

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110723\
 Data File : VN079965.D
 Acq On : 07 Nov 2023 15:22
 Operator : JC\MD
 Sample : 05222-05DL 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 08 04:29:10 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)

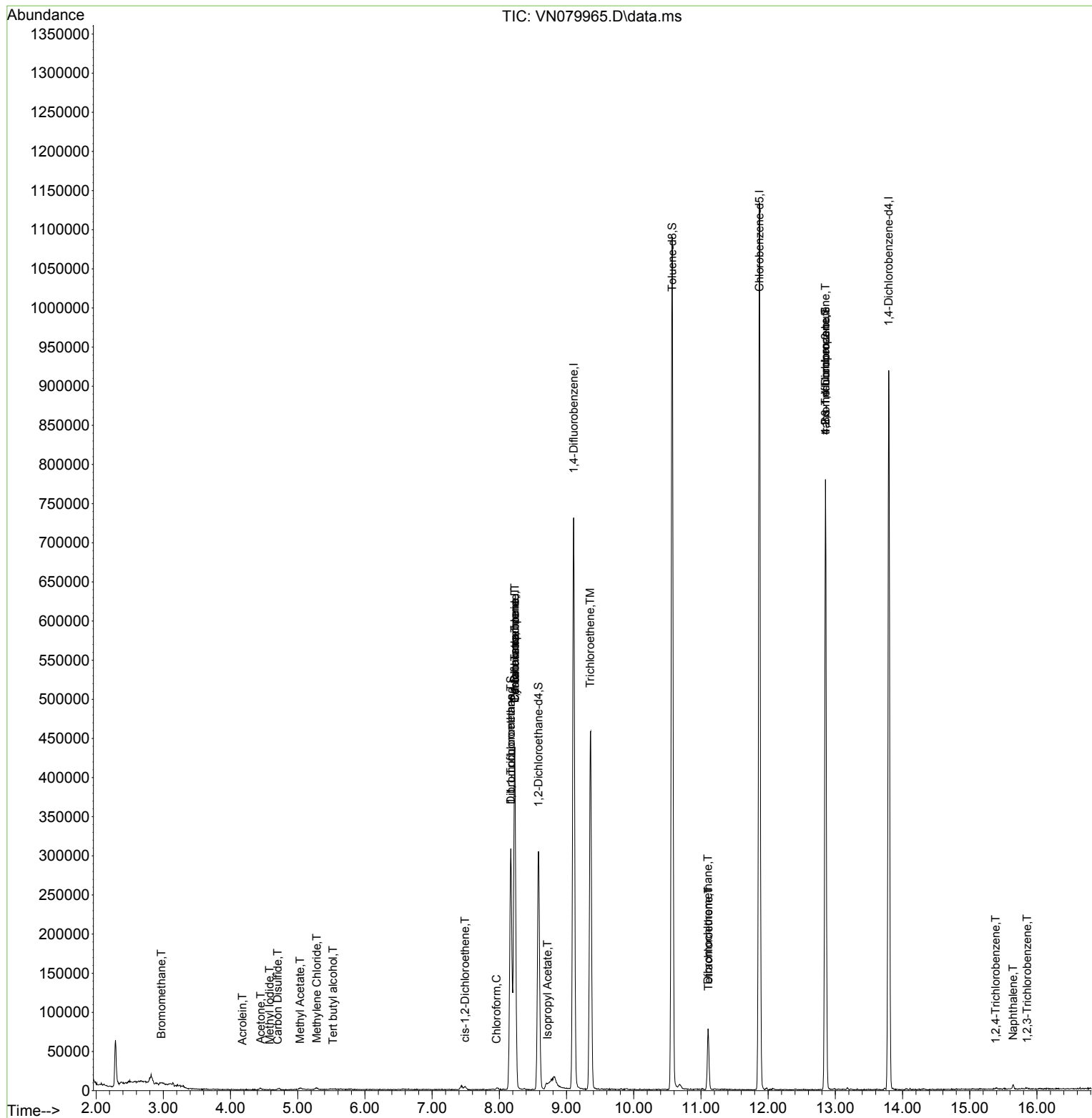
Internal Standards						
1) Pentafluorobenzene	8.230	168	304993	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	606583	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	621200	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	237015	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	249927	53.786	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 107.580%	
35) Dibromofluoromethane	8.171	113	208251	48.508	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 97.020%	
50) Toluene-d8	10.571	98	742322	46.969	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 93.940%	
62) 4-Bromofluorobenzene	12.853	95	259813	49.567	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 99.140%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.360	50	1355	Below Cal		98
5) Bromomethane	2.971	94	954	0.327	ug/l #	51
10) Methyl Iodide	4.583	142	819	0.207	ug/l #	84
11) Tert butyl alcohol	5.524	59	174	0.293	ug/l #	72
13) Acrolein	4.177	56	122	2.796	ug/l #	16
16) Acetone	4.448	43	3631	2.225	ug/l #	87
17) Carbon Disulfide	4.701	76	2007	0.212	ug/l #	75
18) Methyl Acetate	5.036	43	3744	0.479	ug/l #	65
20) Methylene Chloride	5.283	84	1429	0.347	ug/l #	69
27) cis-1,2-Dichloroethene	7.489	96	2067	0.472	ug/l	92
30) Chloroform	7.959	83	2451	0.319	ug/l #	52
31) Cyclohexane	8.230	56	7994	1.302	ug/l #	35
32) 1,1,1-Trichloroethane	8.171	97	8962	1.430	ug/l #	47
36) 1,1-Dichloropropene	8.230	75	27570	4.498	ug/l #	47
38) Carbon Tetrachloride	8.230	117	35806	5.796	ug/l #	16
43) Isopropyl Acetate	8.718	43	7203	0.731	ug/l #	49
44) Trichloroethene	9.353	130	164703	36.152	ug/l	99
60) Dibromochloromethane	11.106	129	16517	3.525	ug/l #	11
64) Tetrachloroethene	11.112	164	16893	4.199	ug/l	87
76) 1,2,3-Trichloropropane	12.853	75	144040	25.886	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	144040	70.430	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.388	180	835	0.227	ug/l #	17
95) Naphthalene	15.647	128	4858	0.390	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.853	180	730	0.203	ug/l	94

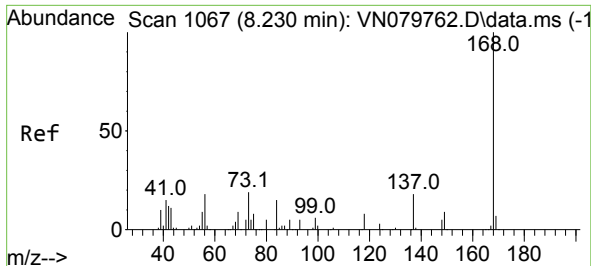
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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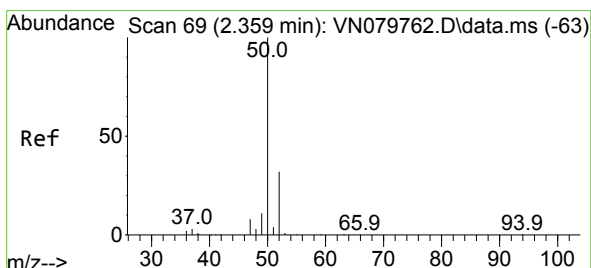
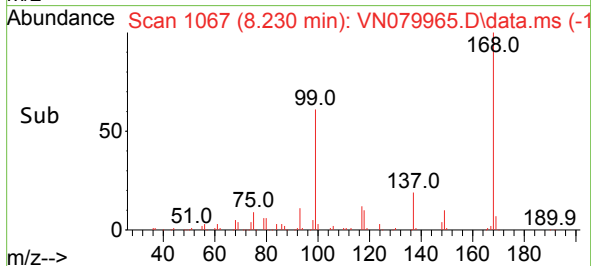
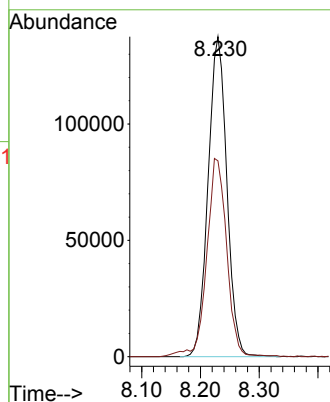
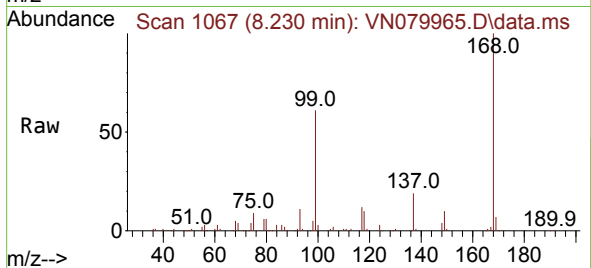




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. 0.001 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22

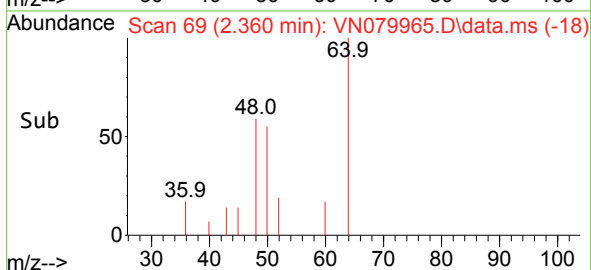
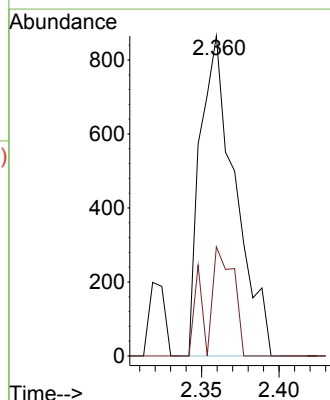
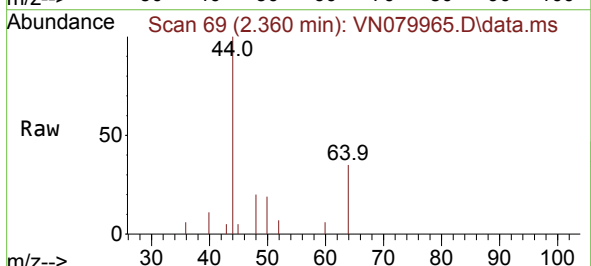
Instrument :
MSVOA_N
ClientSampleId :

