

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120321\
 Data File : VN069720.D
 Acq On : 3 Dec 2021 16:04
 Operator : JC/MD
 Sample : M4922-09
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D2-20211130

Quant Time: Dec 04 05:33:00 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)

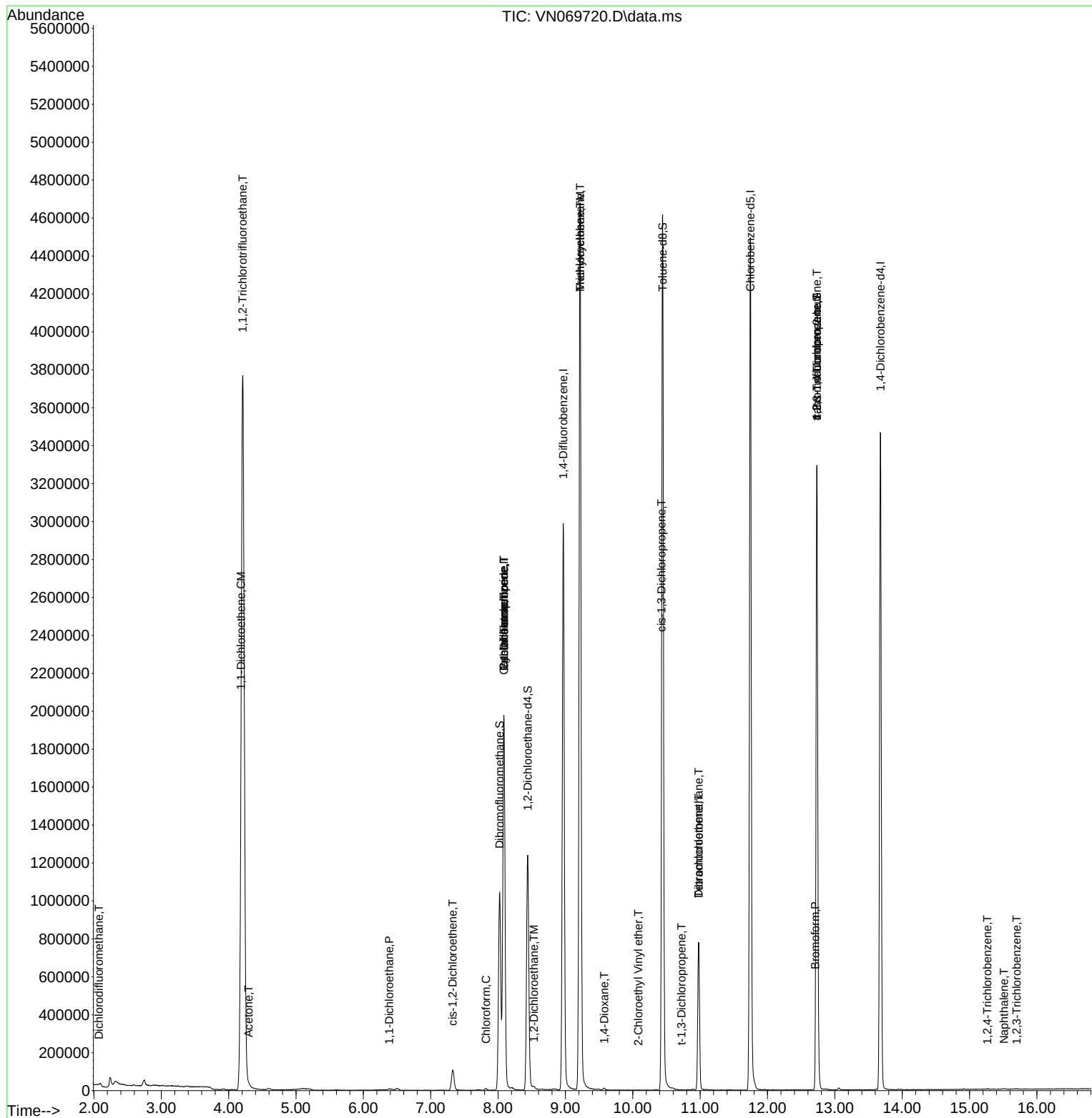
Internal Standards						
1) Pentafluorobenzene	8.085	168	1467825	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2533044	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	2531186	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	918741	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	1094606	48.299	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	96.600%		
35) Dibromofluoromethane	8.024	113	759971	47.898	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	95.800%		
50) Toluene-d8	10.443	98	3177922	49.882	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	99.760%		
62) 4-Bromofluorobenzene	12.733	95	1147433	49.715	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	99.420%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.075	85	4197	0.245	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.207	101	2497039	172.100	ug/l	96
12) 1,1-Dichloroethene	4.183	96	27404	1.960	ug/l	97
16) Acetone	4.296	43	13793	1.012	ug/l	93
24) 1,1-Dichloroethane	6.382	63	7624	0.239	ug/l #	95
27) cis-1,2-Dichloroethene	7.327	96	61177	3.334	ug/l	94
30) Chloroform	7.820	83	8330	0.259	ug/l	87
31) Cyclohexane	8.085	56	38387	1.217	ug/l #	23
36) 1,1-Dichloropropene	8.085	75	127649	5.294	ug/l #	49
38) Carbon Tetrachloride	8.088	117	152508	6.449	ug/l #	16
39) Methylcyclohexane	9.217	83	21679	0.756	ug/l #	1
42) 1,2-Dichloroethane	8.533	62	8289	0.279	ug/l	84
44) Trichloroethene	9.217	130	1630922	92.707	ug/l	92
49) 1,4-Dioxane	9.577	88	7866	17.687	ug/l #	80
53) t-1,3-Dichloropropene	10.722	75	132	2.798	ug/l	98
54) cis-1,3-Dichloropropene	10.427	75	92	2.002	ug/l #	1
58) 2-Chloroethyl Vinyl ether	10.084	63	25	18.391	ug/l #	45
60) Dibromochloromethane	10.977	129	170026	10.701	ug/l #	11
64) Tetrachloroethene	10.977	164	175280	10.213	ug/l	95
71) Bromoform	12.709	173	216	2.744	ug/l #	29
76) 1,2,3-Trichloropropane	12.733	75	644730	24.470	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.733	75	644730	77.645	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.262	180	833	2.930	ug/l #	82
95) Naphthalene	15.509	128	3506	4.057	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.700	180	879	2.492	ug/l	90

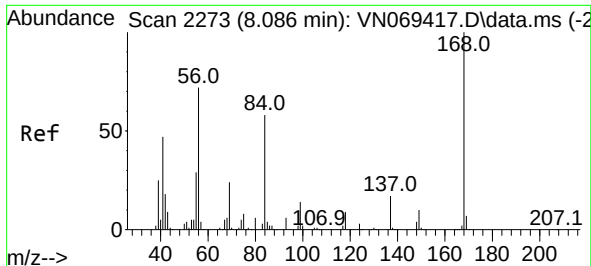
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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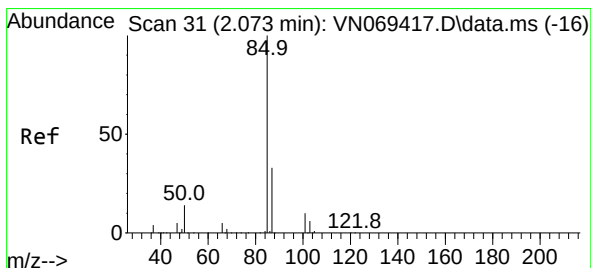
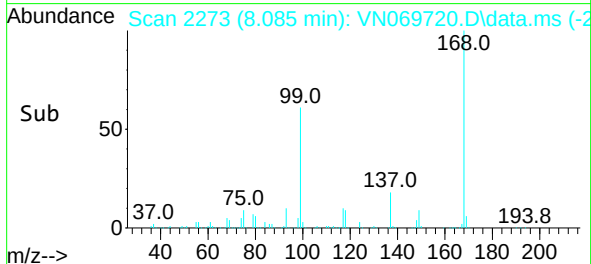
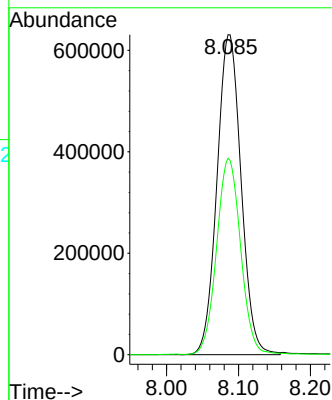
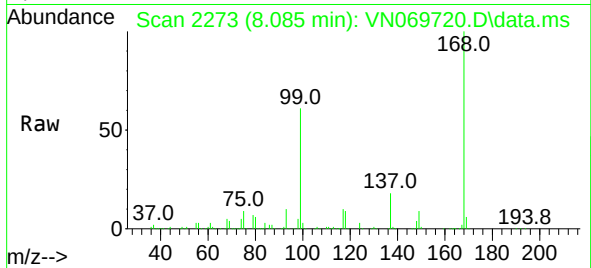




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.085 min Scan# 21
Delta R.T. -0.001 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

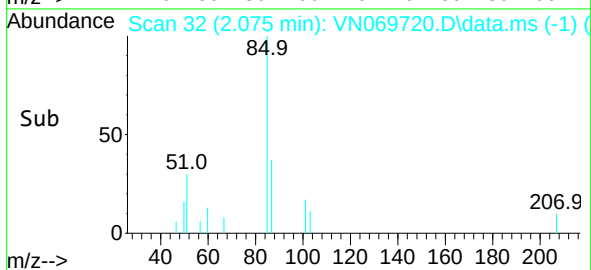
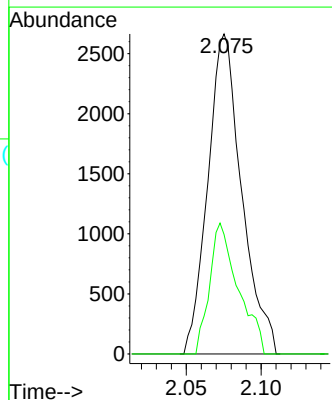
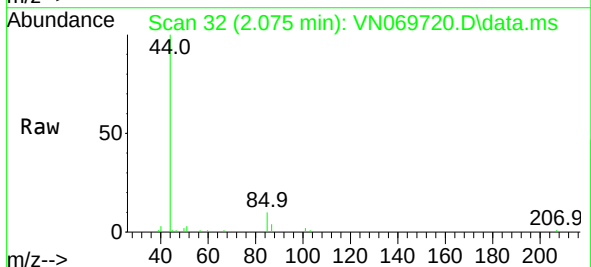
Instrument :
MSVOA_N
ClientSampleId :
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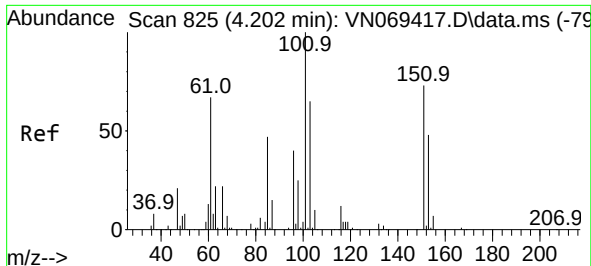
Tgt Ion:168 Resp: 1467825
Ion Ratio Lower Upper
168 100
99 61.2 41.3 61.9



