

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120721\
 Data File : VN069838.D
 Acq On : 8 Dec 2021 2:25
 Operator : JC/MD
 Sample : M4957-04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW179D2-20211206

Quant Time: Dec 08 06:37:27 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)

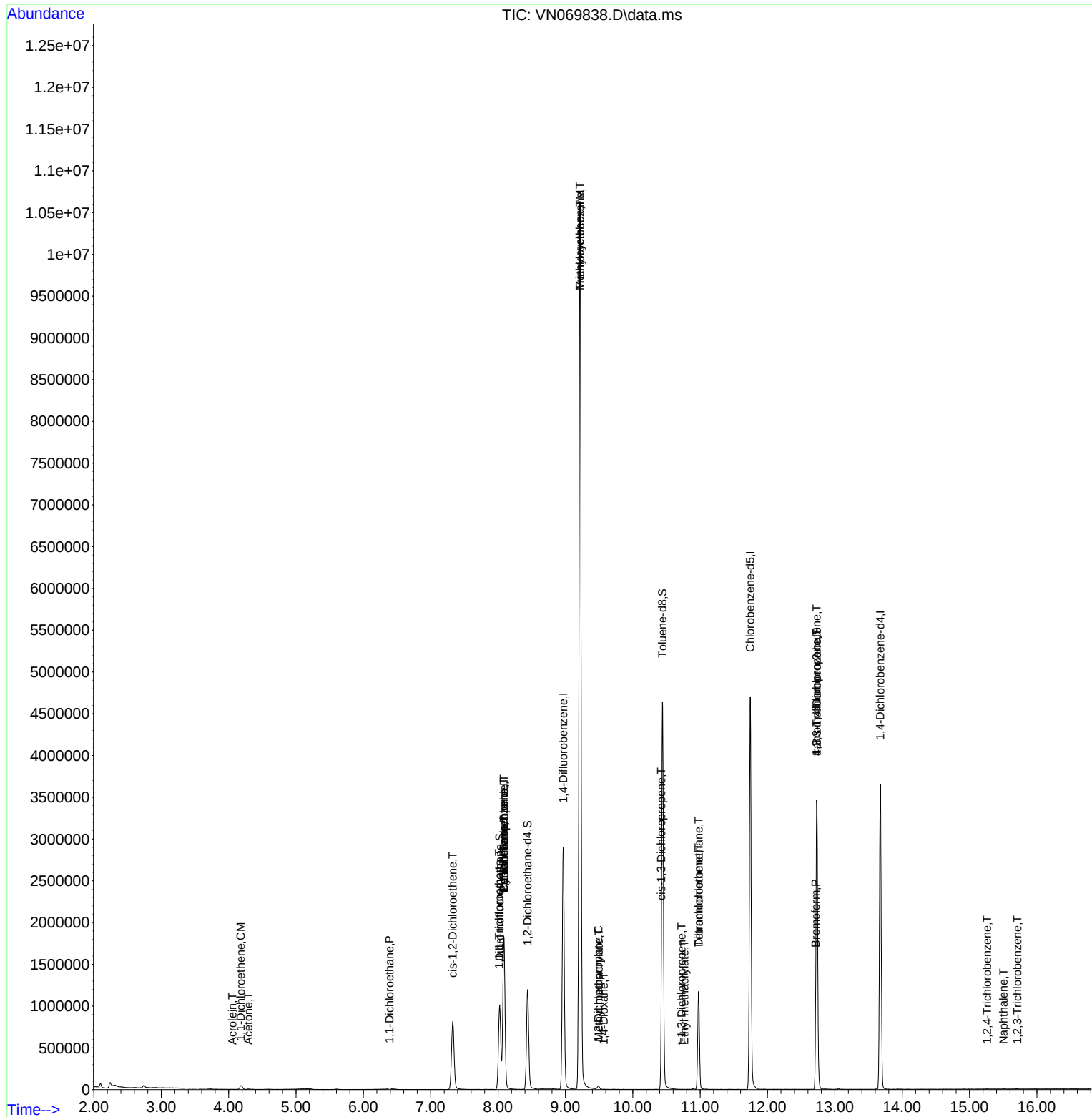
Internal Standards						
1) Pentafluorobenzene	8.086	168	1366000	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2446557	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2625201	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	985951	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	1036966	49.17	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	98.34%		
35) Dibromofluoromethane	8.024	113	726878	47.43	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	94.86%		
50) Toluene-d8	10.440	98	3173398	51.57	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	103.14%		
62) 4-Bromofluorobenzene	12.731	95	1219766	54.72	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	109.44%		
Target Compounds					Qvalue	
12) 1,1-Dichloroethene	4.181	96	25324	1.95	ug/l	95
13) Acrolein	4.055	56	720	0.21	ug/l #	75
16) Acetone	4.293	43	2700	0.21	ug/l	94
24) 1,1-Dichloroethane	6.388	63	19561	0.66	ug/l	95
27) cis-1,2-Dichloroethene	7.327	96	476747	27.92	ug/l	96
31) Cyclohexane	8.086	56	34214	1.17	ug/l #	27
32) 1,1,1-Trichloroethane	8.016	97	11373	0.45	ug/l #	51
36) 1,1-Dichloropropene	8.086	75	118440	5.09	ug/l #	49
38) Carbon Tetrachloride	8.088	117	137525	6.02	ug/l #	16
39) Methylcyclohexane	9.215	83	46740	1.69	ug/l #	1
44) Trichloroethene	9.215	130	3723201	219.12	ug/l	91
45) 1,2-Dichloropropane	9.488	63	12149	0.64	ug/l	92
48) Methyl methacrylate	9.496	41	10271	0.43	ug/l #	46
49) 1,4-Dioxane	9.569	88	352	0.82	ug/l #	54
53) t-1,3-Dichloropropene	10.725	75	81	2.80	ug/l	93
54) cis-1,3-Dichloropropene	10.424	75	339	2.01	ug/l #	1
56) Ethyl methacrylate	10.768	69	98	2.28	ug/l #	1
60) Dibromochloromethane	10.977	129	253995	15.25	ug/l #	11
64) Tetrachloroethene	10.977	164	261643	14.70	ug/l	96
71) Bromoform	12.715	173	1220	2.80	ug/l #	29
76) 1,2,3-Trichloropropane	12.731	75	683875	24.19	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	683875	76.79	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.260	180	1226	2.95	ug/l #	59
95) Naphthalene	15.504	128	4221	4.07	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.711	180	666	2.48	ug/l	59

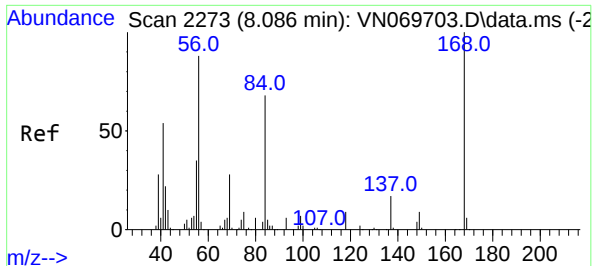
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Dec 03 08:46:47 2021
Response via : Initial Calibration

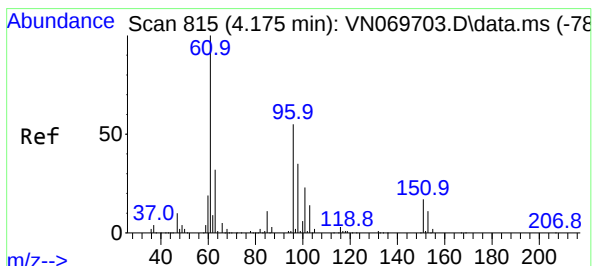
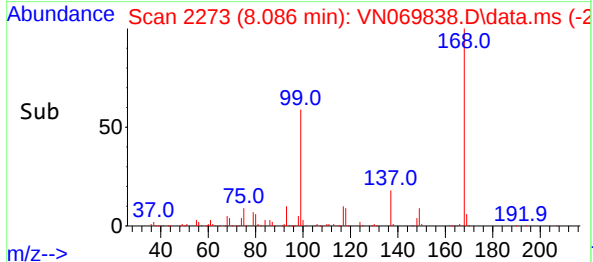
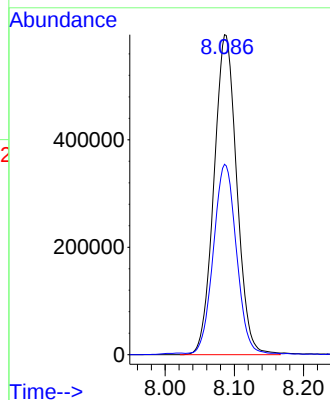
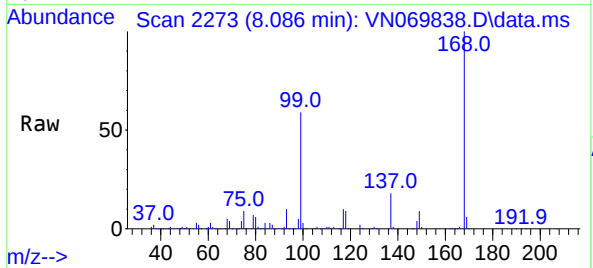




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

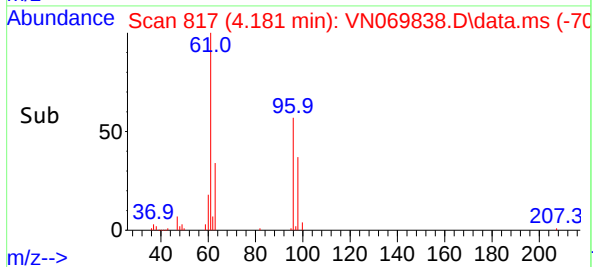
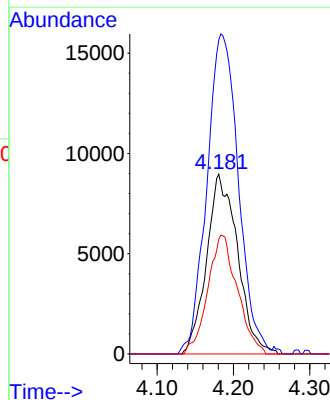
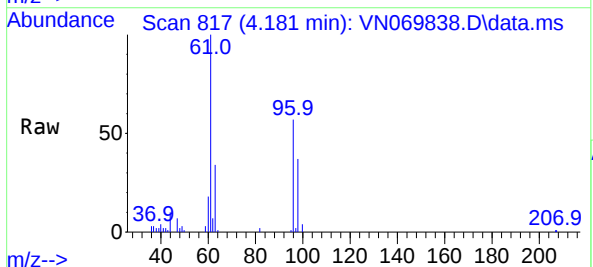
Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20211206