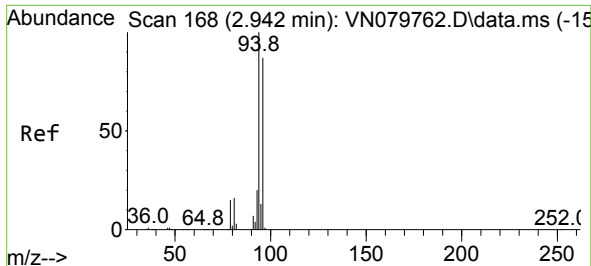
Tgt Ion:168 Resp: 304993
Ion Ratio Lower Upper
168 100
99 61.1 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.360 min Scan# 69
Delta R.T. 0.001 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22

Tgt Ion: 50 Resp: 1355
Ion Ratio Lower Upper
50 100
52 34.1 26.5 39.7

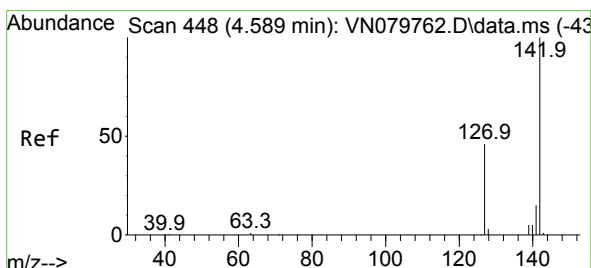
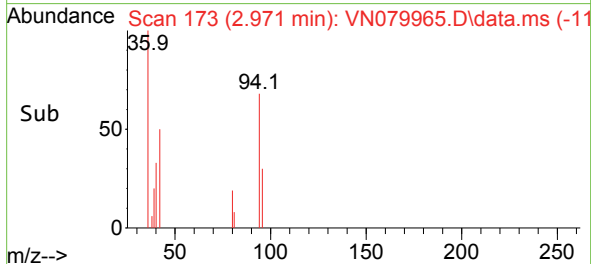
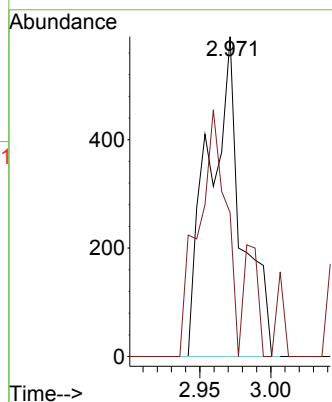
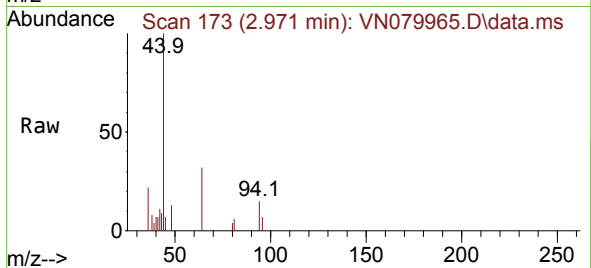




#5
Bromomethane
Concen: 0.327 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22

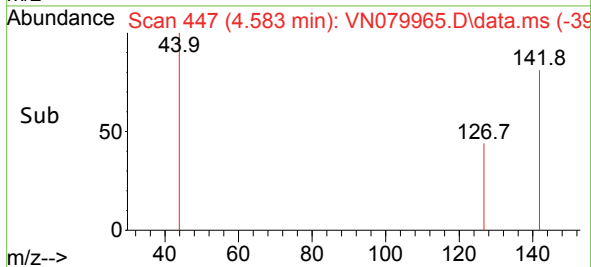
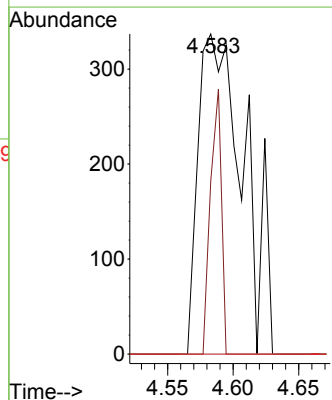
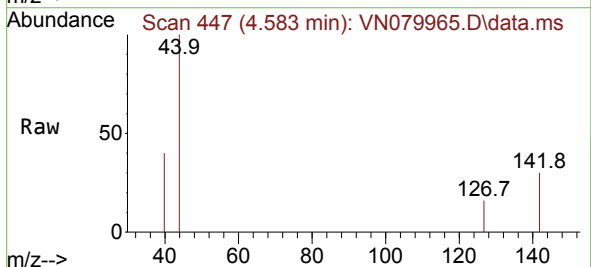
Instrument :
MSVOA_N
ClientSampleId :

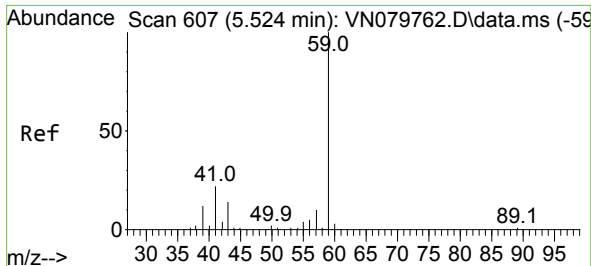
Tgt Ion: 94 Resp: 954
Ion Ratio Lower Upper
94 100
96 44.9 73.1 109.7#



#10
Methyl Iodide
Concen: 0.207 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.012 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22

Tgt Ion:142 Resp: 819
Ion Ratio Lower Upper
142 100
127 54.0 37.6 56.4
141 0.0 11.4 17.0#

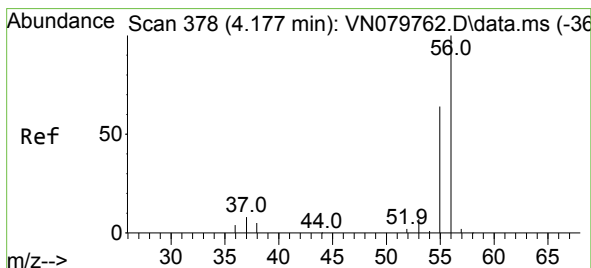
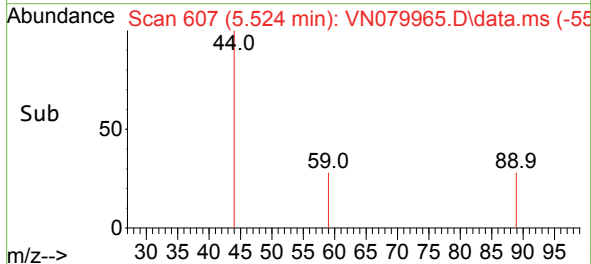
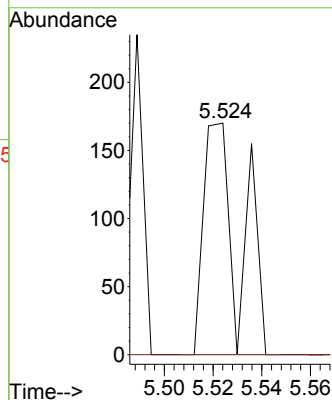
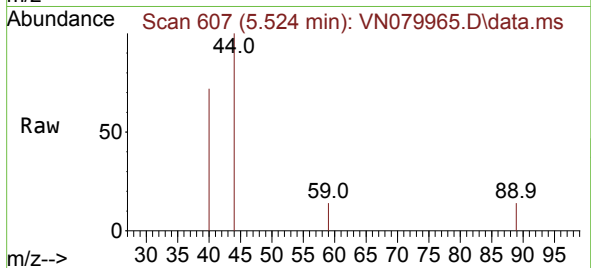




#11
Tert butyl alcohol
Concen: 0.293 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22

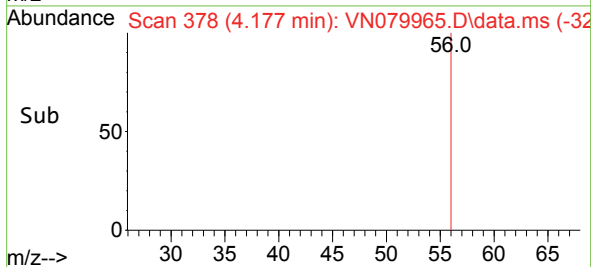
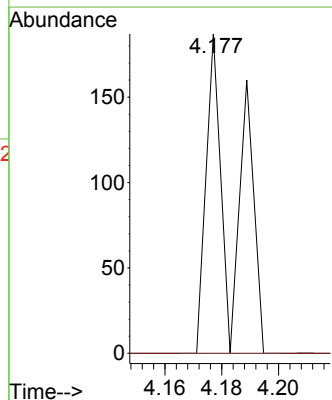
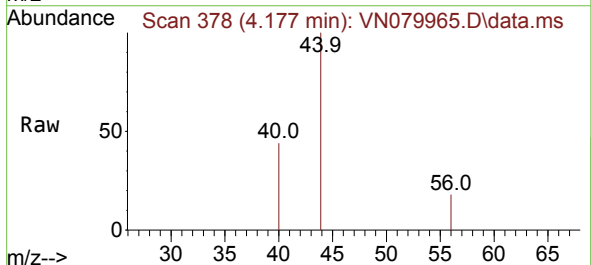
Instrument :
MSVOA_N
ClientSampleId :

