

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121521\
 Data File : VN070110.D
 Acq On : 15 Dec 2021 14:36
 Operator : JC/MD
 Sample : M4970-03DL 50X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 16 05:38:55 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)

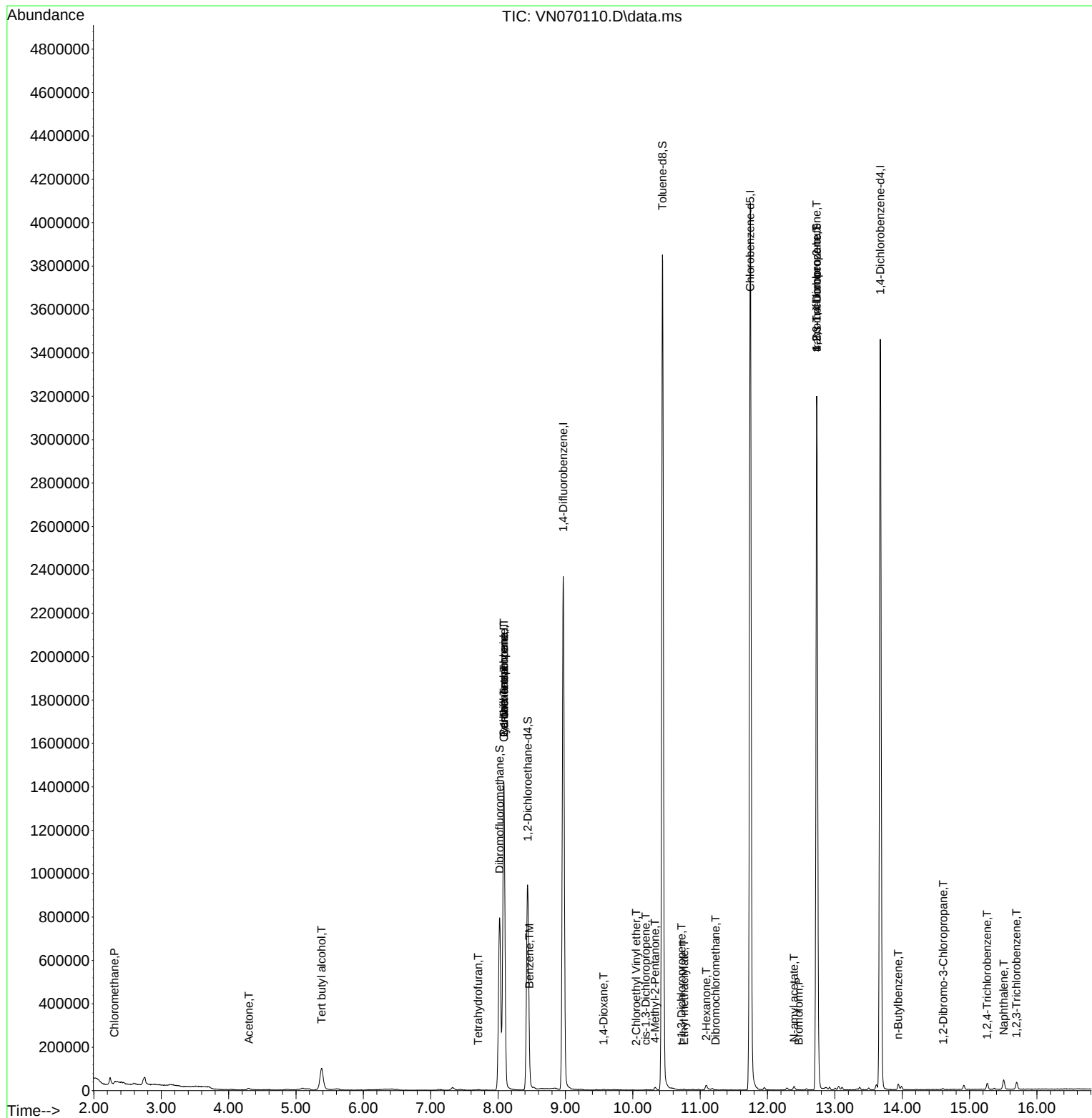
Internal Standards						
1) Pentafluorobenzene	8.086	168	1046972	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	1992304	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2290844	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	935595	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	835397	51.679	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 103.360%			
35) Dibromofluoromethane	8.021	113	573988	45.995	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 91.980%			
50) Toluene-d8	10.441	98	2631509	52.516	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 105.040%			
62) 4-Bromofluorobenzene	12.731	95	1130744	62.289	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 124.580%			
Target Compounds						Qvalue
3) Chloromethane	2.303	50	3171	0.207	ug/l #	78
11) Tert butyl alcohol	5.380	59	171911	56.260	ug/l	99
16) Acetone	4.299	43	8625	0.887	ug/l	100
29) Tetrahydrofuran	7.705	42	1687	0.210	ug/l #	48
31) Cyclohexane	8.088	56	27144	1.207	ug/l #	20
36) 1,1-Dichloropropene	8.086	75	89142	4.700	ug/l #	48
38) Carbon Tetrachloride	8.086	117	108750	5.847	ug/l #	16
40) Benzene	8.464	78	12162	0.210	ug/l	99
49) 1,4-Dioxane	9.564	88	162	0.463	ug/l #	2
51) 4-Methyl-2-Pentanone	10.331	43	9204	0.340	ug/l	97
53) t-1,3-Dichloropropene	10.722	75	569	2.817	ug/l #	48
54) cis-1,3-Dichloropropene	10.191	75	308	2.011	ug/l #	40
56) Ethyl methacrylate	10.762	69	2028	2.351	ug/l #	76
58) 2-Chloroethyl Vinyl ether	10.052	63	118	18.404	ug/l #	45
59) 2-Hexanone	11.092	43	21730	1.060	ug/l	85
60) Dibromochloromethane	11.232	129	133	2.384	ug/l #	37
71) Bromoform	12.465	173	401	2.758	ug/l #	29
74) N-amyl acetate	12.393	43	11486	0.312	ug/l #	89
76) 1,2,3-Trichloropropane	12.731	75	619545	23.091	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	619545	73.497	ug/l #	5
89) n-Butylbenzene	13.940	91	15369	0.301	ug/l	95
92) 1,2-Dibromo-3-Chloropr...	14.608	75	1225	0.236	ug/l	76
93) 1,2,4-Trichlorobenzene	15.263	180	9721	3.475	ug/l	95
95) Naphthalene	15.507	128	42815	4.847	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.697	180	11675	3.178	ug/l	94

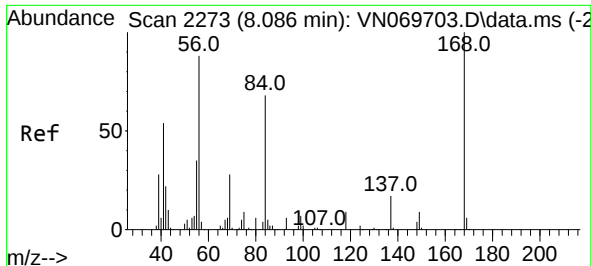
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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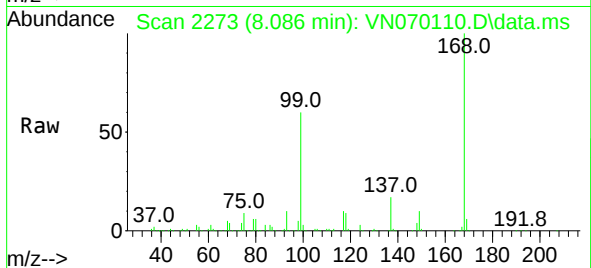
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QLast Update : Fri Dec 03 08:46:47 2021
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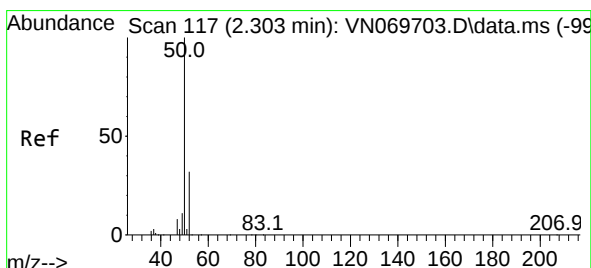
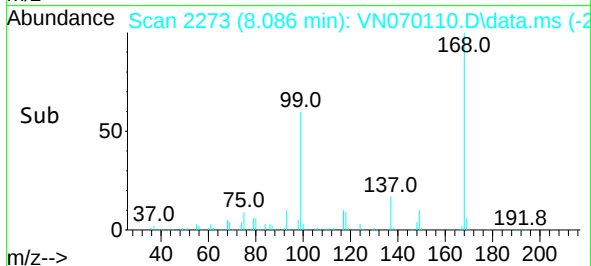
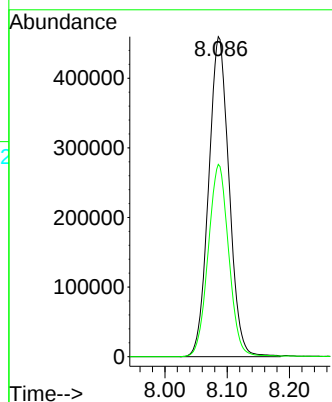


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN070110.D
Acq: 15 Dec 2021 14:36

Instrument :
MSVOA_N
ClientSampleId :

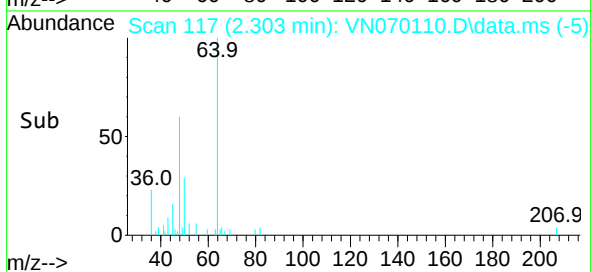
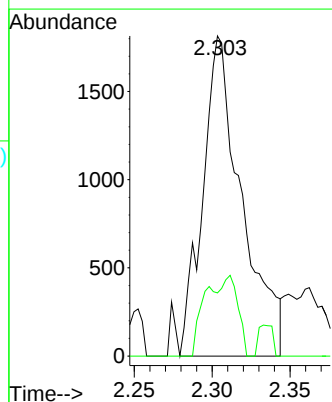
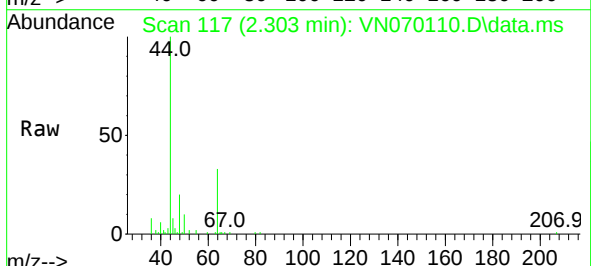