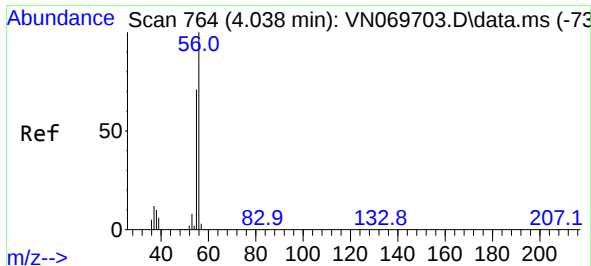
Tgt Ion:168 Resp: 1366000
Ion Ratio Lower Upper
168 100
99 59.1 41.3 61.9



#12
1,1-Dichloroethene
Concen: 1.95 ug/l
RT: 4.181 min Scan# 817
Delta R.T. 0.006 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

Tgt Ion: 96 Resp: 25324
Ion Ratio Lower Upper
96 100
61 172.8 131.0 196.6
98 63.8 52.4 78.6

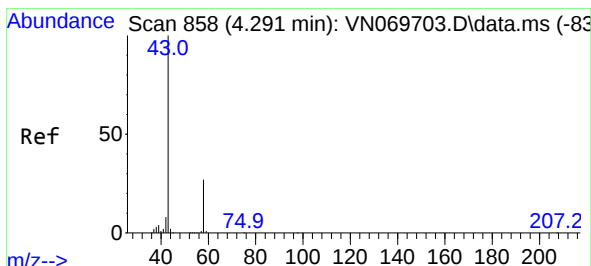
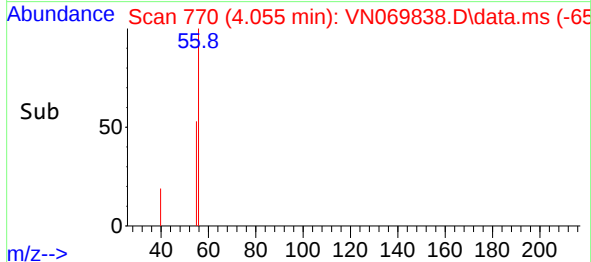
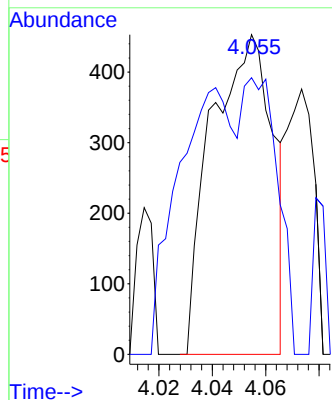
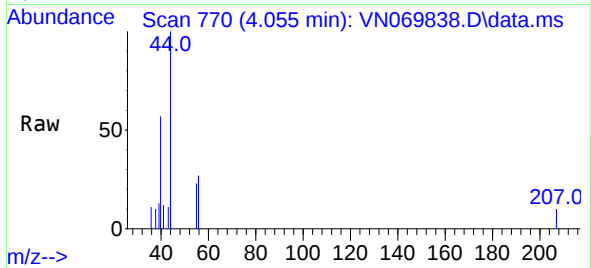




#13
Acrolein
Concen: 0.21 ug/l
RT: 4.055 min Scan# 71
Delta R.T. 0.016 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

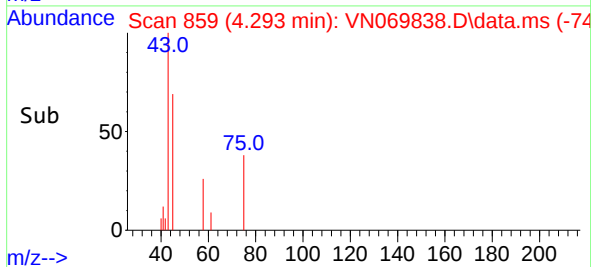
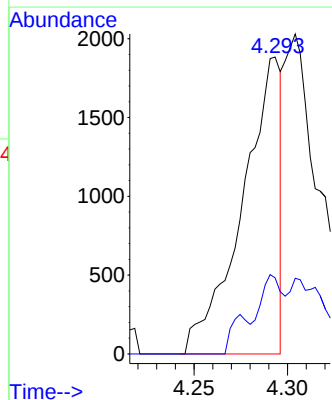
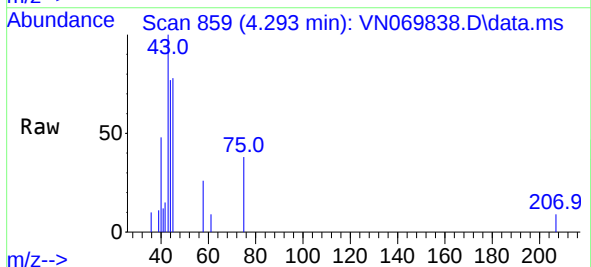
Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20211206

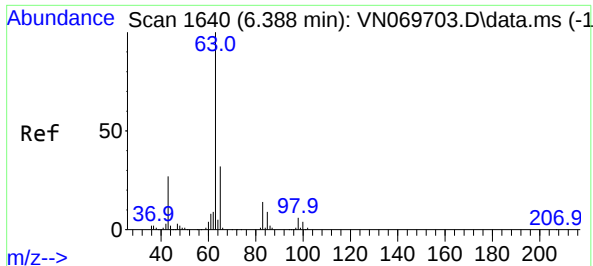
Tgt Ion: 56 Resp: 720
Ion Ratio Lower Upper
56 100
55 50.0 56.6 85.0#



#16
Acetone
Concen: 0.21 ug/l
RT: 4.293 min Scan# 859
Delta R.T. 0.003 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

Tgt Ion: 43 Resp: 2700
Ion Ratio Lower Upper
43 100
58 25.6 23.1 34.7

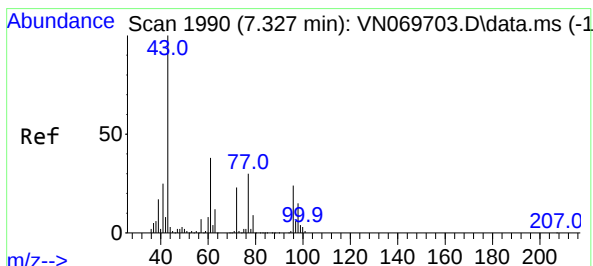
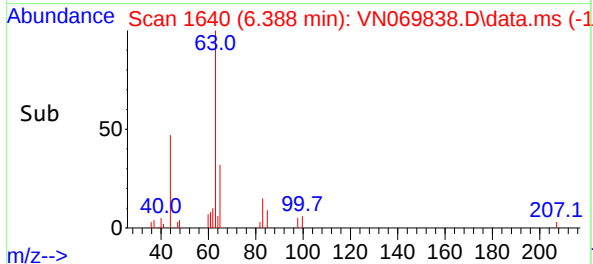
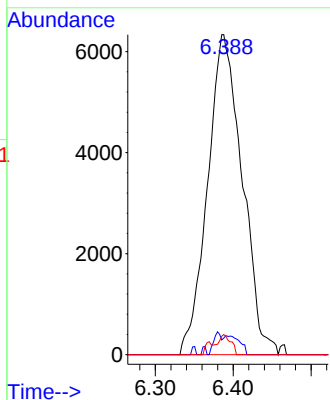
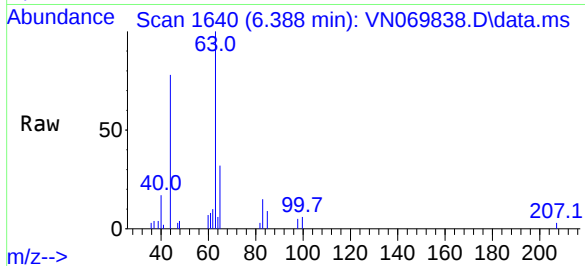




#24
1,1-Dichloroethane
Concen: 0.66 ug/l
RT: 6.388 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

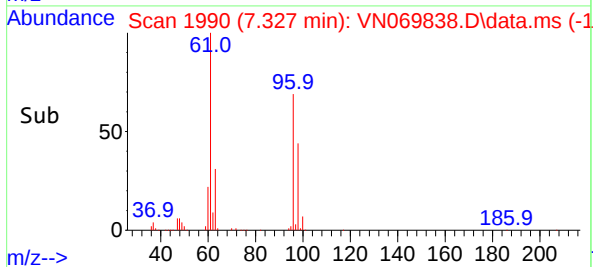
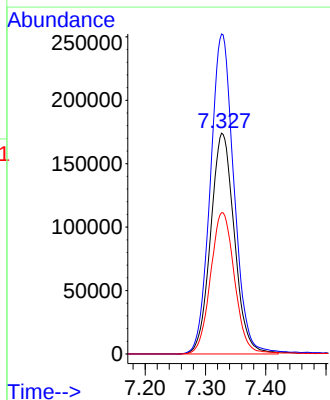
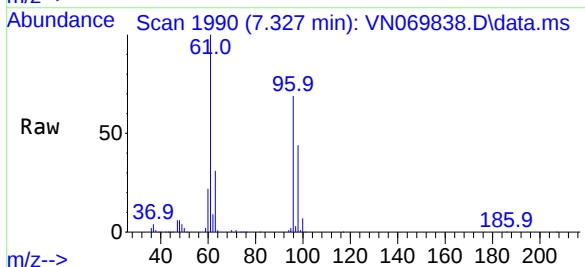
Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20211206

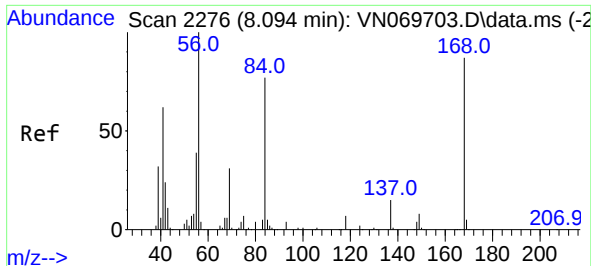
Tgt Ion:	63	Resp:	19561
Ion	Ratio	Lower	Upper
63	100		
98	5.2	3.3	9.9
100	6.3	2.1	6.5



#27
cis-1,2-Dichloroethene
Concen: 27.92 ug/l
RT: 7.327 min Scan# 1990
Delta R.T. 0.000 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

