

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120721\
 Data File : VN069840.D
 Acq On : 8 Dec 2021 3:16
 Operator : JC/MD
 Sample : M4957-06
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RW4-20211206

Quant Time: Dec 08 06:38:07 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 03 08:46:47 2021
 Response via : Initial Calibration

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

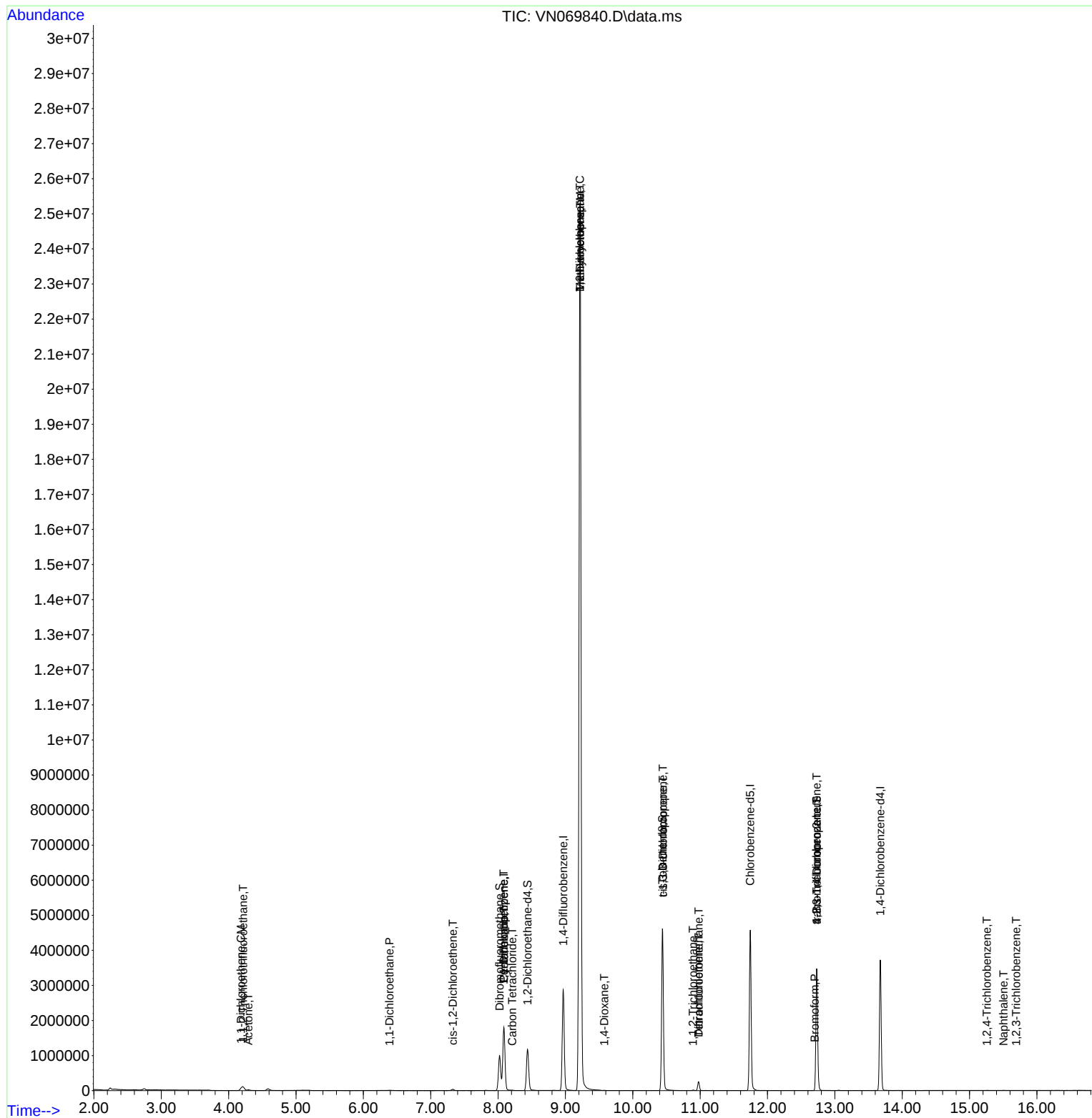
Internal Standards						
1) Pentafluorobenzene	8.086	168	1337325	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2421595	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2580140	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	1002653	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	1041299	50.43	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 100.86%			
35) Dibromofluoromethane	8.021	113	715771	47.19	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 94.38%			
50) Toluene-d8	10.440	98	3128402	51.36	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 102.72%			
62) 4-Bromofluorobenzene	12.731	95	1226272	55.58	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 111.16%			
Target Compounds					Qvalue	
9) 1,1,2-Trichlorotrifluo...	4.216	101	61045	4.62	ug/l	97
12) 1,1-Dichloroethene	4.183	96	20992	1.65	ug/l	90
16) Acetone	4.293	43	32890	2.65	ug/l	95
24) 1,1-Dichloroethane	6.388	63	9269	0.32	ug/l #	91
27) cis-1,2-Dichloroethene	7.329	96	18715	1.12	ug/l	91
31) Cyclohexane	8.086	56	34562	1.20	ug/l #	36
36) 1,1-Dichloropropene	8.083	75	112627	4.89	ug/l #	49
38) Carbon Tetrachloride	8.209	117	6669	0.30	ug/l #	92
39) Methylcyclohexane	9.215	83	119009	4.34	ug/l #	1
44) Trichloroethene	9.217	130	8894367	528.85	ug/l	90
45) 1,2-Dichloropropane	9.215	63	31598	1.67	ug/l #	1
49) 1,4-Dioxane	9.577	88	3326	7.82	ug/l #	83
53) t-1,3-Dichloropropene	10.446	75	754	2.82	ug/l #	1
54) cis-1,3-Dichloropropene	10.446	75	754	2.02	ug/l #	1
55) 1,1,2-Trichloroethane	10.894	97	4324	0.25	ug/l	87
60) Dibromochloromethane	10.977	129	56092	5.25	ug/l #	11
64) Tetrachloroethene	10.977	164	54574	3.12	ug/l #	89
71) Bromoform	12.701	173	30	2.73	ug/l #	29
76) 1,2,3-Trichloropropane	12.731	75	681391	23.70	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	681391	75.32	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.257	180	171	2.89	ug/l #	1
95) Naphthalene	15.504	128	2961	4.04	ug/l #	77
96) 1,2,3-Trichlorobenzene	15.692	180	760	2.48	ug/l #	67

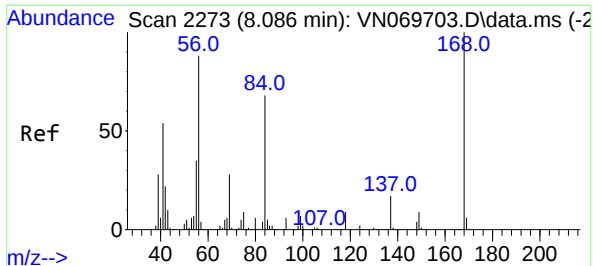
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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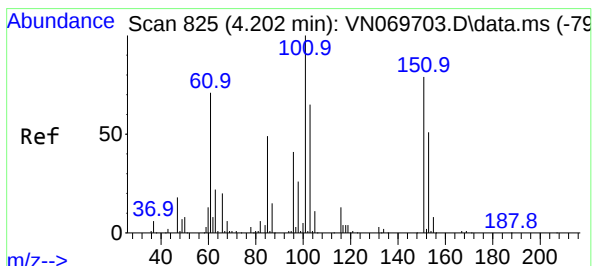
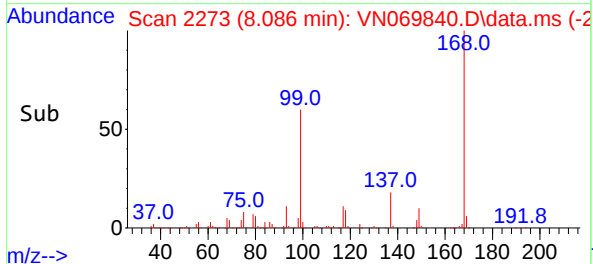
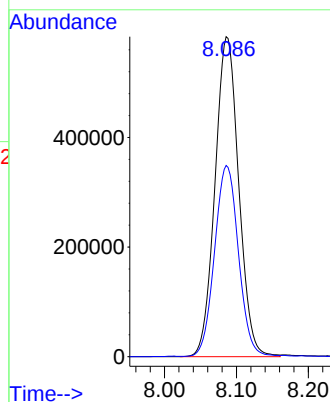
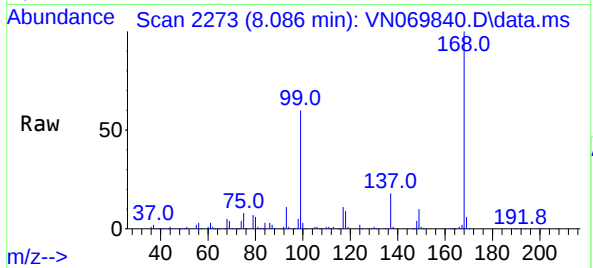




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

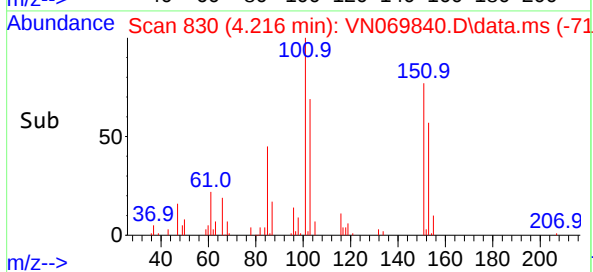
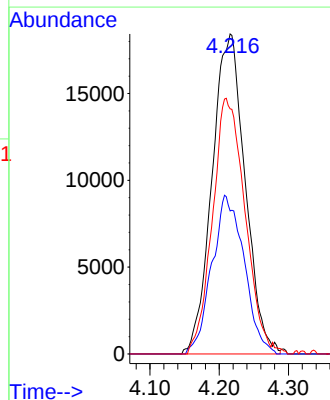
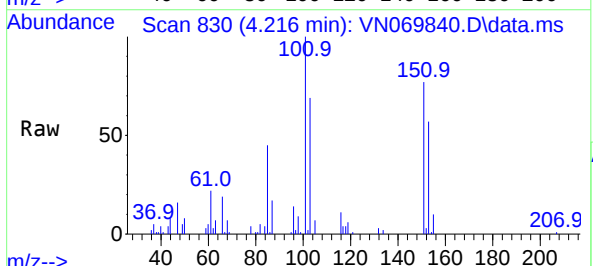
Instrument :
MSVOA_N
ClientSampleId :
RW4-20211206