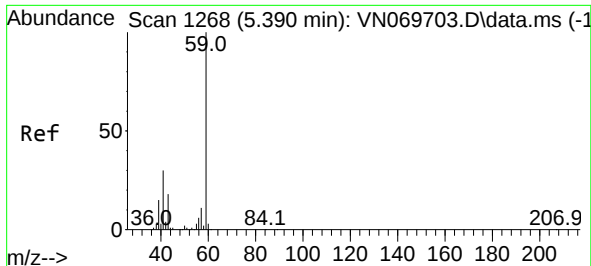
Tgt Ion:168 Resp: 1046972
Ion Ratio Lower Upper
168 100
99 60.1 41.3 61.9



#3
Chloromethane
Concen: 0.207 ug/l
RT: 2.303 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN070110.D
Acq: 15 Dec 2021 14:36

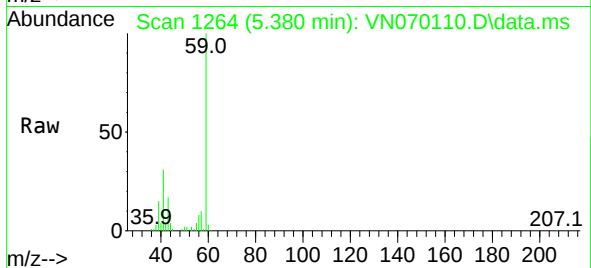
Tgt Ion: 50 Resp: 3171
Ion Ratio Lower Upper
50 100
52 19.7 25.4 38.0#



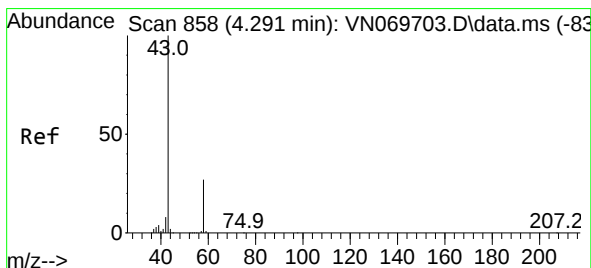
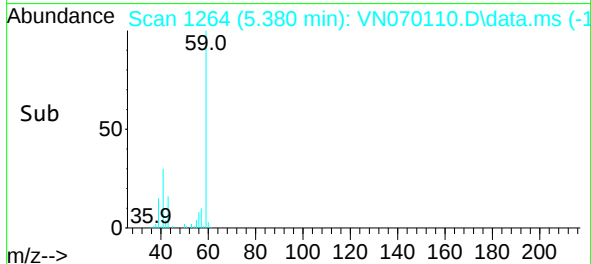
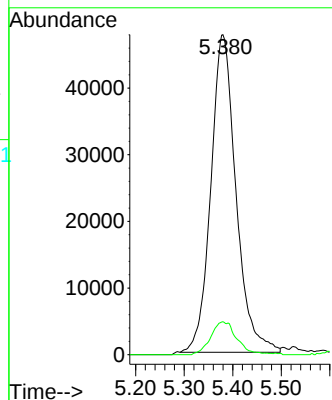


#11
Tert butyl alcohol
Concen: 56.260 ug/l
RT: 5.380 min Scan# 11
Delta R.T. -0.010 min
Lab File: VN070110.D
Acq: 15 Dec 2021 14:36

Instrument :
MSVOA_N
ClientSampleId :

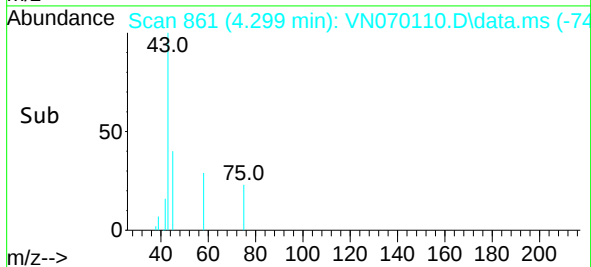
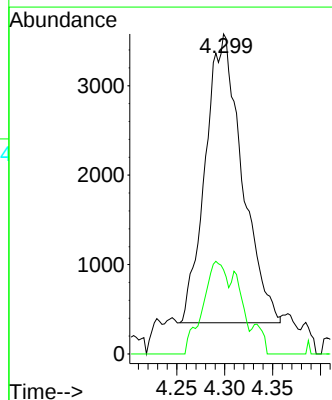
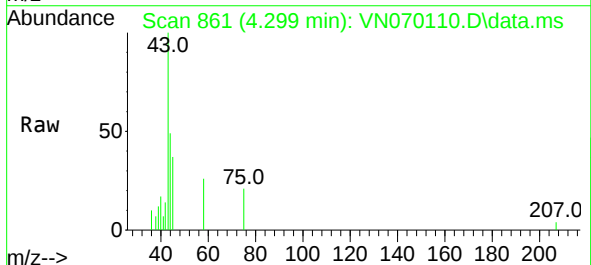


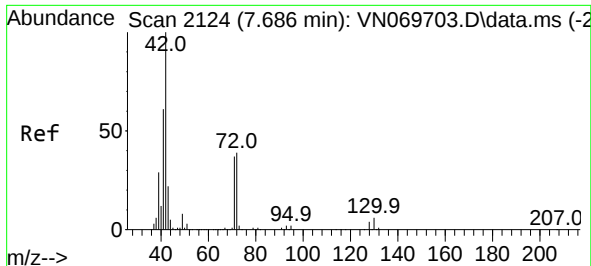
Tgt Ion: 59 Resp: 171911
Ion Ratio Lower Upper
59 100
57 10.6 8.7 13.1



#16
Acetone
Concen: 0.887 ug/l
RT: 4.299 min Scan# 861
Delta R.T. 0.008 min
Lab File: VN070110.D
Acq: 15 Dec 2021 14:36

Tgt Ion: 43 Resp: 8625
Ion Ratio Lower Upper
43 100
58 29.1 23.1 34.7





#29

Tetrahydrofuran

Concen: 0.210 ug/l

RT: 7.705 min Scan# 21

Delta R.T. 0.019 min

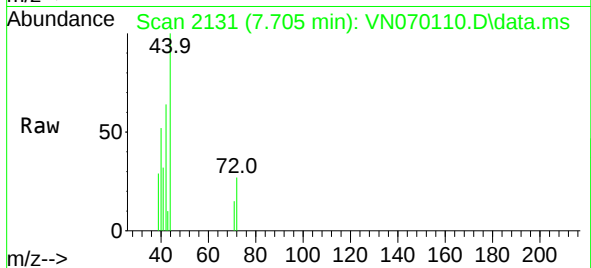
Lab File: VN070110.D

Acq: 15 Dec 2021 14:36

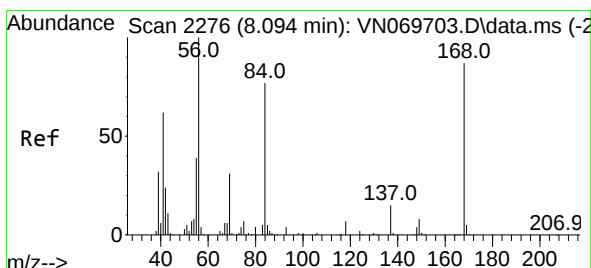
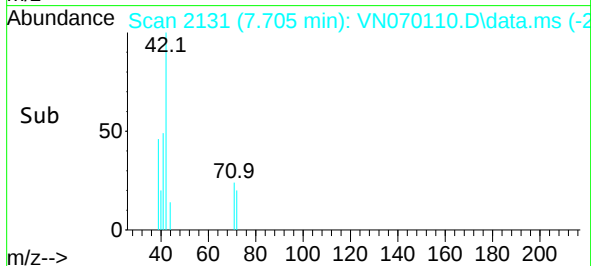
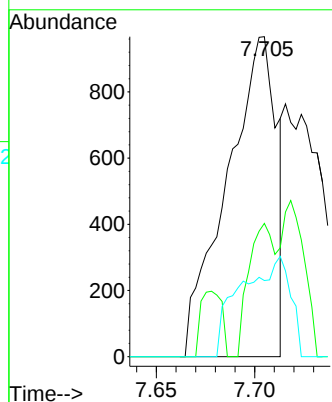
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	1687
Ion	Ratio	Lower	Upper
42	100		
72	21.4	36.3	54.5#
71	0.0	34.7	52.1#



#31

Cyclohexane

Concen: 1.207 ug/l

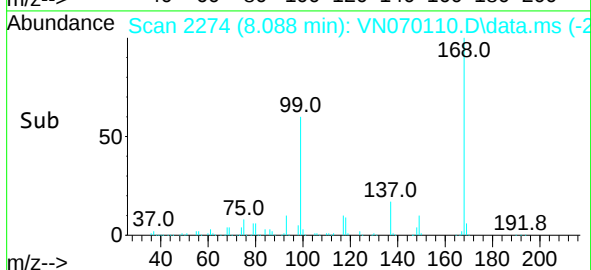
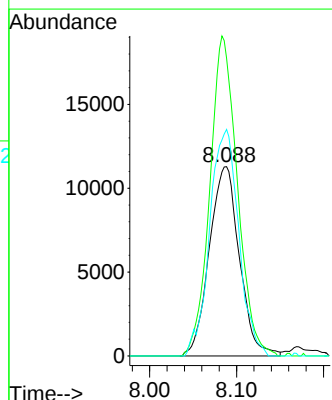
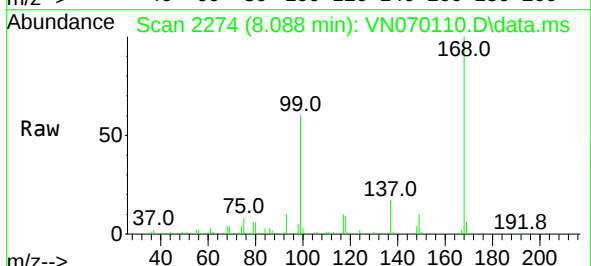
RT: 8.088 min Scan# 2274

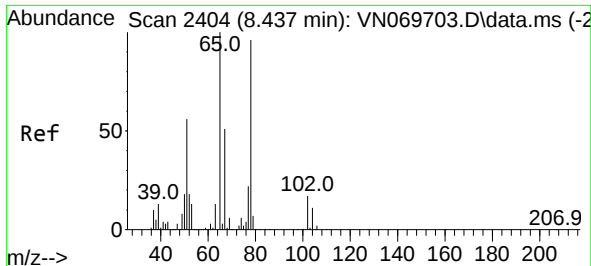
Delta R.T. -0.005 min

Lab File: VN070110.D

Acq: 15 Dec 2021 14:36

Tgt Ion:	56	Resp:	27144
Ion	Ratio	Lower	Upper
56	100		
69	157.3	27.1	40.7#
84	119.7	73.4	110.0#





