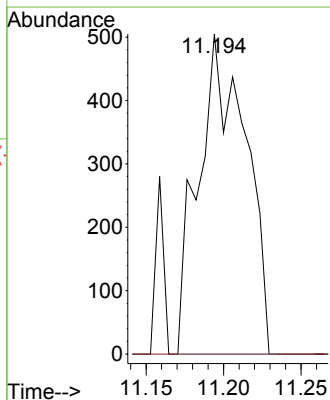
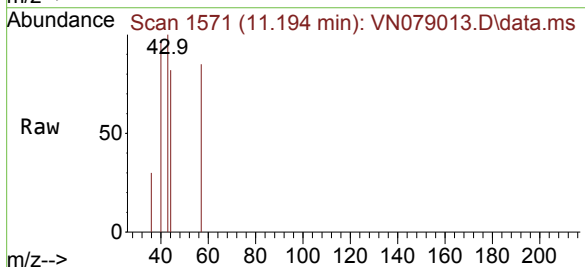
Instrument :
MSVOA_N
ClientSampleId :

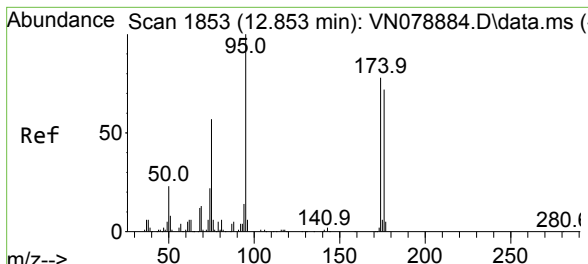
Tgt Ion: 75 Resp: 1791
Ion Ratio Lower Upper
75 100
77 199.5 25.4 38.0#



#59
2-Hexanone
Concen: 0.354 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.006 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

Tgt Ion: 43 Resp: 1068
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#

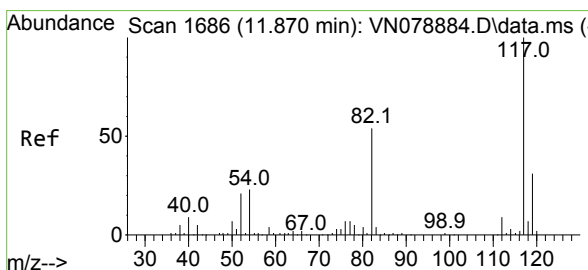
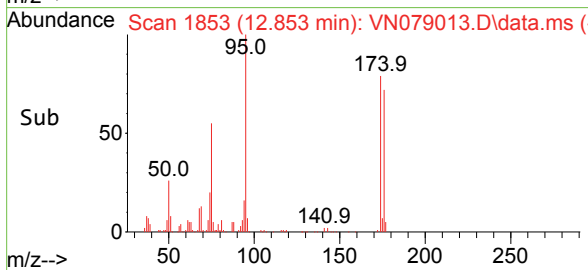
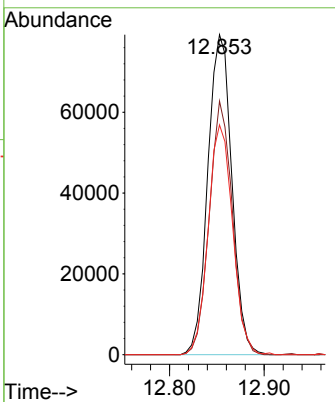
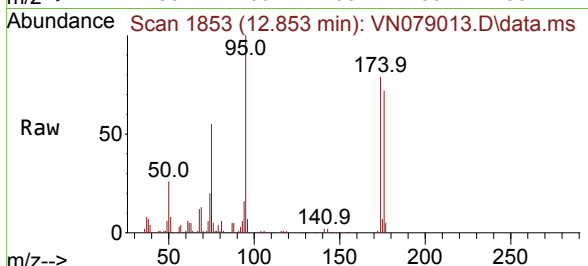




#62
4-Bromofluorobenzene
Concen: 48.758 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

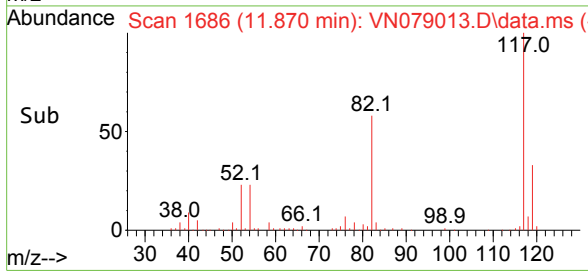
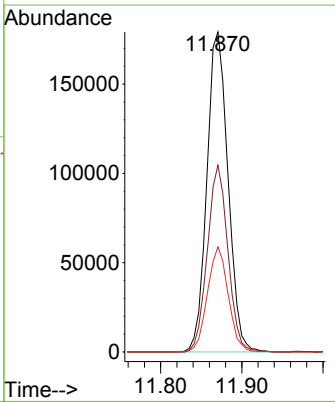
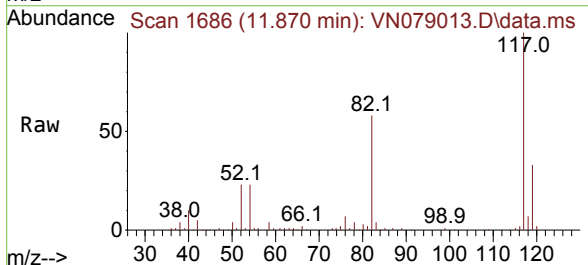
Instrument :
MSVOA_N
ClientSampleId :