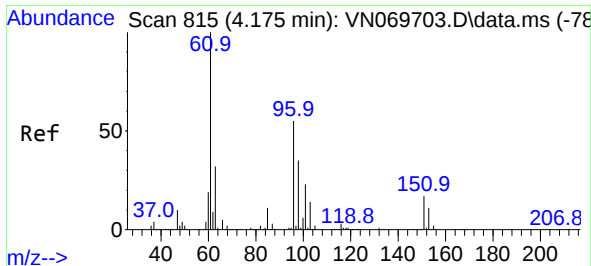
Tgt Ion:168 Resp: 1337325
Ion Ratio Lower Upper
168 100
99 59.7 41.3 61.9



#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.62 ug/l
RT: 4.216 min Scan# 830
Delta R.T. 0.014 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

Tgt Ion:101 Resp: 61045
Ion Ratio Lower Upper
101 100
85 48.4 37.2 55.8
151 79.0 65.9 98.9

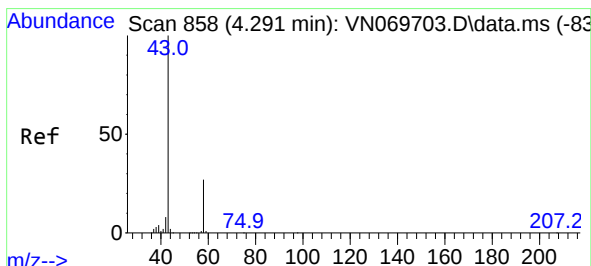
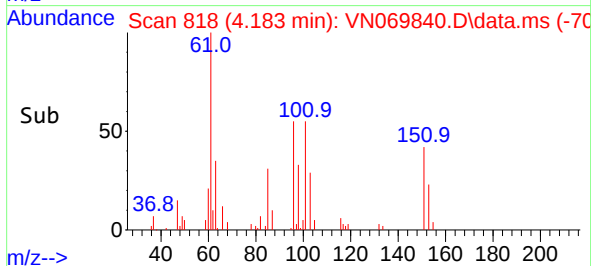
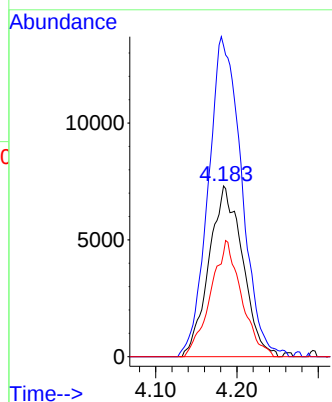
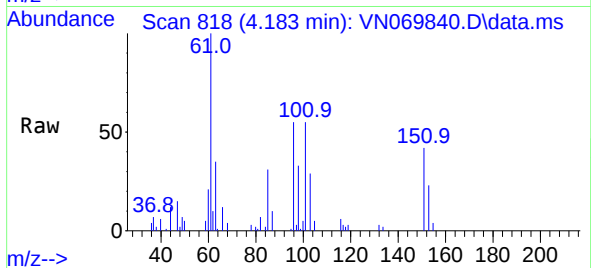




#12
1,1-Dichloroethene
Concen: 1.65 ug/l
RT: 4.183 min Scan# 815
Delta R.T. 0.008 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

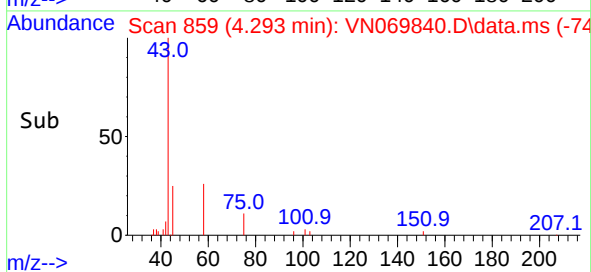
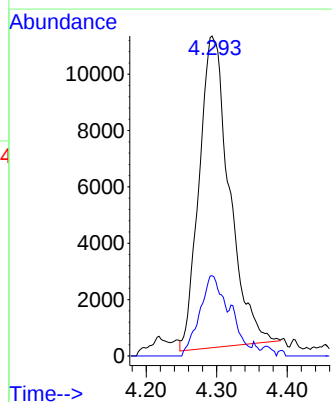
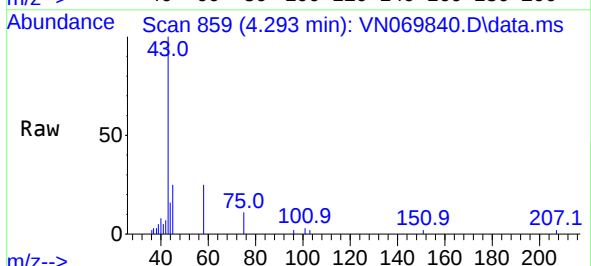
Instrument :
MSVOA_N
ClientSampleId :
RW4-20211206

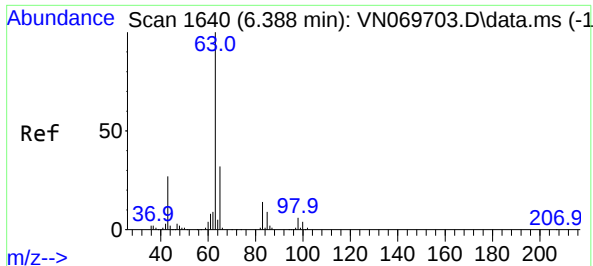
Tgt Ion: 96 Resp: 20992
Ion Ratio Lower Upper
96 100
61 180.0 131.0 196.6
98 60.7 52.4 78.6



#16
Acetone
Concen: 2.65 ug/l
RT: 4.293 min Scan# 859
Delta R.T. 0.003 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

Tgt Ion: 43 Resp: 32890
Ion Ratio Lower Upper
43 100
58 26.3 23.1 34.7

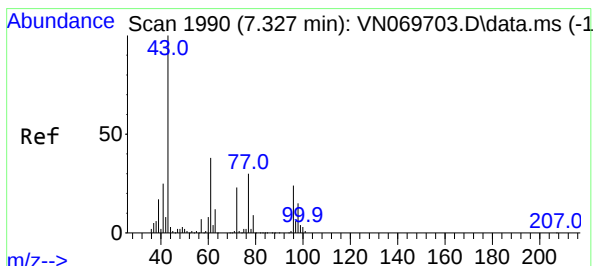
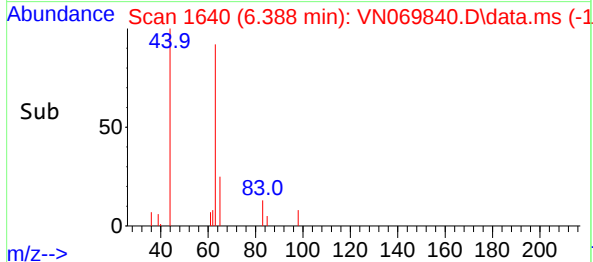
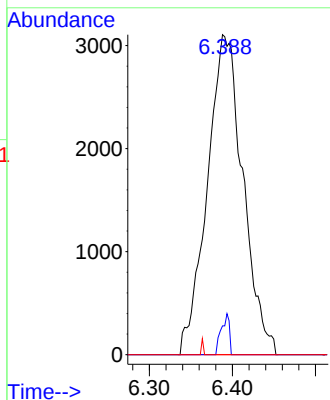
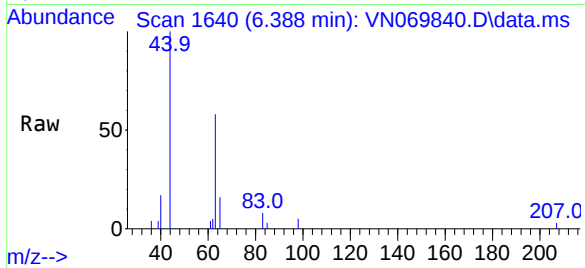




#24
1,1-Dichloroethane
Concen: 0.32 ug/l
RT: 6.388 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

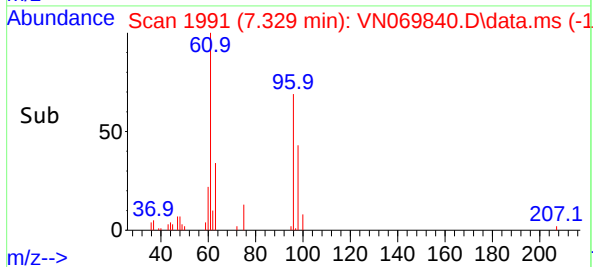
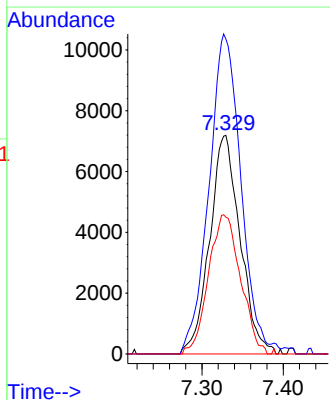
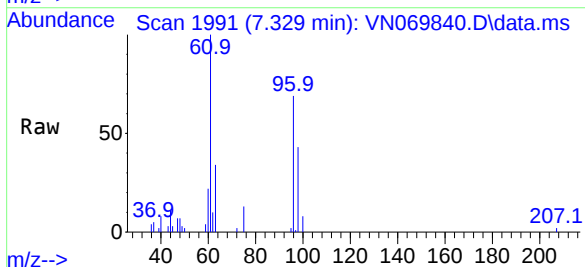
Instrument :
MSVOA_N
ClientSampleId :
RW4-20211206

