

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121721\
 Data File : VN070181.D
 Acq On : 17 Dec 2021 23:25
 Operator : JC/MD
 Sample : VN1217WBL03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

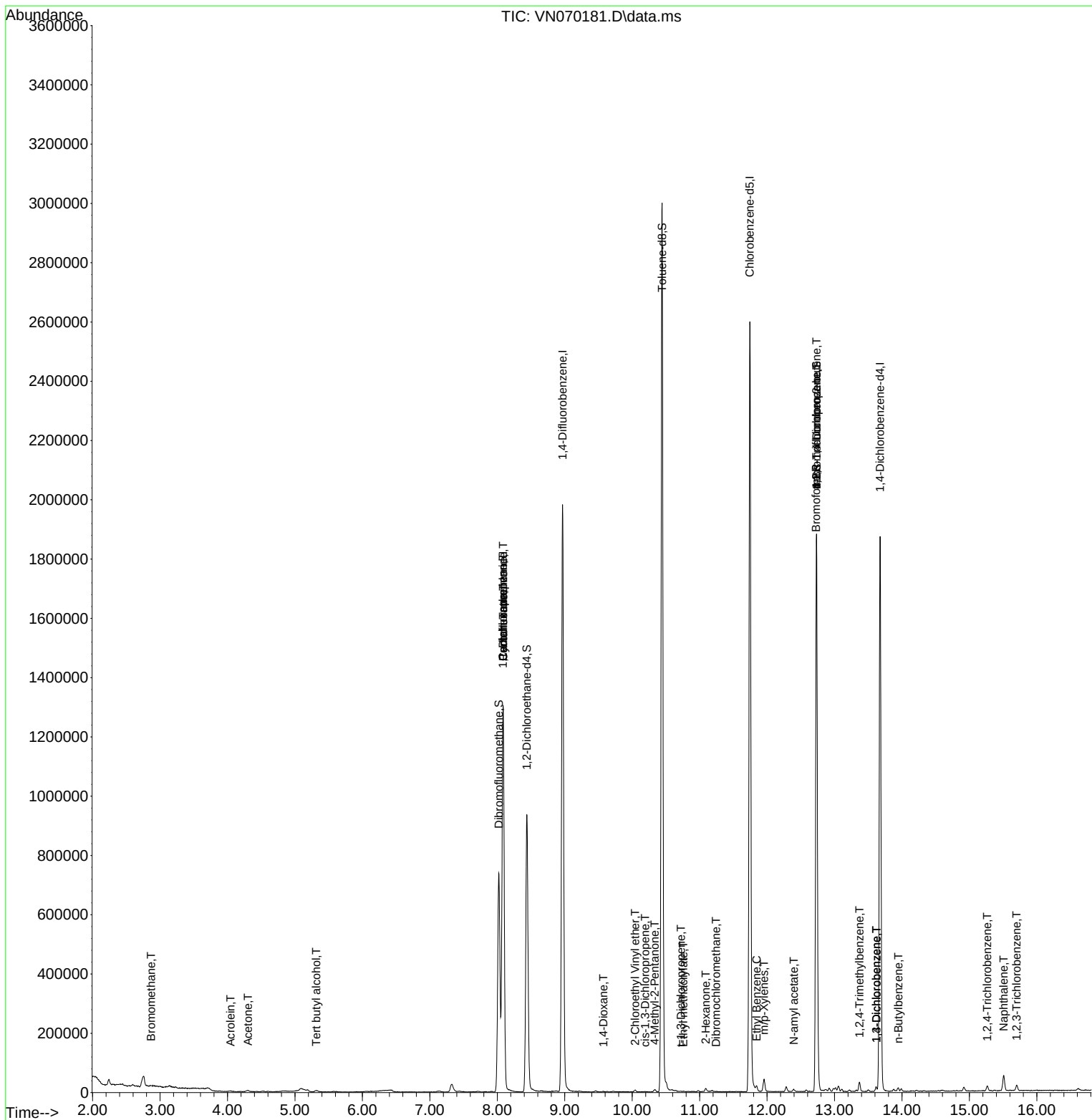
Quant Time: Dec 18 06:01:16 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 03 08:46:47 2021
 Response via : Initial Calibration

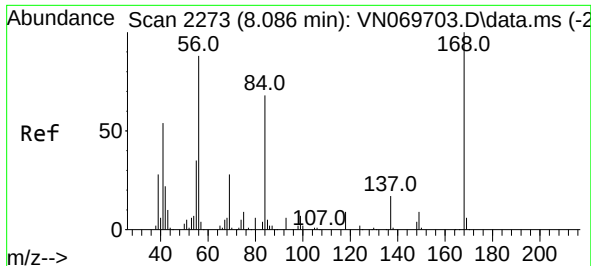
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.086	168	985480	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	1676175	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	1477382	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	502221	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	812009	53.366	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 106.740%			
35) Dibromofluoromethane	8.021	113	534584	50.917	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 101.840%			
50) Toluene-d8	10.443	98	2039769	48.384	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 96.760%			
62) 4-Bromofluorobenzene	12.733	95	666105	43.614	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 87.220%			
Target Compounds						Qvalue
5) Bromomethane	2.866	94	1777	0.247	ug/l	96
11) Tert butyl alcohol	5.315	59	2875	1.000	ug/l #	71
13) Acrolein	4.044	56	1222	0.499	ug/l #	14
16) Acetone	4.304	43	7330	0.801	ug/l	91
31) Cyclohexane	8.086	56	25854	1.221	ug/l #	45
36) 1,1-Dichloropropene	8.083	75	84056	5.268	ug/l #	49
38) Carbon Tetrachloride	8.086	117	100135	6.399	ug/l #	16
49) 1,4-Dioxane	9.574	88	174	0.591	ug/l #	26
51) 4-Methyl-2-Pentanone	10.336	43	5530	0.243	ug/l	99
53) t-1,3-Dichloropropene	10.725	75	770	2.831	ug/l	92
54) cis-1,3-Dichloropropene	10.191	75	406	2.018	ug/l #	67
56) Ethyl methacrylate	10.757	69	548	2.302	ug/l #	67
58) 2-Chloroethyl Vinyl ether	10.043	63	2697	18.797	ug/l #	76
59) 2-Hexanone	11.089	43	8993	0.521	ug/l	97
60) Dibromochloromethane	11.242	129	155	2.388	ug/l	70
67) Ethyl Benzene	11.846	91	12241	0.225	ug/l	99
68) m/p-Xylenes	11.956	106	12764	0.644	ug/l	86
71) Bromoform	12.728	173	1545	2.893	ug/l #	1
74) N-amyl acetate	12.395	43	5015	0.254	ug/l #	90
76) 1,2,3-Trichloropropane	12.733	75	368745	25.603	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.733	75	368745	81.050	ug/l #	5
84) 1,2,4-Trimethylbenzene	13.369	105	19684	0.575	ug/l	94
87) 1,3-Dichlorobenzene	13.621	146	3709	0.215	ug/l	93
88) 1,4-Dichlorobenzene	13.621	146	3709	0.219	ug/l	93
89) n-Butylbenzene	13.946	91	7719	0.282	ug/l	96
93) 1,2,4-Trichlorobenzene	15.265	180	5781	3.539	ug/l	97
95) Naphthalene	15.507	128	49640	5.846	ug/l	99
96) 1,2,3-Trichlorobenzene	15.700	180	6785	3.239	ug/l	92

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

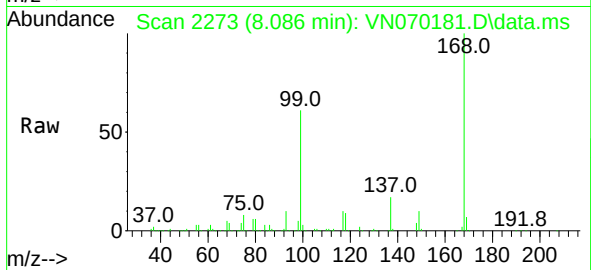
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 03 08:46:47 2021
Response via : Initial Calibration



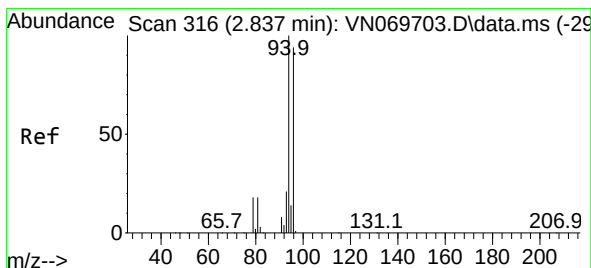
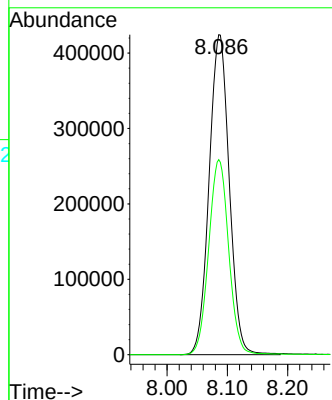
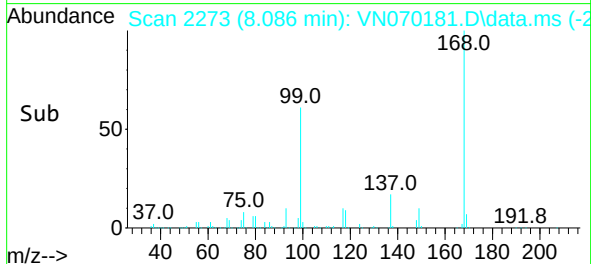


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

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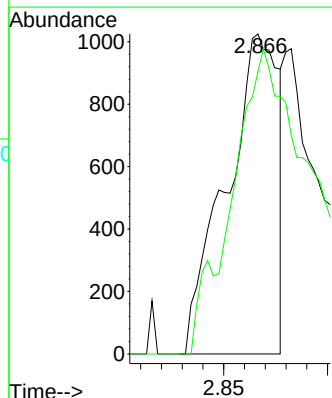
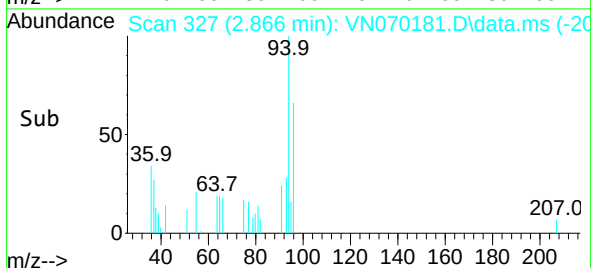
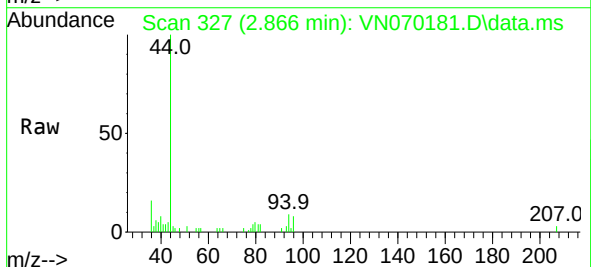


