

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121721\
 Data File : VN070185.D
 Acq On : 18 Dec 2021 1:07
 Operator : JC/MD
 Sample : M5128-03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 18 06:02:16 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)

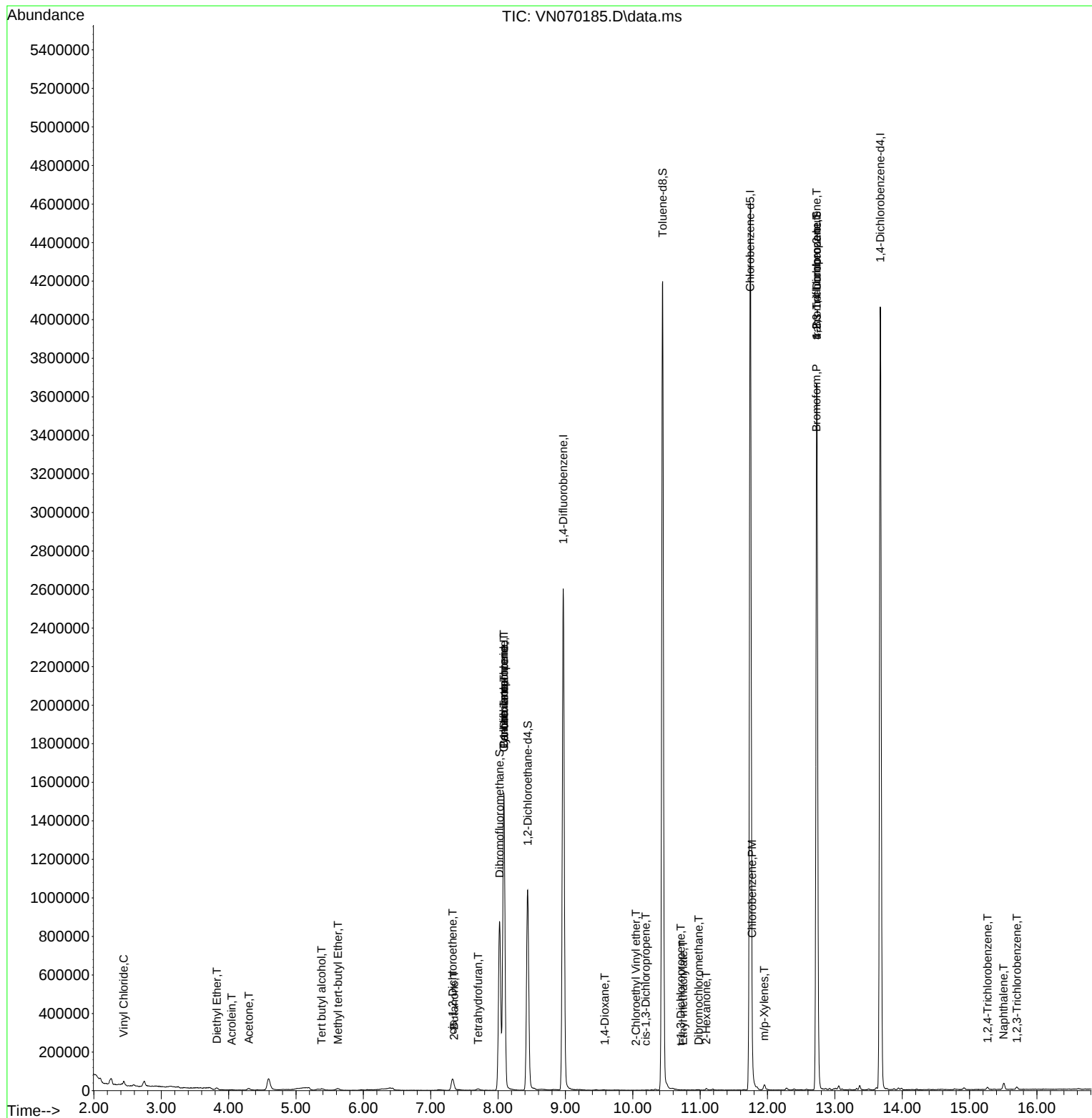
Internal Standards						
1) Pentafluorobenzene	8.086	168	1155666	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2189617	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2595010	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	1090585	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	906498	50.803	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 101.600%			
35) Dibromofluoromethane	8.024	113	640690	46.714	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 93.420%			
50) Toluene-d8	10.443	98	2889746	52.473	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 104.940%			
62) 4-Bromofluorobenzene	12.731	95	1309043	65.612	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 131.220%			
Target Compounds					Qvalue	
4) Vinyl Chloride	2.443	62	15051	0.969	ug/l	91
8) Diethyl Ether	3.824	74	4636	0.591	ug/l	94
11) Tert butyl alcohol	5.380	59	8644	2.563	ug/l #	90
13) Acrolein	4.044	56	1730	0.602	ug/l	96
16) Acetone	4.299	43	13801	1.286	ug/l #	85
19) Methyl tert-butyl Ether	5.624	73	11779	0.275	ug/l #	88
25) 2-Butanone	7.348	43	4892	0.335	ug/l #	76
27) cis-1,2-Dichloroethene	7.327	96	14436	0.999	ug/l	92
29) Tetrahydrofuran	7.702	42	6766	0.764	ug/l #	44
31) Cyclohexane	8.088	56	29560	1.190	ug/l #	33
36) 1,1-Dichloropropene	8.086	75	100234	4.809	ug/l #	49
38) Carbon Tetrachloride	8.086	117	119387	5.841	ug/l #	16
49) 1,4-Dioxane	9.582	88	924	2.403	ug/l	94
53) t-1,3-Dichloropropene	10.711	75	248	2.803	ug/l #	43
54) cis-1,3-Dichloropropene	10.194	75	212	2.006	ug/l #	1
56) Ethyl methacrylate	10.749	69	267	2.288	ug/l #	69
58) 2-Chloroethyl Vinyl ether	10.049	63	136	18.405	ug/l #	45
59) 2-Hexanone	11.092	43	7471	0.332	ug/l	81
60) Dibromochloromethane	10.980	129	634	2.412	ug/l #	11
65) Chlorobenzene	11.771	112	25224	0.479	ug/l	97
68) m/p-Xylenes	11.950	106	8789	0.252	ug/l	95
71) Bromoform	12.726	173	3062	2.914	ug/l #	29
76) 1,2,3-Trichloropropane	12.731	75	724435	23.163	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	724435	73.713	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.268	180	4059	3.092	ug/l	92
95) Naphthalene	15.504	128	32331	4.543	ug/l	99
96) 1,2,3-Trichlorobenzene	15.703	180	4339	2.672	ug/l	96

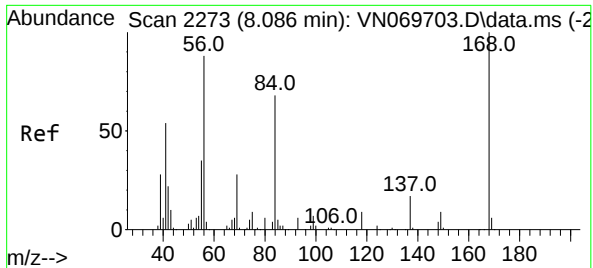
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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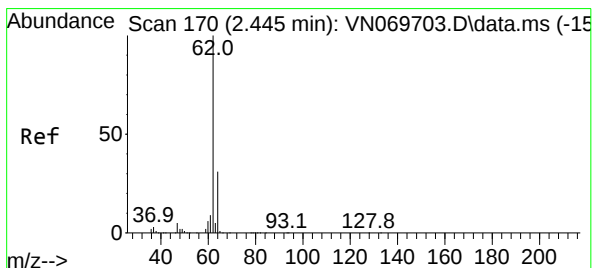
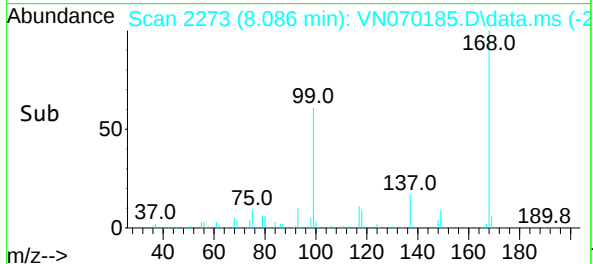
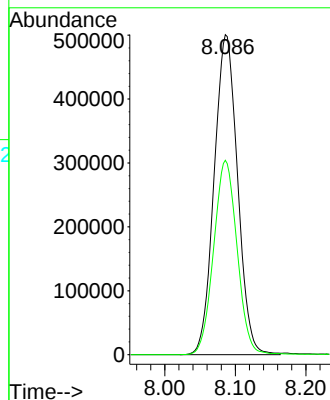
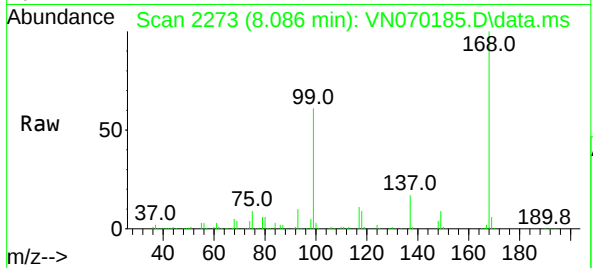




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

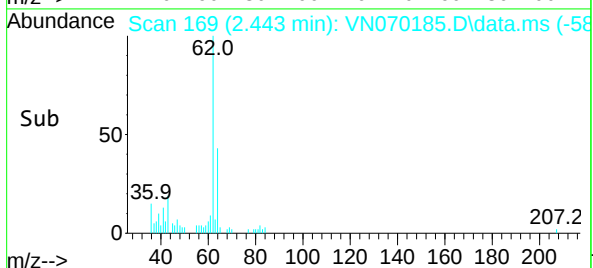
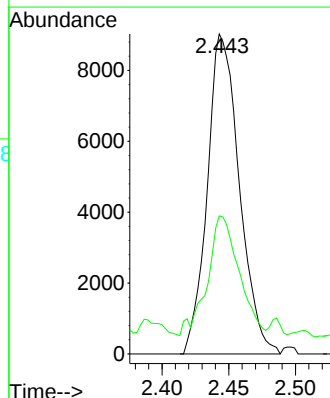
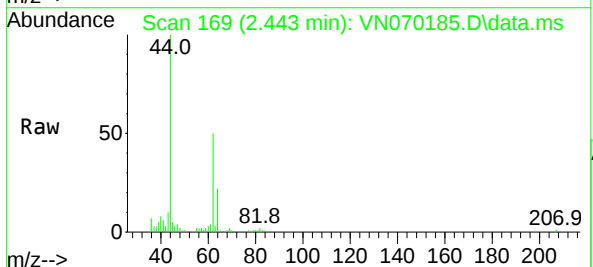
Instrument :
MSVOA_N
ClientSampleId :