#33

1,2-Dichloroethane-d4

Concen: 51.679 ug/l

RT: 8.440 min Scan# 24

Delta R.T. 0.003 min

Lab File: VN070110.D

Acq: 15 Dec 2021 14:36

Instrument :

MSVOA_N

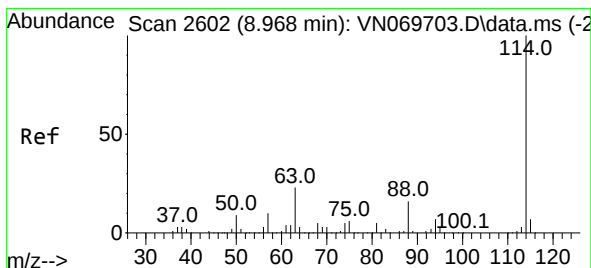
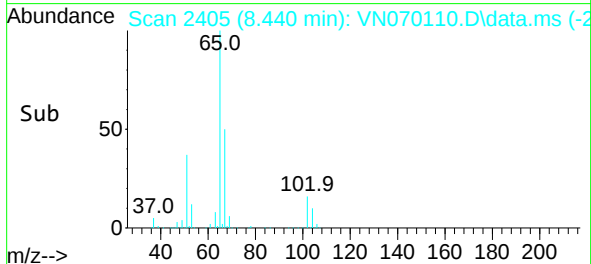
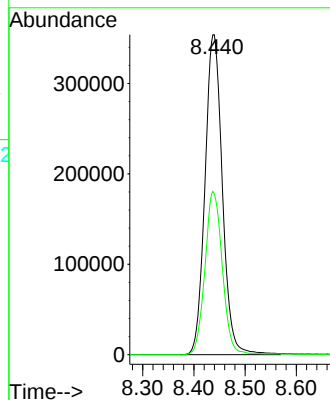
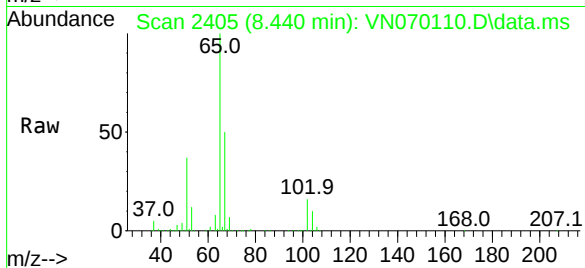
ClientSampleId :

Tgt Ion: 65 Resp: 835397

Ion Ratio Lower Upper

65 100

67 50.6 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: VN070110.D

Acq: 15 Dec 2021 14:36

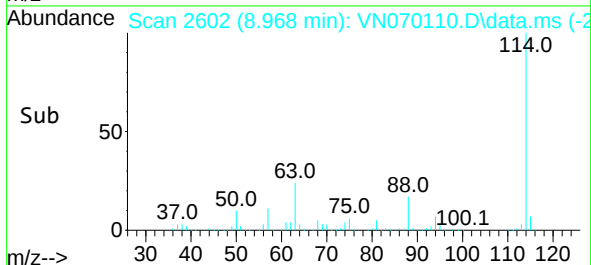
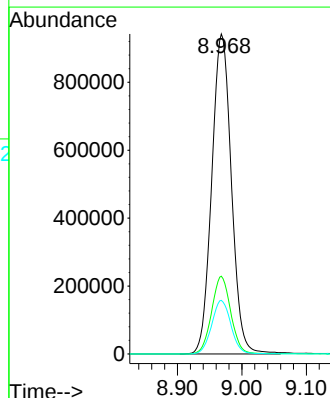
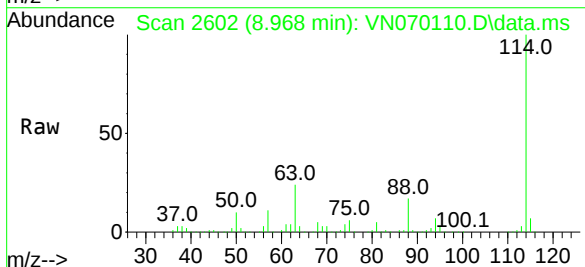
Tgt Ion: 114 Resp: 1992304

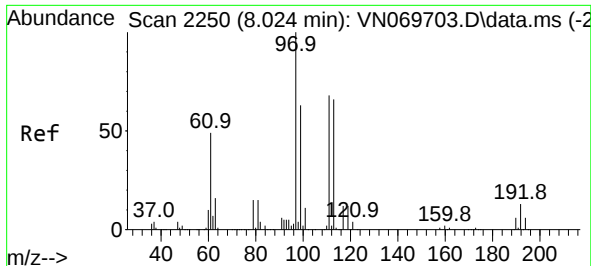
Ion Ratio Lower Upper

114 100

63 24.3 0.0 37.8

88 16.8 0.0 27.4

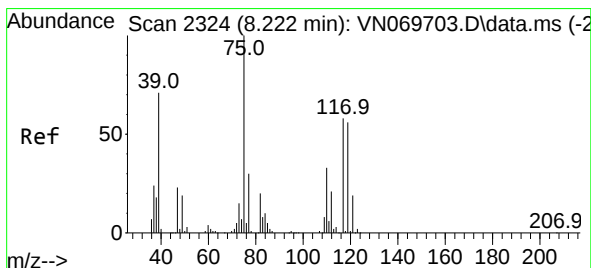
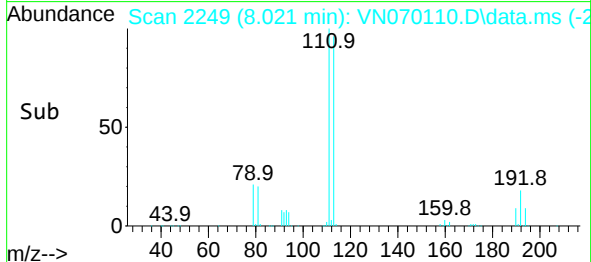
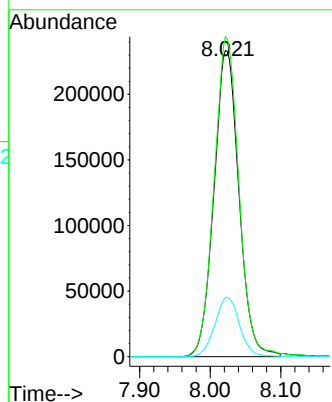
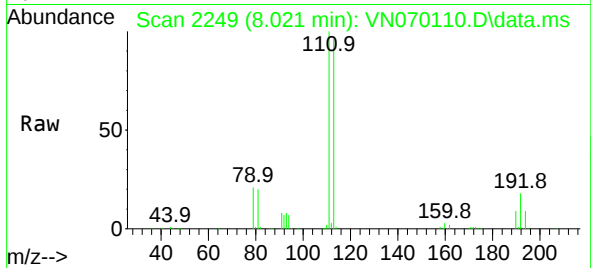




#35
Dibromofluoromethane
Concen: 45.995 ug/l
RT: 8.021 min Scan# 211
Delta R.T. -0.002 min
Lab File: VN070110.D
Acq: 15 Dec 2021 14:36

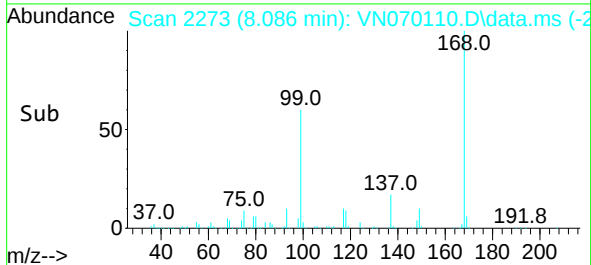
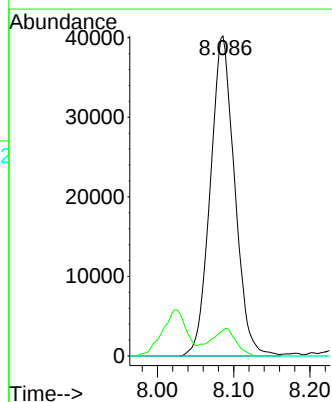
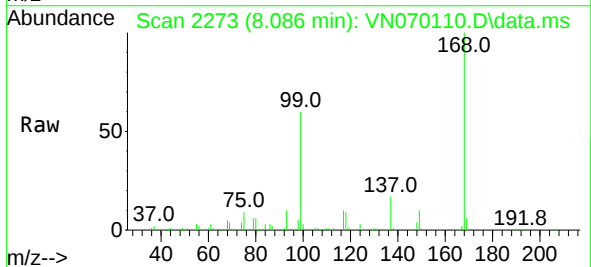
Instrument :
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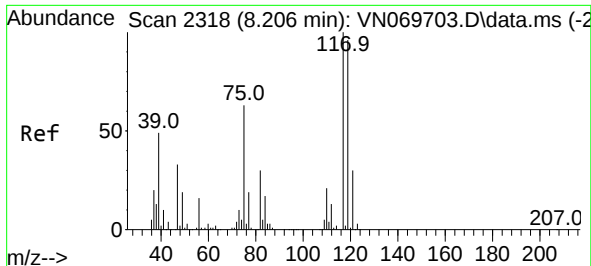
Tgt Ion:113 Resp: 573988
Ion Ratio Lower Upper
113 100
111 104.1 82.2 123.2
192 19.2 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.700 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.137 min
Lab File: VN070110.D
Acq: 15 Dec 2021 14:36

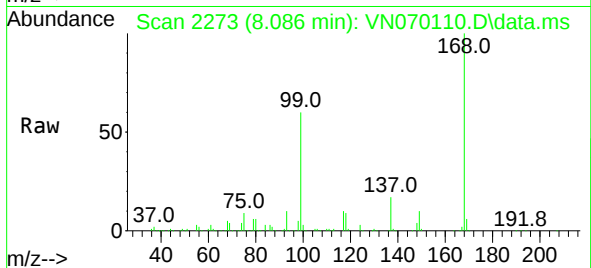
Tgt Ion: 75 Resp: 89142
Ion Ratio Lower Upper
75 100
110 8.1 18.4 55.2#
77 0.0 24.4 36.6#



