

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030923\
 Data File : VN076895.D
 Acq On : 09 Mar 2023 12:03
 Operator : JC\MD
 Sample : 01852-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RW5-IDWGW-20230308

Quant Time: Mar 10 01:30:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 09 04:16:54 2023
 Response via : Initial Calibration

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

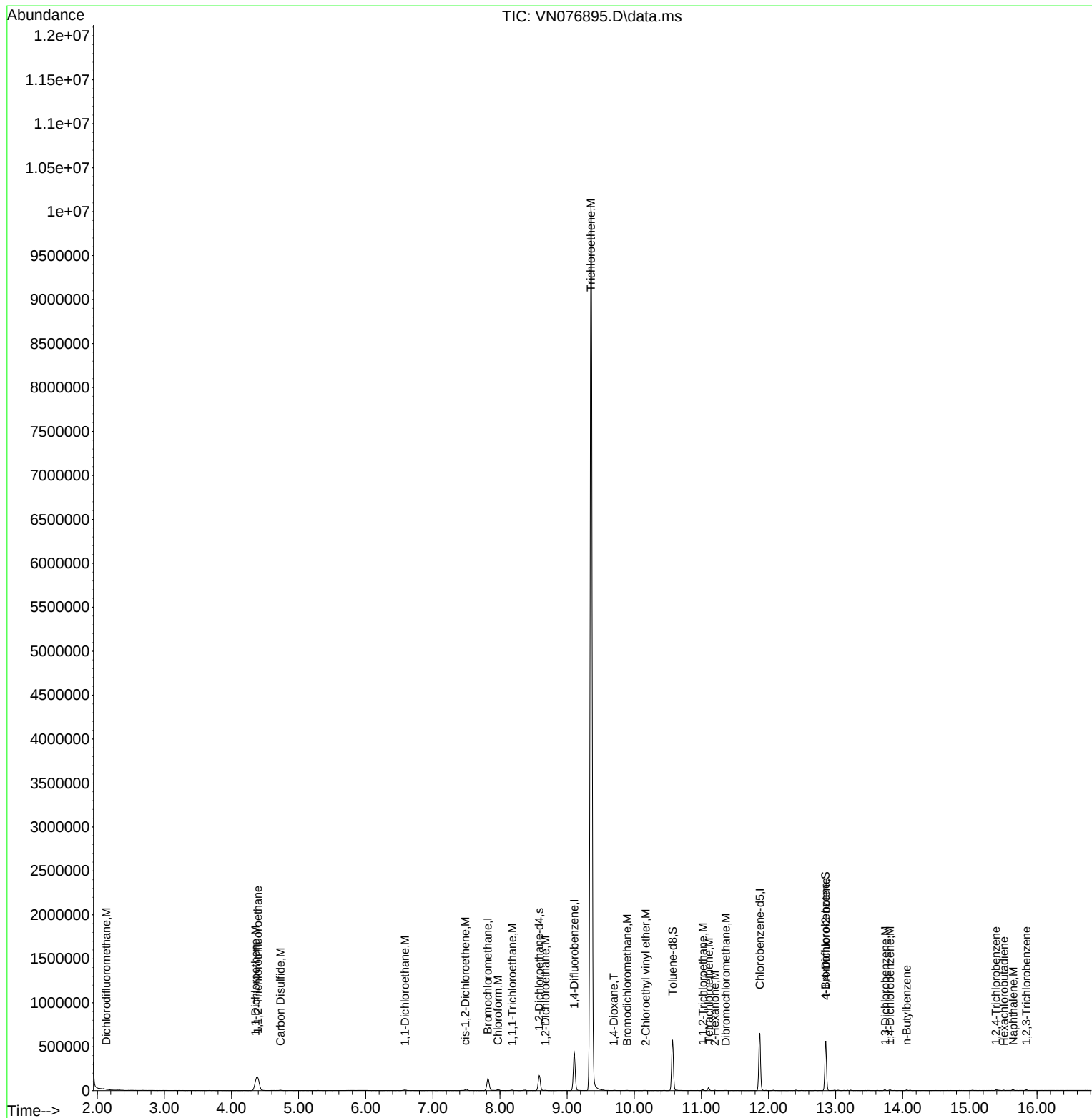
Internal Standards						
1) Bromochloromethane	7.819	128	48594	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	356257	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	392404	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	145246	32.519	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	108.400%
60) 4-Bromofluorobenzene	12.848	95	208288	28.046	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.500%
63) Toluene-d8	10.571	98	410309	29.729	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.100%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	1439	0.231	ug/l	78
9) 1,1,2-Trichlorotrifluo...	4.395	101	95000	17.319	ug/l	84
10) 1,1-Dichloroethene	4.360	96	46012	8.642	ug/l	92
16) Carbon Disulfide	4.731	76	3653	0.247	ug/l #	90
21) 1,1-Dichloroethane	6.583	63	9092	0.848	ug/l #	90
22) cis-1,2-Dichloroethene	7.483	96	4276	0.665	ug/l	94
25) Chloroform	7.972	83	11737	1.066	ug/l	89
32) 1,1,1-Trichloroethane	8.183	97	5037	0.515	ug/l #	45
36) 1,2-Dichloroethane	8.677	62	1905	0.221	ug/l	95
37) Trichloroethene	9.354	130	3680980	580.551	ug/l	91
41) Bromodichloromethane	9.895	83	2197	0.255	ug/l #	74
45) 1,4-Dioxane	9.695	88	1357	12.881	ug/l #	48
50) 1,1,2-Trichloroethane	11.024	97	4125	0.669	ug/l	87
53) Dibromochloromethane	11.366	129	1746	0.277	ug/l	98
55) 2-Chloroethyl vinyl ether	10.172	63	820	0.257	ug/l #	60
59) 2-Hexanone	11.201	43	2491	0.442	ug/l	95
61) Tetrachloroethene	11.113	164	6771	1.093	ug/l	94
77) t-1,4-Dichloro-2-butene	12.854	75	106366	44.598	ug/l #	9
83) 1,3-Dichlorobenzene	13.742	146	3329	0.282	ug/l	92
84) 1,4-Dichlorobenzene	13.812	146	3916	0.342	ug/l	96
85) n-Butylbenzene	14.059	91	4768	0.238	ug/l	92
89) 1,2,4-Trichlorobenzene	15.389	180	3989	0.636	ug/l	90
90) Hexachlorobutadiene	15.506	225	1218	0.368	ug/l	71
91) Naphthalene	15.648	128	9998	0.502	ug/l #	95
92) 1,2,3-Trichlorobenzene	15.842	180	3442	0.547	ug/l	93

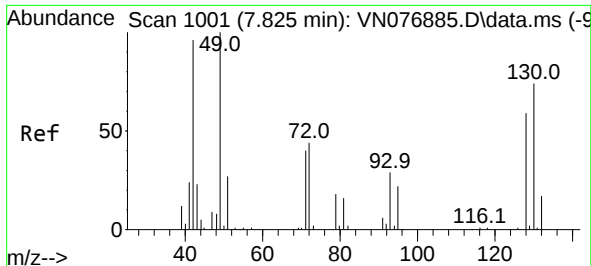
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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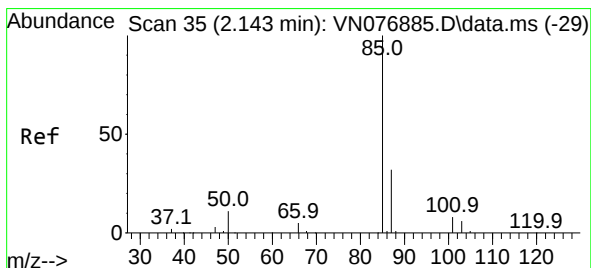
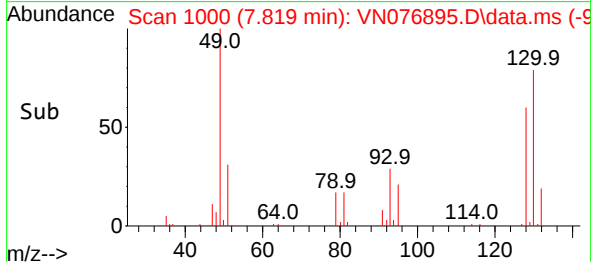
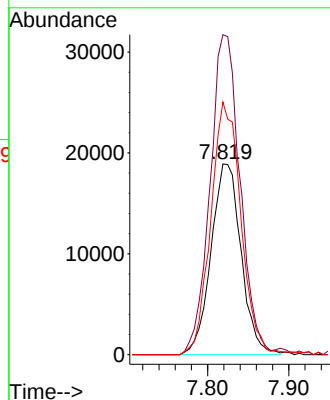
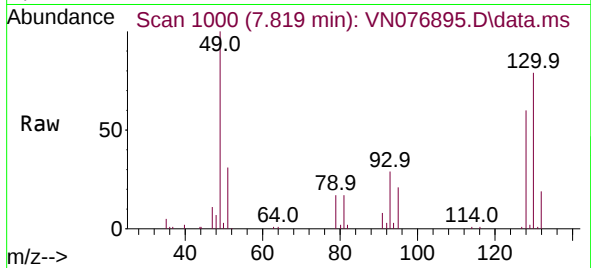




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.819 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