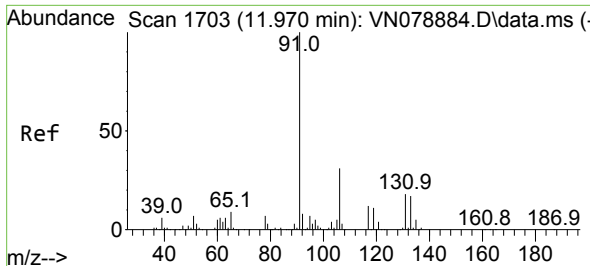
Tgt Ion:	95	Resp:	139865
Ion Ratio	Lower	Upper	
95	100		
174	75.8	0.0	143.8
176	72.9	0.0	135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.001 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

Tgt Ion:	117	Resp:	323625
Ion Ratio	Lower	Upper	
117	100		
82	58.3	44.0	66.0
119	32.9	25.6	38.4

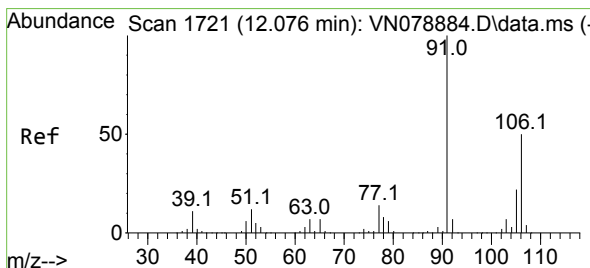
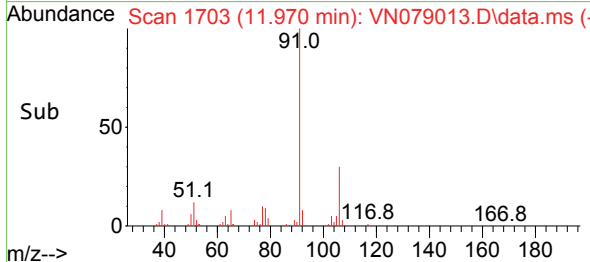
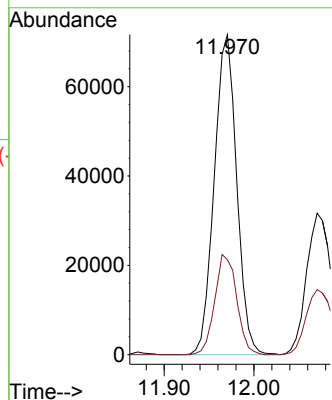
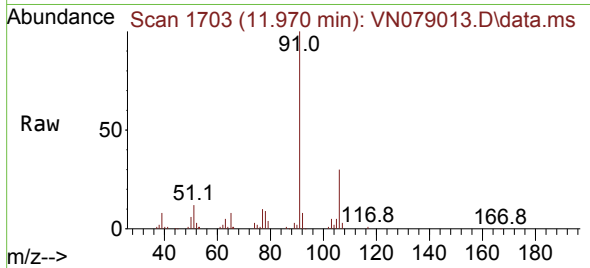




#67
Ethyl Benzene
Concen: 9.926 ug/l
RT: 11.970 min Scan# 1703
Delta R.T. -0.001 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

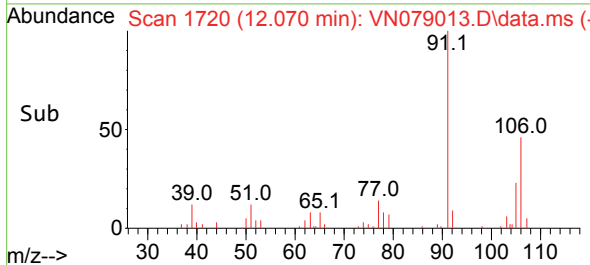
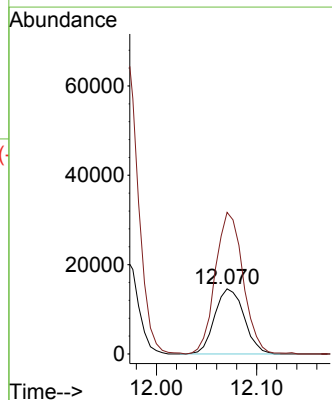
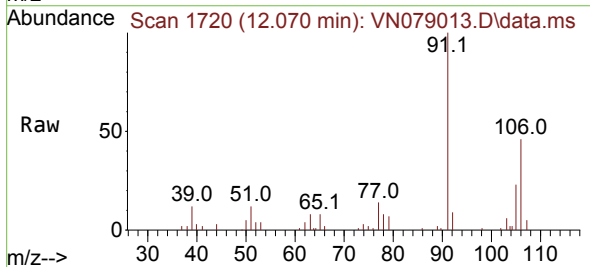
Instrument :
MSVOA_N
ClientSampleId :