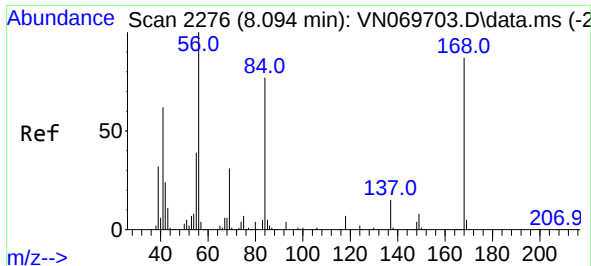
Tgt Ion: 63 Resp: 9269
Ion Ratio Lower Upper
63 100
98 9.0 3.3 9.9
100 0.0 2.1 6.5#



#27
cis-1,2-Dichloroethene
Concen: 1.12 ug/l
RT: 7.329 min Scan# 1991
Delta R.T. 0.003 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

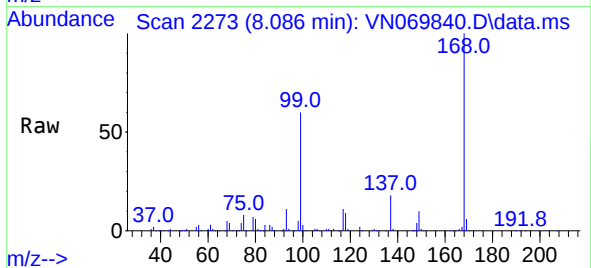
Tgt Ion: 96 Resp: 18715
Ion Ratio Lower Upper
96 100
61 152.3 0.0 275.0
98 66.9 0.0 129.6



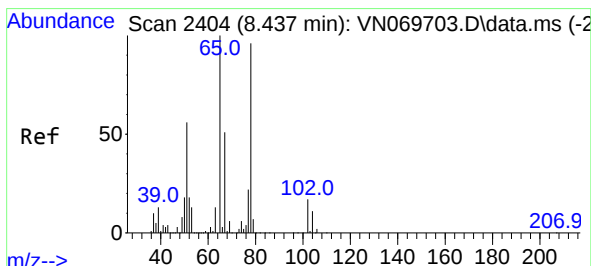
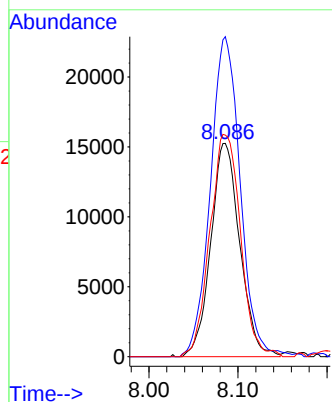
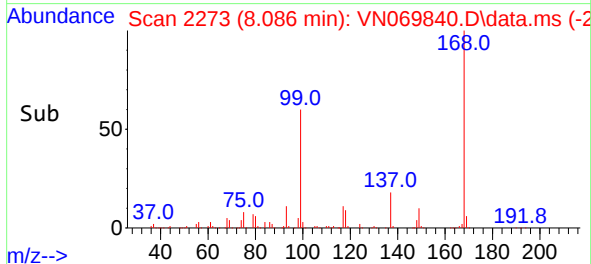


#31
Cyclohexane
Concen: 1.20 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.008 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

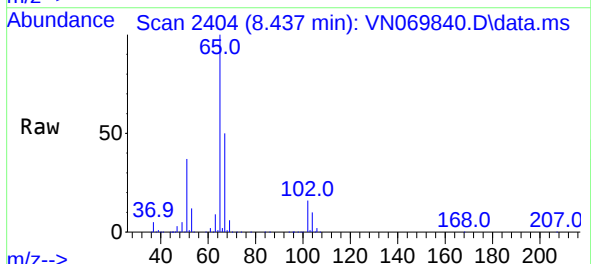
Instrument :
MSVOA_N
ClientSampleId :
RW4-20211206



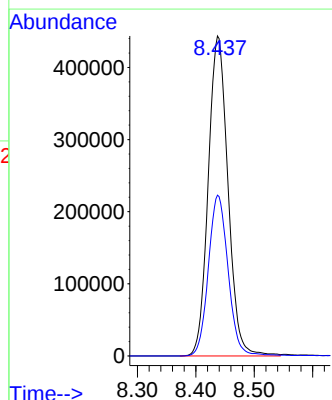
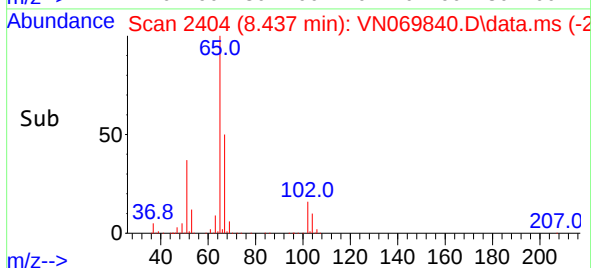
Tgt Ion: 56 Resp: 34562
Ion Ratio Lower Upper
56 100
69 150.1 27.1 40.7#
84 103.9 73.4 110.0

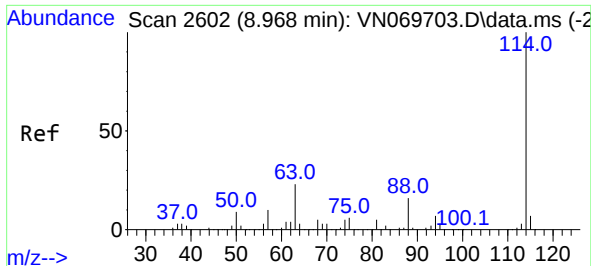


#33
1,2-Dichloroethane-d4
Concen: 50.43 ug/l
RT: 8.437 min Scan# 2404
Delta R.T. 0.000 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16



Tgt Ion: 65 Resp: 1041299
Ion Ratio Lower Upper
65 100
67 50.4 0.0 103.0

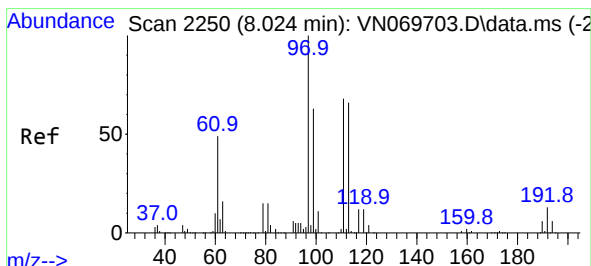
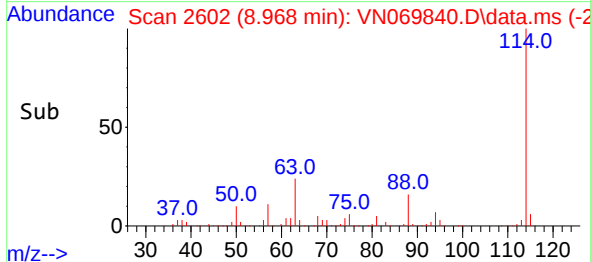
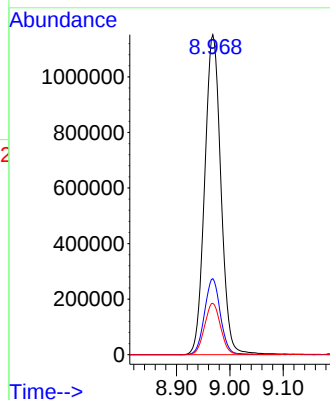
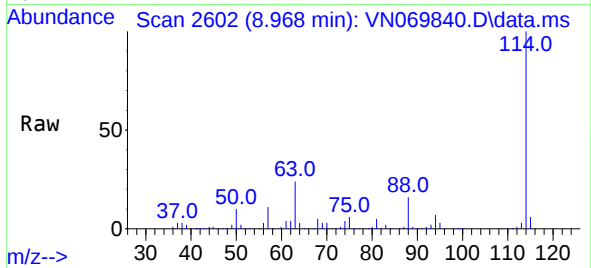




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.968 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

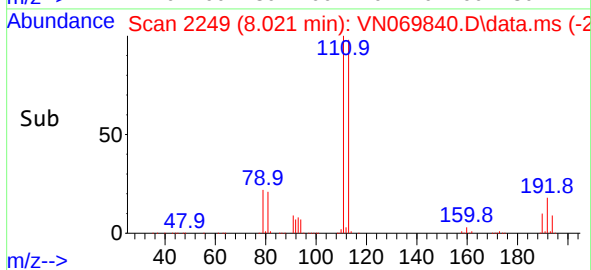
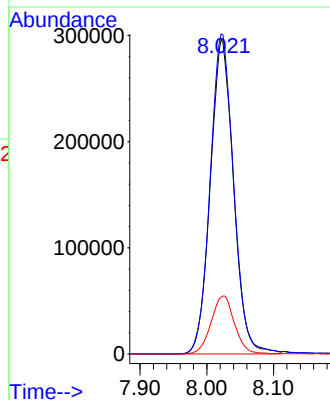
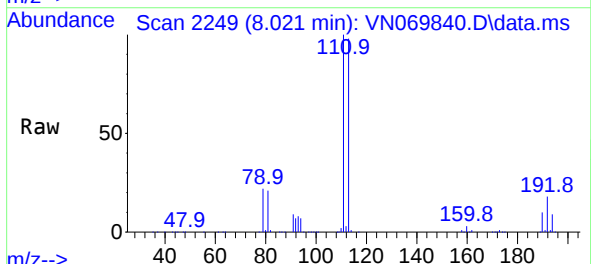
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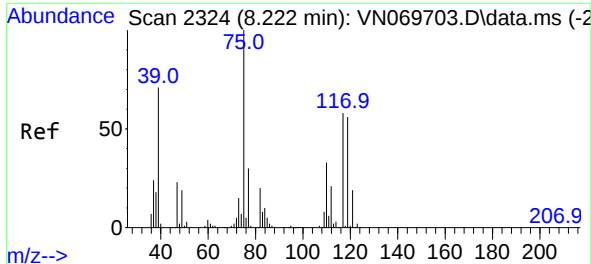
Tgt Ion:114 Resp: 2421595
Ion Ratio Lower Upper
114 100
63 23.7 0.0 37.8
88 16.1 0.0 27.4