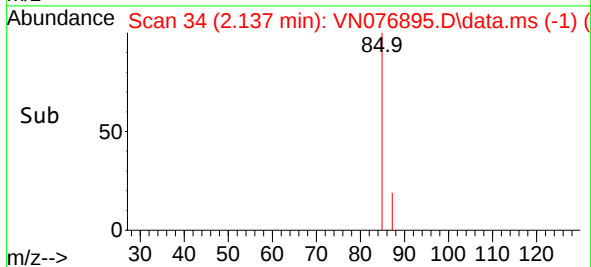
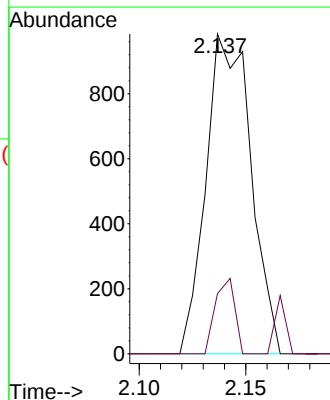
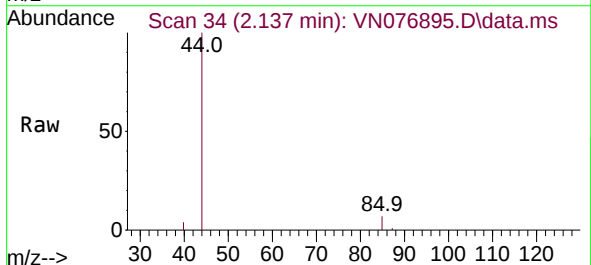
Instrument :
MSVOA_N
ClientSampleId :
RW5-IDWGW-20230308

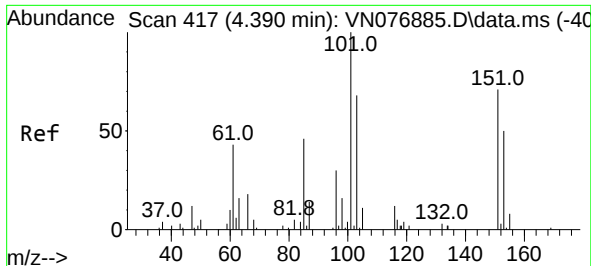
Tgt Ion:	128	Resp:	48594
Ion	Ratio	Lower	Upper
128	100		
49	167.4	0.0	461.8
130	131.9	0.0	295.3



#2
Dichlorodifluoromethane
Concen: 0.231 ug/l
RT: 2.137 min Scan# 34
Delta R.T. -0.006 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

Tgt Ion:	85	Resp:	1439
Ion	Ratio	Lower	Upper
85	100		
87	18.8	15.4	46.1

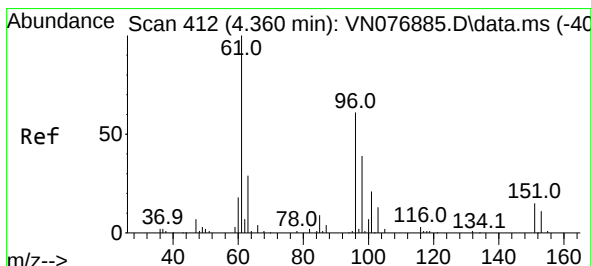
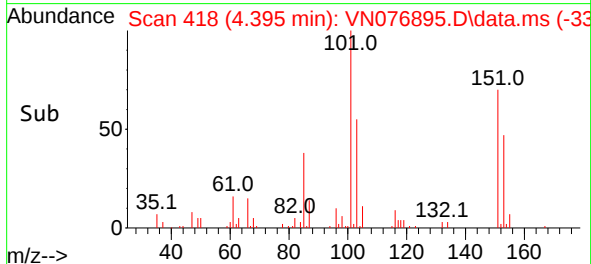
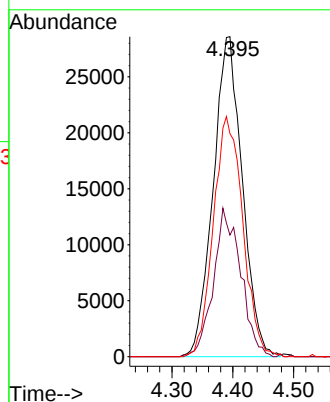
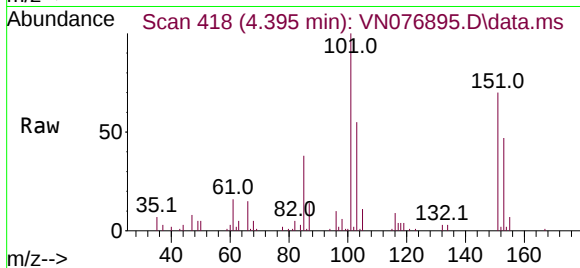




#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.319 ug/l
RT: 4.395 min Scan# 417
Delta R.T. 0.005 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

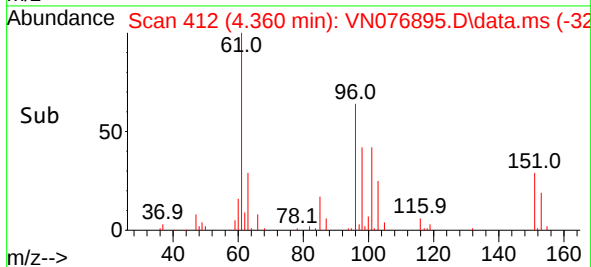
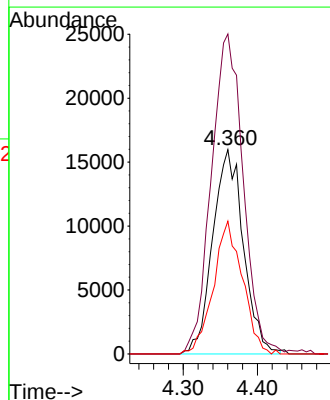
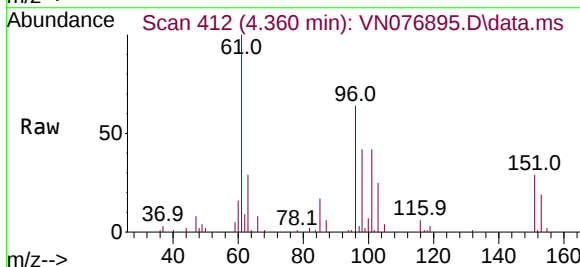
Instrument :
MSVOA_N
ClientSampleId :
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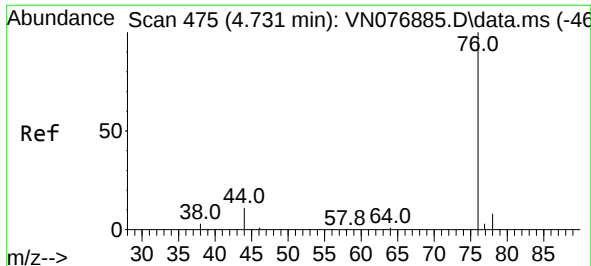
Tgt Ion:101 Resp: 95000
Ion Ratio Lower Upper
101 100
85 26.7 0.0 95.2
151 75.8 0.0 142.2



#10
1,1-Dichloroethene
Concen: 8.642 ug/l
RT: 4.360 min Scan# 412
Delta R.T. 0.006 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

Tgt Ion: 96 Resp: 46012
Ion Ratio Lower Upper
96 100
61 156.6 137.1 205.7
98 65.0 53.2 79.8

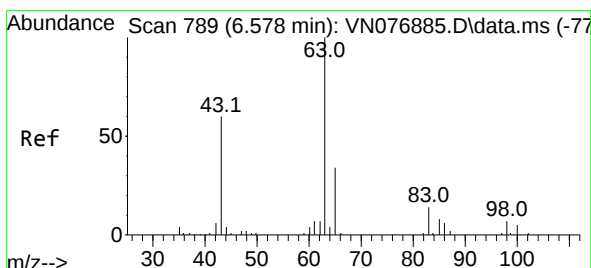
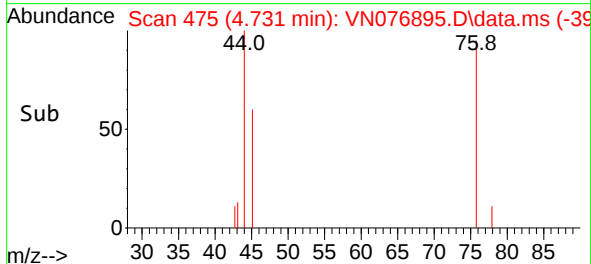
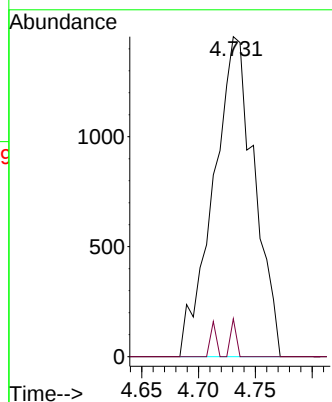
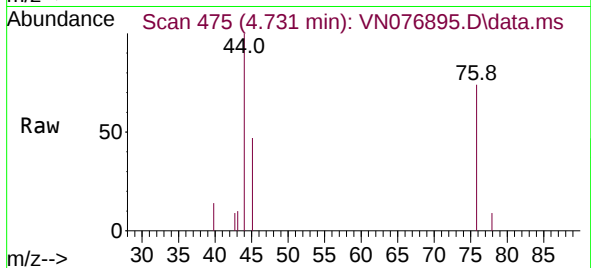




#16
Carbon Disulfide
Concen: 0.247 ug/l
RT: 4.731 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

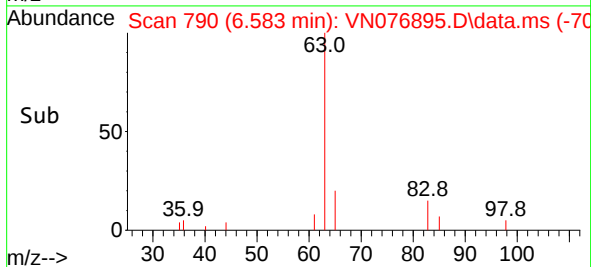
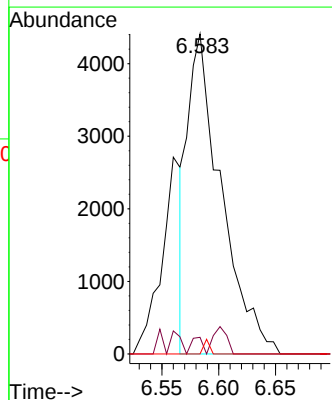
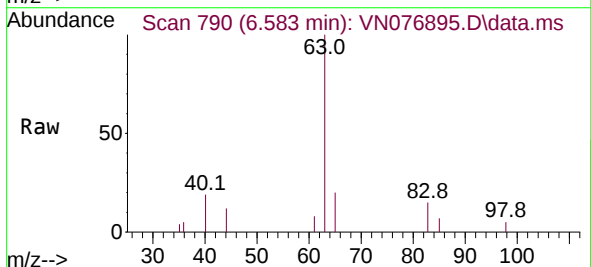
Instrument :
MSVOA_N
ClientSampleId :
RW5-IDWGW-20230308