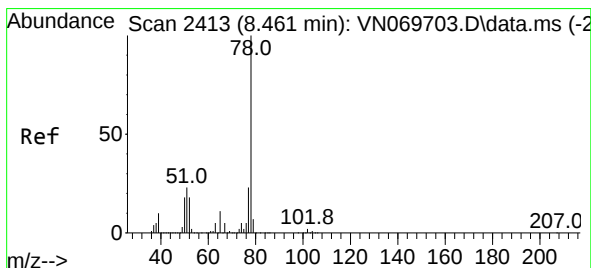
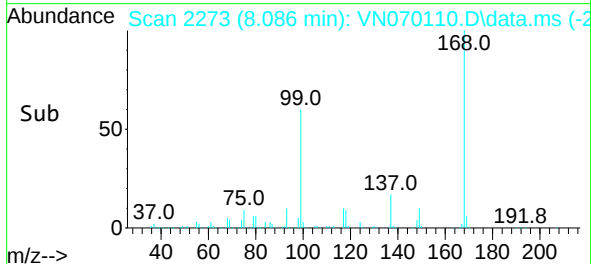
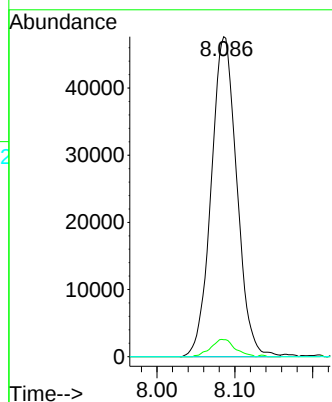


#38
Carbon Tetrachloride
Concen: 5.847 ug/l
RT: 8.086 min Scan# 211
Delta R.T. -0.120 min
Lab File: VN070110.D
Acq: 15 Dec 2021 14:36

Instrument :
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ClientSampleId :

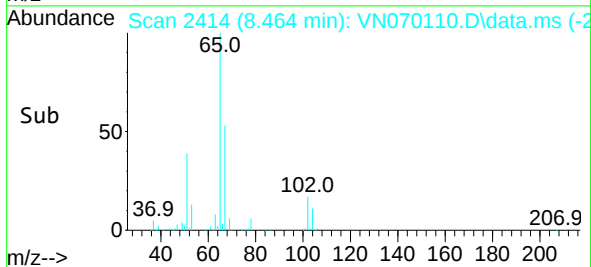
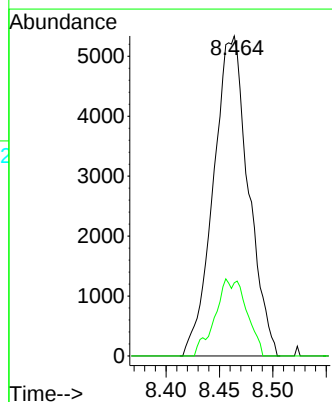
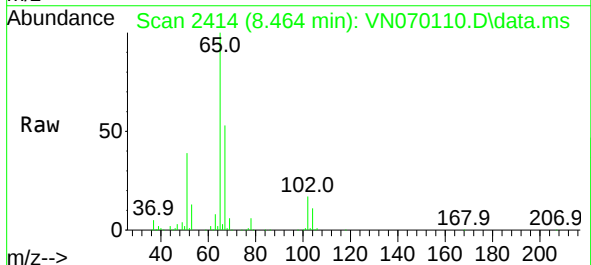


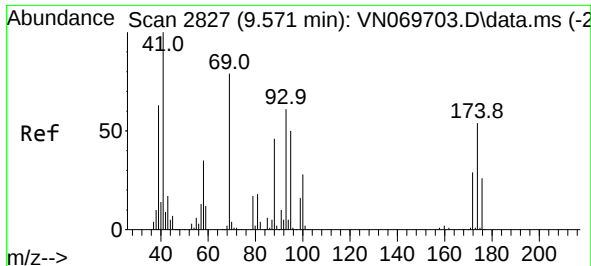
Tgt Ion:117 Resp: 108750
Ion Ratio Lower Upper
117 100
119 5.3 76.1 114.1#
121 0.0 24.2 36.2#



#40
Benzene
Concen: 0.210 ug/l
RT: 8.464 min Scan# 2414
Delta R.T. 0.003 min
Lab File: VN070110.D
Acq: 15 Dec 2021 14:36

Tgt Ion: 78 Resp: 12162
Ion Ratio Lower Upper
78 100
77 22.9 18.6 27.8





#49

1,4-Dioxane

Concen: 0.463 ug/l

RT: 9.564 min Scan# 21

Delta R.T. -0.008 min

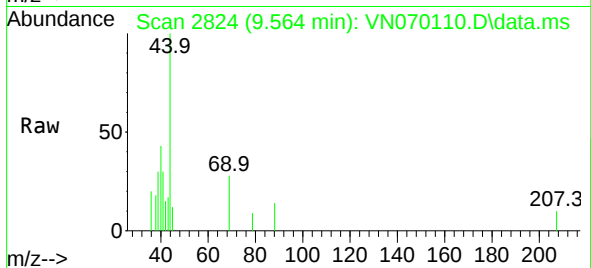
Lab File: VN070110.D

Acq: 15 Dec 2021 14:36

Instrument :

MSVOA_N

ClientSampleId :



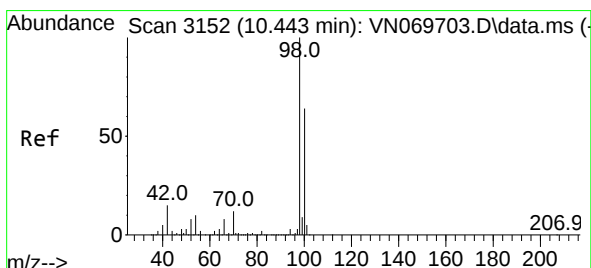
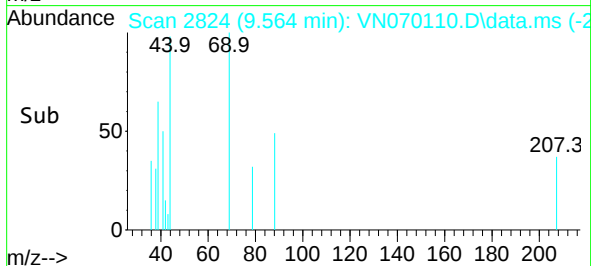
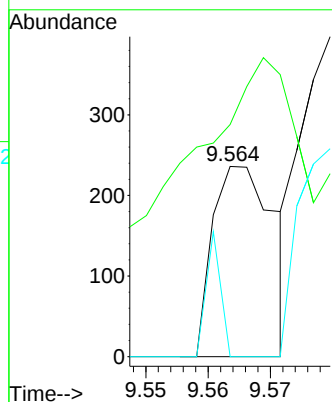
Tgt Ion: 88 Resp: 162

Ion Ratio Lower Upper

88 100

43 124.7 23.4 35.2#

58 15.4 50.6 75.8#



#50

Toluene-d8

Concen: 52.516 ug/l

RT: 10.441 min Scan# 3151

Delta R.T. -0.002 min

Lab File: VN070110.D

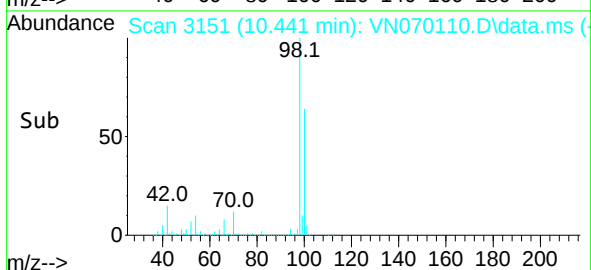
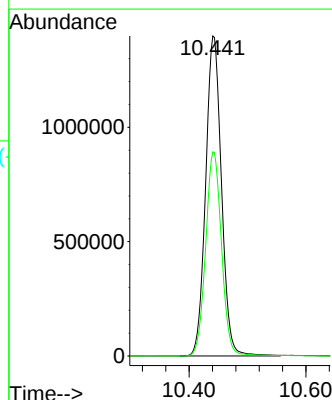
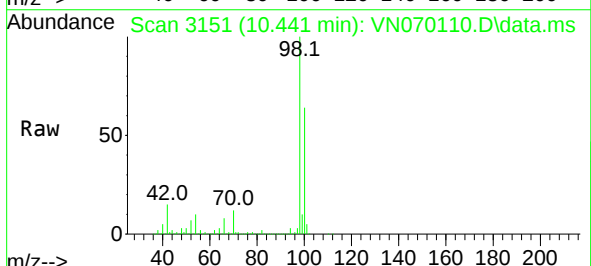
Acq: 15 Dec 2021 14:36

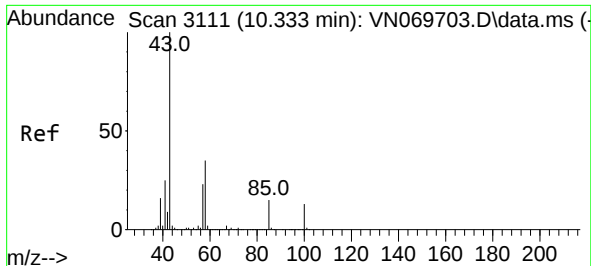
Tgt Ion: 98 Resp: 2631509

Ion Ratio Lower Upper

98 100

100 64.0 50.4 75.6





#51

4-Methyl-2-Pentanone

Concen: 0.340 ug/l

RT: 10.331 min Scan# 3111

Delta R.T. -0.002 min

Lab File: VN070110.D

Acq: 15 Dec 2021 14:36

Instrument :

MSVOA_N

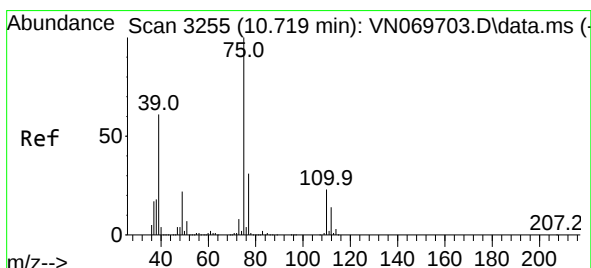
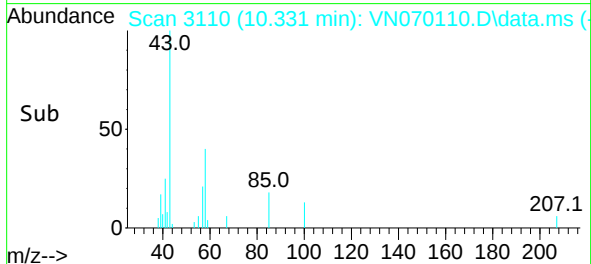
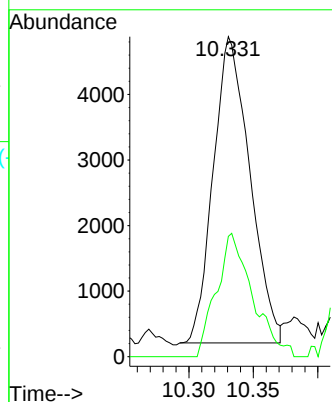
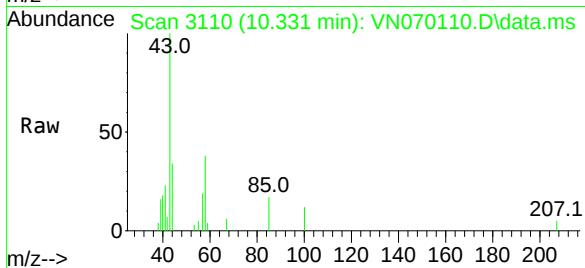
ClientSampleId :