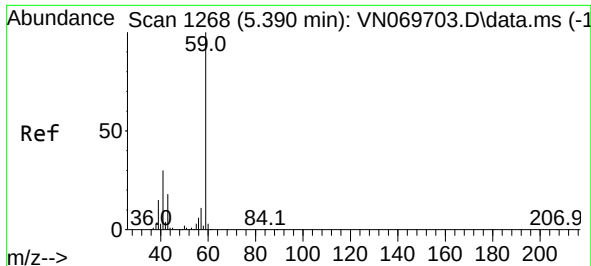
Tgt Ion:168 Resp: 985480
Ion Ratio Lower Upper
168 100
99 61.0 41.3 61.9



#5
Bromomethane
Concen: 0.247 ug/l
RT: 2.866 min Scan# 327
Delta R.T. 0.030 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

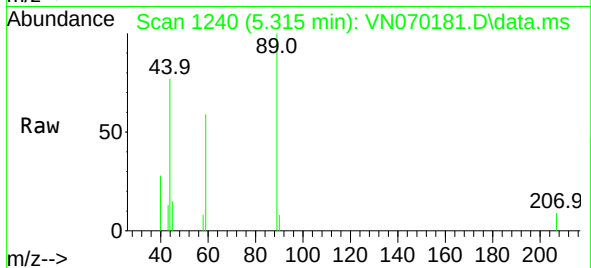
Tgt Ion: 94 Resp: 1777
Ion Ratio Lower Upper
94 100
96 88.2 73.8 110.8



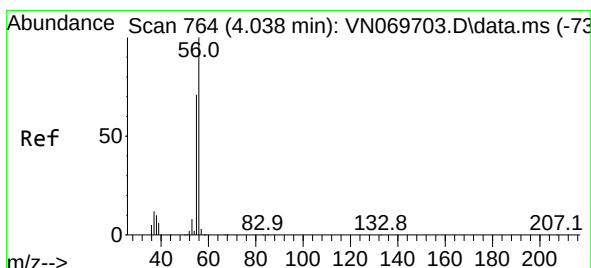
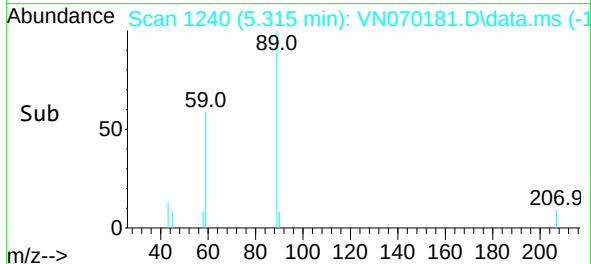
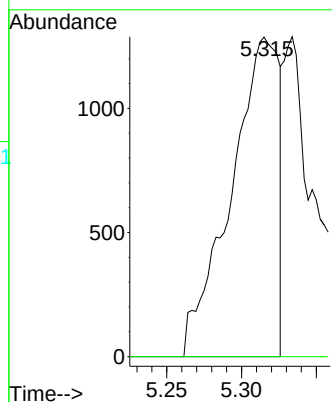


#11
Tert butyl alcohol
Concen: 1.000 ug/l
RT: 5.315 min Scan# 11
Delta R.T. -0.075 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

Instrument :
MSVOA_N
ClientSampleId :

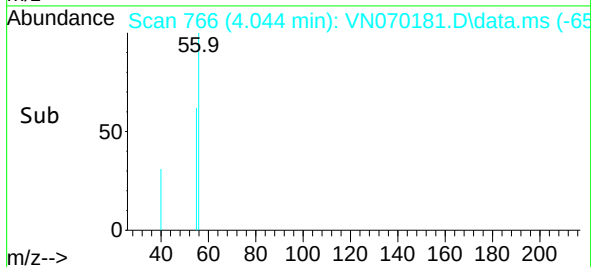
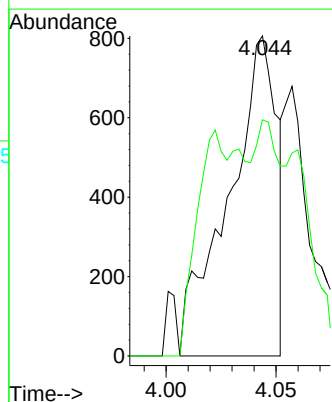
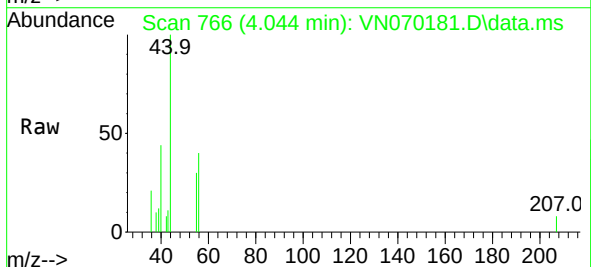


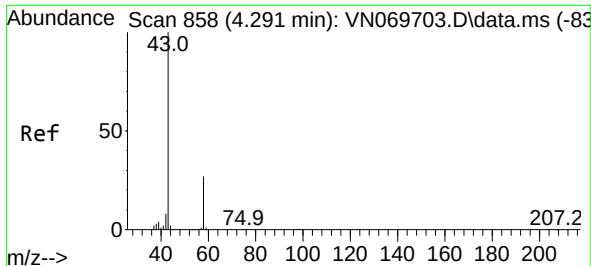
Tgt Ion: 59 Resp: 2875
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#13
Acrolein
Concen: 0.499 ug/l
RT: 4.044 min Scan# 766
Delta R.T. 0.005 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

Tgt Ion: 56 Resp: 1222
Ion Ratio Lower Upper
56 100
55 0.0 56.6 85.0#

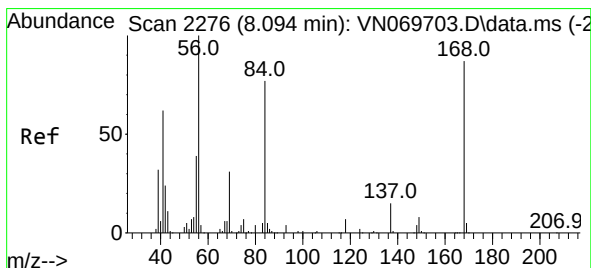
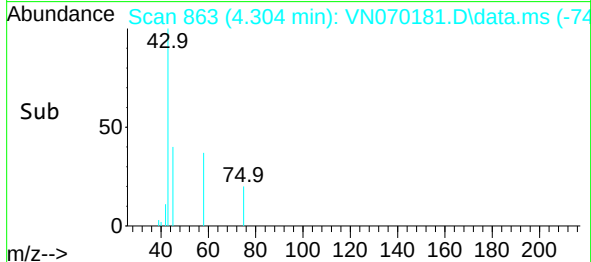
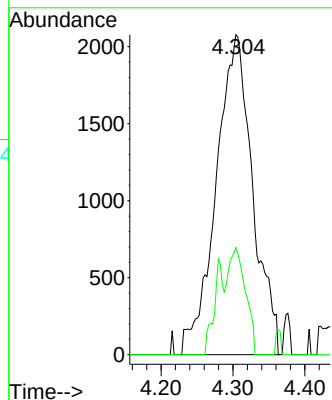
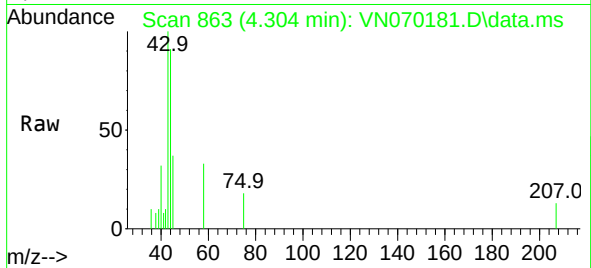




#16
Acetone
Concen: 0.801 ug/l
RT: 4.304 min Scan# 80
Delta R.T. 0.013 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

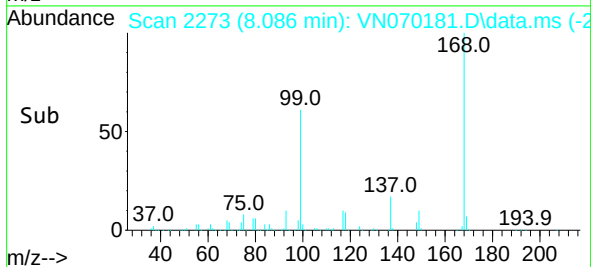
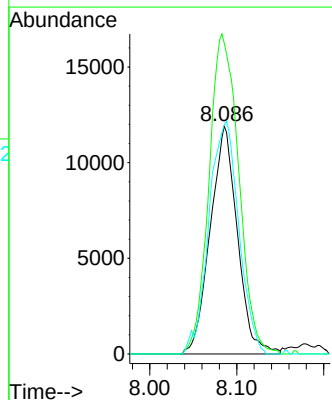
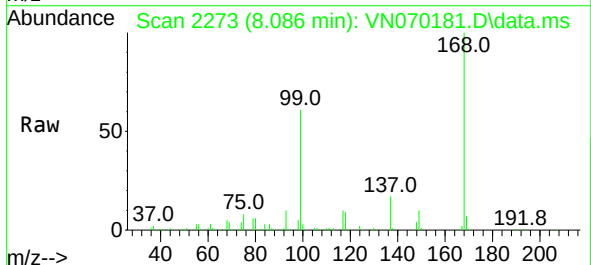
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MSVOA_N
ClientSampleId :

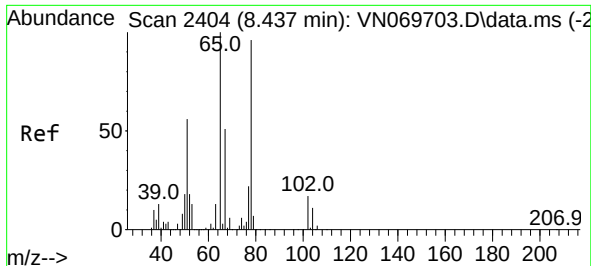
Tgt Ion: 43 Resp: 7330
Ion Ratio Lower Upper
43 100
58 33.5 23.1 34.7



#31
Cyclohexane
Concen: 1.221 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.008 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

Tgt Ion: 56 Resp: 25854
Ion Ratio Lower Upper
56 100
69 136.4 27.1 40.7#
84 100.4 73.4 110.0





#33

1,2-Dichloroethane-d4

Concen: 53.366 ug/l

RT: 8.437 min Scan# 2404

Delta R.T. 0.000 min

Lab File: VN070181.D

Acq: 17 Dec 2021 23:25

Instrument :

MSVOA_N

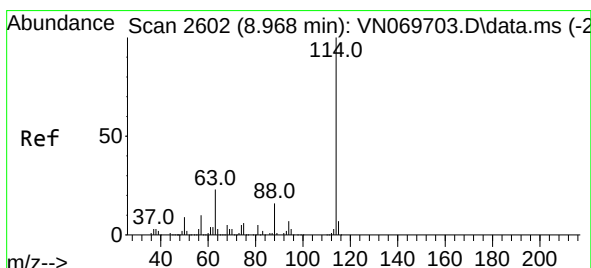
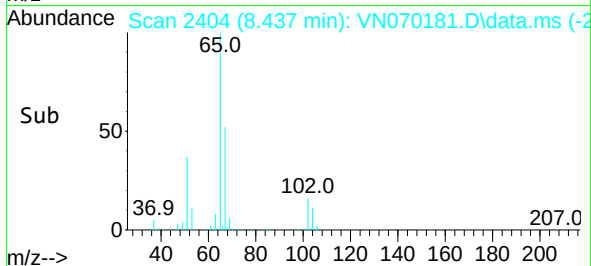
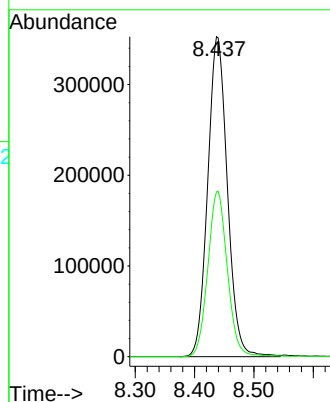
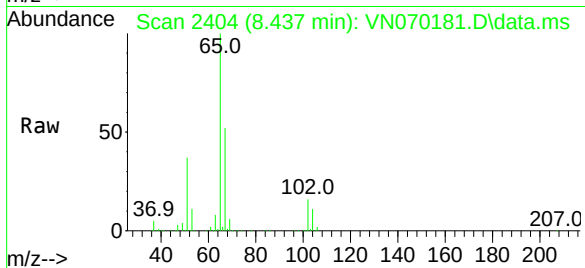
ClientSampleId :