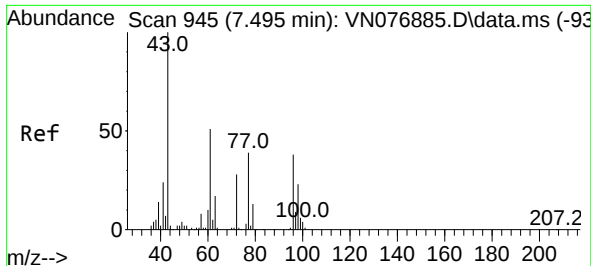
Tgt Ion: 76 Resp: 3653
Ion Ratio Lower Upper
76 100
78 11.8 6.6 9.8#



#21
1,1-Dichloroethane
Concen: 0.848 ug/l
RT: 6.583 min Scan# 790
Delta R.T. 0.005 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

Tgt Ion: 63 Resp: 9092
Ion Ratio Lower Upper
63 100
98 5.2 3.6 10.9
100 0.0 2.6 7.8#

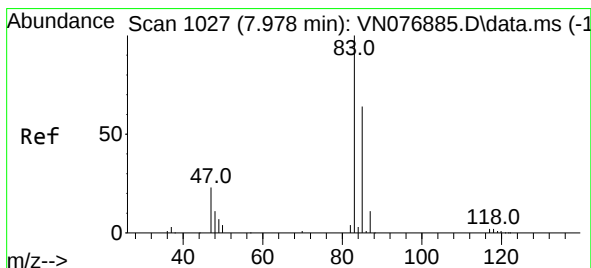
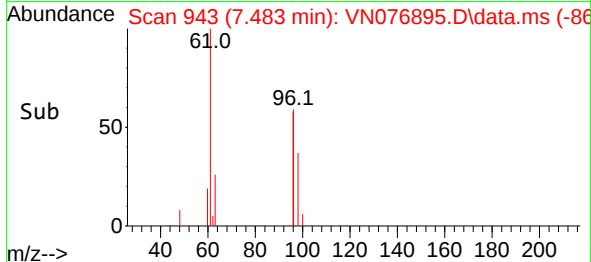
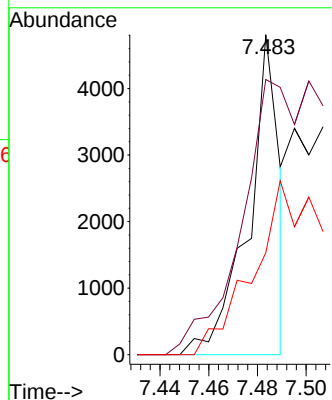
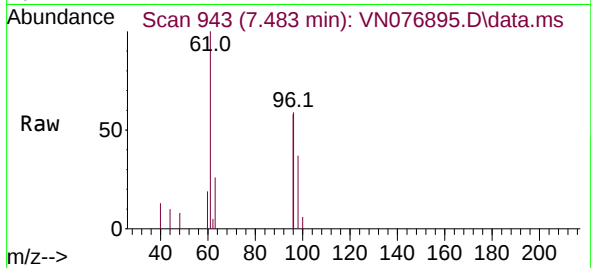




#22
cis-1,2-Dichloroethene
Concen: 0.665 ug/l
RT: 7.483 min Scan# 945
Delta R.T. -0.012 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

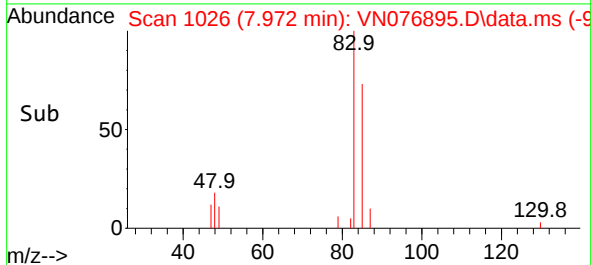
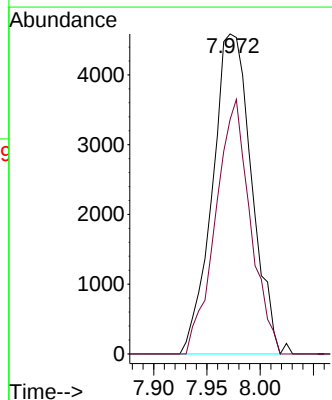
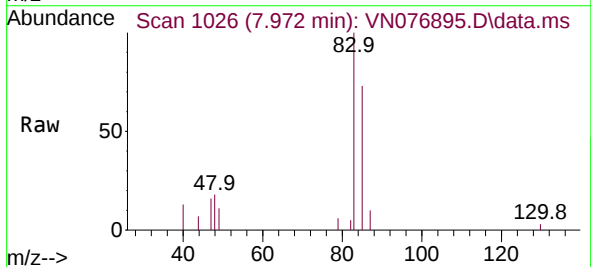
Instrument :
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ClientSampleId :
RW5-IDWGW-20230308

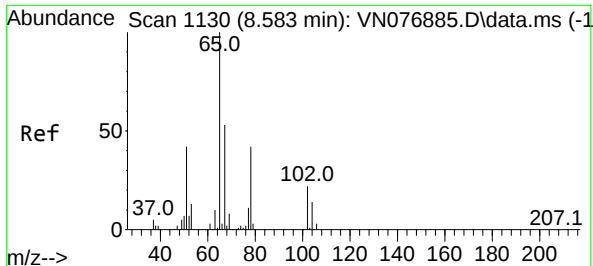
Tgt Ion: 96 Resp: 4276
Ion Ratio Lower Upper
96 100
61 148.6 121.0 181.4
98 74.5 50.1 75.1



#25
Chloroform
Concen: 1.066 ug/l
RT: 7.972 min Scan# 1026
Delta R.T. -0.000 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

Tgt Ion: 83 Resp: 11737
Ion Ratio Lower Upper
83 100
85 73.3 51.8 77.6





#27

1,2-Dichloroethane-d4

Concen: 32.519 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN076895.D

Acq: 09 Mar 2023 12:03

Instrument :

MSVOA_N

ClientSampleId :

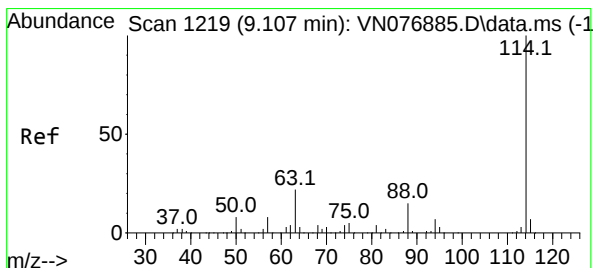
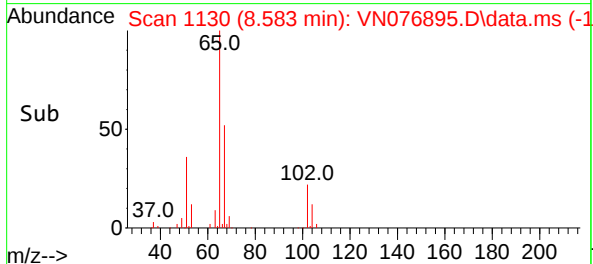
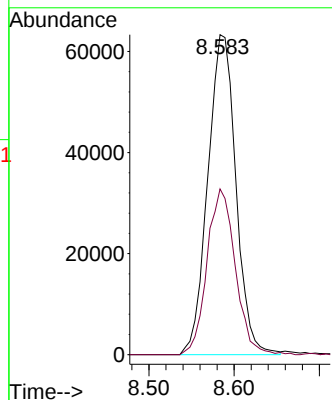
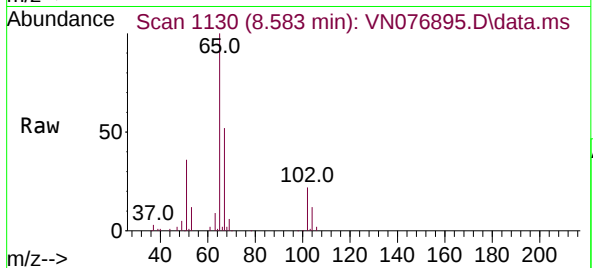
RW5-IDWGW-20230308

Tgt Ion: 65 Resp: 145246

Ion Ratio Lower Upper

65 100

67 52.0 40.9 61.3



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. -0.000 min

Lab File: VN076895.D

Acq: 09 Mar 2023 12:03

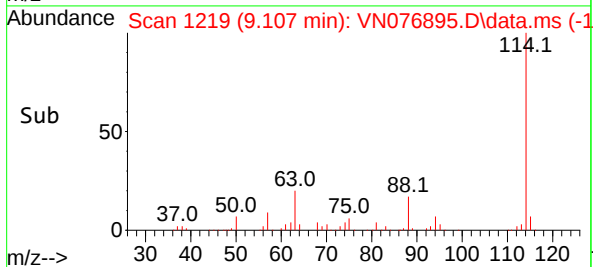
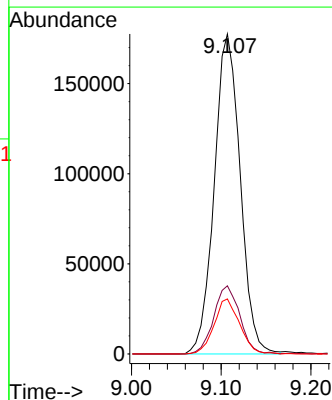
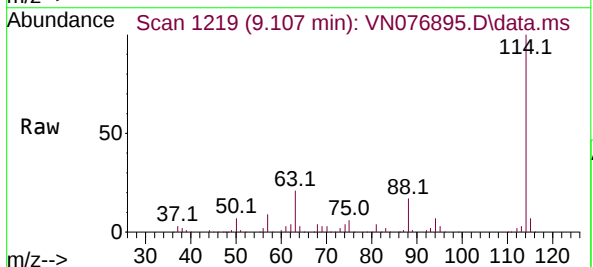
Tgt Ion: 114 Resp: 356257