Tgt Ion: 43 Resp: 9204

Ion Ratio Lower Upper

43 100

58 39.7 30.4 45.6



#53

t-1,3-Dichloropropene

Concen: 2.817 ug/l

RT: 10.722 min Scan# 3256

Delta R.T. 0.003 min

Lab File: VN070110.D

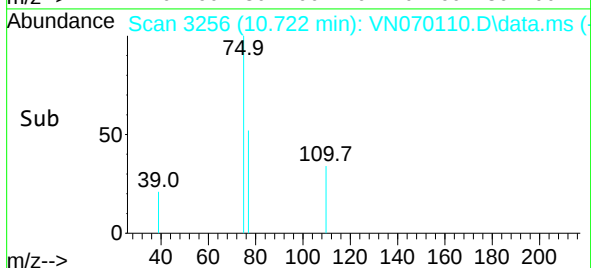
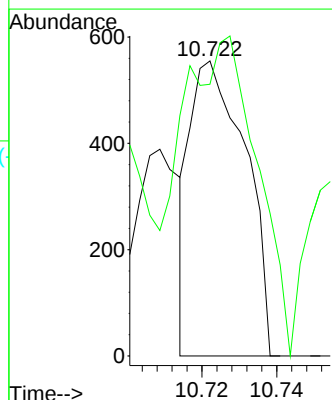
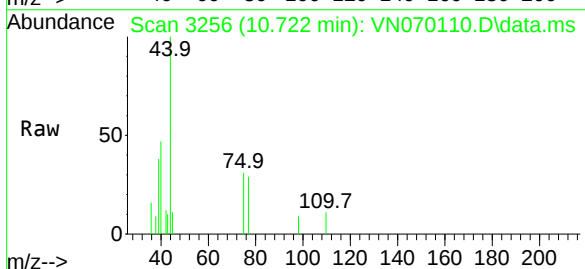
Acq: 15 Dec 2021 14:36

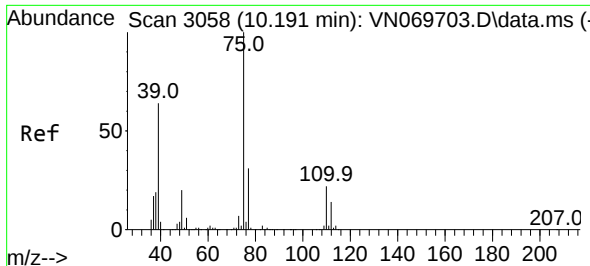
Tgt Ion: 75 Resp: 569

Ion Ratio Lower Upper

75 100

77 61.3 25.6 38.4#

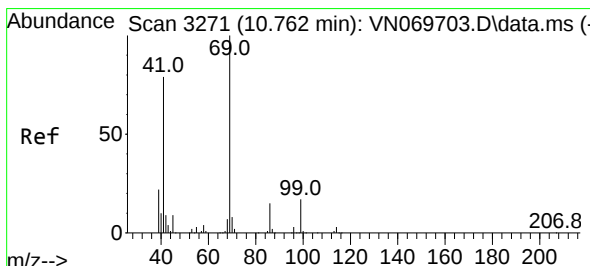
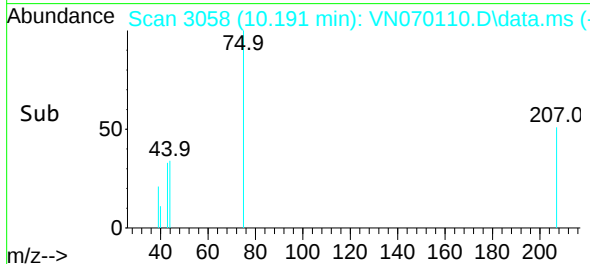
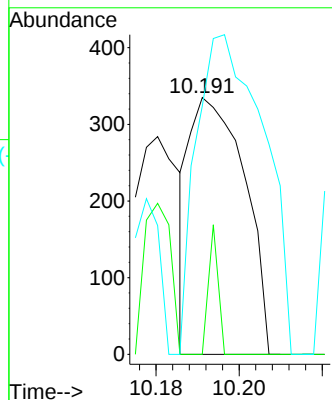
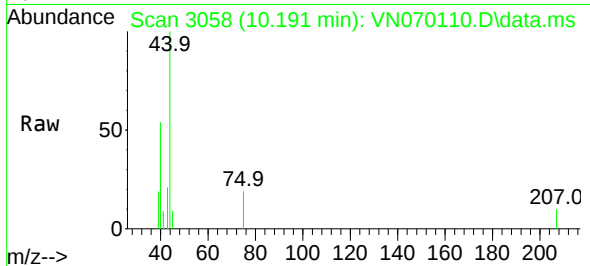




#54
 cis-1,3-Dichloropropene
 Concen: 2.011 ug/l
 RT: 10.191 min Scan# 3058
 Delta R.T. 0.000 min
 Lab File: VN070110.D
 Acq: 15 Dec 2021 14:36

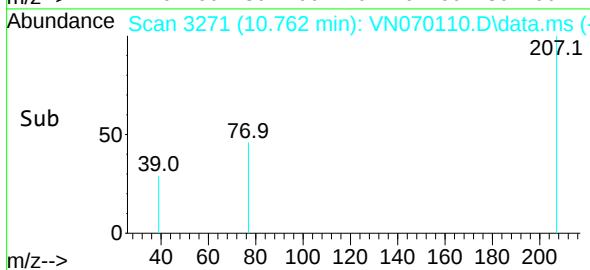
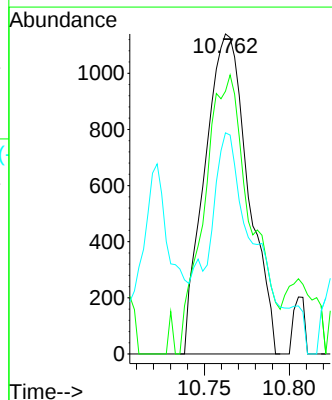
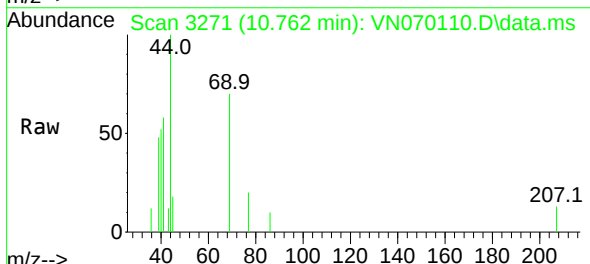
Instrument :
 MSVOA_N
 ClientSampleId :

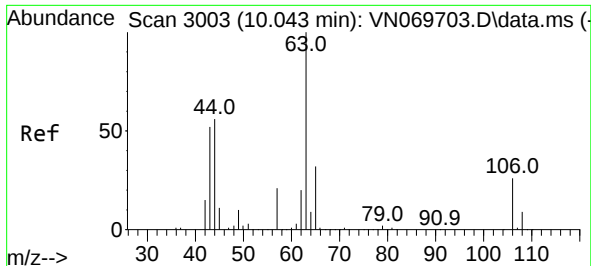
Tgt Ion: 75 Resp: 308
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.4 39.6#
 39 96.7 42.5 63.7#



#56
 Ethyl methacrylate
 Concen: 2.351 ug/l
 RT: 10.762 min Scan# 3271
 Delta R.T. 0.000 min
 Lab File: VN070110.D
 Acq: 15 Dec 2021 14:36

Tgt Ion: 69 Resp: 2028
 Ion Ratio Lower Upper
 69 100
 41 93.4 51.4 77.0#
 39 46.7 34.6 52.0

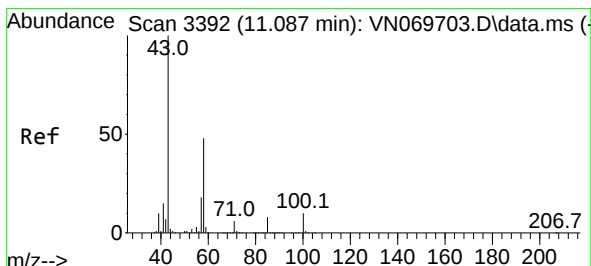
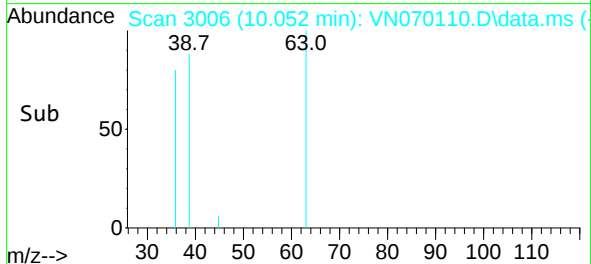
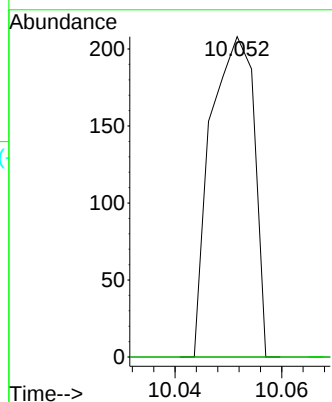
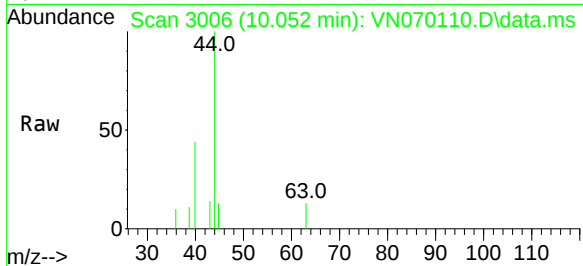




#58
2-Chloroethyl Vinyl ether
Concen: 18.404 ug/l
RT: 10.052 min Scan# 3006
Delta R.T. 0.009 min
Lab File: VN070110.D
Acq: 15 Dec 2021 14:36