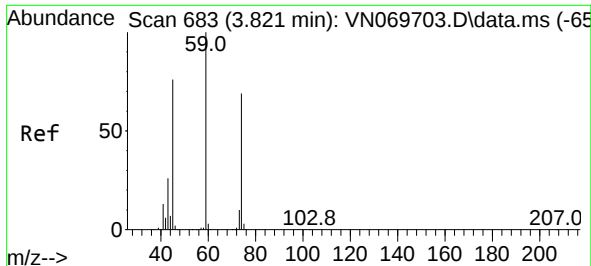
Tgt Ion:168 Resp: 1155666
Ion Ratio Lower Upper
168 100
99 60.8 41.3 61.9



#4
Vinyl Chloride
Concen: 0.969 ug/l
RT: 2.443 min Scan# 169
Delta R.T. -0.002 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

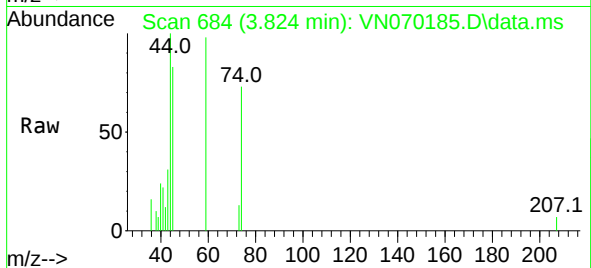
Tgt Ion: 62 Resp: 15051
Ion Ratio Lower Upper
62 100
64 37.4 25.8 38.6



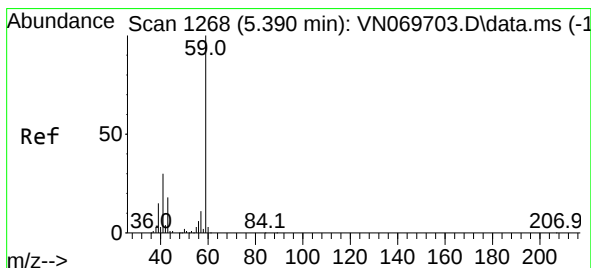
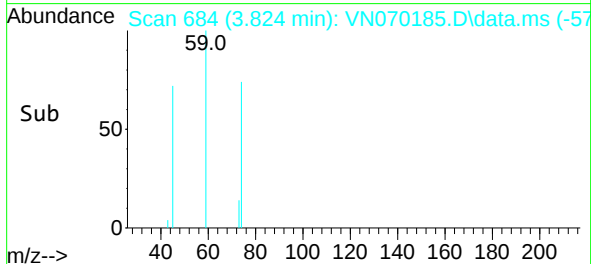
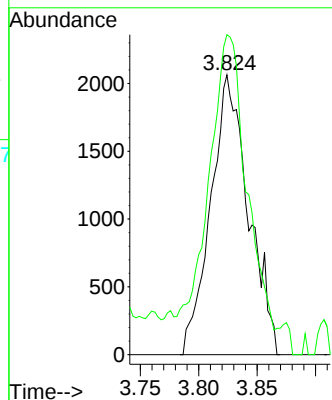


#8
Diethyl Ether
Concen: 0.591 ug/l
RT: 3.824 min Scan# 61
Delta R.T. 0.003 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

Instrument :
MSVOA_N
ClientSampleId :

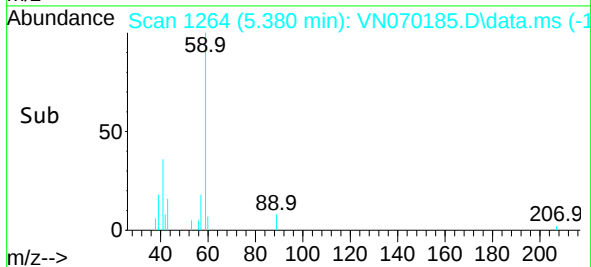
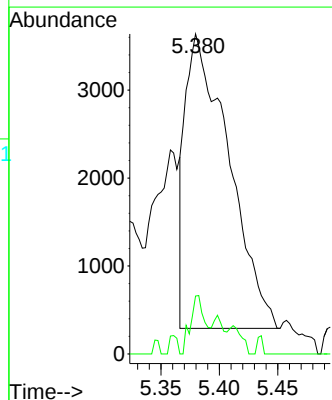
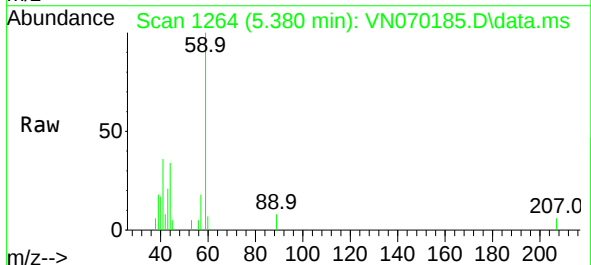


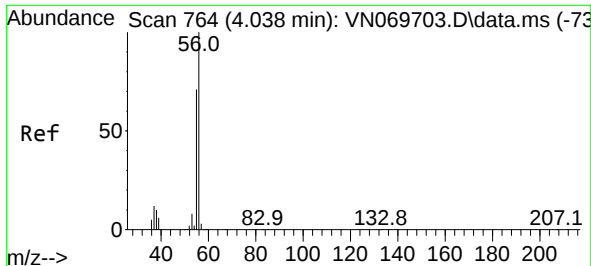
Tgt Ion: 74 Resp: 4636
Ion Ratio Lower Upper
74 100
45 99.8 47.0 141.2



#11
Tert butyl alcohol
Concen: 2.563 ug/l
RT: 5.380 min Scan# 1264
Delta R.T. -0.010 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

Tgt Ion: 59 Resp: 8644
Ion Ratio Lower Upper
59 100
57 6.9 8.7 13.1#

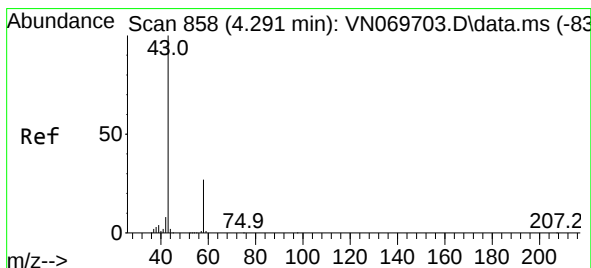
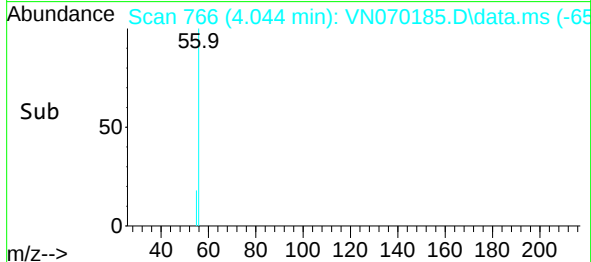
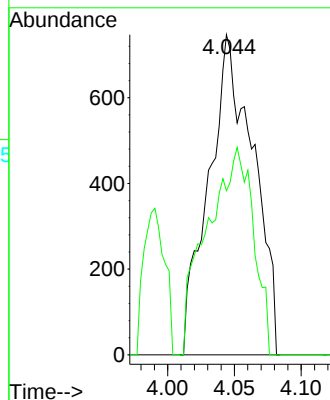
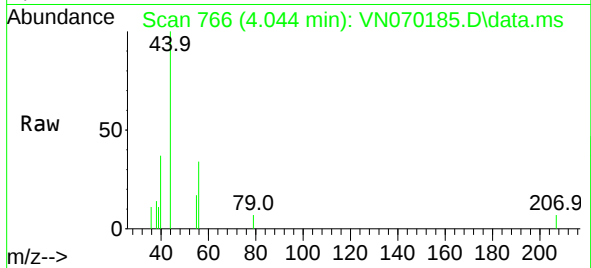




#13
Acrolein
Concen: 0.602 ug/l
RT: 4.044 min Scan# 764
Delta R.T. 0.006 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

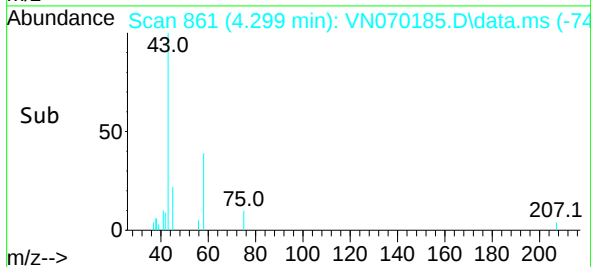
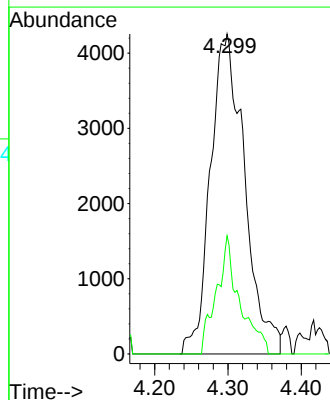
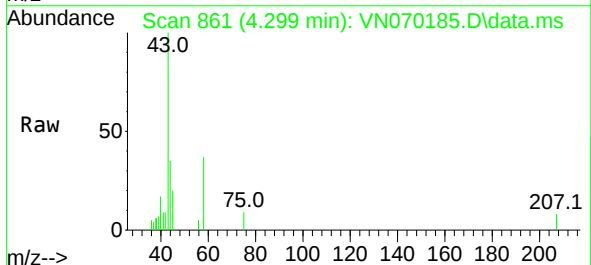
Instrument :
MSVOA_N
ClientSampleId :

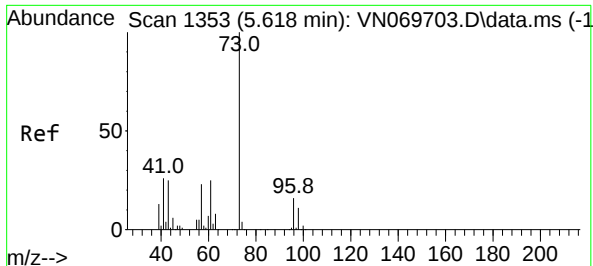
Tgt Ion: 56 Resp: 1730
Ion Ratio Lower Upper
56 100
55 67.2 56.6 85.0



#16
Acetone
Concen: 1.286 ug/l
RT: 4.299 min Scan# 861
Delta R.T. 0.008 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

Tgt Ion: 43 Resp: 13801
Ion Ratio Lower Upper
43 100
58 36.9 23.1 34.7#





#19

Methyl tert-butyl Ether

Concen: 0.275 ug/l

RT: 5.624 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN070185.D

Acq: 18 Dec 2021 1:07

Instrument :

