

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121821\
 Data File : VN070214.D
 Acq On : 18 Dec 2021 15:36
 Operator : JC/MD
 Sample : M5044-05 10X
 Misc : 6.29g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 19 08:46:31 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)

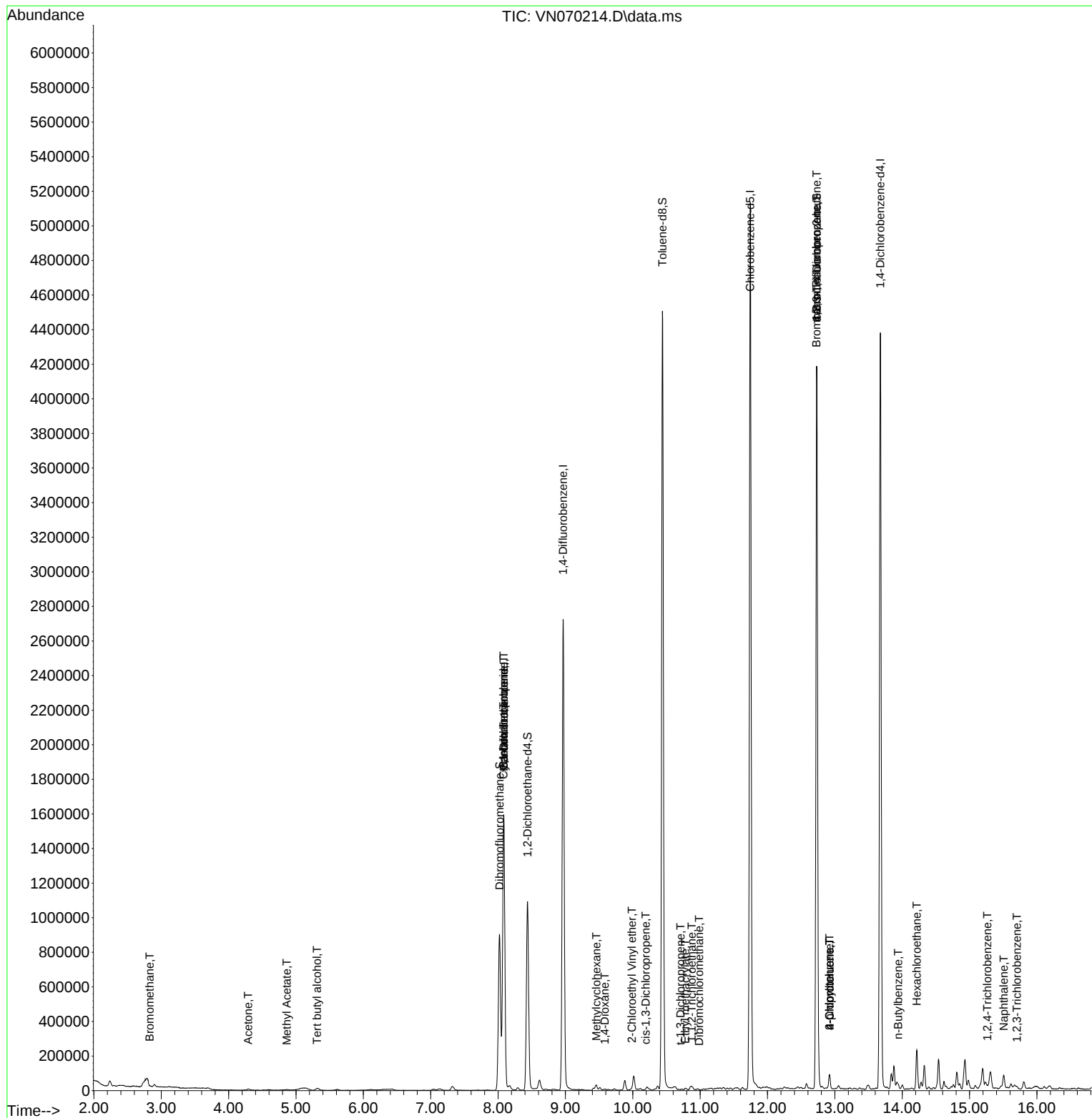
Internal Standards						
1) Pentafluorobenzene	8.086	168	1194753	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.965	114	2274308	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2793118	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	1166648	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	939509	50.930	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 101.860%	
35) Dibromofluoromethane	8.021	113	654464	45.941	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 91.880%	
50) Toluene-d8	10.440	98	3059501	53.486	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 106.980%	
62) 4-Bromofluorobenzene	12.731	95	1434968	69.246	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 138.500%#	
Target Compounds						
					Qvalue	
5) Bromomethane	2.829	94	1887	0.216	ug/l	96
11) Tert butyl alcohol	5.312	59	6900	1.979	ug/l #	71
16) Acetone	4.291	43	6117	0.551	ug/l	91
18) Methyl Acetate	4.865	43	7290	0.218	ug/l #	70
31) Cyclohexane	8.080	56	31300	1.219	ug/l #	27
36) 1,1-Dichloropropene	8.083	75	100362	4.636	ug/l #	49
38) Carbon Tetrachloride	8.083	117	119073	5.608	ug/l #	16
39) Methylcyclohexane	9.459	83	7301	0.284	ug/l	93
49) 1,4-Dioxane	9.585	88	86	0.215	ug/l #	1
53) t-1,3-Dichloropropene	10.709	75	61	2.796	ug/l #	43
54) cis-1,3-Dichloropropene	10.191	75	89	2.002	ug/l #	25
55) 1,1,2-Trichloroethane	10.875	97	4076	0.250	ug/l #	28
56) Ethyl methacrylate	10.778	69	1876	2.337	ug/l #	68
58) 2-Chloroethyl Vinyl ether	9.987	63	25	18.392	ug/l #	45
60) Dibromochloromethane	10.985	129	50	2.379	ug/l #	11
71) Bromoform	12.728	173	10227	3.298	ug/l #	1
76) 1,2,3-Trichloropropane	12.731	75	785804	23.487	ug/l #	1
78) n-propylbenzene	12.921	91	66041	0.572	ug/l	95
79) 2-Chlorotoluene	12.921	91	66041	0.905	ug/l #	38
81) trans-1,4-Dichloro-2-b...	12.731	75	785804	74.688	ug/l #	5
82) 4-Chlorotoluene	12.921	91	66041	0.962	ug/l #	38
89) n-Butylbenzene	13.940	91	18510	0.291	ug/l #	71
90) Hexachloroethane	14.217	117	13933	1.012	ug/l #	6
93) 1,2,4-Trichlorobenzene	15.265	180	2212	2.987	ug/l #	21
95) Naphthalene	15.507	128	70405	5.122	ug/l	99
96) 1,2,3-Trichlorobenzene	15.702	180	2125	2.544	ug/l #	81

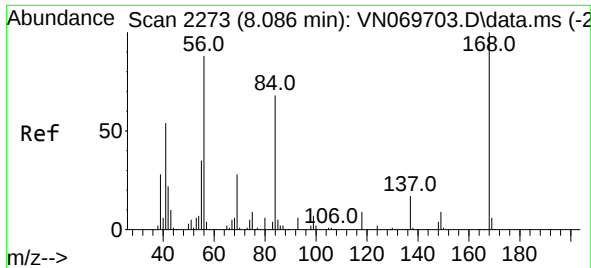
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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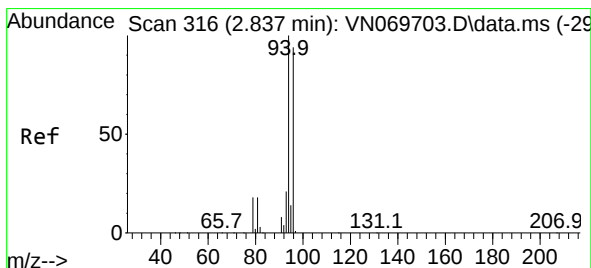
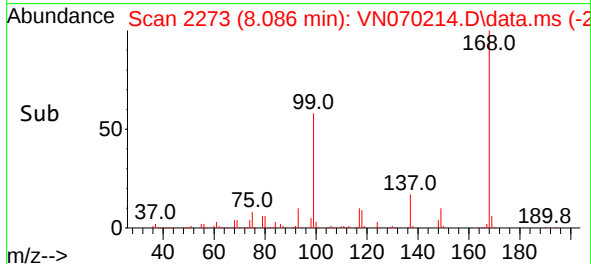
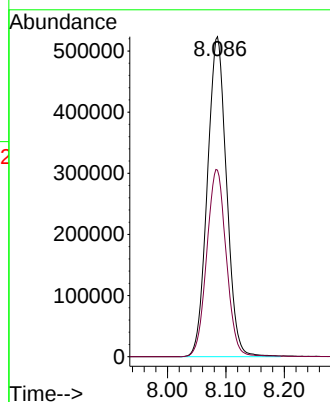
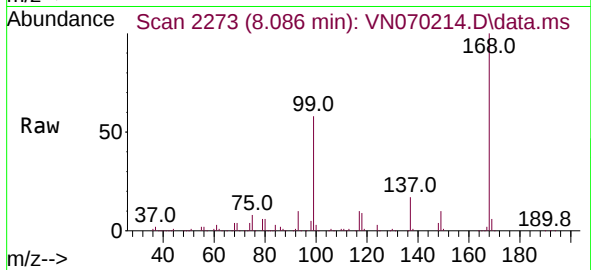




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN070214.D
Acq: 18 Dec 2021 15:36

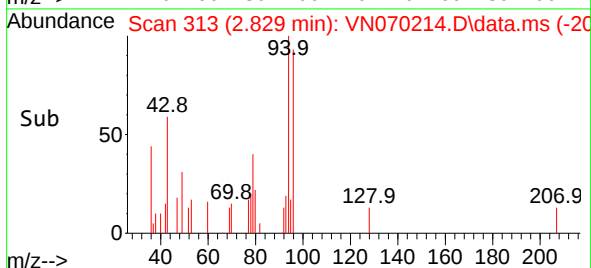
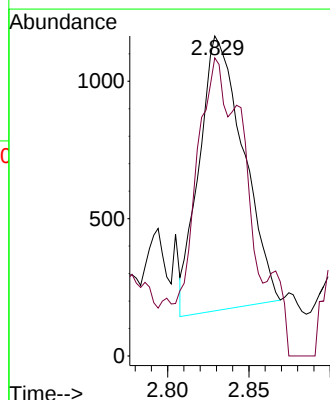
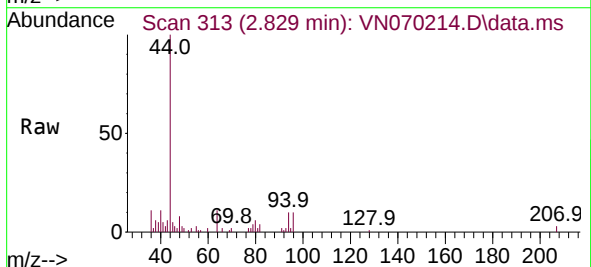
Instrument :
MSVOA_N
ClientSampleId :