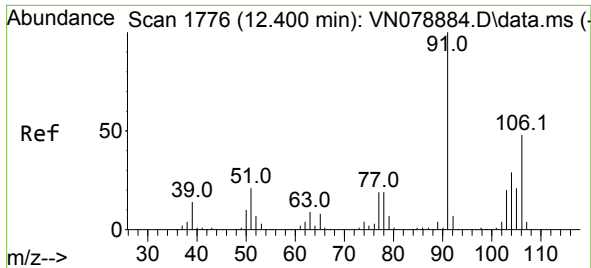
Tgt Ion: 91 Resp: 124348
Ion Ratio Lower Upper
91 100
106 29.7 25.6 38.4



#68
m/p-Xylenes
Concen: 6.337 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.006 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

Tgt Ion: 106 Resp: 29683
Ion Ratio Lower Upper
106 100
91 206.4 159.6 239.4

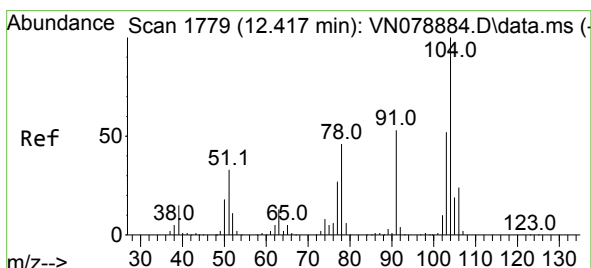
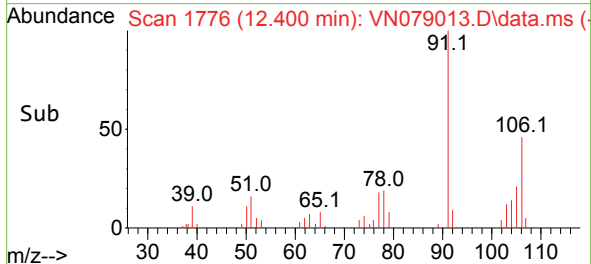
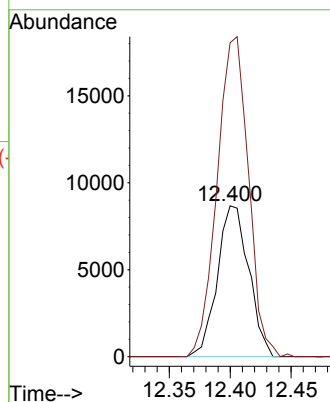
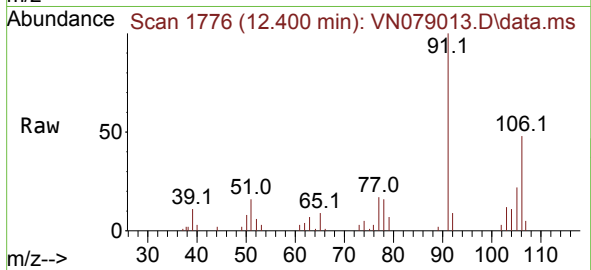




#69
o-Xylene
Concen: 3.423 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

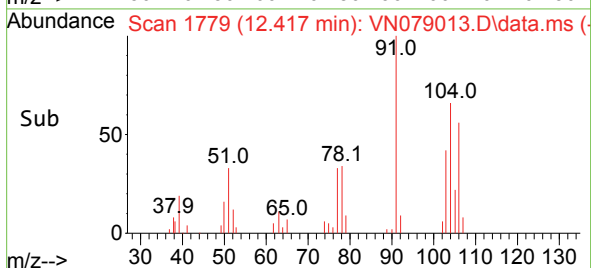
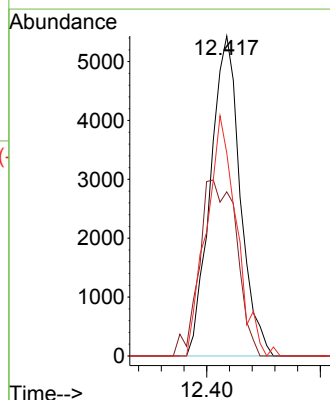
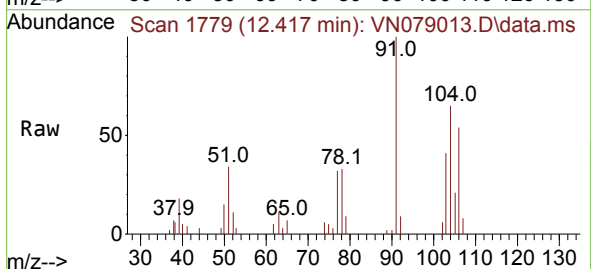
Instrument :
MSVOA_N
ClientSampleId :