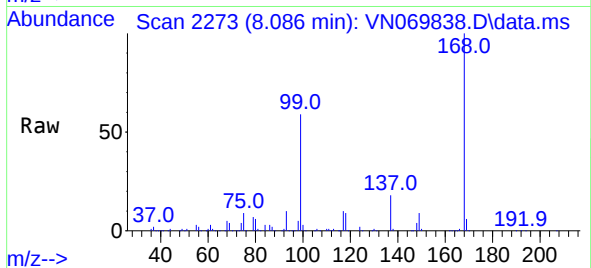
Tgt Ion:	96	Resp:	476747
Ion	Ratio	Lower	Upper
96	100		
61	144.4	0.0	275.0
98	64.8	0.0	129.6



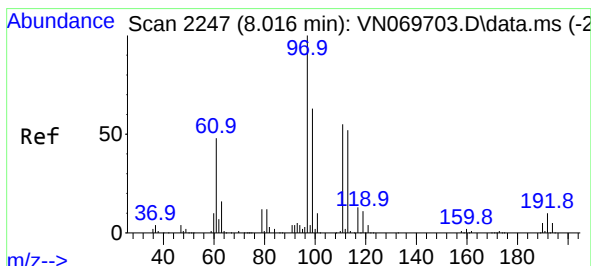
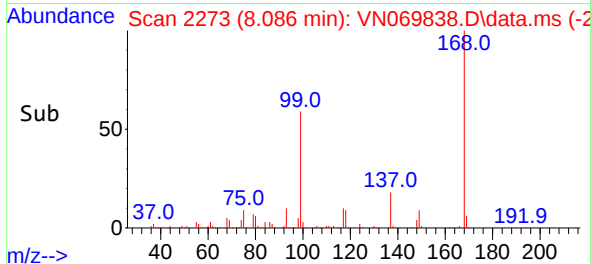
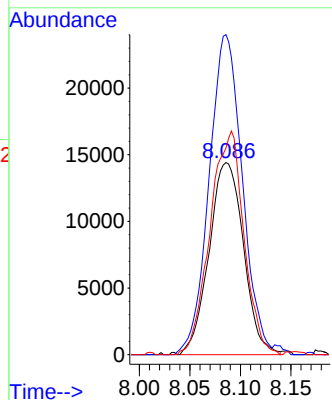


#31
Cyclohexane
Concen: 1.17 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.008 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20211206

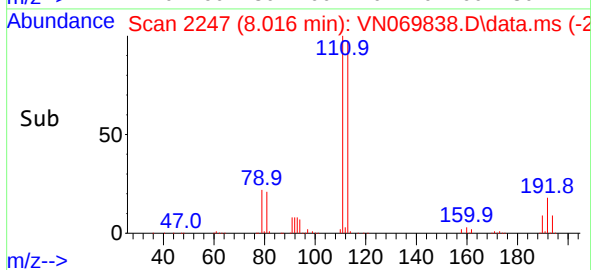
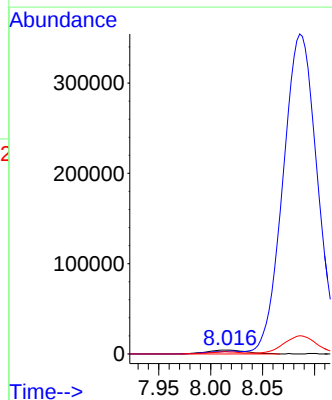
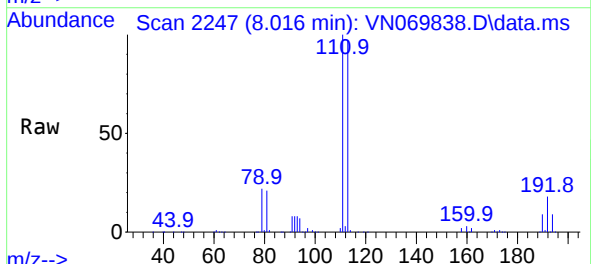


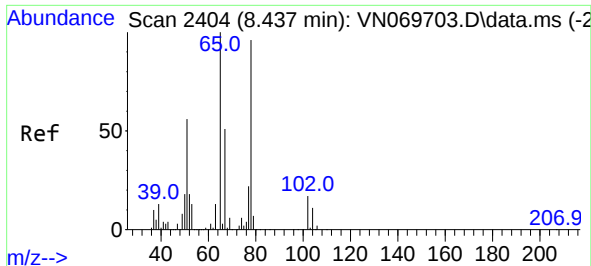
Tgt Ion: 56 Resp: 34214
Ion Ratio Lower Upper
56 100
69 163.8 27.1 40.7#
84 107.6 73.4 110.0



#32
1,1,1-Trichloroethane
Concen: 0.45 ug/l
RT: 8.016 min Scan# 2247
Delta R.T. 0.000 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

Tgt Ion: 97 Resp: 11373
Ion Ratio Lower Upper
97 100
99 0.0 50.1 75.1#
61 45.6 35.2 52.8





#33

1,2-Dichloroethane-d4

Concen: 49.17 ug/l

RT: 8.437 min Scan# 24

Delta R.T. 0.000 min

Lab File: VN069838.D

Acq: 8 Dec 2021 2:25

Instrument :

MSVOA_N

ClientSampleId :

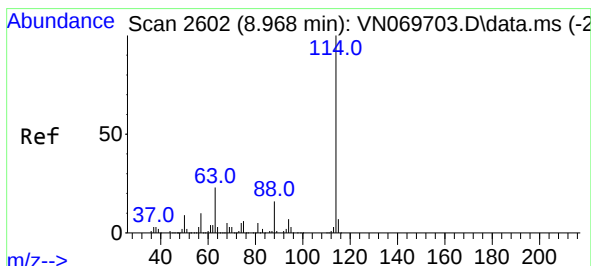
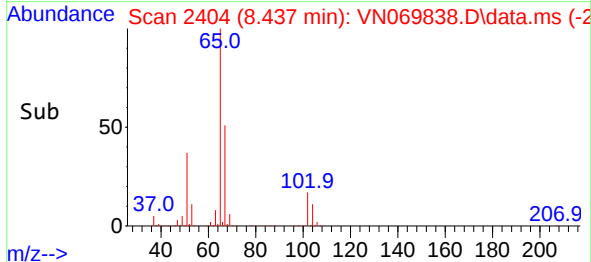
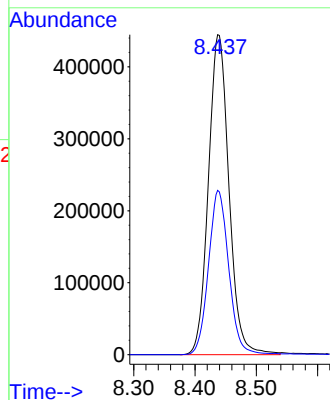
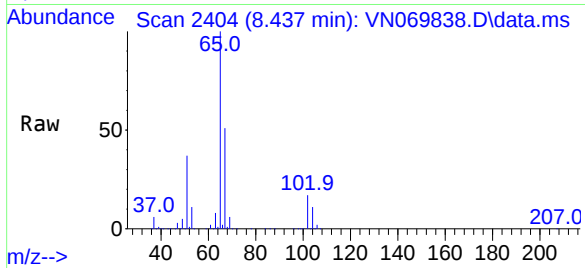
MW179D2-20211206

Tgt Ion: 65 Resp: 1036966

Ion Ratio Lower Upper

65 100

67 50.6 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. 0.000 min

Lab File: VN069838.D

Acq: 8 Dec 2021 2:25

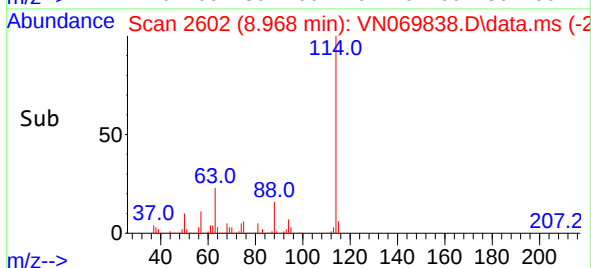
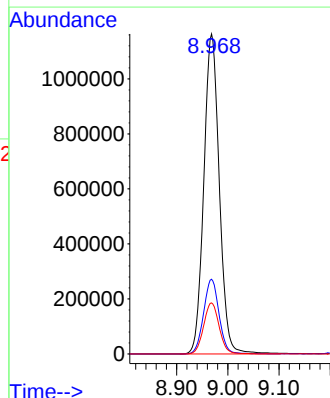
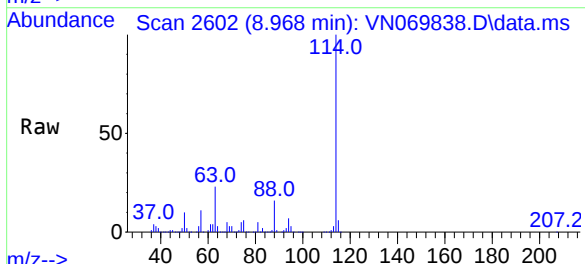
Tgt Ion: 114 Resp: 2446557

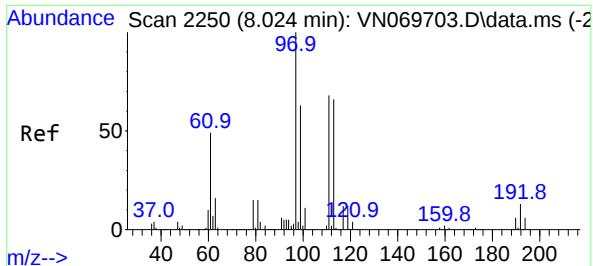
Ion Ratio Lower Upper

114 100

63 23.3 0.0 37.8

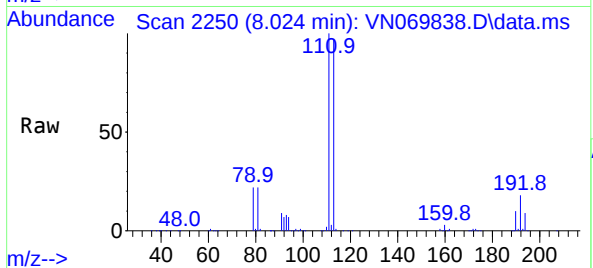
88 16.0 0.0 27.4



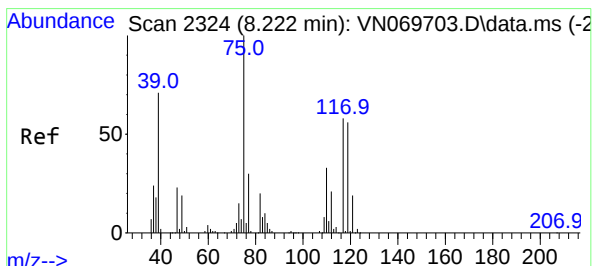
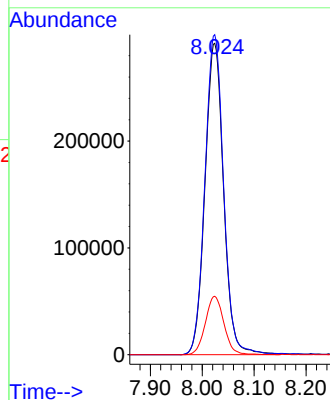
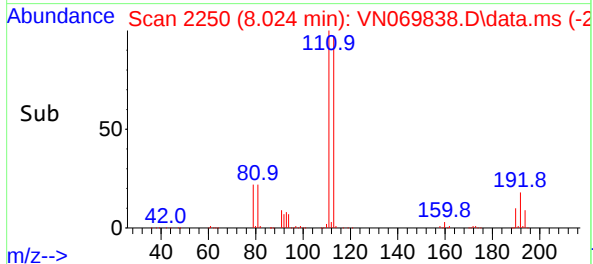