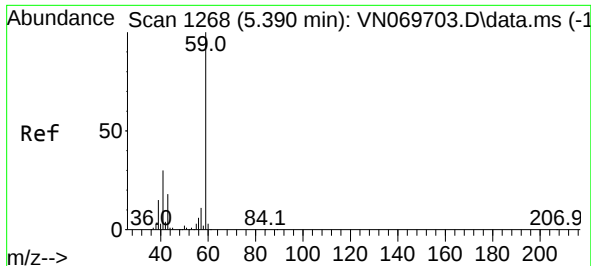
Tgt Ion:168 Resp: 1194753
Ion Ratio Lower Upper
168 100
99 58.3 41.3 61.9



#5
Bromomethane
Concen: 0.216 ug/l
RT: 2.829 min Scan# 313
Delta R.T. -0.008 min
Lab File: VN070214.D
Acq: 18 Dec 2021 15:36

Tgt Ion: 94 Resp: 1887
Ion Ratio Lower Upper
94 100
96 88.1 73.8 110.8

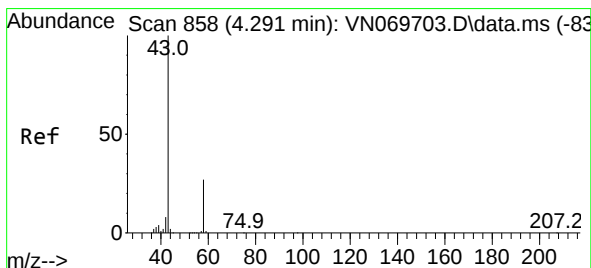
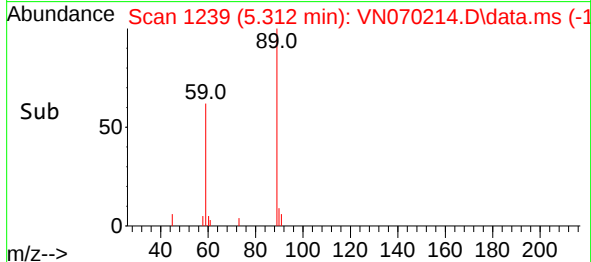
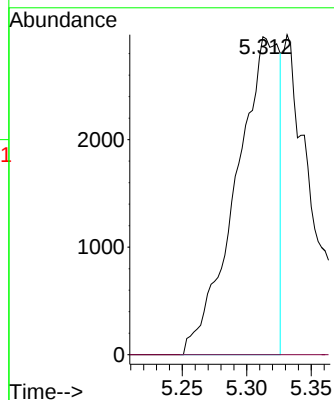
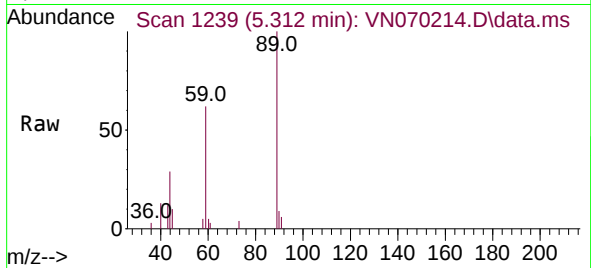




#11
Tert butyl alcohol
Concen: 1.979 ug/l
RT: 5.312 min Scan# 11
Delta R.T. -0.078 min
Lab File: VN070214.D
Acq: 18 Dec 2021 15:36

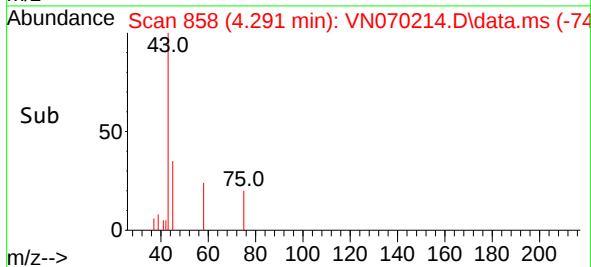
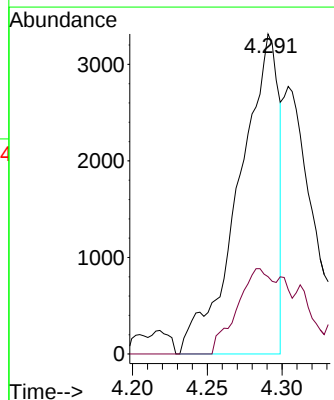
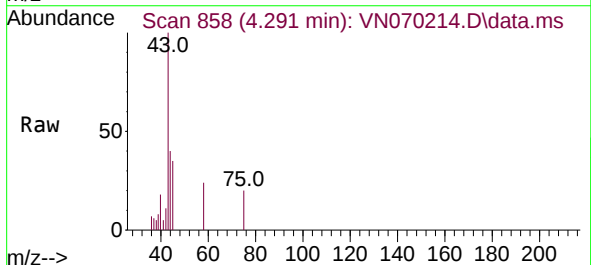
Instrument :
MSVOA_N
ClientSampleId :

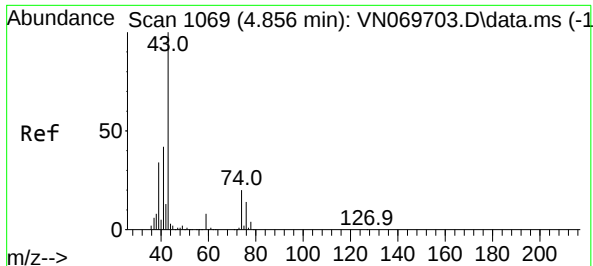
Tgt Ion: 59 Resp: 6900
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#16
Acetone
Concen: 0.551 ug/l
RT: 4.291 min Scan# 858
Delta R.T. 0.000 min
Lab File: VN070214.D
Acq: 18 Dec 2021 15:36

Tgt Ion: 43 Resp: 6117
Ion Ratio Lower Upper
43 100
58 24.2 23.1 34.7





#18

Methyl Acetate

Concen: 0.218 ug/l

RT: 4.865 min Scan# 1069

Delta R.T. 0.008 min

Lab File: VN070214.D

Acq: 18 Dec 2021 15:36

Instrument :

MSVOA_N

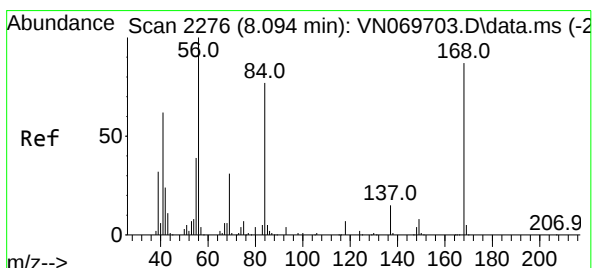
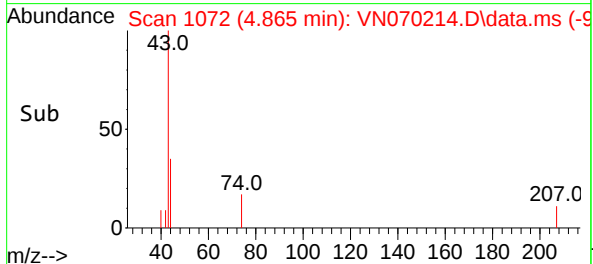
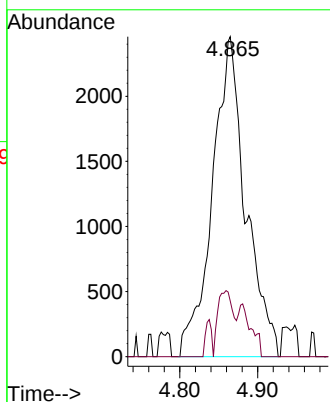
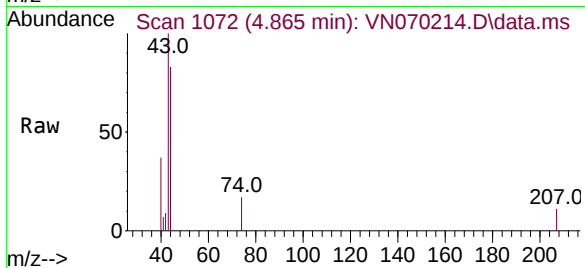
ClientSampleId :

Tgt Ion: 43 Resp: 7290

Ion Ratio Lower Upper

43 100

74 9.6 19.4 29.2#



#31

Cyclohexane

Concen: 1.219 ug/l

RT: 8.080 min Scan# 2271

Delta R.T. -0.013 min

Lab File: VN070214.D

Acq: 18 Dec 2021 15:36

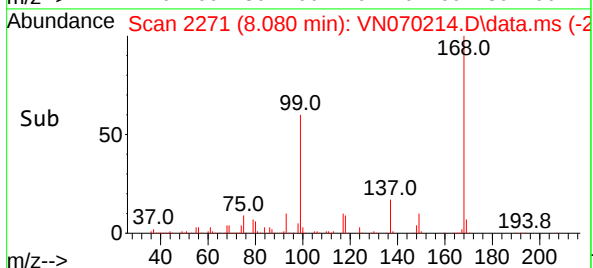
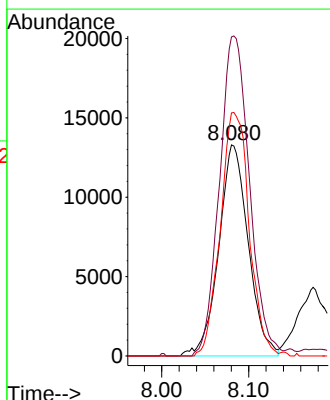
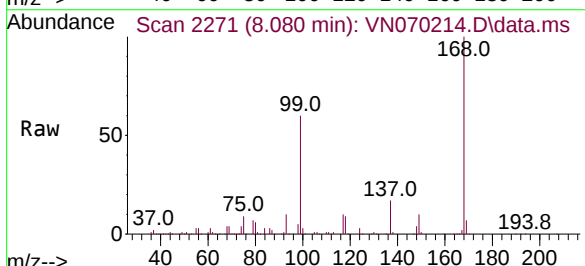
Tgt Ion: 56 Resp: 31300

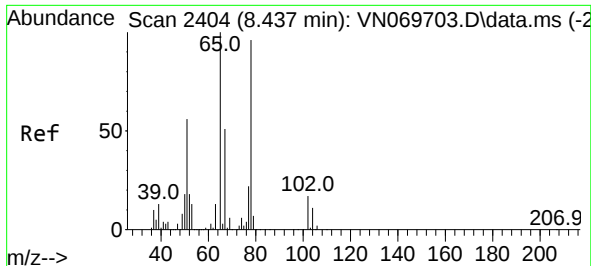
Ion Ratio Lower Upper

56 100

69 151.2 27.1 40.7#

84 115.1 73.4 110.0#





#33

1,2-Dichloroethane-d4

Concen: 50.930 ug/l

RT: 8.437 min Scan# 2404

Delta R.T. 0.000 min

Lab File: VN070214.D

Acq: 18 Dec 2021 15:36

Instrument :