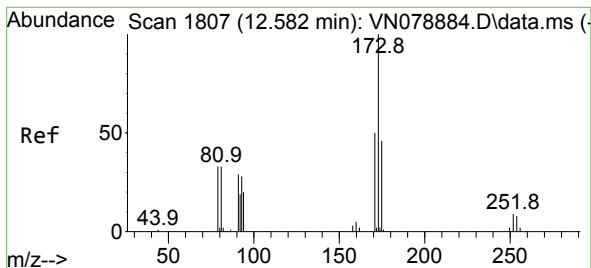
Tgt Ion:106 Resp: 15598
Ion Ratio Lower Upper
106 100
91 211.4 105.2 315.5



#70
Styrene
Concen: 1.302 ug/l
RT: 12.417 min Scan# 1779
Delta R.T. -0.001 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

Tgt Ion:104 Resp: 9894
Ion Ratio Lower Upper
104 100
78 68.8 39.5 59.3#
103 75.8 43.2 64.8#





#71

Bromoform

Concen: 0.434 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.265 min

Lab File: VN079013.D

Acq: 23 Aug 2023 13:59

Instrument :

MSVOA_N

ClientSampleId :

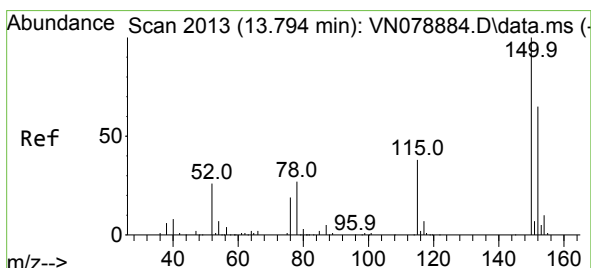
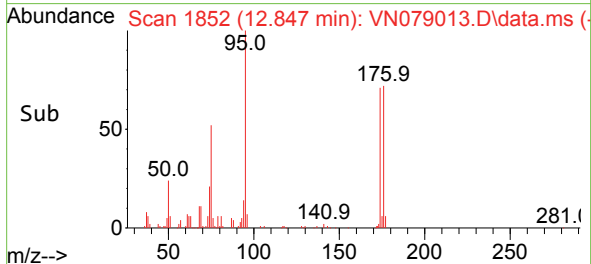
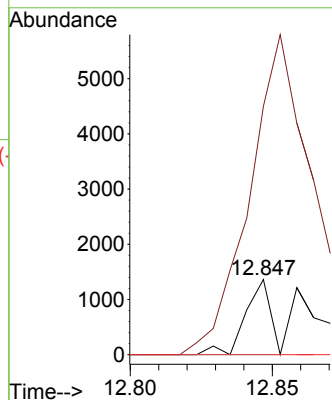
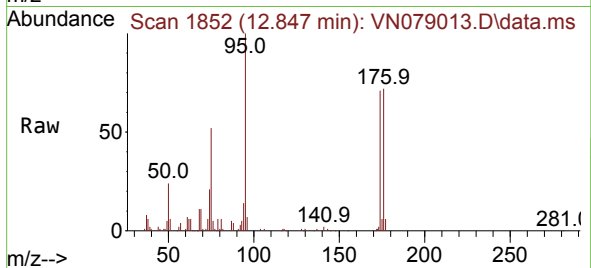
Tgt Ion:173 Resp: 822