MSVOA_N

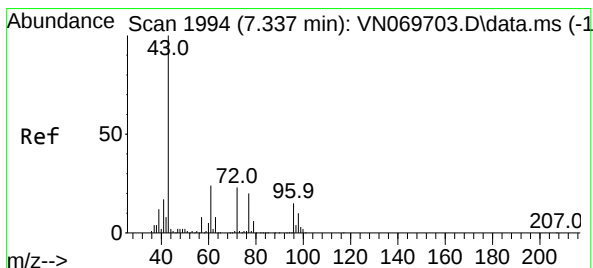
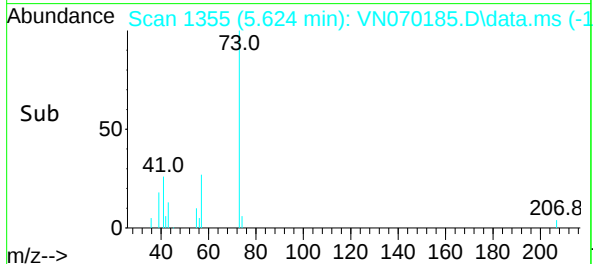
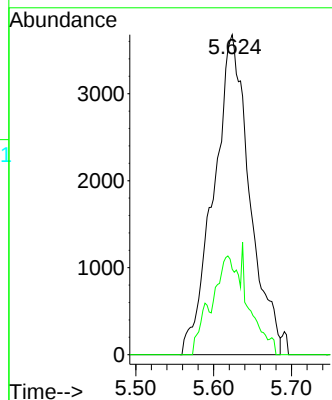
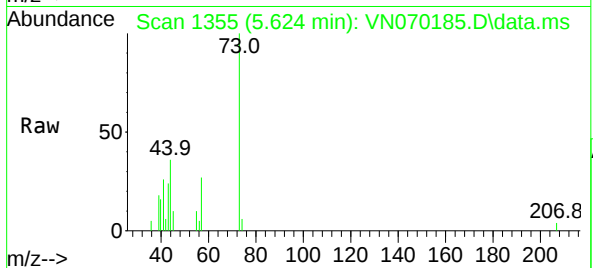
ClientSampleId :

Tgt Ion: 73 Resp: 11779

Ion Ratio Lower Upper

73 100

57 26.7 16.8 25.2#



#25

2-Butanone

Concen: 0.335 ug/l

RT: 7.348 min Scan# 1998

Delta R.T. 0.011 min

Lab File: VN070185.D

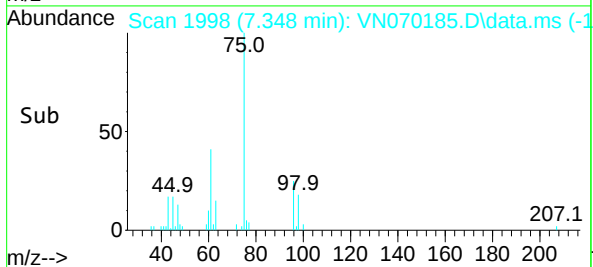
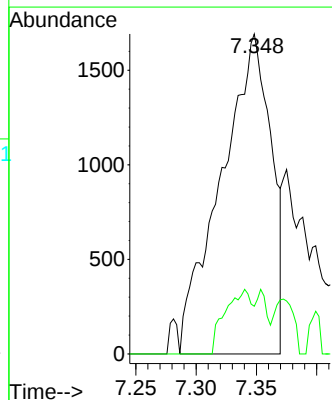
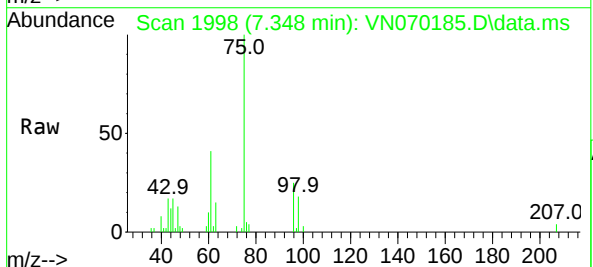
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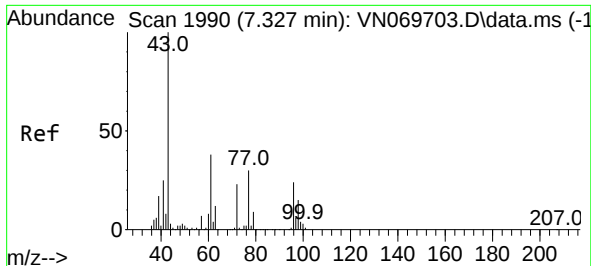
Tgt Ion: 43 Resp: 4892

Ion Ratio Lower Upper

43 100

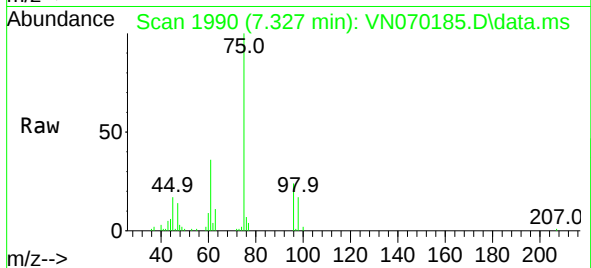
72 14.9 21.7 32.5#



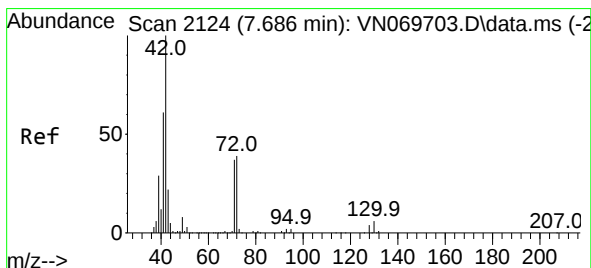
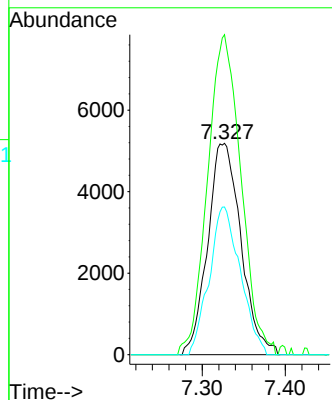
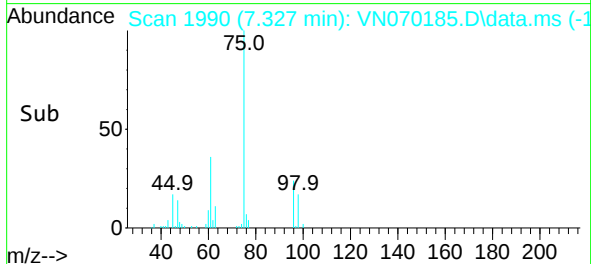


#27
 cis-1,2-Dichloroethene
 Concen: 0.999 ug/l
 RT: 7.327 min Scan# 1990
 Delta R.T. 0.000 min
 Lab File: VN070185.D
 Acq: 18 Dec 2021 1:07

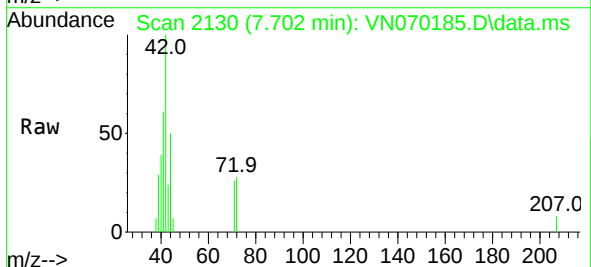
Instrument :
 MSVOA_N
 ClientSampleId :



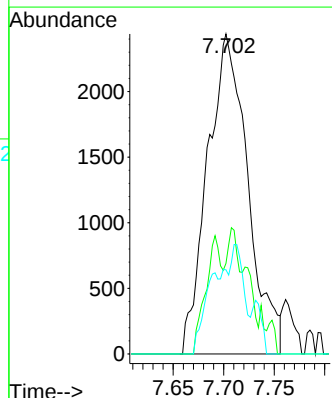
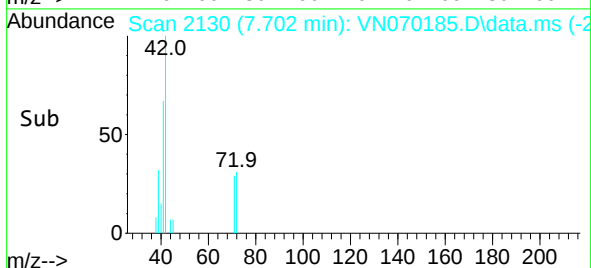
Tgt Ion: 96 Resp: 14436
 Ion Ratio Lower Upper
 96 100
 61 151.7 0.0 275.0
 98 65.4 0.0 129.6

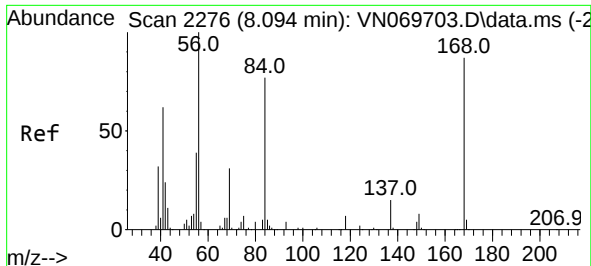


#29
 Tetrahydrofuran
 Concen: 0.764 ug/l
 RT: 7.702 min Scan# 2130
 Delta R.T. 0.016 min
 Lab File: VN070185.D
 Acq: 18 Dec 2021 1:07



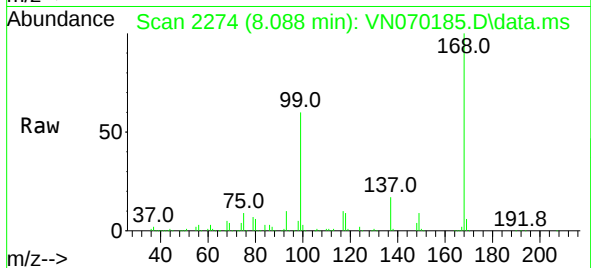
Tgt Ion: 42 Resp: 6766
 Ion Ratio Lower Upper
 42 100
 72 4.5 36.3 54.5#
 71 11.3 34.7 52.1#



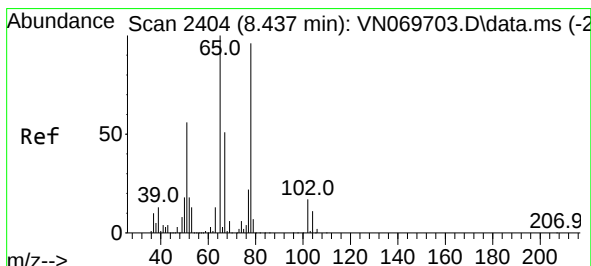
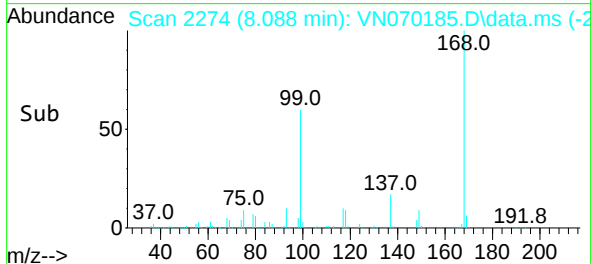
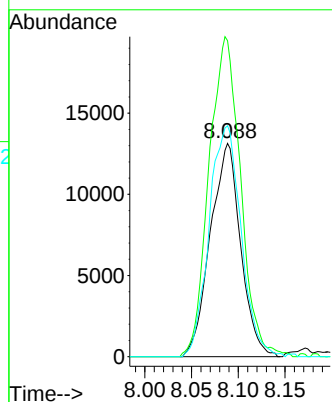