MSVOA_N

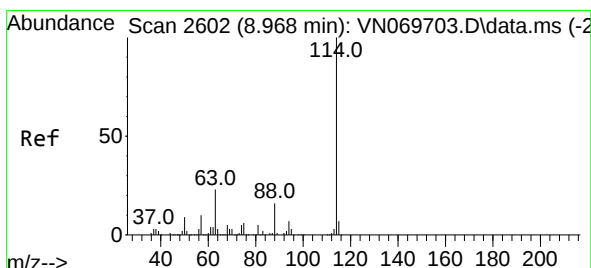
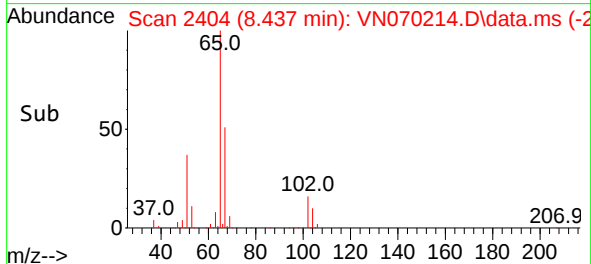
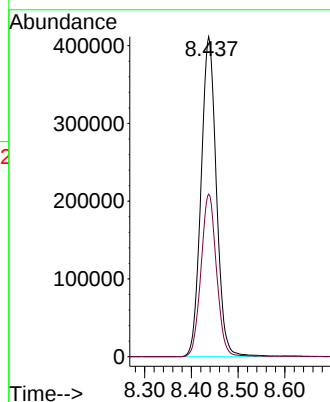
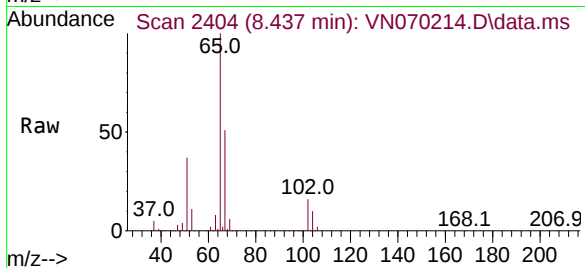
ClientSampleId :

Tgt Ion: 65 Resp: 939509

Ion Ratio Lower Upper

65 100

67 51.2 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.965 min Scan# 2601

Delta R.T. -0.003 min

Lab File: VN070214.D

Acq: 18 Dec 2021 15:36

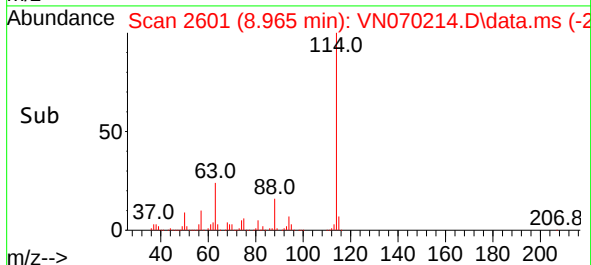
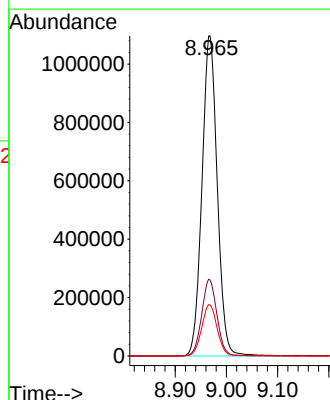
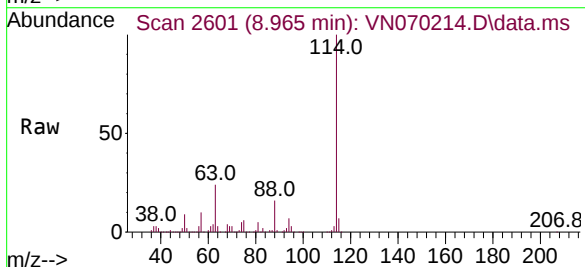
Tgt Ion: 114 Resp: 2274308

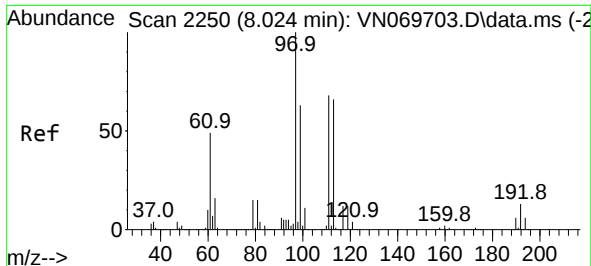
Ion Ratio Lower Upper

114 100

63 24.0 0.0 37.8

88 16.0 0.0 27.4

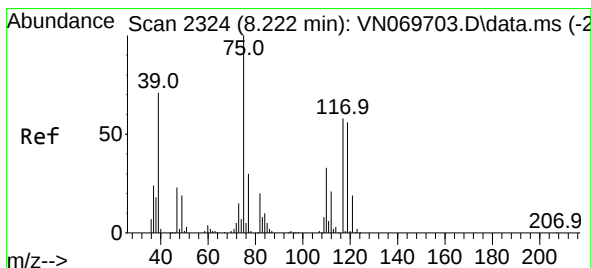
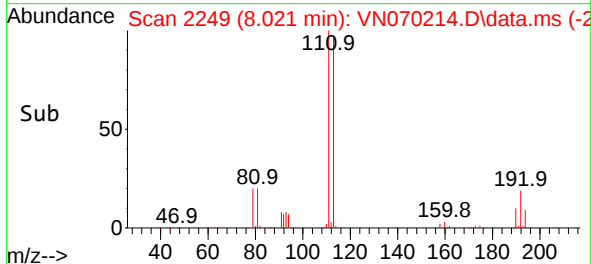
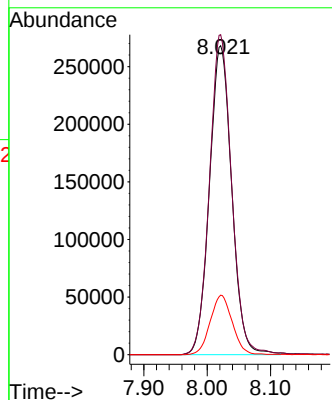
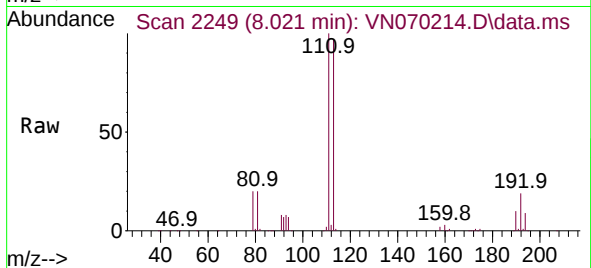




#35
 Dibromofluoromethane
 Concen: 45.941 ug/l
 RT: 8.021 min Scan# 211
 Delta R.T. -0.003 min
 Lab File: VN070214.D
 Acq: 18 Dec 2021 15:36

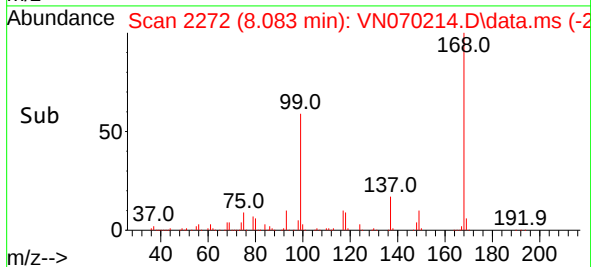
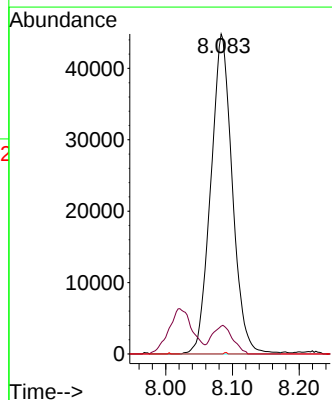
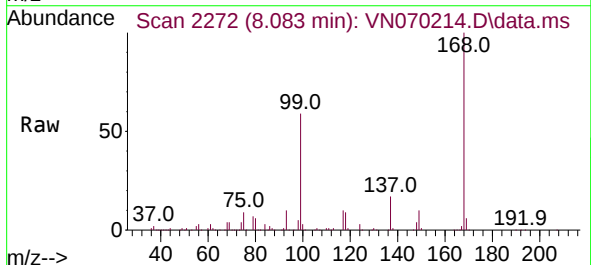
Instrument :
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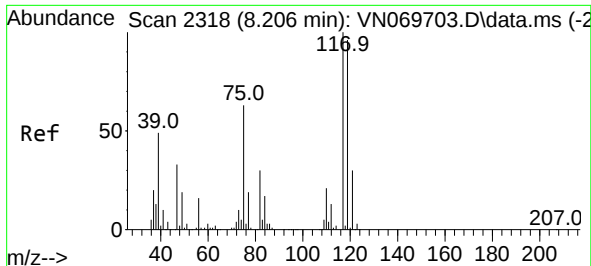
Tgt Ion:113 Resp: 654464
 Ion Ratio Lower Upper
 113 100
 111 102.9 82.2 123.2
 192 19.2 16.9 25.3



#36
 1,1-Dichloropropene
 Concen: 4.636 ug/l
 RT: 8.083 min Scan# 2272
 Delta R.T. -0.139 min
 Lab File: VN070214.D
 Acq: 18 Dec 2021 15:36

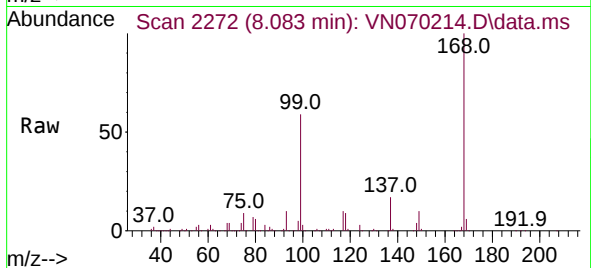
Tgt Ion: 75 Resp: 100362
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.4 55.2#
 77 0.1 24.4 36.6#