#35
Dibromofluoromethane
Concen: 47.43 ug/l
RT: 8.024 min Scan# 211
Delta R.T. 0.000 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

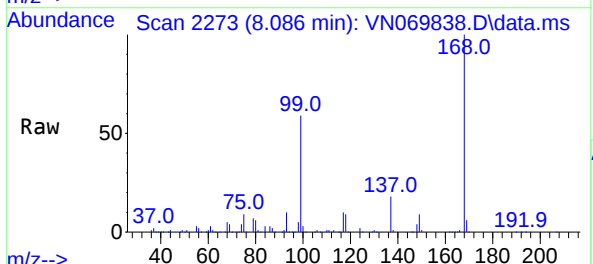
Instrument :
MSVOA_N
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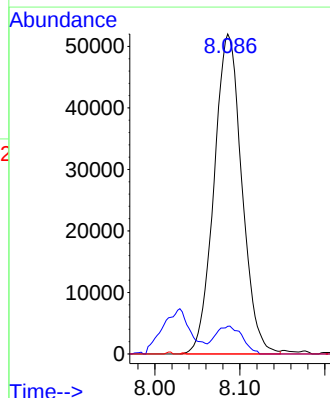
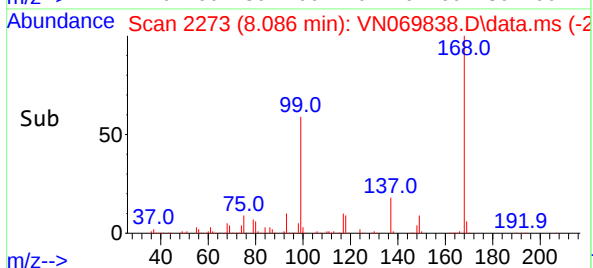
Tgt Ion:113 Resp: 726878
Ion Ratio Lower Upper
113 100
111 103.1 82.2 123.2
192 18.7 16.9 25.3

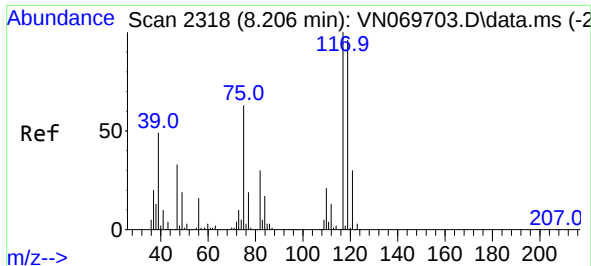


#36
1,1-Dichloropropene
Concen: 5.09 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.137 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25



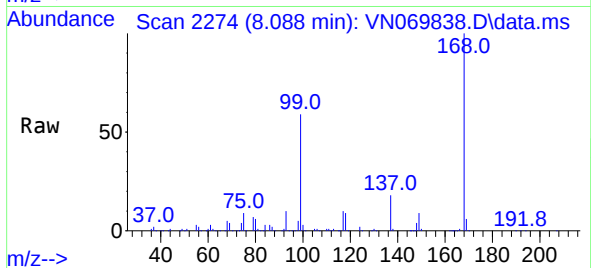
Tgt Ion: 75 Resp: 118440
Ion Ratio Lower Upper
75 100
110 8.5 18.4 55.2#
77 0.0 24.4 36.6#



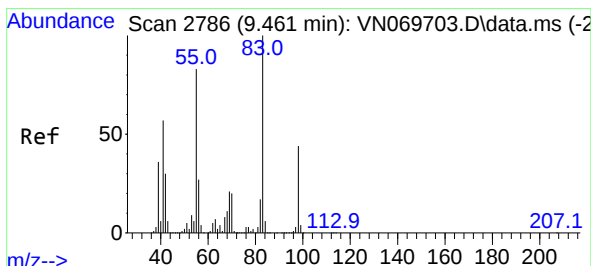
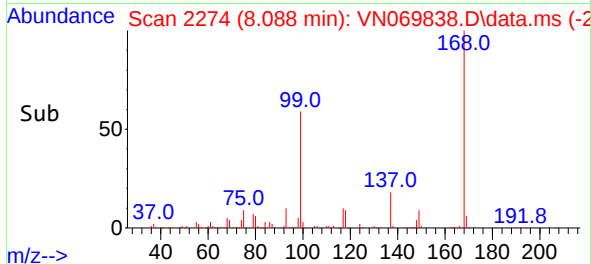
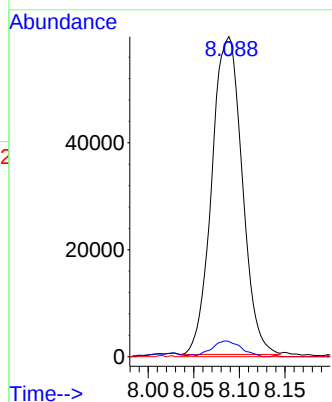


#38
Carbon Tetrachloride
Concen: 6.02 ug/l
RT: 8.088 min Scan# 21
Delta R.T. -0.118 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

Instrument :
MSVOA_N
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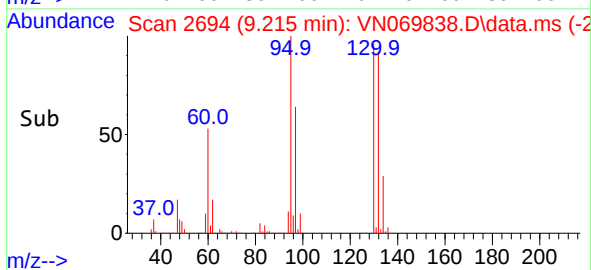
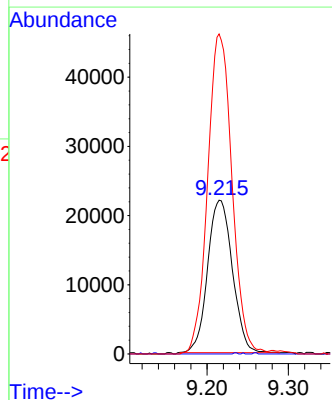
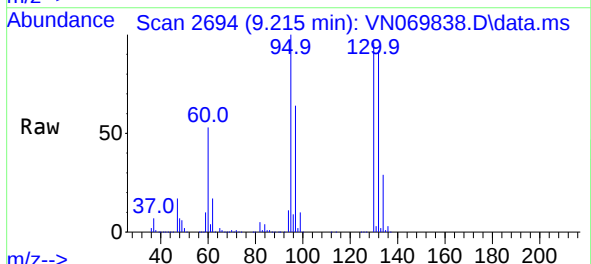


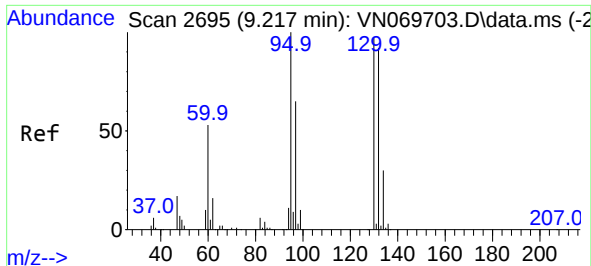
Tgt Ion:117 Resp: 137525
Ion Ratio Lower Upper
117 100
119 4.8 76.1 114.1#
121 0.0 24.2 36.2#



#39
Methylcyclohexane
Concen: 1.69 ug/l
RT: 9.215 min Scan# 2694
Delta R.T. -0.247 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

Tgt Ion: 83 Resp: 46740
Ion Ratio Lower Upper
83 100
55 0.0 58.1 87.1#
98 209.8 38.4 57.6#

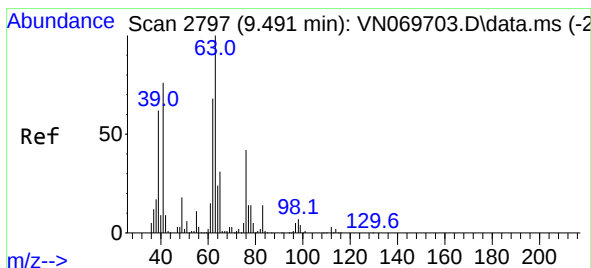
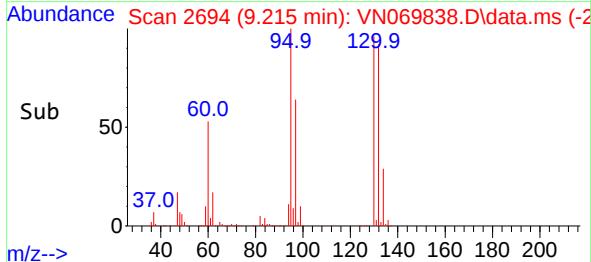
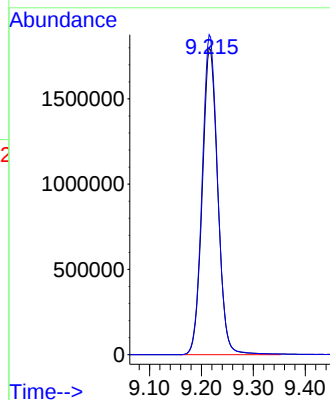
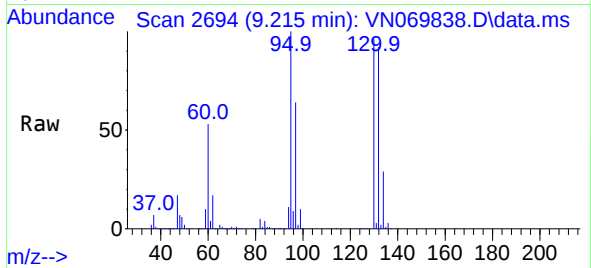




