

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121321\
 Data File : VN070049.D
 Acq On : 13 Dec 2021 23:42
 Operator : JC/MD
 Sample : M5007-03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 14 07:29:43 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)

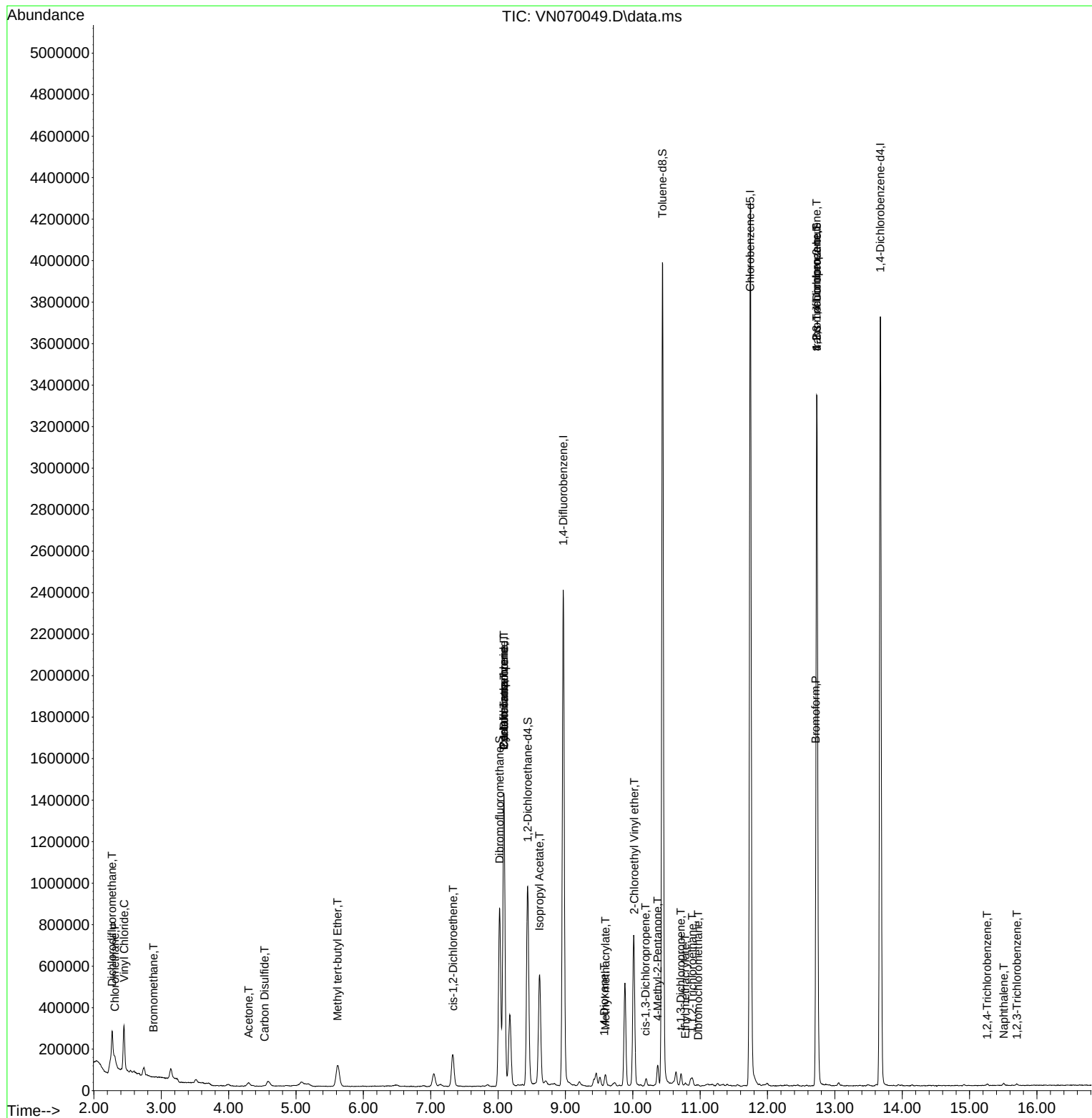
Internal Standards						
1) Pentafluorobenzene	8.088	168	1042505	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2004989	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2353236	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	970680	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	851384	52.893	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 105.780%	
35) Dibromofluoromethane	8.021	113	623713	49.663	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 99.320%	
50) Toluene-d8	10.440	98	2682916	53.203	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 106.400%	
62) 4-Bromofluorobenzene	12.731	95	1166296	63.840	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 127.680%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.271	85	16312	1.342	ug/l	94
3) Chloromethane	2.309	50	3341	0.219	ug/l	95
4) Vinyl Chloride	2.448	62	101112	7.219	ug/l	100
5) Bromomethane	2.882	94	1921	0.252	ug/l #	73
16) Acetone	4.296	43	29890	3.087	ug/l	97
17) Carbon Disulfide	4.532	76	5323	0.207	ug/l #	84
19) Methyl tert-butyl Ether	5.615	73	128828	3.337	ug/l #	77
27) cis-1,2-Dichloroethene	7.332	96	87331	6.702	ug/l	95
31) Cyclohexane	8.088	56	29121	1.300	ug/l #	42
36) 1,1-Dichloropropene	8.085	75	87804	4.600	ug/l #	48
38) Carbon Tetrachloride	8.085	117	105137	5.617	ug/l #	17
43) Isopropyl Acetate	8.614	43	112019	2.665	ug/l #	55
48) Methyl methacrylate	9.593	41	15232	0.776	ug/l #	36
49) 1,4-Dioxane	9.577	88	83	0.236	ug/l #	27
51) 4-Methyl-2-Pentanone	10.368	43	11818	0.433	ug/l #	87
53) t-1,3-Dichloropropene	10.711	75	174	2.801	ug/l #	84
54) cis-1,3-Dichloropropene	10.188	75	166	2.005	ug/l #	1
55) 1,1,2-Trichloroethane	10.880	97	7683	0.535	ug/l #	36
56) Ethyl methacrylate	10.778	69	1271	2.324	ug/l #	50
58) 2-Chloroethyl Vinyl ether	10.022	63	286	18.425	ug/l #	45
60) Dibromochloromethane	10.969	129	425	2.402	ug/l #	11
71) Bromoform	12.717	173	1553	2.833	ug/l #	29
76) 1,2,3-Trichloropropane	12.731	75	646414	23.222	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	646414	73.889	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.262	180	2509	3.026	ug/l	88
95) Naphthalene	15.507	128	9886	4.177	ug/l	97
96) 1,2,3-Trichlorobenzene	15.702	180	2855	2.611	ug/l	94

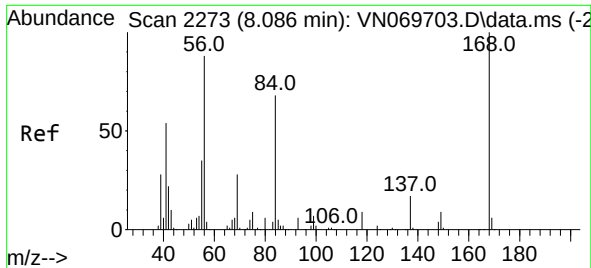
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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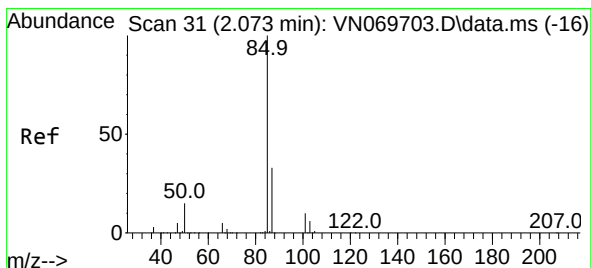
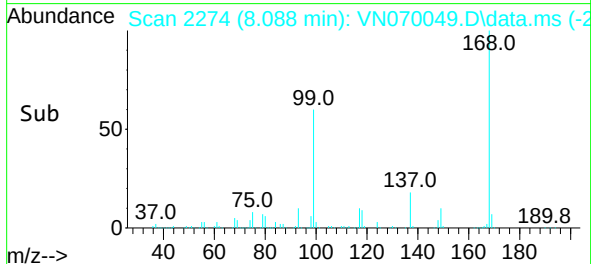
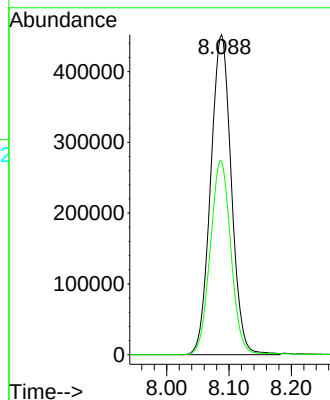
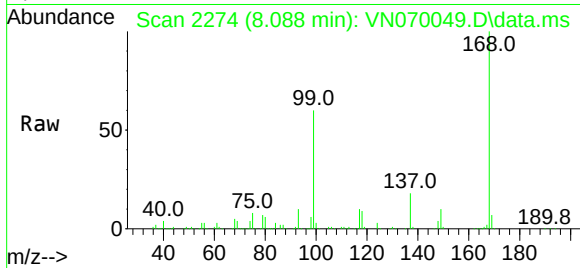




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

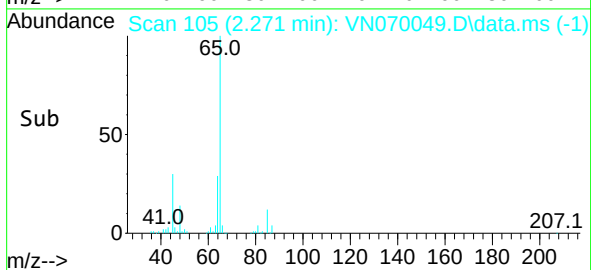
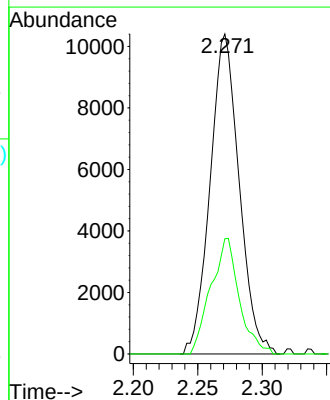
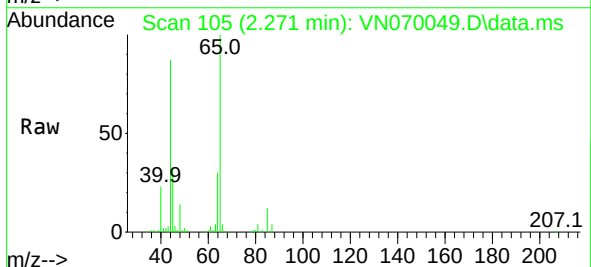
Instrument :
MSVOA_N
ClientSampleId :