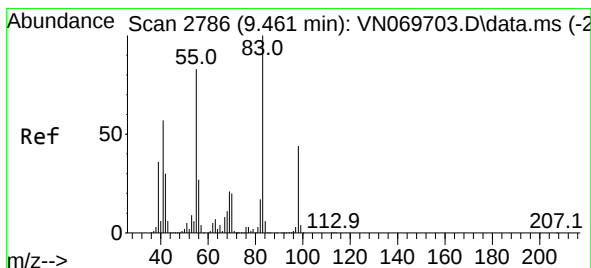
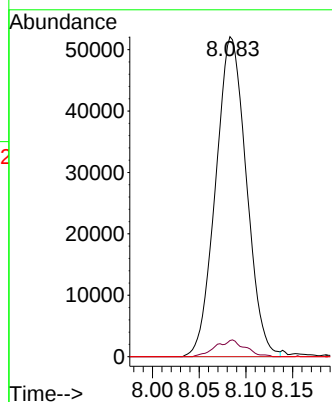
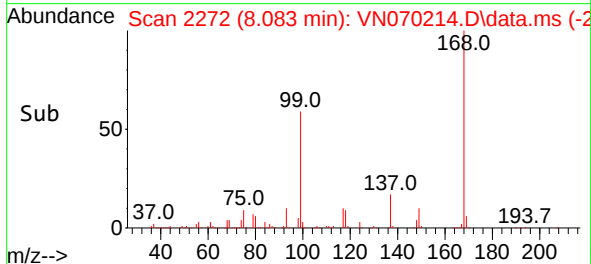


#38
Carbon Tetrachloride
Concen: 5.608 ug/l
RT: 8.083 min Scan# 211
Delta R.T. -0.123 min
Lab File: VN070214.D
Acq: 18 Dec 2021 15:36

Instrument :
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ClientSampleId :

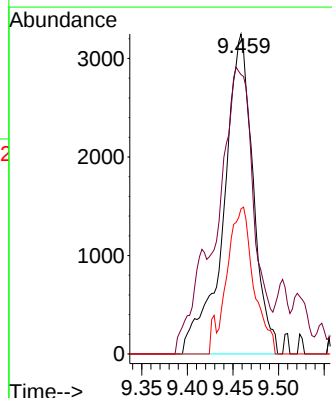
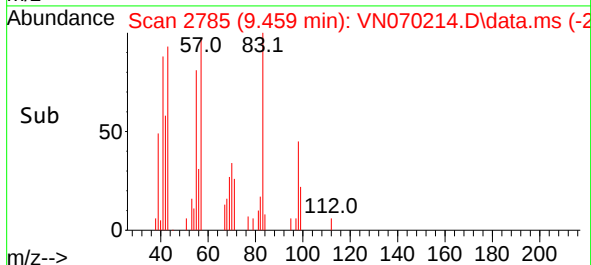
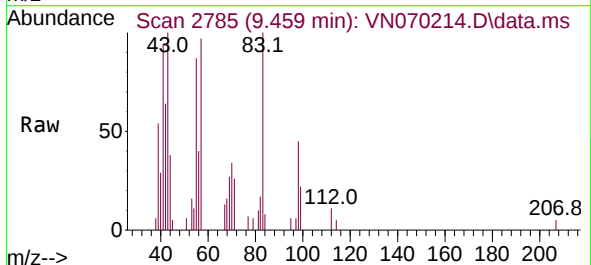


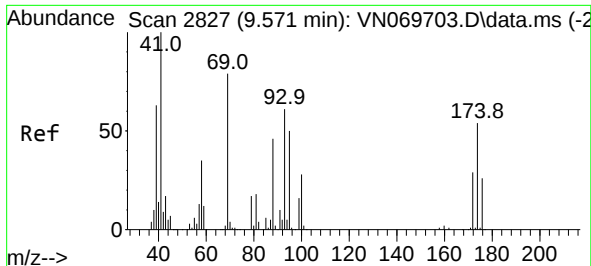
Tgt Ion: 117 Resp: 119073
Ion Ratio Lower Upper
117 100
119 5.0 76.1 114.1#
121 0.0 24.2 36.2#



#39
Methylcyclohexane
Concen: 0.284 ug/l
RT: 9.459 min Scan# 2785
Delta R.T. -0.003 min
Lab File: VN070214.D
Acq: 18 Dec 2021 15:36

Tgt Ion: 83 Resp: 7301
Ion Ratio Lower Upper
83 100
55 80.4 58.1 87.1
98 45.4 38.4 57.6





#49

1,4-Dioxane

Concen: 0.215 ug/l

RT: 9.585 min Scan# 21

Delta R.T. 0.014 min

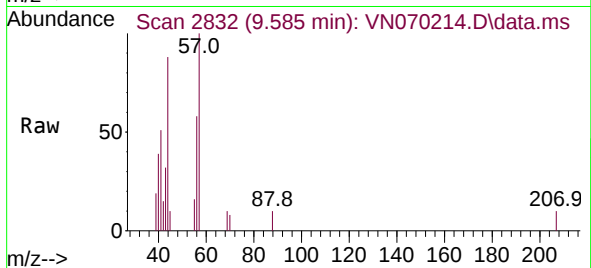
Lab File: VN070214.D

Acq: 18 Dec 2021 15:36

Instrument :

MSVOA_N

ClientSampleId :



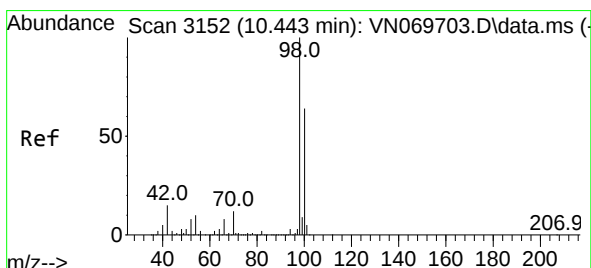
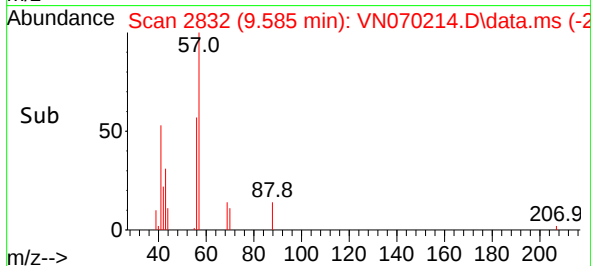
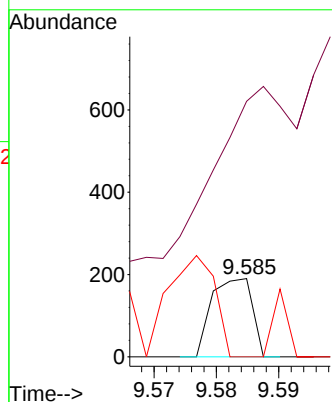
Tgt Ion: 88 Resp: 86

Ion Ratio Lower Upper

88 100

43 969.8 23.4 35.2#

58 31.4 50.6 75.8#



#50

Toluene-d8

Concen: 53.486 ug/l

RT: 10.440 min Scan# 3151

Delta R.T. -0.003 min

Lab File: VN070214.D

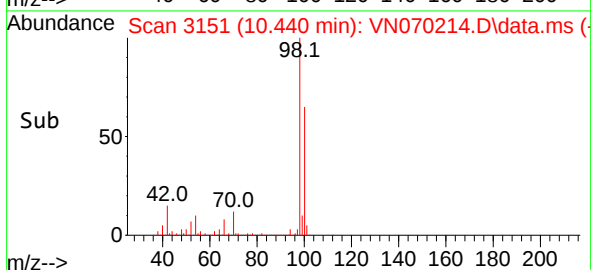
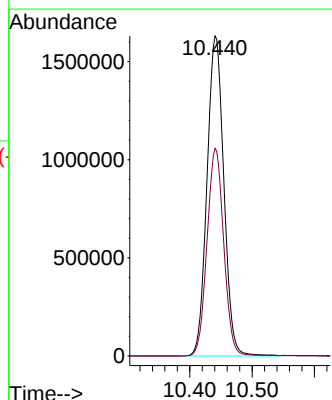
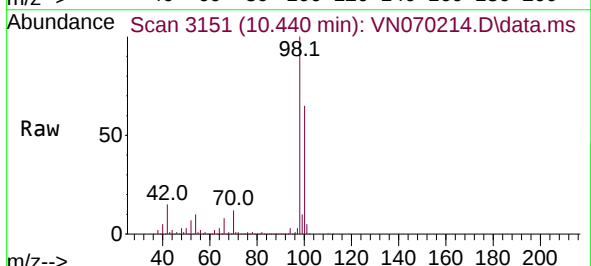
Acq: 18 Dec 2021 15:36

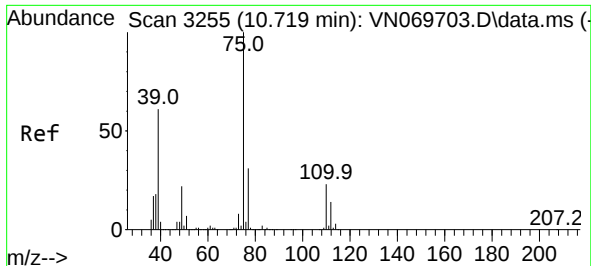
Tgt Ion: 98 Resp: 3059501

Ion Ratio Lower Upper

98 100

100 64.5 50.4 75.6

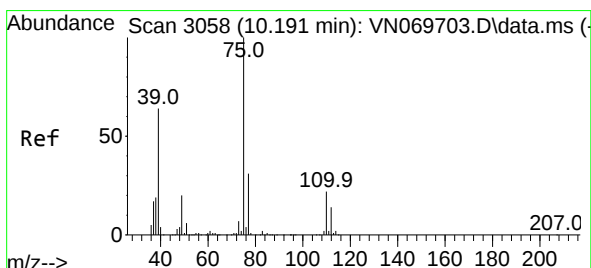
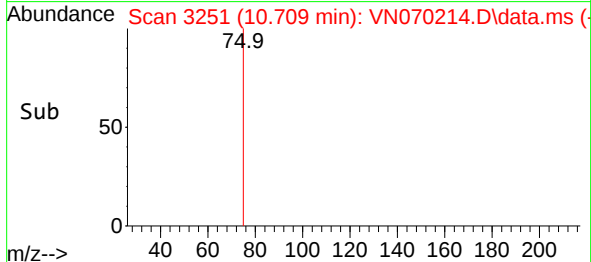
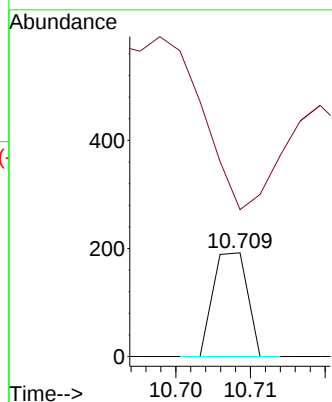
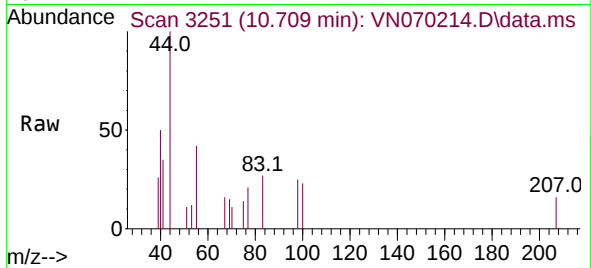




#53
t-1,3-Dichloropropene
Concen: 2.796 ug/l
RT: 10.709 min Scan# 31
Delta R.T. -0.010 min
Lab File: VN070214.D
Acq: 18 Dec 2021 15:36