#31
Cyclohexane
Concen: 1.190 ug/l
RT: 8.088 min Scan# 21
Delta R.T. -0.005 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

Instrument :
MSVOA_N
ClientSampleId :

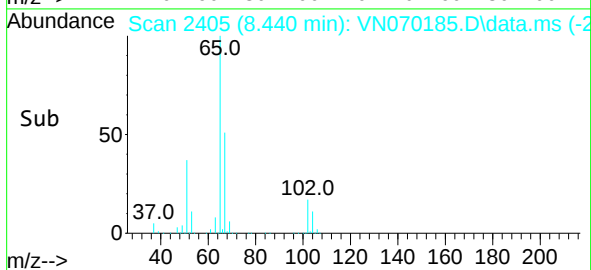
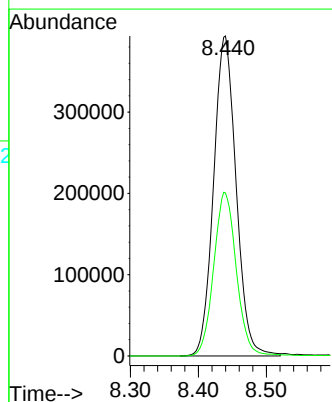
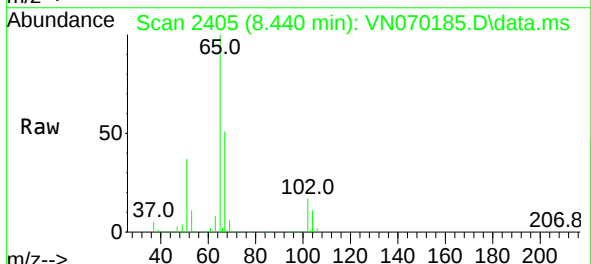


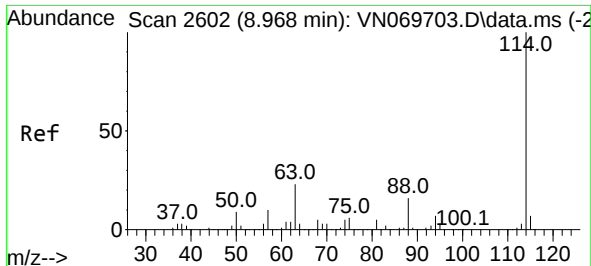
Tgt Ion: 56 Resp: 29560
Ion Ratio Lower Upper
56 100
69 148.1 27.1 40.7#
84 108.2 73.4 110.0



#33
1,2-Dichloroethane-d4
Concen: 50.803 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

Tgt Ion: 65 Resp: 906498
Ion Ratio Lower Upper
65 100
67 51.4 0.0 103.0

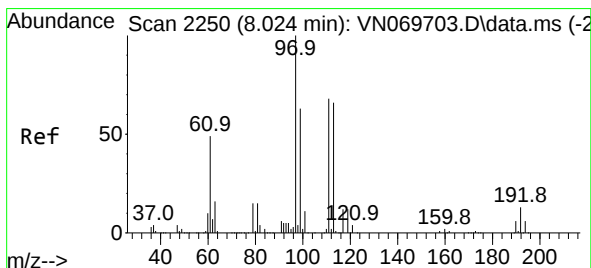
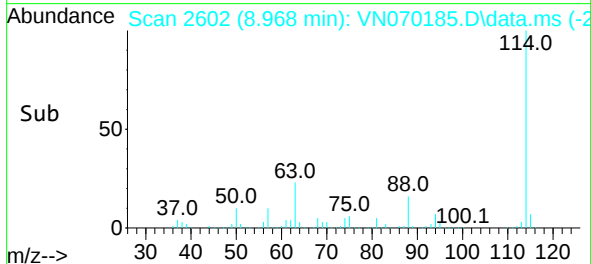
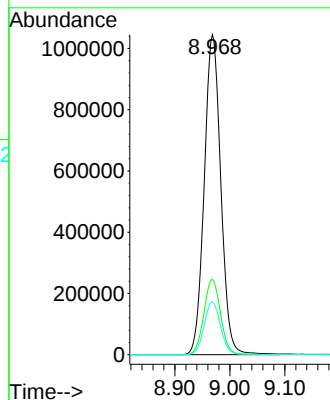
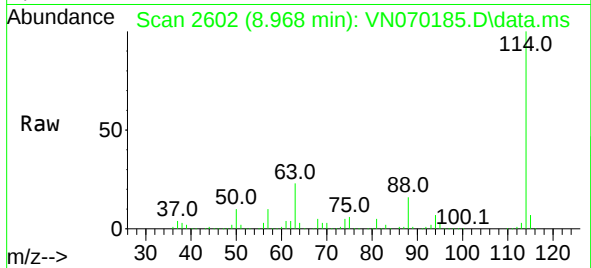




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. 0.000 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

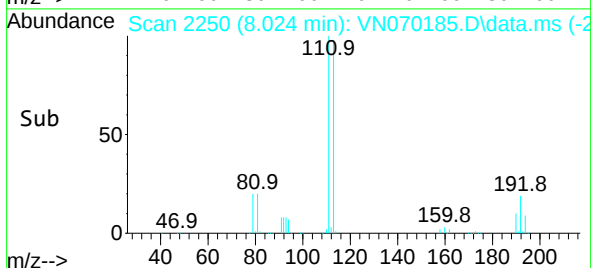
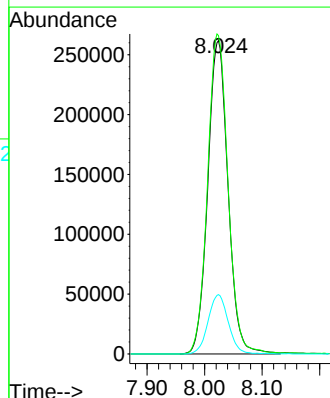
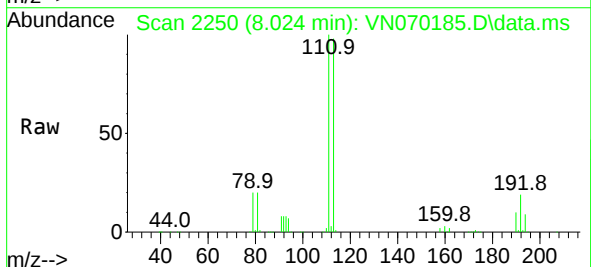
Instrument :
MSVOA_N
ClientSampleId :

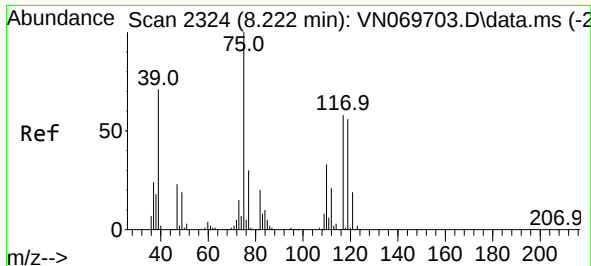
Tgt Ion:114 Resp: 2189617
Ion Ratio Lower Upper
114 100
63 23.5 0.0 37.8
88 16.5 0.0 27.4



#35
Dibromofluoromethane
Concen: 46.714 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.000 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

Tgt Ion:113 Resp: 640690
Ion Ratio Lower Upper
113 100
111 103.2 82.2 123.2
192 18.8 16.9 25.3

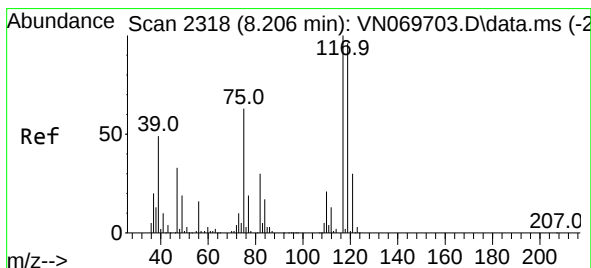
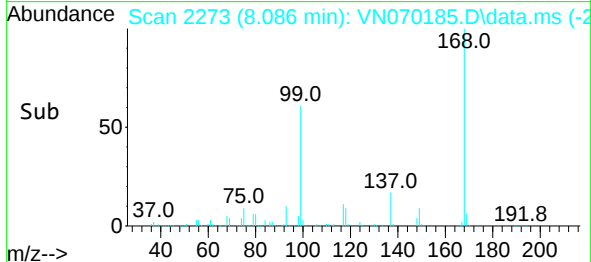
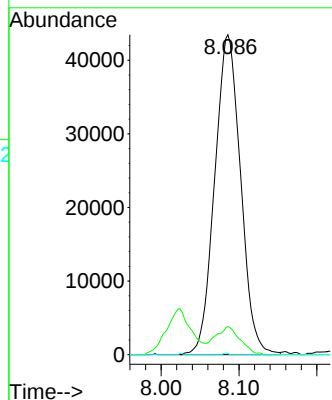
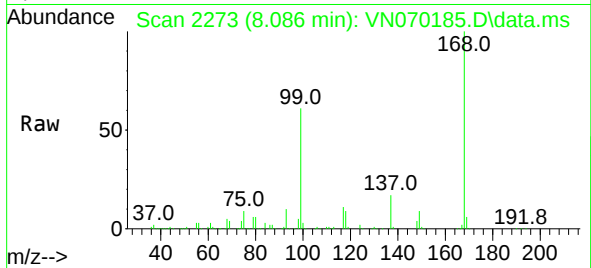




#36
1,1-Dichloropropene
Concen: 4.809 ug/l
RT: 8.086 min Scan# 211
Delta R.T. -0.137 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

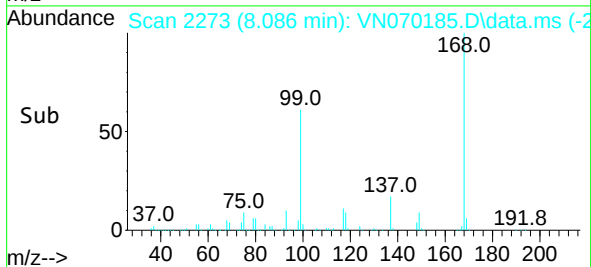
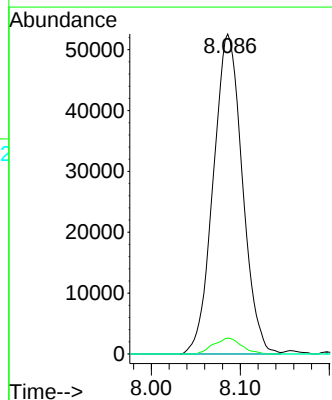
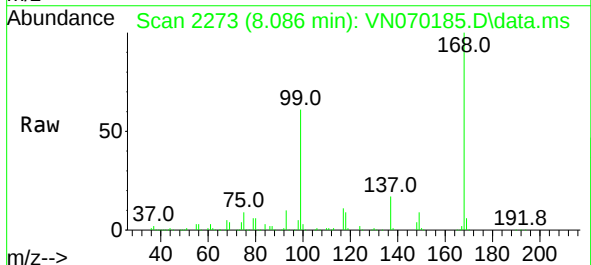
Instrument :
MSVOA_N
ClientSampleId :