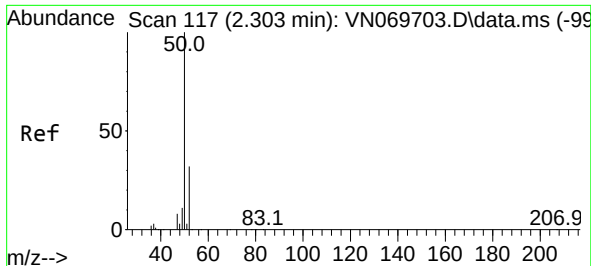
Tgt Ion:168 Resp: 1042505
Ion Ratio Lower Upper
168 100
99 60.4 41.3 61.9



#2
Dichlorodifluoromethane
Concen: 1.342 ug/l
RT: 2.271 min Scan# 105
Delta R.T. 0.198 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

Tgt Ion: 85 Resp: 16312
Ion Ratio Lower Upper
85 100
87 36.0 16.3 48.9

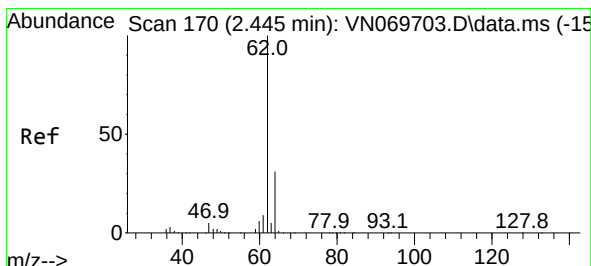
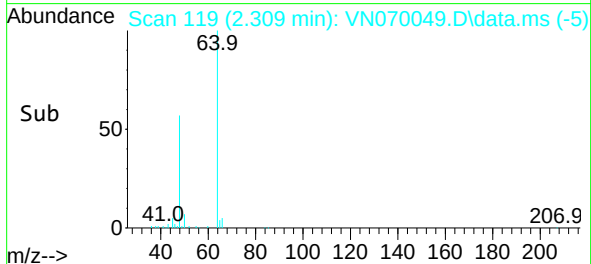
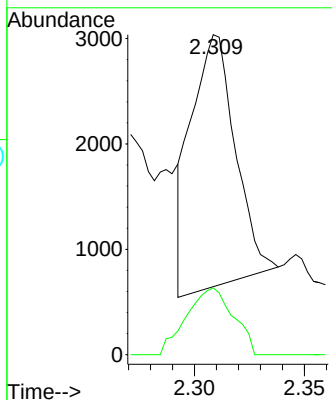
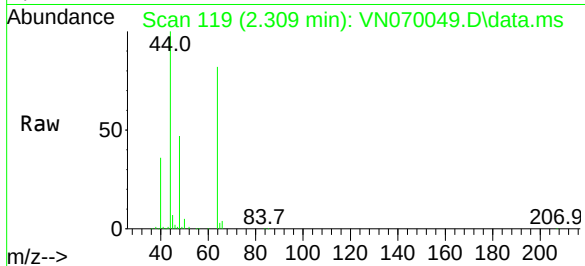




#3
Chloromethane
Concen: 0.219 ug/l
RT: 2.309 min Scan# 117
Delta R.T. 0.005 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

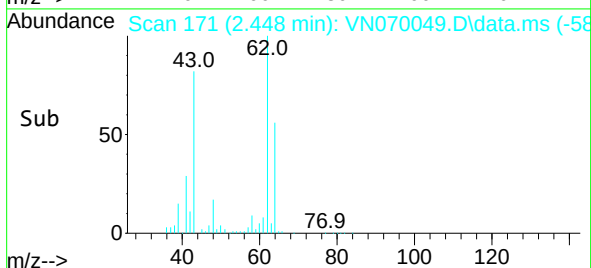
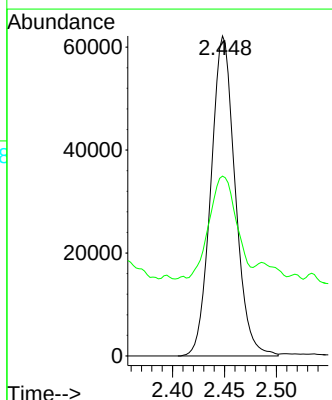
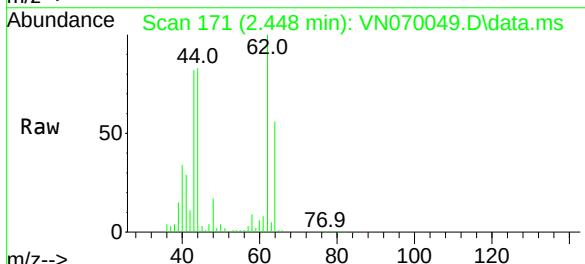
Instrument :
MSVOA_N
ClientSampleId :

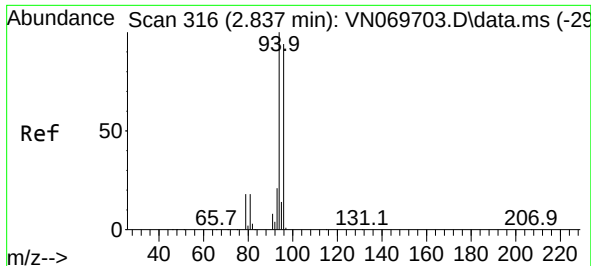
Tgt Ion: 50 Resp: 3341
Ion Ratio Lower Upper
50 100
52 28.8 25.4 38.0



#4
Vinyl Chloride
Concen: 7.219 ug/l
RT: 2.448 min Scan# 171
Delta R.T. 0.003 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

Tgt Ion: 62 Resp: 101112
Ion Ratio Lower Upper
62 100
64 32.0 25.8 38.6

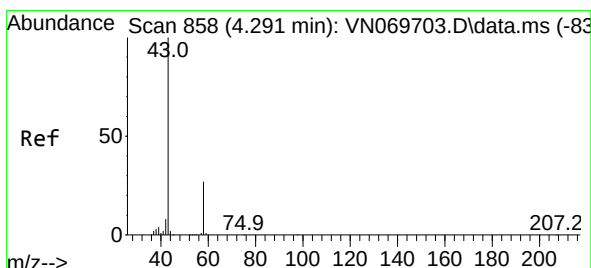
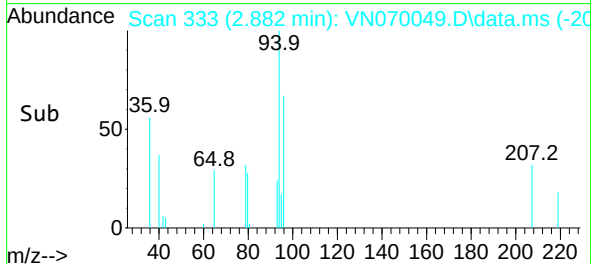
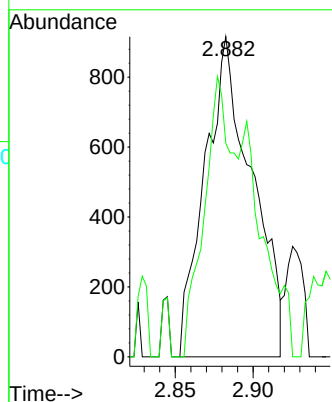
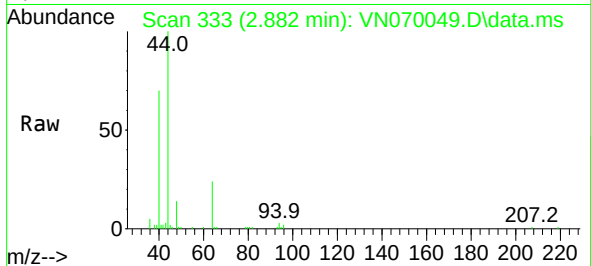




#5
Bromomethane
Concen: 0.252 ug/l
RT: 2.882 min Scan# 316
Delta R.T. 0.046 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

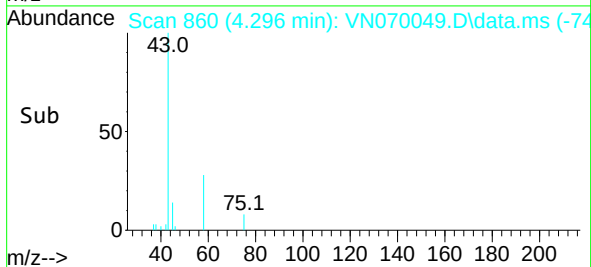
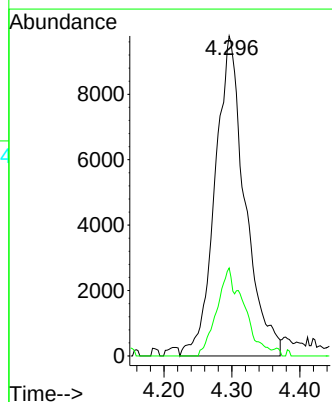
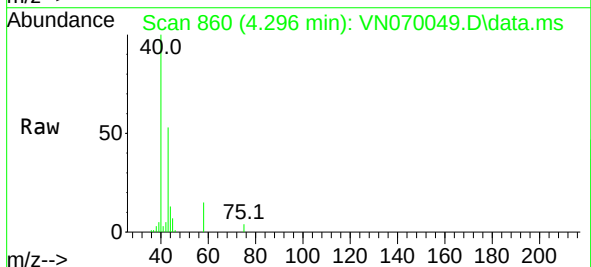
Instrument :
MSVOA_N
ClientSampleId :

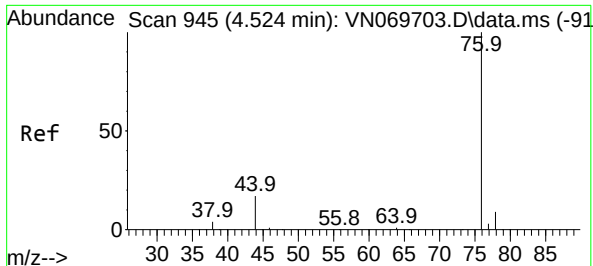
Tgt Ion: 94 Resp: 1921
Ion Ratio Lower Upper
94 100
96 66.7 73.8 110.8#



#16
Acetone
Concen: 3.087 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.005 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

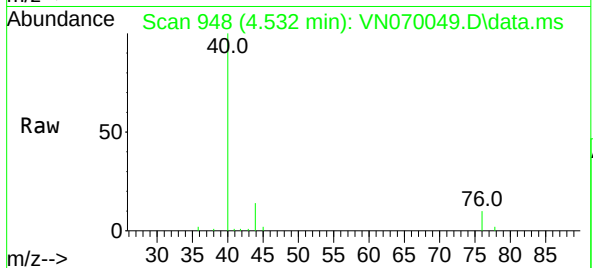
Tgt Ion: 43 Resp: 29890
Ion Ratio Lower Upper
43 100
58 27.5 23.1 34.7