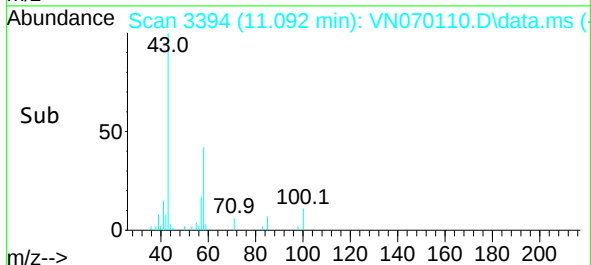
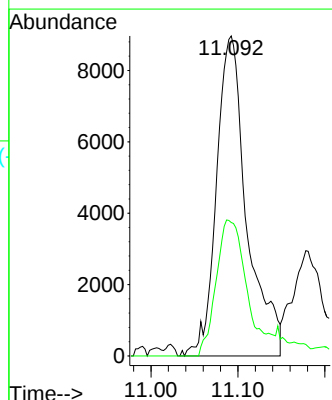
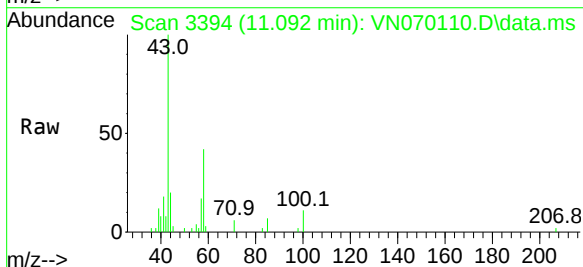
Instrument :
MSVOA_N
ClientSampleId :

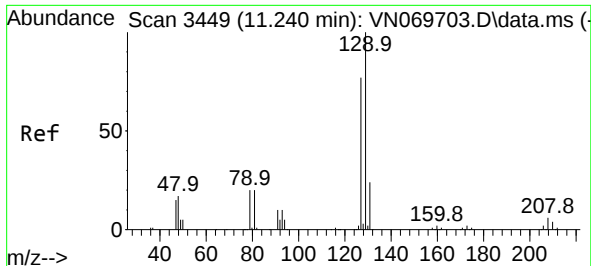
Tgt Ion: 63 Resp: 118
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#



#59
2-Hexanone
Concen: 1.060 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN070110.D
Acq: 15 Dec 2021 14:36

Tgt Ion: 43 Resp: 21730
Ion Ratio Lower Upper
43 100
58 43.1 26.9 80.7

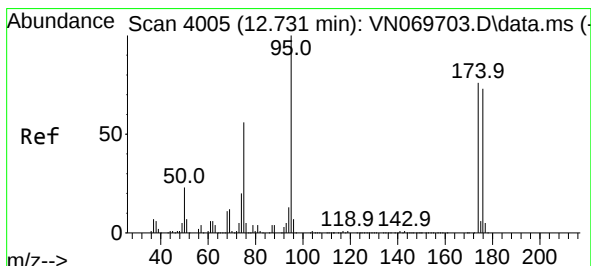
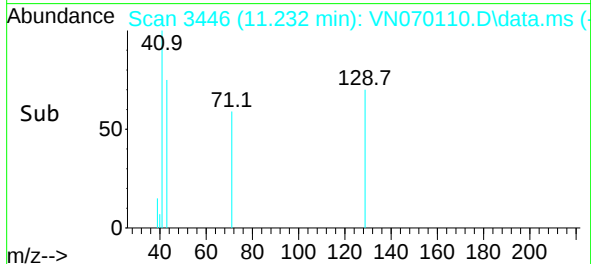
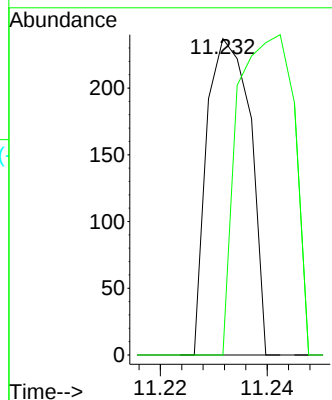
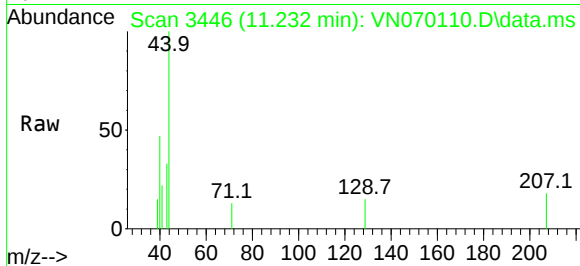




#60
Dibromochloromethane
Concen: 2.384 ug/l
RT: 11.232 min Scan# 3449
Delta R.T. -0.008 min
Lab File: VN070110.D
Acq: 15 Dec 2021 14:36

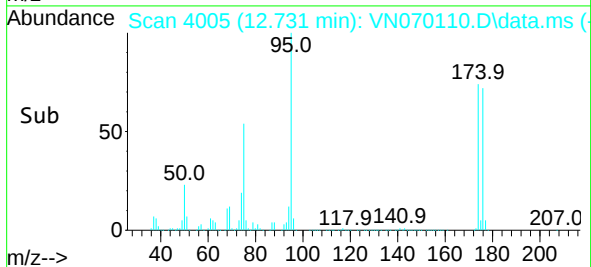
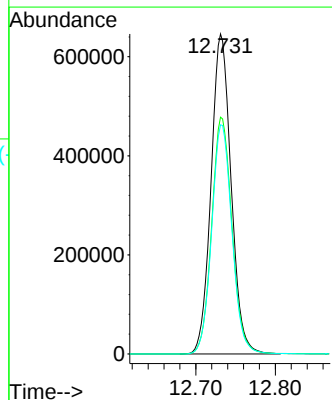
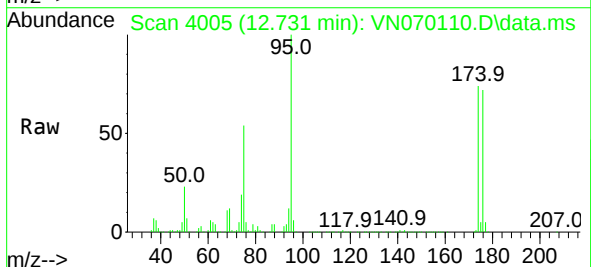
Instrument :
MSVOA_N
ClientSampleId :

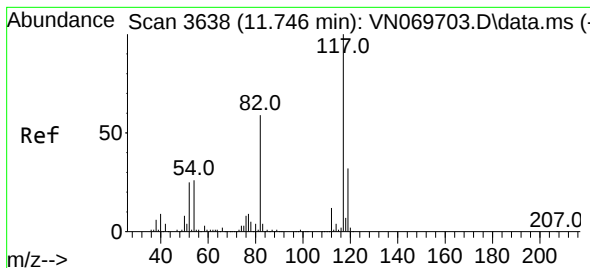
Tgt Ion:129 Resp: 133
Ion Ratio Lower Upper
129 100
127 131.6 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 62.289 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN070110.D
Acq: 15 Dec 2021 14:36

Tgt Ion: 95 Resp: 1130744
Ion Ratio Lower Upper
95 100
174 75.0 0.0 187.2
176 72.3 0.0 181.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.744 min Scan# 3637

Delta R.T. -0.002 min

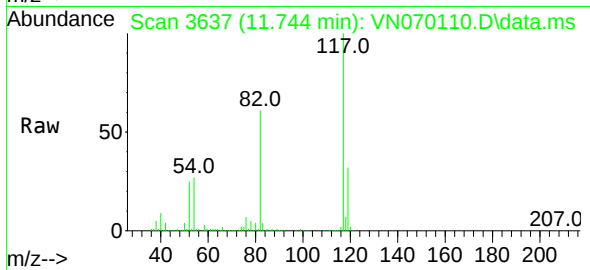
Lab File: VN070110.D

Acq: 15 Dec 2021 14:36

Instrument :

MSVOA_N

ClientSampleId :



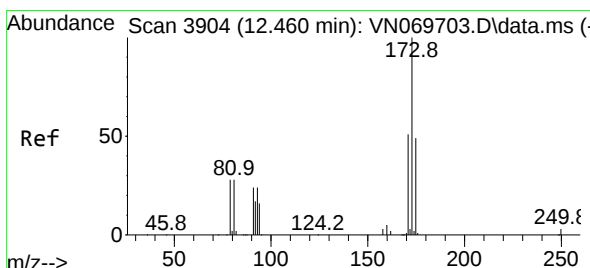
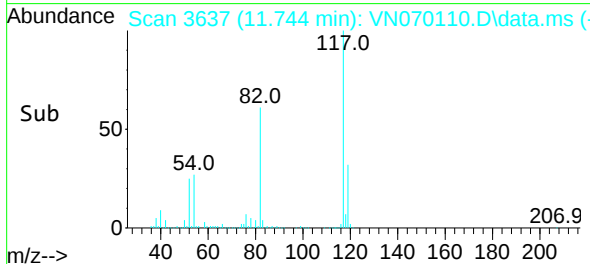
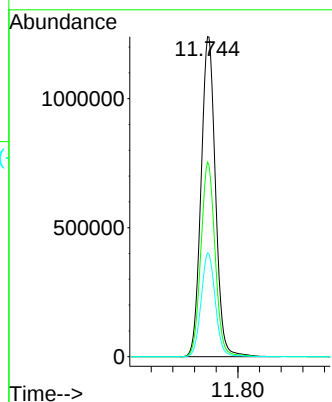
Tgt Ion:117 Resp: 2290844

Ion Ratio Lower Upper

117 100

82 60.8 42.4 63.6

119 32.4 25.4 38.2



#71

Bromoform

Concen: 2.758 ug/l

RT: 12.465 min Scan# 3906

Delta R.T. 0.005 min

Lab File: VN070110.D

Acq: 15 Dec 2021 14:36

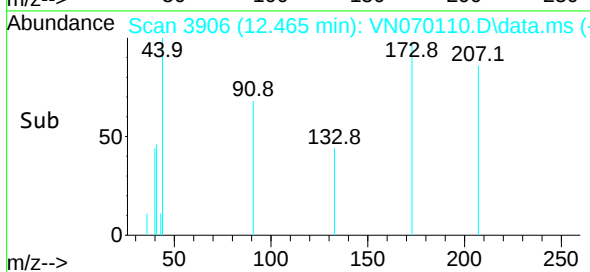
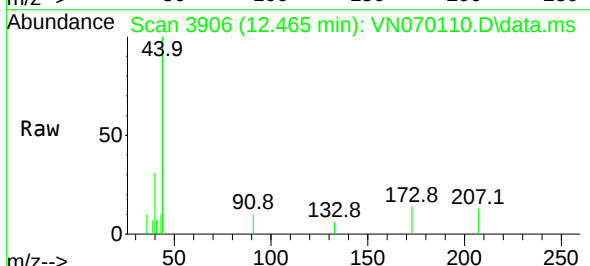
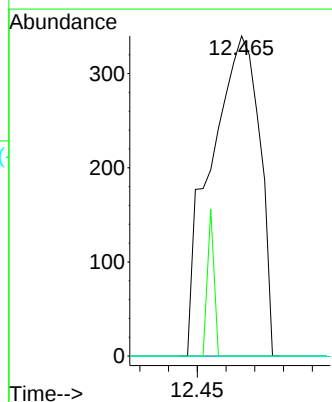
Tgt Ion:173 Resp: 401