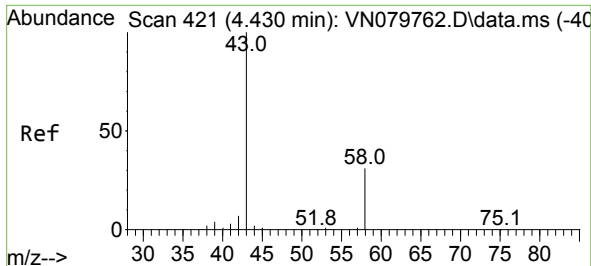
Tgt Ion: 59 Resp: 174
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 2.796 ug/l
RT: 4.177 min Scan# 378
Delta R.T. -0.006 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22

Tgt Ion: 56 Resp: 122
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#

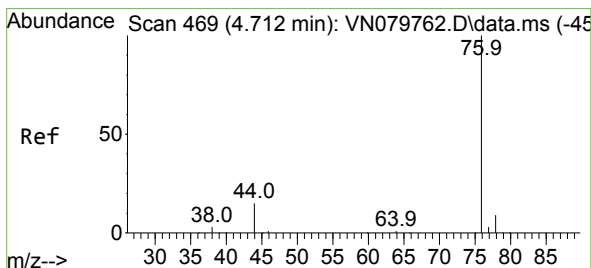
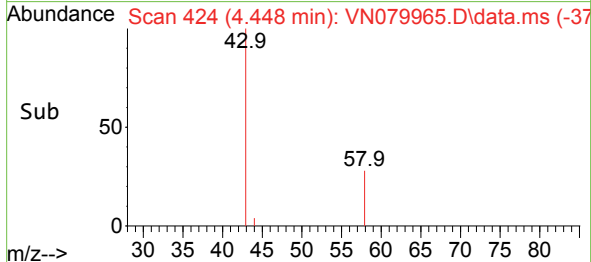
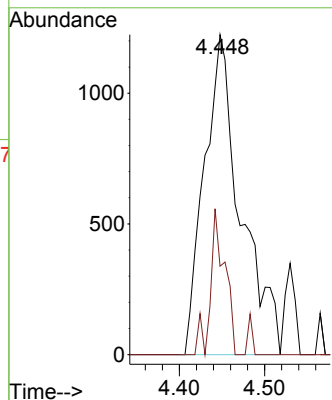
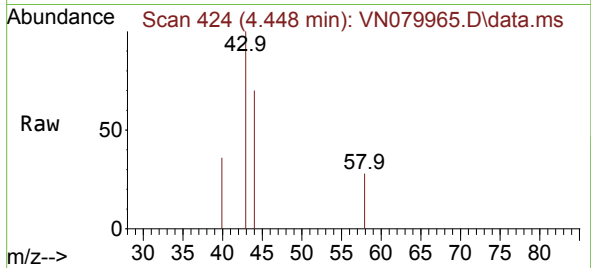




#16
Acetone
Concen: 2.225 ug/l
RT: 4.448 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22

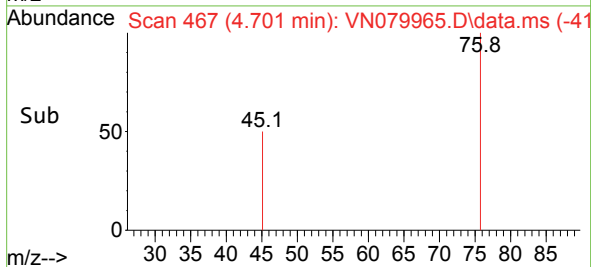
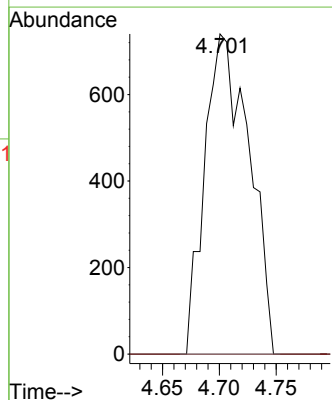
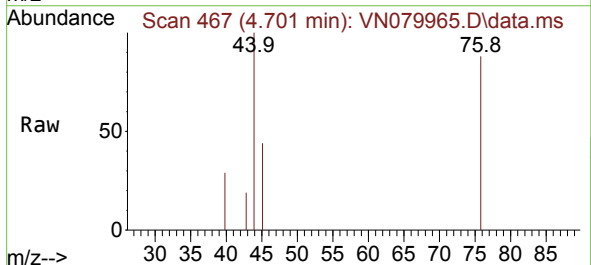
Instrument :
MSVOA_N
ClientSampleId :

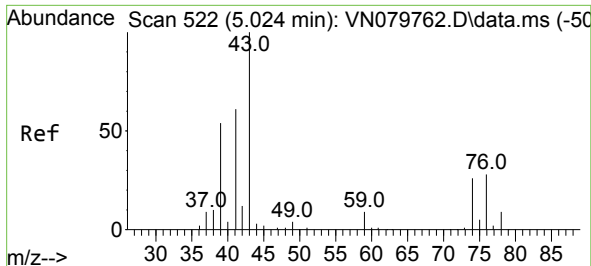
Tgt Ion: 43 Resp: 3631
Ion Ratio Lower Upper
43 100
58 27.6 28.0 42.0#



#17
Carbon Disulfide
Concen: 0.212 ug/l
RT: 4.701 min Scan# 467
Delta R.T. -0.012 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22

Tgt Ion: 76 Resp: 2007
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#

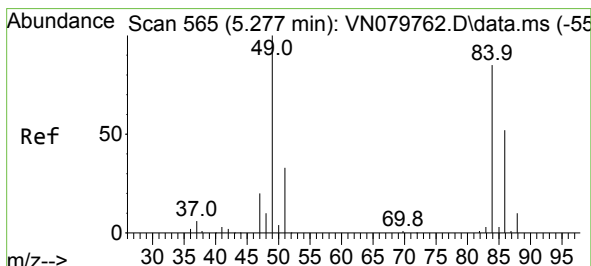
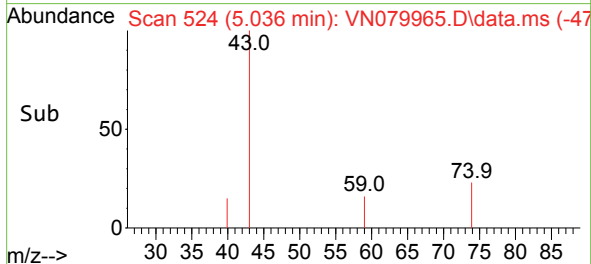
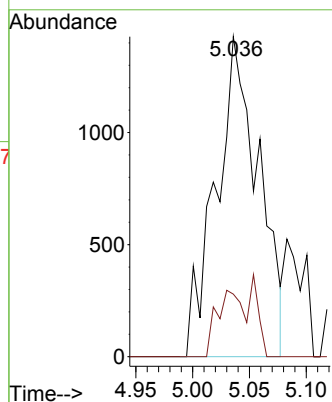
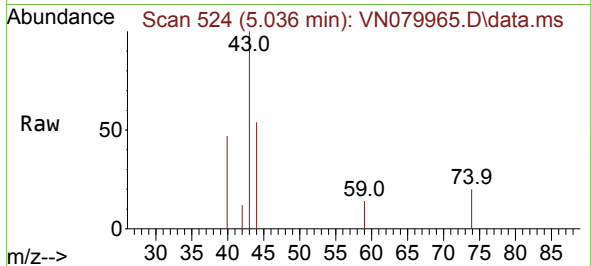




#18
Methyl Acetate
Concen: 0.479 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22

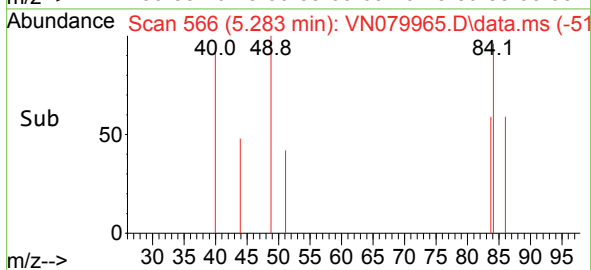
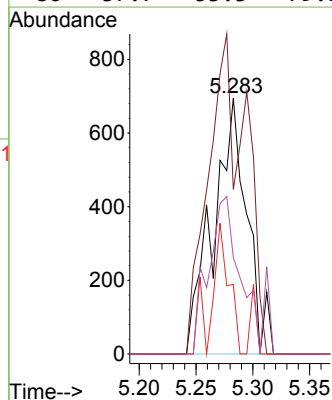
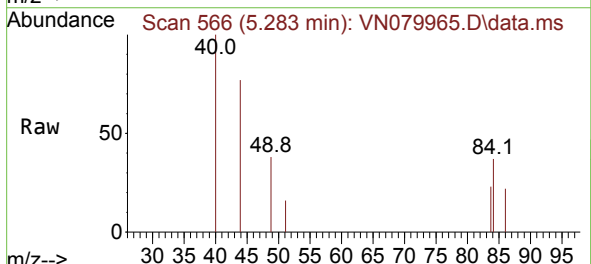
Instrument :
MSVOA_N
ClientSampleId :

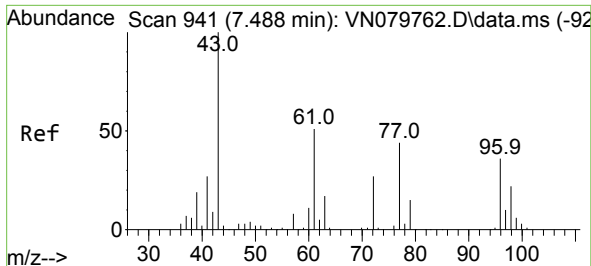
Tgt Ion: 43 Resp: 3744
Ion Ratio Lower Upper
43 100
74 12.8 26.2 39.4#



#20
Methylene Chloride
Concen: 0.347 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.012 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22

Tgt Ion: 84 Resp: 1429
Ion Ratio Lower Upper
84 100
49 64.3 79.7 119.5#
51 27.2 25.2 37.8
86 37.7 53.3 79.9#