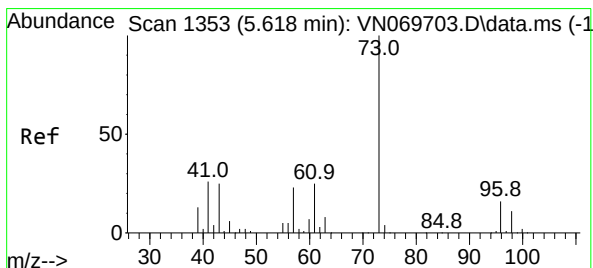
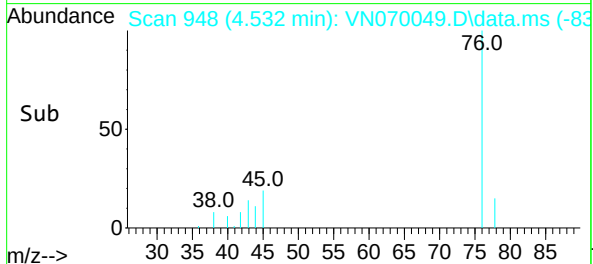
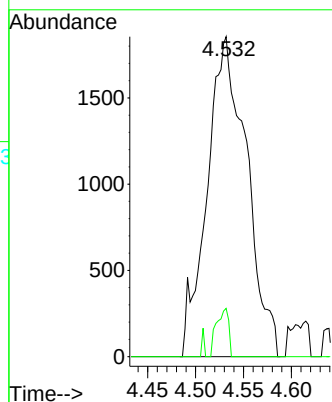


#17
Carbon Disulfide
Concen: 0.207 ug/l
RT: 4.532 min Scan# 945
Delta R.T. 0.008 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

Instrument :
MSVOA_N
ClientSampleId :

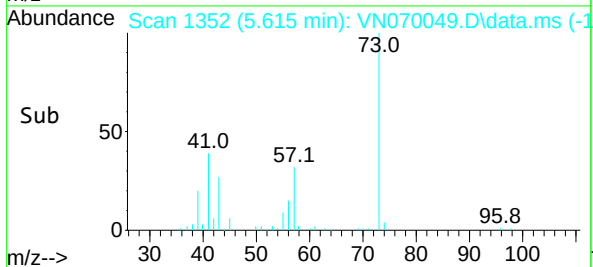
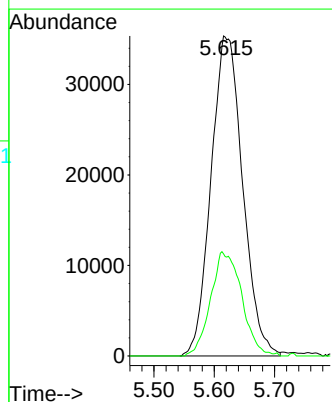
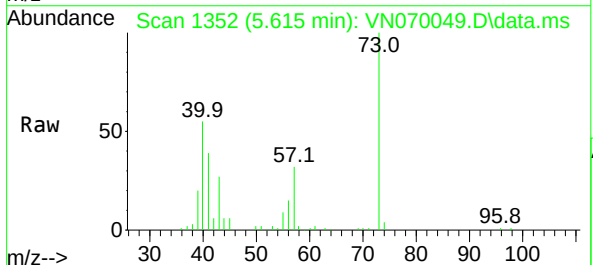


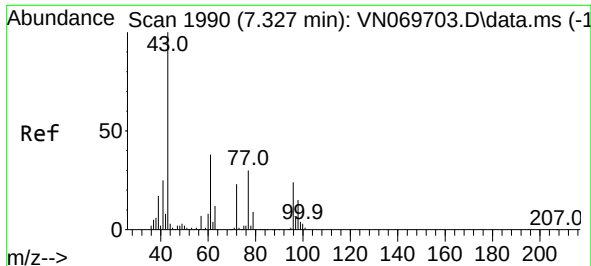
Tgt Ion: 76 Resp: 5323
Ion Ratio Lower Upper
76 100
78 15.1 7.5 11.3#



#19
Methyl tert-butyl Ether
Concen: 3.337 ug/l
RT: 5.615 min Scan# 1352
Delta R.T. -0.003 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

Tgt Ion: 73 Resp: 128828
Ion Ratio Lower Upper
73 100
57 31.9 16.8 25.2#





#27

cis-1,2-Dichloroethene

Concen: 6.702 ug/l

RT: 7.332 min Scan# 1990

Delta R.T. 0.005 min

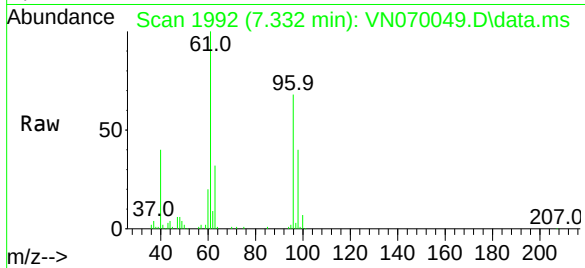
Lab File: VN070049.D

Acq: 13 Dec 2021 23:42

Instrument :

MSVOA_N

ClientSampleId :



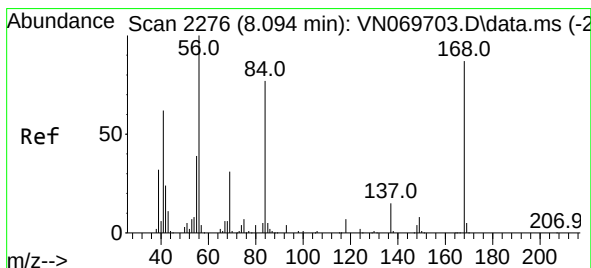
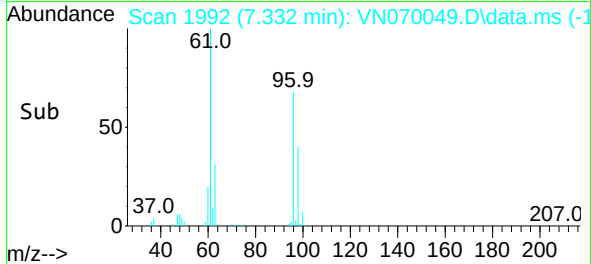
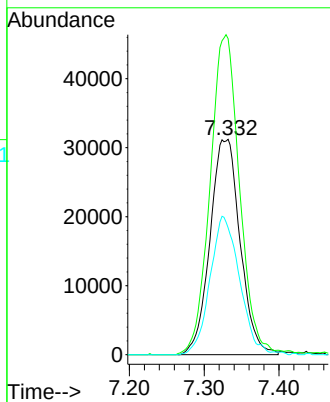
Tgt Ion: 96 Resp: 87331

Ion Ratio Lower Upper

96 100

61 145.2 0.0 275.0

98 62.9 0.0 129.6



#31

Cyclohexane

Concen: 1.300 ug/l

RT: 8.088 min Scan# 2274

Delta R.T. -0.005 min

Lab File: VN070049.D

Acq: 13 Dec 2021 23:42

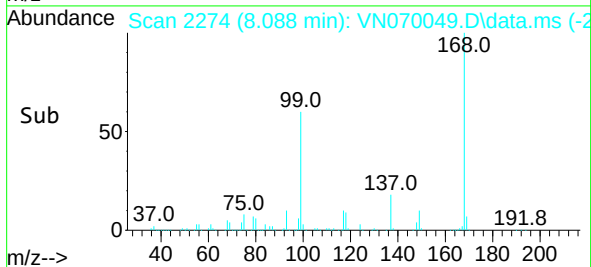
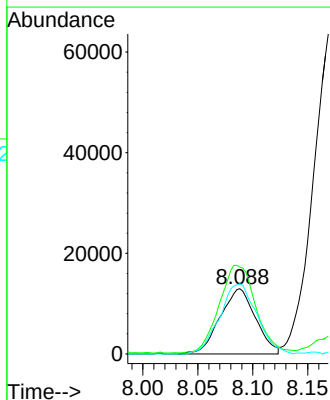
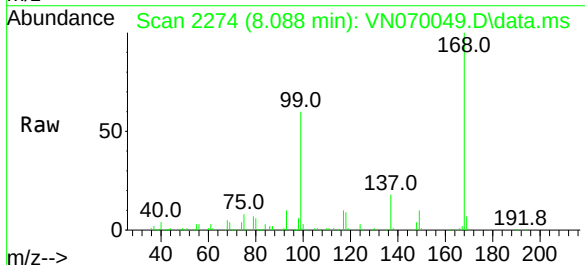
Tgt Ion: 56 Resp: 29121

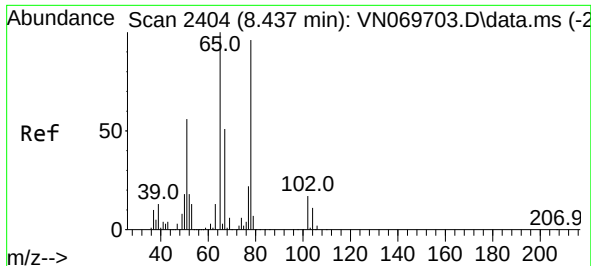
Ion Ratio Lower Upper

56 100

69 131.2 27.1 40.7#

84 107.7 73.4 110.0





#33

1,2-Dichloroethane-d4

Concen: 52.893 ug/l

RT: 8.440 min Scan# 2404

Delta R.T. 0.003 min

Lab File: VN070049.D

Acq: 13 Dec 2021 23:42

Instrument :

MSVOA_N

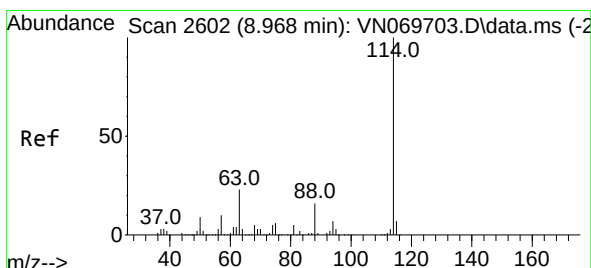
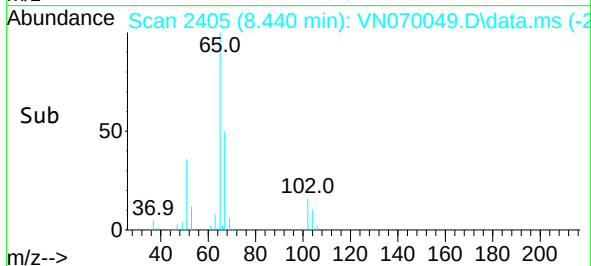
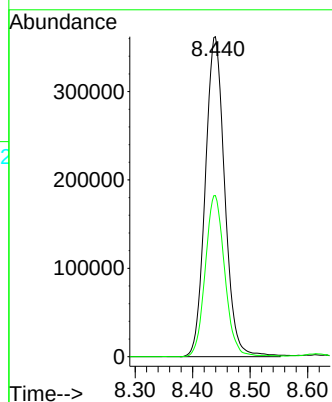
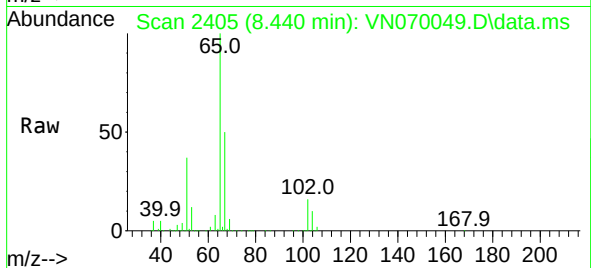
ClientSampleId :