Ion Ratio Lower Upper

173 100

175 824.1 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: VN079013.D

Acq: 23 Aug 2023 13:59

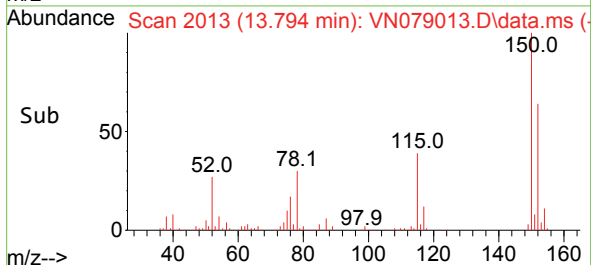
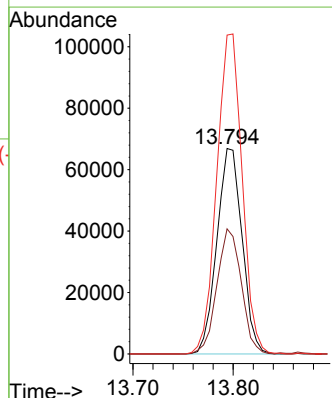
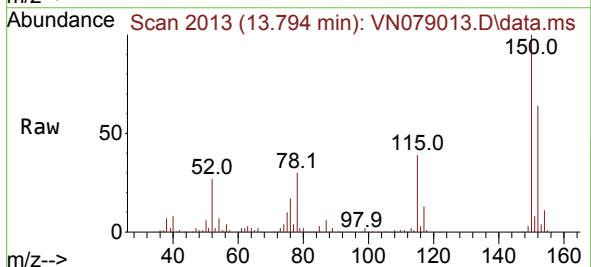
Tgt Ion:152 Resp: 116928

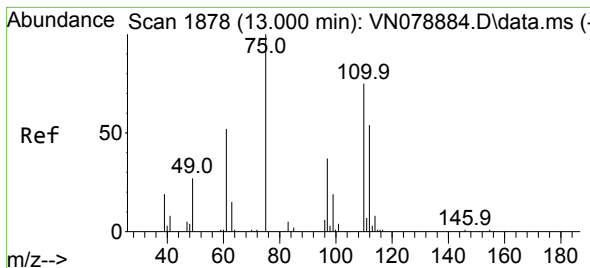
Ion Ratio Lower Upper

152 100

115 58.6 32.3 96.8

150 156.6 0.0 355.8





#76

1,2,3-Trichloropropane

Concen: 26.480 ug/l

RT: 12.853 min Scan# 11

Delta R.T. -0.147 min

Lab File: VN079013.D

Acq: 23 Aug 2023 13:59

Instrument :

MSVOA_N

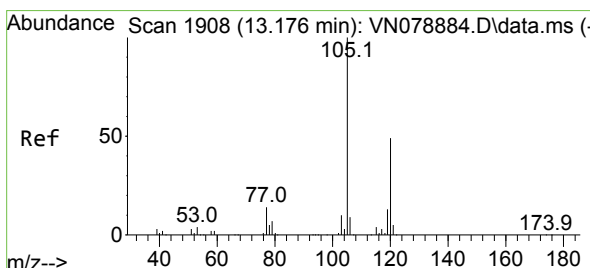
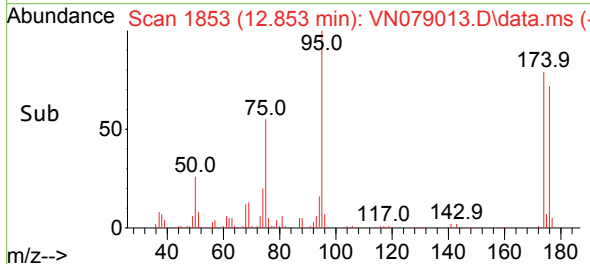
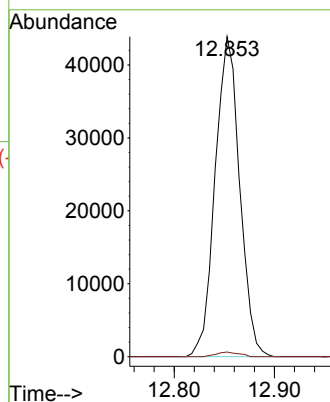
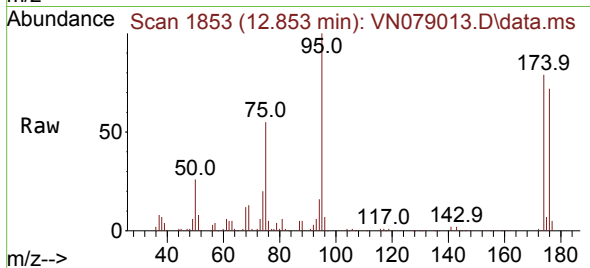
ClientSampleId :