#2
Dichlorodifluoromethane
Concen: 0.245 ug/l
RT: 2.075 min Scan# 32
Delta R.T. 0.003 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

Tgt Ion: 85 Resp: 4197
Ion Ratio Lower Upper
85 100
87 37.3 16.3 48.9

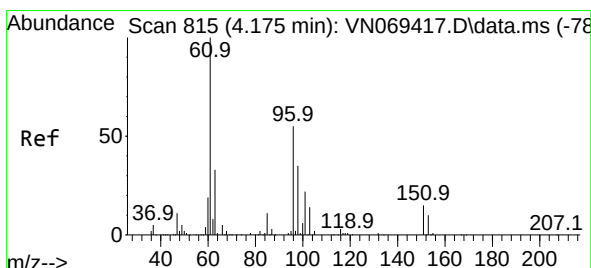
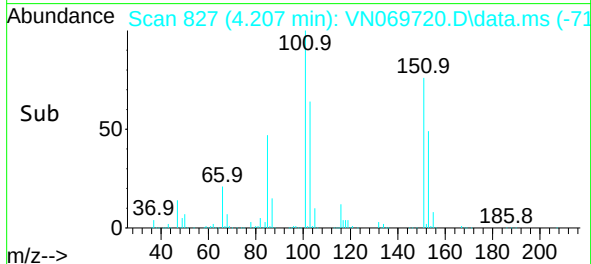
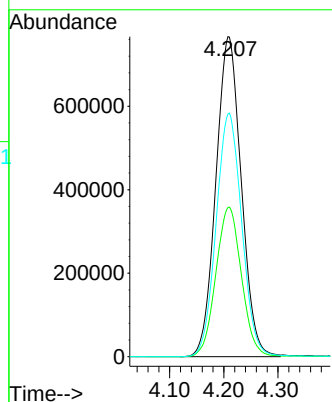
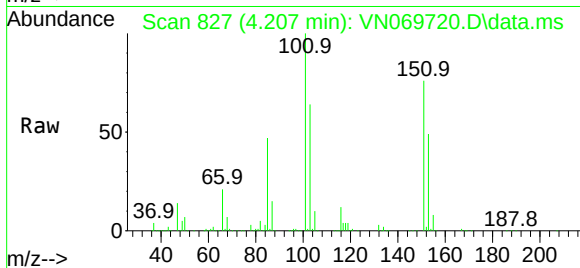




#9
1,1,2-Trichlorotrifluoroethane
Concen: 172.100 ug/l
RT: 4.207 min Scan# 81
Delta R.T. 0.005 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

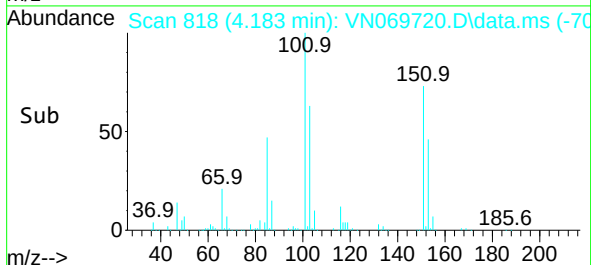
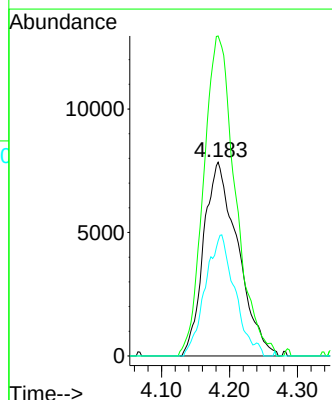
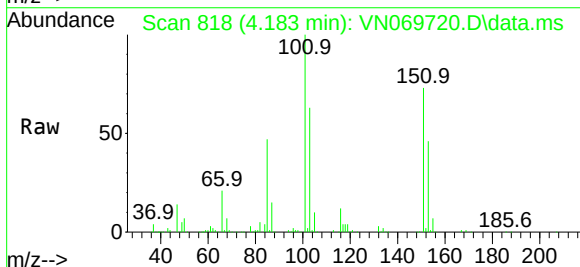
Instrument :
MSVOA_N
ClientSampleId :
RE131D2-20211130

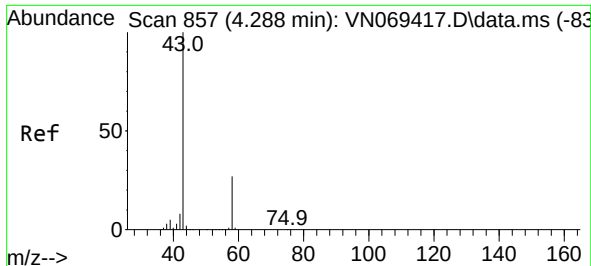
Tgt Ion:101 Resp: 2497039
Ion Ratio Lower Upper
101 100
85 47.2 37.2 55.8
151 77.0 65.9 98.9



#12
1,1-Dichloroethene
Concen: 1.960 ug/l
RT: 4.183 min Scan# 818
Delta R.T. 0.008 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

Tgt Ion: 96 Resp: 27404
Ion Ratio Lower Upper
96 100
61 165.2 131.0 196.6
98 59.4 52.4 78.6

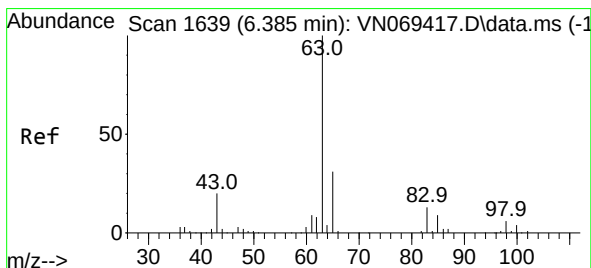
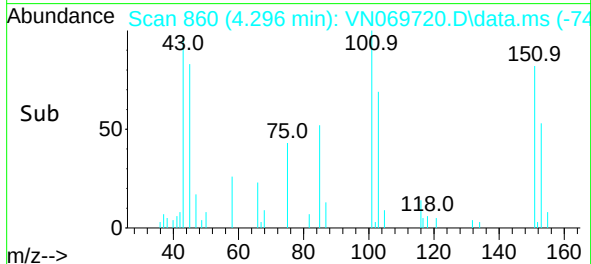
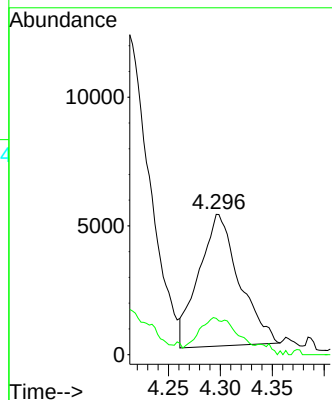
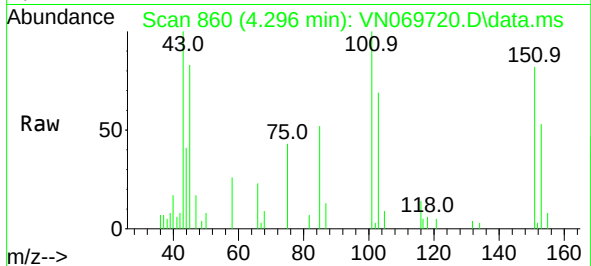




#16
Acetone
Concen: 1.012 ug/l
RT: 4.296 min Scan# 80
Delta R.T. 0.005 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

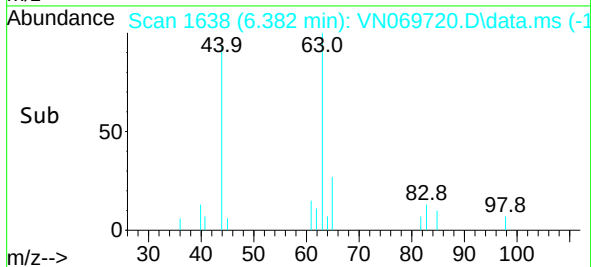
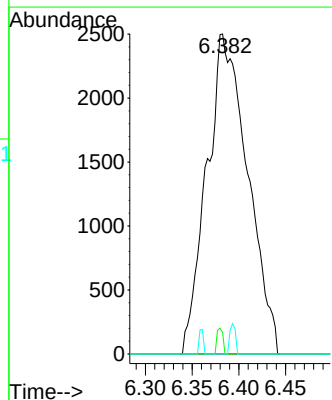
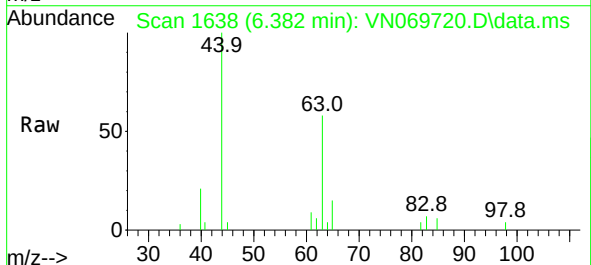
Instrument :
MSVOA_N
ClientSampleId :
RE131D2-20211130

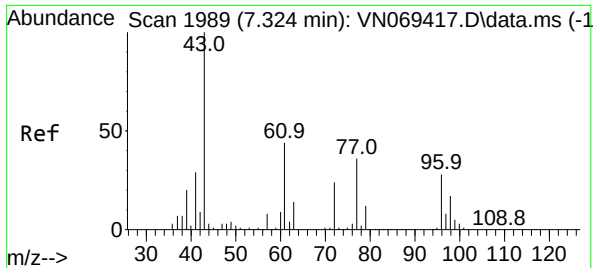
Tgt Ion: 43 Resp: 13793
Ion Ratio Lower Upper
43 100
58 25.1 23.1 34.7



#24
1,1-Dichloroethane
Concen: 0.239 ug/l
RT: 6.382 min Scan# 1638
Delta R.T. -0.005 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