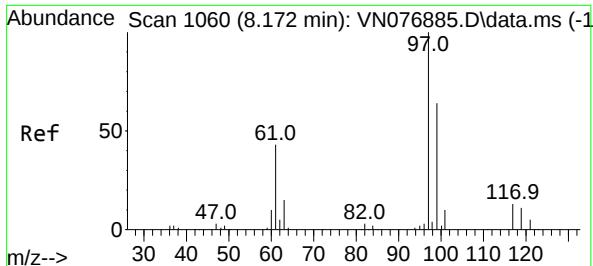
Ion Ratio Lower Upper

114 100

63 21.4 17.0 25.4

88 16.8 11.6 17.4





#32

1,1,1-Trichloroethane

Concen: 0.515 ug/l

RT: 8.183 min Scan# 1062

Delta R.T. 0.005 min

Lab File: VN076895.D

Acq: 09 Mar 2023 12:03

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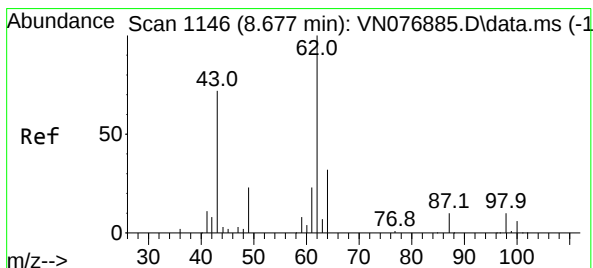
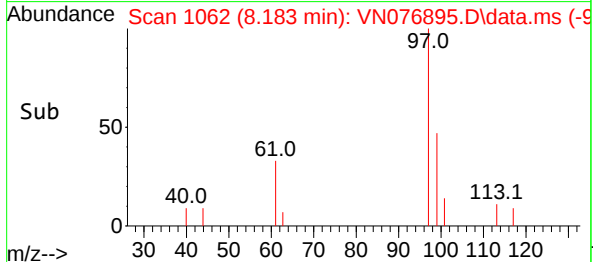
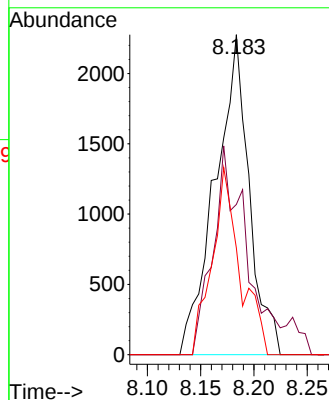
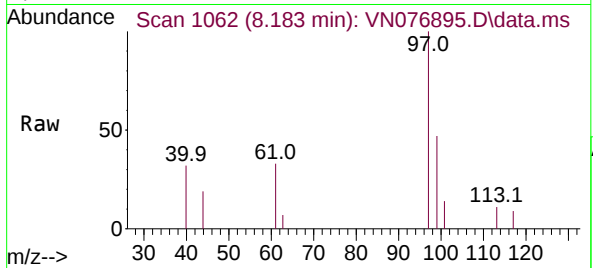
Tgt Ion: 97 Resp: 5037

Ion Ratio Lower Upper

97 100

99 24.7 51.8 77.8#

61 7.9 39.3 58.9#



#36

1,2-Dichloroethane

Concen: 0.221 ug/l

RT: 8.677 min Scan# 1146

Delta R.T. -0.001 min

Lab File: VN076895.D

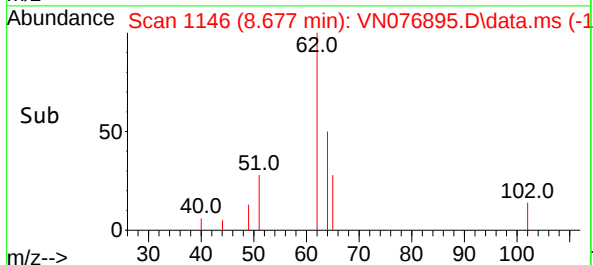
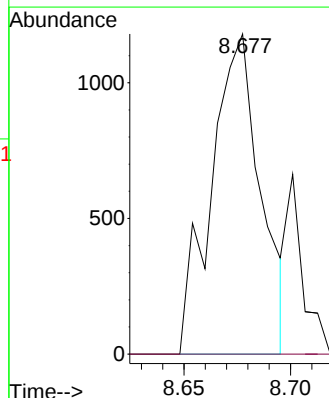
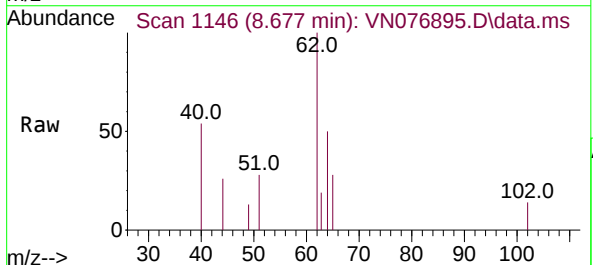
Acq: 09 Mar 2023 12:03

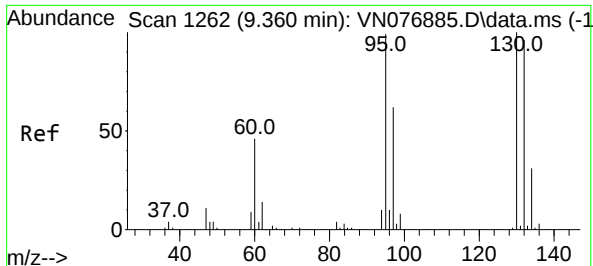
Tgt Ion: 62 Resp: 1905

Ion Ratio Lower Upper

62 100

98 11.0 7.4 11.0





#37

Trichloroethene

Concen: 580.551 ug/l

RT: 9.354 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN076895.D

Acq: 09 Mar 2023 12:03

Instrument :

MSVOA_N

ClientSampleId :

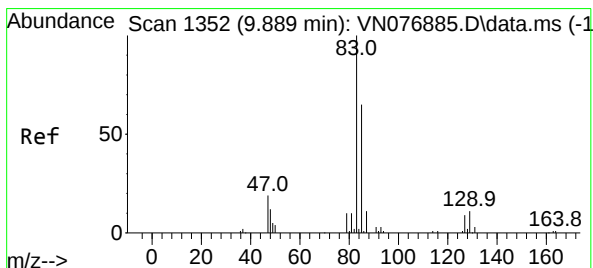
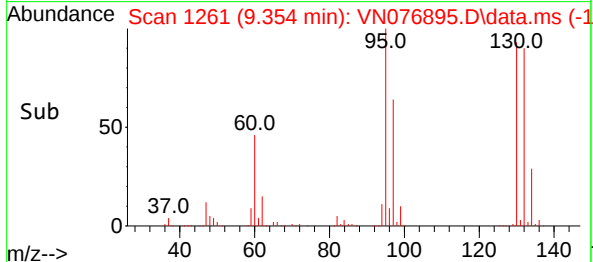
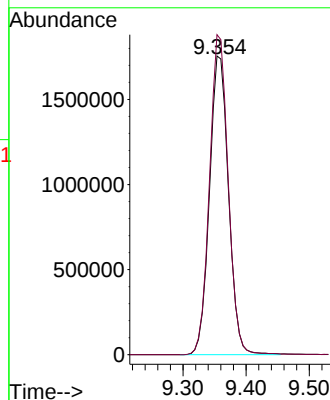
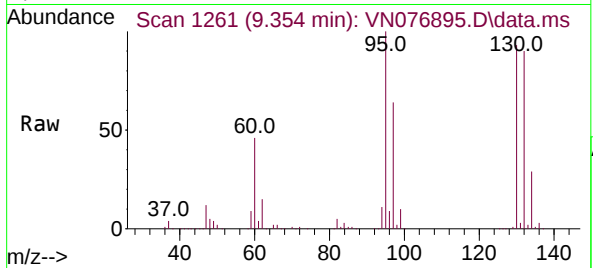
RW5-IDWGW-20230308

Tgt Ion:130 Resp: 3680980

Ion Ratio Lower Upper

130 100

95 107.1 78.7 118.1



#41

Bromodichloromethane

Concen: 0.255 ug/l

RT: 9.895 min Scan# 1353

Delta R.T. 0.006 min

Lab File: VN076895.D

Acq: 09 Mar 2023 12:03

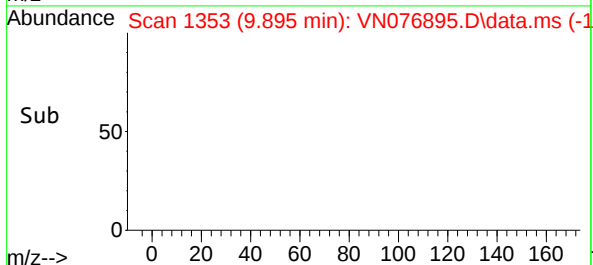
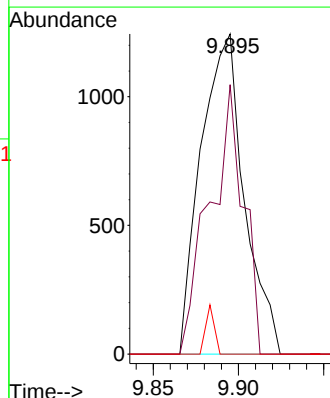
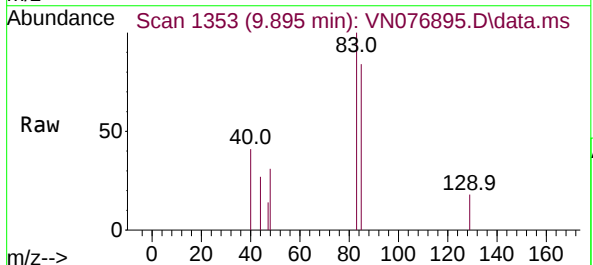
Tgt Ion: 83 Resp: 2197