#35
Dibromofluoromethane
Concen: 47.19 ug/l
RT: 8.021 min Scan# 2249
Delta R.T. -0.003 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

Tgt Ion:113 Resp: 715771
Ion Ratio Lower Upper
113 100
111 102.9 82.2 123.2
192 18.6 16.9 25.3

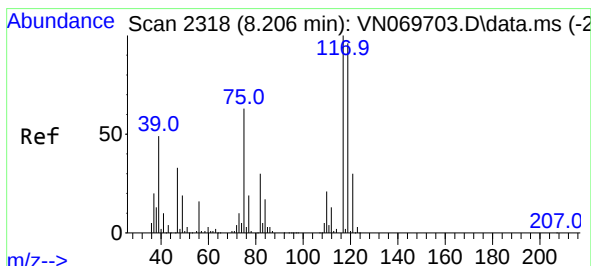
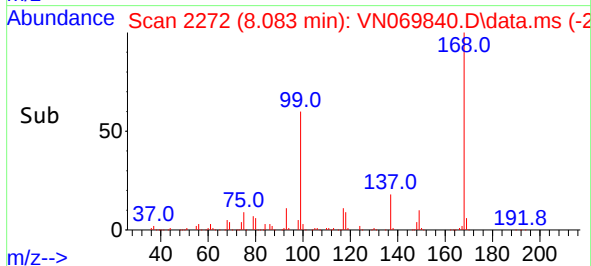
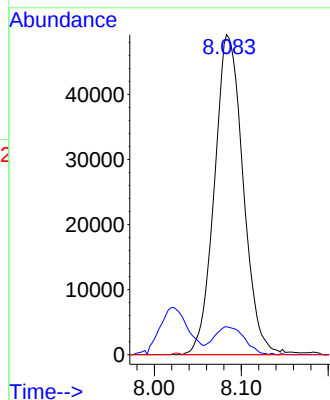
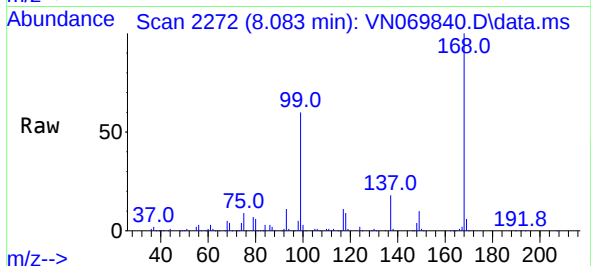




#36
1,1-Dichloropropene
Concen: 4.89 ug/l
RT: 8.083 min Scan# 211
Delta R.T. -0.139 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

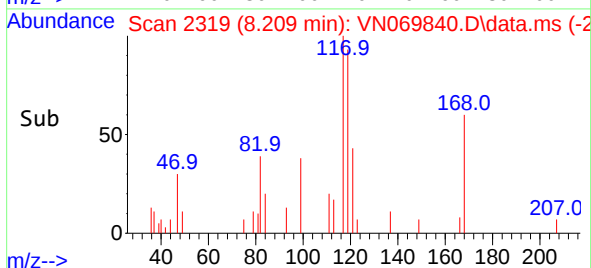
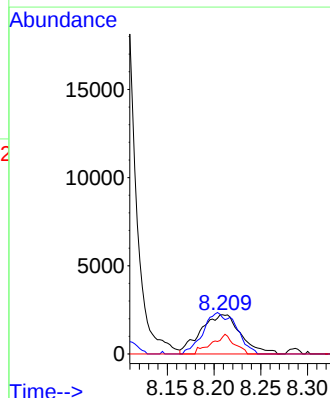
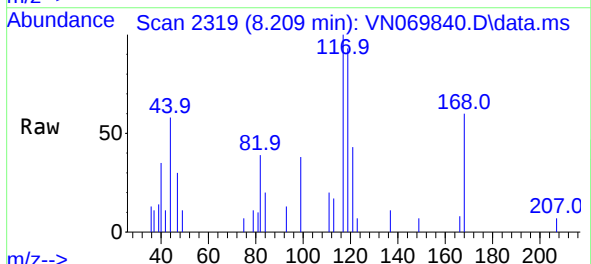
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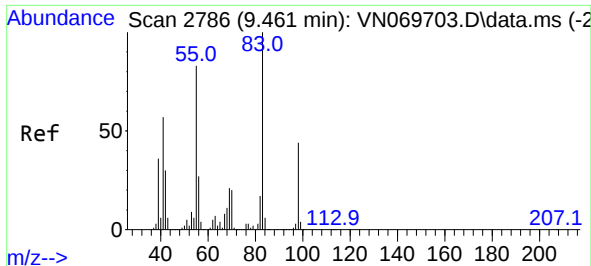
Tgt Ion: 75 Resp: 112627
Ion Ratio Lower Upper
75 100
110 9.2 18.4 55.2#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 0.30 ug/l
RT: 8.209 min Scan# 2319
Delta R.T. 0.003 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

Tgt Ion: 117 Resp: 6669
Ion Ratio Lower Upper
117 100
119 92.7 76.1 114.1
121 43.4 24.2 36.2#





#39

Methylcyclohexane

Concen: 4.34 ug/l

RT: 9.215 min Scan# 2

Delta R.T. -0.247 min

Lab File: VN069840.D

Acq: 8 Dec 2021 3:16

Instrument :

MSVOA_N

ClientSampleId :

RW4-20211206

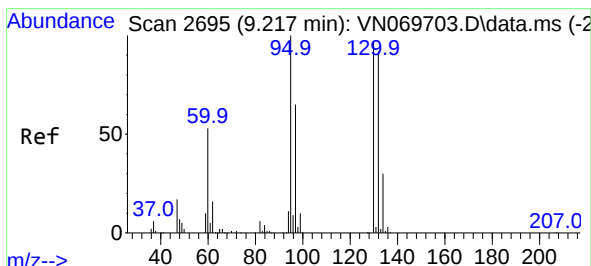
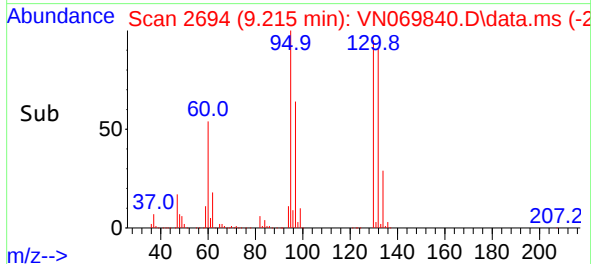
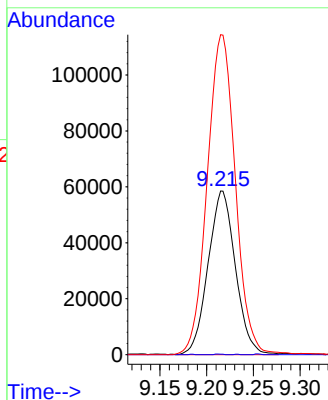
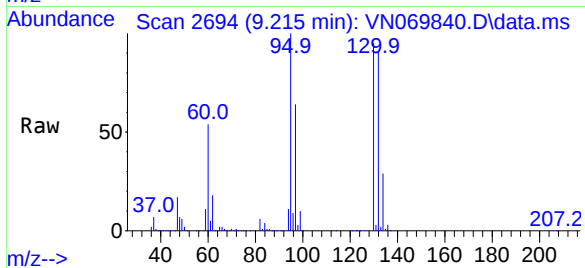
Tgt Ion: 83 Resp: 119009

Ion Ratio Lower Upper

83 100

55 0.3 58.1 87.1#

98 194.8 38.4 57.6#



#44

Trichloroethene

Concen: 528.85 ug/l

RT: 9.217 min Scan# 2695

Delta R.T. 0.000 min

Lab File: VN069840.D

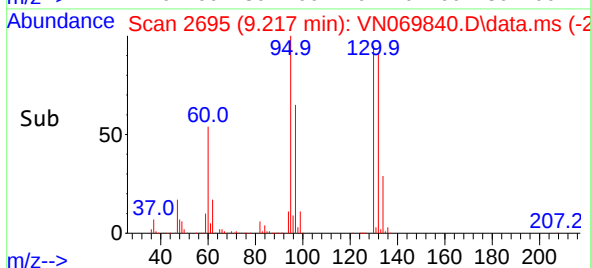
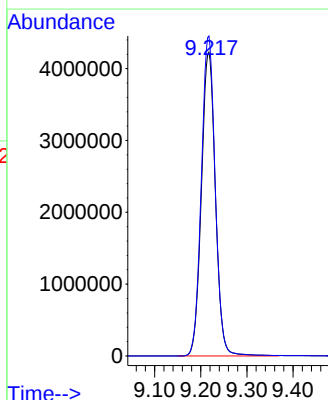
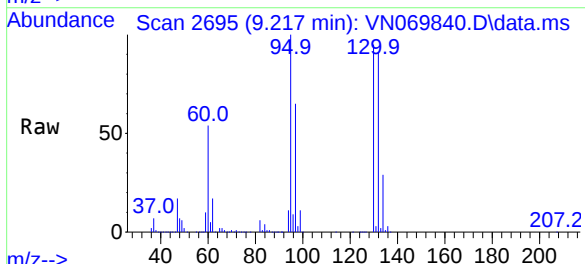
Acq: 8 Dec 2021 3:16