Tgt Ion: 63 Resp: 7624
Ion Ratio Lower Upper
63 100
98 6.7 3.3 9.9
100 0.0 2.1 6.5#





#27

cis-1,2-Dichloroethene

Concen: 3.334 ug/l

RT: 7.327 min Scan# 1989

Delta R.T. 0.000 min

Lab File: VN069720.D

Acq: 3 Dec 2021 16:04

Instrument :

MSVOA_N

ClientSampleId :

RE131D2-20211130

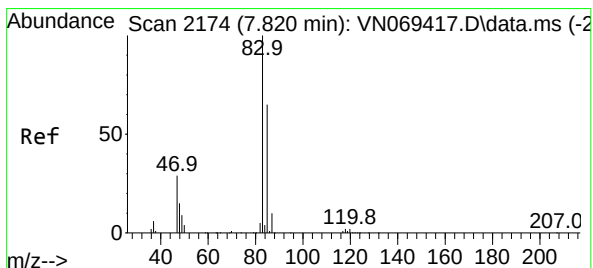
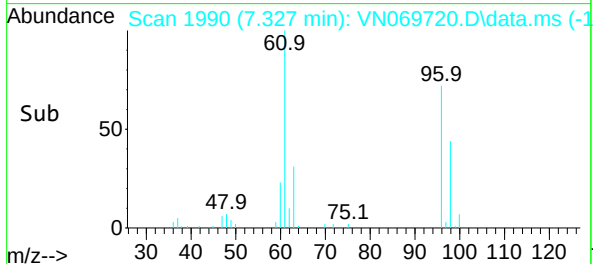
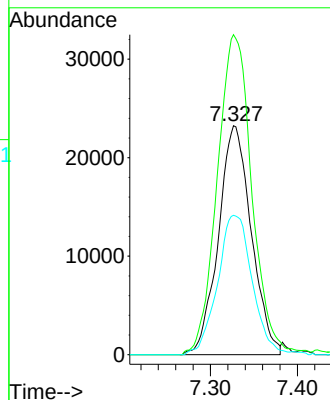
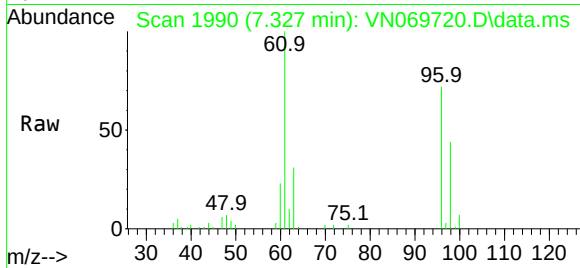
Tgt Ion: 96 Resp: 61177

Ion Ratio Lower Upper

96 100

61 147.2 0.0 275.0

98 63.8 0.0 129.6



#30

Chloroform

Concen: 0.259 ug/l

RT: 7.820 min Scan# 2174

Delta R.T. -0.000 min

Lab File: VN069720.D

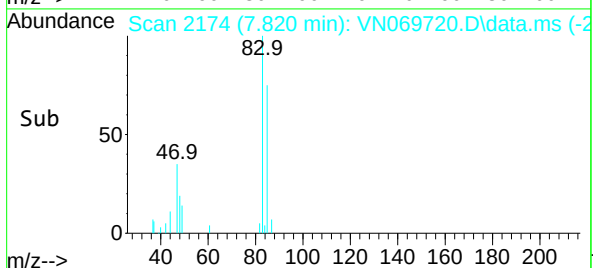
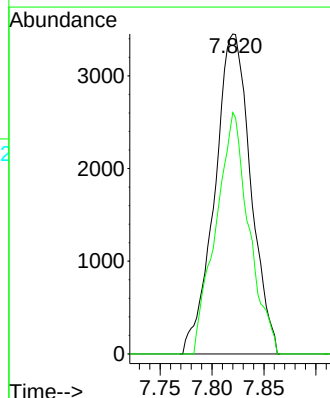
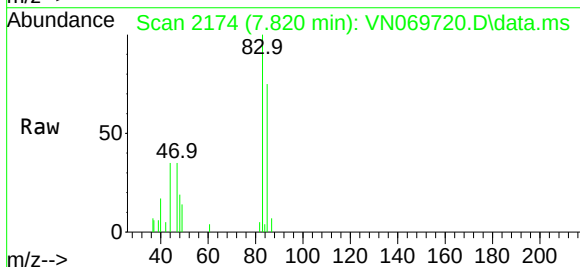
Acq: 3 Dec 2021 16:04

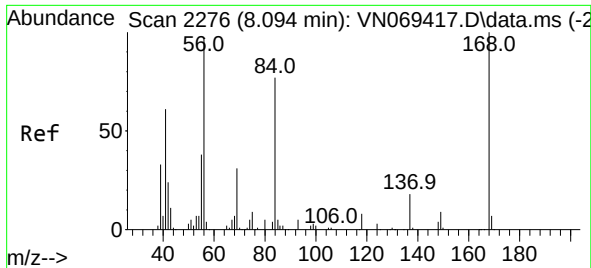
Tgt Ion: 83 Resp: 8330

Ion Ratio Lower Upper

83 100

85 75.4 51.9 77.9

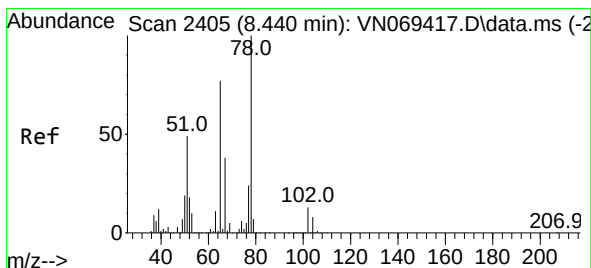
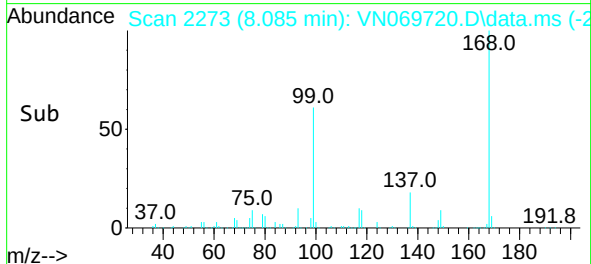
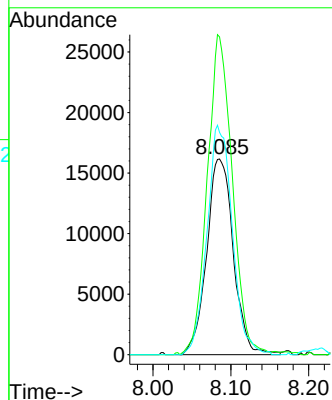
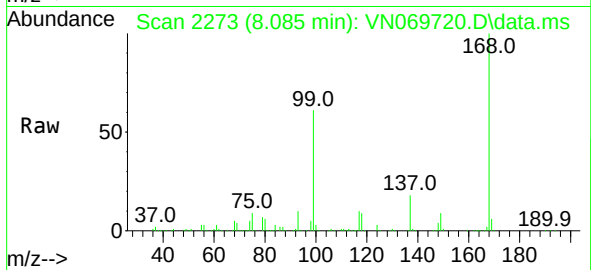




#31
Cyclohexane
Concen: 1.217 ug/l
RT: 8.085 min Scan# 211
Delta R.T. -0.008 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

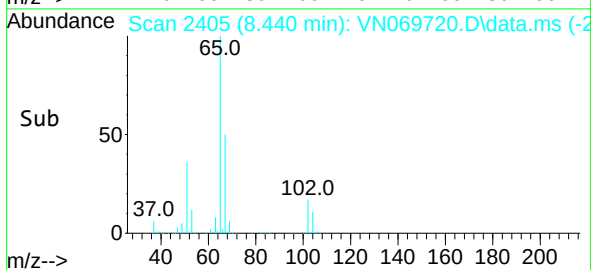
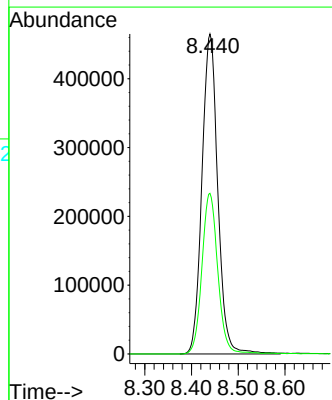
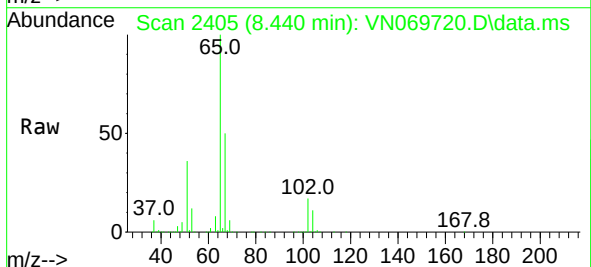
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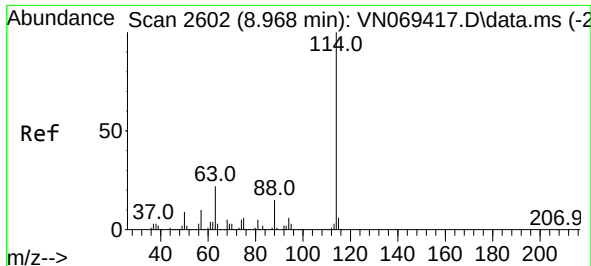
Tgt Ion: 56 Resp: 38387
Ion Ratio Lower Upper
56 100
69 162.4 27.1 40.7#
84 113.5 73.4 110.0#



#33
1,2-Dichloroethane-d4
Concen: 48.299 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