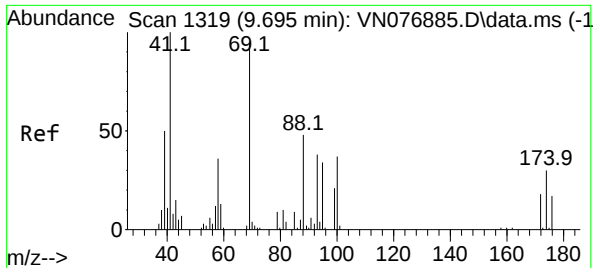
Ion Ratio Lower Upper

83 100

85 84.2 51.0 76.4#

127 0.0 6.2 9.2#

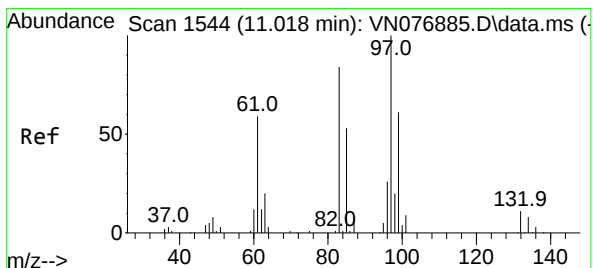
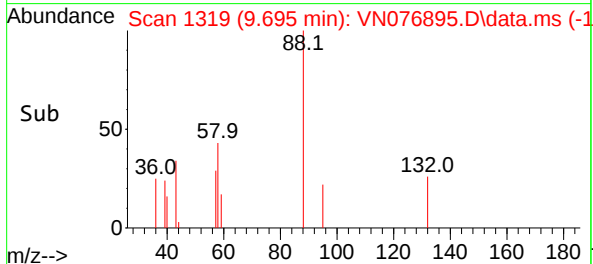
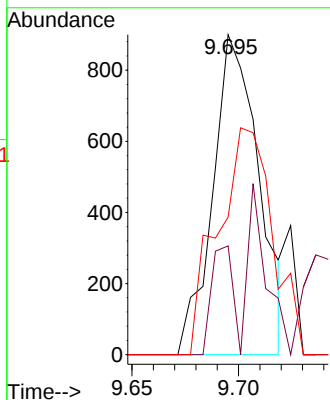
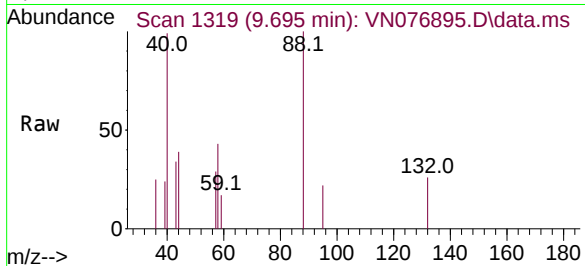




#45
1,4-Dioxane
Concen: 12.881 ug/l
RT: 9.695 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

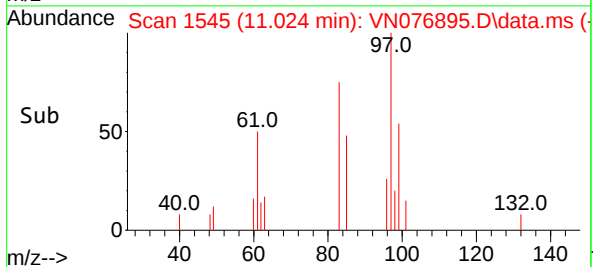
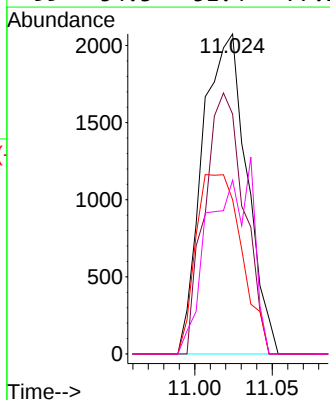
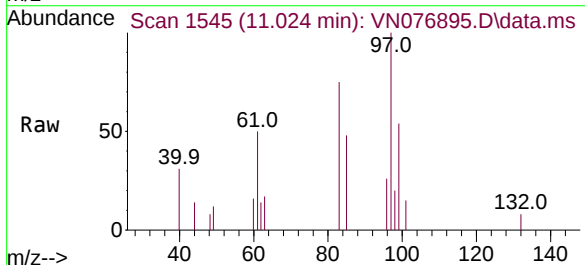
Instrument :
MSVOA_N
ClientSampleId :
RW5-IDWGW-20230308

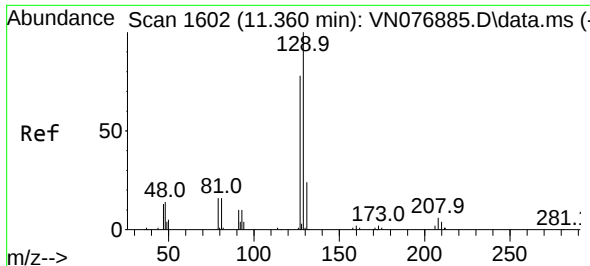
Tgt Ion: 88 Resp: 1357
Ion Ratio Lower Upper
88 100
43 15.5 26.0 39.0#
58 17.2 54.3 81.5#



#50
1,1,2-Trichloroethane
Concen: 0.669 ug/l
RT: 11.024 min Scan# 1545
Delta R.T. 0.005 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

Tgt Ion: 97 Resp: 4125
Ion Ratio Lower Upper
97 100
83 74.9 71.0 106.4
85 48.2 45.5 68.3
99 54.3 51.4 77.2

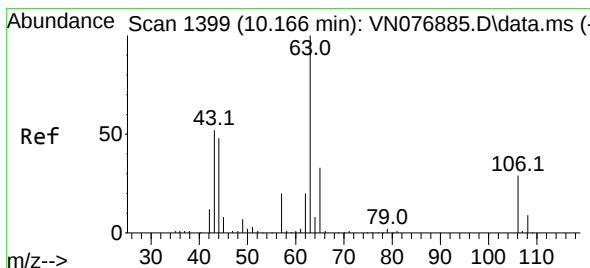
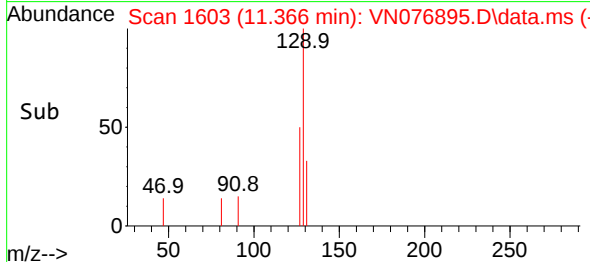
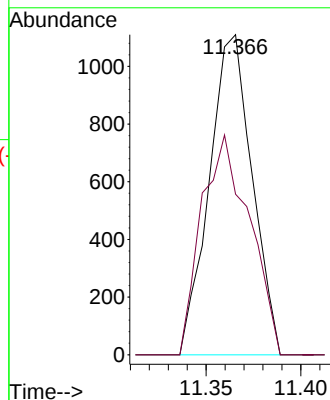
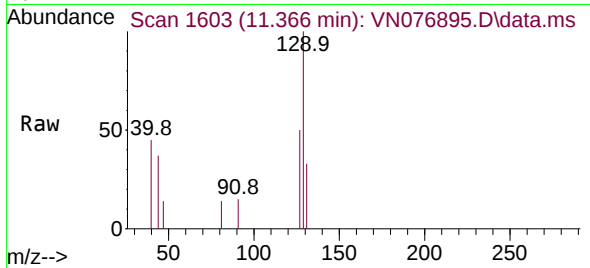




#53
Dibromochloromethane
Concen: 0.277 ug/l
RT: 11.366 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

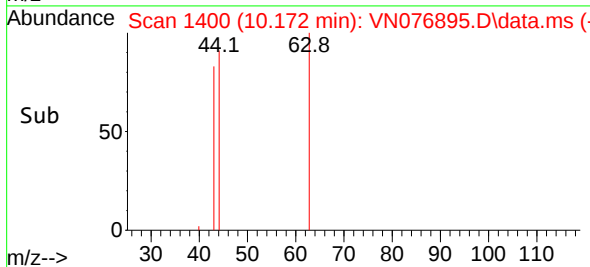
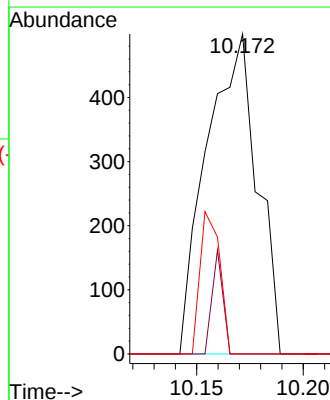
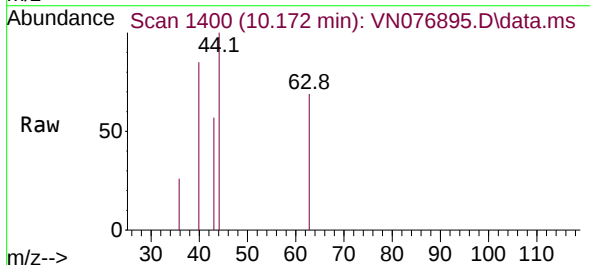
Instrument :
MSVOA_N
ClientSampleId :
RW5-IDWGW-20230308

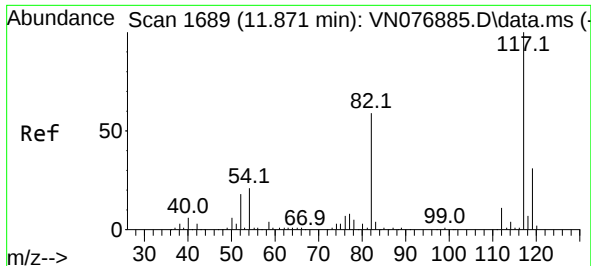
Tgt Ion:129 Resp: 1746
Ion Ratio Lower Upper
129 100
127 77.0 39.4 118.1