Tgt Ion: 65 Resp: 812009

Ion Ratio Lower Upper

65 100

67 51.1 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: VN070181.D

Acq: 17 Dec 2021 23:25

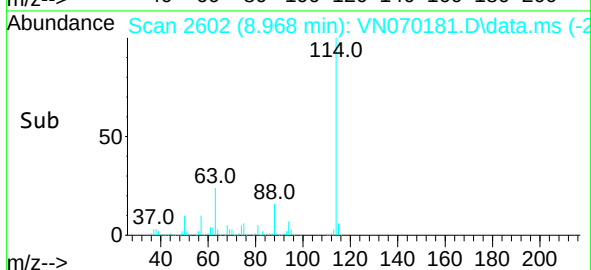
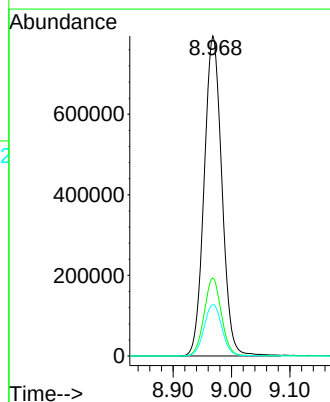
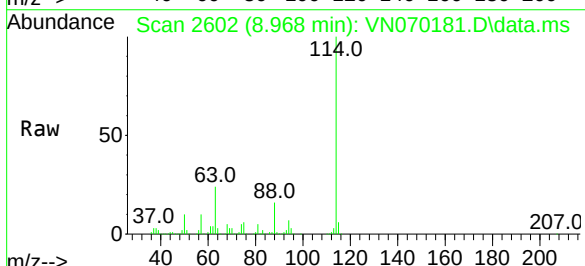
Tgt Ion: 114 Resp: 1676175

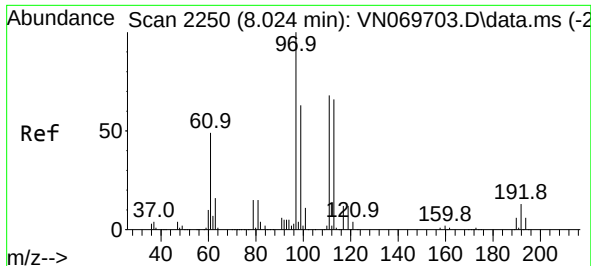
Ion Ratio Lower Upper

114 100

63 24.4 0.0 37.8

88 16.1 0.0 27.4

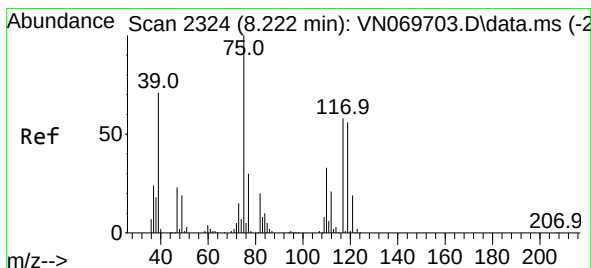
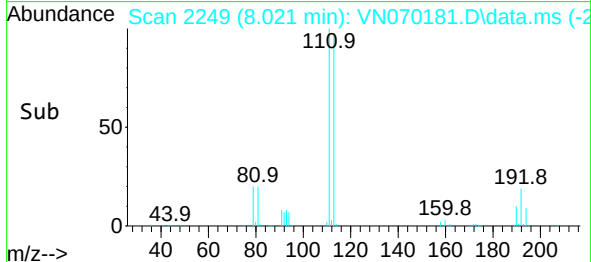
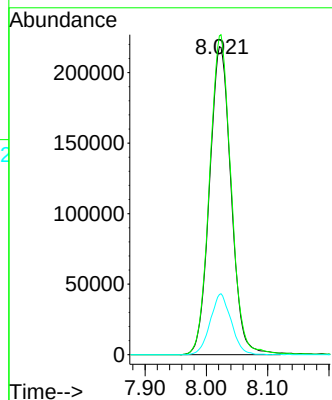
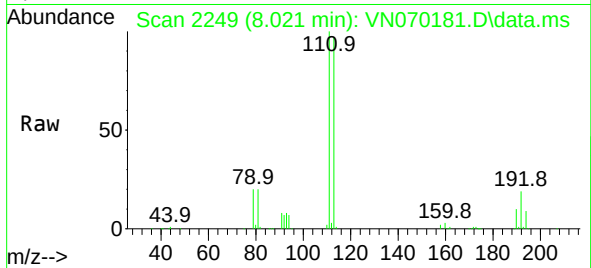




#35
Dibromofluoromethane
Concen: 50.917 ug/l
RT: 8.021 min Scan# 21
Delta R.T. -0.003 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

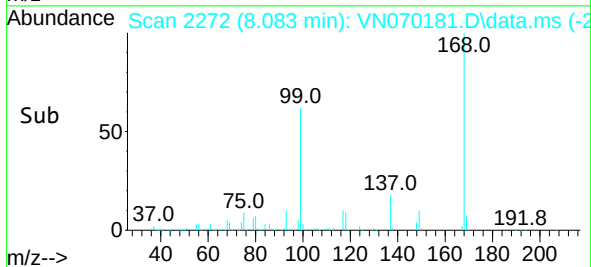
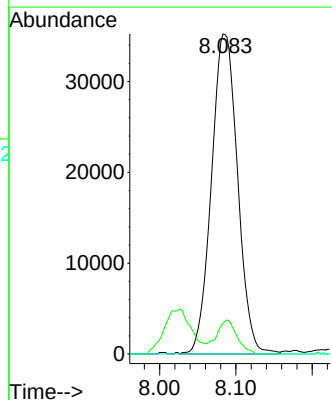
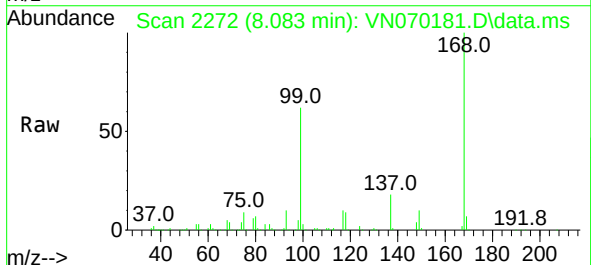
Instrument :
MSVOA_N
ClientSampleId :

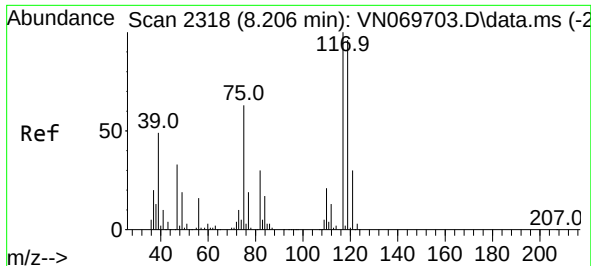
Tgt Ion:113 Resp: 534584
Ion Ratio Lower Upper
113 100
111 103.4 82.2 123.2
192 19.2 16.9 25.3



#36
1,1-Dichloropropene
Concen: 5.268 ug/l
RT: 8.083 min Scan# 2272
Delta R.T. -0.139 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

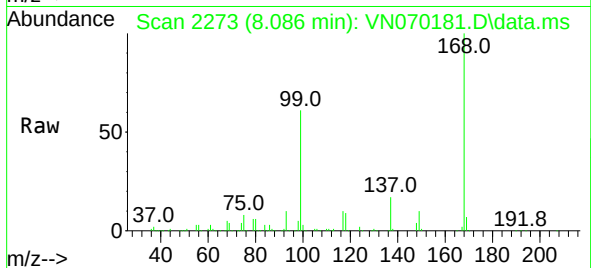
Tgt Ion: 75 Resp: 84056
Ion Ratio Lower Upper
75 100
110 8.4 18.4 55.2#
77 0.0 24.4 36.6#



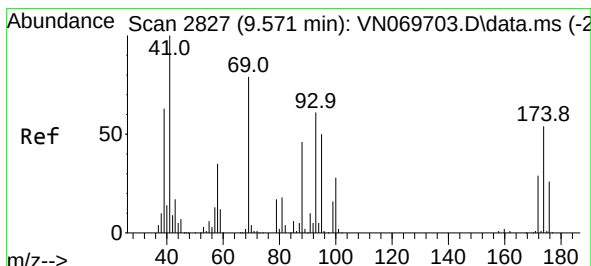
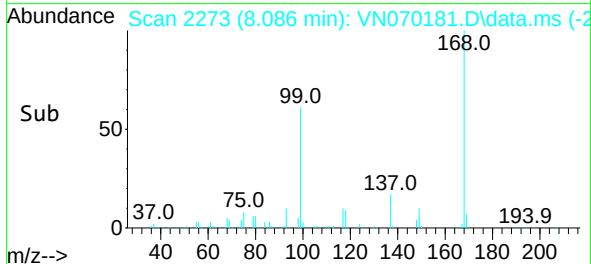
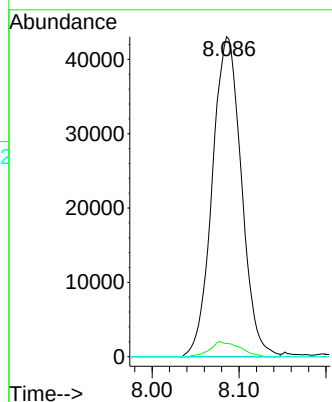


#38
Carbon Tetrachloride
Concen: 6.399 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.121 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

Instrument :
MSVOA_N
ClientSampleId :

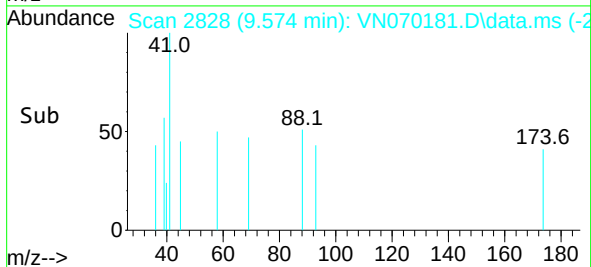
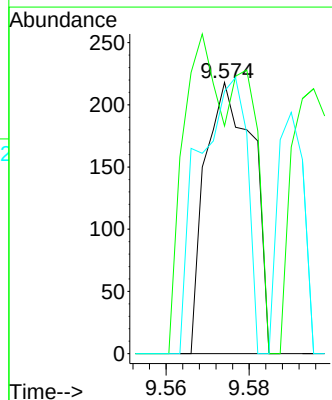
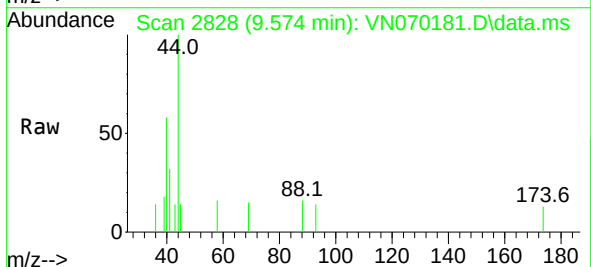