Tgt Ion: 65 Resp: 1094606
Ion Ratio Lower Upper
65 100
67 49.8 0.0 103.0

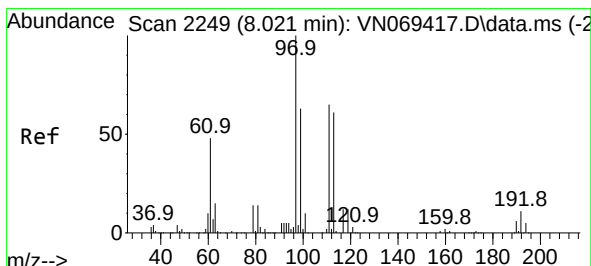
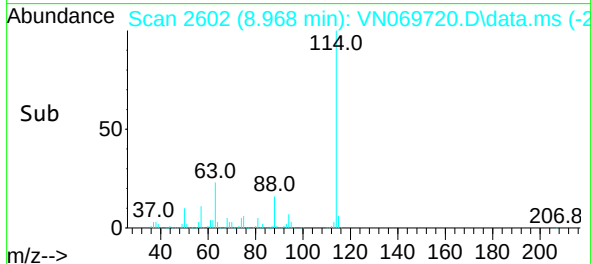
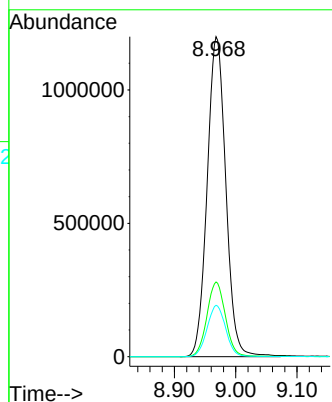
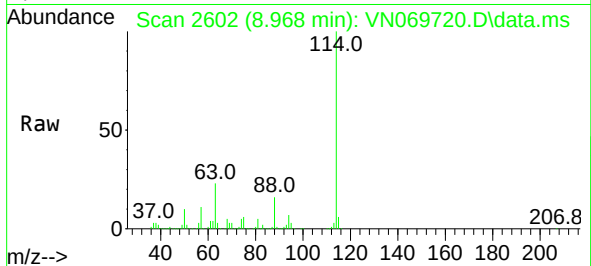




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

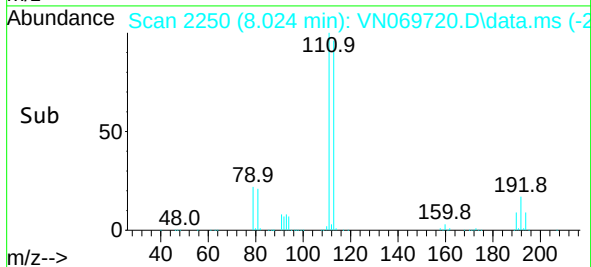
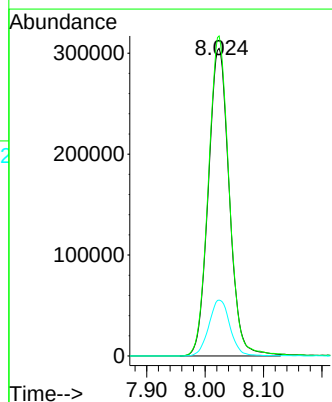
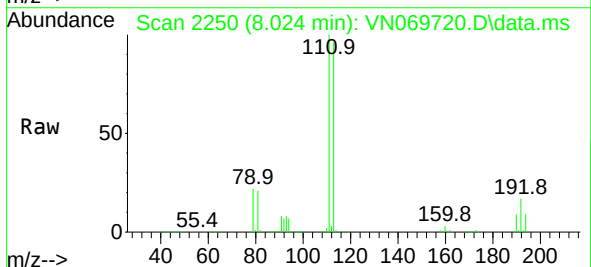
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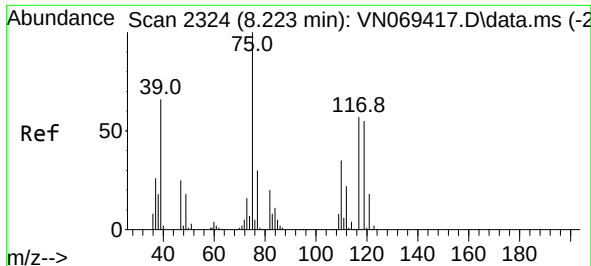
Tgt Ion:114 Resp: 2533044
Ion Ratio Lower Upper
114 100
63 23.4 0.0 37.8
88 16.1 0.0 27.4



#35
Dibromofluoromethane
Concen: 47.898 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. -0.000 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

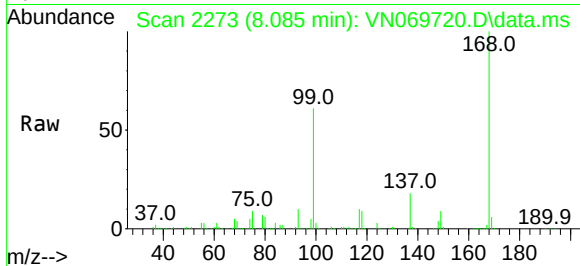
Tgt Ion:113 Resp: 759971
Ion Ratio Lower Upper
113 100
111 102.9 82.2 123.2
192 18.4 16.9 25.3



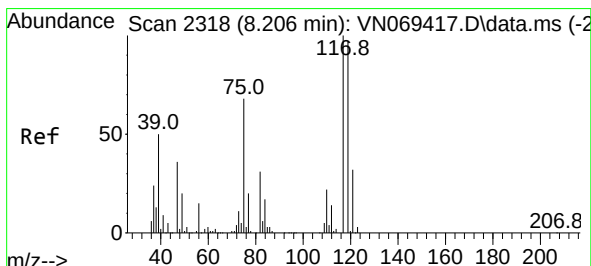
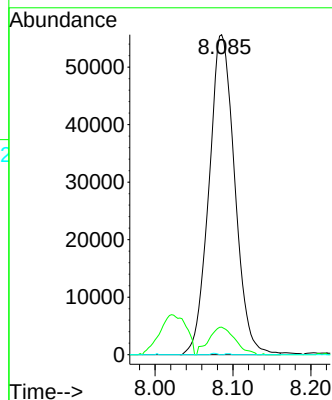
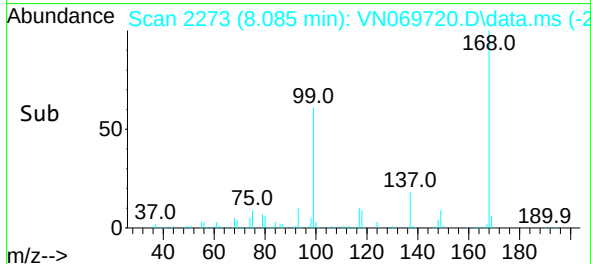


#36
 1,1-Dichloropropene
 Concen: 5.294 ug/l
 RT: 8.085 min Scan# 211
 Delta R.T. -0.137 min
 Lab File: VN069720.D
 Acq: 3 Dec 2021 16:04

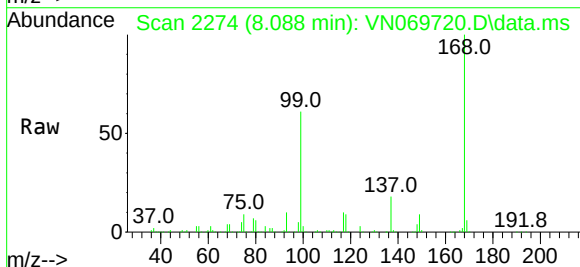
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 RE131D2-20211130



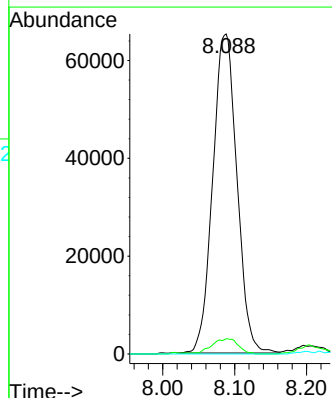
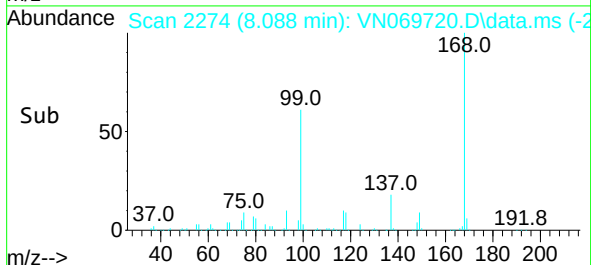
Tgt Ion: 75 Resp: 127649
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.4 55.2#
 77 0.1 24.4 36.6#

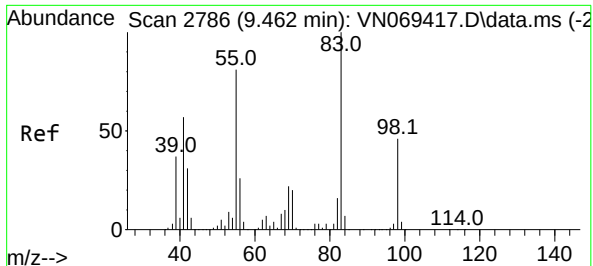


#38
 Carbon Tetrachloride
 Concen: 6.449 ug/l
 RT: 8.088 min Scan# 2274
 Delta R.T. -0.118 min
 Lab File: VN069720.D
 Acq: 3 Dec 2021 16:04



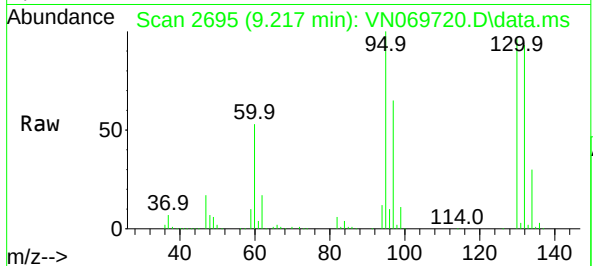
Tgt Ion: 117 Resp: 152508
 Ion Ratio Lower Upper
 117 100
 119 4.5 76.1 114.1#
 121 0.0 24.2 36.2#



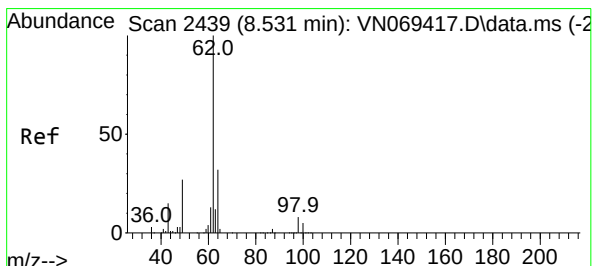
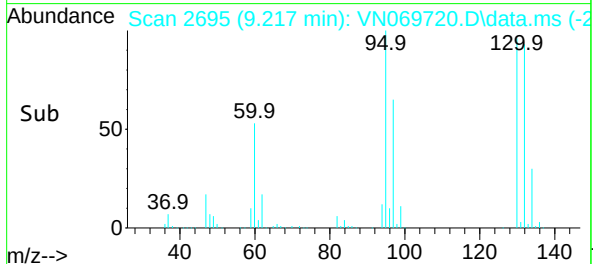
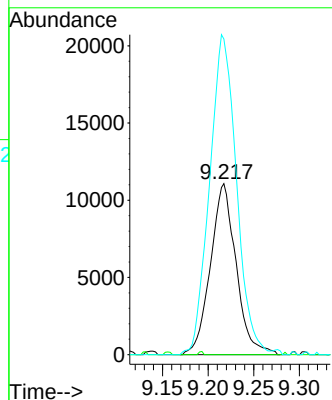