#44
 Trichloroethene
 Concen: 219.12 ug/l
 RT: 9.215 min Scan# 219
 Delta R.T. -0.002 min
 Lab File: VN069838.D
 Acq: 8 Dec 2021 2:25

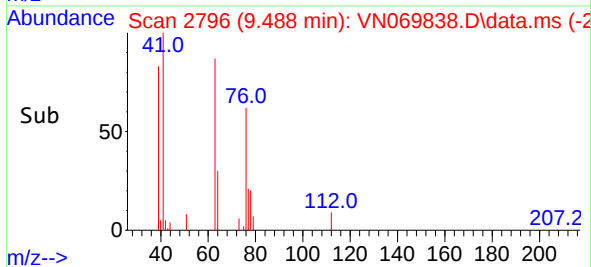
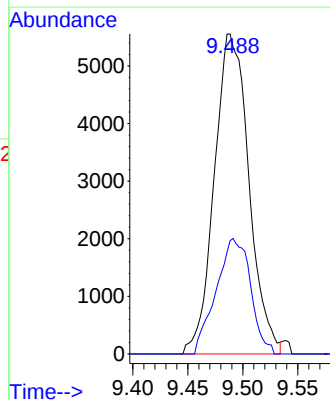
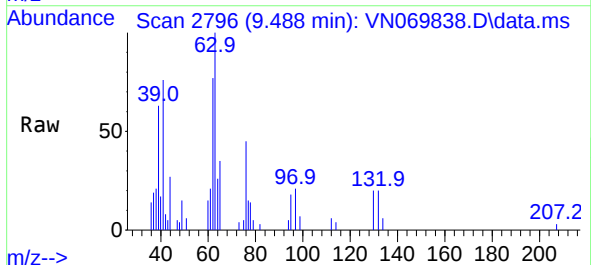
Instrument :
 MSVOA_N
 ClientSampleId :
 MW179D2-20211206

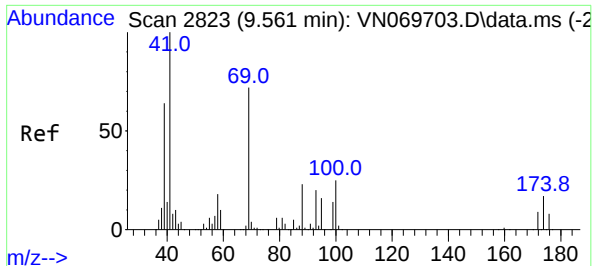
Tgt Ion:130 Resp: 3723201
 Ion Ratio Lower Upper
 130 100
 95 104.4 0.0 191.2



#45
 1,2-Dichloropropane
 Concen: 0.64 ug/l
 RT: 9.488 min Scan# 2796
 Delta R.T. -0.003 min
 Lab File: VN069838.D
 Acq: 8 Dec 2021 2:25

Tgt Ion: 63 Resp: 12149
 Ion Ratio Lower Upper
 63 100
 65 35.4 24.7 37.1

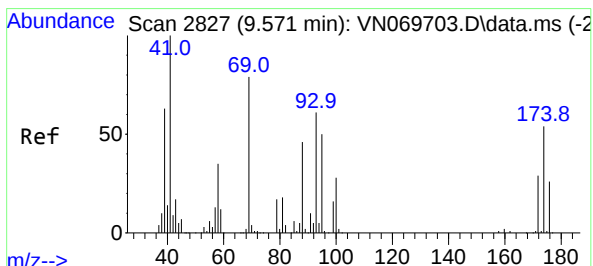
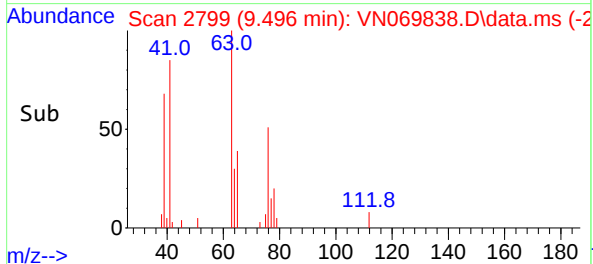
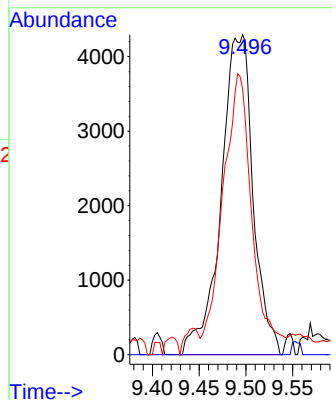
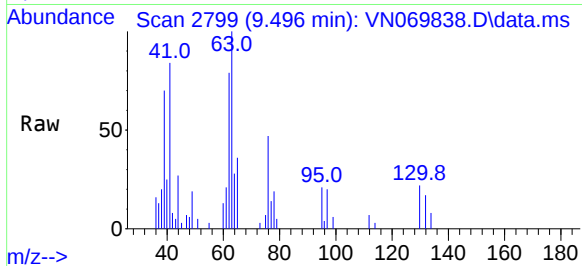




#48
Methyl methacrylate
Concen: 0.43 ug/l
RT: 9.496 min Scan# 21
Delta R.T. -0.065 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

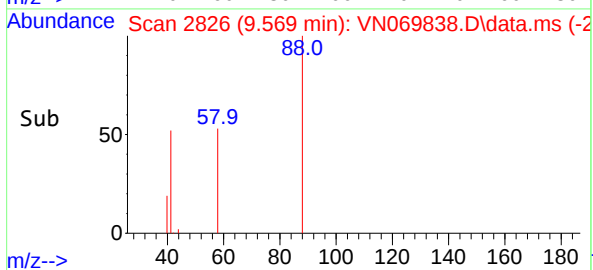
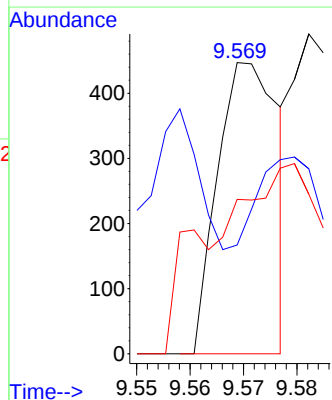
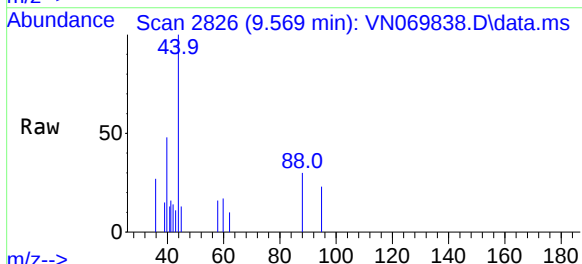
Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20211206

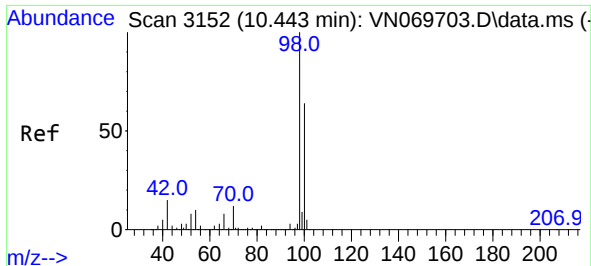
Tgt Ion: 41 Resp: 10271
Ion Ratio Lower Upper
41 100
69 0.0 72.4 108.6#
39 71.6 58.4 87.6



#49
1,4-Dioxane
Concen: 0.82 ug/l
RT: 9.569 min Scan# 2826
Delta R.T. -0.003 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

Tgt Ion: 88 Resp: 352
Ion Ratio Lower Upper
88 100
43 50.0 23.4 35.2#
58 24.4 50.6 75.8#

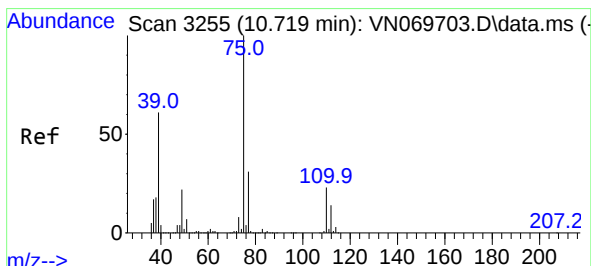
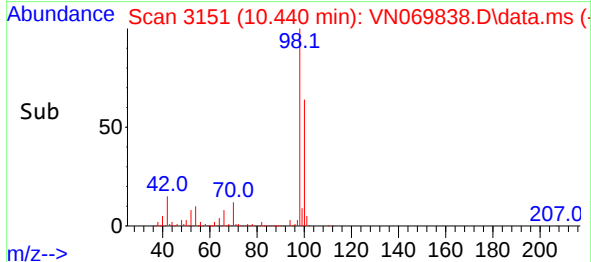
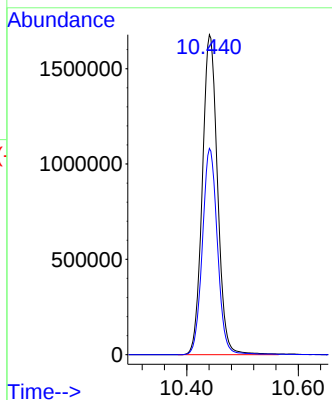
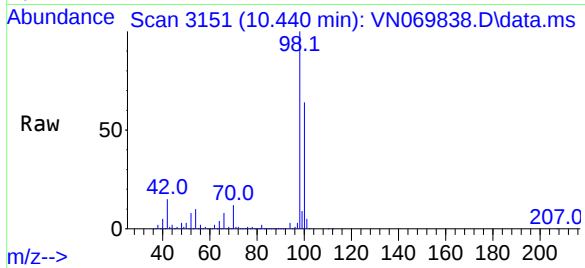




#50
Toluene-d8
Concen: 51.57 ug/l
RT: 10.440 min Scan# 3152
Delta R.T. -0.003 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