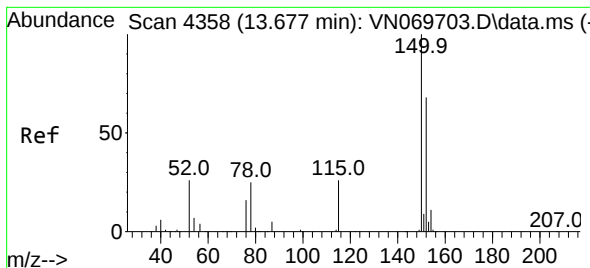
Ion Ratio Lower Upper

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# 41

Delta R.T. -0.002 min

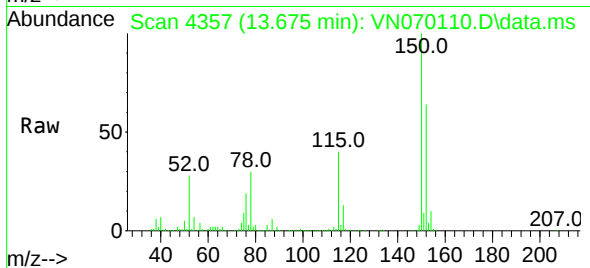
Lab File: VN070110.D

Acq: 15 Dec 2021 14:36

Instrument :

MSVOA_N

ClientSampleId :



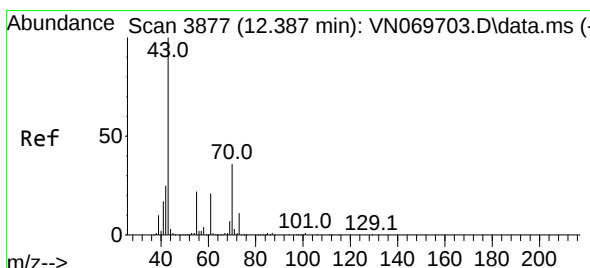
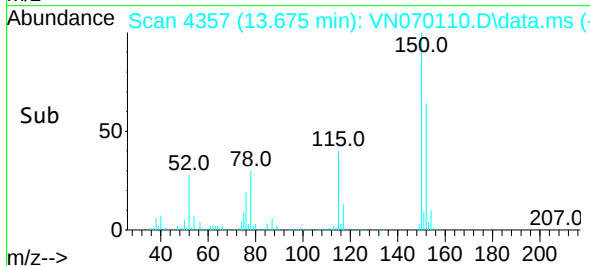
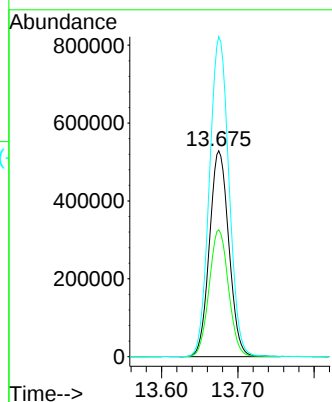
Tgt Ion:152 Resp: 935595

Ion Ratio Lower Upper

152 100

115 61.3 27.5 82.5

150 156.4 0.0 344.4



#74

N-ethyl acetate

Concen: 0.312 ug/l

RT: 12.393 min Scan# 3879

Delta R.T. 0.006 min

Lab File: VN070110.D

Acq: 15 Dec 2021 14:36

Tgt Ion: 43 Resp: 11486

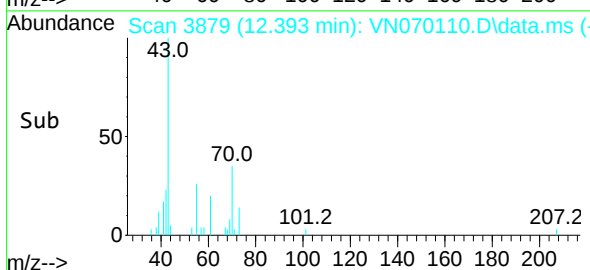
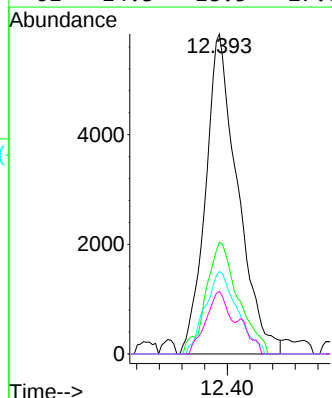
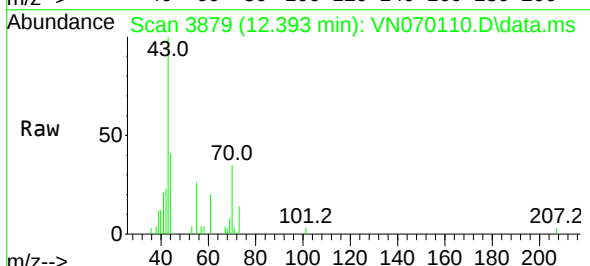
Ion Ratio Lower Upper

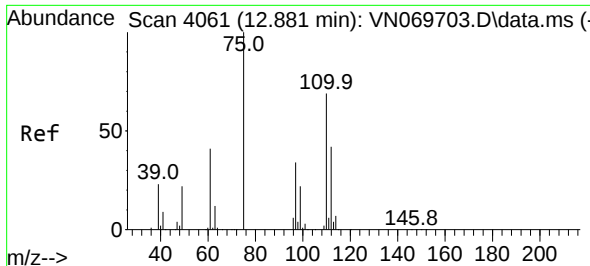
43 100

70 35.1 33.4 50.0

55 25.8 19.3 28.9

61 14.3 18.5 27.7#

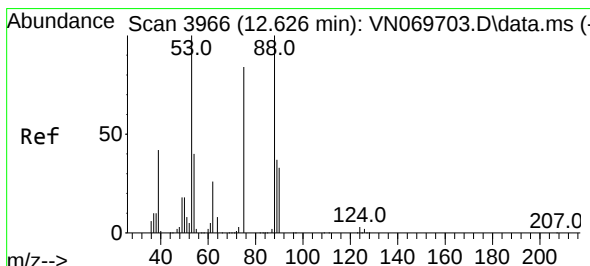
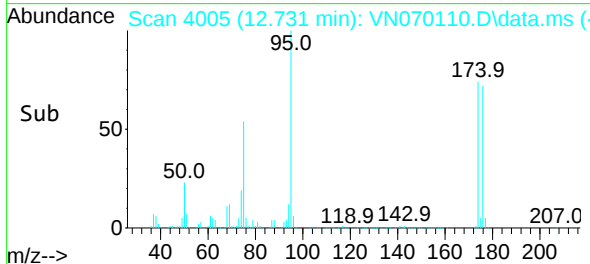
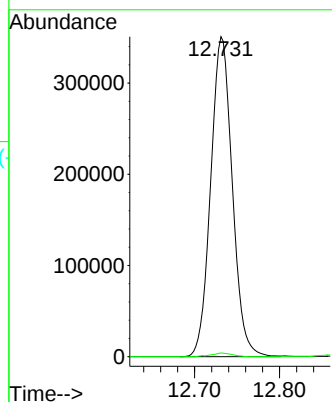
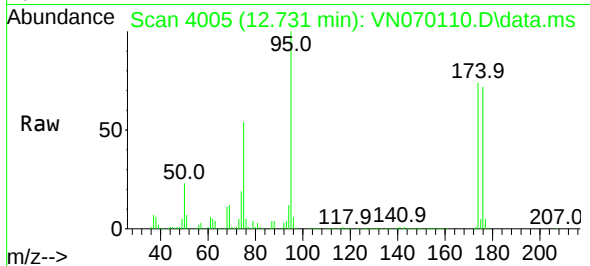




#76
1,2,3-Trichloropropane
Concen: 23.091 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN070110.D
Acq: 15 Dec 2021 14:36

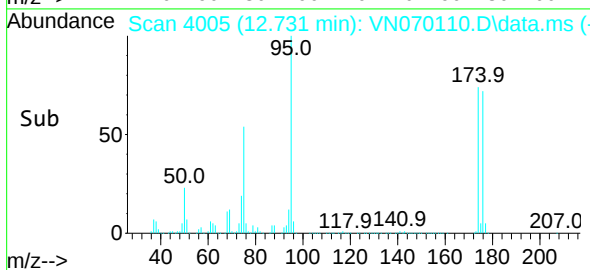
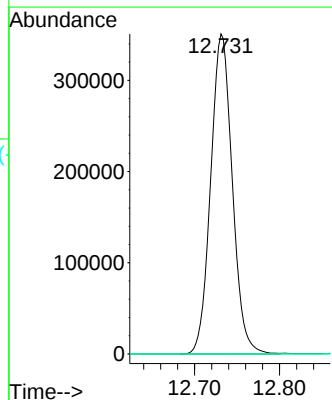
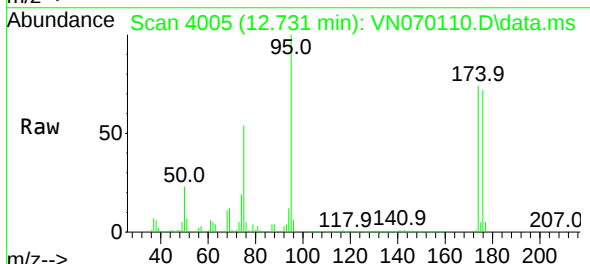
Instrument :
MSVOA_N
ClientSampleId :

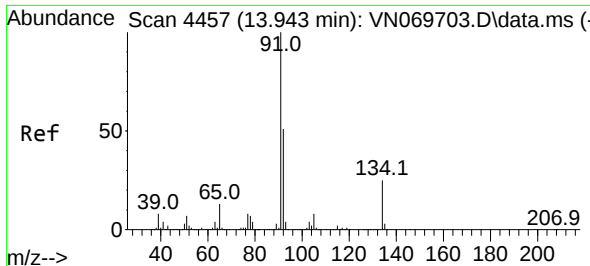
Tgt Ion: 75 Resp: 619545
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.497 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN070110.D
Acq: 15 Dec 2021 14:36