Tgt Ion: 65 Resp: 851384

Ion Ratio Lower Upper

65 100

67 50.2 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: VN070049.D

Acq: 13 Dec 2021 23:42

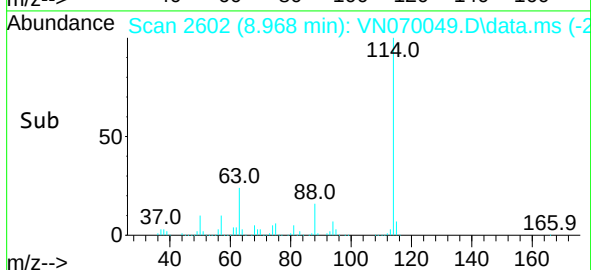
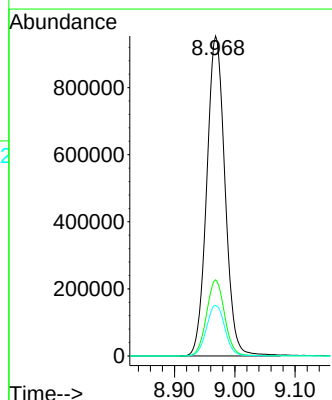
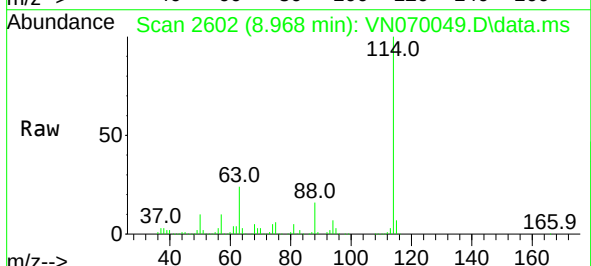
Tgt Ion: 114 Resp: 2004989

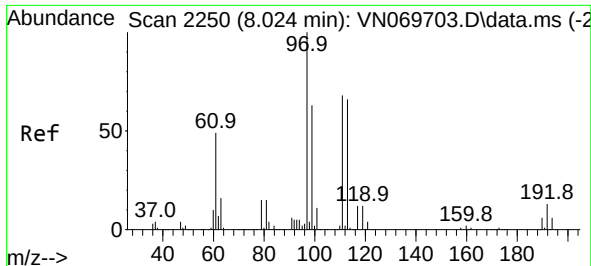
Ion Ratio Lower Upper

114 100

63 23.8 0.0 37.8

88 15.8 0.0 27.4

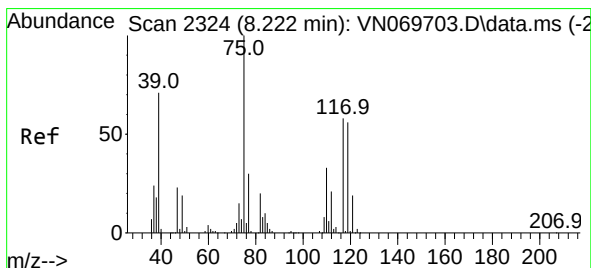
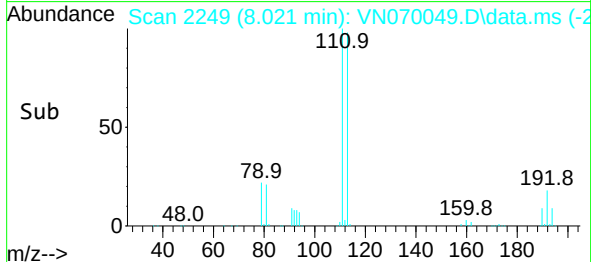
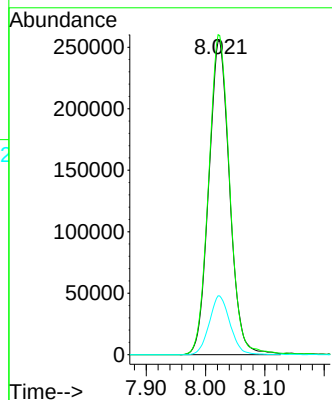
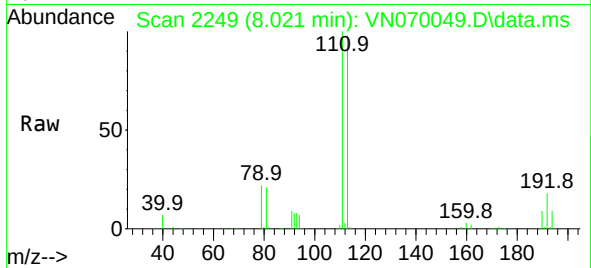




#35
Dibromofluoromethane
Concen: 49.663 ug/l
RT: 8.021 min Scan# 21
Delta R.T. -0.003 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

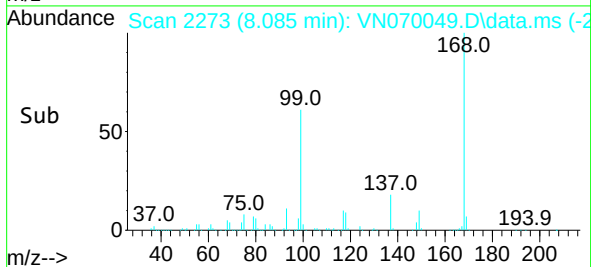
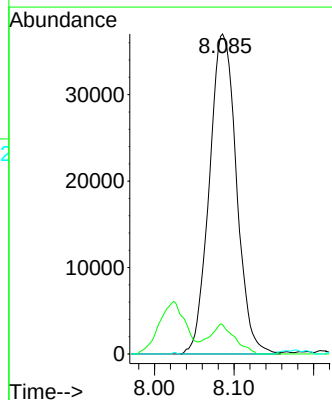
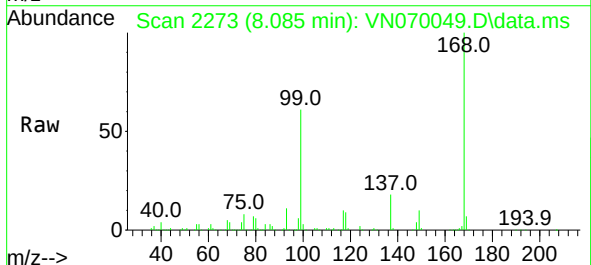
Instrument :
MSVOA_N
ClientSampleId :

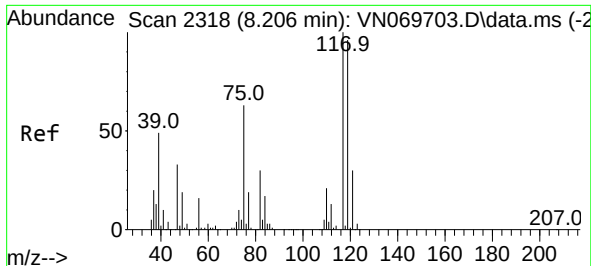
Tgt Ion:113 Resp: 623713
Ion Ratio Lower Upper
113 100
111 102.8 82.2 123.2
192 18.6 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.600 ug/l
RT: 8.085 min Scan# 2273
Delta R.T. -0.137 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

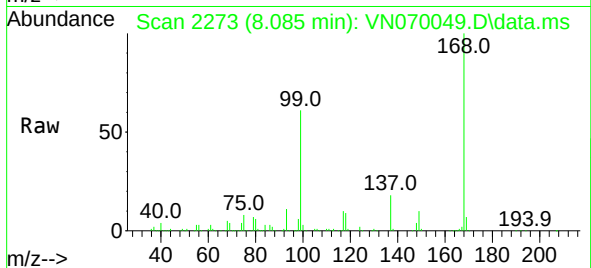
Tgt Ion: 75 Resp: 87804
Ion Ratio Lower Upper
75 100
110 7.6 18.4 55.2#
77 0.0 24.4 36.6#



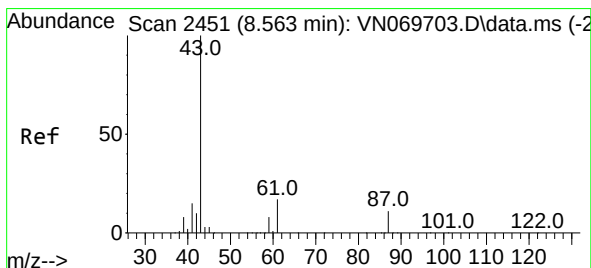
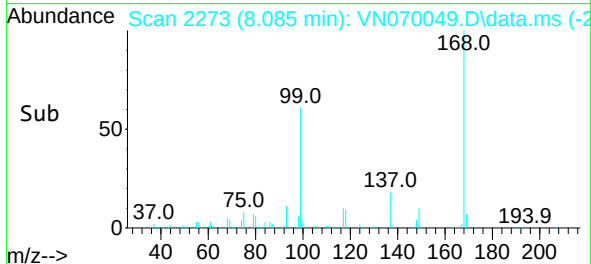
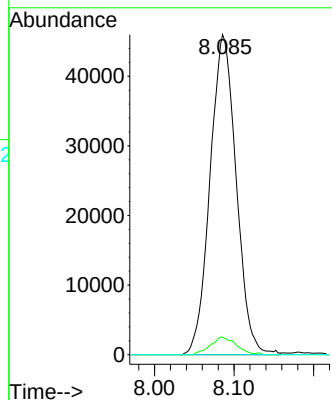


#38
Carbon Tetrachloride
Concen: 5.617 ug/l
RT: 8.085 min Scan# 21
Delta R.T. -0.121 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

Instrument :
MSVOA_N
ClientSampleId :

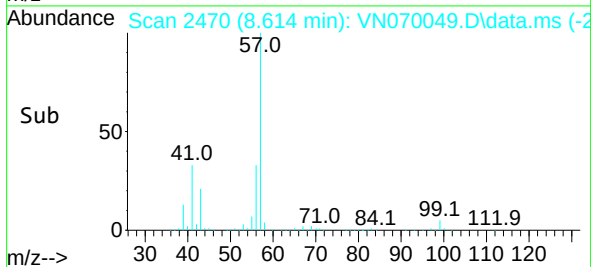
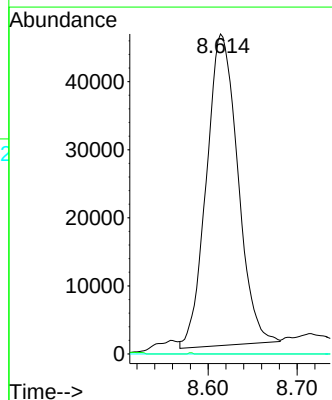
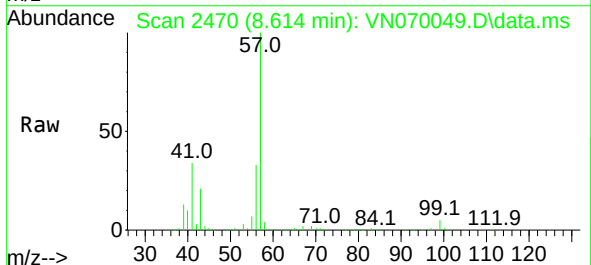