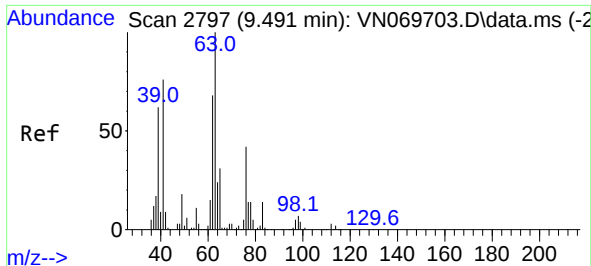
Tgt Ion:130 Resp: 8894367

Ion Ratio Lower Upper

130 100

95 105.4 0.0 191.2

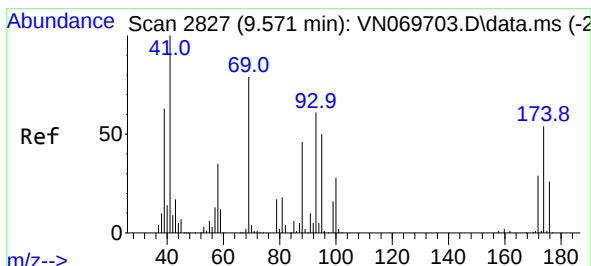
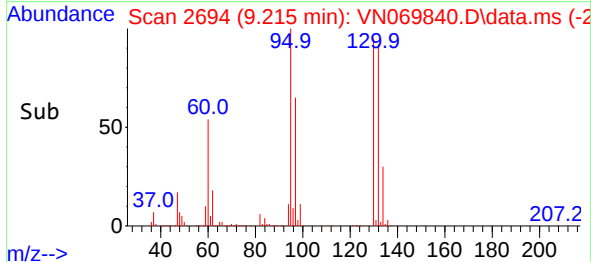
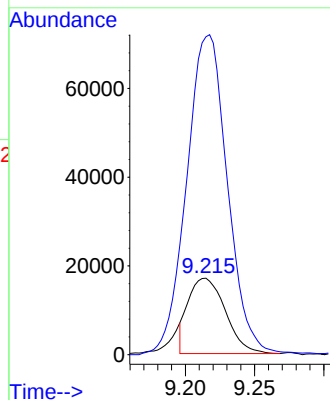
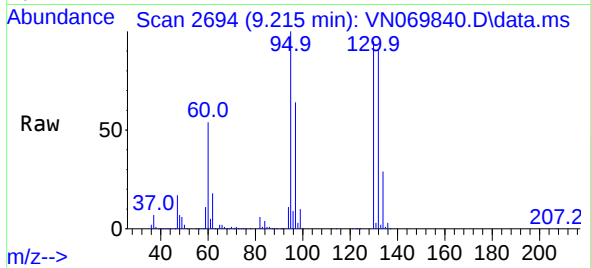




#45
1,2-Dichloropropane
Concen: 1.67 ug/l
RT: 9.215 min Scan# 21
Delta R.T. -0.276 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

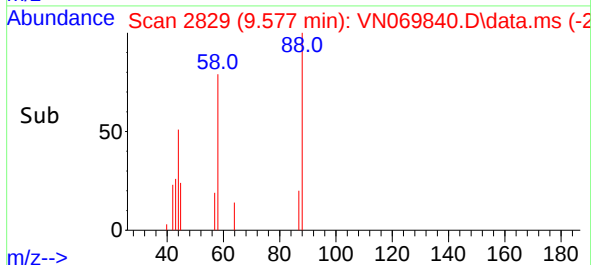
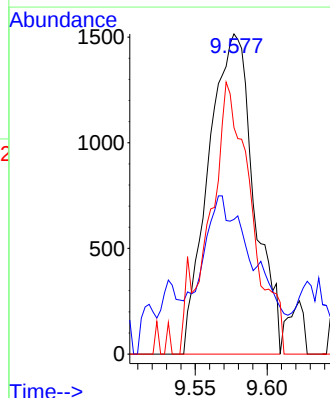
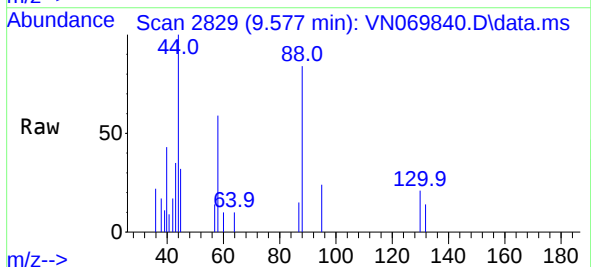
Instrument :
MSVOA_N
ClientSampleId :
RW4-20211206

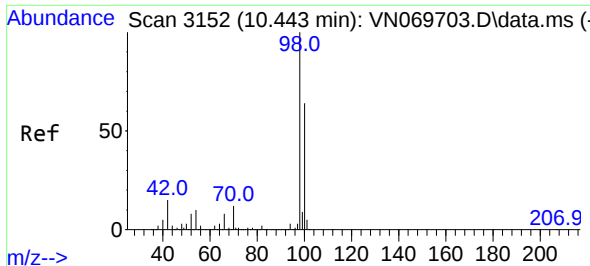
Tgt Ion: 63 Resp: 31598
Ion Ratio Lower Upper
63 100
65 418.5 24.7 37.1#



#49
1,4-Dioxane
Concen: 7.82 ug/l
RT: 9.577 min Scan# 2829
Delta R.T. 0.006 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

Tgt Ion: 88 Resp: 3326
Ion Ratio Lower Upper
88 100
43 14.0 23.4 35.2#
58 72.7 50.6 75.8

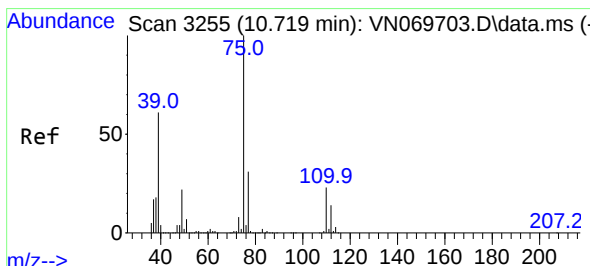
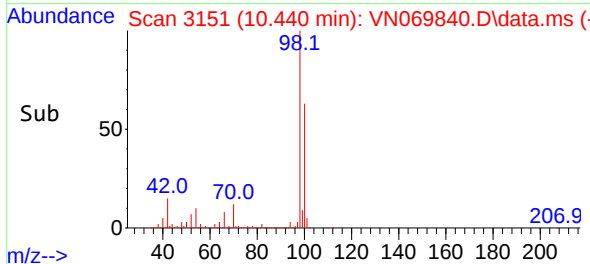
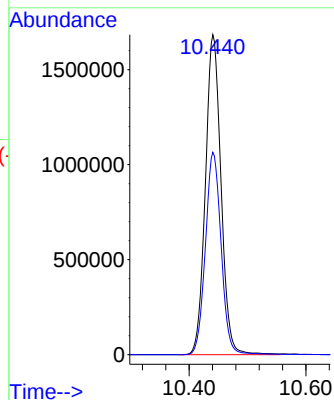
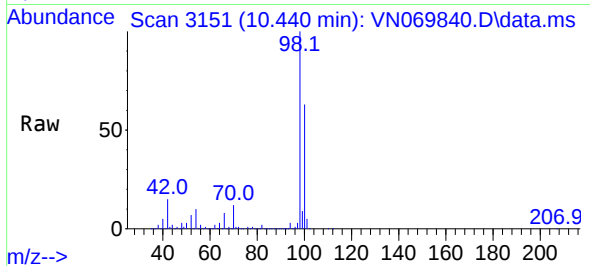




#50
Toluene-d8
Concen: 51.36 ug/l
RT: 10.440 min Scan# 3152
Delta R.T. -0.003 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

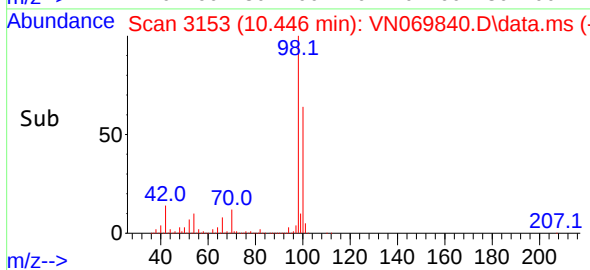
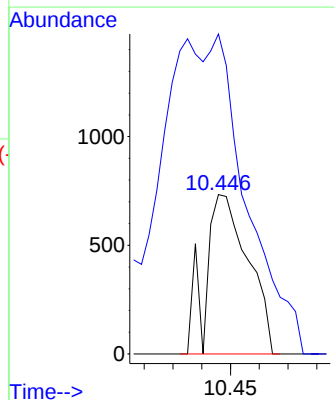
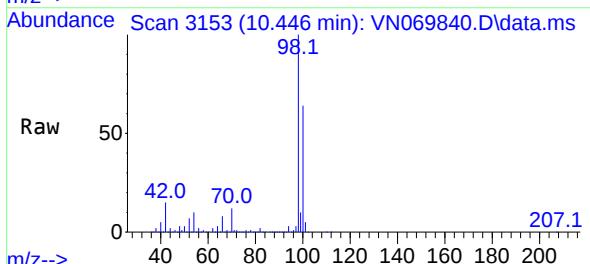
Instrument :
MSVOA_N
ClientSampleId :
RW4-20211206

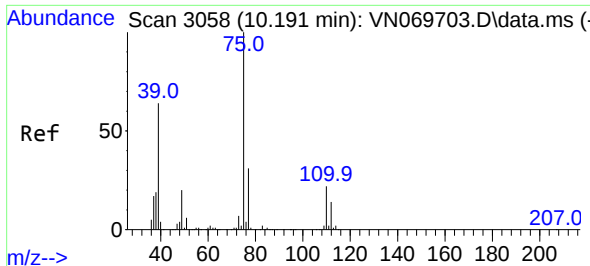
Tgt Ion: 98 Resp: 3128402
Ion Ratio Lower Upper
98 100
100 63.7 50.4 75.6