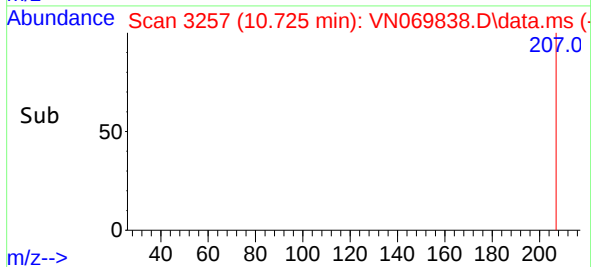
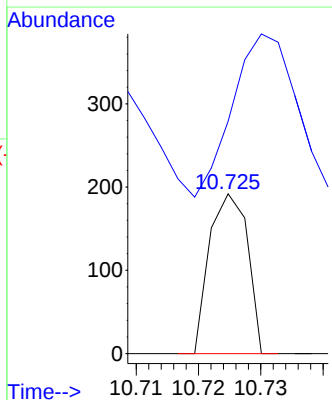
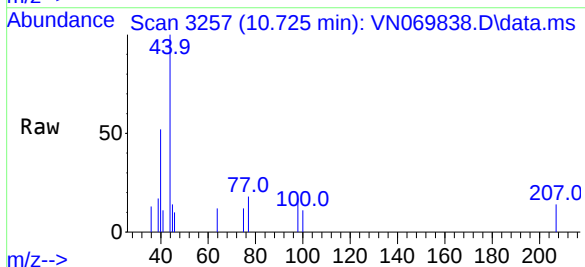
Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20211206

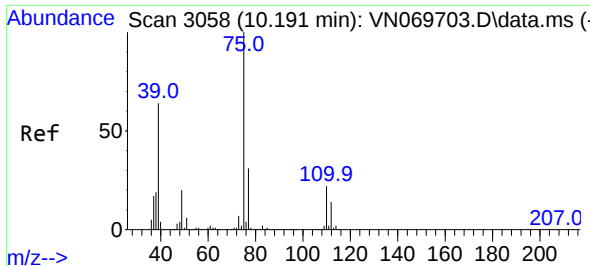
Tgt Ion: 98 Resp: 3173398
Ion Ratio Lower Upper
98 100
100 63.8 50.4 75.6



#53
t-1,3-Dichloropropene
Concen: 2.80 ug/l
RT: 10.725 min Scan# 3257
Delta R.T. 0.006 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

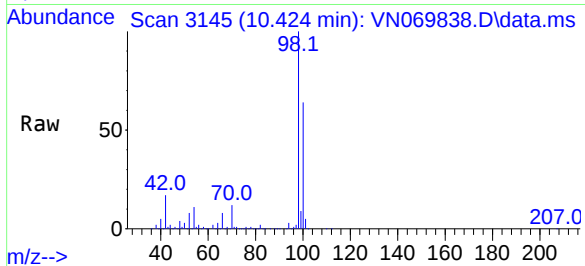
Tgt Ion: 75 Resp: 81
Ion Ratio Lower Upper
75 100
77 35.9 25.6 38.4





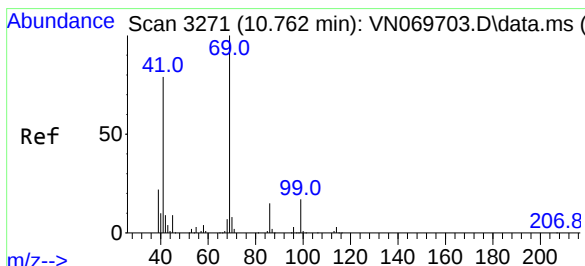
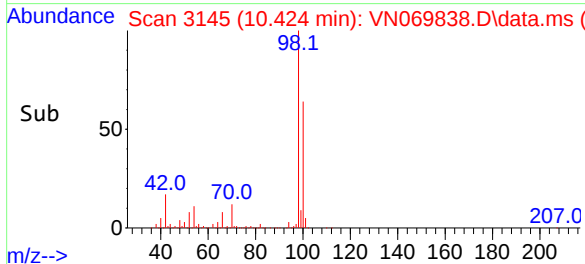
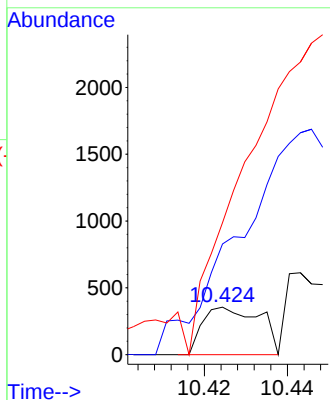
#54
 cis-1,3-Dichloropropene
 Concen: 2.01 ug/l
 RT: 10.424 min Scan# 3145
 Delta R.T. 0.233 min
 Lab File: VN069838.D
 Acq: 8 Dec 2021 2:25

Instrument :
 MSVOA_N
 ClientSampleId :
 MW179D2-20211206



Tgt Ion: 75 Resp: 339

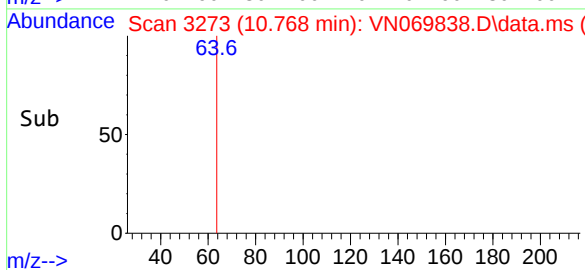
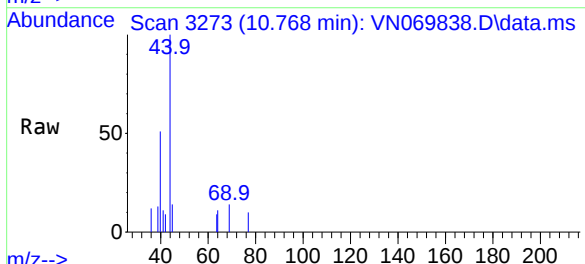
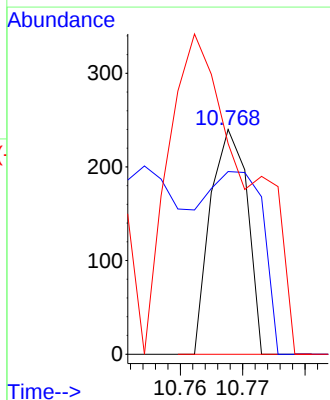
Ion	Ratio	Lower	Upper
75	100		
77	160.6	26.4	39.6#
39	188.2	42.5	63.7#

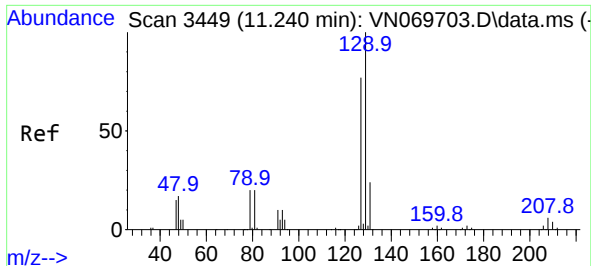


#56
 Ethyl methacrylate
 Concen: 2.28 ug/l
 RT: 10.768 min Scan# 3273
 Delta R.T. 0.006 min
 Lab File: VN069838.D
 Acq: 8 Dec 2021 2:25

Tgt Ion: 69 Resp: 98

Ion	Ratio	Lower	Upper
69	100		
41	120.4	51.4	77.0#
39	305.1	34.6	52.0#

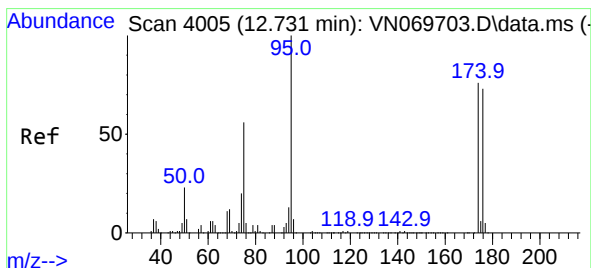
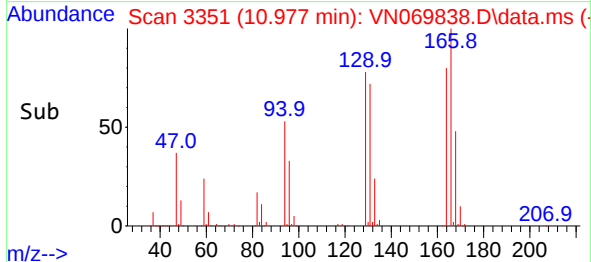
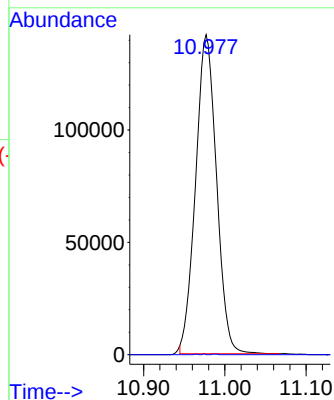
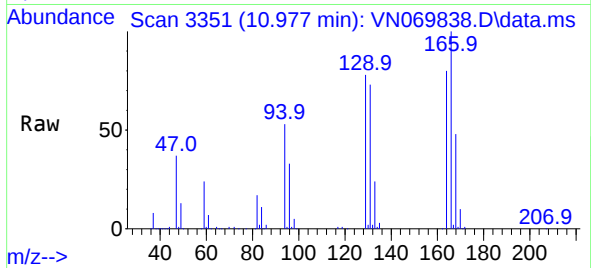




#60
Dibromochloromethane
Concen: 15.25 ug/l
RT: 10.977 min Scan# 31
Delta R.T. -0.263 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

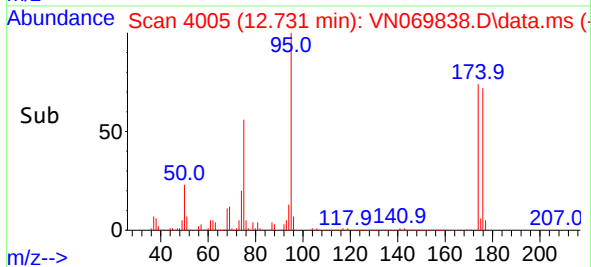
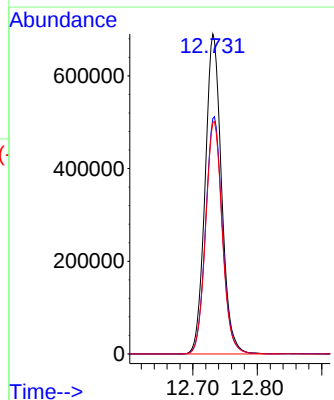
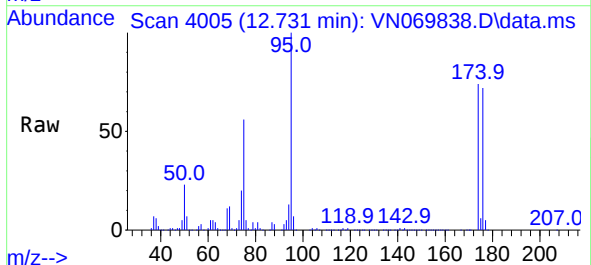
Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20211206