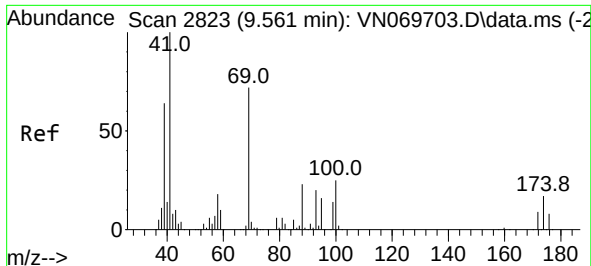
Tgt Ion:117 Resp: 105137
Ion Ratio Lower Upper
117 100
119 5.5 76.1 114.1#
121 0.0 24.2 36.2#



#43
Isopropyl Acetate
Concen: 2.665 ug/l
RT: 8.614 min Scan# 2470
Delta R.T. 0.051 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

Tgt Ion: 43 Resp: 112019
Ion Ratio Lower Upper
43 100
61 0.0 20.4 30.6#
87 0.0 11.2 16.8#

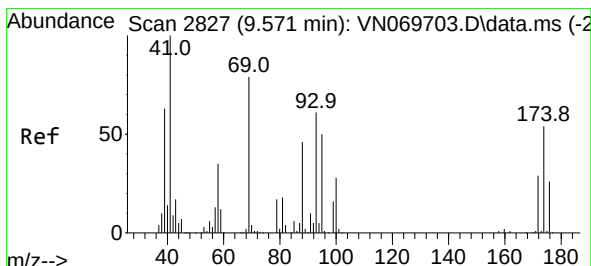
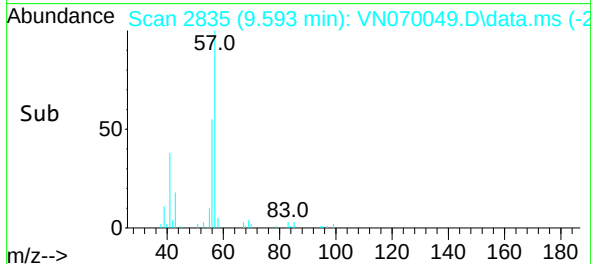
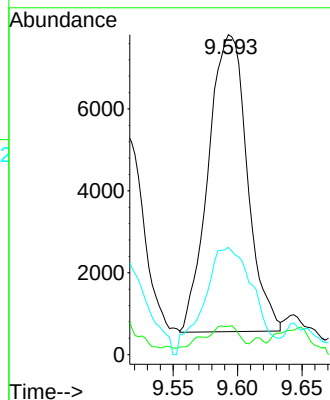
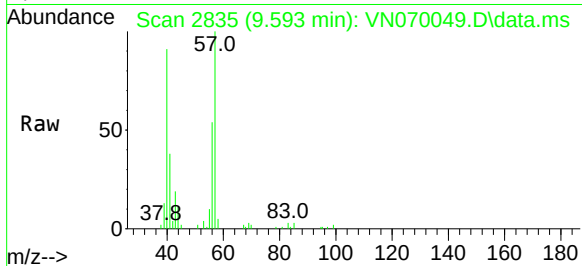




#48
Methyl methacrylate
Concen: 0.776 ug/l
RT: 9.593 min Scan# 21
Delta R.T. 0.032 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

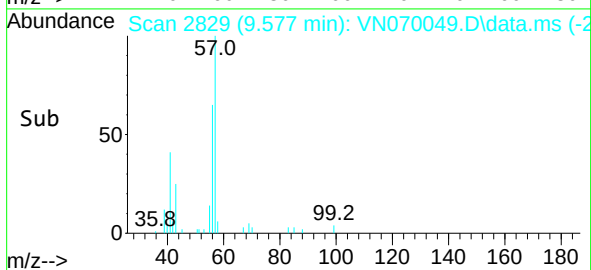
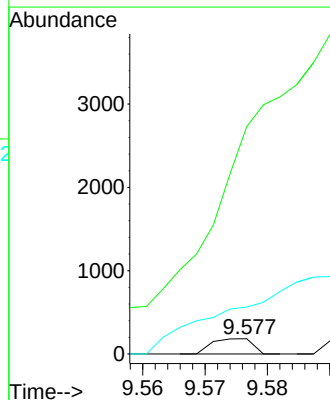
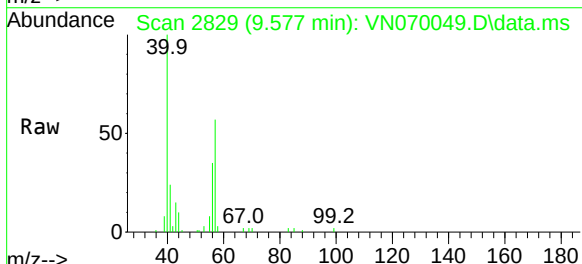
Instrument :
MSVOA_N
ClientSampleId :

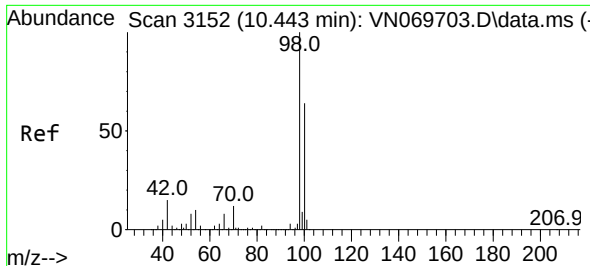
Tgt Ion: 41 Resp: 15232
Ion Ratio Lower Upper
41 100
69 5.9 72.4 108.6#
39 46.0 58.4 87.6#



#49
1,4-Dioxane
Concen: 0.236 ug/l
RT: 9.577 min Scan# 2829
Delta R.T. 0.005 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

Tgt Ion: 88 Resp: 83
Ion Ratio Lower Upper
88 100
43 0.0 23.4 35.2#
58 0.0 50.6 75.8#

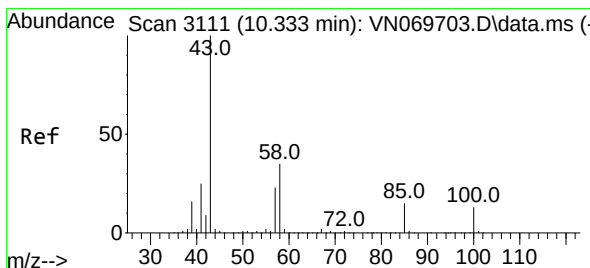
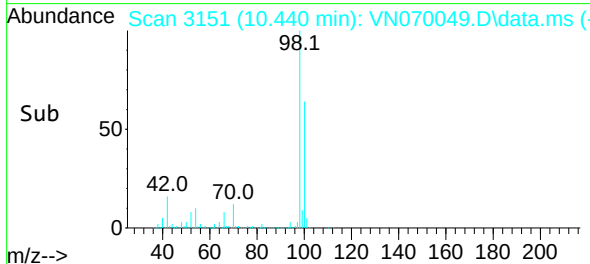
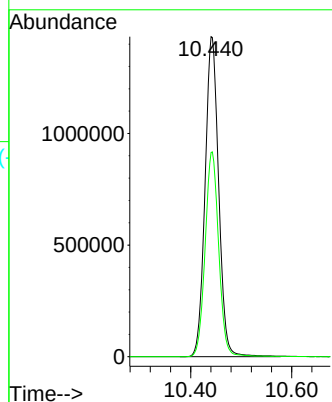
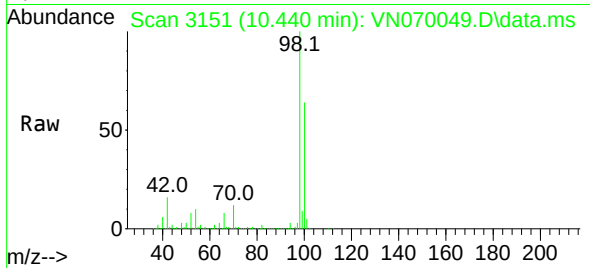




#50
Toluene-d8
Concen: 53.203 ug/l
RT: 10.440 min Scan# 3152
Delta R.T. -0.003 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

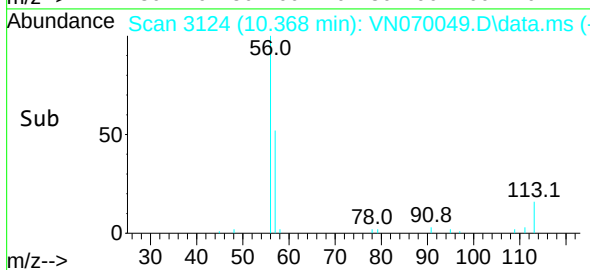
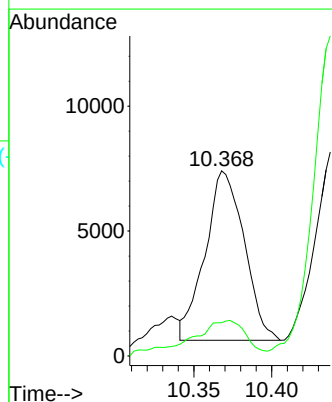
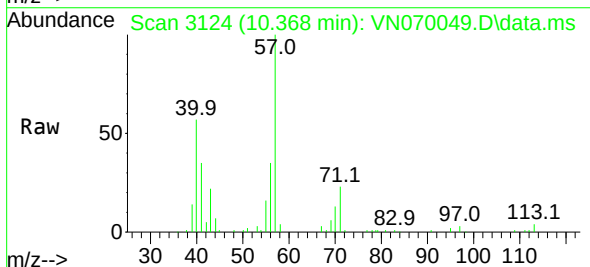
Instrument :
MSVOA_N
ClientSampleId :

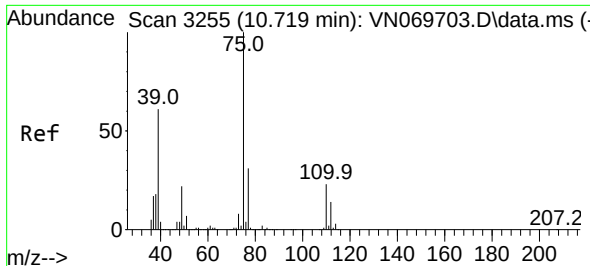
Tgt Ion: 98 Resp: 2682916
Ion Ratio Lower Upper
98 100
100 63.8 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 0.433 ug/l
RT: 10.368 min Scan# 3124
Delta R.T. 0.035 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

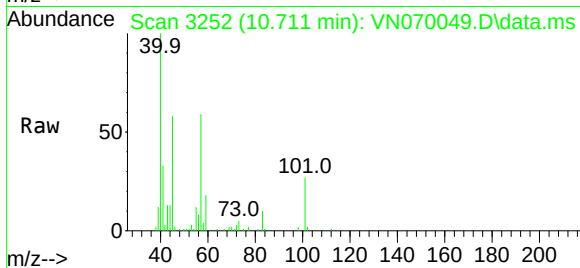
Tgt Ion: 43 Resp: 11818
Ion Ratio Lower Upper
43 100
58 30.4 30.4 45.6#