#53
t-1,3-Dichloropropene
Concen: 2.82 ug/l
RT: 10.446 min Scan# 3153
Delta R.T. -0.273 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

Tgt Ion: 75 Resp: 754
Ion Ratio Lower Upper
75 100
77 165.2 25.6 38.4#

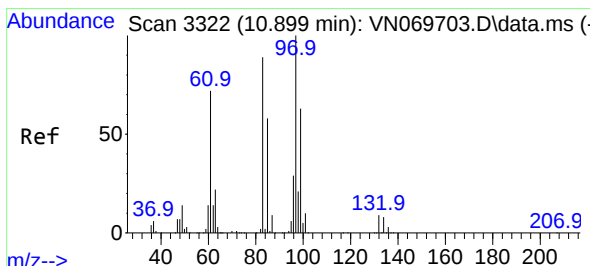
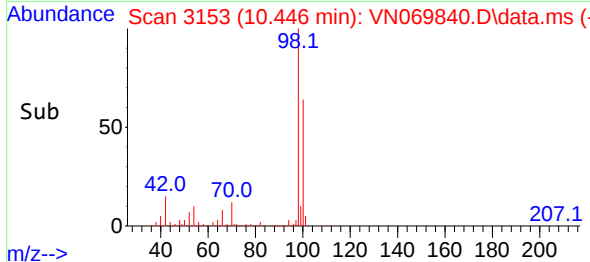
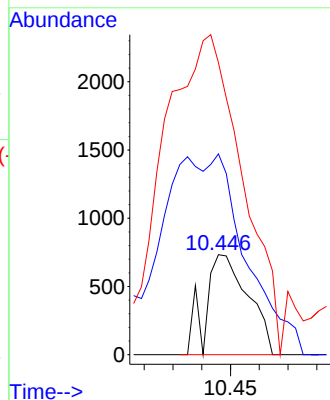
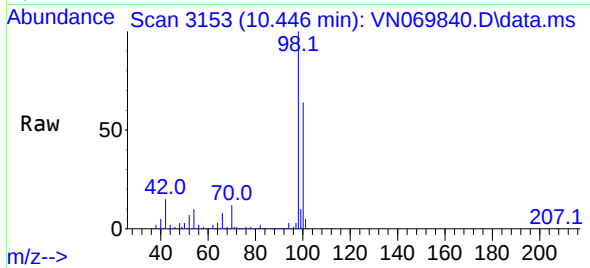




#54
cis-1,3-Dichloropropene
Concen: 2.02 ug/l
RT: 10.446 min Scan# 3153
Delta R.T. 0.255 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

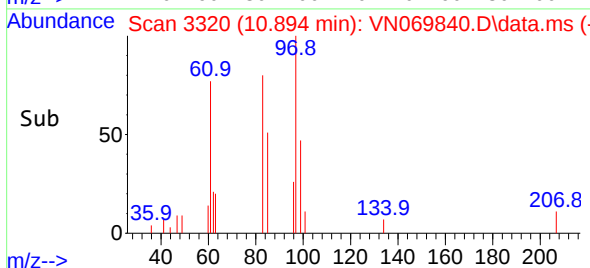
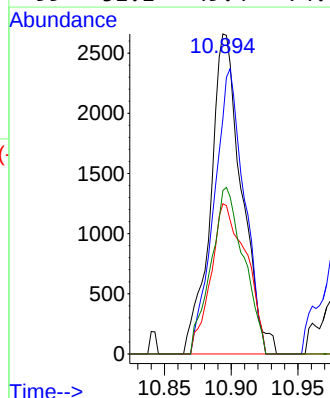
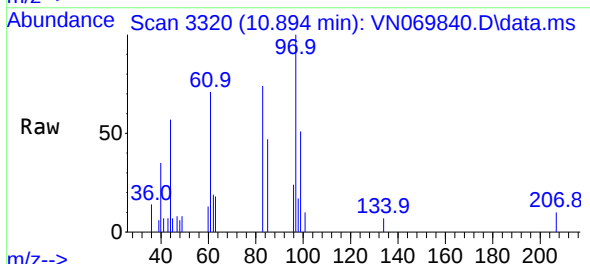
Instrument :
MSVOA_N
ClientSampleId :
RW4-20211206

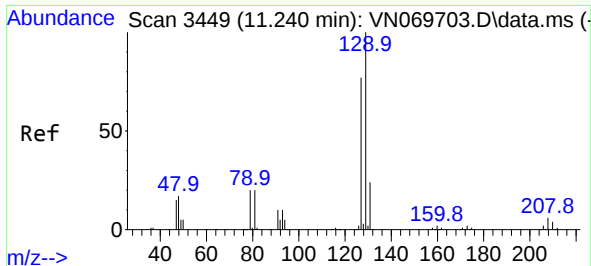
Tgt Ion: 75 Resp: 754
Ion Ratio Lower Upper
75 100
77 165.2 26.4 39.6#
39 292.0 42.5 63.7#



#55
1,1,2-Trichloroethane
Concen: 0.25 ug/l
RT: 10.894 min Scan# 3320
Delta R.T. -0.005 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

Tgt Ion: 97 Resp: 4324
Ion Ratio Lower Upper
97 100
83 73.6 67.8 101.6
85 46.9 45.4 68.2
99 51.1 49.4 74.0

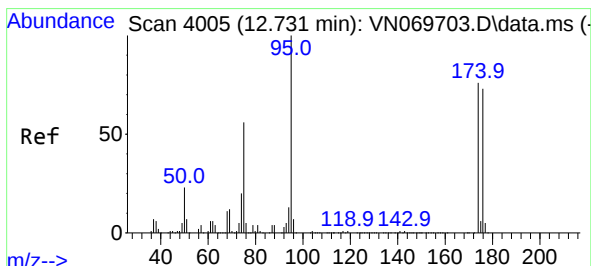
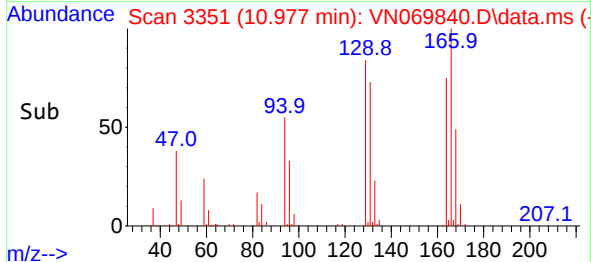
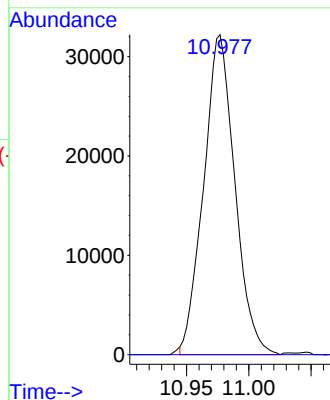
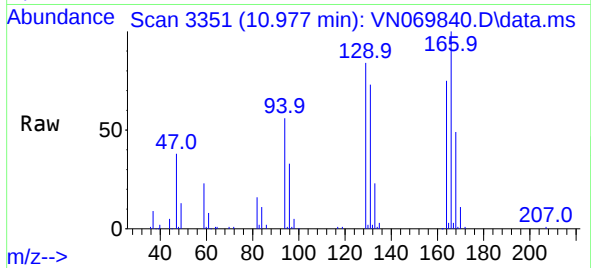




#60
Dibromochloromethane
Concen: 5.25 ug/l
RT: 10.977 min Scan# 31
Delta R.T. -0.263 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

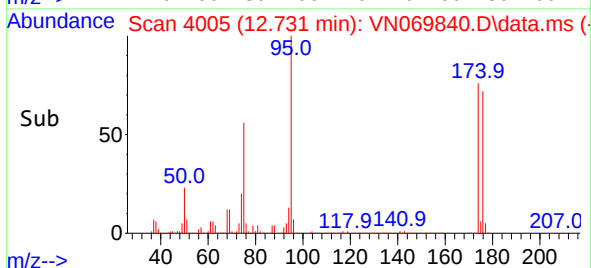
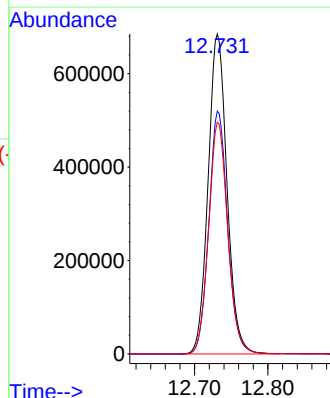
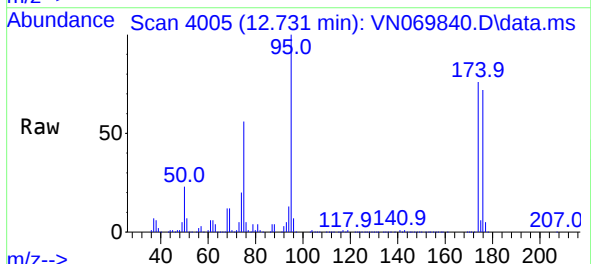
Instrument :
MSVOA_N
ClientSampleId :
RW4-20211206

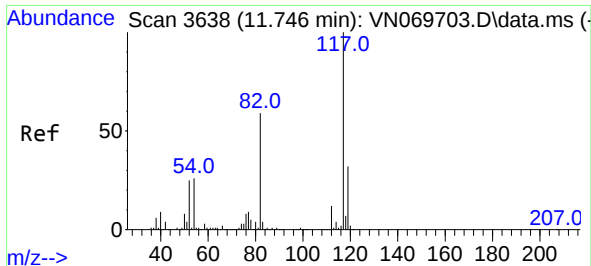
Tgt Ion:129 Resp: 56092
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 55.58 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