#39
Methylcyclohexane
Concen: 0.756 ug/l
RT: 9.217 min Scan# 21679
Delta R.T. -0.244 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

Instrument :
MSVOA_N
ClientSampleId :
RE131D2-20211130

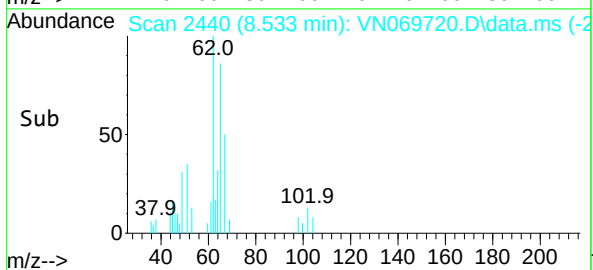
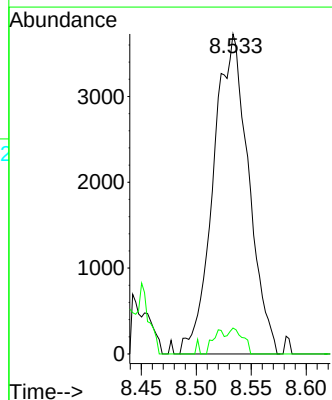
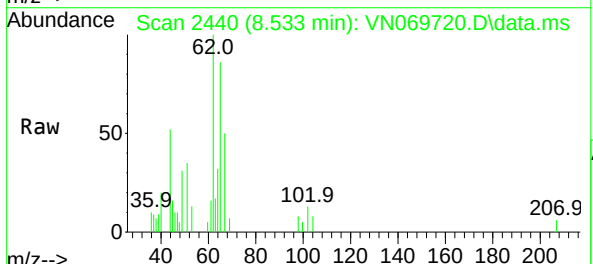


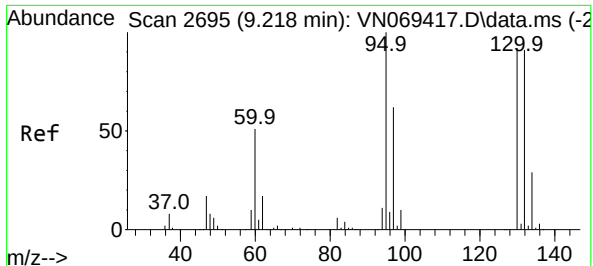
Tgt Ion: 83 Resp: 21679
Ion Ratio Lower Upper
83 100
55 0.0 58.1 87.1#
98 182.4 38.4 57.6#



#42
1,2-Dichloroethane
Concen: 0.279 ug/l
RT: 8.533 min Scan# 2440
Delta R.T. 0.003 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

Tgt Ion: 62 Resp: 8289
Ion Ratio Lower Upper
62 100
98 3.1 0.0 17.6

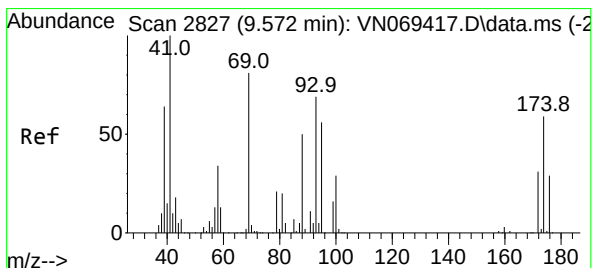
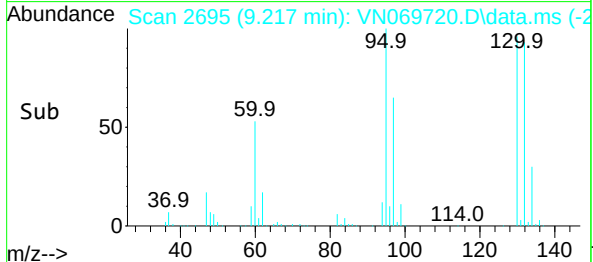
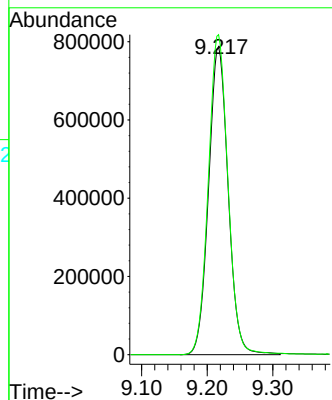
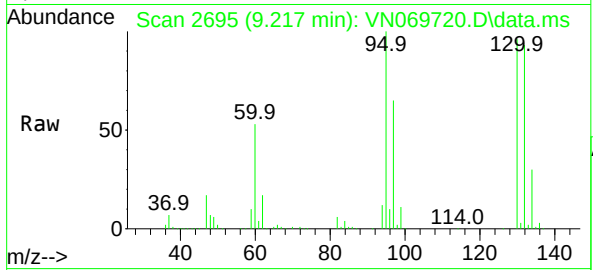




#44
Trichloroethene
Concen: 92.707 ug/l
RT: 9.217 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

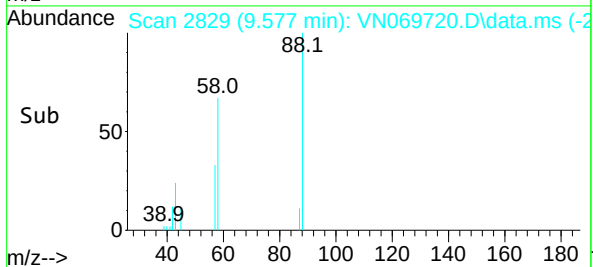
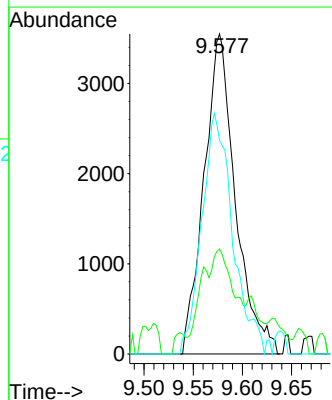
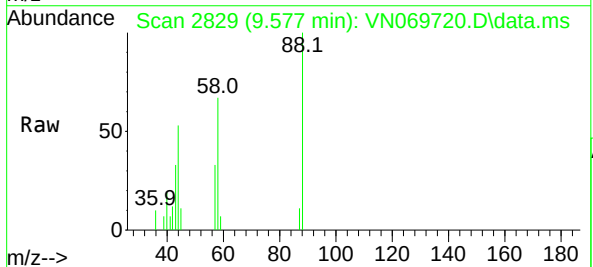
Instrument :
MSVOA_N
ClientSampleId :
RE131D2-20211130

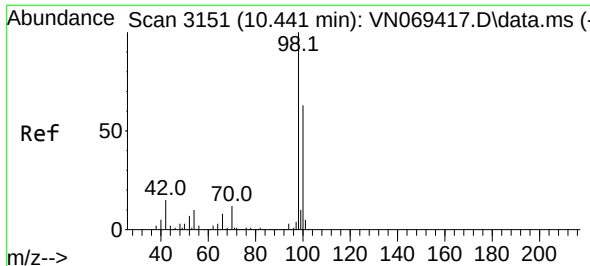
Tgt Ion:130 Resp: 1630922
Ion Ratio Lower Upper
130 100
95 103.9 0.0 191.2



#49
1,4-Dioxane
Concen: 17.687 ug/l
RT: 9.577 min Scan# 2829
Delta R.T. 0.005 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

Tgt Ion: 88 Resp: 7866
Ion Ratio Lower Upper
88 100
43 11.3 23.4 35.2#
58 74.0 50.6 75.8

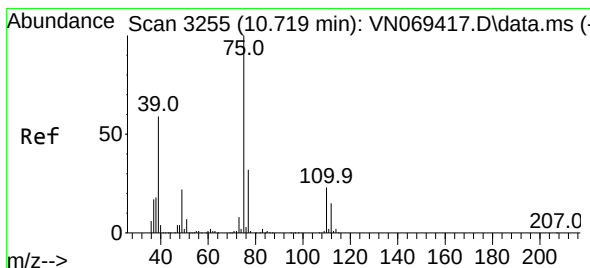
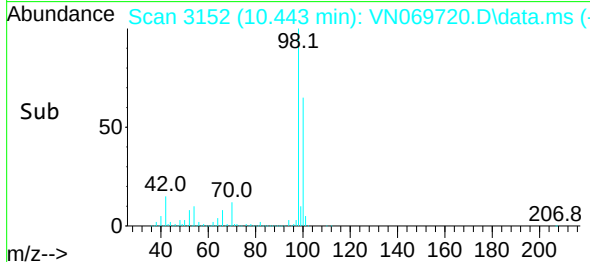
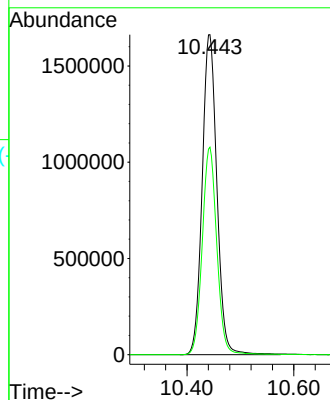
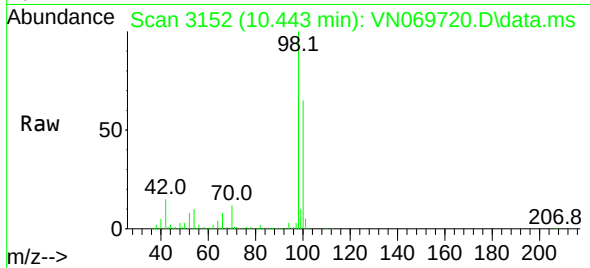




#50
Toluene-d8
Concen: 49.882 ug/l
RT: 10.443 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