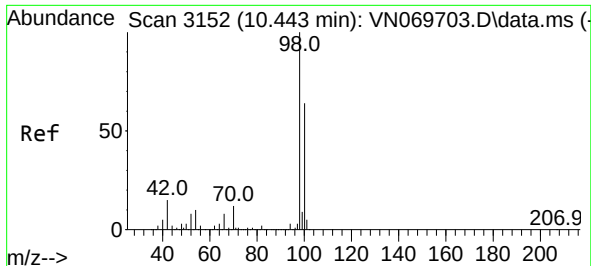
Tgt Ion:117 Resp: 100135
Ion Ratio Lower Upper
117 100
119 4.1 76.1 114.1#
121 0.0 24.2 36.2#



#49
1,4-Dioxane
Concen: 0.591 ug/l
RT: 9.574 min Scan# 2828
Delta R.T. 0.003 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

Tgt Ion: 88 Resp: 174
Ion Ratio Lower Upper
88 100
43 96.6 23.4 35.2#
58 102.3 50.6 75.8#

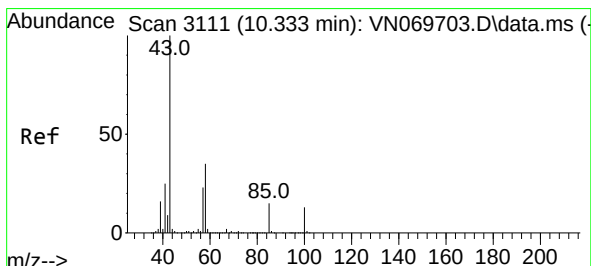
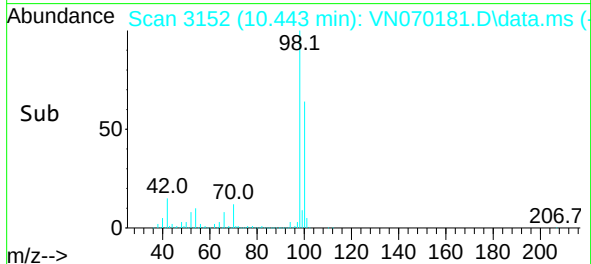
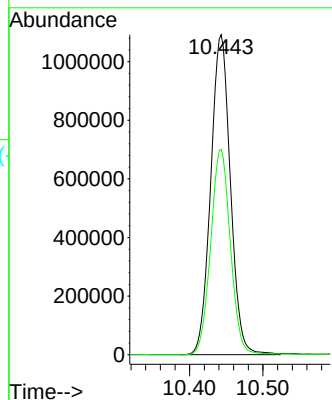
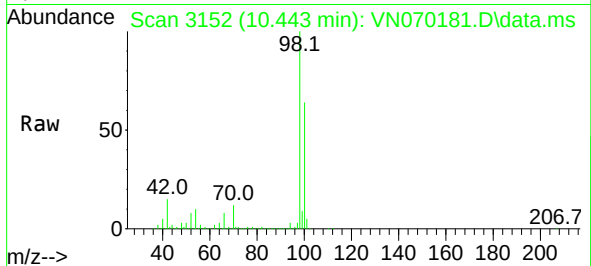




#50
Toluene-d8
Concen: 48.384 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

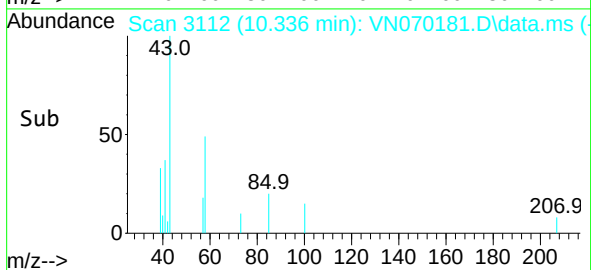
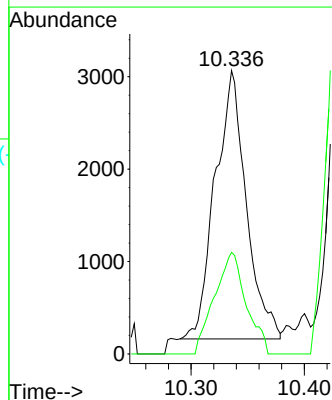
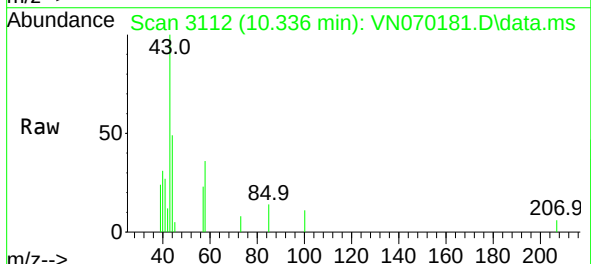
Instrument :
MSVOA_N
ClientSampleId :

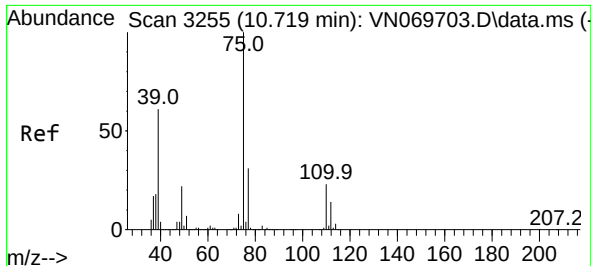
Tgt Ion: 98 Resp: 2039769
Ion Ratio Lower Upper
98 100
100 64.1 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 0.243 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.003 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

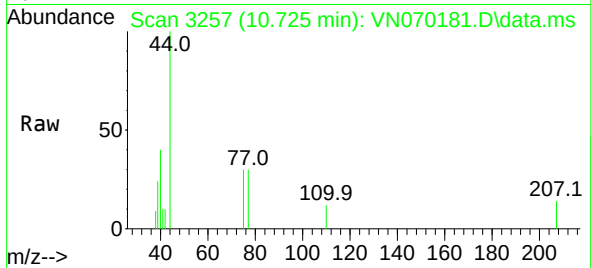
Tgt Ion: 43 Resp: 5530
Ion Ratio Lower Upper
43 100
58 38.5 30.4 45.6



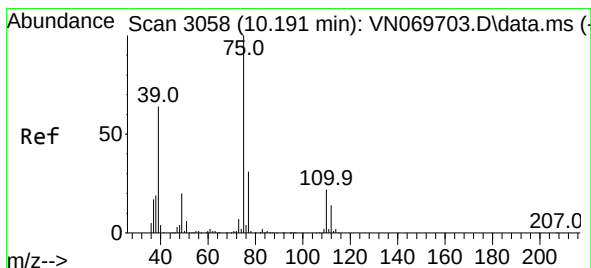
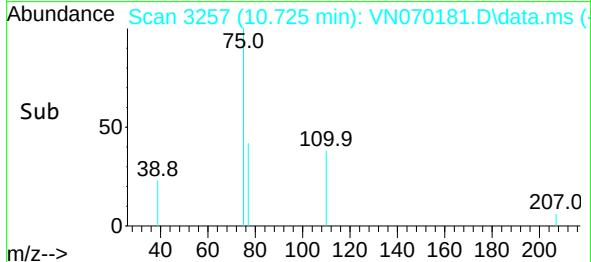
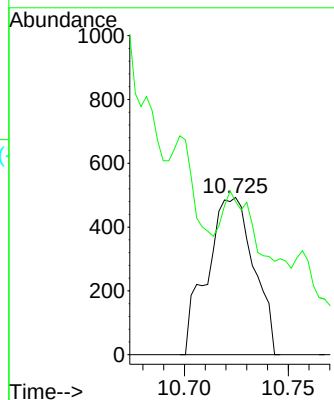


#53
 t-1,3-Dichloropropene
 Concen: 2.831 ug/l
 RT: 10.725 min Scan# 31
 Delta R.T. 0.006 min
 Lab File: VN070181.D
 Acq: 17 Dec 2021 23:25

Instrument :
 MSVOA_N
 ClientSampleId :

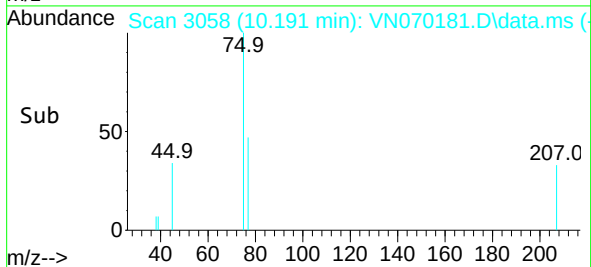
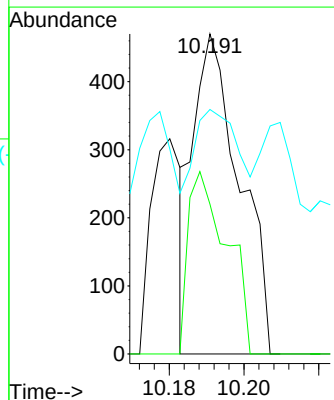
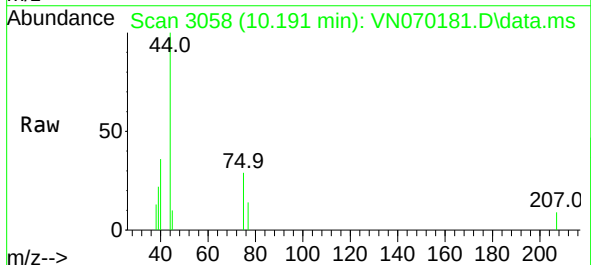


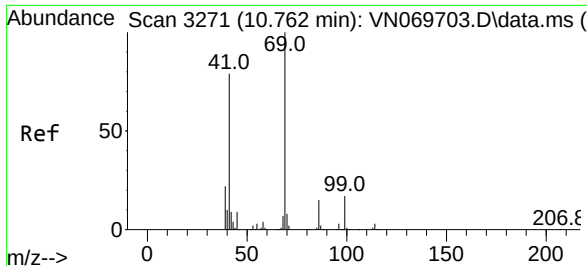
Tgt Ion: 75 Resp: 770
 Ion Ratio Lower Upper
 75 100
 77 36.3 25.6 38.4



#54
 cis-1,3-Dichloropropene
 Concen: 2.018 ug/l
 RT: 10.191 min Scan# 3058
 Delta R.T. -0.000 min
 Lab File: VN070181.D
 Acq: 17 Dec 2021 23:25

Tgt Ion: 75 Resp: 406
 Ion Ratio Lower Upper
 75 100
 77 46.8 26.4 39.6#
 39 26.2 42.5 63.7#