Tgt Ion: 75 Resp: 74604

Ion Ratio Lower Upper

75 100

77 1.3 84.5 253.5#



#80

1,3,5-Trimethylbenzene

Concen: 0.373 ug/l

RT: 13.176 min Scan# 1908

Delta R.T. 0.000 min

Lab File: VN079013.D

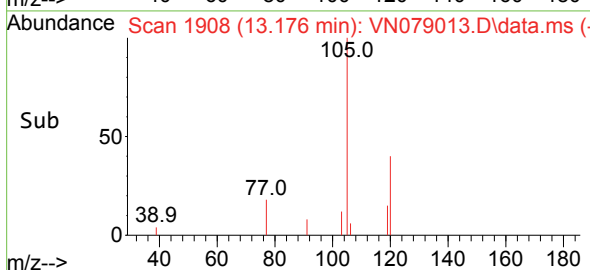
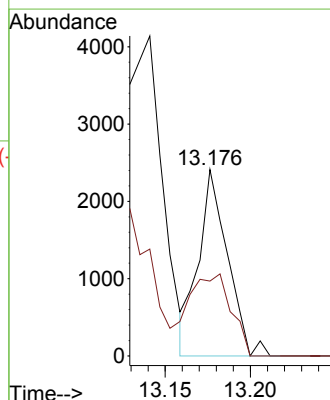
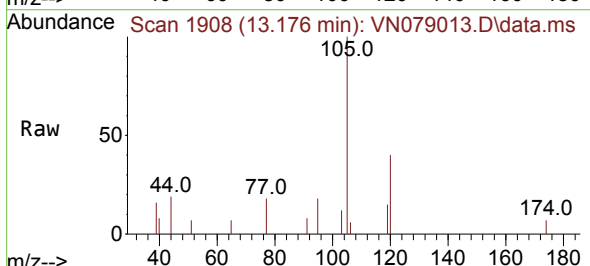
Acq: 23 Aug 2023 13:59

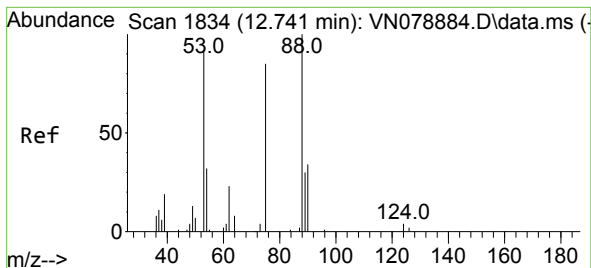
Tgt Ion: 105 Resp: 2882

Ion Ratio Lower Upper

105 100

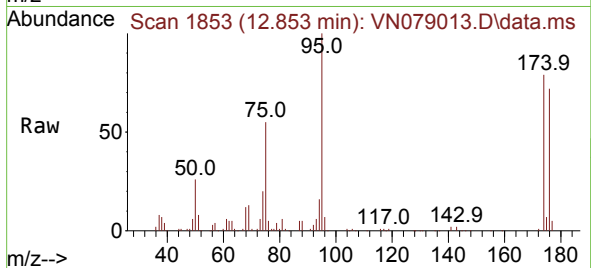
120 64.7 24.1 72.3



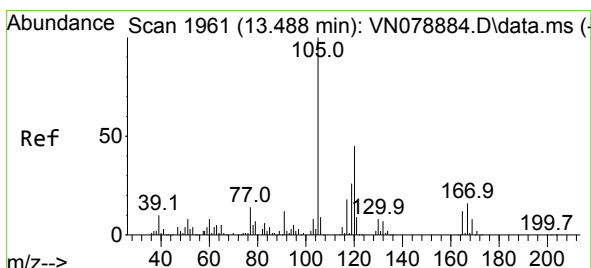
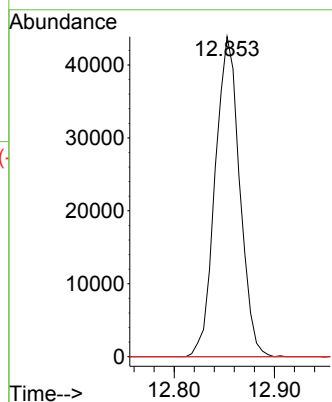
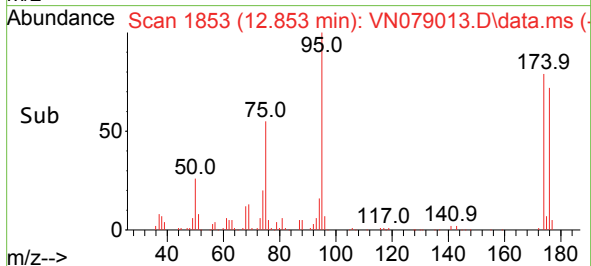


#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.644 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN079013.D
 Acq: 23 Aug 2023 13:59

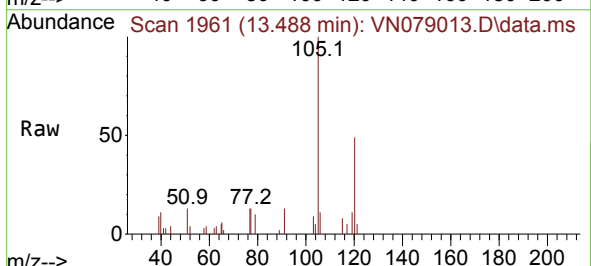
Instrument :
 MSVOA_N
 ClientSampleId :