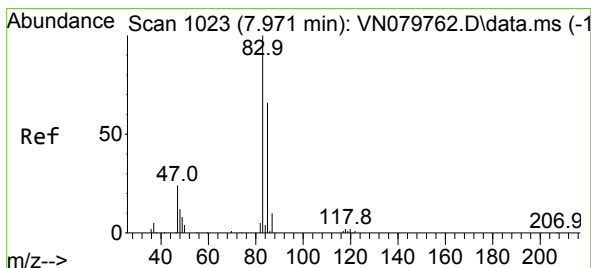
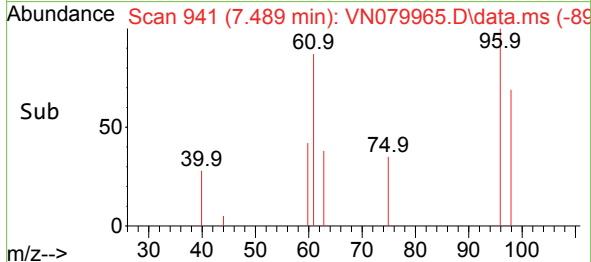
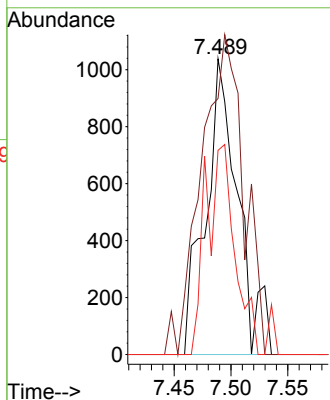
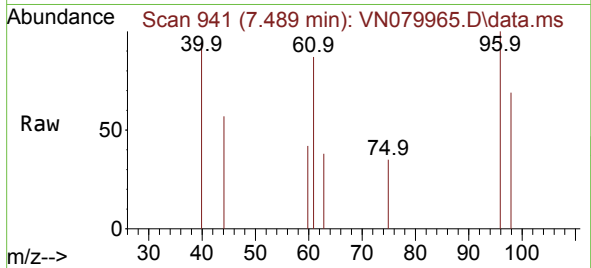


#27
 cis-1,2-Dichloroethene
 Concen: 0.472 ug/l
 RT: 7.489 min Scan# 941
 Delta R.T. 0.000 min
 Lab File: VN079965.D
 Acq: 07 Nov 2023 15:22

Instrument :
 MSVOA_N
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Tgt Ion: 96 Resp: 2067

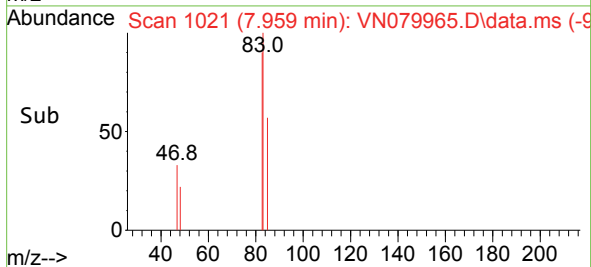
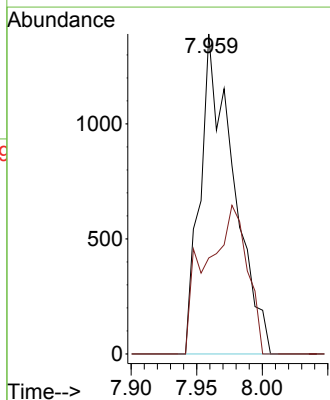
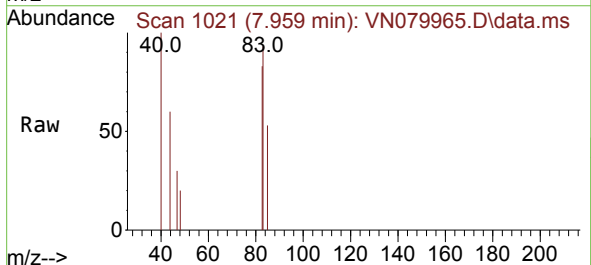
Ion	Ratio	Lower	Upper
96	100		
61	140.3	0.0	255.2
98	63.8	0.0	128.8

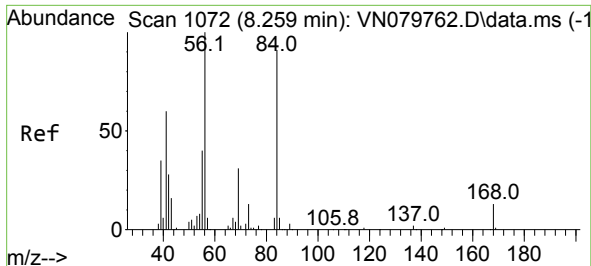


#30
 Chloroform
 Concen: 0.319 ug/l
 RT: 7.959 min Scan# 1021
 Delta R.T. -0.012 min
 Lab File: VN079965.D
 Acq: 07 Nov 2023 15:22

Tgt Ion: 83 Resp: 2451

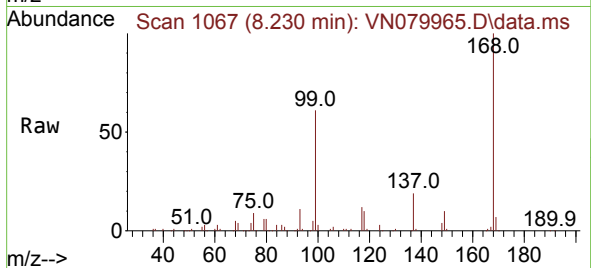
Ion	Ratio	Lower	Upper
83	100		
85	30.0	55.4	83.0#



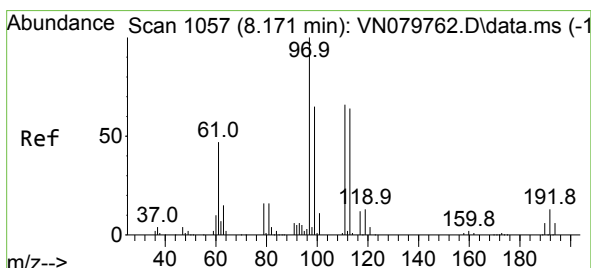
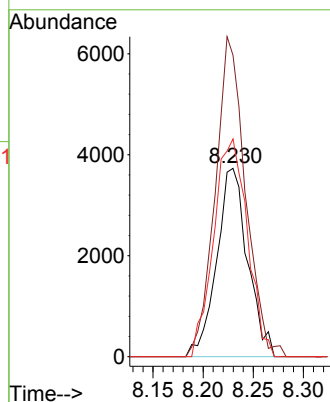
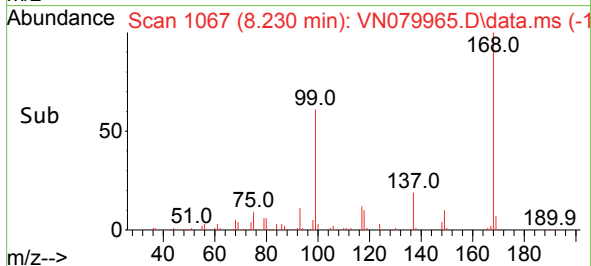


#31
Cyclohexane
Concen: 1.302 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22

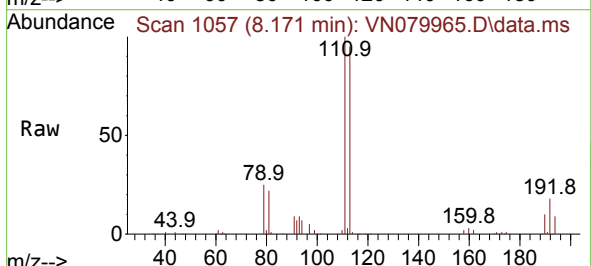
Instrument :
MSVOA_N
ClientSampleId :



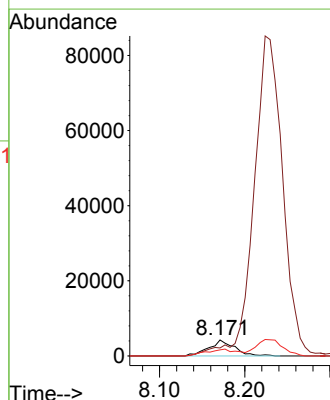
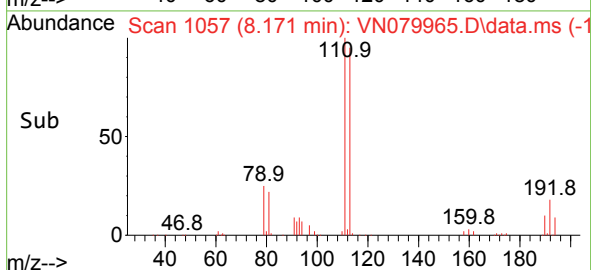
Tgt Ion: 56 Resp: 7994
Ion Ratio Lower Upper
56 100
69 160.0 26.8 40.2#
84 115.6 81.8 122.6

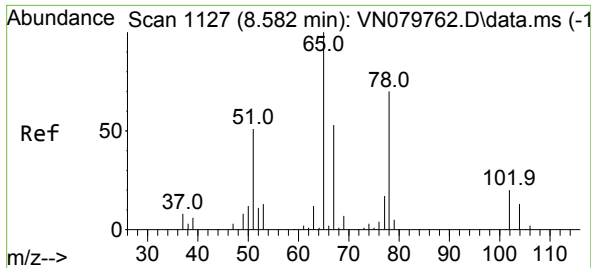


#32
1,1,1-Trichloroethane
Concen: 1.430 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22



Tgt Ion: 97 Resp: 8962
Ion Ratio Lower Upper
97 100
99 0.0 50.3 75.5#
61 51.0 34.7 52.1





#33

1,2-Dichloroethane-d4

Concen: 53.786 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079965.D

Acq: 07 Nov 2023 15:22

Instrument :