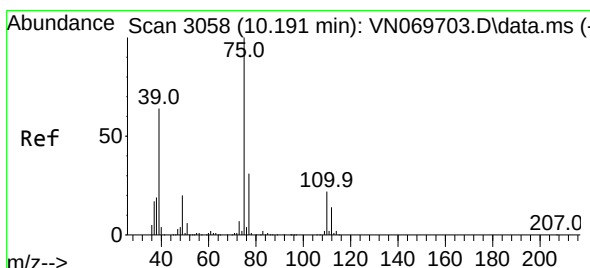
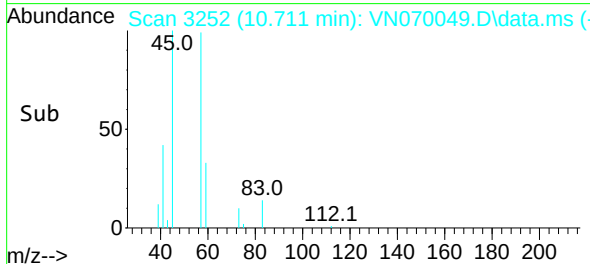
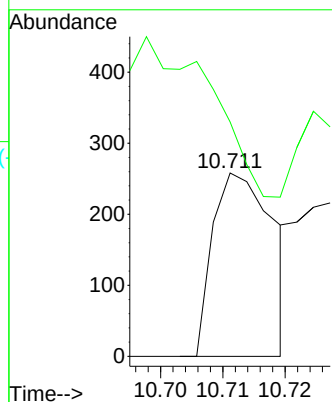


#53
t-1,3-Dichloropropene
Concen: 2.801 ug/l
RT: 10.711 min Scan# 31
Delta R.T. -0.008 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

Instrument :
MSVOA_N
ClientSampleId :

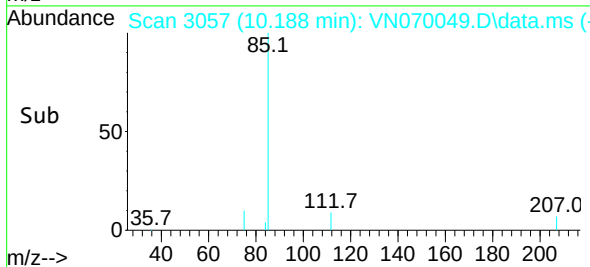
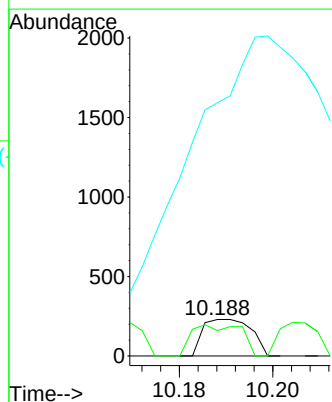
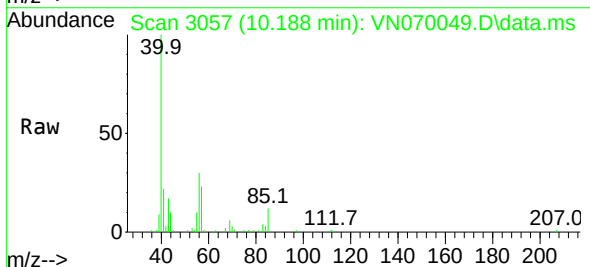


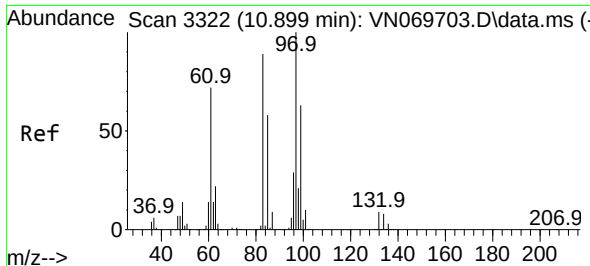
Tgt Ion: 75 Resp: 174
Ion Ratio Lower Upper
75 100
77 41.1 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 2.005 ug/l
RT: 10.188 min Scan# 3057
Delta R.T. -0.003 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

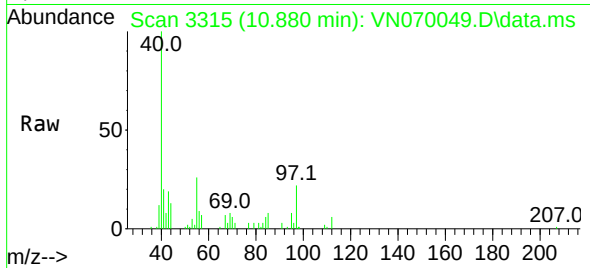
Tgt Ion: 75 Resp: 166
Ion Ratio Lower Upper
75 100
77 69.6 26.4 39.6#
39 205.7 42.5 63.7#



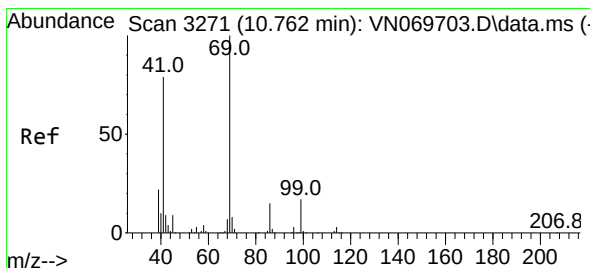
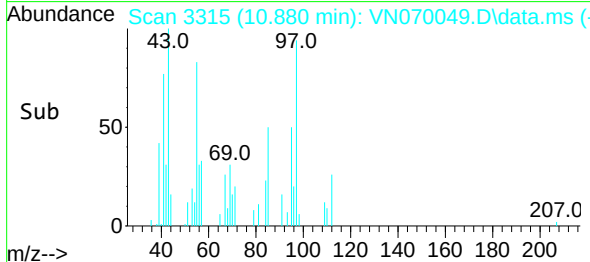
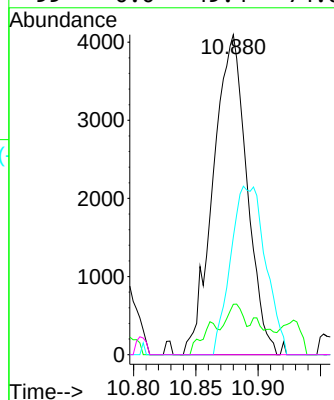


#55
1,1,2-Trichloroethane
Concen: 0.535 ug/l
RT: 10.880 min Scan# 31
Delta R.T. -0.019 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

Instrument :
MSVOA_N
ClientSampleId :

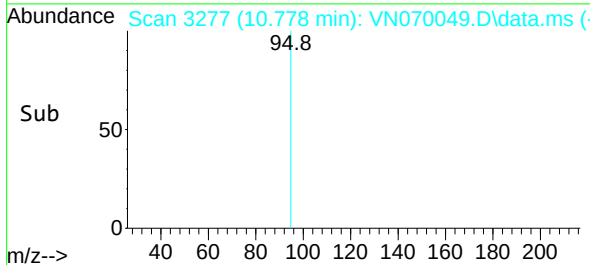
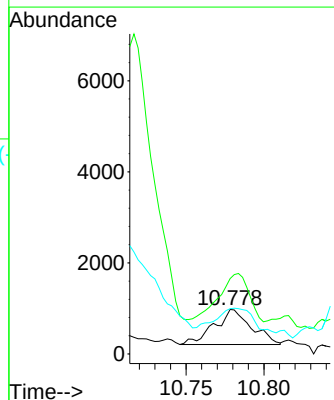
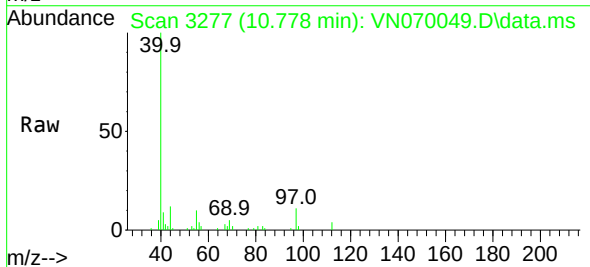


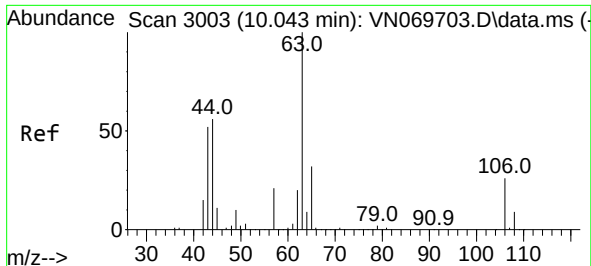
Tgt Ion:	97	Resp:	7683
Ion	Ratio	Lower	Upper
97	100		
83	15.7	67.8	101.6#
85	36.7	45.4	68.2#
99	0.0	49.4	74.0#



#56
Ethyl methacrylate
Concen: 2.324 ug/l
RT: 10.778 min Scan# 3277
Delta R.T. 0.016 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

Tgt Ion:	69	Resp:	1271
Ion	Ratio	Lower	Upper
69	100		
41	116.1	51.4	77.0#
39	59.6	34.6	52.0#

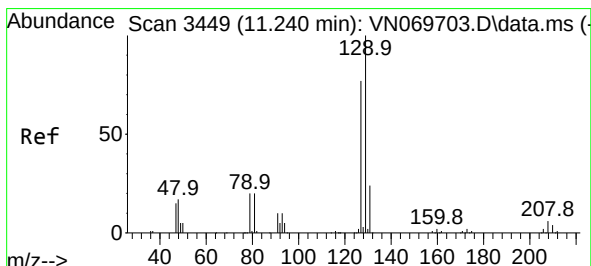
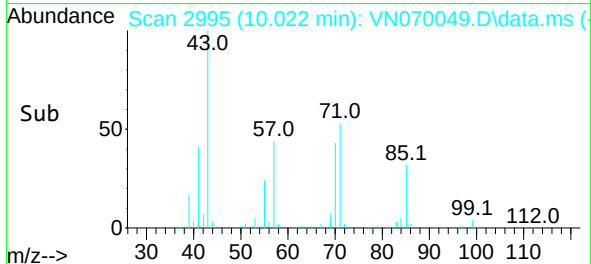
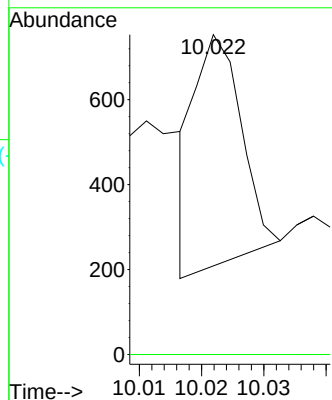
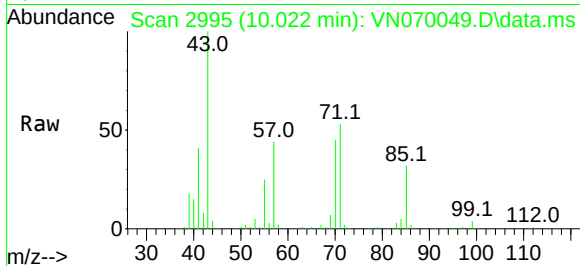