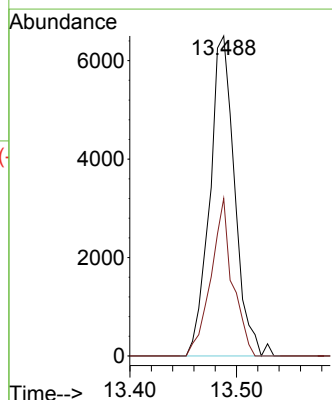
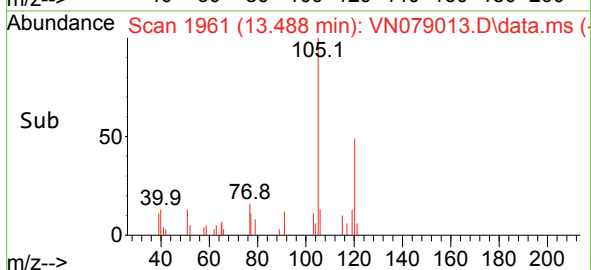
Tgt Ion: 75 Resp: 74604
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

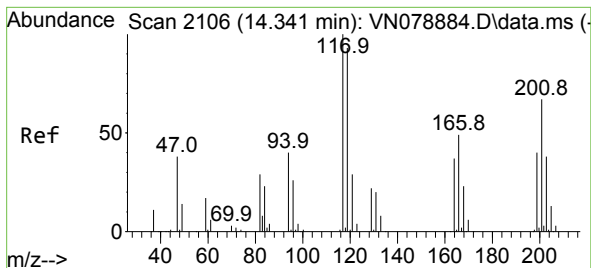


#84
 1,2,4-Trimethylbenzene
 Concen: 1.382 ug/l
 RT: 13.488 min Scan# 1961
 Delta R.T. 0.000 min
 Lab File: VN079013.D
 Acq: 23 Aug 2023 13:59



Tgt Ion: 105 Resp: 10573
 Ion Ratio Lower Upper
 105 100
 120 42.6 22.0 66.0





#90

Hexachloroethane

Concen: 0.326 ug/l

RT: 14.453 min Scan# 2106

Delta R.T. 0.118 min

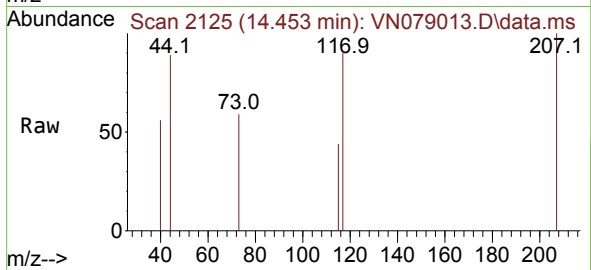
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Acq: 23 Aug 2023 13:59

Instrument :

MSVOA_N

ClientSampleId :

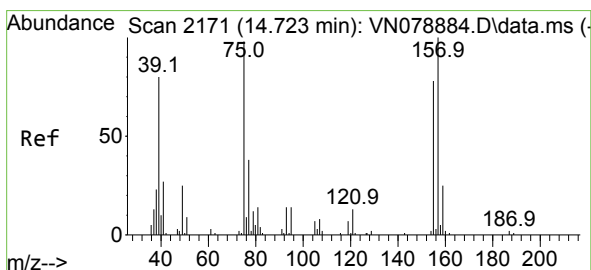
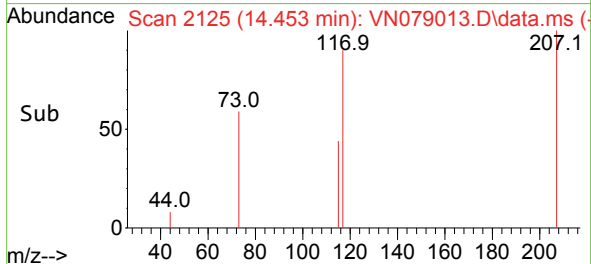
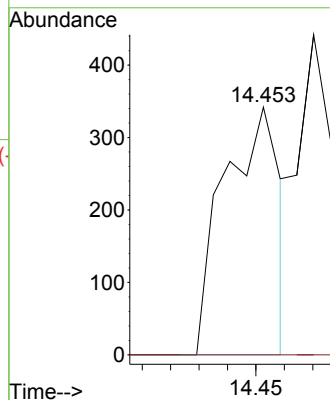


Tgt Ion:117 Resp: 466

Ion Ratio Lower Upper

117 100

201 0.0 29.3 88.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.735 min Scan# 2173