#55
2-Chloroethyl vinyl ether
Concen: 0.257 ug/l
RT: 10.172 min Scan# 1400
Delta R.T. 0.011 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

Tgt Ion: 63 Resp: 820
Ion Ratio Lower Upper
63 100
65 0.0 26.3 39.5#
106 17.4 21.6 32.4#

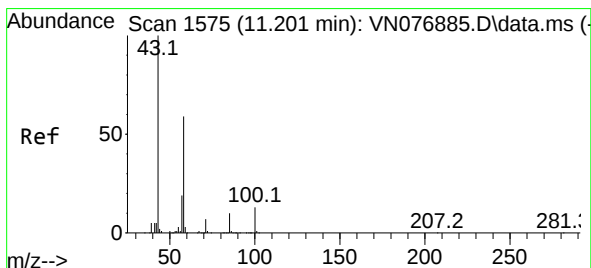
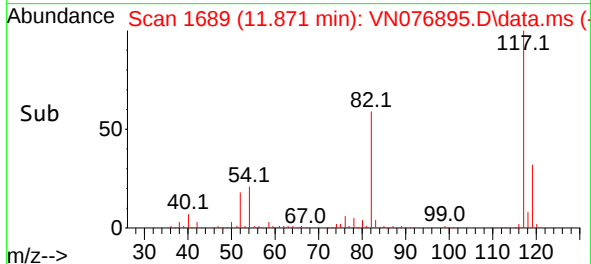
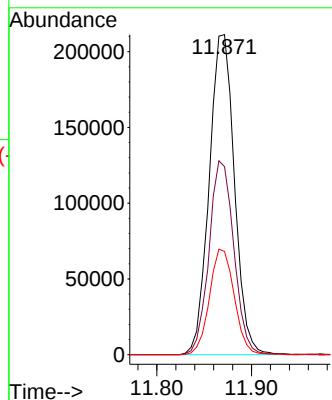
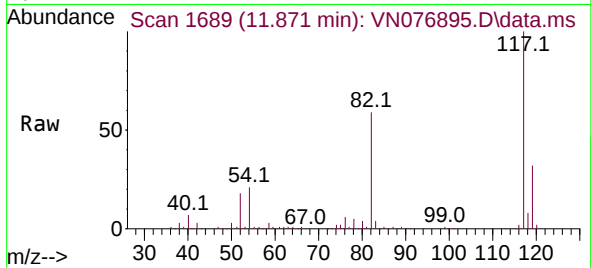




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

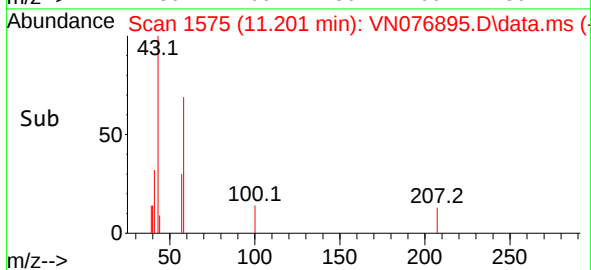
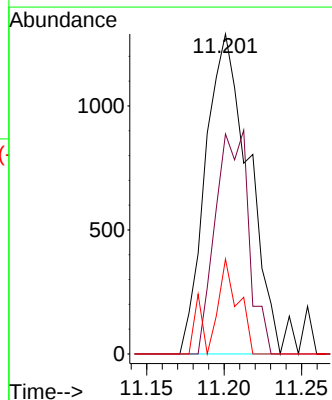
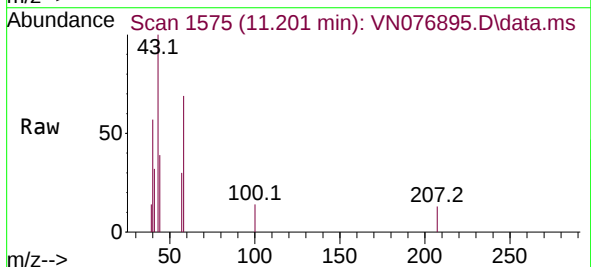
Instrument :
MSVOA_N
ClientSampleId :
RW5-IDWGW-20230308

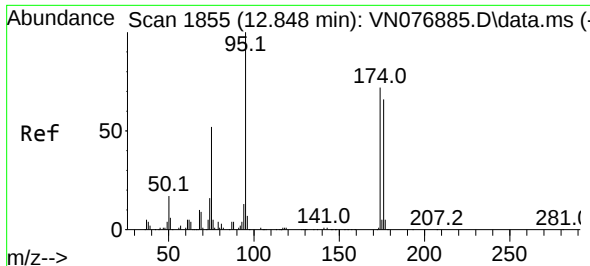
Tgt Ion:117 Resp: 392404
Ion Ratio Lower Upper
117 100
82 59.5 45.4 68.0
119 32.4 26.8 40.2



#59
2-Hexanone
Concen: 0.442 ug/l
RT: 11.201 min Scan# 1575
Delta R.T. 0.006 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

Tgt Ion: 43 Resp: 2491
Ion Ratio Lower Upper
43 100
58 54.0 40.6 60.8
57 13.5 13.1 19.7

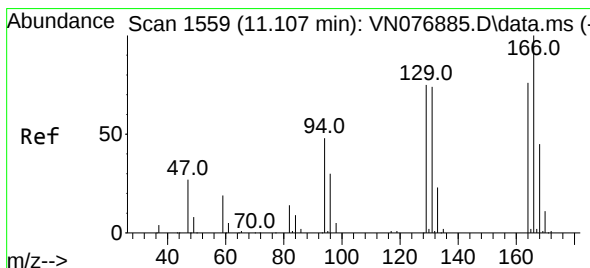
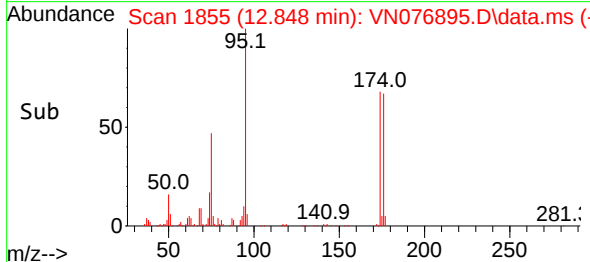
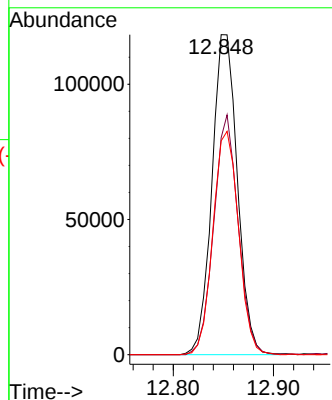
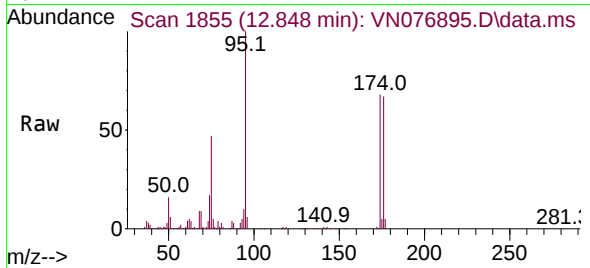




#60
4-Bromofluorobenzene
Concen: 28.046 ug/l
RT: 12.848 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

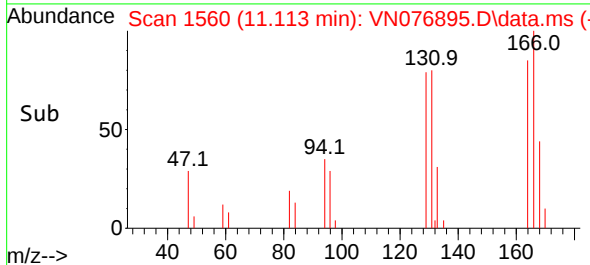
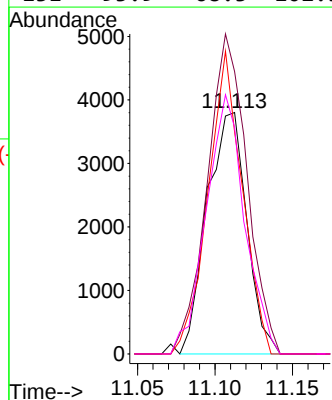
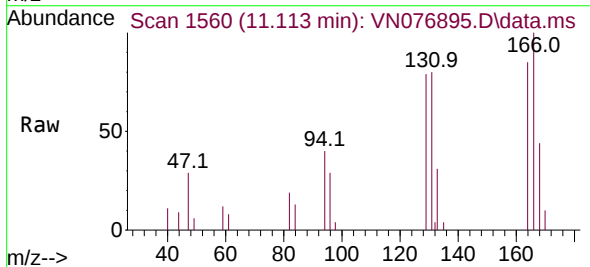
Instrument :
MSVOA_N
ClientSampleId :
RW5-IDWGW-20230308

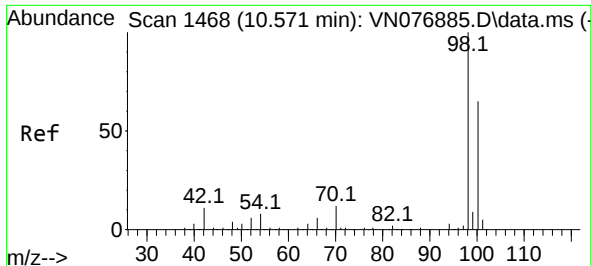
Tgt Ion: 95 Resp: 208288
Ion Ratio Lower Upper
95 100
174 71.9 64.2 96.4
176 70.2 61.4 92.0



#61
Tetrachloroethene
Concen: 1.093 ug/l
RT: 11.113 min Scan# 1560
Delta R.T. 0.006 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