MSVOA_N

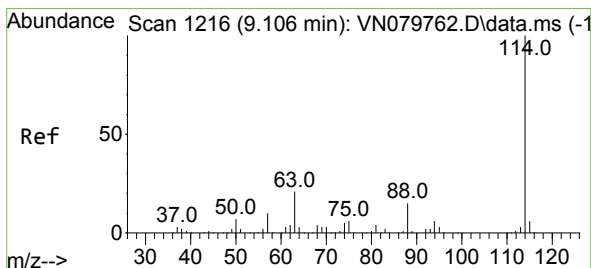
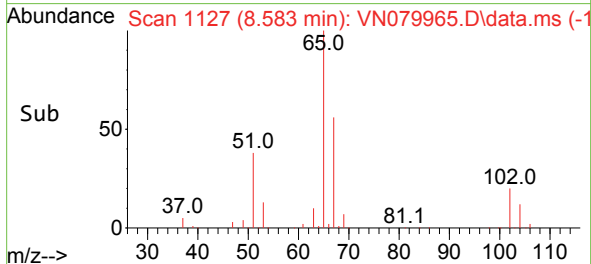
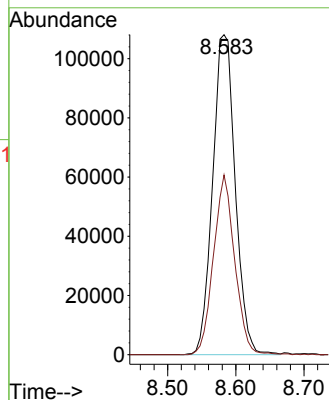
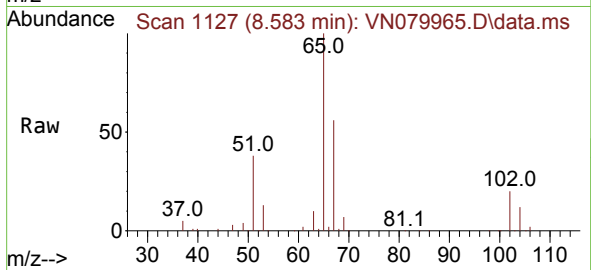
ClientSampleId :

Tgt Ion: 65 Resp: 249927

Ion Ratio Lower Upper

65 100

67 52.7 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: VN079965.D

Acq: 07 Nov 2023 15:22

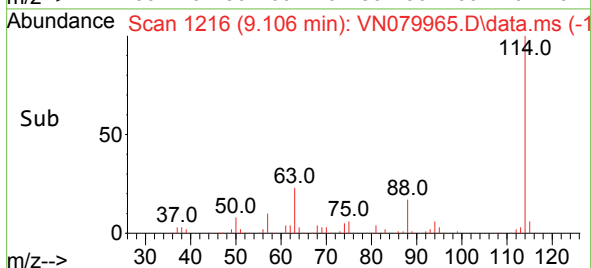
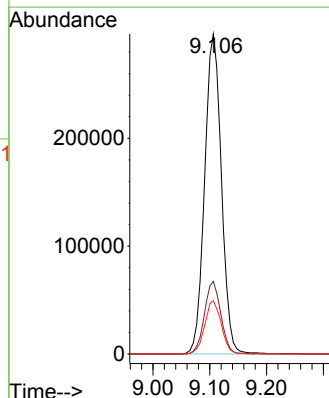
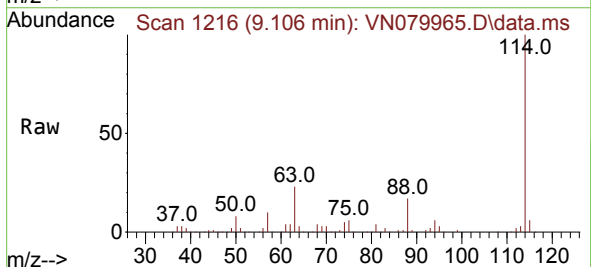
Tgt Ion: 114 Resp: 606583

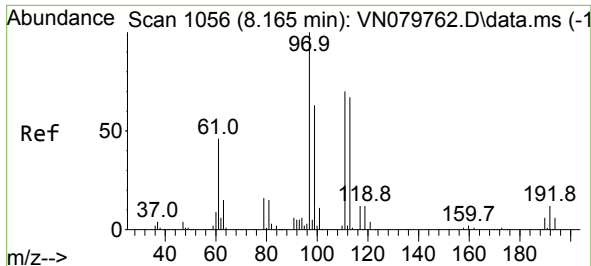
Ion Ratio Lower Upper

114 100

63 22.7 0.0 36.4

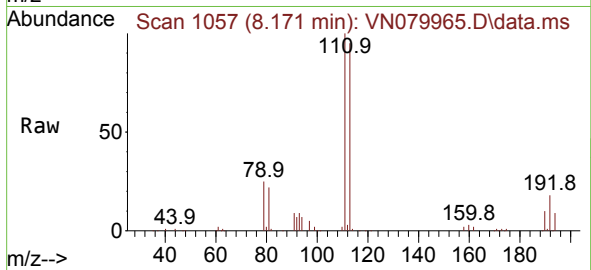
88 16.6 0.0 30.6



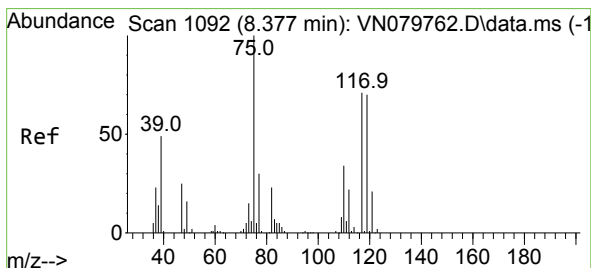
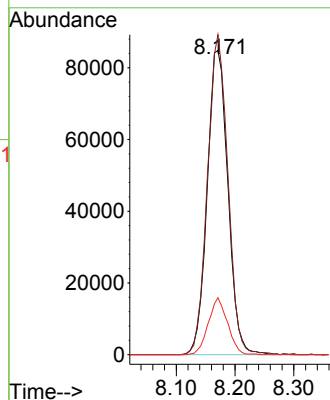
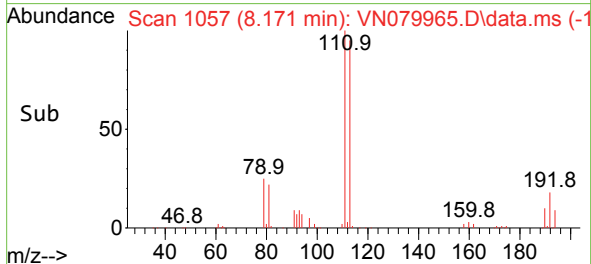


#35
Dibromofluoromethane
Concen: 48.508 ug/l
RT: 8.171 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22

Instrument :
MSVOA_N
ClientSampleId :

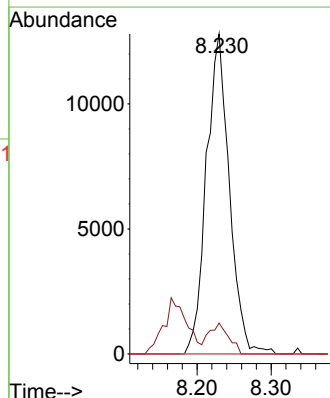
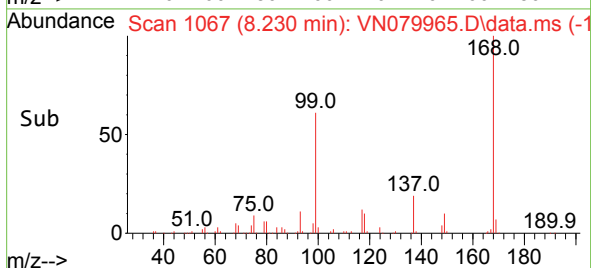
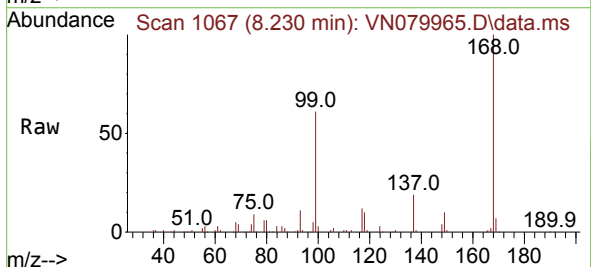


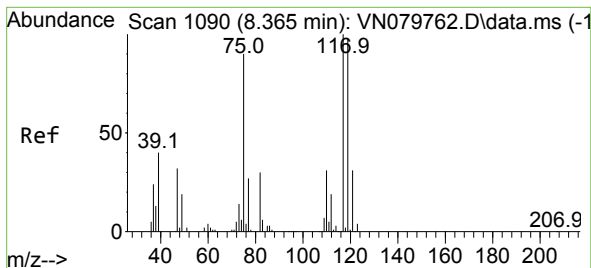
Tgt Ion:113 Resp: 208251
Ion Ratio Lower Upper
113 100
111 103.3 82.6 123.8
192 17.4 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.498 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22

Tgt Ion: 75 Resp: 27570
Ion Ratio Lower Upper
75 100
110 8.3 19.1 57.3#
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.796 ug/l

RT: 8.230 min Scan# 1107

Delta R.T. -0.129 min

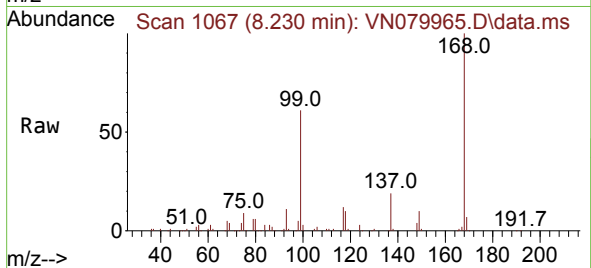
Lab File: VN079965.D

Acq: 07 Nov 2023 15:22

Instrument :

MSVOA_N

ClientSampleId :