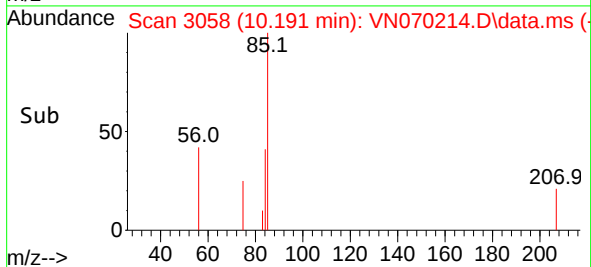
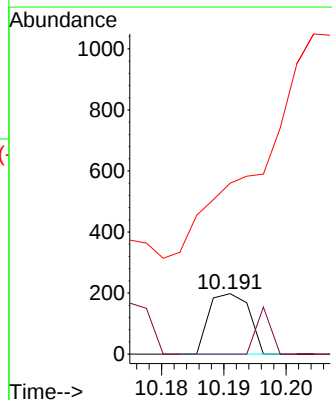
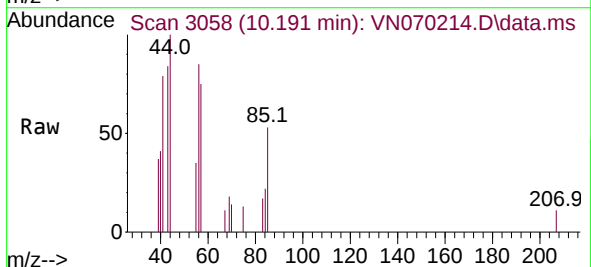
Instrument :
MSVOA_N
ClientSampleId :

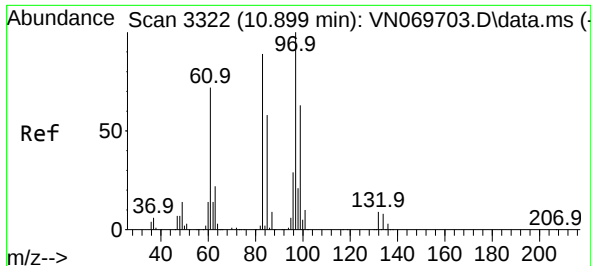
Tgt Ion: 75 Resp: 61
Ion Ratio Lower Upper
75 100
77 0.0 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 2.002 ug/l
RT: 10.191 min Scan# 3058
Delta R.T. -0.000 min
Lab File: VN070214.D
Acq: 18 Dec 2021 15:36

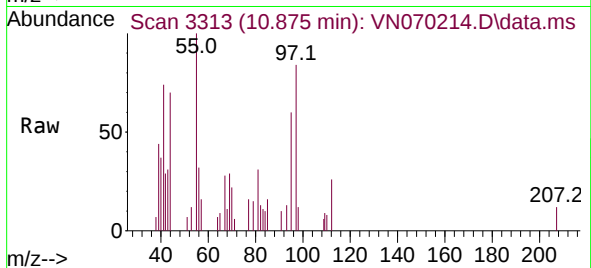
Tgt Ion: 75 Resp: 89
Ion Ratio Lower Upper
75 100
77 0.0 26.4 39.6#
39 114.1 42.5 63.7#



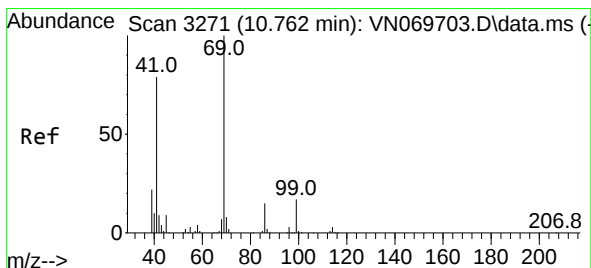
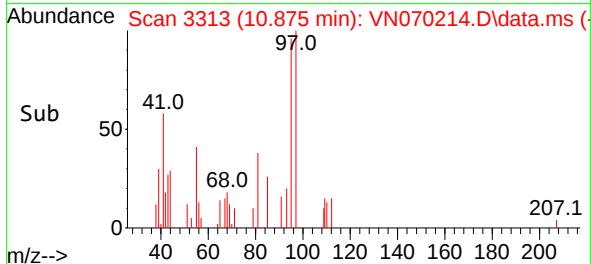
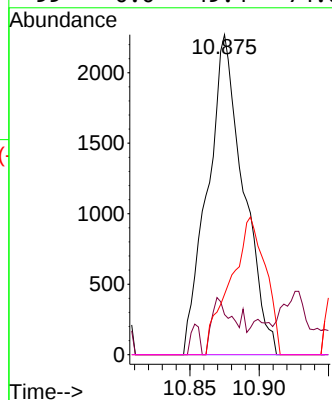


#55
1,1,2-Trichloroethane
Concen: 0.250 ug/l
RT: 10.875 min Scan# 31
Delta R.T. -0.024 min
Lab File: VN070214.D
Acq: 18 Dec 2021 15:36

Instrument :
MSVOA_N
ClientSampleId :

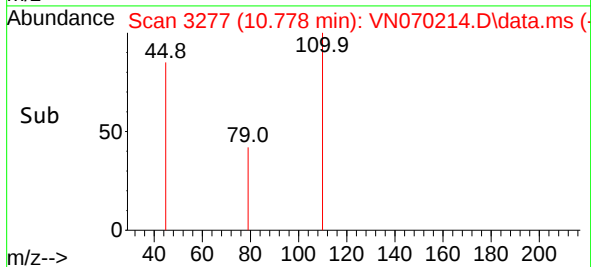
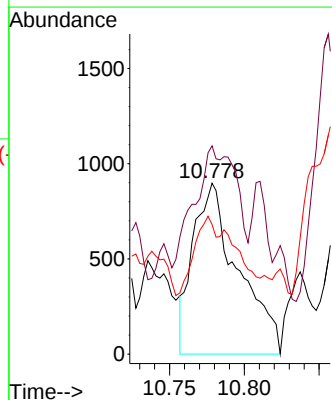
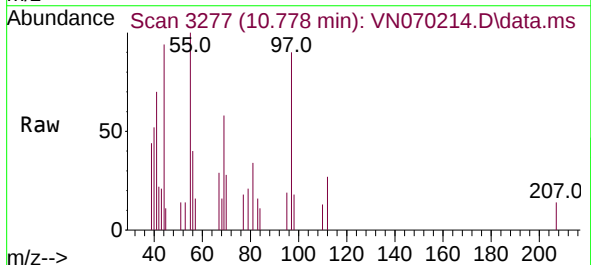


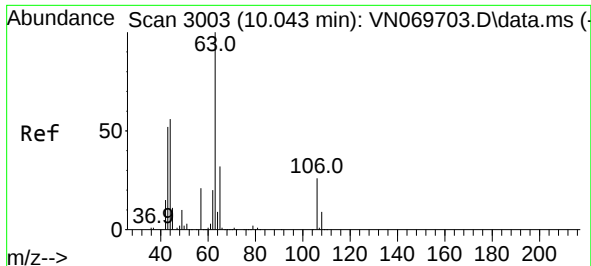
Tgt Ion	Ratio	Lower	Upper
97	100		
83	12.6	67.8	101.6#
85	18.9	45.4	68.2#
99	0.0	49.4	74.0#



#56
Ethyl methacrylate
Concen: 2.337 ug/l
RT: 10.778 min Scan# 3277
Delta R.T. 0.016 min
Lab File: VN070214.D
Acq: 18 Dec 2021 15:36

Tgt Ion	Ratio	Lower	Upper
69	100		
41	39.8	51.4	77.0#
39	22.7	34.6	52.0#

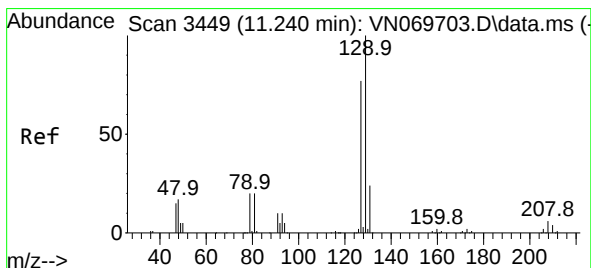
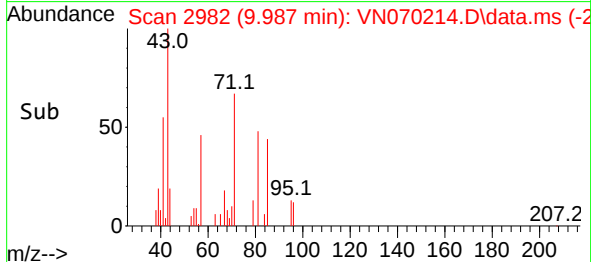
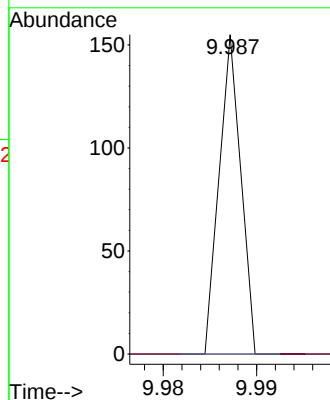
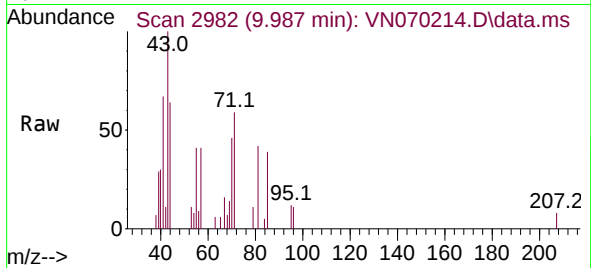




#58
 2-Chloroethyl Vinyl ether
 Concen: 18.392 ug/l
 RT: 9.987 min Scan# 24
 Delta R.T. -0.056 min
 Lab File: VN070214.D
 Acq: 18 Dec 2021 15:36

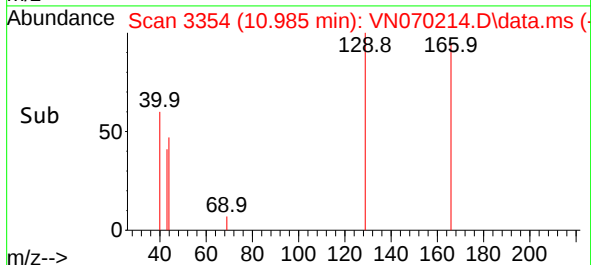
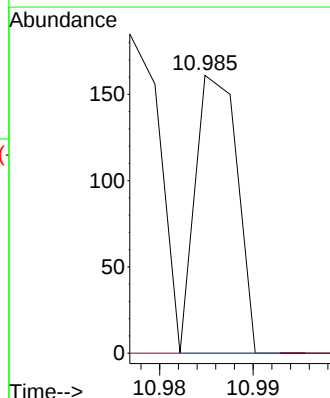
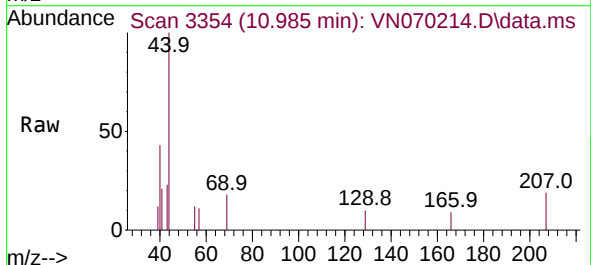
Instrument :
 MSVOA_N
 ClientSampleId :