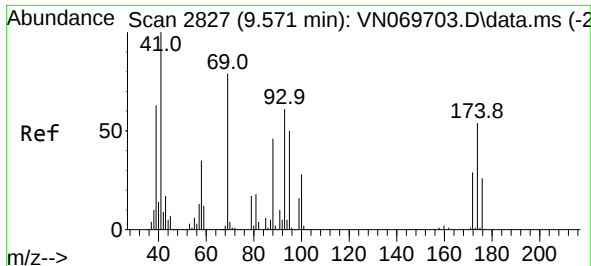
Tgt Ion: 75 Resp: 100234
Ion Ratio Lower Upper
75 100
110 8.4 18.4 55.2#
77 0.1 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 5.841 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.120 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

Tgt Ion: 117 Resp: 119387
Ion Ratio Lower Upper
117 100
119 5.0 76.1 114.1#
121 0.0 24.2 36.2#





#49

1,4-Dioxane

Concen: 2.403 ug/l

RT: 9.582 min Scan# 21

Delta R.T. 0.011 min

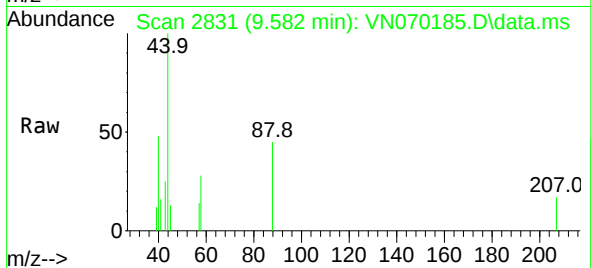
Lab File: VN070185.D

Acq: 18 Dec 2021 1:07

Instrument :

MSVOA_N

ClientSampleId :



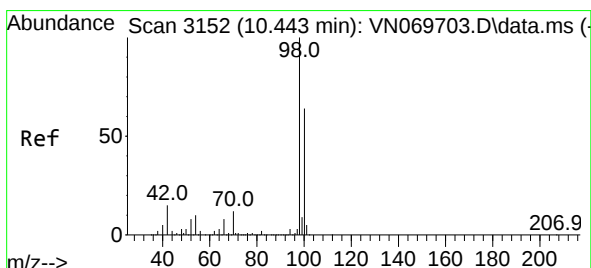
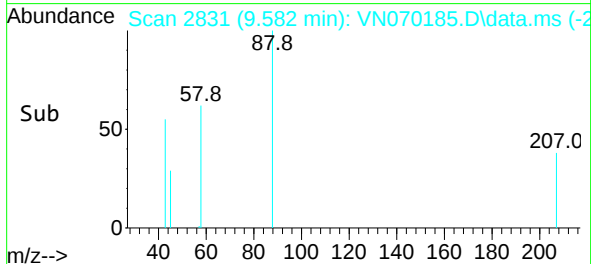
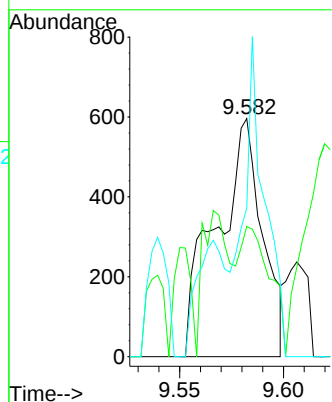
Tgt Ion: 88 Resp: 924

Ion Ratio Lower Upper

88 100

43 35.1 23.4 35.2

58 59.8 50.6 75.8



#50

Toluene-d8

Concen: 52.473 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.000 min

Lab File: VN070185.D

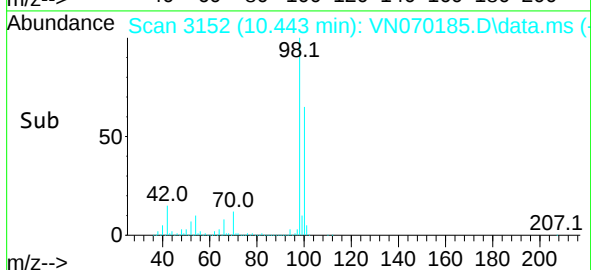
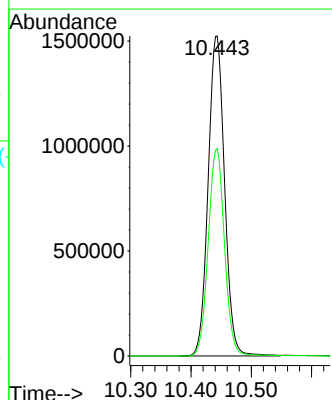
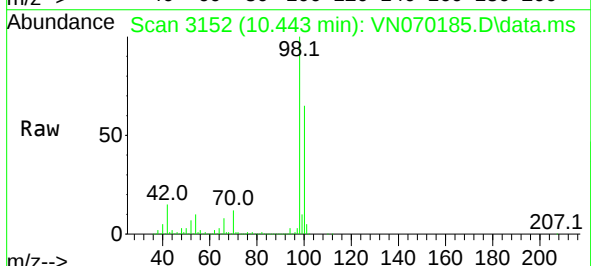
Acq: 18 Dec 2021 1:07

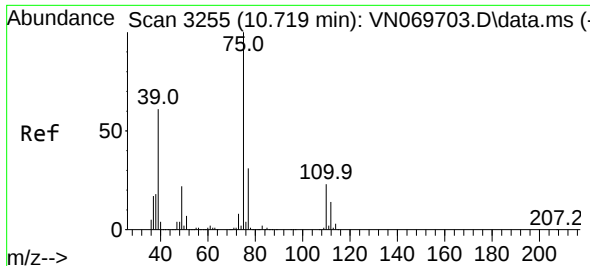
Tgt Ion: 98 Resp: 2889746

Ion Ratio Lower Upper

98 100

100 64.3 50.4 75.6

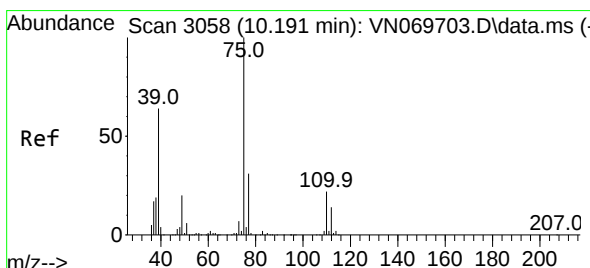
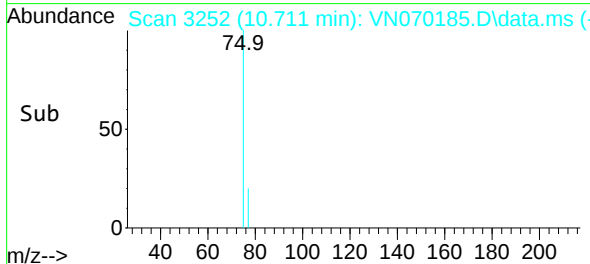
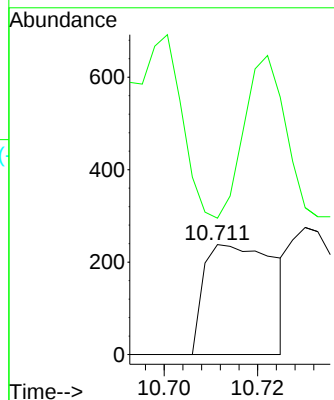
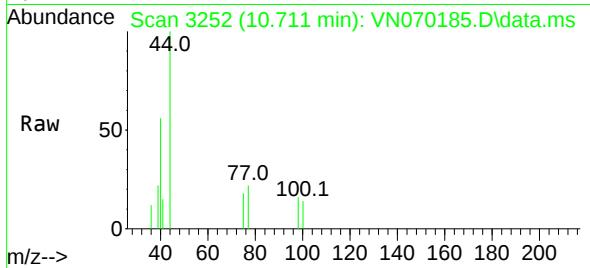




#53
t-1,3-Dichloropropene
Concen: 2.803 ug/l
RT: 10.711 min Scan# 31
Delta R.T. -0.008 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

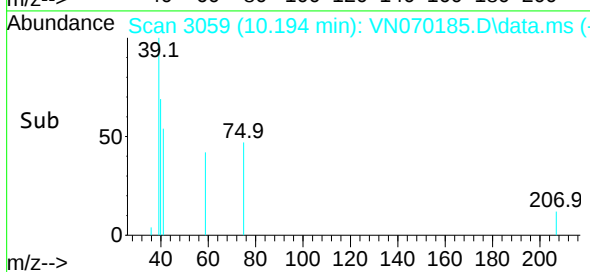
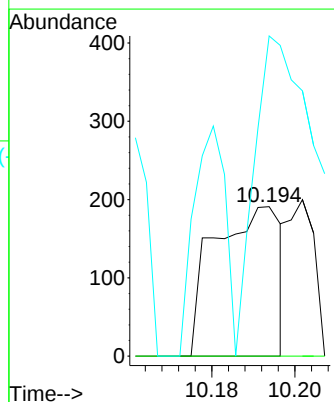
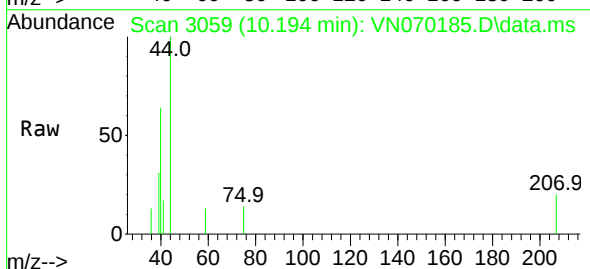
Instrument :
MSVOA_N
ClientSampleId :

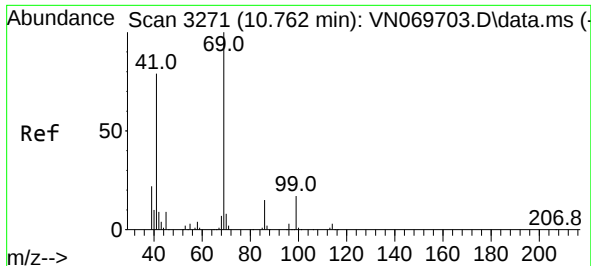
Tgt Ion: 75 Resp: 248
Ion Ratio Lower Upper
75 100
77 0.0 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 2.006 ug/l
RT: 10.194 min Scan# 3059
Delta R.T. 0.003 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

Tgt Ion: 75 Resp: 212
Ion Ratio Lower Upper
75 100
77 0.0 26.4 39.6#
39 214.1 42.5 63.7#