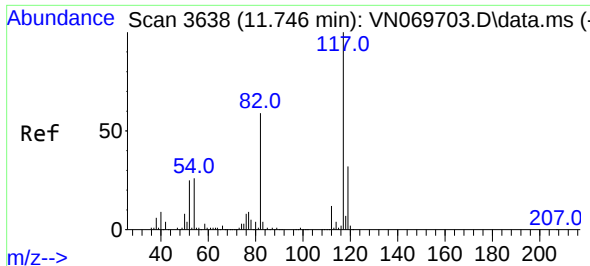
Tgt Ion:129 Resp: 253995
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 54.72 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

Tgt Ion: 95 Resp: 1219766
Ion Ratio Lower Upper
95 100
174 75.5 0.0 187.2
176 73.6 0.0 181.4



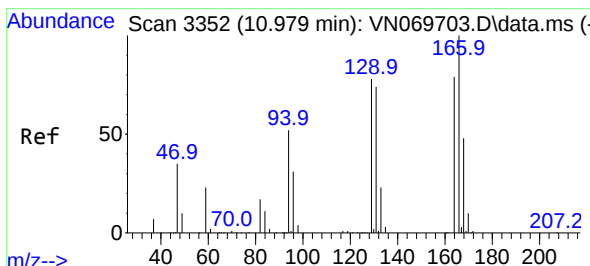
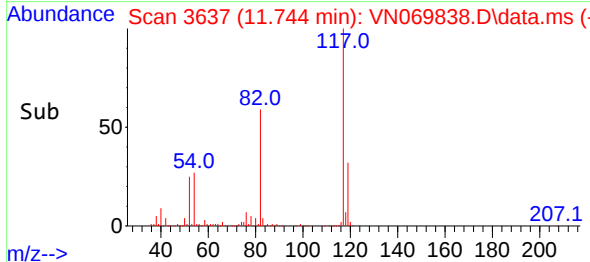
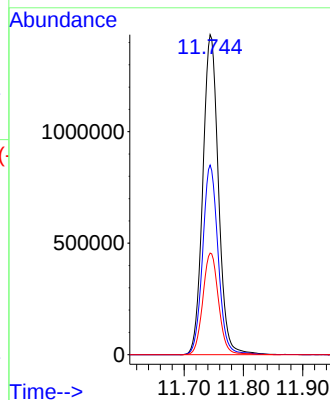
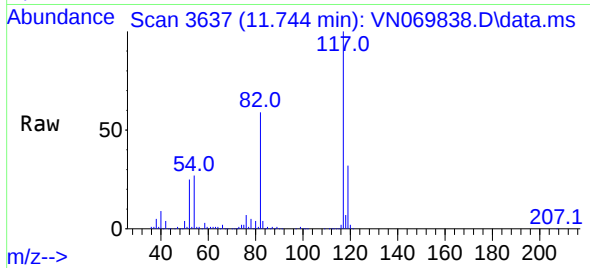


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.744 min Scan# 3638
Delta R.T. -0.002 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20211206

Tgt Ion:117 Resp: 2625201

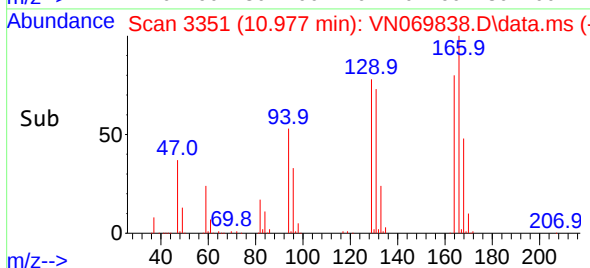
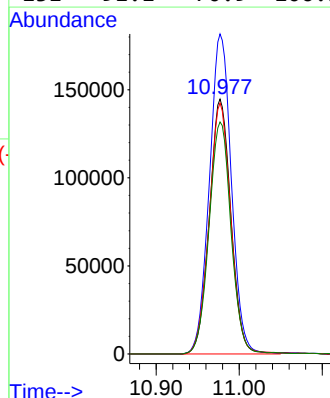
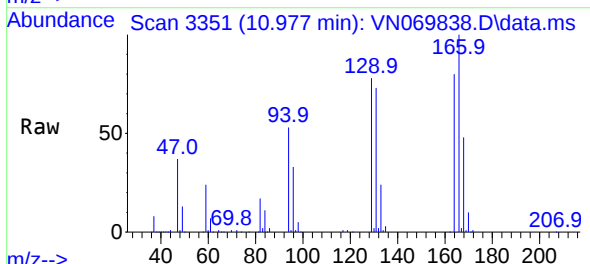
Ion	Ratio	Lower	Upper
117	100		
82	59.2	42.4	63.6
119	31.8	25.4	38.2

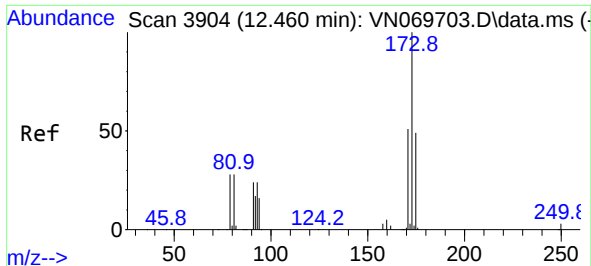


#64
Tetrachloroethene
Concen: 14.70 ug/l
RT: 10.977 min Scan# 3351
Delta R.T. -0.002 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

Tgt Ion:164 Resp: 261643

Ion	Ratio	Lower	Upper
164	100		
166	125.6	101.9	152.9
129	98.5	72.0	108.0
131	91.1	70.9	106.3

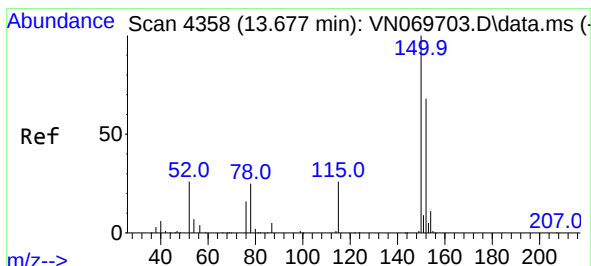
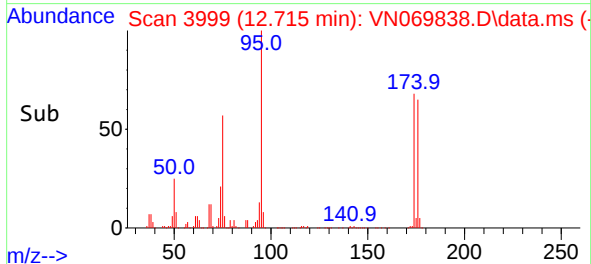
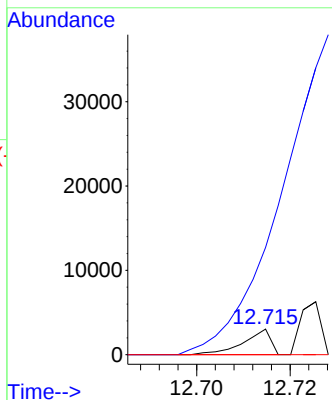
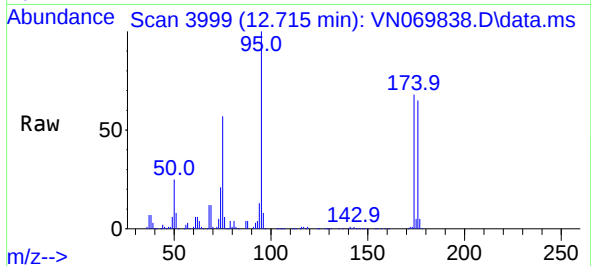




#71
Bromoform
Concen: 2.80 ug/l
RT: 12.715 min Scan# 3904
Delta R.T. 0.255 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

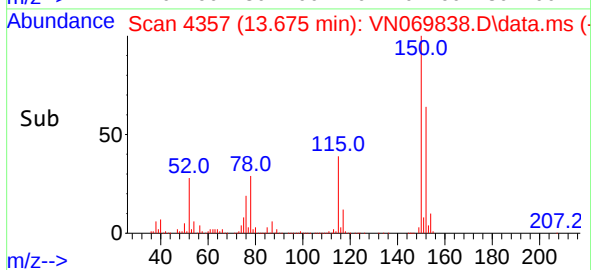
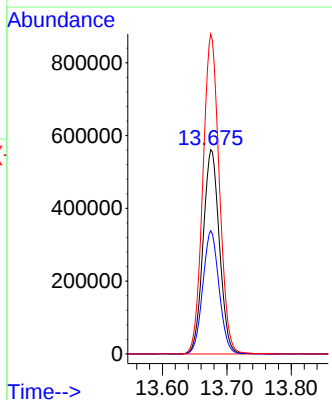
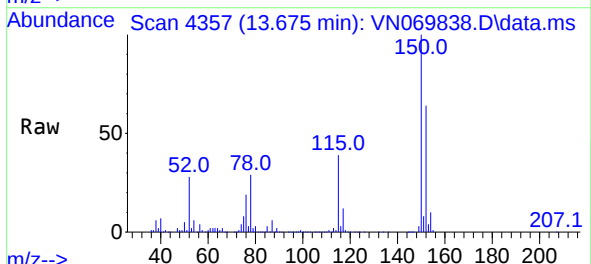
Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20211206

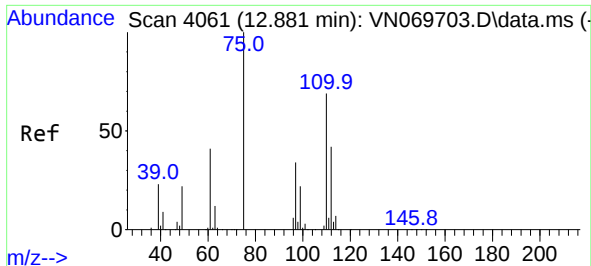
Tgt Ion:173 Resp: 1220
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.675 min Scan# 4357
Delta R.T. -0.003 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