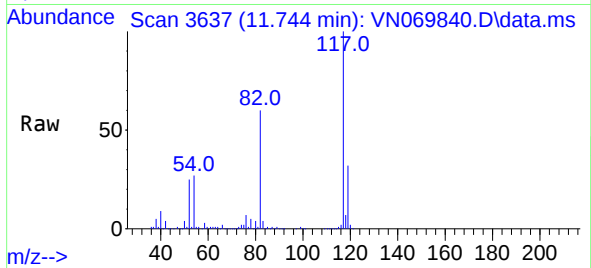
Tgt Ion: 95 Resp: 1226272
Ion Ratio Lower Upper
95 100
174 75.7 0.0 187.2
176 73.0 0.0 181.4





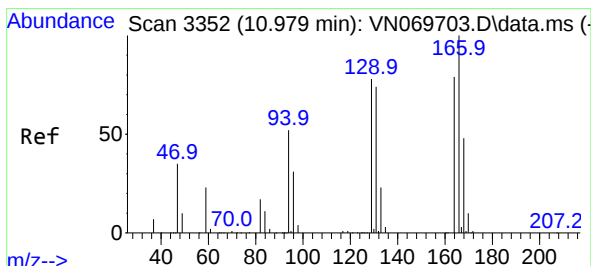
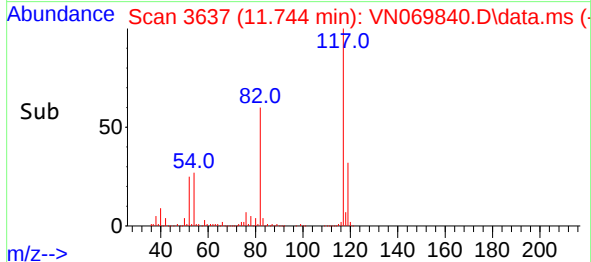
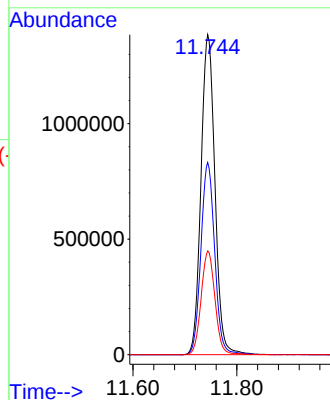
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.744 min Scan# 3638
Delta R.T. -0.002 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

Instrument :
MSVOA_N
ClientSampleId :
RW4-20211206



Tgt Ion:117 Resp: 2580140

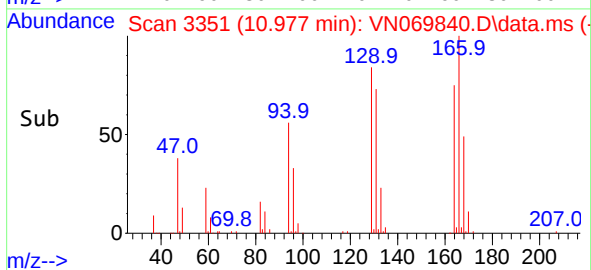
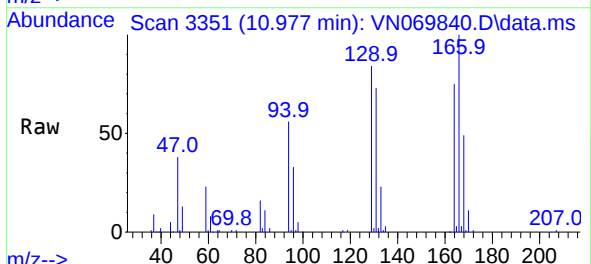
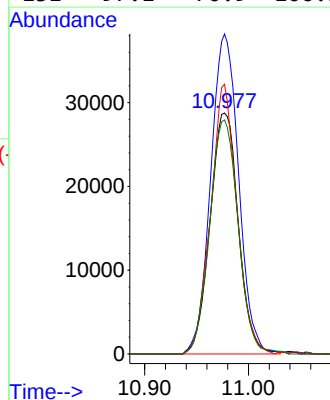
Ion	Ratio	Lower	Upper
117	100		
82	60.1	42.4	63.6
119	32.5	25.4	38.2

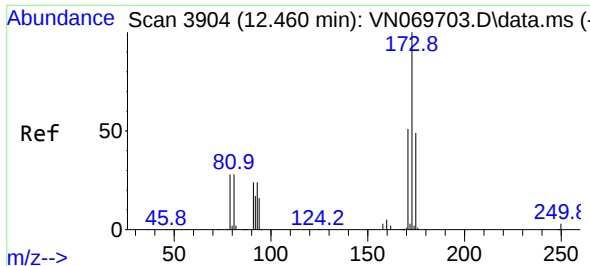


#64
Tetrachloroethene
Concen: 3.12 ug/l
RT: 10.977 min Scan# 3351
Delta R.T. -0.002 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

Tgt Ion:164 Resp: 54574

Ion	Ratio	Lower	Upper
164	100		
166	132.8	101.9	152.9
129	112.0	72.0	108.0
131	97.1	70.9	106.3

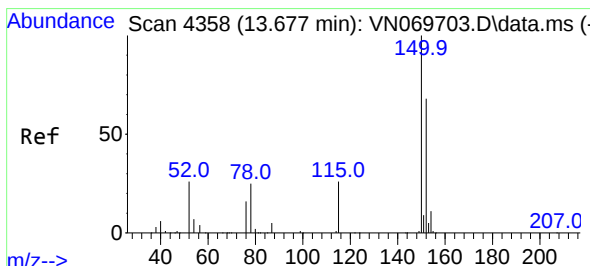
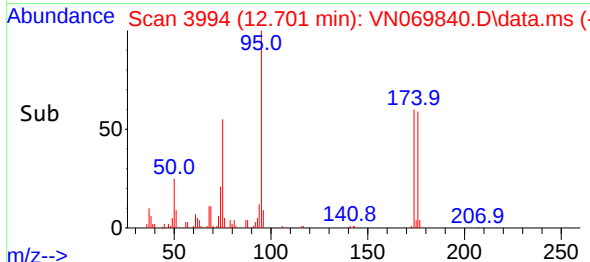
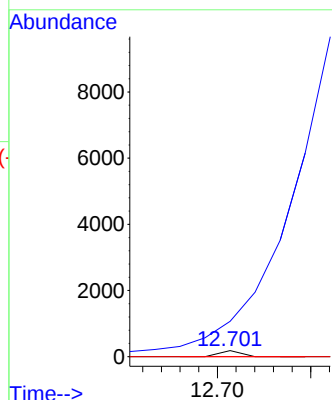
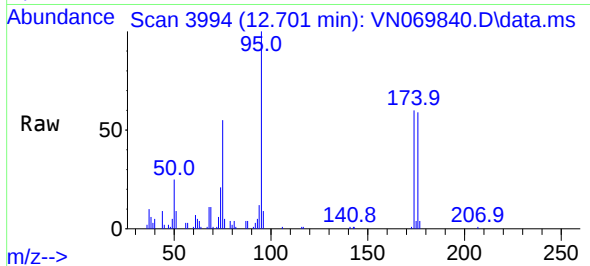




#71
Bromoform
Concen: 2.73 ug/l
RT: 12.701 min Scan# 3994
Delta R.T. 0.241 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

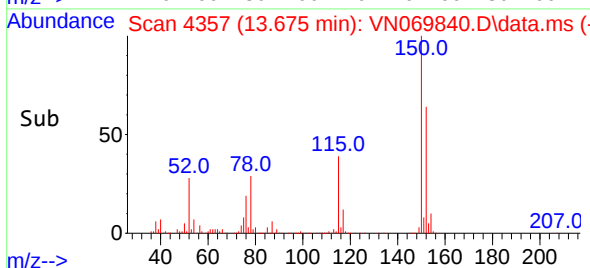
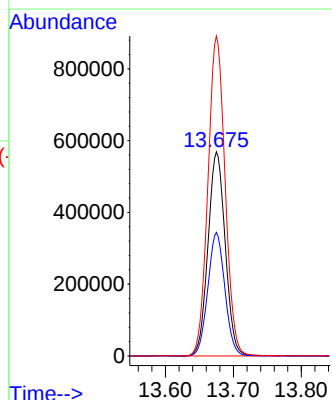
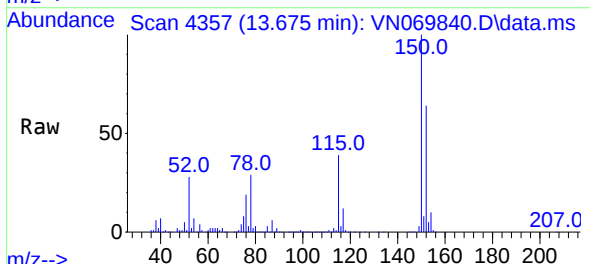
Instrument :
MSVOA_N
ClientSampleId :
RW4-20211206

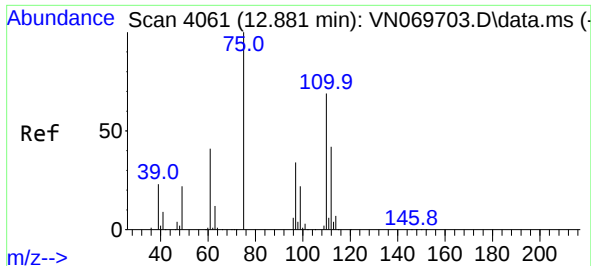
Tgt Ion:173 Resp: 30
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.675 min Scan# 4357
Delta R.T. -0.003 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

Tgt Ion:152 Resp: 1002653
Ion Ratio Lower Upper
152 100
115 59.9 27.5 82.5
150 156.2 0.0 344.4