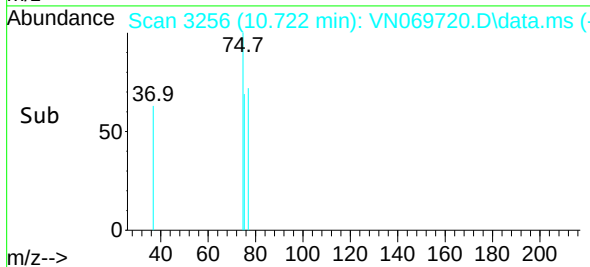
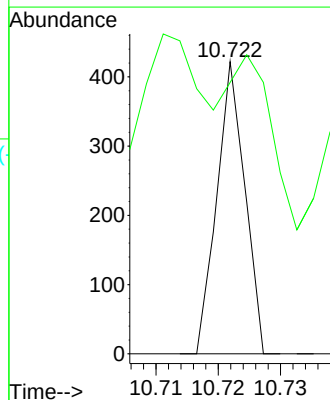
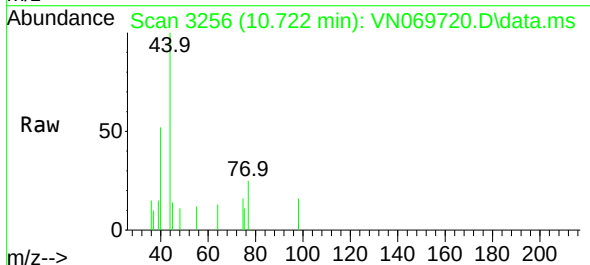
Instrument :
MSVOA_N
ClientSampleId :
RE131D2-20211130

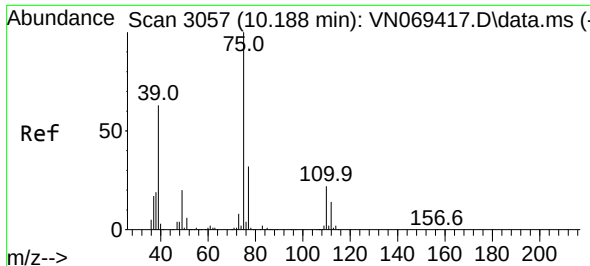
Tgt Ion: 98 Resp: 3177922
Ion Ratio Lower Upper
98 100
100 64.0 50.4 75.6



#53
t-1,3-Dichloropropene
Concen: 2.798 ug/l
RT: 10.722 min Scan# 3256
Delta R.T. 0.003 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

Tgt Ion: 75 Resp: 132
Ion Ratio Lower Upper
75 100
77 30.8 25.6 38.4

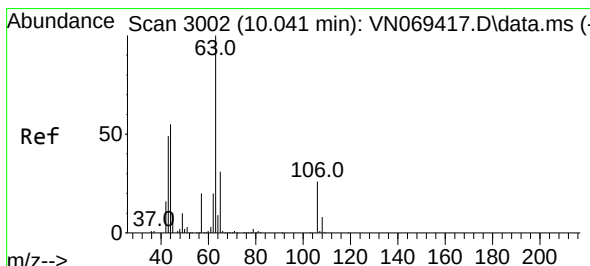
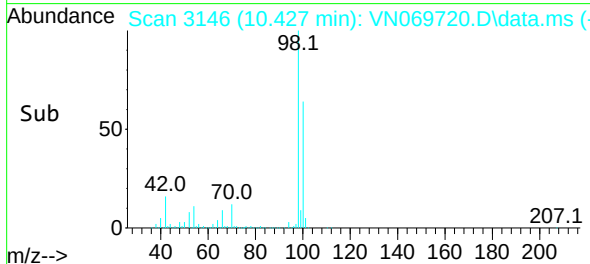
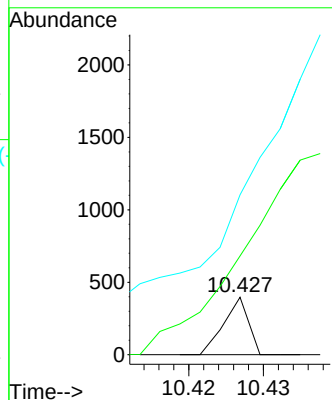
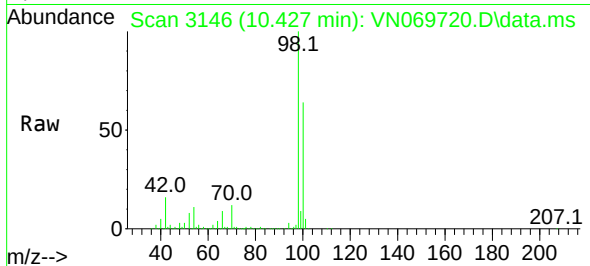




#54
 cis-1,3-Dichloropropene
 Concen: 2.002 ug/l
 RT: 10.427 min Scan# 3146
 Delta R.T. 0.236 min
 Lab File: VN069720.D
 Acq: 3 Dec 2021 16:04

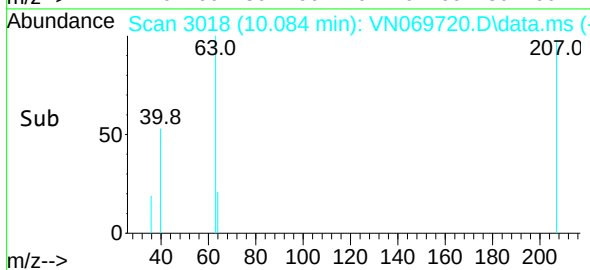
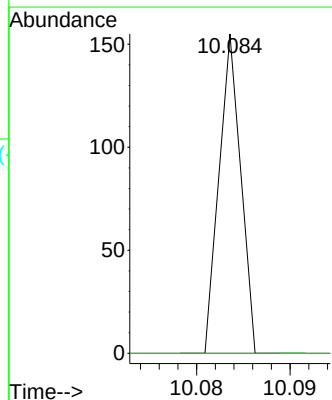
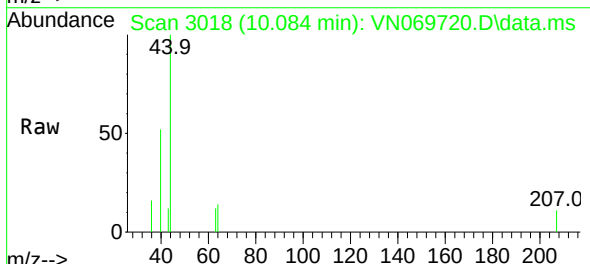
Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D2-20211130

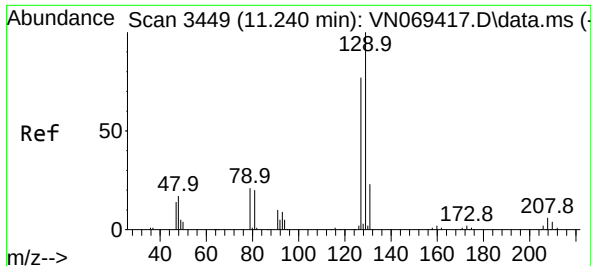
Tgt Ion: 75 Resp: 92
 Ion Ratio Lower Upper
 75 100
 77 118.4 26.4 39.6#
 39 136.0 42.5 63.7#



#58
 2-Chloroethyl Vinyl ether
 Concen: 18.391 ug/l
 RT: 10.084 min Scan# 3018
 Delta R.T. 0.041 min
 Lab File: VN069720.D
 Acq: 3 Dec 2021 16:04

Tgt Ion: 63 Resp: 25
 Ion Ratio Lower Upper
 63 100
 106 0.0 23.9 35.9#

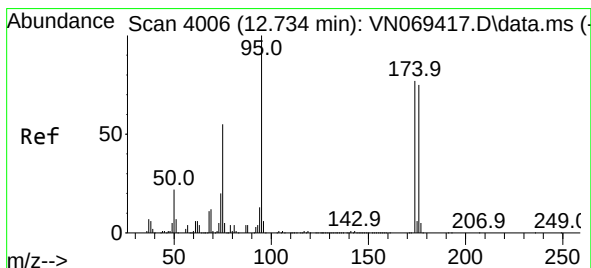
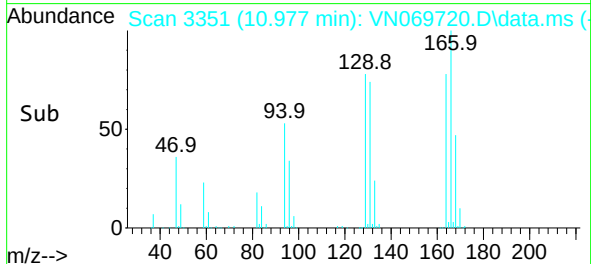
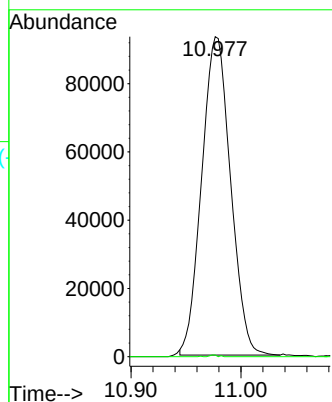
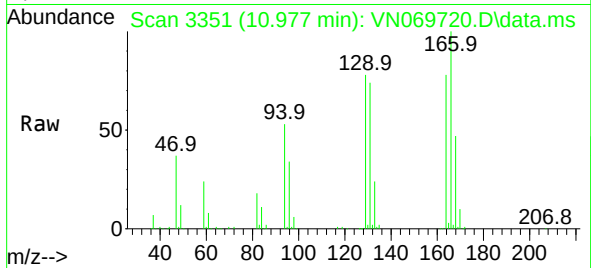




#60
Dibromochloromethane
Concen: 10.701 ug/l
RT: 10.977 min Scan# 31
Delta R.T. -0.263 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

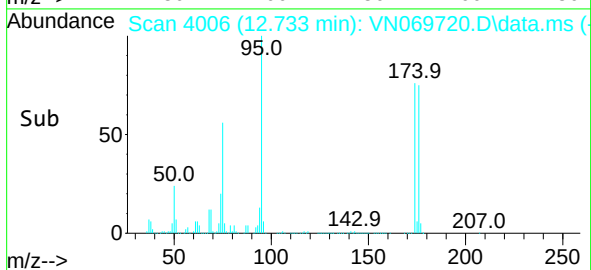
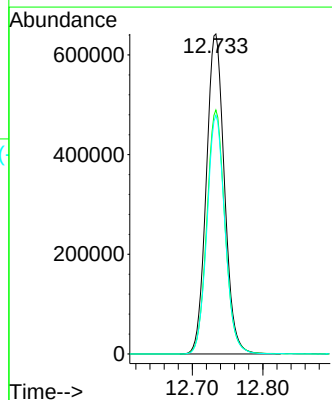
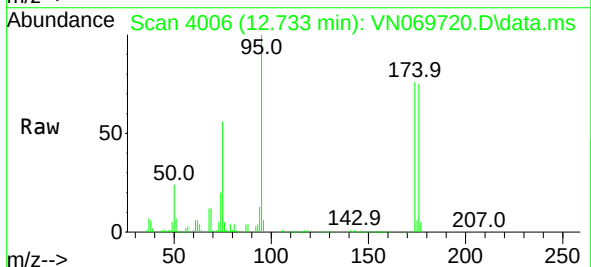
Instrument :
MSVOA_N
ClientSampleId :
RE131D2-20211130