Tgt Ion:152 Resp: 985951
Ion Ratio Lower Upper
152 100
115 60.3 27.5 82.5
150 157.3 0.0 344.4

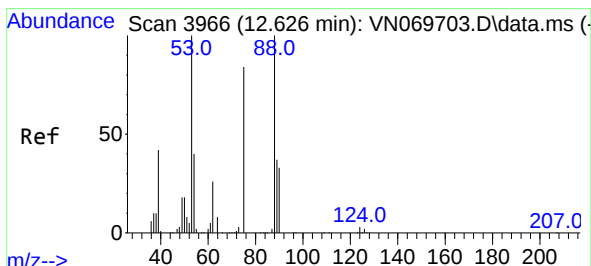
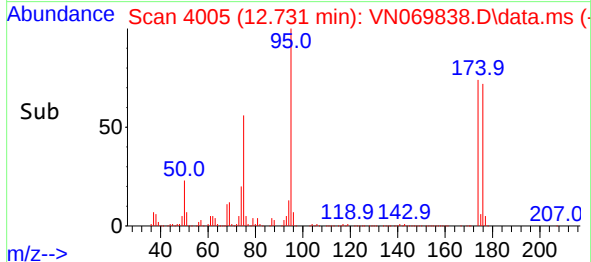
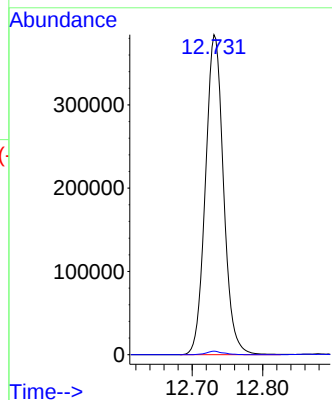
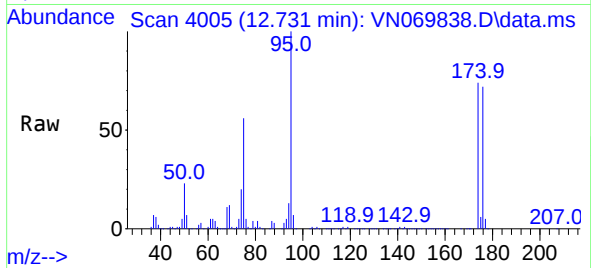




#76
1,2,3-Trichloropropane
Concen: 24.19 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

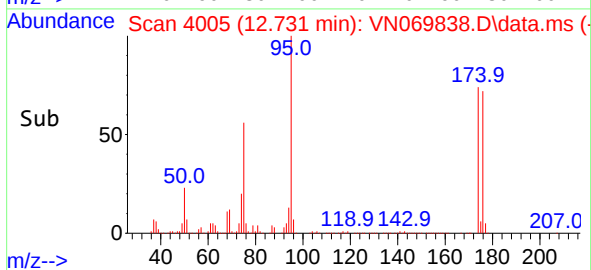
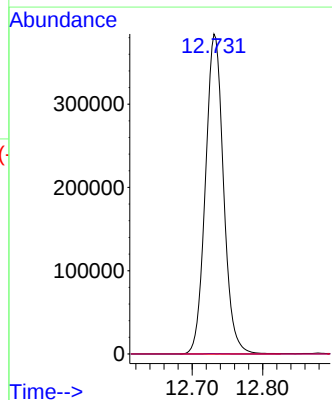
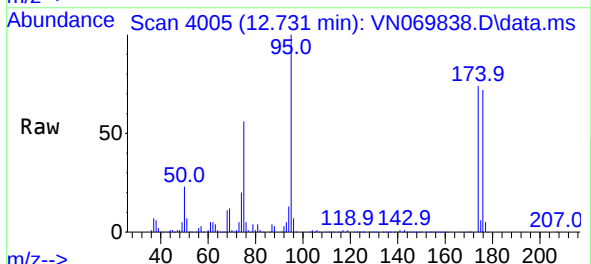
Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20211206

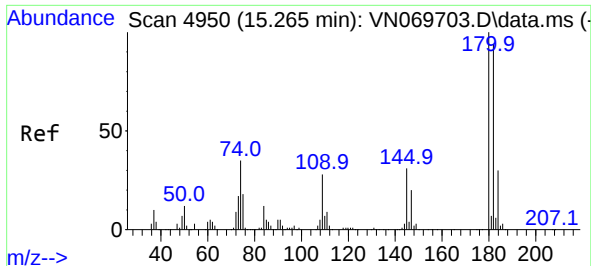
Tgt Ion: 75 Resp: 683875
Ion Ratio Lower Upper
75 100
77 1.0 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 76.79 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

Tgt Ion: 75 Resp: 683875
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#

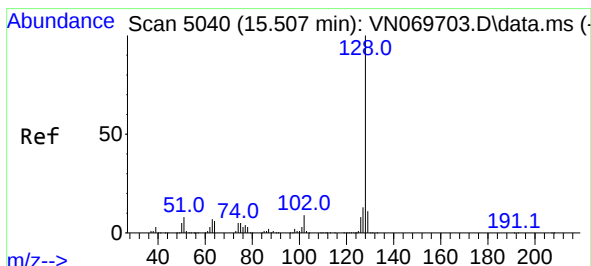
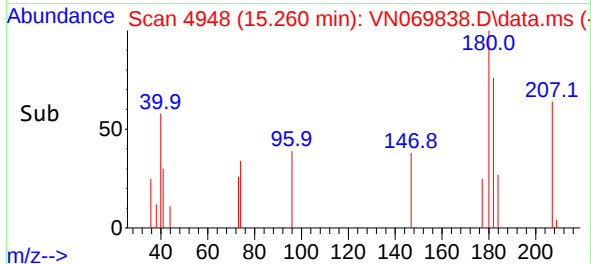
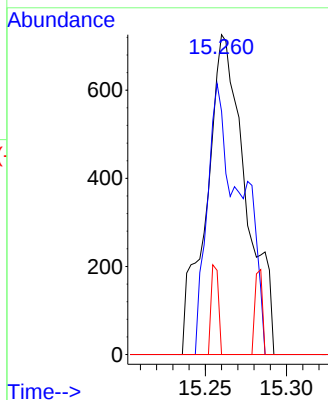
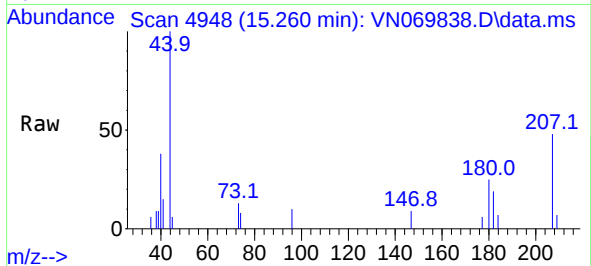




#93
1,2,4-Trichlorobenzene
Concen: 2.95 ug/l
RT: 15.260 min Scan# 4950
Delta R.T. -0.005 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

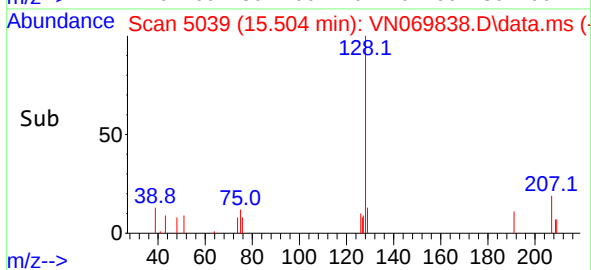
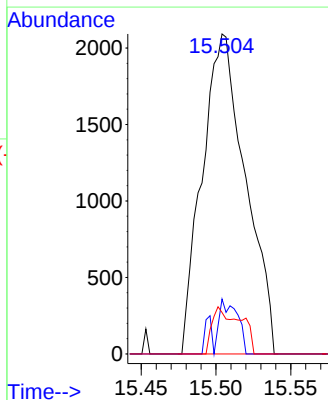
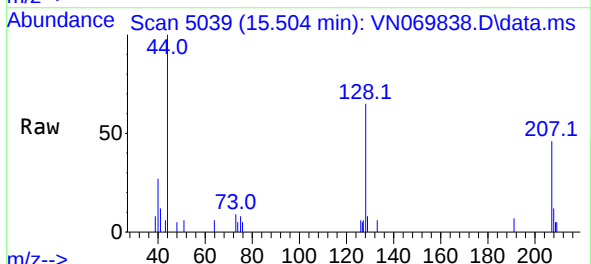
Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20211206

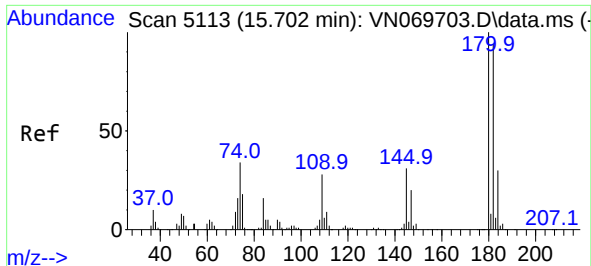
Tgt Ion:180 Resp: 1226
Ion Ratio Lower Upper
180 100
182 57.4 48.3 144.9
145 5.2 14.5 43.5#



#95
Naphthalene
Concen: 4.07 ug/l
RT: 15.504 min Scan# 5039
Delta R.T. -0.003 min
Lab File: VN069838.D
Acq: 8 Dec 2021 2:25

Tgt Ion:128 Resp: 4221
Ion Ratio Lower Upper
128 100
127 7.1 10.5 15.7#
129 9.6 8.7 13.1





#96

1,2,3-Trichlorobenzene

Concen: 2.48 ug/l

RT: 15.711 min Scan# 51

Delta R.T. 0.009 min

Lab File: VN069838.D

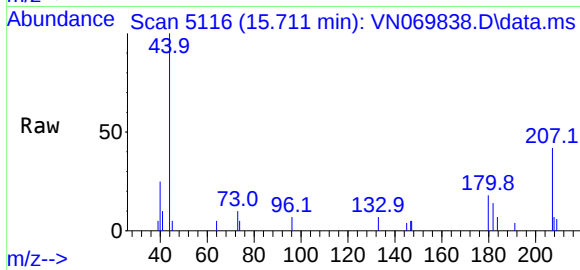
Acq: 8 Dec 2021 2:25

Instrument :

MSVOA_N

ClientSampleId :

MW179D2-20211206



Tgt Ion:180 Resp: 666

Ion Ratio Lower Upper

180 100

182 141.3 47.4 142.2

145 19.5 15.0 45.1