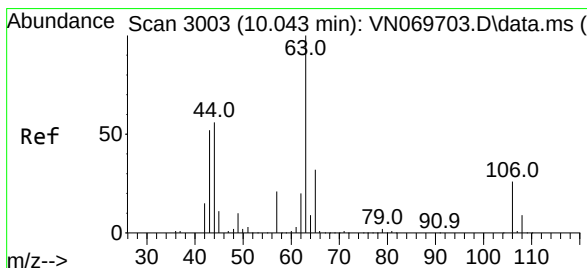
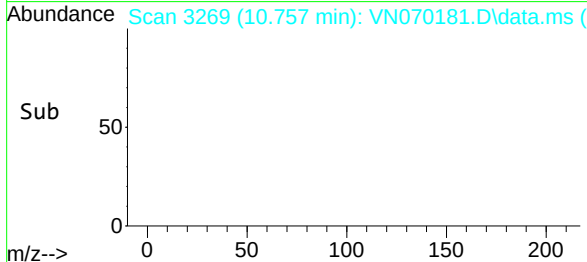
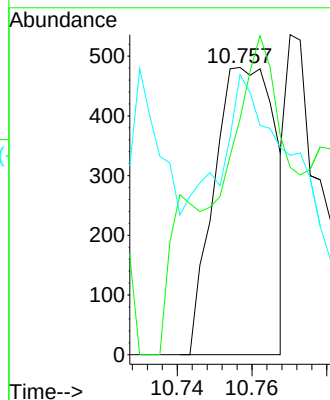
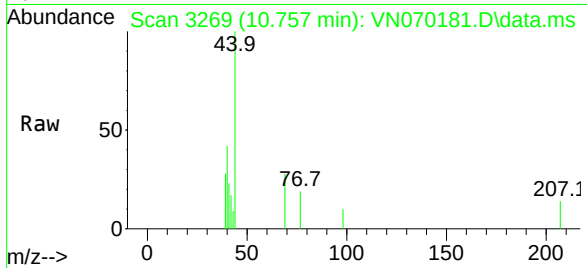




#56
Ethyl methacrylate
Concen: 2.302 ug/l
RT: 10.757 min Scan# 31
Delta R.T. -0.005 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

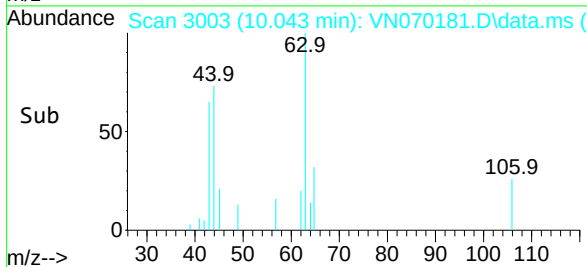
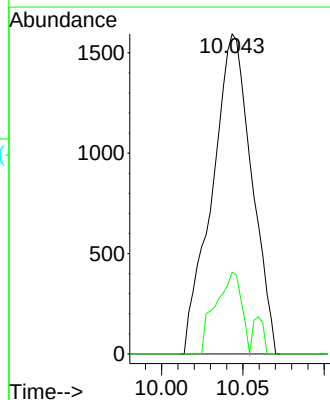
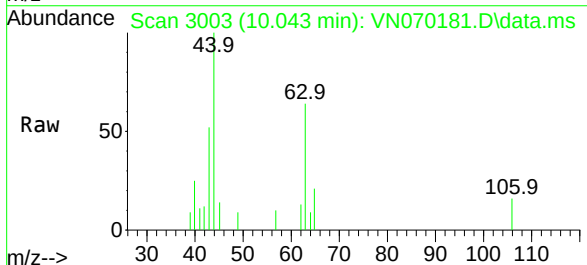
Instrument :
MSVOA_N
ClientSampleId :

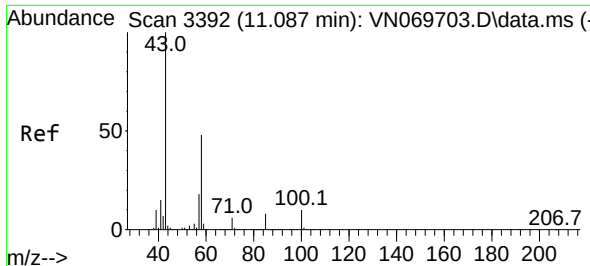
Tgt Ion: 69 Resp: 548
Ion Ratio Lower Upper
69 100
41 42.5 51.4 77.0#
39 69.9 34.6 52.0#



#58
2-Chloroethyl Vinyl ether
Concen: 18.797 ug/l
RT: 10.043 min Scan# 3003
Delta R.T. 0.000 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

Tgt Ion: 63 Resp: 2697
Ion Ratio Lower Upper
63 100
106 16.7 23.9 35.9#

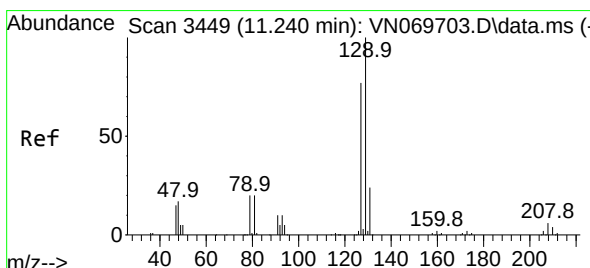
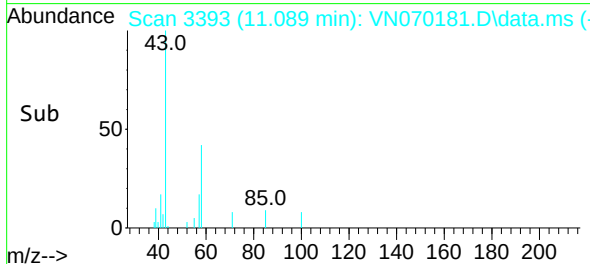
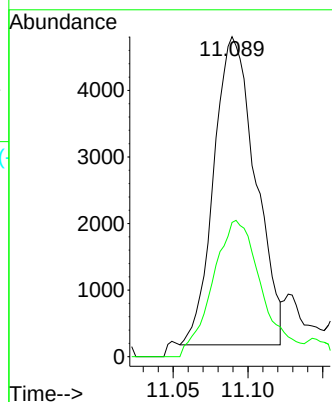
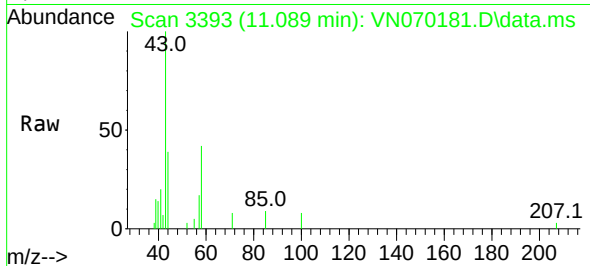




#59
2-Hexanone
Concen: 0.521 ug/l
RT: 11.089 min Scan# 31
Delta R.T. 0.002 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

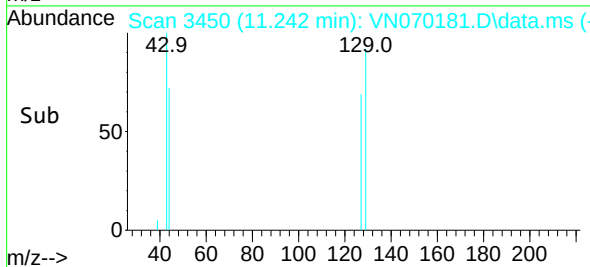
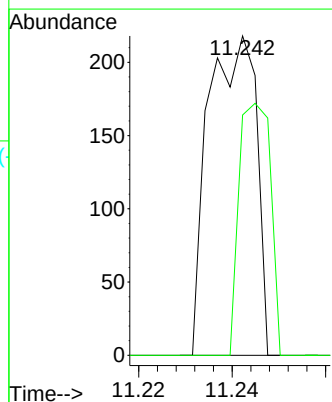
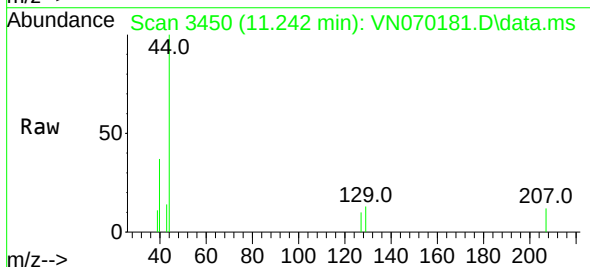
Instrument :
MSVOA_N
ClientSampleId :

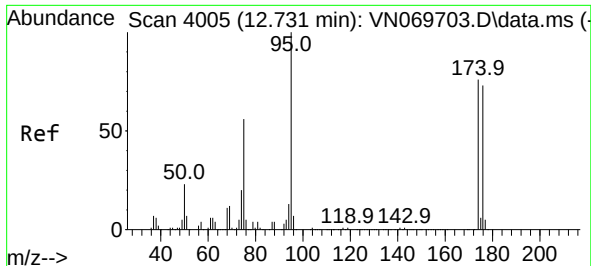
Tgt Ion: 43 Resp: 8993
Ion Ratio Lower Upper
43 100
58 51.8 26.9 80.7



#60
Dibromochloromethane
Concen: 2.388 ug/l
RT: 11.242 min Scan# 3450
Delta R.T. 0.002 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

Tgt Ion: 129 Resp: 155
Ion Ratio Lower Upper
129 100
127 51.6 38.6 116.0

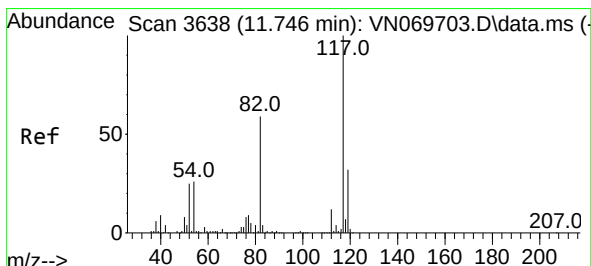
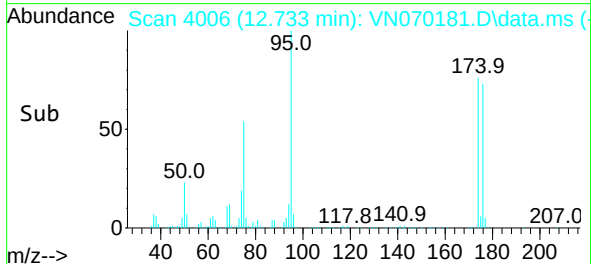
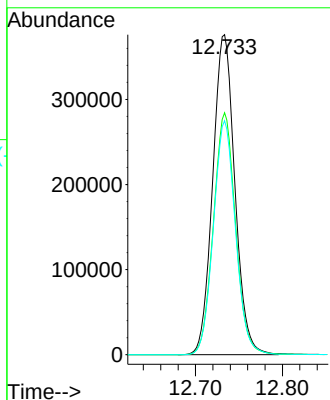
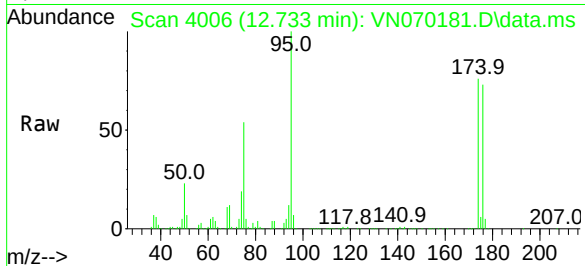