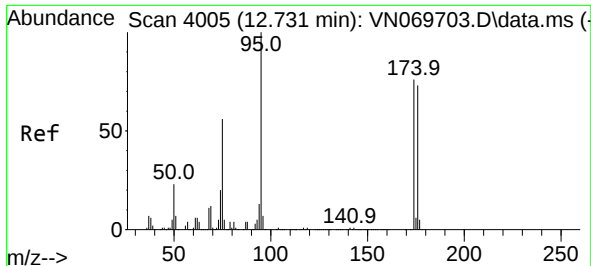
Tgt Ion: 63 Resp: 25
 Ion Ratio Lower Upper
 63 100
 106 0.0 23.9 35.9#



#60
 Dibromochloromethane
 Concen: 2.379 ug/l
 RT: 10.985 min Scan# 3354
 Delta R.T. -0.255 min
 Lab File: VN070214.D
 Acq: 18 Dec 2021 15:36

Tgt Ion: 129 Resp: 50
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.6 116.0#

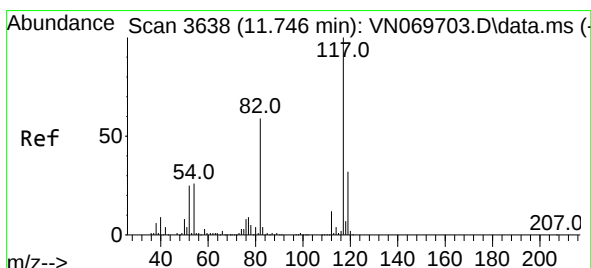
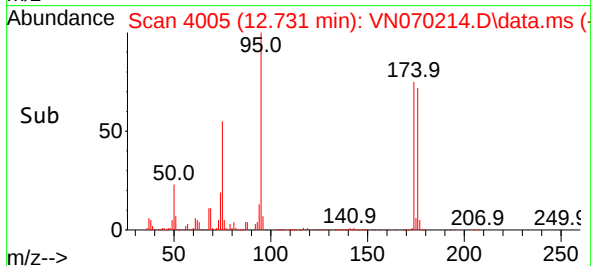
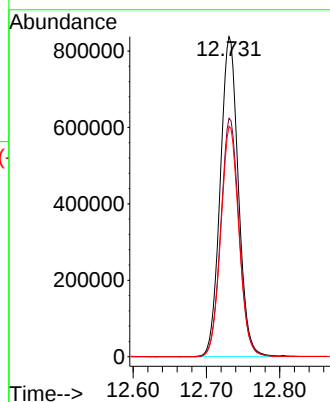
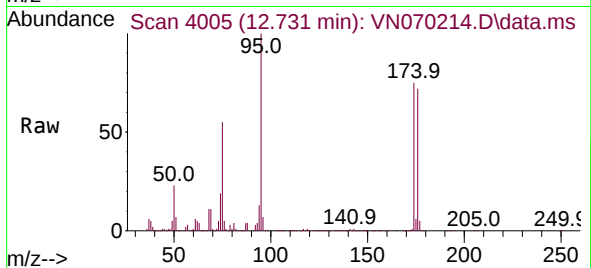




#62
4-Bromofluorobenzene
Concen: 69.246 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN070214.D
Acq: 18 Dec 2021 15:36

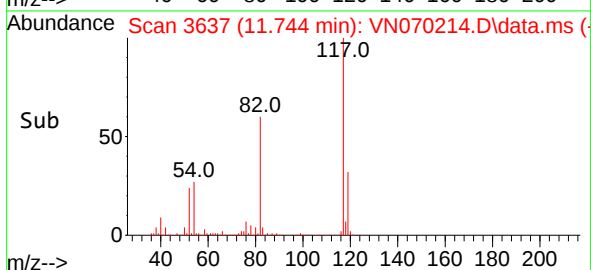
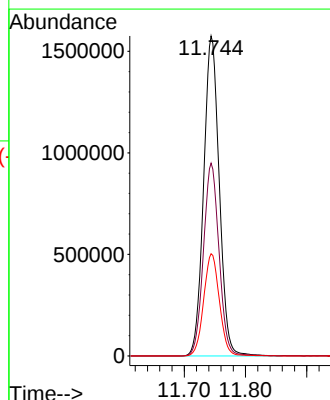
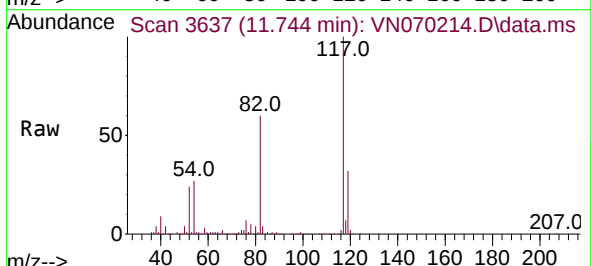
Instrument :
MSVOA_N
ClientSampleId :

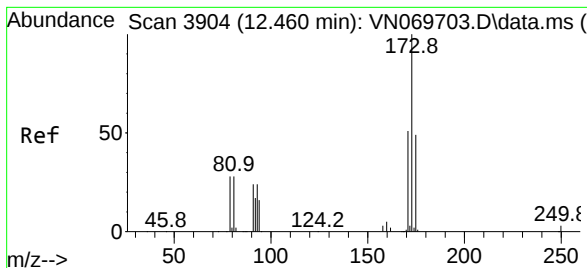
Tgt Ion: 95 Resp: 1434968
Ion Ratio Lower Upper
95 100
174 75.2 0.0 187.2
176 72.4 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 3637
Delta R.T. -0.002 min
Lab File: VN070214.D
Acq: 18 Dec 2021 15:36

Tgt Ion: 117 Resp: 2793118
Ion Ratio Lower Upper
117 100
82 60.2 42.4 63.6
119 31.9 25.4 38.2





#71

Bromoform

Concen: 3.298 ug/l

RT: 12.728 min Scan# 4004

Delta R.T. 0.268 min

Lab File: VN070214.D

Acq: 18 Dec 2021 15:36

Instrument :

MSVOA_N

ClientSampleId :

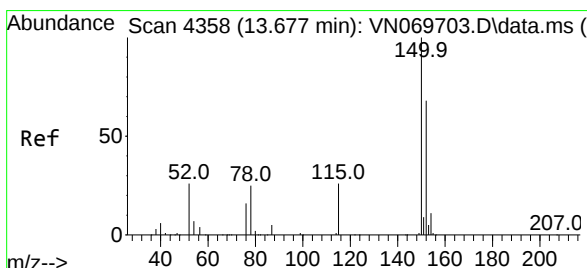
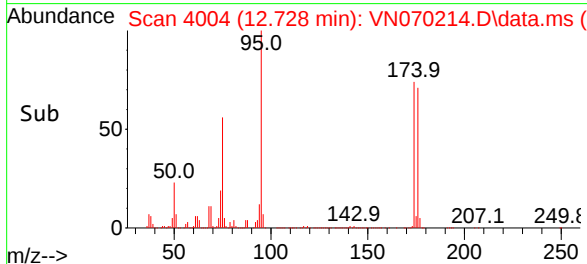
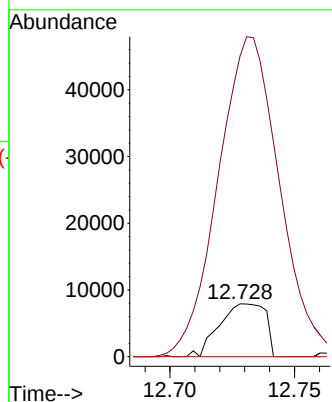
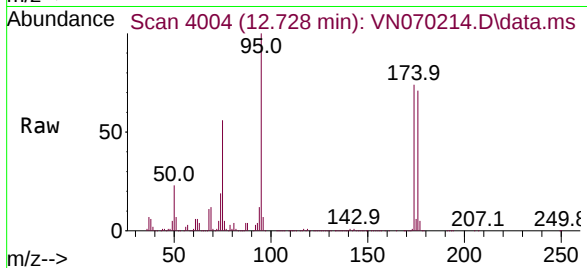
Tgt Ion:173 Resp: 10227

Ion Ratio Lower Upper

173 100

175 757.8 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: VN070214.D

Acq: 18 Dec 2021 15:36

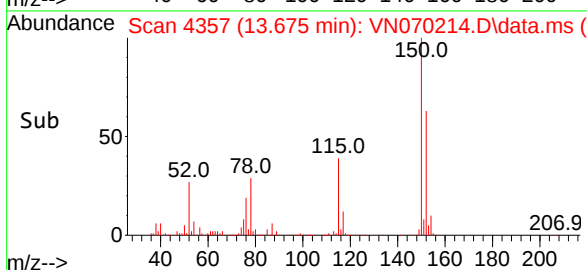
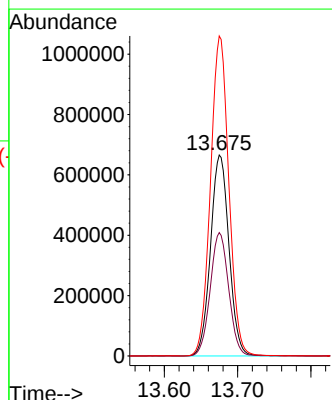
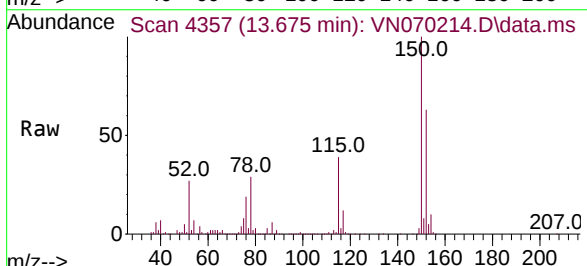
Tgt Ion:152 Resp: 1166648