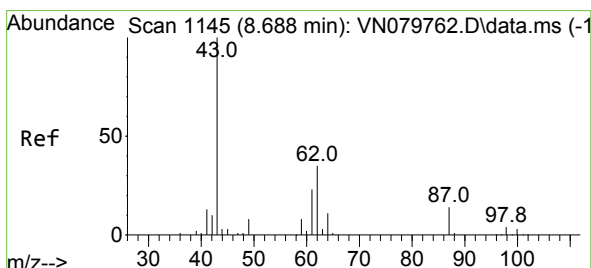
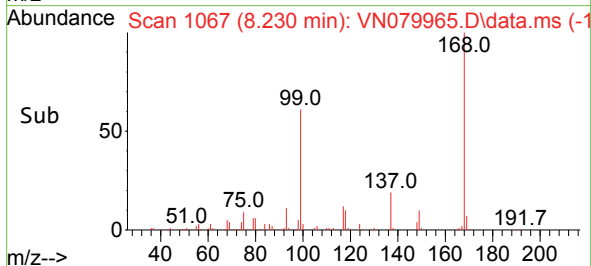
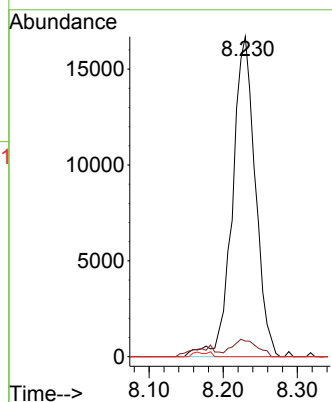
Tgt Ion:117 Resp: 35806

Ion Ratio Lower Upper

117 100

119 4.9 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 0.731 ug/l

RT: 8.718 min Scan# 1150

Delta R.T. 0.030 min

Lab File: VN079965.D

Acq: 07 Nov 2023 15:22

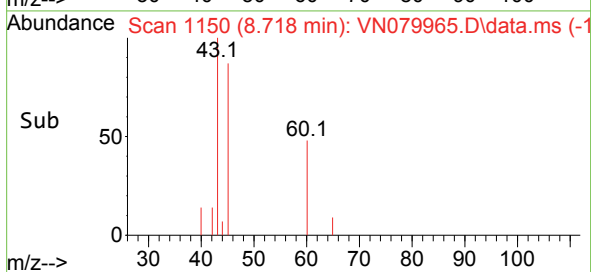
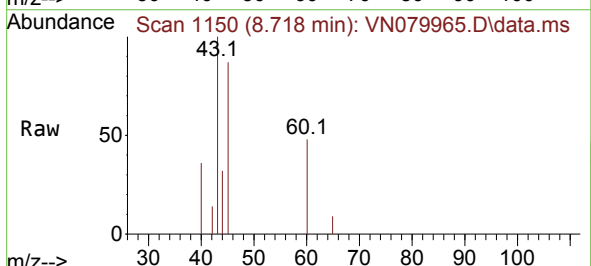
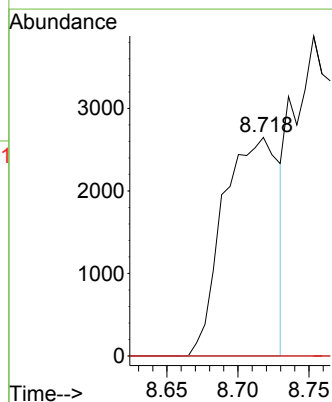
Tgt Ion: 43 Resp: 7203

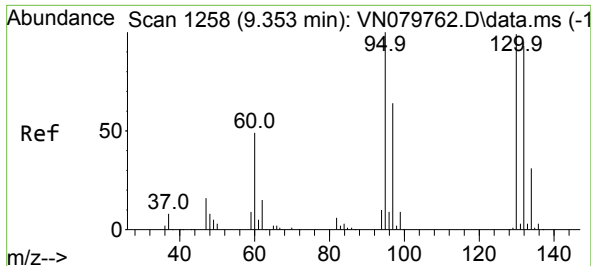
Ion Ratio Lower Upper

43 100

61 0.0 24.7 37.1#

87 0.0 14.6 21.8#

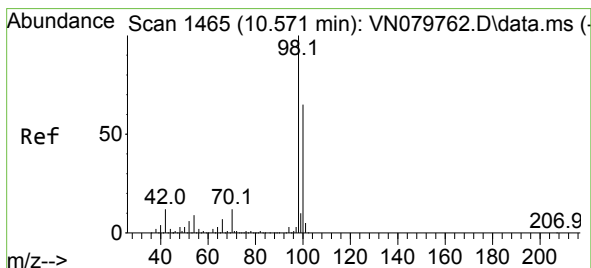
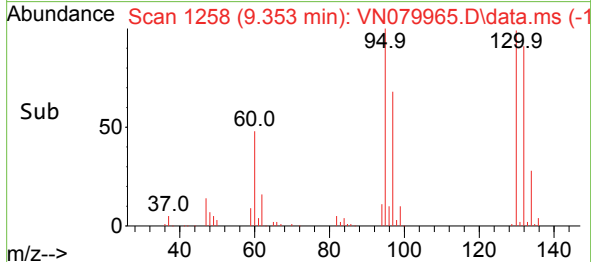
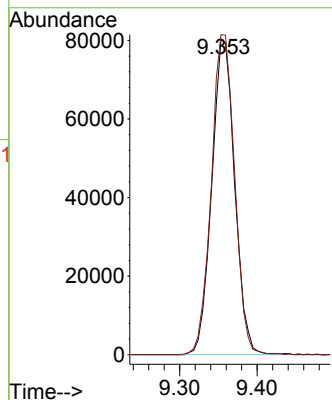
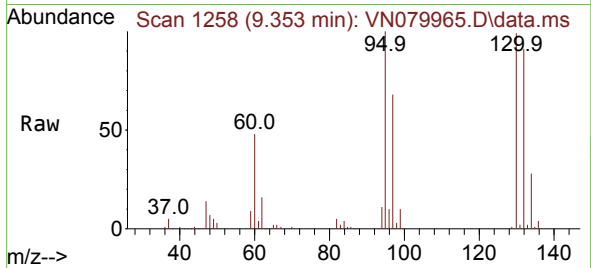




#44
Trichloroethene
Concen: 36.152 ug/l
RT: 9.353 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22

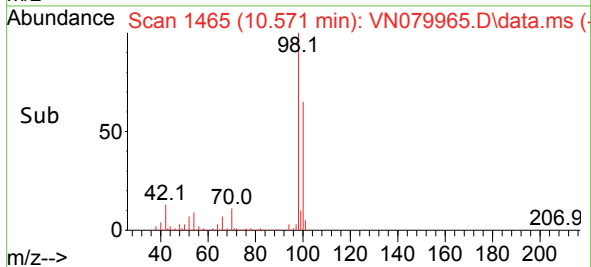
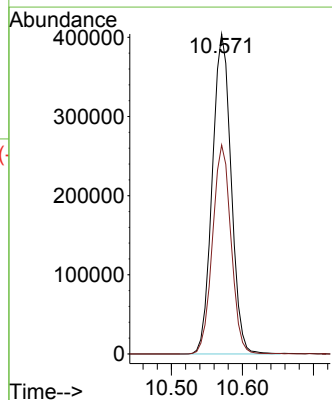
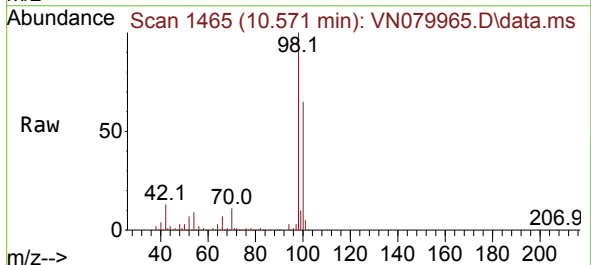
Instrument :
MSVOA_N
ClientSampleId :

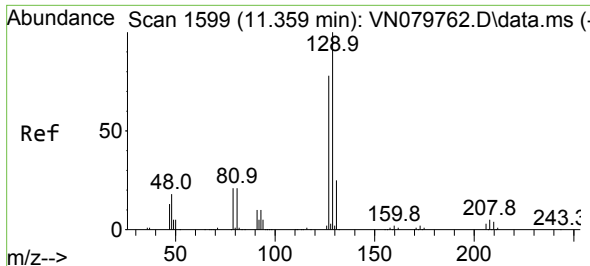
Tgt Ion:130 Resp: 164703
Ion Ratio Lower Upper
130 100
95 101.5 0.0 204.6



#50
Toluene-d8
Concen: 46.969 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22

Tgt Ion: 98 Resp: 742322
Ion Ratio Lower Upper
98 100
100 64.2 52.0 78.0

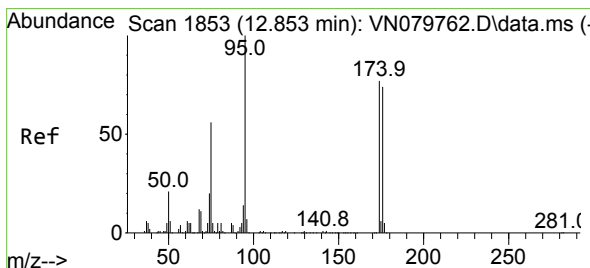
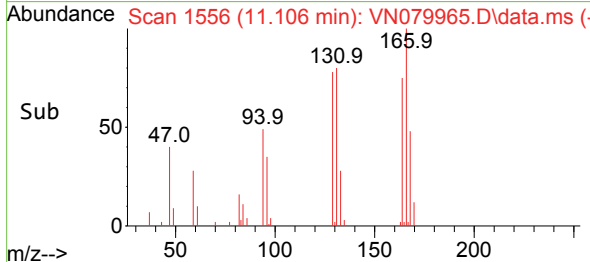
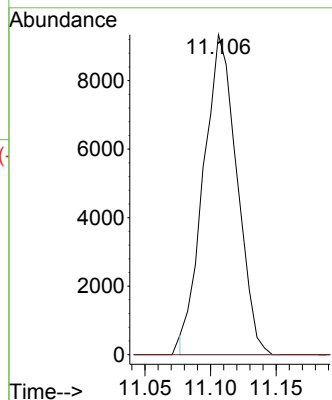
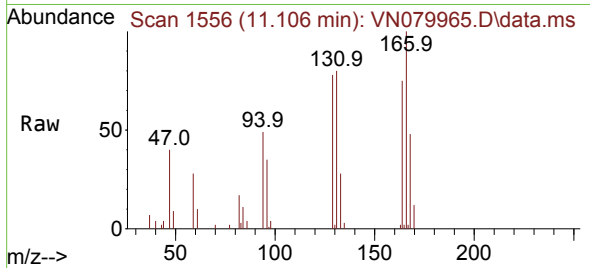