#62
4-Bromofluorobenzene
Concen: 43.614 ug/l
RT: 12.733 min Scan# 4005
Delta R.T. 0.002 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

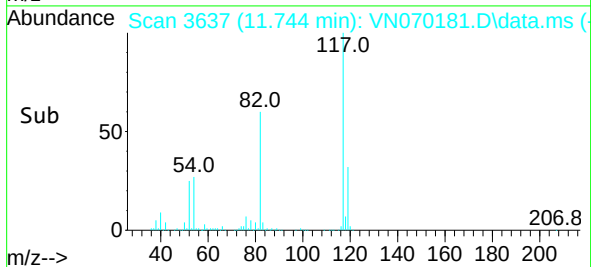
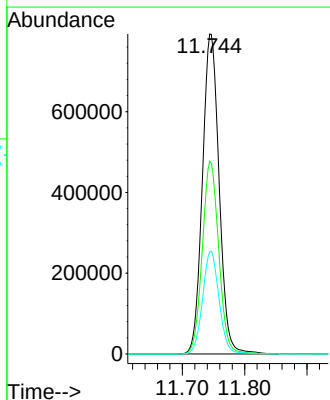
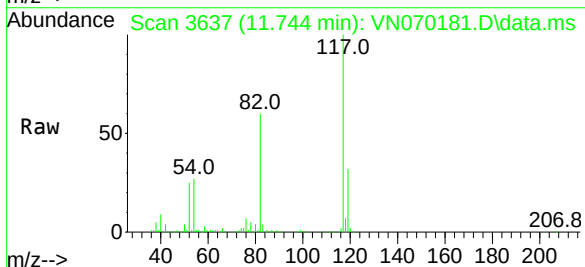
Instrument :
MSVOA_N
ClientSampleId :

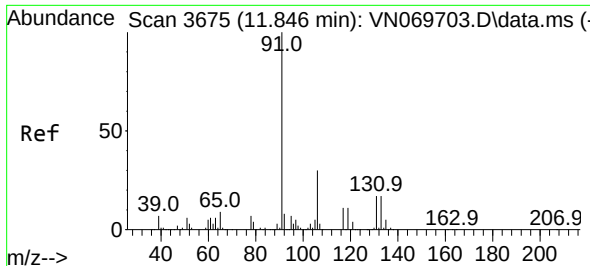
Tgt Ion: 95 Resp: 666105
Ion Ratio Lower Upper
95 100
174 75.4 0.0 187.2
176 72.7 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 3637
Delta R.T. -0.002 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

Tgt Ion: 117 Resp: 1477382
Ion Ratio Lower Upper
117 100
82 60.2 42.4 63.6
119 31.9 25.4 38.2

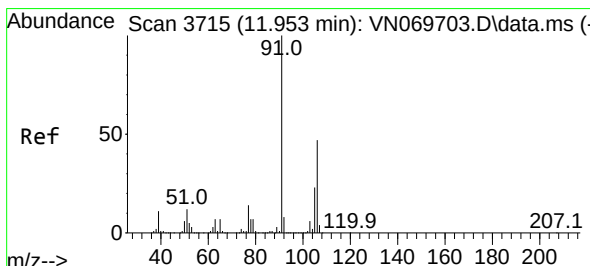
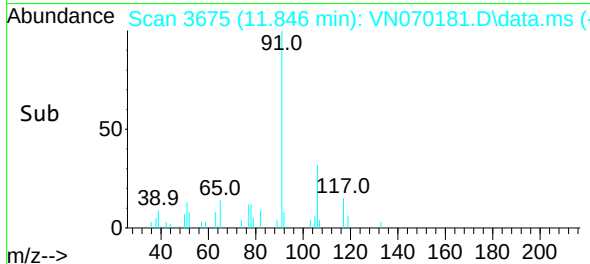
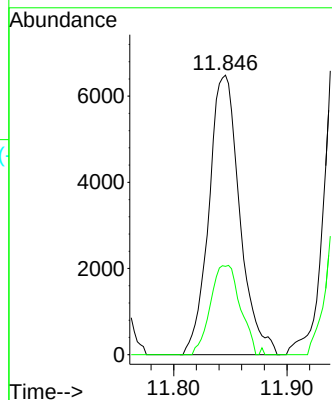
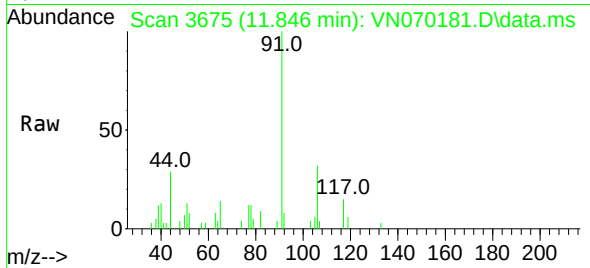




#67
Ethyl Benzene
Concen: 0.225 ug/l
RT: 11.846 min Scan# 3675
Delta R.T. 0.000 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

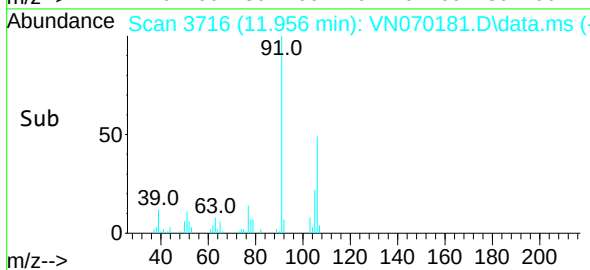
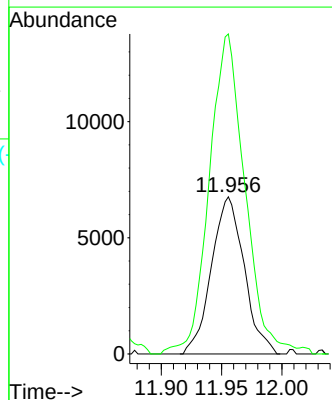
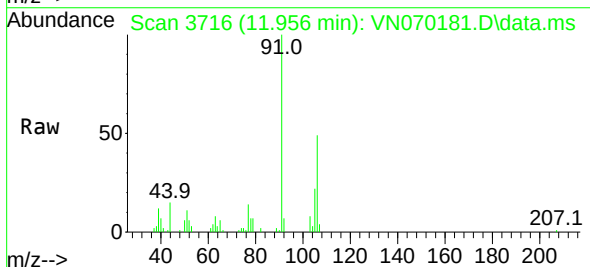
Instrument :
MSVOA_N
ClientSampleId :

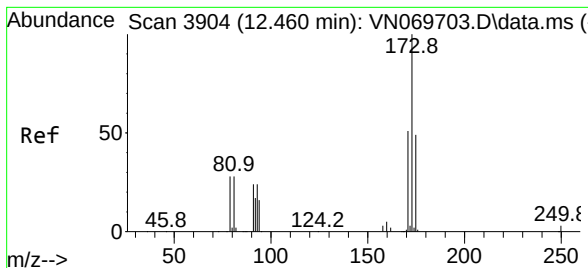
Tgt Ion: 91 Resp: 12241
Ion Ratio Lower Upper
91 100
106 31.6 25.7 38.5



#68
m/p-Xylenes
Concen: 0.644 ug/l
RT: 11.956 min Scan# 3716
Delta R.T. 0.003 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

Tgt Ion: 106 Resp: 12764
Ion Ratio Lower Upper
106 100
91 221.5 160.6 240.8





#71

Bromoform

Concen: 2.893 ug/l

RT: 12.728 min Scan# 4004

Delta R.T. 0.268 min

Lab File: VN070181.D

Acq: 17 Dec 2021 23:25

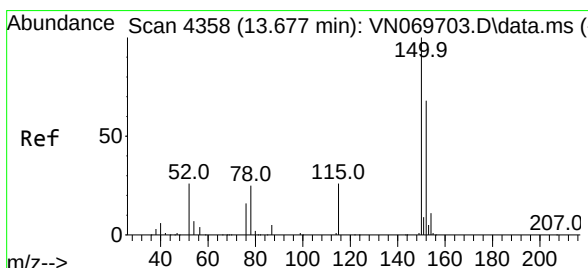
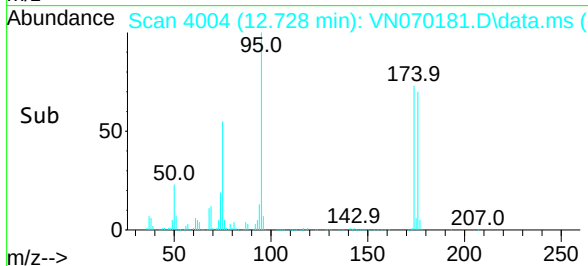
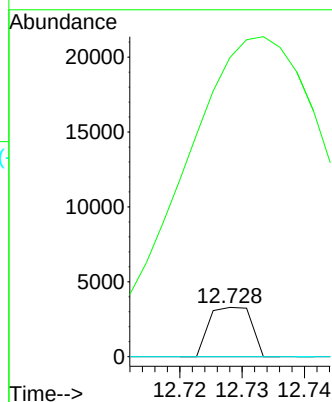
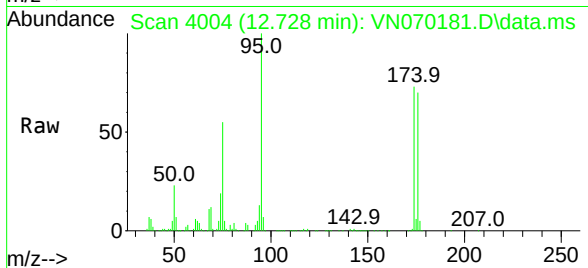
Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:173 Resp: 1545

Ion	Ratio	Lower	Upper
173	100		
175	2268.3	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

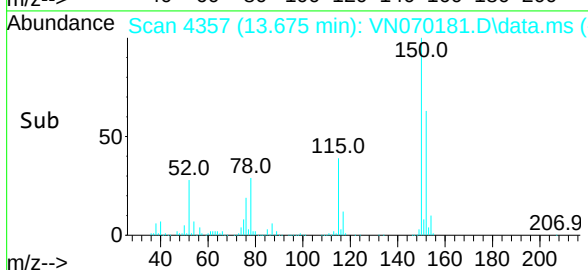
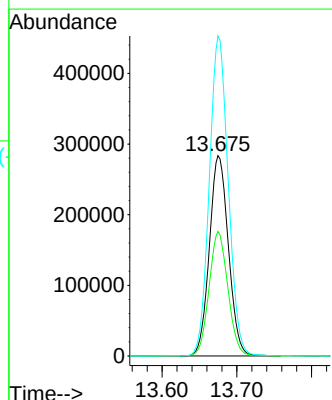
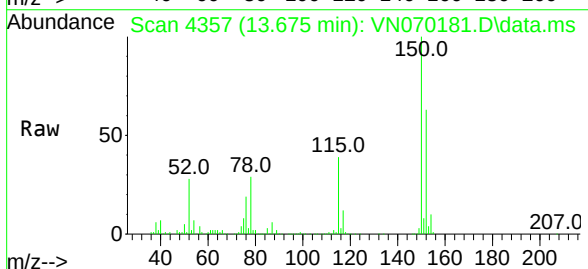
Delta R.T. -0.003 min