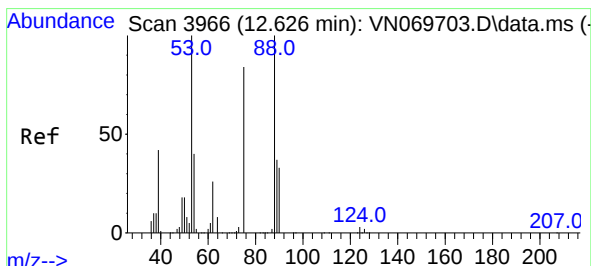
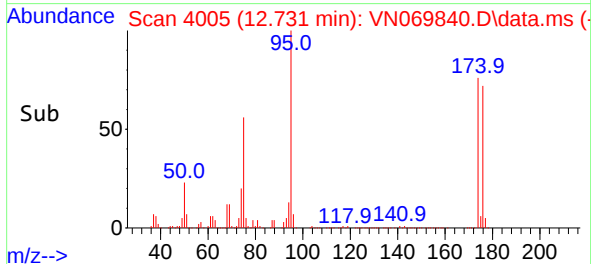
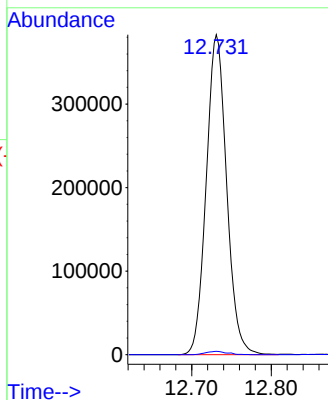
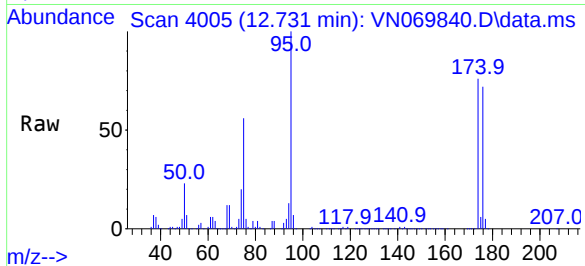




#76
1,2,3-Trichloropropane
Concen: 23.70 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

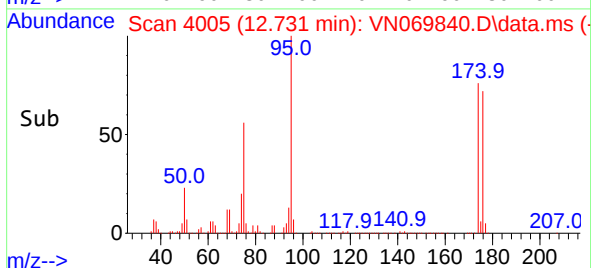
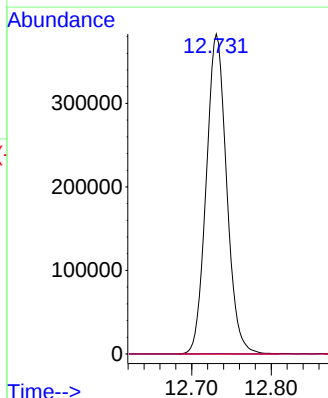
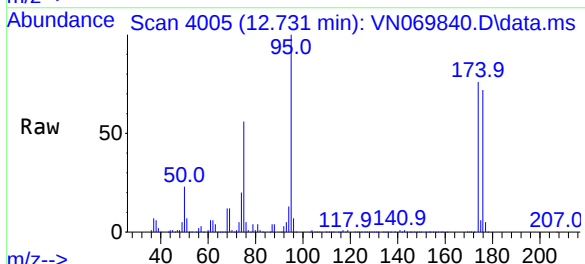
Instrument :
MSVOA_N
ClientSampleId :
RW4-20211206

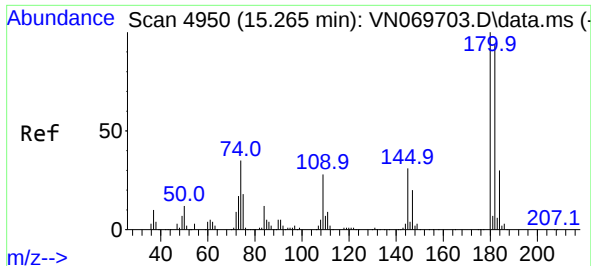
Tgt Ion: 75 Resp: 681391
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 75.32 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

Tgt Ion: 75 Resp: 681391
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#

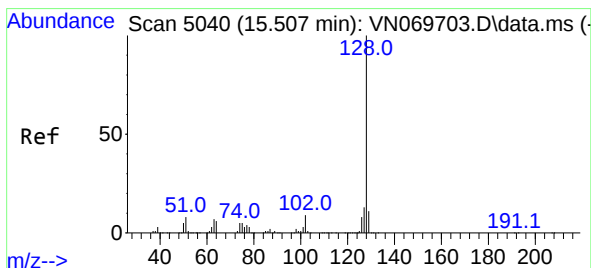
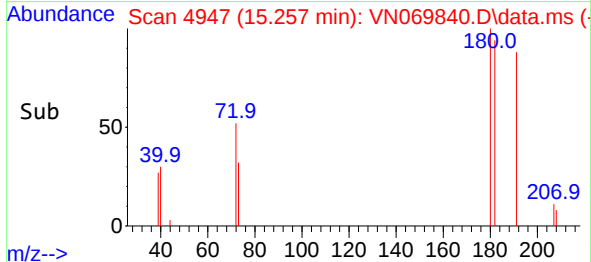
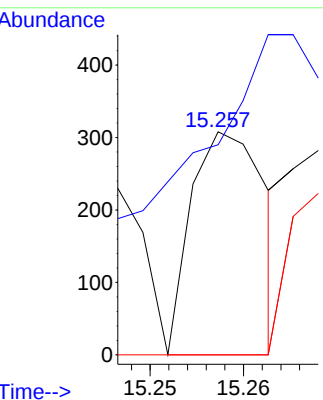
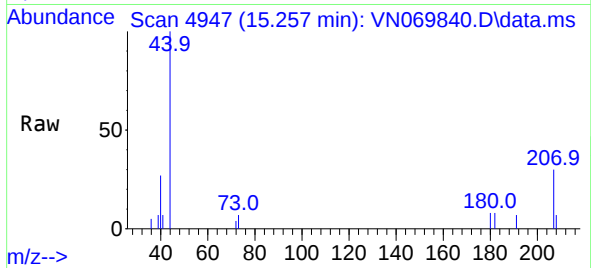




#93
1,2,4-Trichlorobenzene
Concen: 2.89 ug/l
RT: 15.257 min Scan# 4950
Delta R.T. -0.008 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

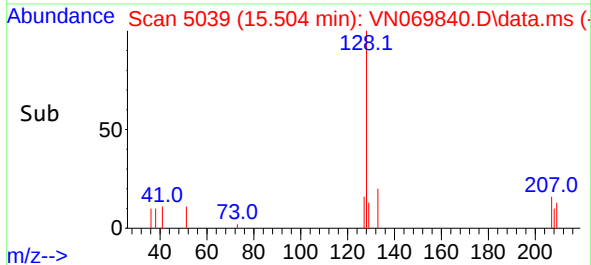
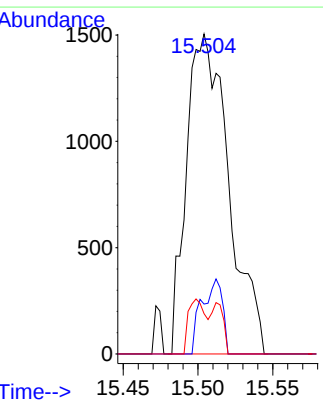
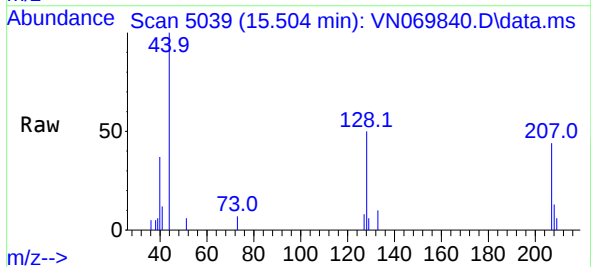
Instrument :
MSVOA_N
ClientSampleId :
RW4-20211206

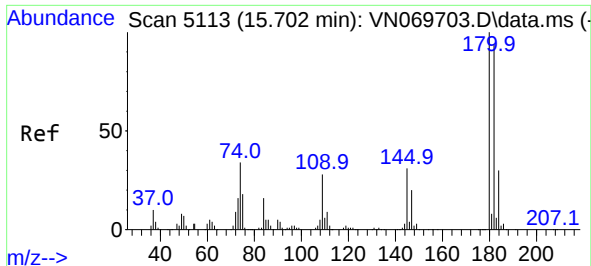
Tgt Ion:180 Resp: 171
Ion Ratio Lower Upper
180 100
182 345.0 48.3 144.9#
145 56.7 14.5 43.5#



#95
Naphthalene
Concen: 4.04 ug/l
RT: 15.504 min Scan# 5039
Delta R.T. -0.003 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

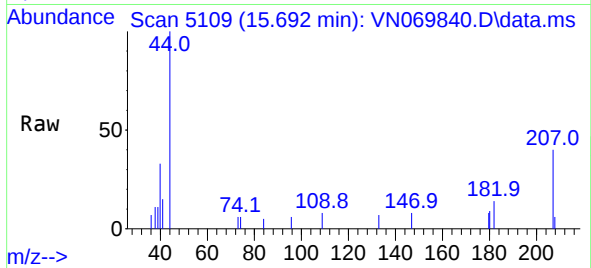
Tgt Ion:128 Resp: 2961
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 7.0 8.7 13.1#





#96
1,2,3-Trichlorobenzene
Concen: 2.48 ug/l
RT: 15.692 min Scan# 51
Delta R.T. -0.010 min
Lab File: VN069840.D
Acq: 8 Dec 2021 3:16

Instrument :
MSVOA_N
ClientSampleId :
RW4-20211206



Tgt Ion:180 Resp: 760
Ion Ratio Lower Upper
180 100
182 65.3 47.4 142.2
145 6.7 15.0 45.1#