#60
Dibromochloromethane
Concen: 3.525 ug/l
RT: 11.106 min Scan# 11
Delta R.T. -0.259 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22

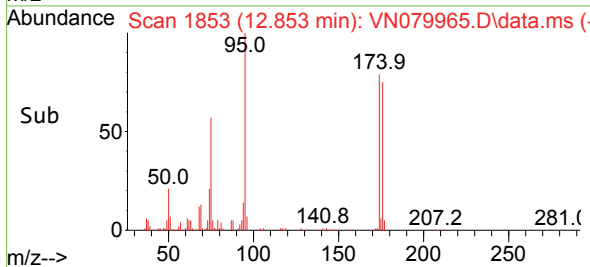
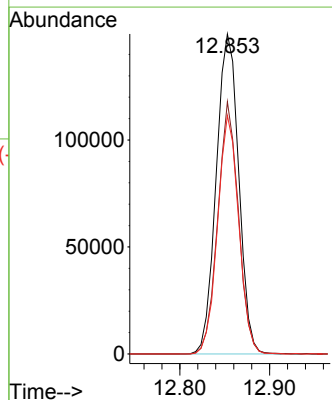
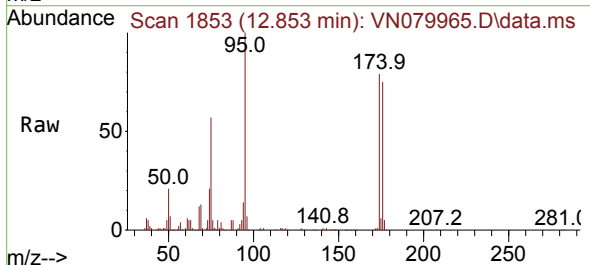
Instrument :
MSVOA_N
ClientSampleId :

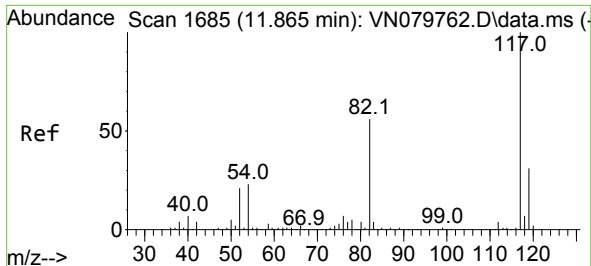
Tgt Ion:129 Resp: 16517
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 49.567 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22

Tgt Ion: 95 Resp: 259813
Ion Ratio Lower Upper
95 100
174 72.5 0.0 143.8
176 70.2 0.0 135.8

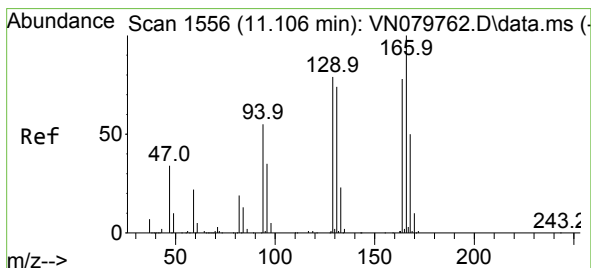
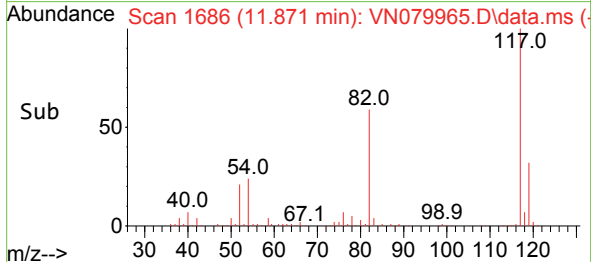
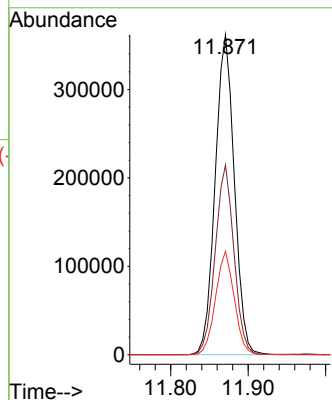
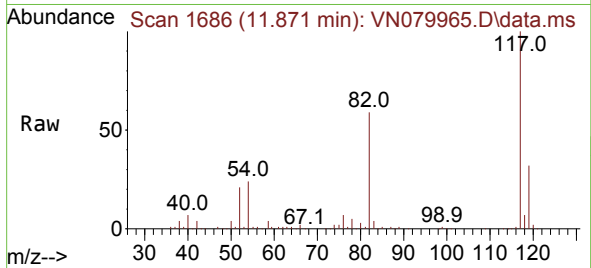




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22

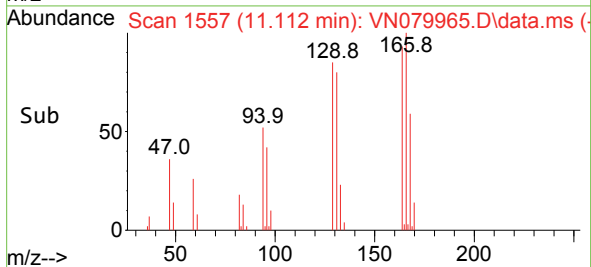
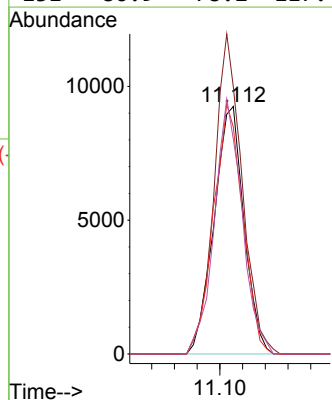
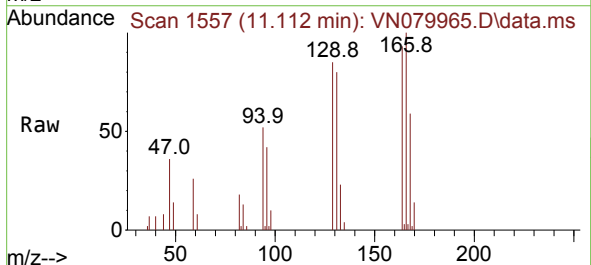
Instrument :
MSVOA_N
ClientSampleId :

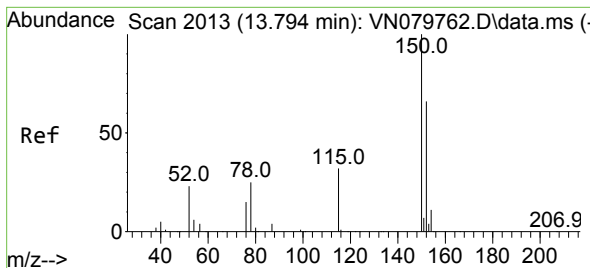
Tgt Ion:117 Resp: 621200
Ion Ratio Lower Upper
117 100
82 59.2 44.0 66.0
119 32.3 25.6 38.4



#64
Tetrachloroethene
Concen: 4.199 ug/l
RT: 11.112 min Scan# 1557
Delta R.T. 0.006 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22

Tgt Ion:164 Resp: 16893
Ion Ratio Lower Upper
164 100
166 107.9 101.4 152.0
129 91.7 82.4 123.6
131 86.9 78.2 117.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.000 min

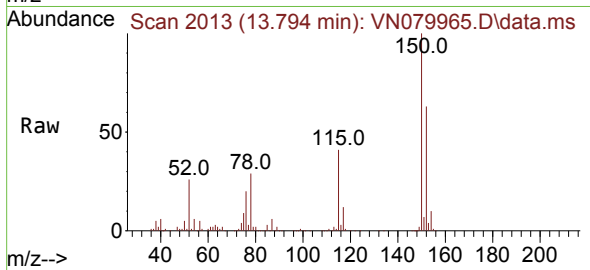
Lab File: VN079965.D

Acq: 07 Nov 2023 15:22

Instrument :

MSVOA_N

ClientSampleId :



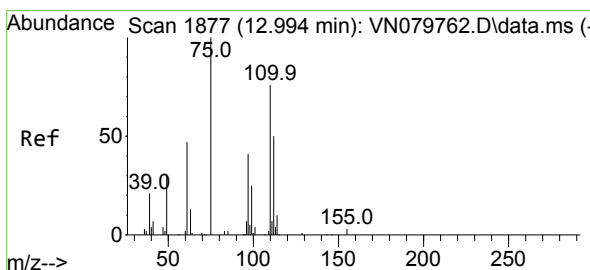
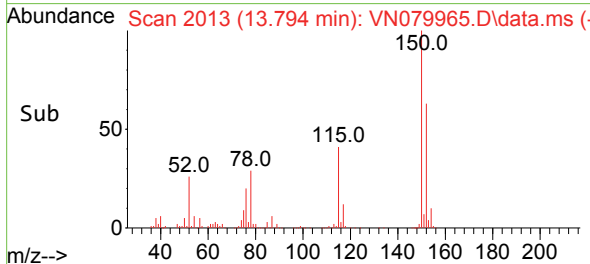
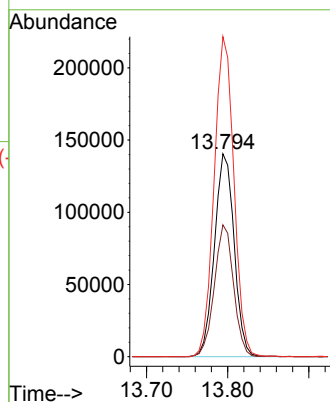
Tgt Ion:152 Resp: 237015