Tgt Ion:164 Resp: 6771
Ion Ratio Lower Upper
164 100
166 117.0 96.2 144.2
129 91.9 78.2 117.4
131 93.9 68.3 102.5

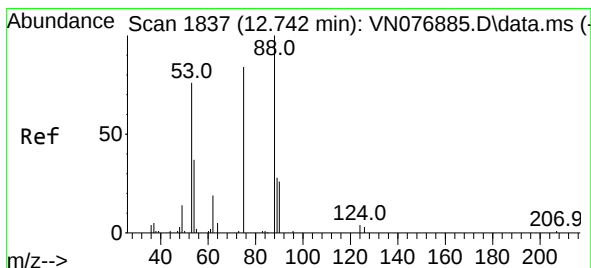
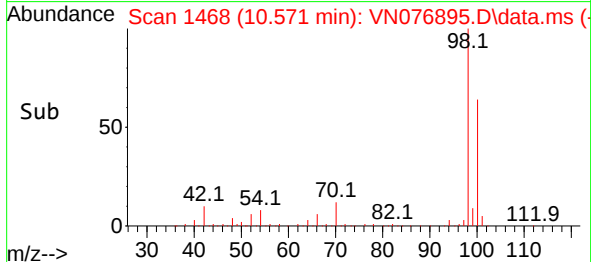
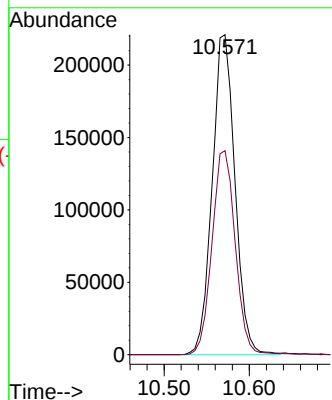
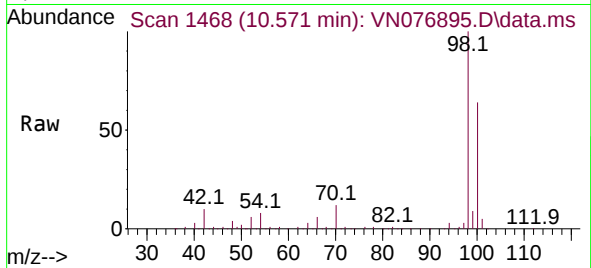




#63
Toluene-d8
Concen: 29.729 ug/l
RT: 10.571 min Scan# 1468
Delta R.T. -0.001 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

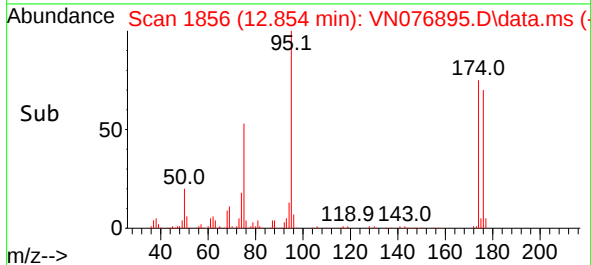
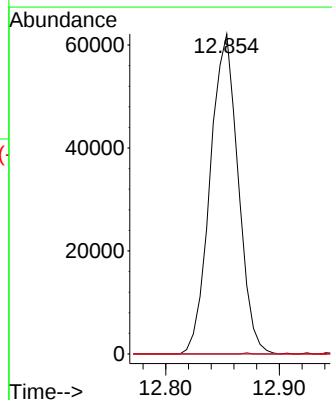
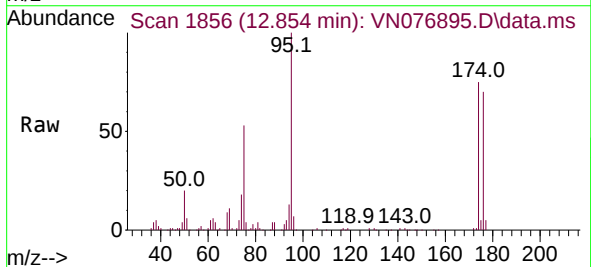
Instrument :
MSVOA_N
ClientSampleId :
RW5-IDWGW-20230308

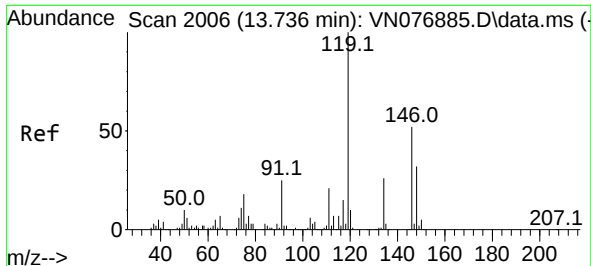
Tgt Ion: 98 Resp: 410309
Ion Ratio Lower Upper
98 100
100 65.1 53.8 80.6



#77
t-1,4-Dichloro-2-butene
Concen: 44.598 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

Tgt Ion: 75 Resp: 106366
Ion Ratio Lower Upper
75 100
53 0.0 50.4 151.3#
89 0.0 22.1 66.5#

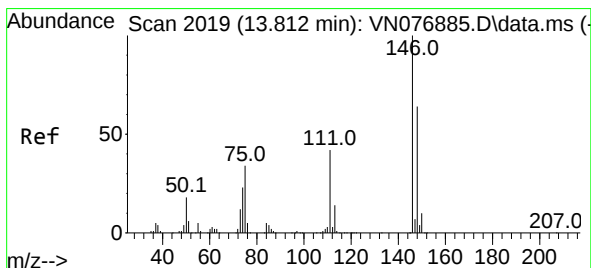
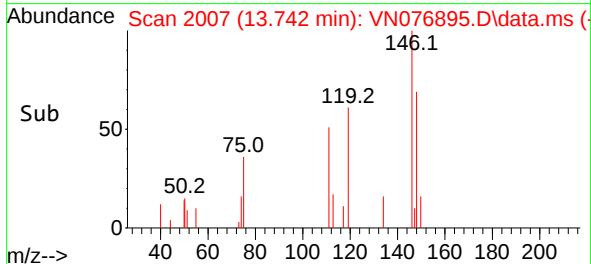
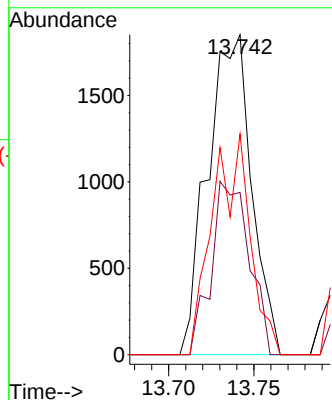
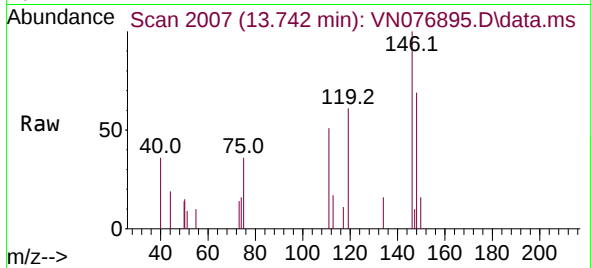




#83
1,3-Dichlorobenzene
Concen: 0.282 ug/l
RT: 13.742 min Scan# 2006
Delta R.T. 0.006 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

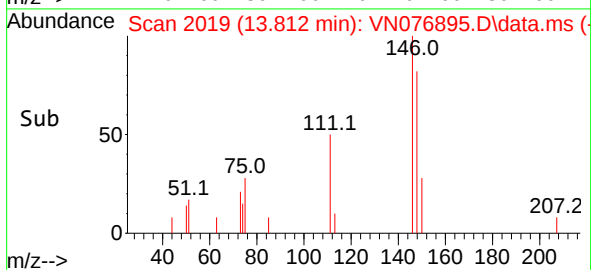
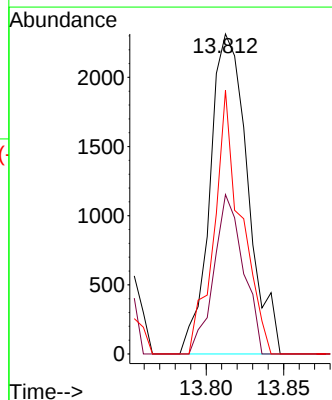
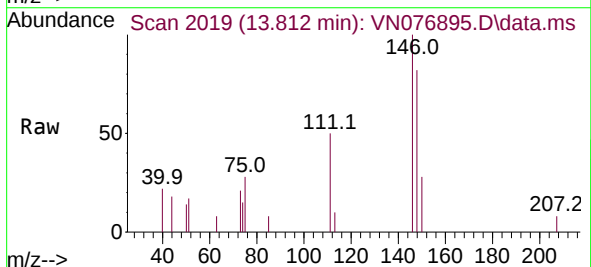
Instrument :
MSVOA_N
ClientSampleId :
RW5-IDWGW-20230308

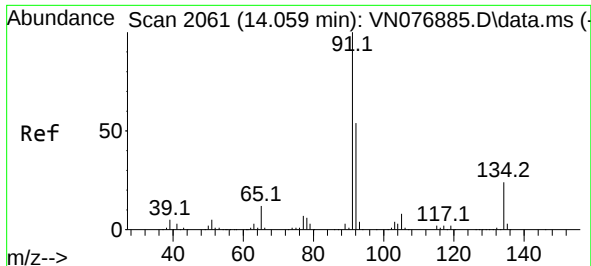
Tgt Ion:146 Resp: 3329
Ion Ratio Lower Upper
146 100
111 46.8 20.3 60.8
148 58.6 31.9 95.5



#84
1,4-Dichlorobenzene
Concen: 0.342 ug/l
RT: 13.812 min Scan# 2019
Delta R.T. -0.001 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

Tgt Ion:146 Resp: 3916
Ion Ratio Lower Upper
146 100
111 38.9 18.2 54.6
148 59.1 31.1 93.2