Tgt Ion: 75 Resp: 619545
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#

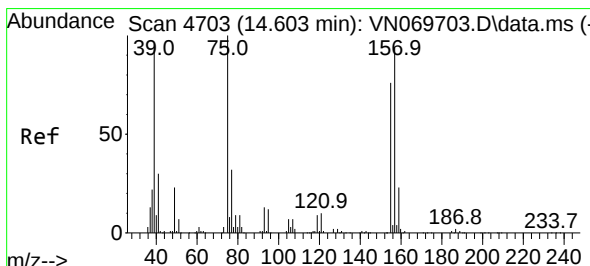
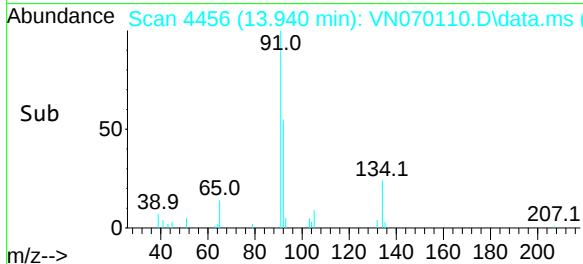
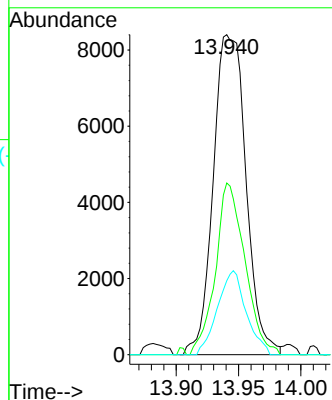
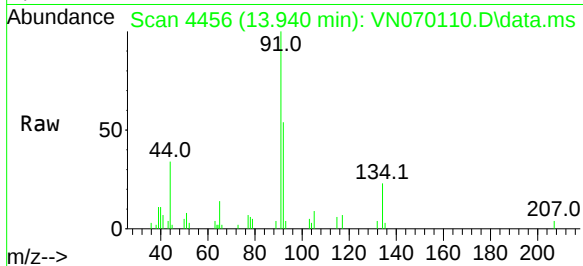




#89
n-Butylbenzene
Concen: 0.301 ug/l
RT: 13.940 min Scan# 4457
Delta R.T. -0.002 min
Lab File: VN070110.D
Acq: 15 Dec 2021 14:36

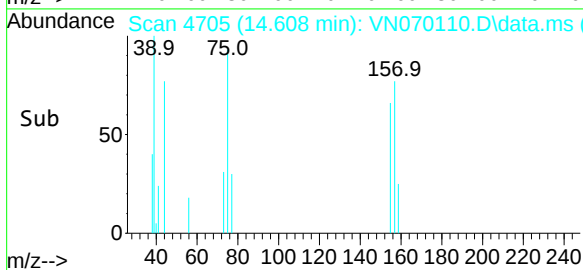
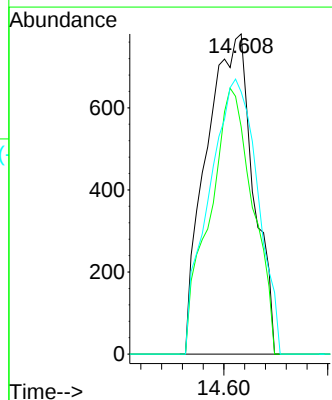
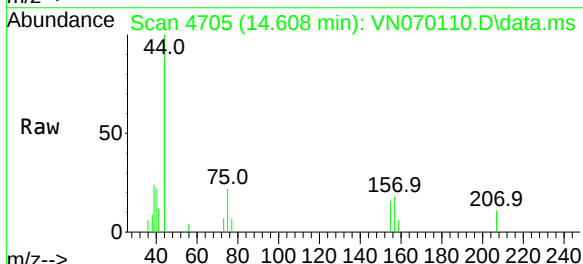
Instrument :
MSVOA_N
ClientSampleId :

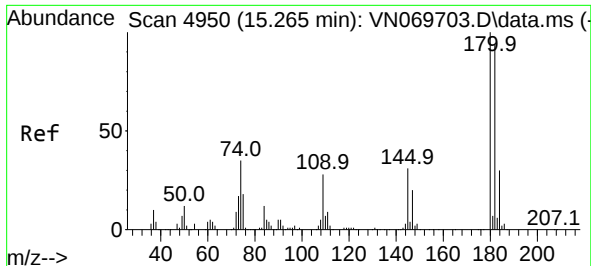
Tgt Ion: 91	Resp: 15369
Ion Ratio	Lower Upper
91	100
92	48.4 25.4 76.0
134	23.0 13.6 40.8



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.236 ug/l
RT: 14.608 min Scan# 4705
Delta R.T. 0.006 min
Lab File: VN070110.D
Acq: 15 Dec 2021 14:36

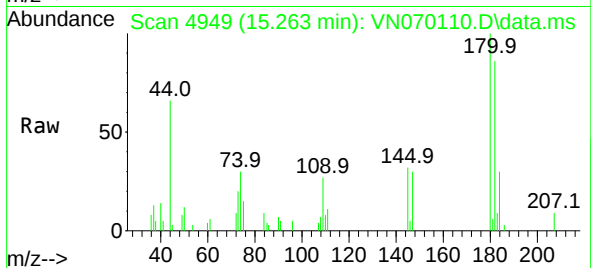
Tgt Ion: 75	Resp: 1225
Ion Ratio	Lower Upper
75	100
155	76.3 46.9 140.7
157	88.7 60.6 181.7



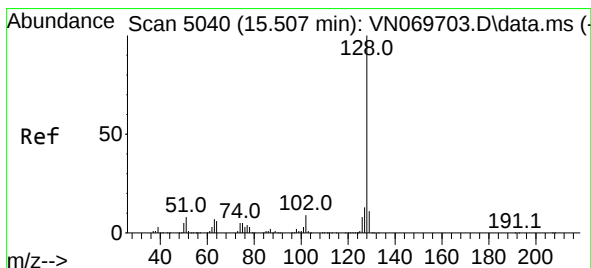
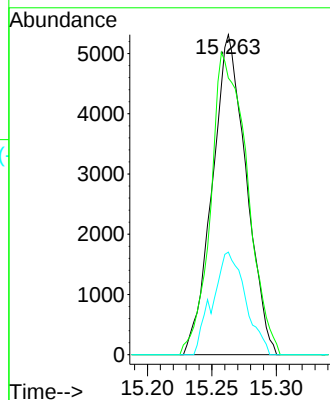
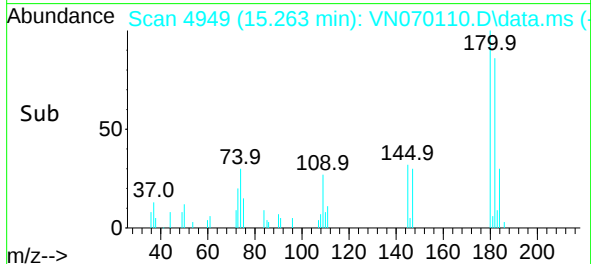


#93
1,2,4-Trichlorobenzene
Concen: 3.475 ug/l
RT: 15.263 min Scan# 4950
Delta R.T. -0.002 min
Lab File: VN070110.D
Acq: 15 Dec 2021 14:36

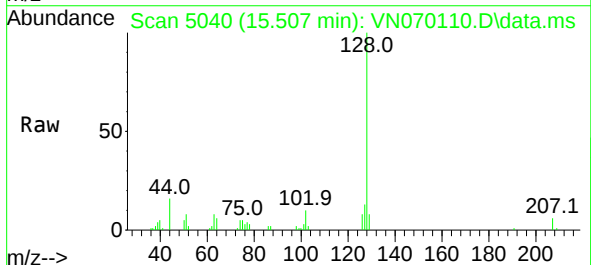
Instrument :
MSVOA_N
ClientSampleId :



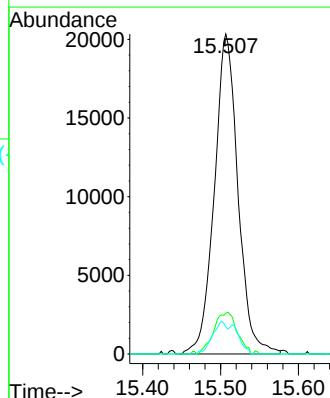
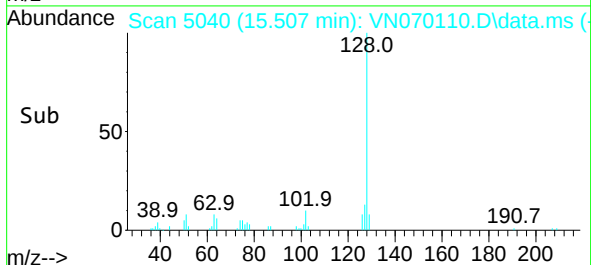
Tgt Ion:180 Resp: 9721
Ion Ratio Lower Upper
180 100
182 101.2 48.3 144.9
145 31.2 14.5 43.5

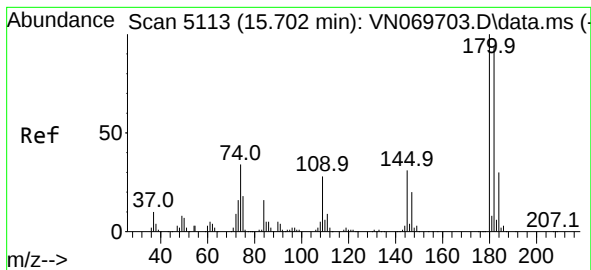


#95
Naphthalene
Concen: 4.847 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.000 min
Lab File: VN070110.D
Acq: 15 Dec 2021 14:36



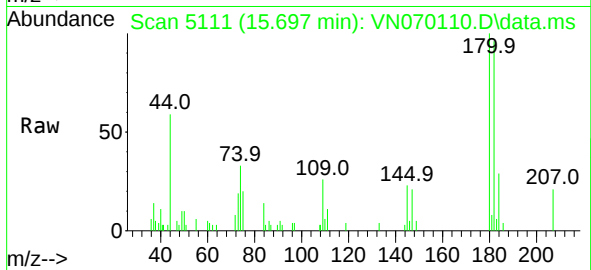
Tgt Ion:128 Resp: 42815
Ion Ratio Lower Upper
128 100
127 12.8 10.5 15.7
129 6.4 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 3.178 ug/l
 RT: 15.697 min Scan# 51
 Delta R.T. -0.005 min
 Lab File: VN070110.D
 Acq: 15 Dec 2021 14:36

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:180 Resp: 11675
 Ion Ratio Lower Upper
 180 100
 182 101.7 47.4 142.2
 145 29.8 15.0 45.1