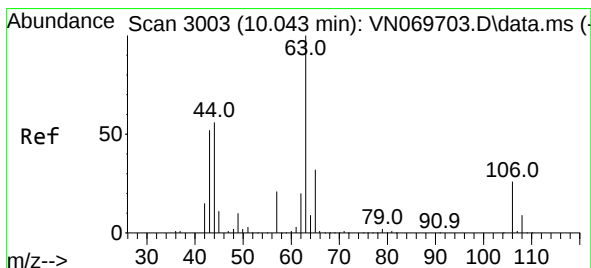
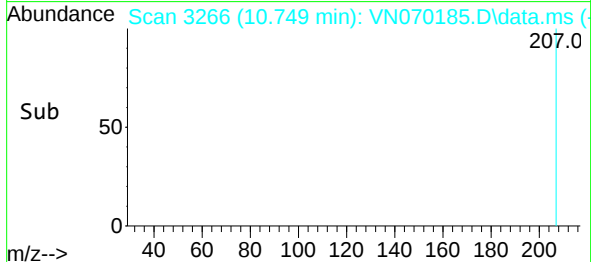
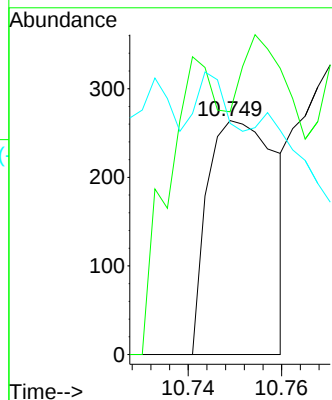
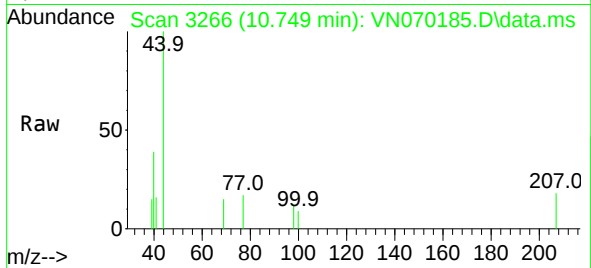




#56
Ethyl methacrylate
Concen: 2.288 ug/l
RT: 10.749 min Scan# 31
Delta R.T. -0.013 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

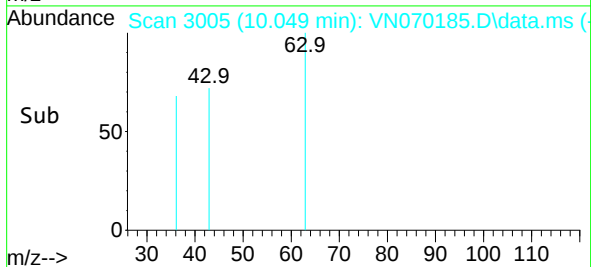
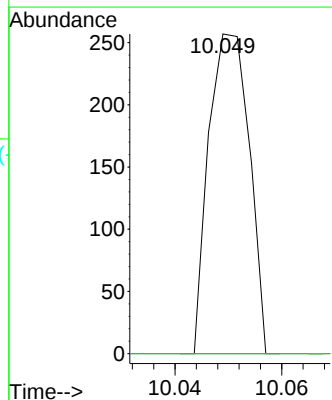
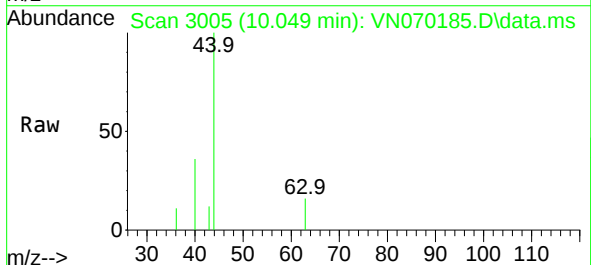
Instrument :
MSVOA_N
ClientSampleId :

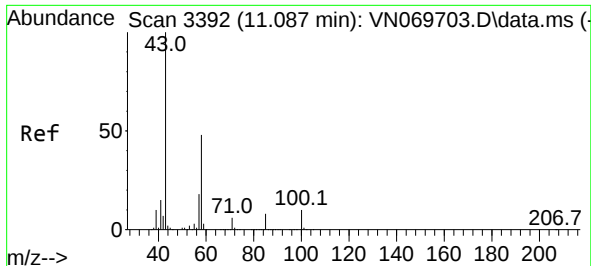
Tgt Ion: 69 Resp: 267
Ion Ratio Lower Upper
69 100
41 69.7 51.4 77.0
39 0.0 34.6 52.0#



#58
2-Chloroethyl Vinyl ether
Concen: 18.405 ug/l
RT: 10.049 min Scan# 3005
Delta R.T. 0.006 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

Tgt Ion: 63 Resp: 136
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

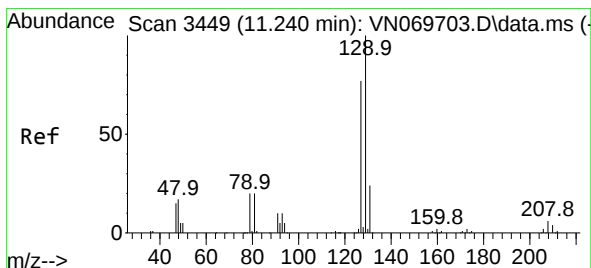
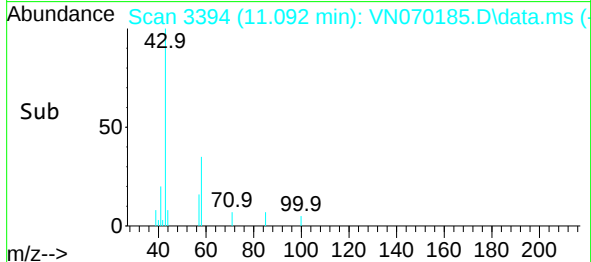
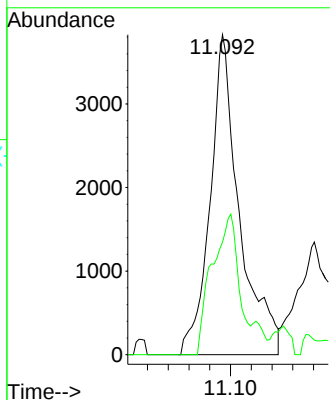
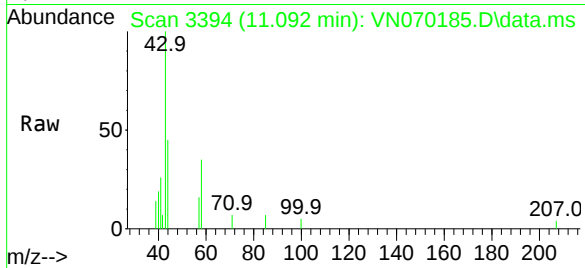




#59
2-Hexanone
Concen: 0.332 ug/l
RT: 11.092 min Scan# 31
Delta R.T. 0.005 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

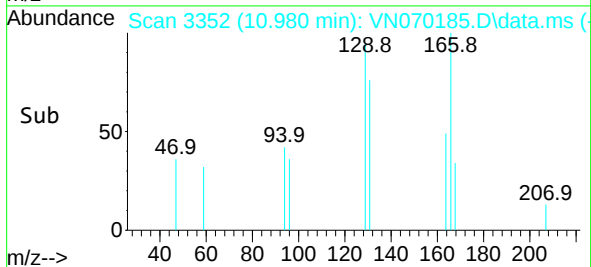
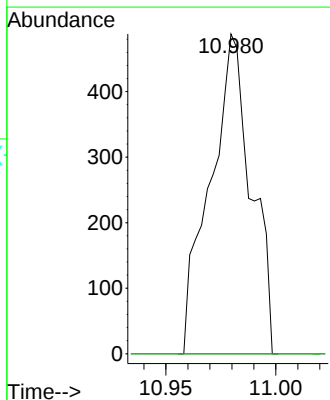
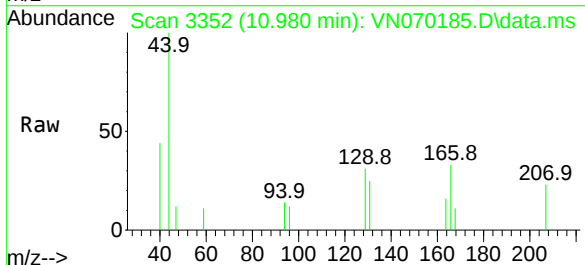
Instrument :
MSVOA_N
ClientSampleId :

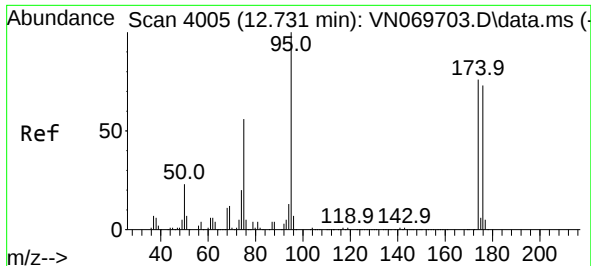
Tgt Ion: 43 Resp: 7471
Ion Ratio Lower Upper
43 100
58 40.1 26.9 80.7



#60
Dibromochloromethane
Concen: 2.412 ug/l
RT: 10.980 min Scan# 3352
Delta R.T. -0.260 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

Tgt Ion: 129 Resp: 634
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

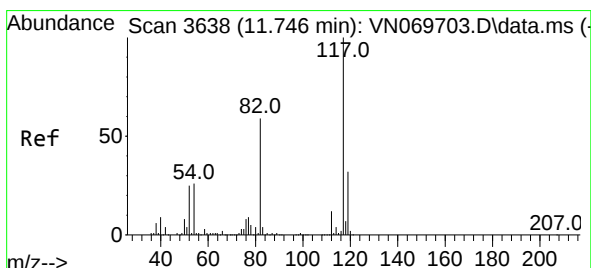
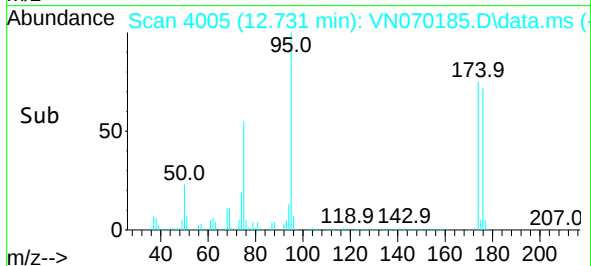
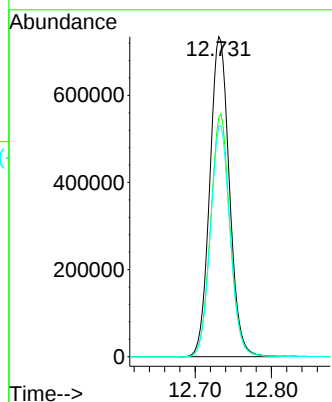
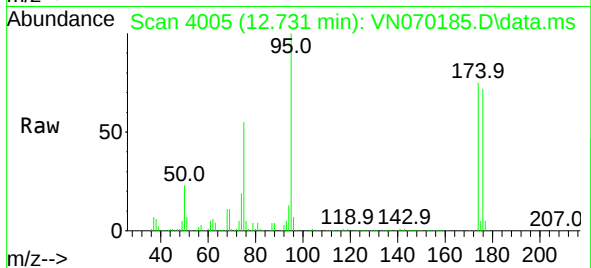




#62
4-Bromofluorobenzene
Concen: 65.612 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