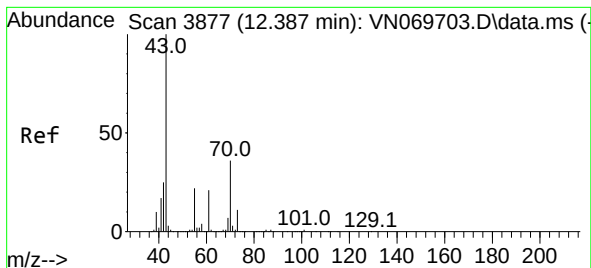
Lab File: VN070181.D

Acq: 17 Dec 2021 23:25

Tgt Ion:152 Resp: 502221

Ion	Ratio	Lower	Upper
152	100		
115	61.4	27.5	82.5
150	158.2	0.0	344.4





#74

N-amy1 acetate

Concen: 0.254 ug/l

RT: 12.395 min Scan# 3

Delta R.T. 0.008 min

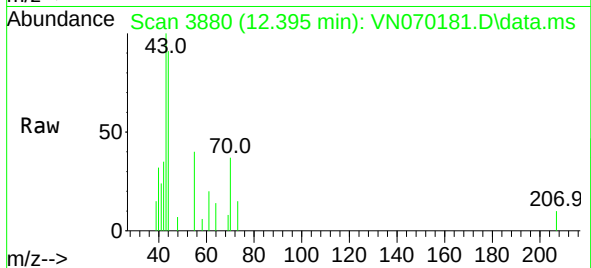
Lab File: VN070181.D

Acq: 17 Dec 2021 23:25

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 5015

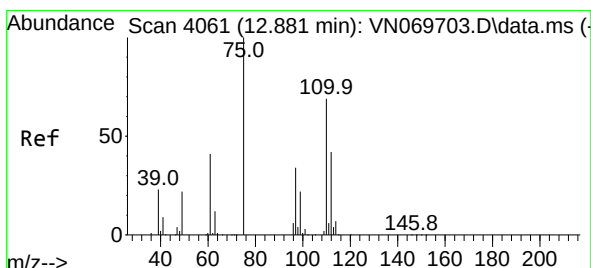
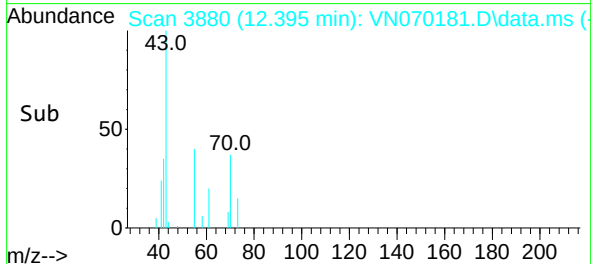
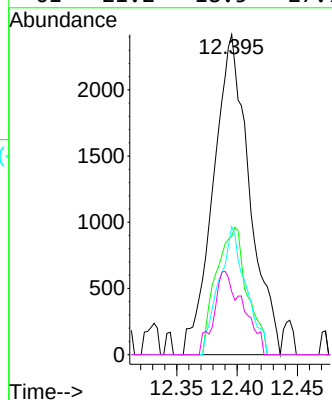
Ion Ratio Lower Upper

43 100

70 34.1 33.4 50.0

55 30.1 19.3 28.9#

61 21.2 18.5 27.7



#76

1,2,3-Trichloropropane

Concen: 25.603 ug/l

RT: 12.733 min Scan# 4006

Delta R.T. -0.147 min

Lab File: VN070181.D

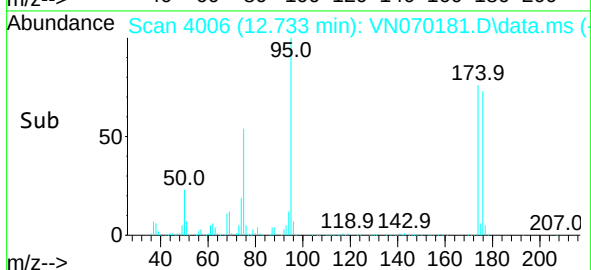
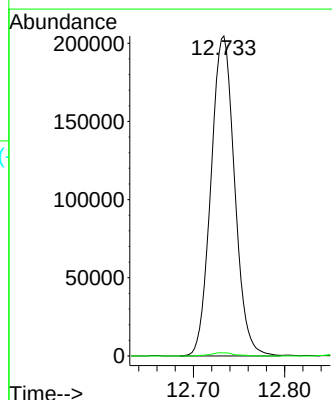
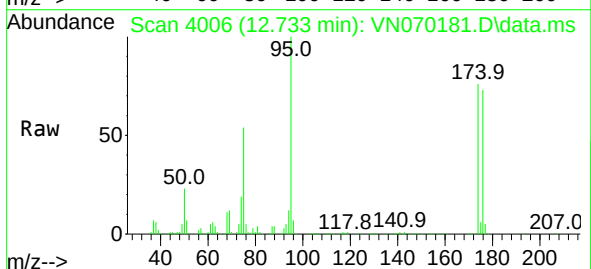
Acq: 17 Dec 2021 23:25

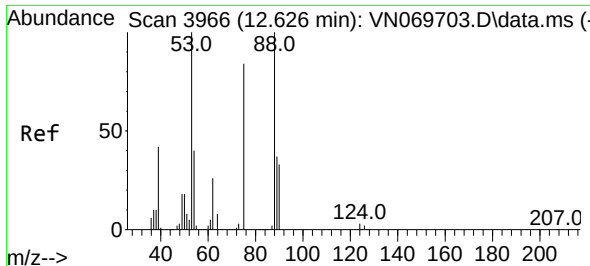
Tgt Ion: 75 Resp: 368745

Ion Ratio Lower Upper

75 100

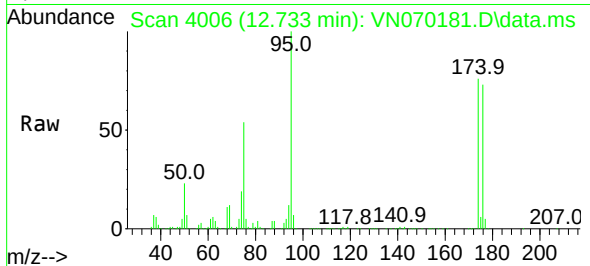
77 1.0 82.6 247.8#



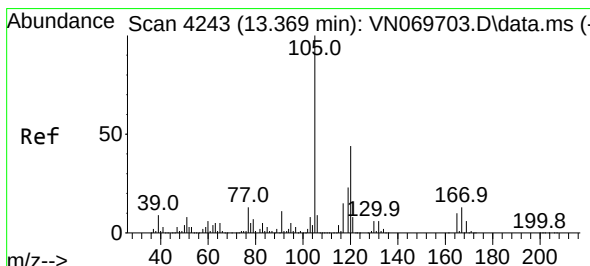
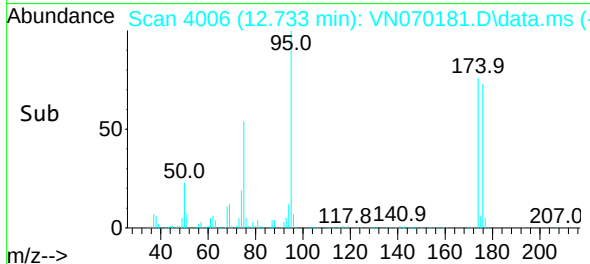
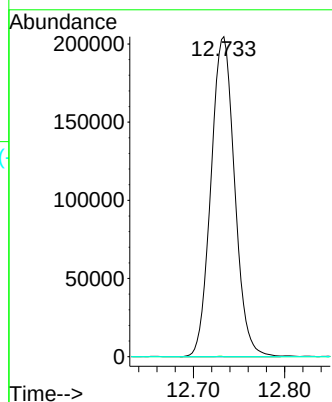


#81
trans-1,4-Dichloro-2-butene
Concen: 81.050 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

Instrument :
MSVOA_N
ClientSampleId :

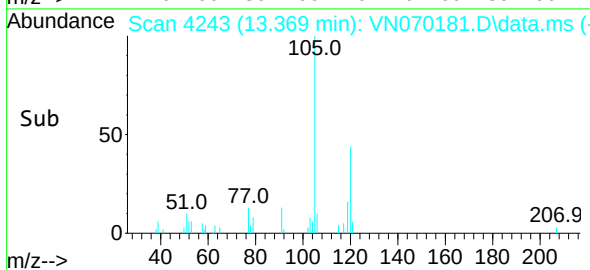
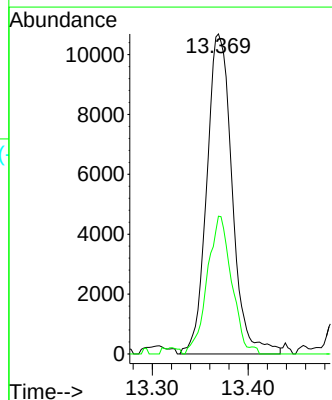
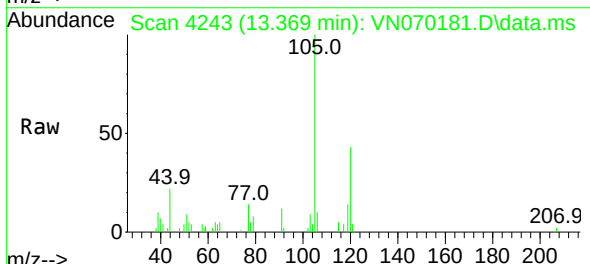


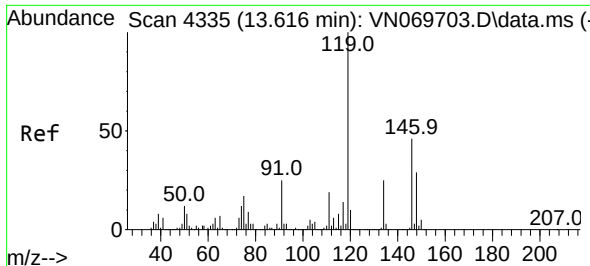
Tgt Ion: 75 Resp: 368745
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#



#84
1,2,4-Trimethylbenzene
Concen: 0.575 ug/l
RT: 13.369 min Scan# 4243
Delta R.T. 0.000 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