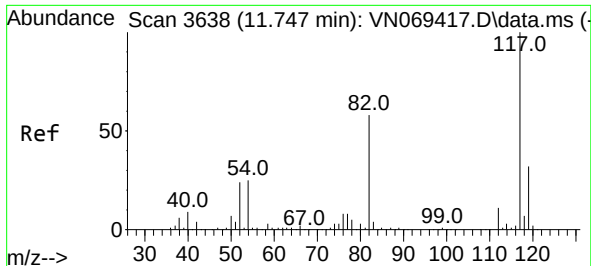
Tgt Ion:129 Resp: 170026
Ion Ratio Lower Upper
129 100
127 0.1 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 49.715 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.002 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

Tgt Ion: 95 Resp: 1147433
Ion Ratio Lower Upper
95 100
174 76.2 0.0 187.2
176 73.9 0.0 181.4

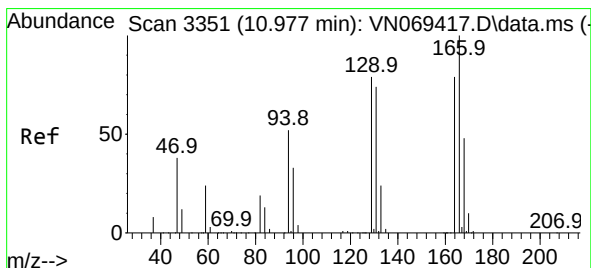
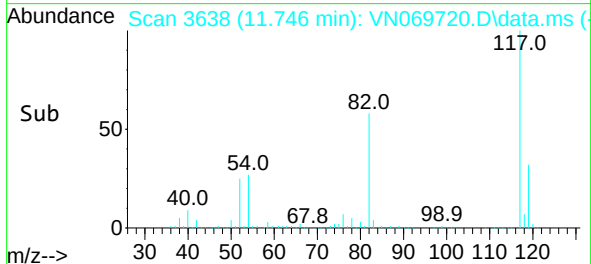
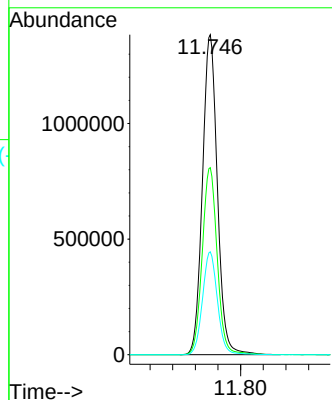
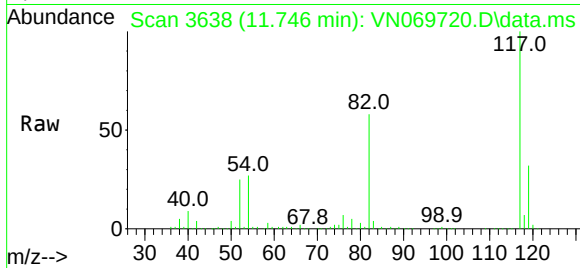




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.746 min Scan# 30
Delta R.T. 0.000 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

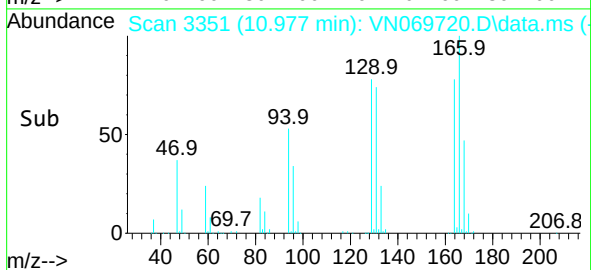
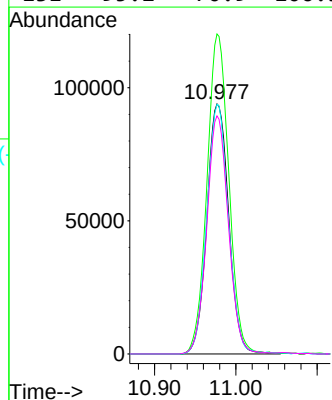
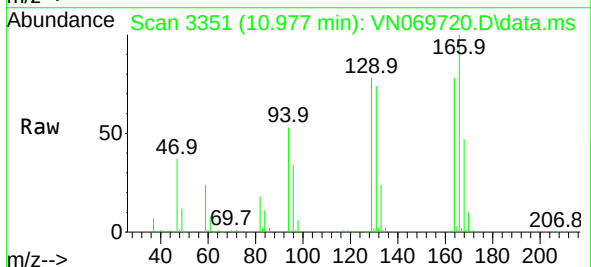
Instrument :
MSVOA_N
ClientSampleId :
RE131D2-20211130

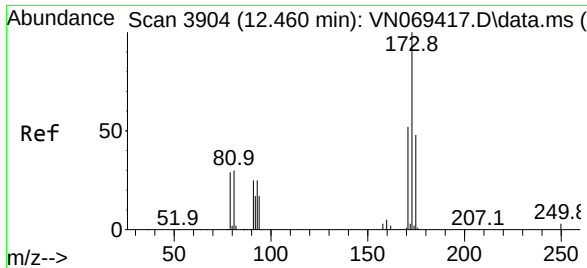
Tgt Ion:117 Resp: 2531186
Ion Ratio Lower Upper
117 100
82 58.5 42.4 63.6
119 32.2 25.4 38.2



#64
Tetrachloroethene
Concen: 10.213 ug/l
RT: 10.977 min Scan# 3351
Delta R.T. -0.002 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

Tgt Ion:164 Resp: 175280
Ion Ratio Lower Upper
164 100
166 127.9 101.9 152.9
129 99.8 72.0 108.0
131 95.2 70.9 106.3

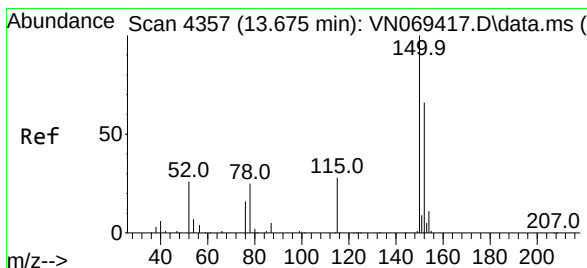
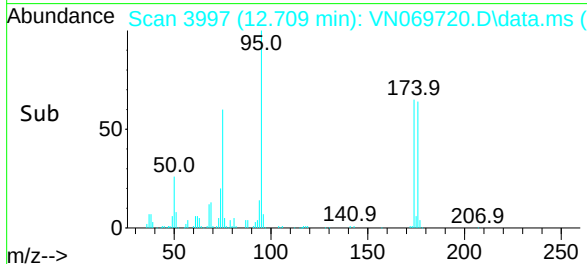
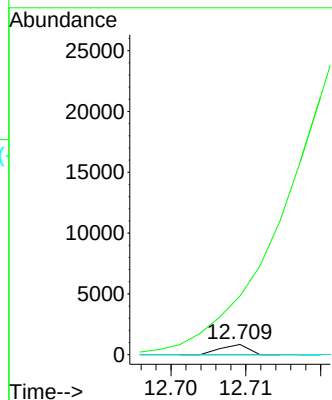
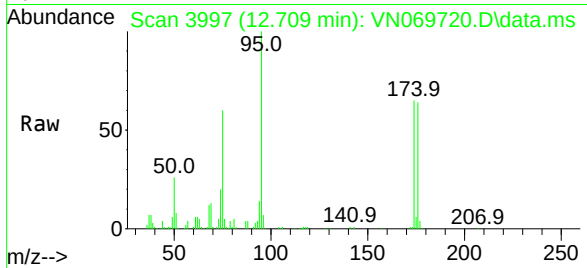




#71
Bromoform
Concen: 2.744 ug/l
RT: 12.709 min Scan# 3904
Delta R.T. 0.249 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

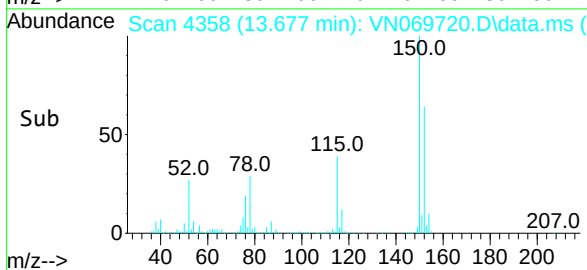
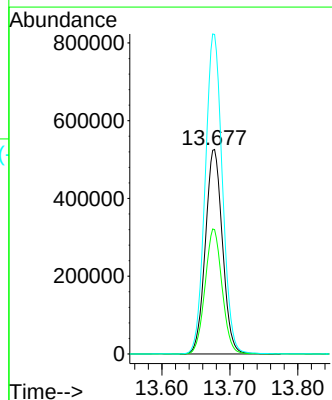
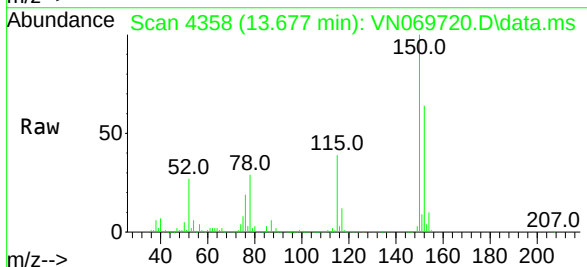
Instrument :
MSVOA_N
ClientSampleId :
RE131D2-20211130

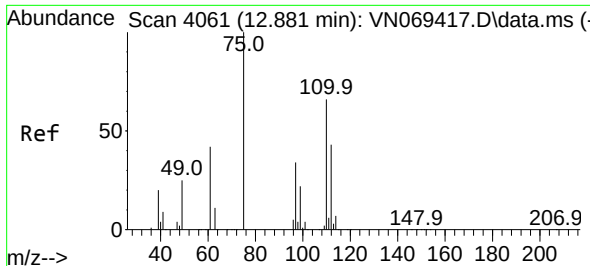
Tgt Ion:173 Resp: 216
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.677 min Scan# 4358
Delta R.T. 0.000 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