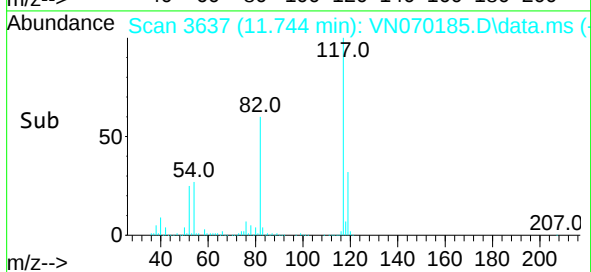
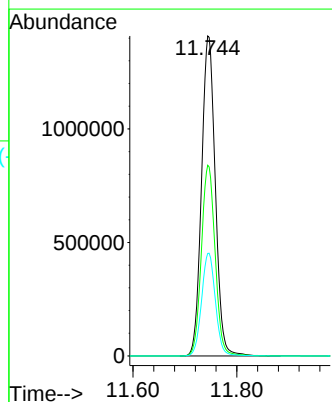
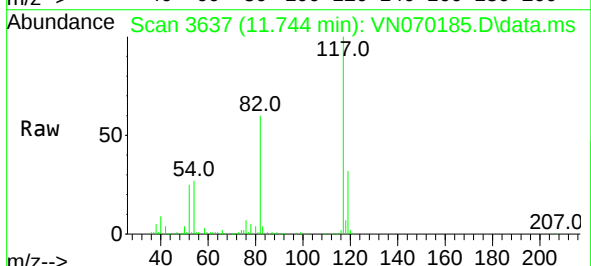
Instrument :
MSVOA_N
ClientSampleId :

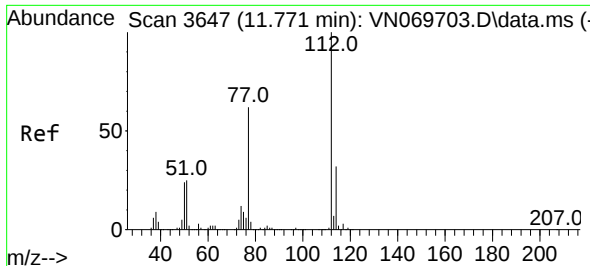
Tgt Ion: 95 Resp: 1309043
Ion Ratio Lower Upper
95 100
174 75.2 0.0 187.2
176 72.4 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 3637
Delta R.T. -0.002 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

Tgt Ion: 117 Resp: 2595010
Ion Ratio Lower Upper
117 100
82 59.6 42.4 63.6
119 32.0 25.4 38.2

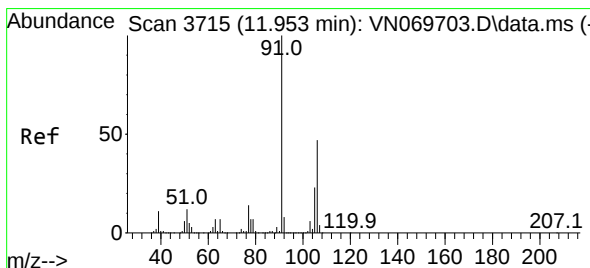
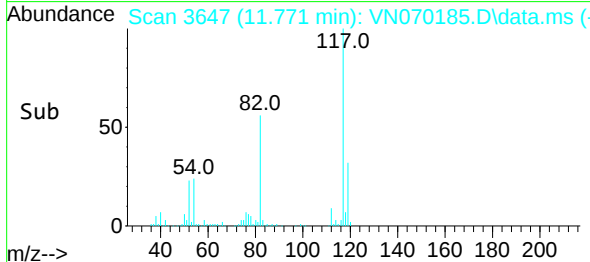
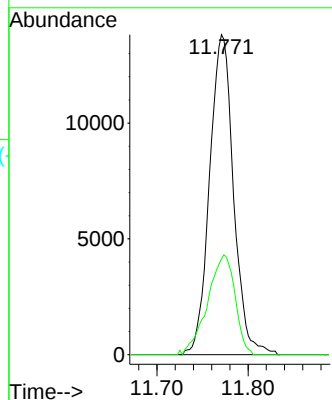
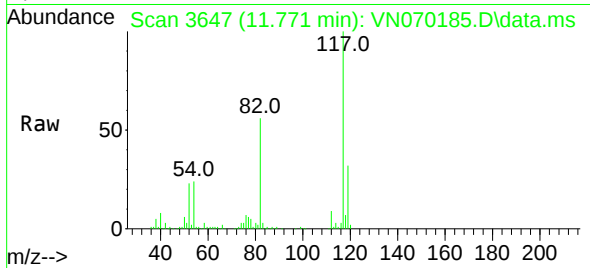




#65
Chlorobenzene
Concen: 0.479 ug/l
RT: 11.771 min Scan# 3071
Delta R.T. -0.000 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

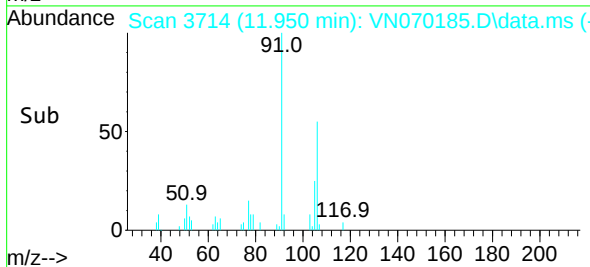
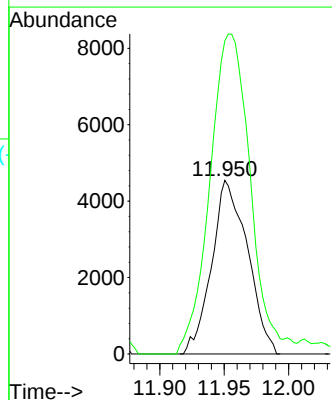
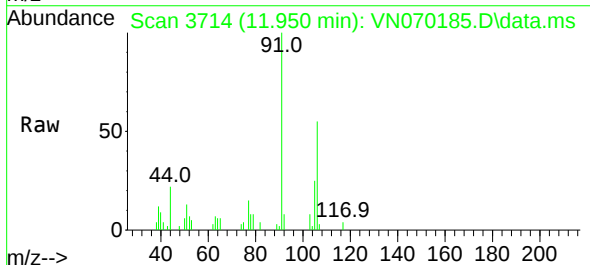
Instrument :
MSVOA_N
ClientSampleId :

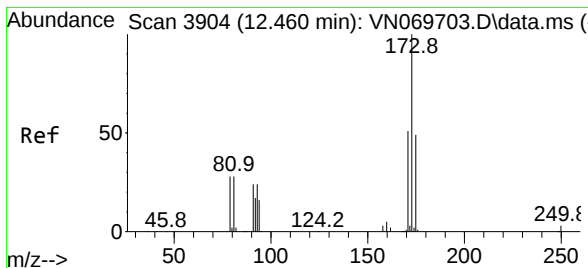
Tgt Ion:112 Resp: 25224
Ion Ratio Lower Upper
112 100
114 29.9 25.4 38.0



#68
m/p-Xylenes
Concen: 0.252 ug/l
RT: 11.950 min Scan# 3714
Delta R.T. -0.002 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

Tgt Ion:106 Resp: 8789
Ion Ratio Lower Upper
106 100
91 207.9 160.6 240.8





#71

Bromoform

Concen: 2.914 ug/l

RT: 12.726 min Scan# 4003

Delta R.T. 0.266 min

Lab File: VN070185.D

Acq: 18 Dec 2021 1:07

Instrument :

MSVOA_N

ClientSampleId :

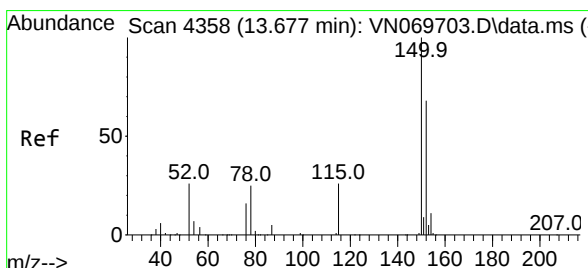
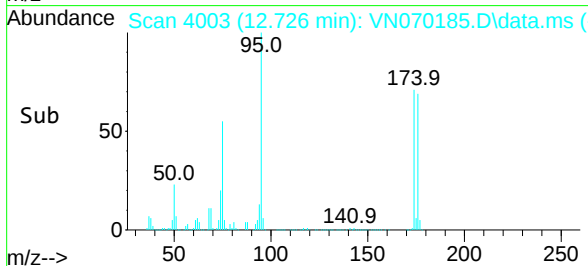
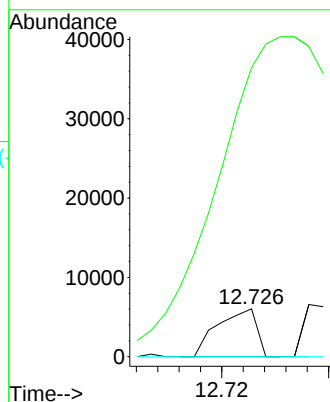
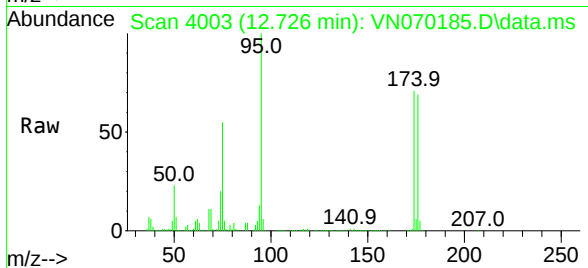
Tgt Ion:173 Resp: 3062

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: 13.675 min Scan# 4357

Delta R.T. -0.002 min

Lab File: VN070185.D

Acq: 18 Dec 2021 1:07

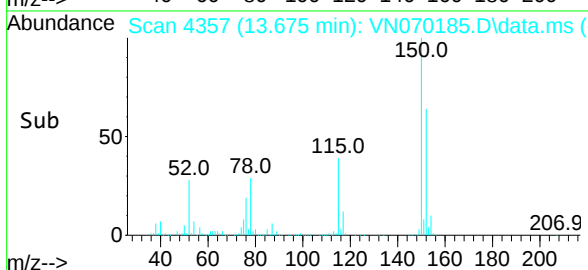
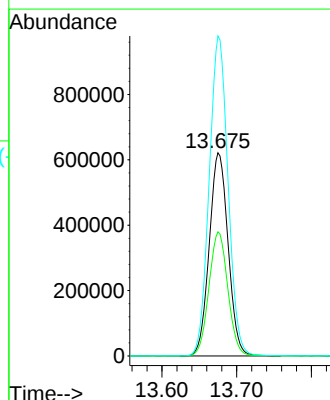
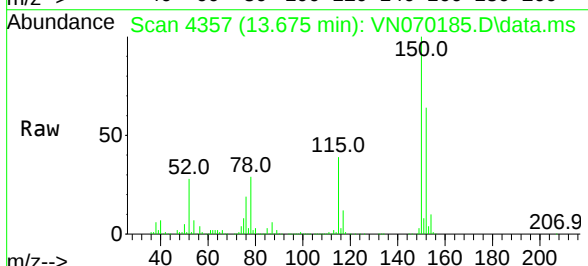
Tgt Ion:152 Resp: 1090585