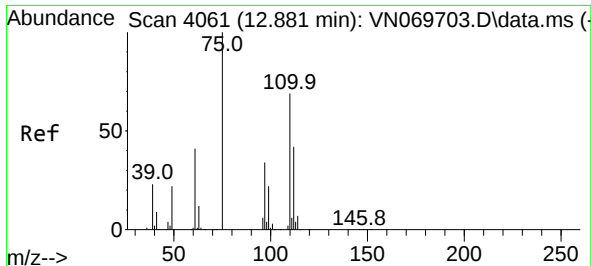
Ion Ratio Lower Upper

152 100

115 61.3 27.5 82.5

150 157.9 0.0 344.4

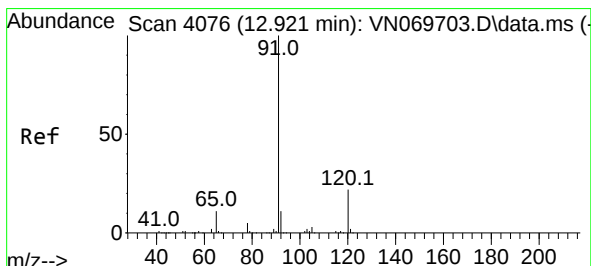
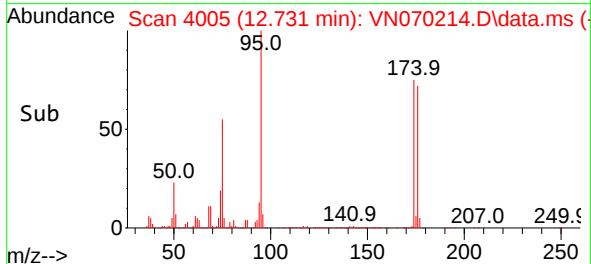
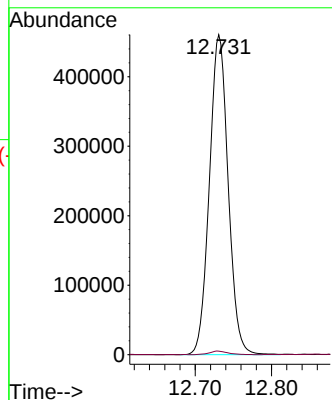
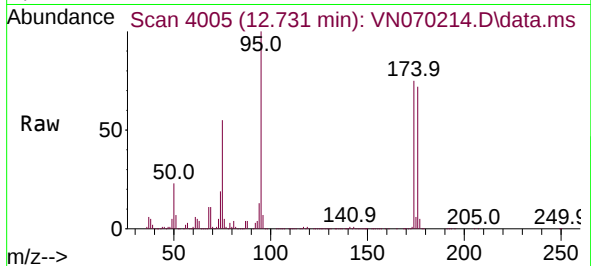




#76
1,2,3-Trichloropropane
Concen: 23.487 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN070214.D
Acq: 18 Dec 2021 15:36

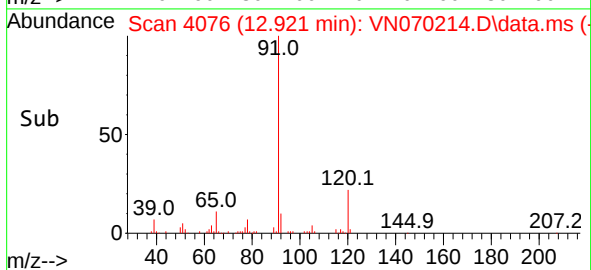
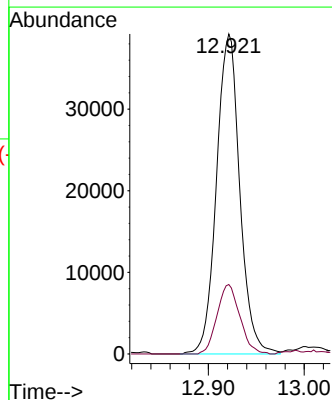
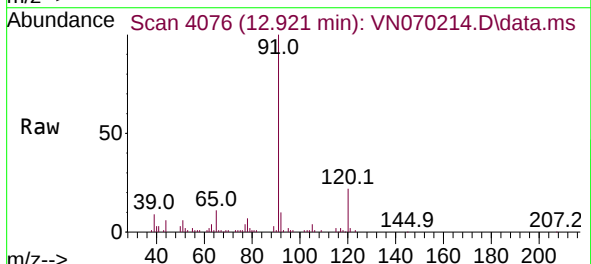
Instrument :
MSVOA_N
ClientSampleId :

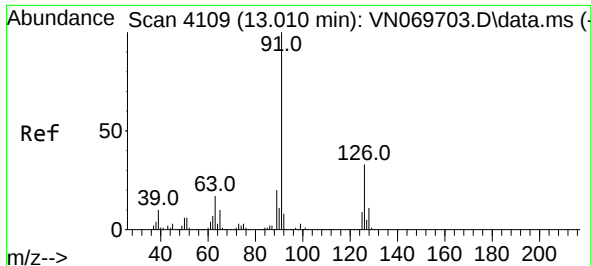
Tgt Ion: 75 Resp: 785804
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#



#78
n-propylbenzene
Concen: 0.572 ug/l
RT: 12.921 min Scan# 4076
Delta R.T. 0.000 min
Lab File: VN070214.D
Acq: 18 Dec 2021 15:36

Tgt Ion: 91 Resp: 66041
Ion Ratio Lower Upper
91 100
120 21.2 11.9 35.9

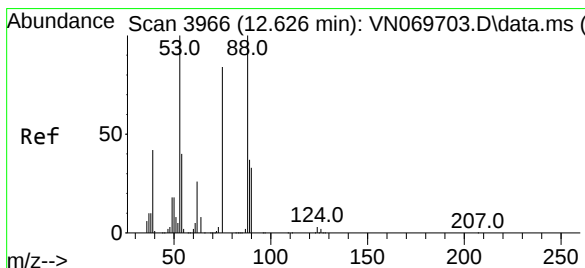
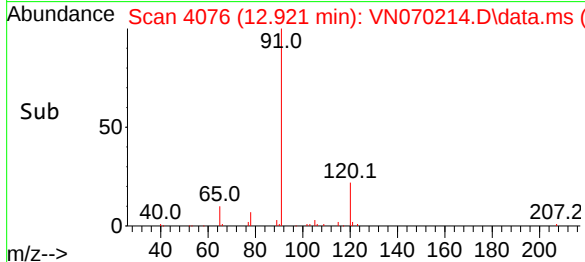
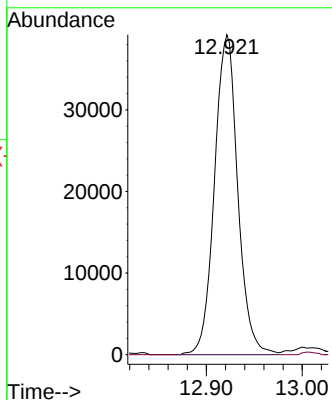
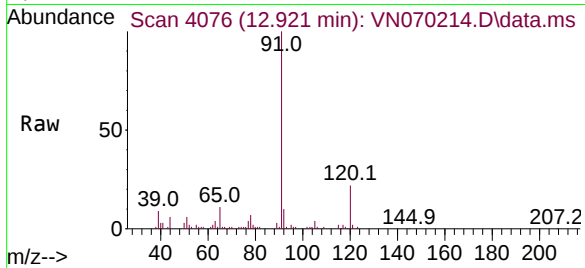




#79
2-Chlorotoluene
Concen: 0.905 ug/l
RT: 12.921 min Scan# 4005
Delta R.T. -0.088 min
Lab File: VN070214.D
Acq: 18 Dec 2021 15:36

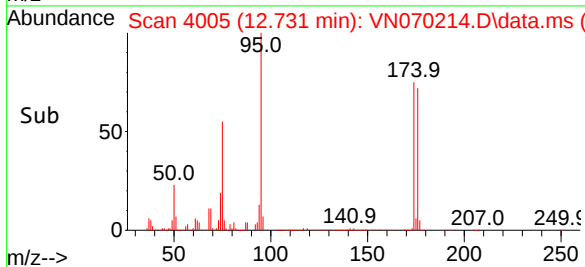
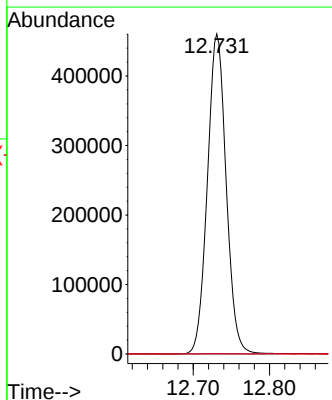
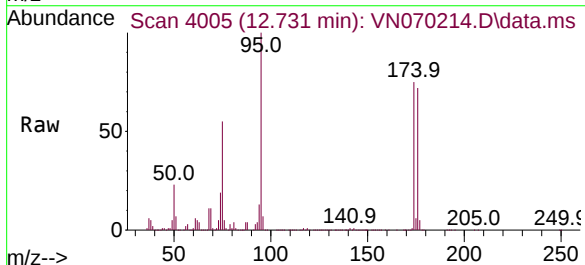
Instrument :
MSVOA_N
ClientSampleId :

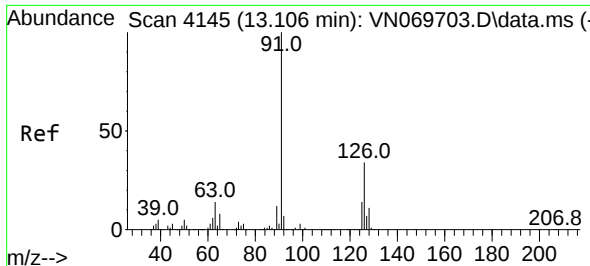
Tgt Ion: 91 Resp: 66041
Ion Ratio Lower Upper
91 100
126 0.0 18.3 54.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 74.688 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN070214.D
Acq: 18 Dec 2021 15:36

Tgt Ion: 75 Resp: 785804
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#

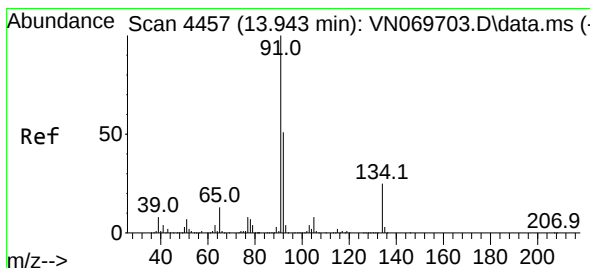
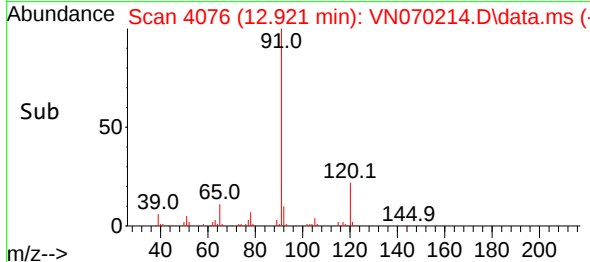
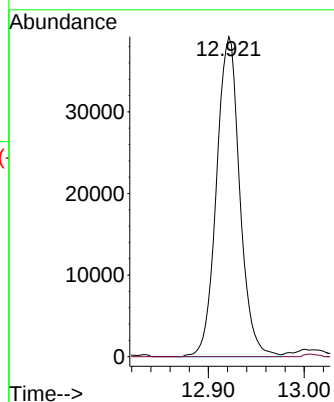
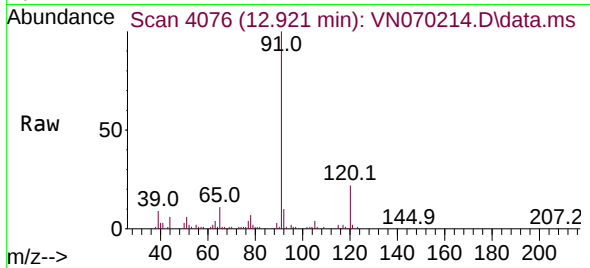