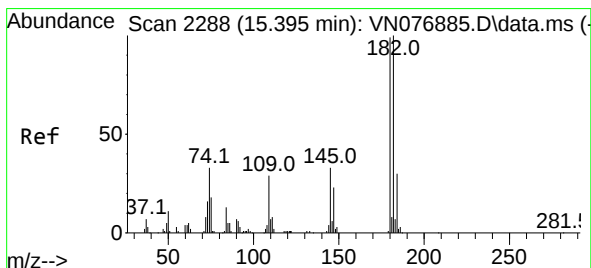
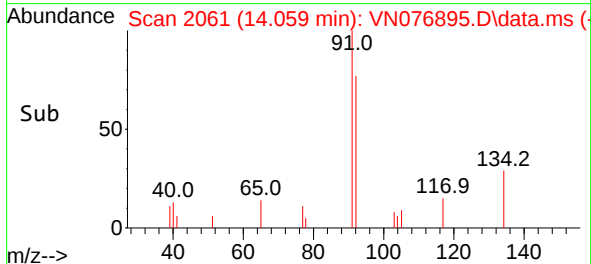
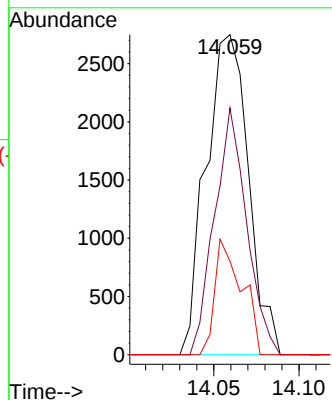
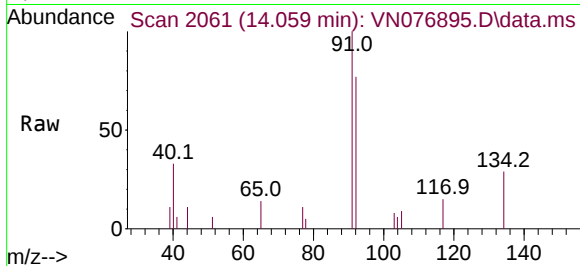




#85
n-Butylbenzene
Concen: 0.238 ug/l
RT: 14.059 min Scan# 2061
Delta R.T. -0.001 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

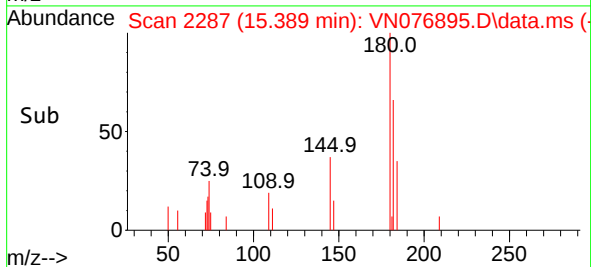
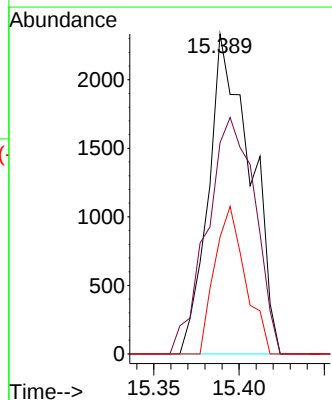
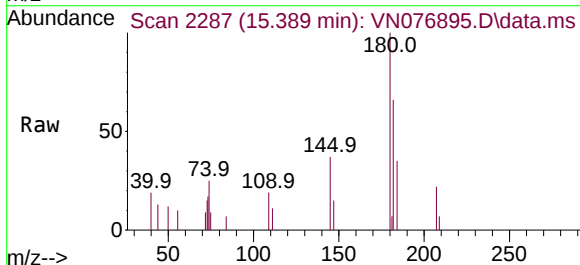
Instrument :
MSVOA_N
ClientSampleId :
RW5-IDWGW-20230308

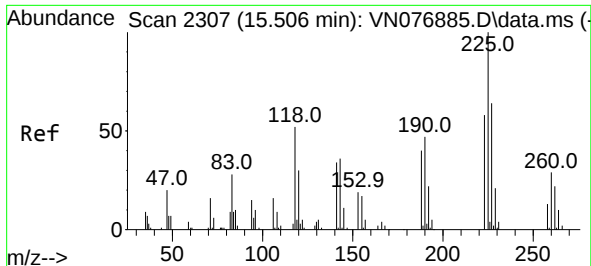
Tgt Ion: 91	Resp:	4768	
Ion	Ratio	Lower	Upper
91	100		
92	58.4	0.0	103.2
134	23.0	0.0	50.0



#89
1,2,4-Trichlorobenzene
Concen: 0.636 ug/l
RT: 15.389 min Scan# 2287
Delta R.T. -0.006 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

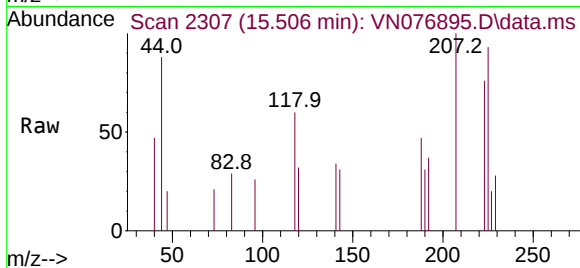
Tgt Ion:180	Resp:	3989	
Ion	Ratio	Lower	Upper
180	100		
182	84.5	76.6	115.0
145	33.8	24.6	36.8



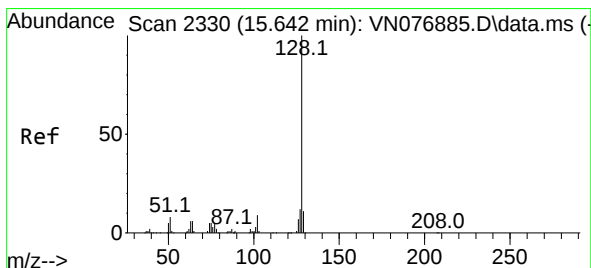
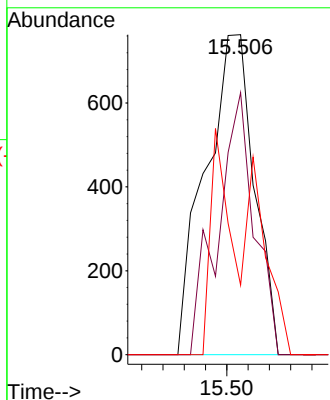
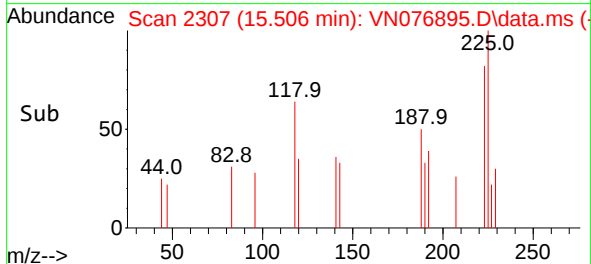


#90
Hexachlorobutadiene
Concen: 0.368 ug/l
RT: 15.506 min Scan# 21
Delta R.T. 0.005 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

Instrument :
MSVOA_N
ClientSampleId :
RW5-IDWGW-20230308

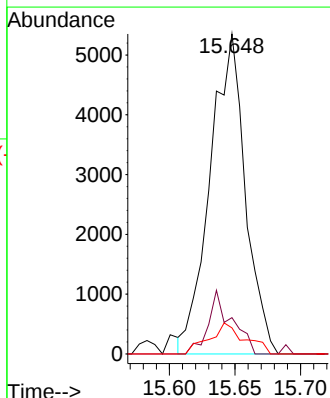
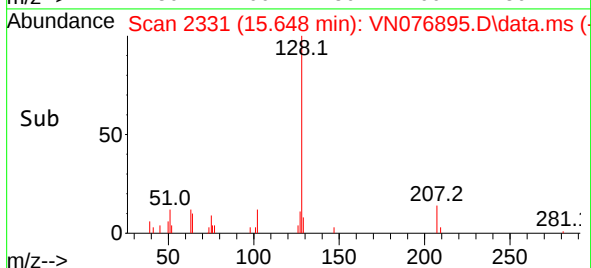
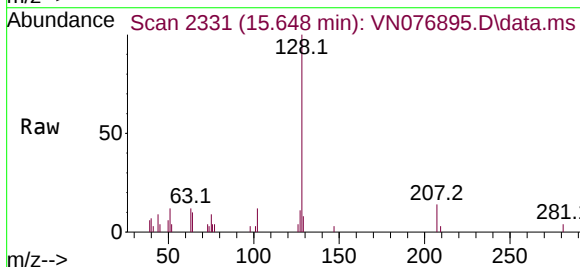


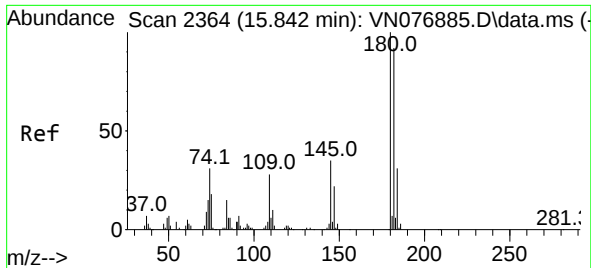
Tgt Ion:225 Resp: 1218
Ion Ratio Lower Upper
225 100
223 61.4 0.0 135.4
227 24.7 0.0 129.4



#91
Naphthalene
Concen: 0.502 ug/l
RT: 15.648 min Scan# 2331
Delta R.T. 0.006 min
Lab File: VN076895.D
Acq: 09 Mar 2023 12:03

Tgt Ion:128 Resp: 9998
Ion Ratio Lower Upper
128 100
127 13.3 11.0 16.6
129 7.4 8.9 13.3#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.547 ug/l
 RT: 15.842 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN076895.D
 Acq: 09 Mar 2023 12:03

Instrument :
 MSVOA_N
 ClientSampleId :
 RW5-IDWGW-20230308

Tgt Ion:180	Resp:	3442
Ion	Ratio	Lower Upper
180	100	
182	88.4	0.0 190.8
145	37.2	0.0 65.0