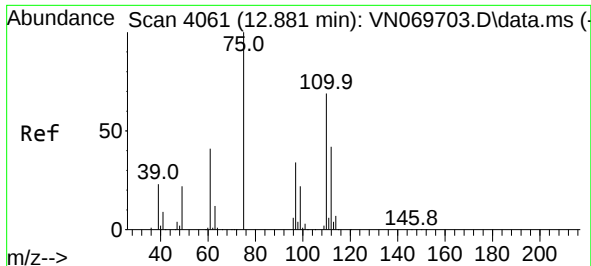
Ion Ratio Lower Upper

152 100

115 61.2 27.5 82.5

150 157.0 0.0 344.4

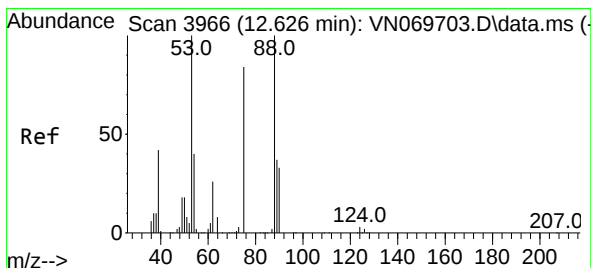
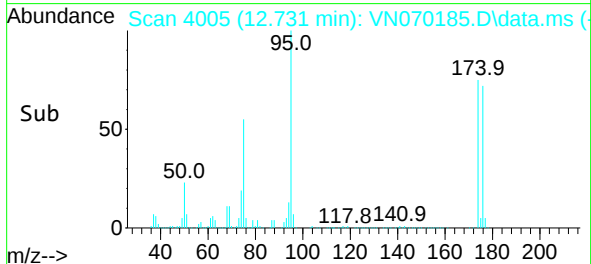
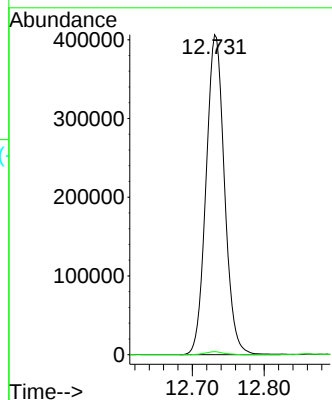
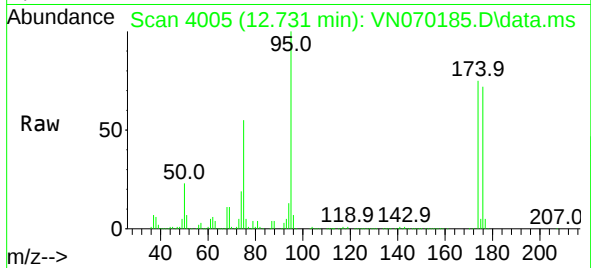




#76
1,2,3-Trichloropropane
Concen: 23.163 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

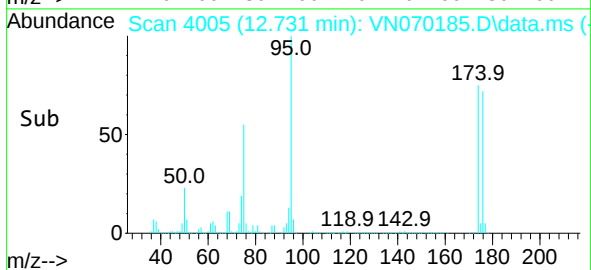
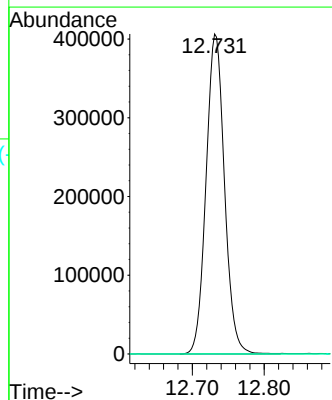
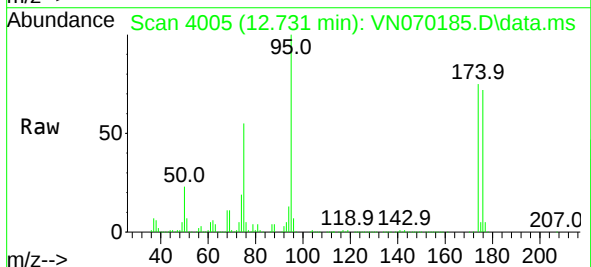
Instrument :
MSVOA_N
ClientSampleId :

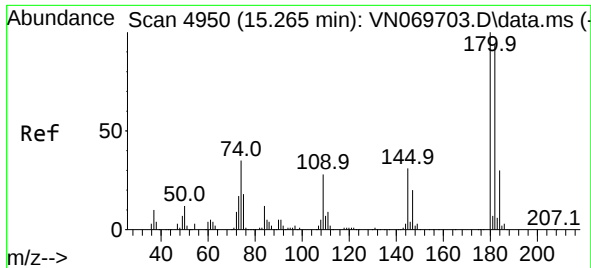
Tgt Ion: 75 Resp: 724435
Ion Ratio Lower Upper
75 100
77 1.0 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.713 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

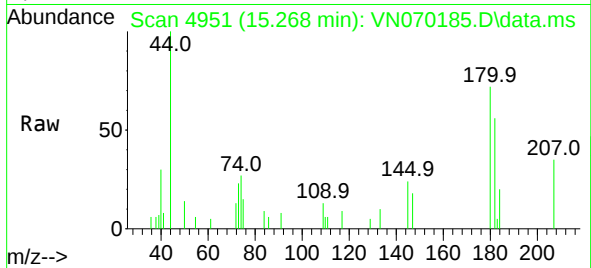
Tgt Ion: 75 Resp: 724435
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#



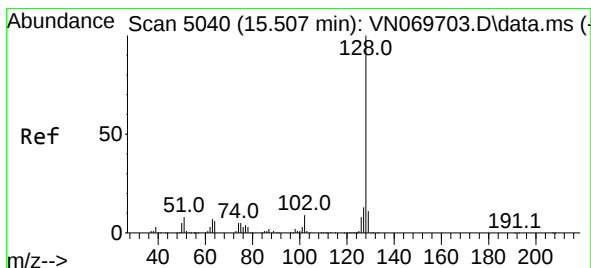
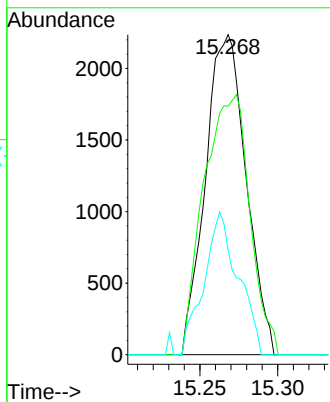
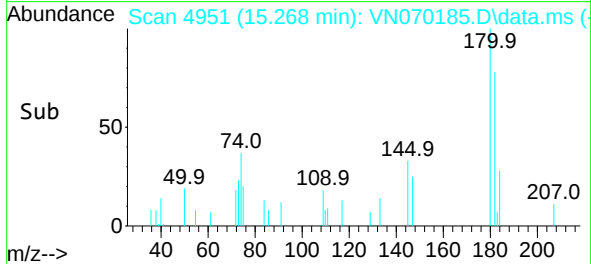


#93
1,2,4-Trichlorobenzene
Concen: 3.092 ug/l
RT: 15.268 min Scan# 4950
Delta R.T. 0.003 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07

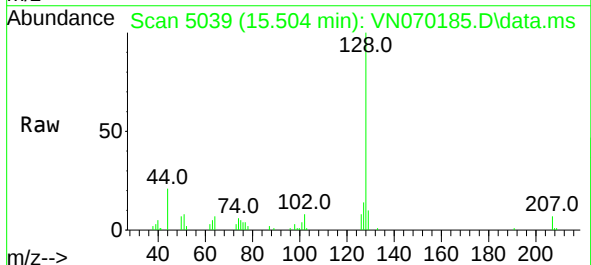
Instrument :
MSVOA_N
ClientSampleId :



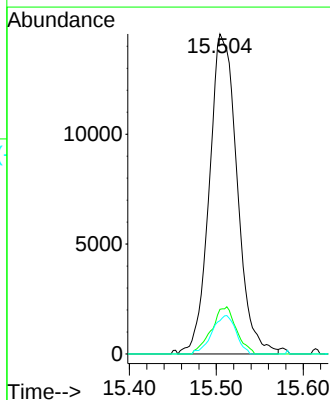
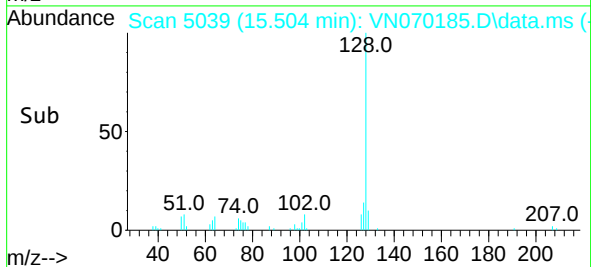
Tgt Ion:180 Resp: 4059
Ion Ratio Lower Upper
180 100
182 91.6 48.3 144.9
145 37.4 14.5 43.5

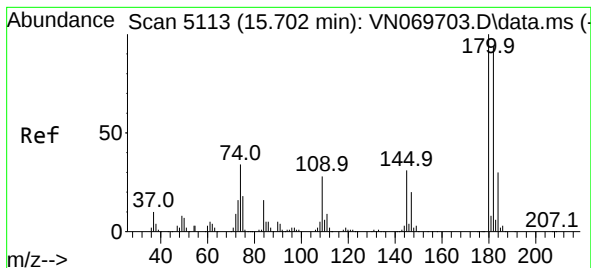


#95
Naphthalene
Concen: 4.543 ug/l
RT: 15.504 min Scan# 5039
Delta R.T. -0.003 min
Lab File: VN070185.D
Acq: 18 Dec 2021 1:07



Tgt Ion:128 Resp: 32331
Ion Ratio Lower Upper
128 100
127 13.1 10.5 15.7
129 10.4 8.7 13.1





#96

1,2,3-Trichlorobenzene

Concen: 2.672 ug/l

RT: 15.703 min Scan# 51

Delta R.T. 0.001 min

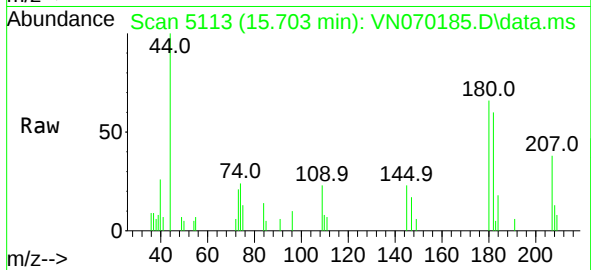
Lab File: VN070185.D

Acq: 18 Dec 2021 1:07

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:180 Resp: 4339

Ion Ratio Lower Upper

180 100

182 96.7 47.4 142.2

145 36.4 15.0 45.1