#82
4-Chlorotoluene
Concen: 0.962 ug/l
RT: 12.921 min Scan# 4076
Delta R.T. -0.185 min
Lab File: VN070214.D
Acq: 18 Dec 2021 15:36

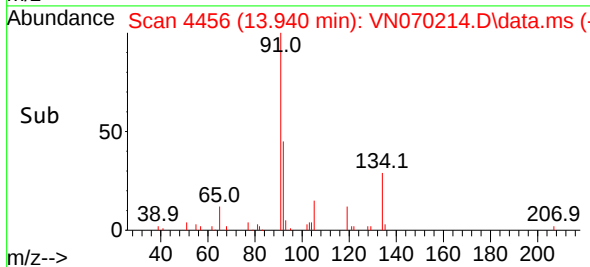
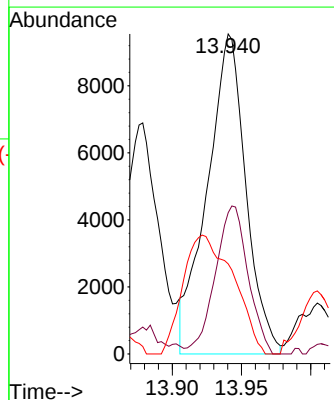
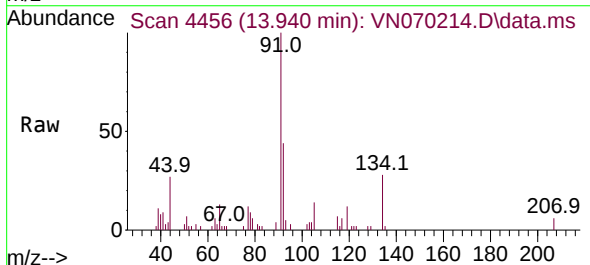
Instrument :
MSVOA_N
ClientSampleId :

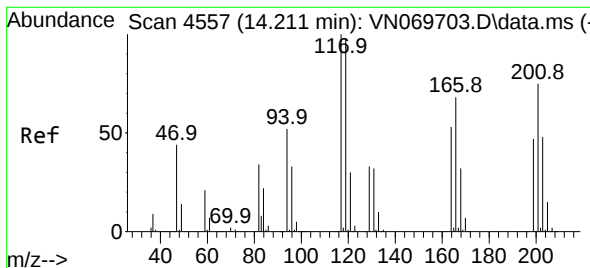
Tgt Ion: 91 Resp: 66041
Ion Ratio Lower Upper
91 100
126 0.0 18.2 54.6#



#89
n-Butylbenzene
Concen: 0.291 ug/l
RT: 13.940 min Scan# 4456
Delta R.T. -0.003 min
Lab File: VN070214.D
Acq: 18 Dec 2021 15:36

Tgt Ion: 91 Resp: 18510
Ion Ratio Lower Upper
91 100
92 39.4 25.4 76.0
134 0.0 13.6 40.8#





#90

Hexachloroethane

Concen: 1.012 ug/l

RT: 14.217 min Scan# 4557

Delta R.T. 0.005 min

Lab File: VN070214.D

Acq: 18 Dec 2021 15:36

Instrument :

MSVOA_N

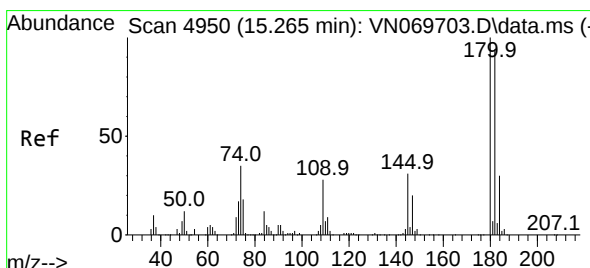
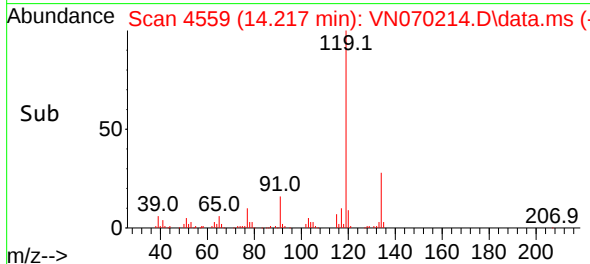
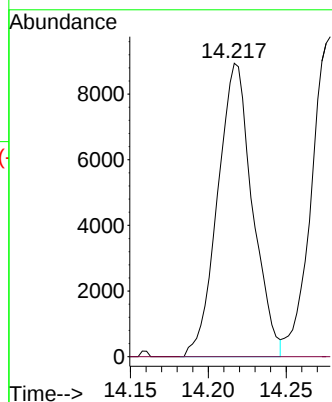
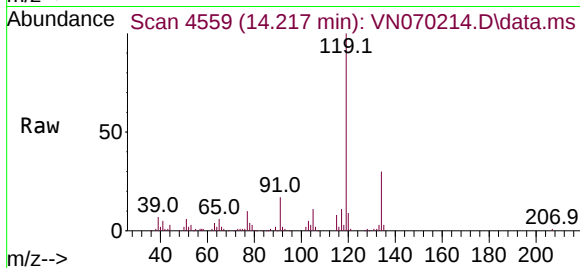
ClientSampleId :

Tgt Ion:117 Resp: 13933

Ion Ratio Lower Upper

117 100

201 0.0 43.9 131.6#



#93

1,2,4-Trichlorobenzene

Concen: 2.987 ug/l

RT: 15.265 min Scan# 4950

Delta R.T. 0.000 min

Lab File: VN070214.D

Acq: 18 Dec 2021 15:36

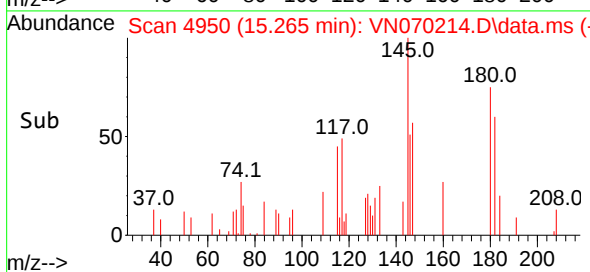
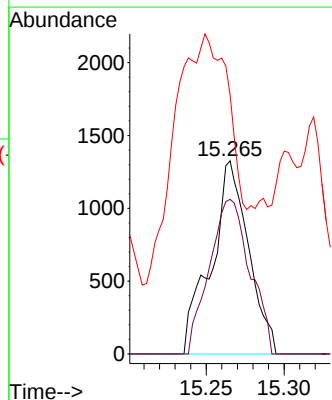
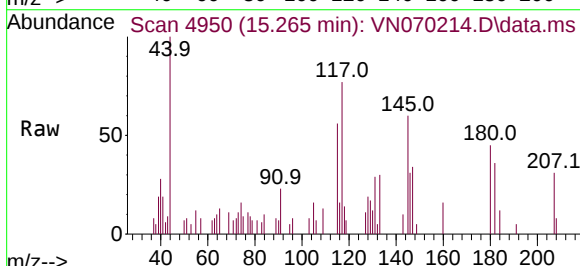
Tgt Ion:180 Resp: 2212

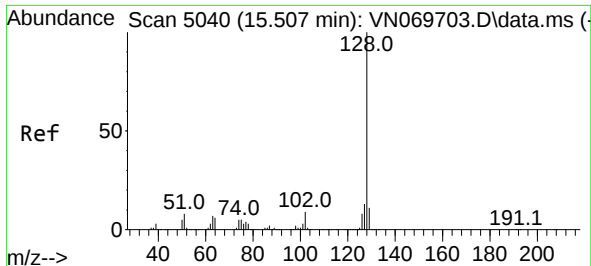
Ion Ratio Lower Upper

180 100

182 86.8 48.3 144.9

145 194.3 14.5 43.5#

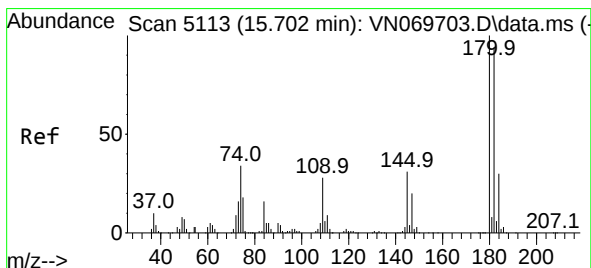
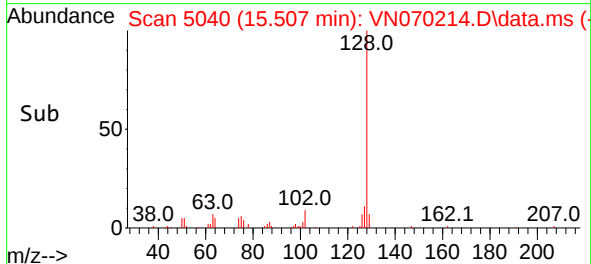
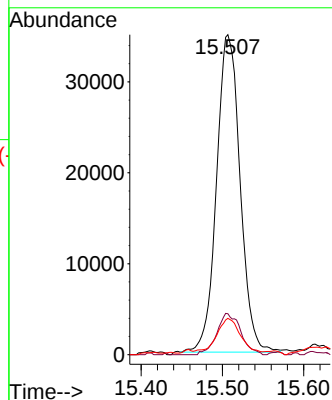
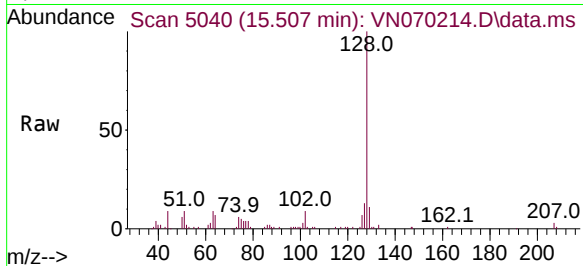




#95
Naphthalene
Concen: 5.122 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.000 min
Lab File: VN070214.D
Acq: 18 Dec 2021 15:36

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.3	8.7	13.1



#96
1,2,3-Trichlorobenzene
Concen: 2.544 ug/l
RT: 15.702 min Scan# 5113
Delta R.T. 0.000 min
Lab File: VN070214.D
Acq: 18 Dec 2021 15:36

Tgt Ion	Ratio	Lower	Upper
180	100		
182	101.5	47.4	142.2
145	0.0	15.0	45.1#