Delta R.T. 0.012 min

Lab File: VN079013.D

Acq: 23 Aug 2023 13:59

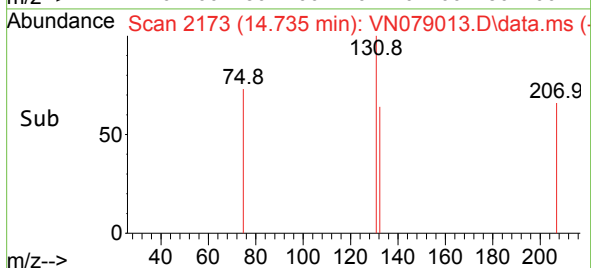
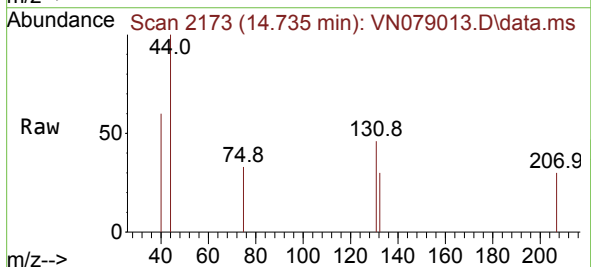
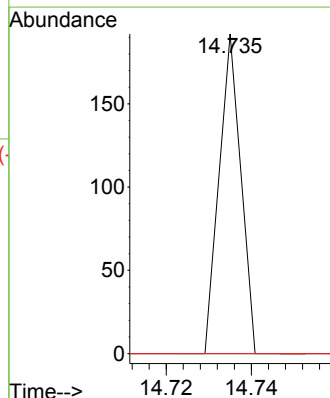
Tgt Ion: 75 Resp: 68

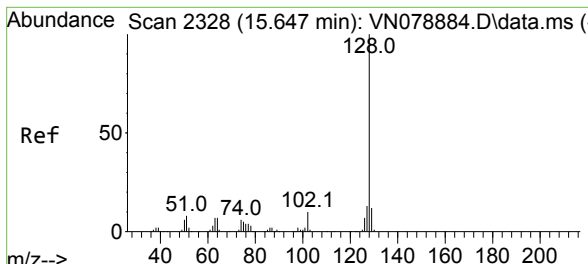
Ion Ratio Lower Upper

75 100

155 0.0 39.1 117.2#

157 0.0 50.3 150.9#

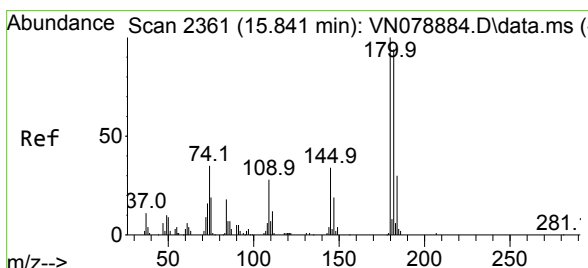
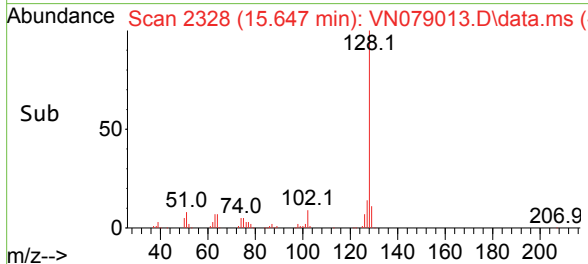
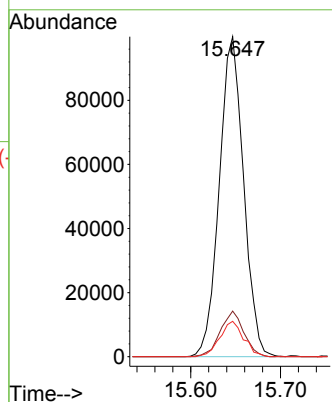
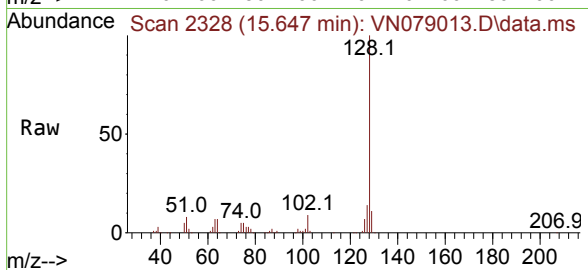




#95
Naphthalene
Concen: 35.583 ug/l
RT: 15.647 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 187515
Ion Ratio Lower Upper
128 100
127 13.8 10.0 15.0
129 10.9 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 0.444 ug/l
RT: 15.847 min Scan# 2362
Delta R.T. -0.000 min
Lab File: VN079013.D
Acq: 23 Aug 2023 13:59

Tgt Ion:180 Resp: 691
Ion Ratio Lower Upper
180 100
182 49.8 46.2 138.6
145 9.4 17.5 52.6#