#58
2-Chloroethyl Vinyl ether
Concen: 18.425 ug/l
RT: 10.022 min Scan# 2995
Delta R.T. -0.021 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

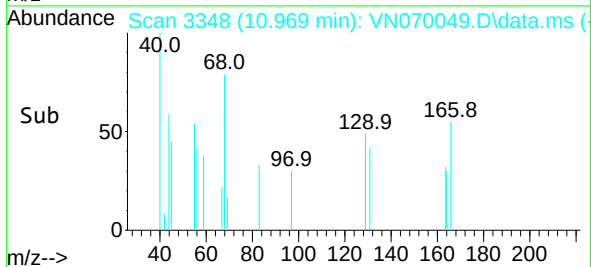
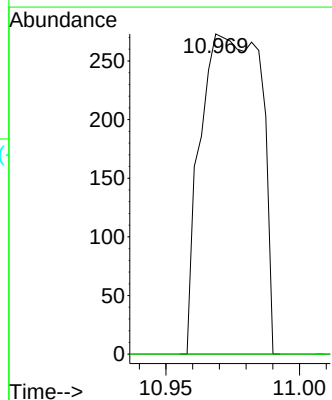
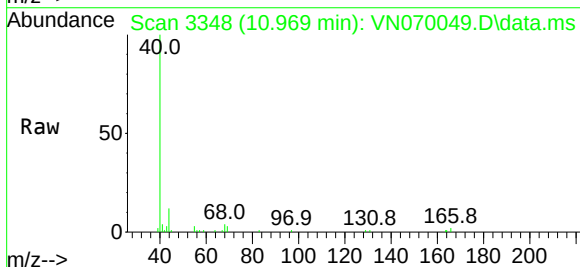
Instrument :
MSVOA_N
ClientSampleId :

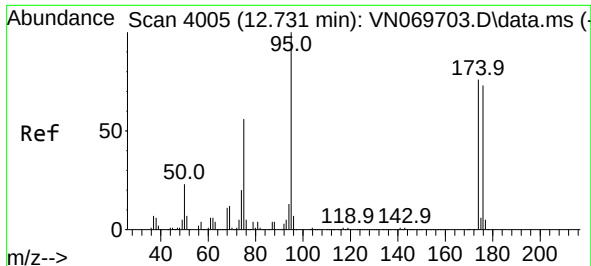
Tgt Ion: 63 Resp: 286
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#



#60
Dibromochloromethane
Concen: 2.402 ug/l
RT: 10.969 min Scan# 3348
Delta R.T. -0.271 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

Tgt Ion:129 Resp: 425
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

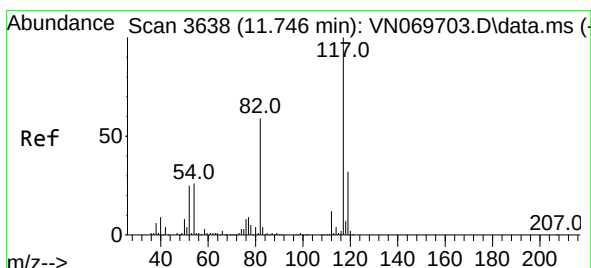
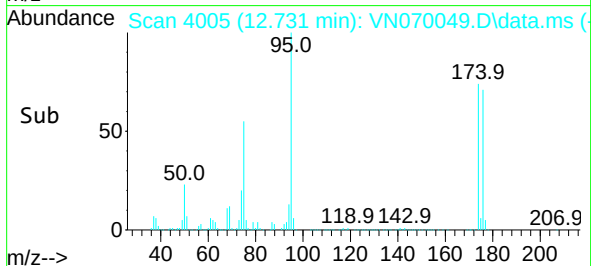
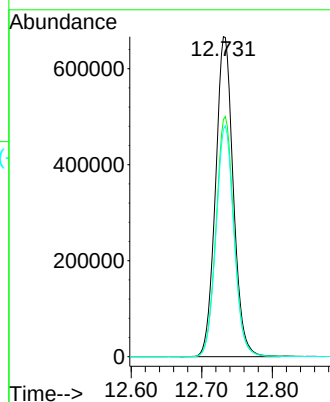
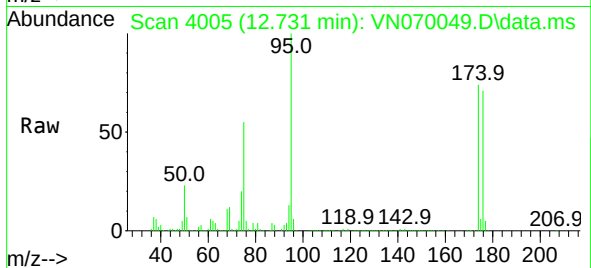




#62
4-Bromofluorobenzene
Concen: 63.840 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

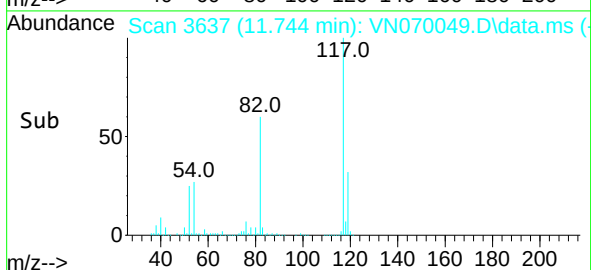
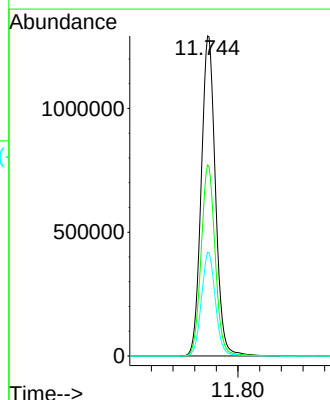
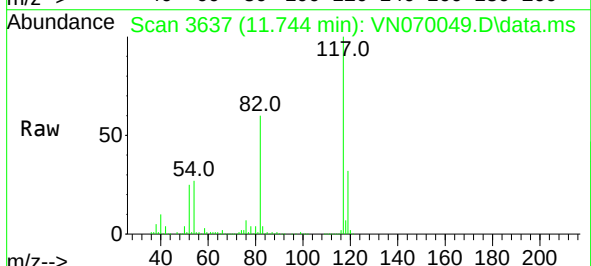
Instrument :
MSVOA_N
ClientSampleId :

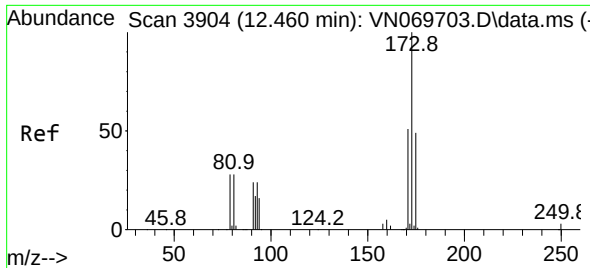
Tgt Ion: 95 Resp: 1166296
Ion Ratio Lower Upper
95 100
174 75.8 0.0 187.2
176 72.7 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 3637
Delta R.T. -0.002 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

Tgt Ion: 117 Resp: 2353236
Ion Ratio Lower Upper
117 100
82 59.7 42.4 63.6
119 32.4 25.4 38.2

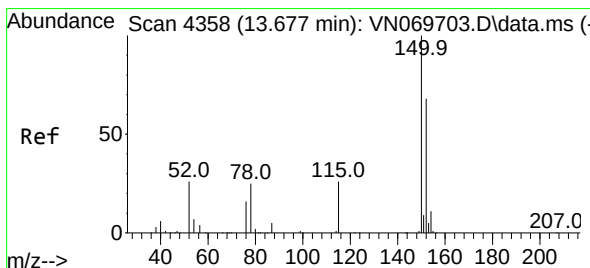
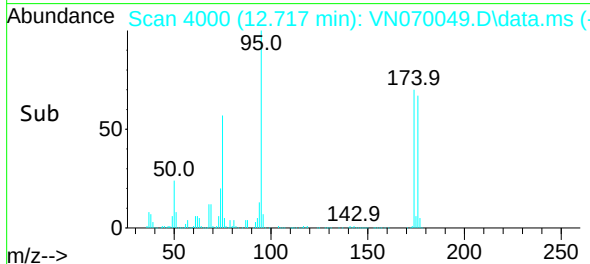
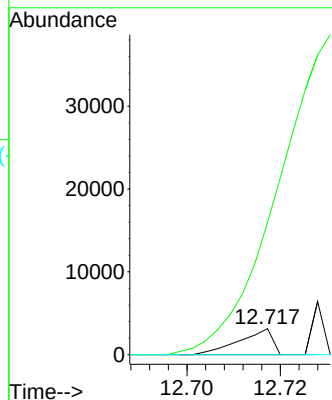
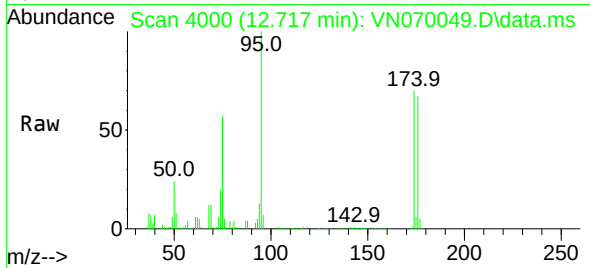




#71
Bromoform
Concen: 2.833 ug/l
RT: 12.717 min Scan# 4000
Delta R.T. 0.257 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

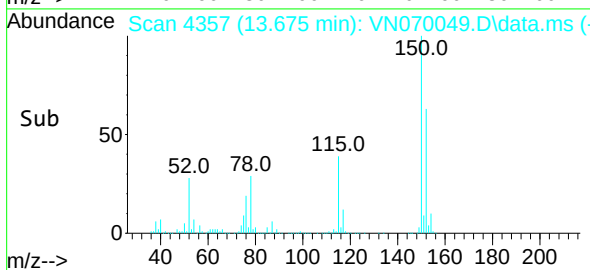
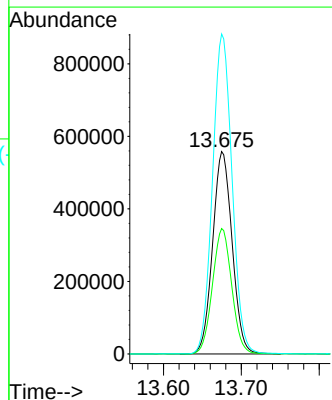
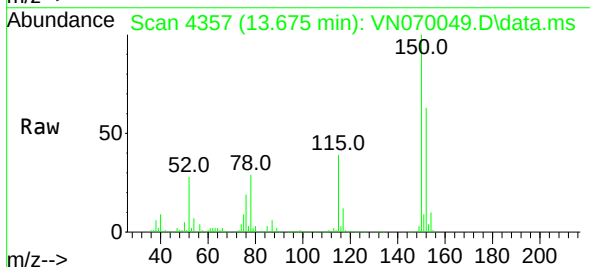
Instrument :
MSVOA_N
ClientSampleId :