Tgt Ion: 105 Resp: 19684
Ion Ratio Lower Upper
105 100
120 41.4 22.8 68.4

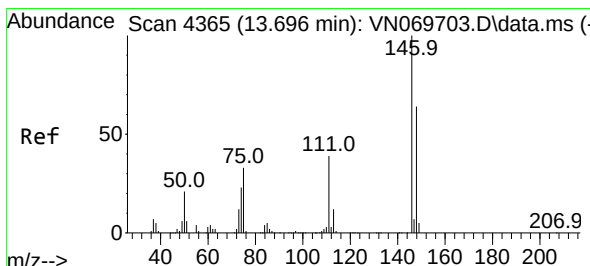
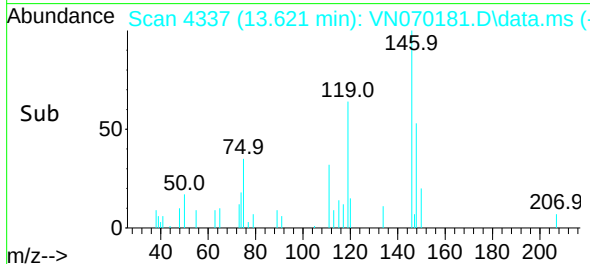
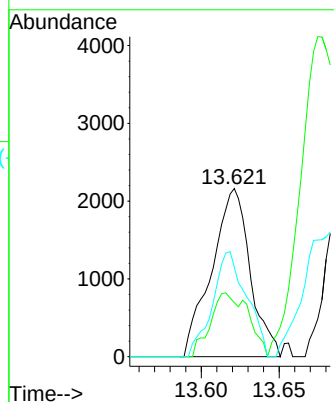
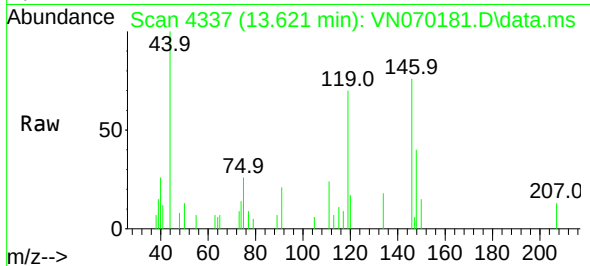




#87
1,3-Dichlorobenzene
Concen: 0.215 ug/l
RT: 13.621 min Scan# 4337
Delta R.T. 0.005 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

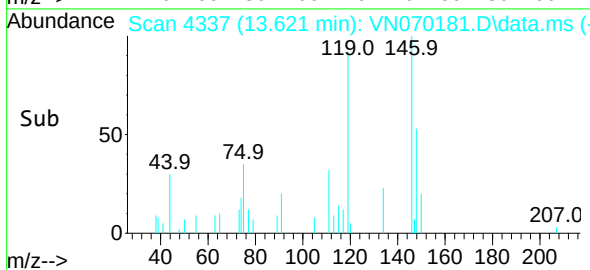
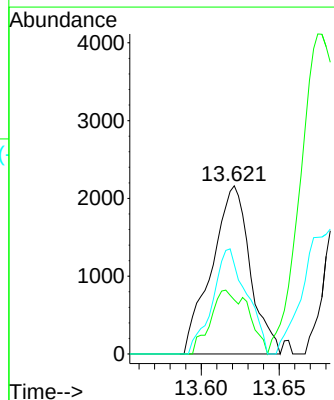
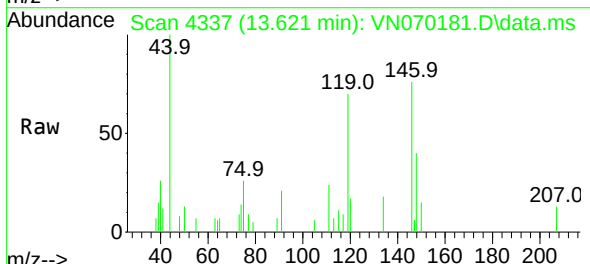
Instrument :
MSVOA_N
ClientSampleId :

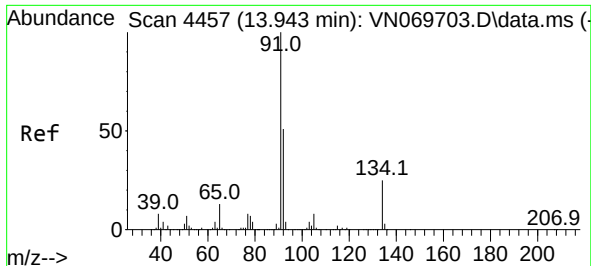
Tgt Ion:146 Resp: 3709
Ion Ratio Lower Upper
146 100
111 37.5 18.6 55.6
148 55.5 31.6 95.0



#88
1,4-Dichlorobenzene
Concen: 0.219 ug/l
RT: 13.621 min Scan# 4337
Delta R.T. -0.075 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

Tgt Ion:146 Resp: 3709
Ion Ratio Lower Upper
146 100
111 37.5 18.3 54.8
148 55.5 31.8 95.4

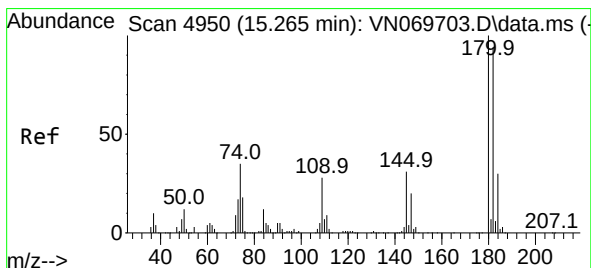
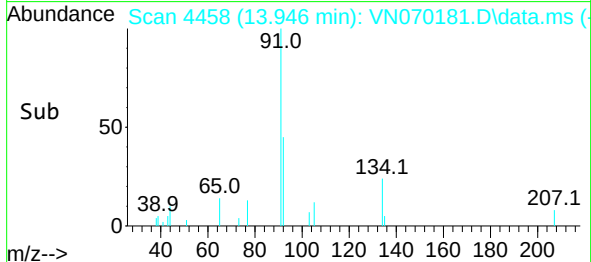
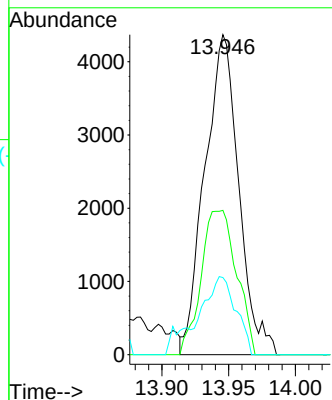
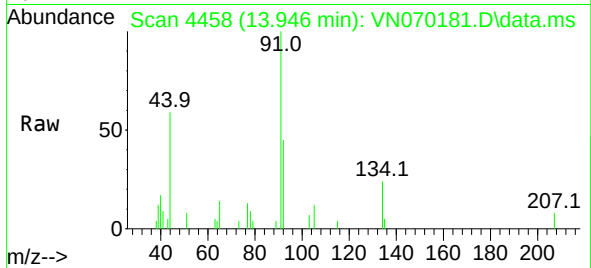




#89
n-Butylbenzene
Concen: 0.282 ug/l
RT: 13.946 min Scan# 4458
Delta R.T. 0.003 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

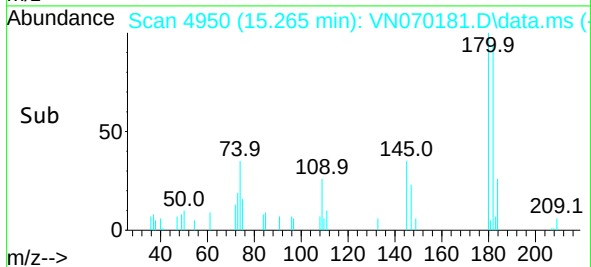
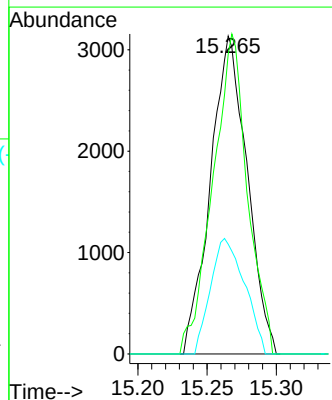
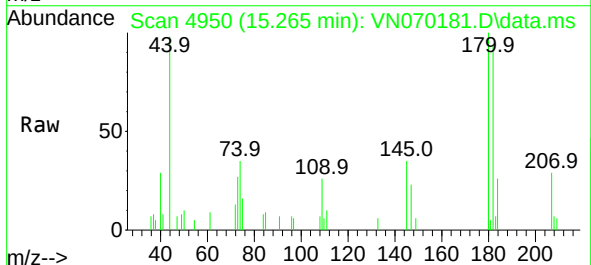
Instrument :
MSVOA_N
ClientSampleId :

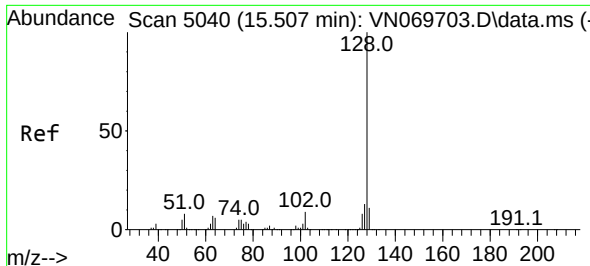
Tgt Ion: 91	Resp:	7719
Ion Ratio	Lower	Upper
91	100	
92	47.1	25.4 76.0
134	27.7	13.6 40.8



#93
1,2,4-Trichlorobenzene
Concen: 3.539 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

Tgt Ion: 180	Resp:	5781
Ion Ratio	Lower	Upper
180	100	
182	94.8	48.3 144.9
145	33.6	14.5 43.5

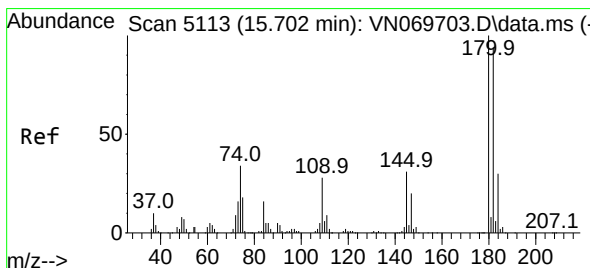
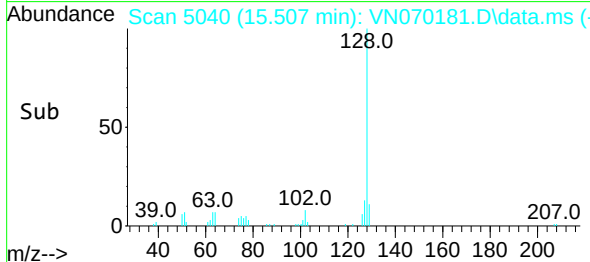
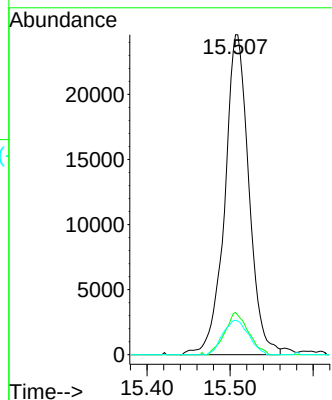
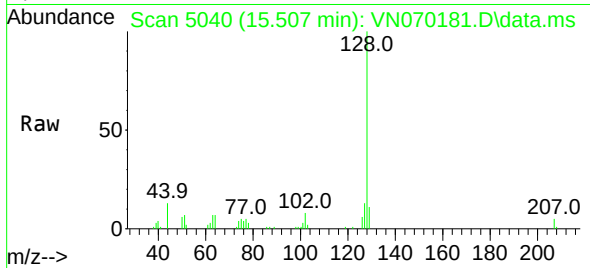




#95
Naphthalene
Concen: 5.846 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.000 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 49640
Ion Ratio Lower Upper
128 100
127 12.8 10.5 15.7
129 11.4 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 3.239 ug/l
RT: 15.700 min Scan# 5112
Delta R.T. -0.002 min
Lab File: VN070181.D
Acq: 17 Dec 2021 23:25

Tgt Ion:180 Resp: 6785
Ion Ratio Lower Upper
180 100
182 103.2 47.4 142.2
145 32.8 15.0 45.1