Ion Ratio Lower Upper

152 100

115 63.4 32.3 96.8

150 158.4 0.0 355.8



#76

1,2,3-Trichloropropane

Concen: 25.886 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN079965.D

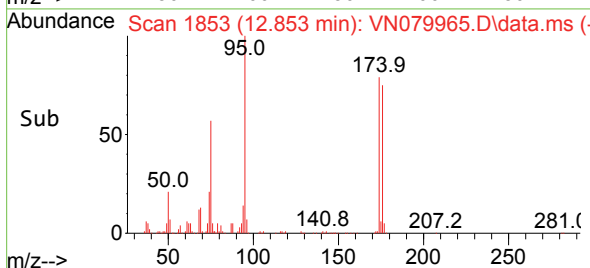
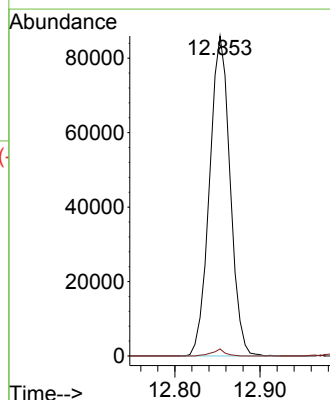
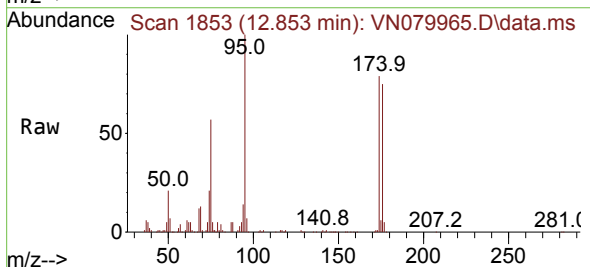
Acq: 07 Nov 2023 15:22

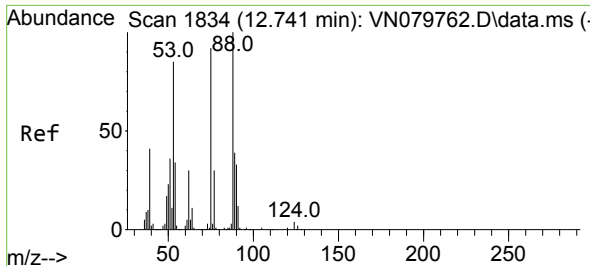
Tgt Ion: 75 Resp: 144040

Ion Ratio Lower Upper

75 100

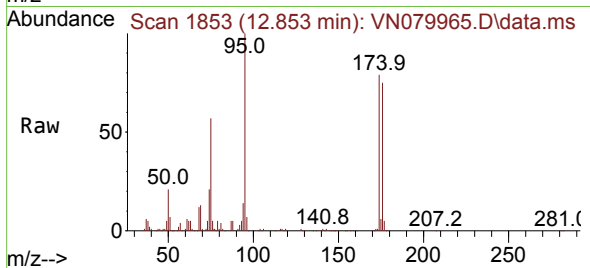
77 1.4 84.5 253.5#



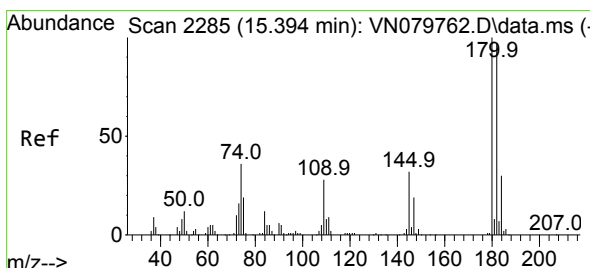
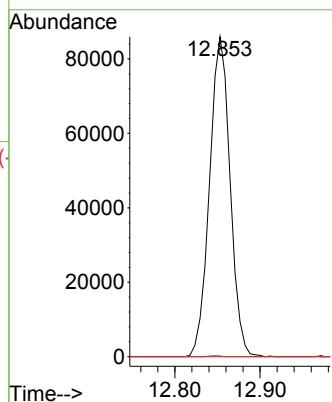
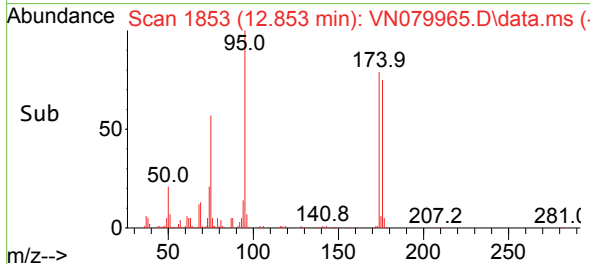


#81
trans-1,4-Dichloro-2-butene
Concen: 70.430 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22

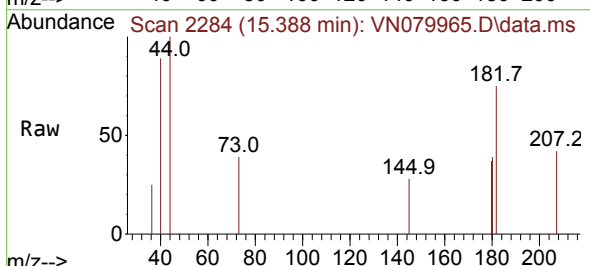
Instrument :
MSVOA_N
ClientSampleId :



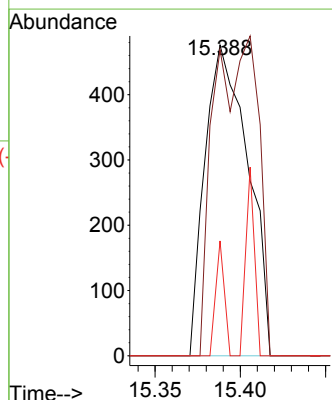
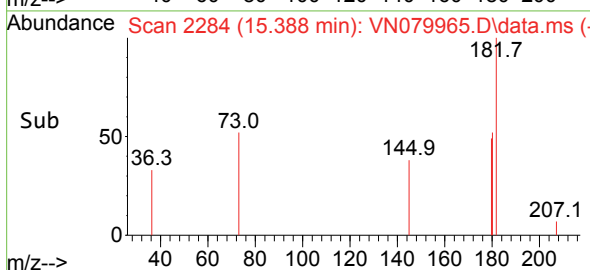
Tgt Ion: 75 Resp: 144040
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#

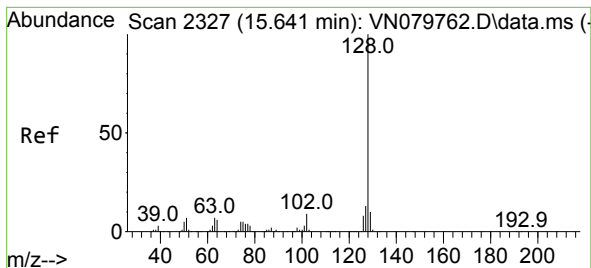


#93
1,2,4-Trichlorobenzene
Concen: 0.227 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. -0.006 min
Lab File: VN079965.D
Acq: 07 Nov 2023 15:22



Tgt Ion:180 Resp: 835
Ion Ratio Lower Upper
180 100
182 0.0 46.1 138.2#
145 7.4 16.6 49.8#





#95

Naphthalene

Concen: 0.390 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.006 min

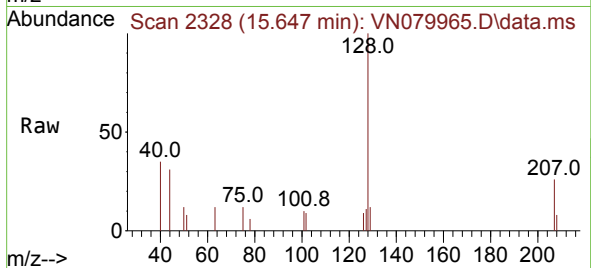
Lab File: VN079965.D

Acq: 07 Nov 2023 15:22

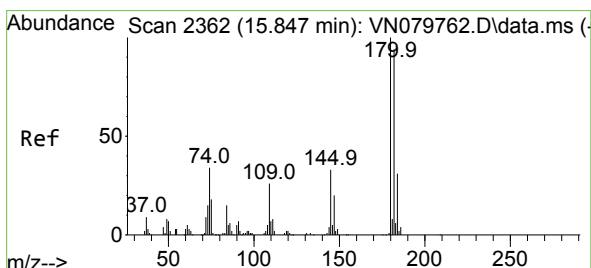
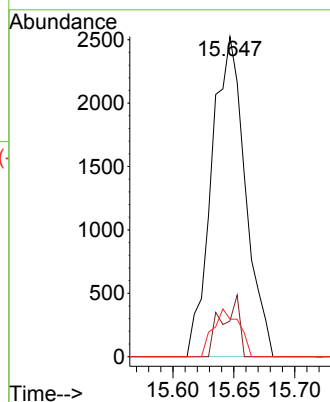
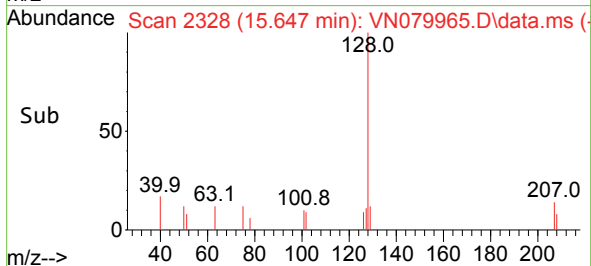
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	128	Resp:	4858
Ion Ratio	Lower	Upper	
128	100		
127	9.9	10.0	15.0#
129	11.5	8.7	13.1



#96

1,2,3-Trichlorobenzene

Concen: 0.203 ug/l

RT: 15.853 min Scan# 2363

Delta R.T. 0.012 min

Lab File: VN079965.D

Acq: 07 Nov 2023 15:22

Tgt Ion:	180	Resp:	730
Ion Ratio	Lower	Upper	
180	100		
182	92.6	46.2	138.6
145	23.6	17.5	52.6