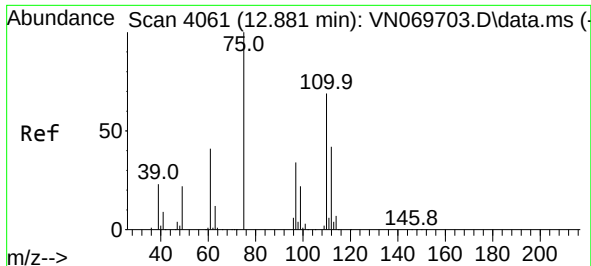
Tgt Ion:173 Resp: 1553
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.675 min Scan# 4357
Delta R.T. -0.003 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

Tgt Ion:152 Resp: 970680
Ion Ratio Lower Upper
152 100
115 61.3 27.5 82.5
150 158.2 0.0 344.4

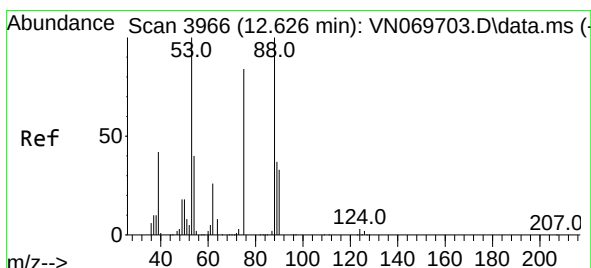
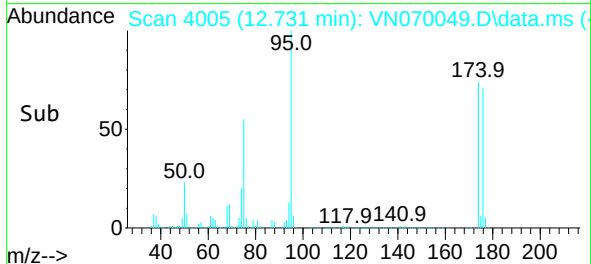
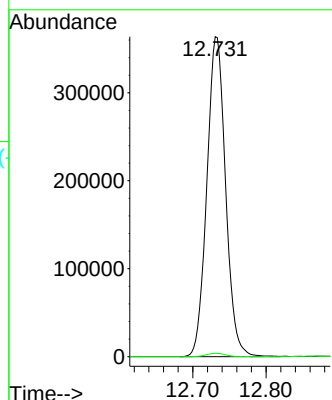
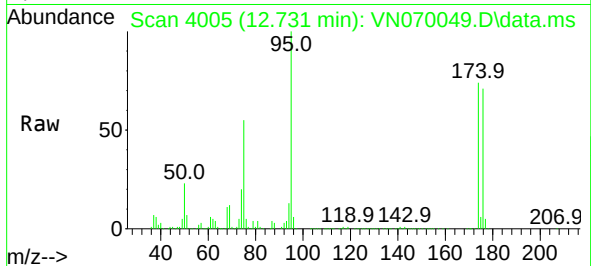




#76
1,2,3-Trichloropropane
Concen: 23.222 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

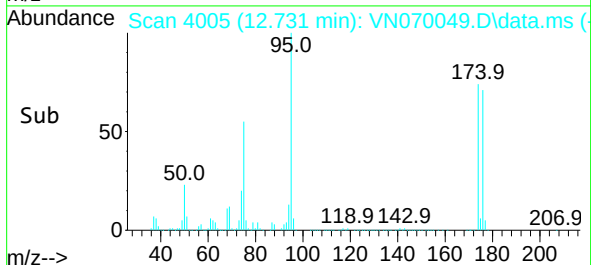
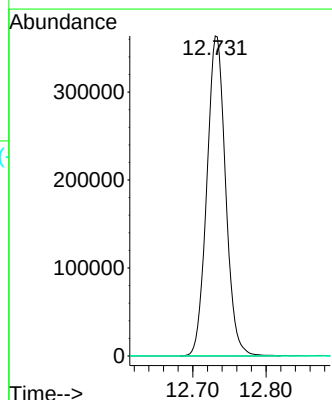
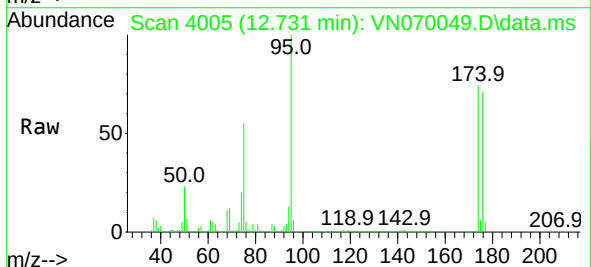
Instrument :
MSVOA_N
ClientSampleId :

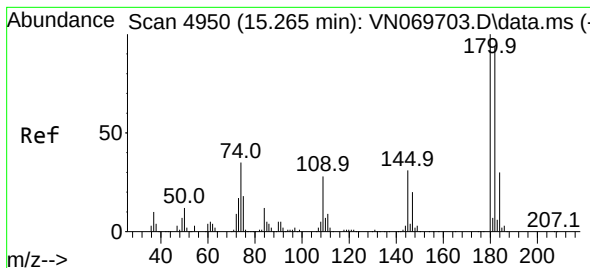
Tgt Ion: 75 Resp: 646414
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.889 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN070049.D
Acq: 13 Dec 2021 23:42

Tgt Ion: 75 Resp: 646414
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: 3.026 ug/l

RT: 15.262 min Scan# 4950

Delta R.T. -0.003 min

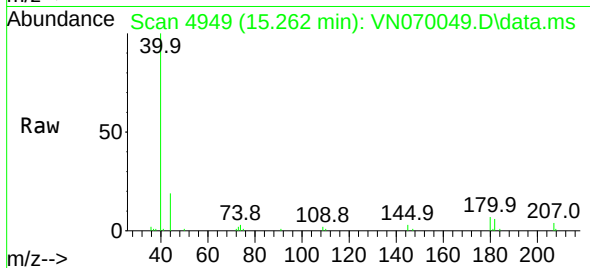
Lab File: VN070049.D

Acq: 13 Dec 2021 23:42

Instrument :

MSVOA_N

ClientSampleId :



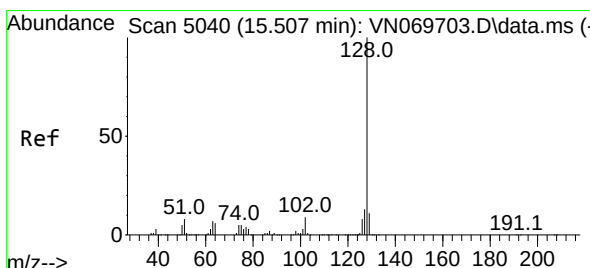
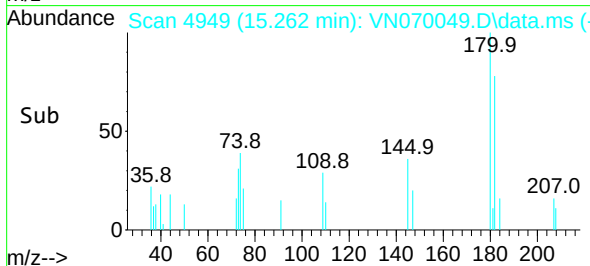
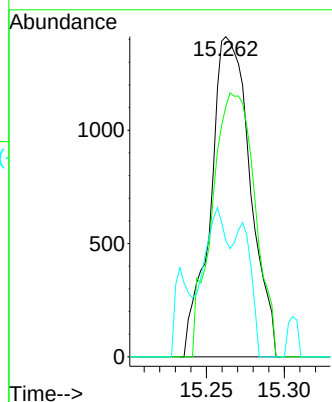
Tgt Ion:180 Resp: 2509

Ion Ratio Lower Upper

180 100

182 88.7 48.3 144.9

145 15.5 14.5 43.5



#95

Naphthalene

Concen: 4.177 ug/l

RT: 15.507 min Scan# 5040

Delta R.T. -0.000 min

Lab File: VN070049.D

Acq: 13 Dec 2021 23:42

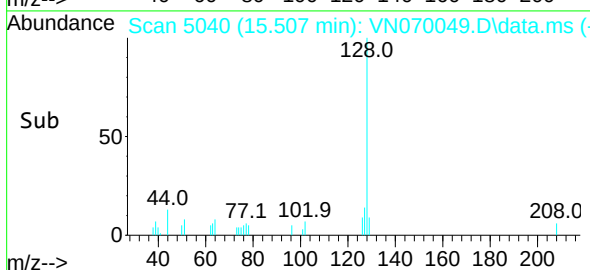
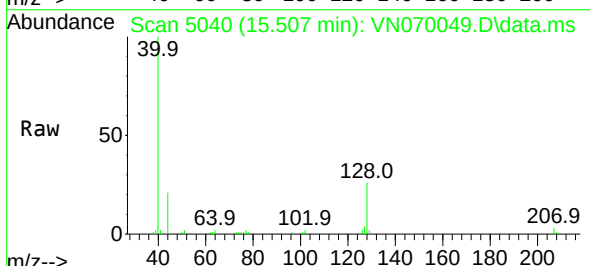
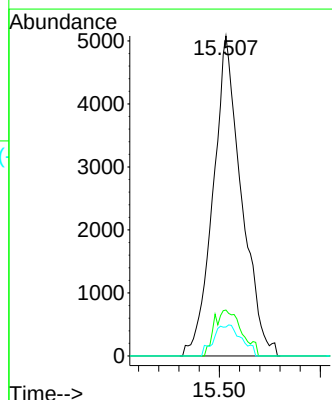
Tgt Ion:128 Resp: 9886

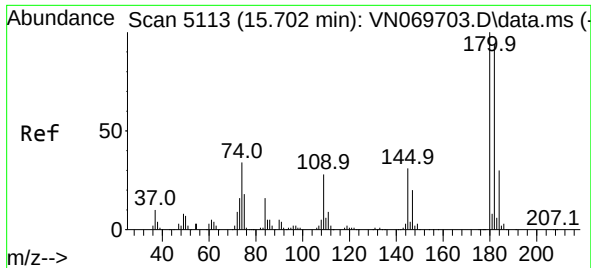
Ion Ratio Lower Upper

128 100

127 13.8 10.5 15.7

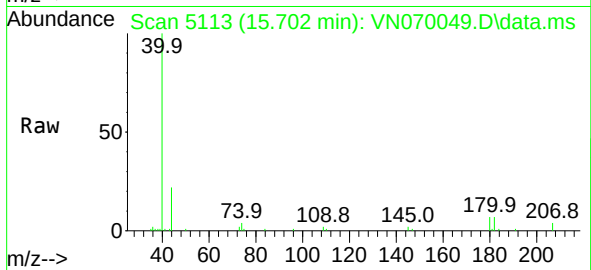
129 9.4 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 2.611 ug/l
 RT: 15.702 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: VN070049.D
 Acq: 13 Dec 2021 23:42

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	2855
Ion Ratio	Lower	Upper	
180	100		
182	93.5	47.4	142.2
145	19.7	15.0	45.1