Tgt Ion:152 Resp: 918741
Ion Ratio Lower Upper
152 100
115 60.7 27.5 82.5
150 157.9 0.0 344.4

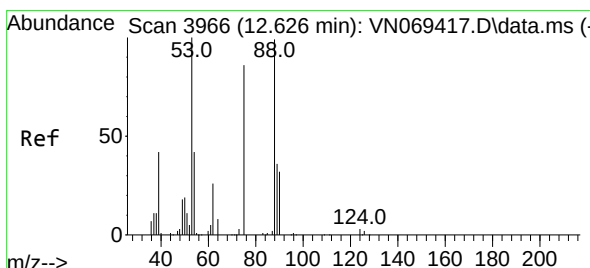
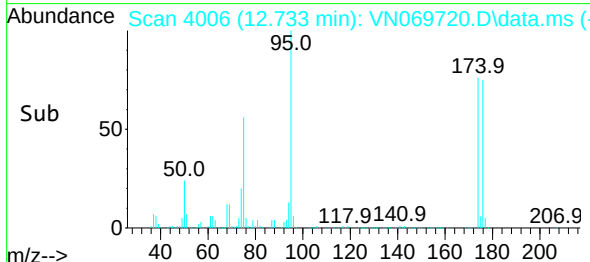
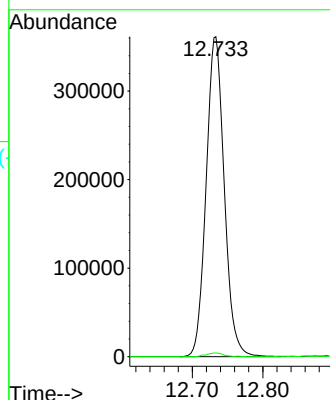
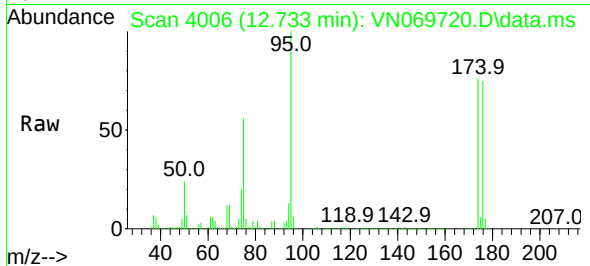




#76
1,2,3-Trichloropropane
Concen: 24.470 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

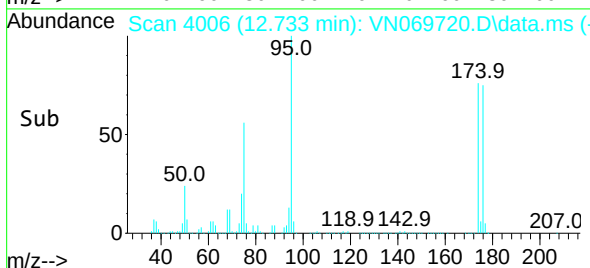
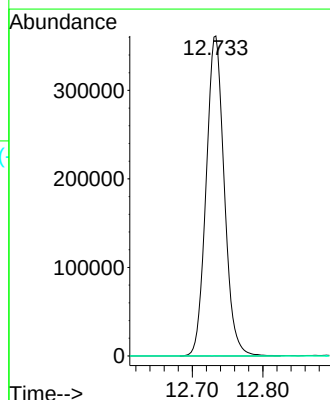
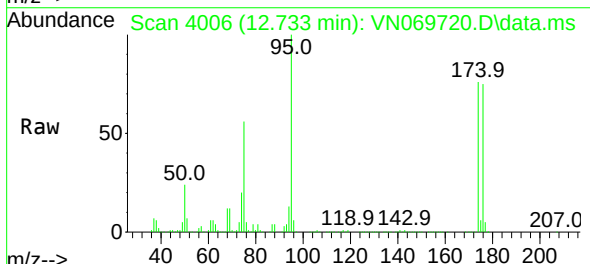
Instrument :
MSVOA_N
ClientSampleId :
RE131D2-20211130

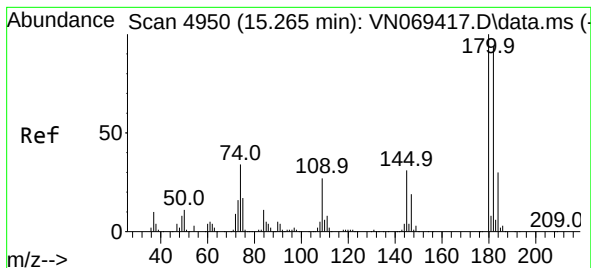
Tgt Ion: 75 Resp: 644730
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 77.645 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN069720.D
Acq: 3 Dec 2021 16:04

Tgt Ion: 75 Resp: 644730
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#





#93

1,2,4-Trichlorobenzene

Concen: 2.930 ug/l

RT: 15.262 min Scan# 4950

Delta R.T. -0.003 min

Lab File: VN069720.D

Acq: 3 Dec 2021 16:04

Instrument :

MSVOA_N

ClientSampleId :

RE131D2-20211130

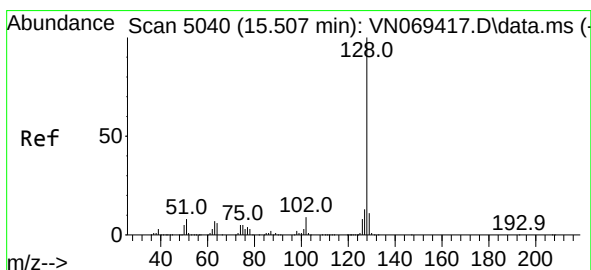
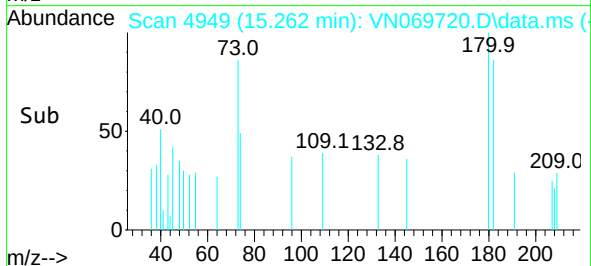
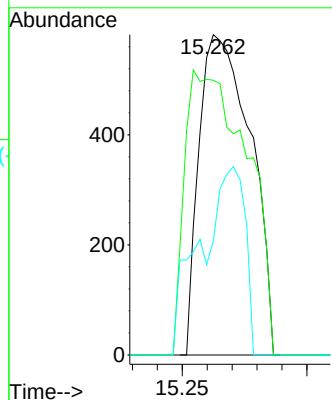
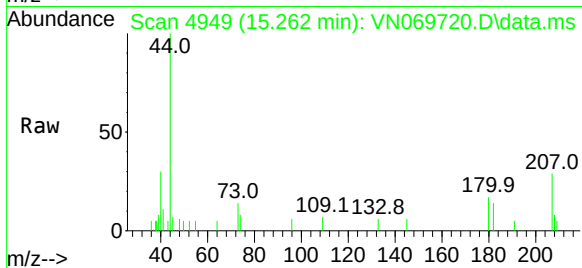
Tgt Ion:180 Resp: 833

Ion Ratio Lower Upper

180 100

182 107.4 48.3 144.9

145 51.0 14.5 43.5#



#95

Naphthalene

Concen: 4.057 ug/l

RT: 15.509 min Scan# 5041

Delta R.T. 0.002 min

Lab File: VN069720.D

Acq: 3 Dec 2021 16:04

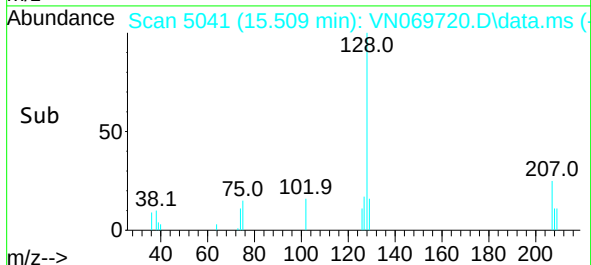
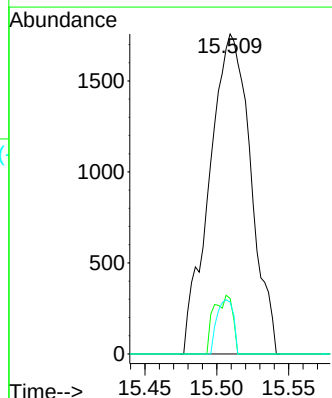
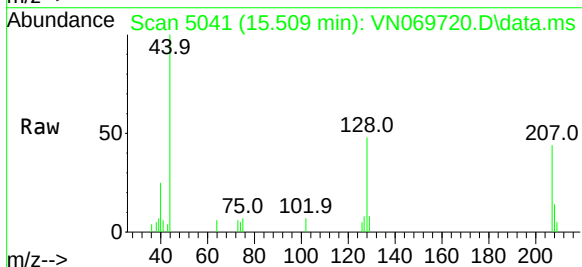
Tgt Ion:128 Resp: 3506

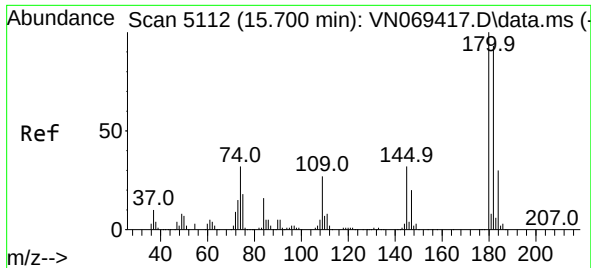
Ion Ratio Lower Upper

128 100

127 8.4 10.5 15.7#

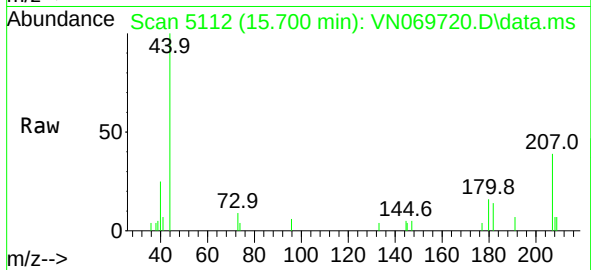
129 6.7 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.492 ug/l
 RT: 15.700 min Scan# 51
 Delta R.T. -0.002 min
 Lab File: VN069720.D
 Acq: 3 Dec 2021 16:04

Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D2-20211130



Tgt Ion:	180	Resp:	879
Ion	Ratio	Lower	Upper
180	100		
182	105.9	47.4	142.2
145	32.9	15.0	45.1

