

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121721\
 Data File : VN070161.D
 Acq On : 17 Dec 2021 13:50
 Operator : JC/MD
 Sample : M5131-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 211215028-VOA-02

Quant Time: Dec 18 05:30:17 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N121321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Dec 14 00:59:04 2021
 Response via : Initial Calibration

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

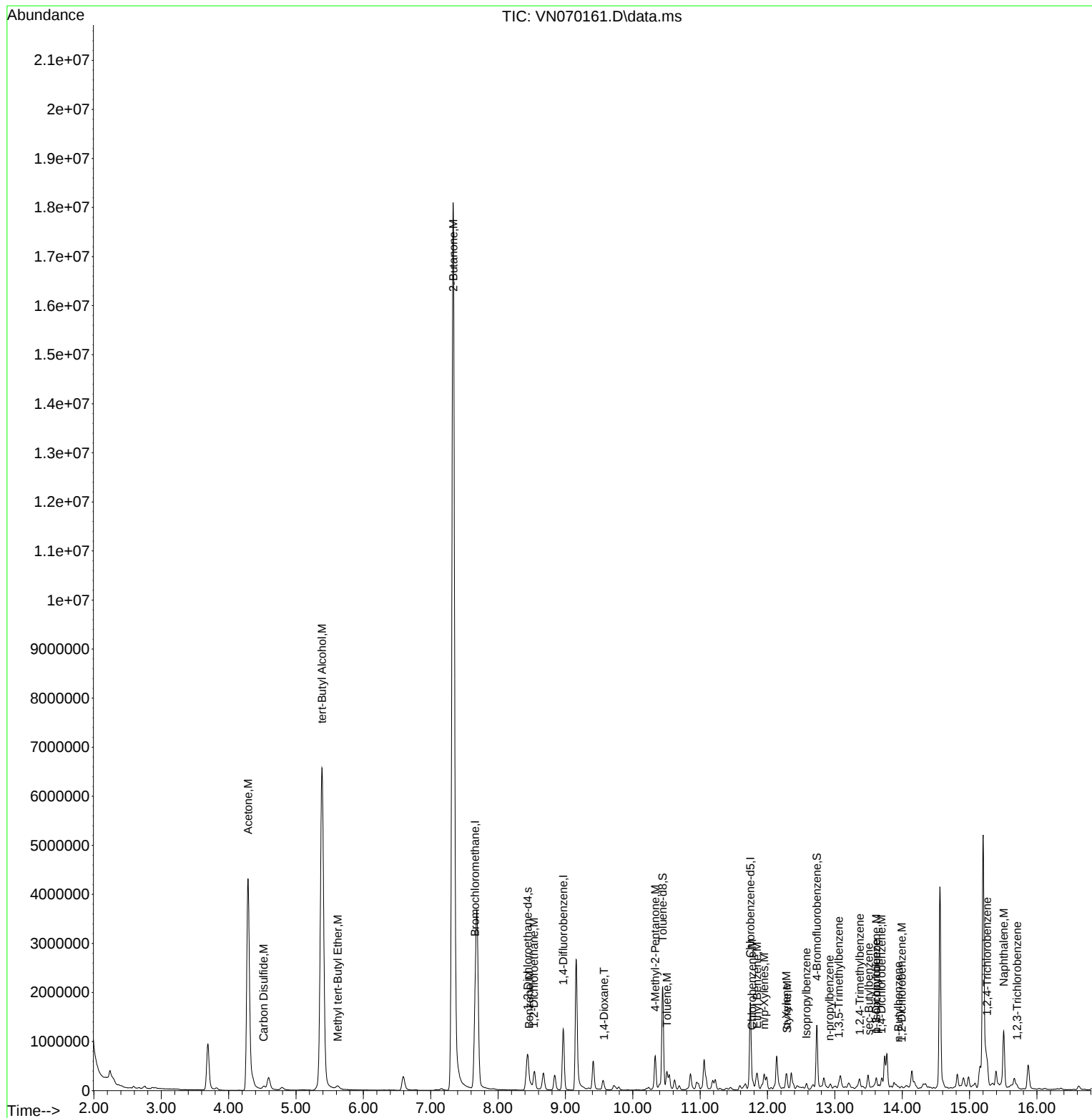
Internal Standards						
1) Bromochloromethane	7.659	128	180886	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	1039411	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.746	117	950799	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	509826	31.804	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	106.000%
60) 4-Bromofluorobenzene	12.733	95	435092	27.810	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.700%
63) Toluene-d8	10.443	98	1322305	30.095	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.300%
Target Compounds						Qvalue
15) Acetone	4.288	58	2345128	880.573	ug/l	79
16) Carbon Disulfide	4.521	76	130236	4.188	ug/l	99
23) tert-Butyl Alcohol	5.385	59	12069198	5202.086	ug/l	# 100
24) Methyl tert-Butyl Ether	5.621	73	87776	2.395	ug/l	# 59
30) 2-Butanone	7.337	43	15365200	1247.855	ug/l	# 89
34) Benzene	8.461	78	95246	1.800	ug/l	# 38
36) 1,2-Dichloroethane	8.533	62	19854	0.951	ug/l	97
45) 1,4-Dioxane	9.574	88	32805	134.657	ug/l	# 61
58) 4-Methyl-2-Pentanone	10.333	43	519001	23.782	ug/l	# 93
62) Toluene	10.505	91	240883	4.308	ug/l	98
64) Chlorobenzene	11.771	112	39857	1.201	ug/l	97
66) Ethyl Benzene	11.846	91	195315	3.142	ug/l	100
67) m/p-Xylenes	11.950	106	96954	4.269	ug/l	93
68) o-Xylene	12.280	106	64018	2.849	ug/l	95
69) Styrene	12.291	104	33270	0.908	ug/l	# 80
70) Isopropylbenzene	12.578	105	37410	0.635	ug/l	98
74) n-propylbenzene	12.921	91	24548	0.359	ug/l	97
76) 1,3,5-Trimethylbenzene	13.058	105	21859	0.451	ug/l	98
80) 1,2,4-Trimethylbenzene	13.369	105	75831	1.619	ug/l	# 81
81) sec-Butylbenzene	13.503	105	12801	0.218	ug/l	68
82) p-Isopropyltoluene	13.616	119	88802	1.900	ug/l	94
83) 1,3-Dichlorobenzene	13.613	146	6863	0.297	ug/l	91
84) 1,4-Dichlorobenzene	13.694	146	54888	2.466	ug/l	97
85) n-Butylbenzene	13.943	91	19440	0.498	ug/l	95
87) 1,2-Dichlorobenzene	13.994	146	11921	0.536	ug/l	96
89) 1,2,4-Trichlorobenzene	15.262	180	18341	1.773	ug/l	98
91) Naphthalene	15.507	128	1039503	35.224	ug/l	99
92) 1,2,3-Trichlorobenzene	15.705	180	20823	2.131	ug/l	95

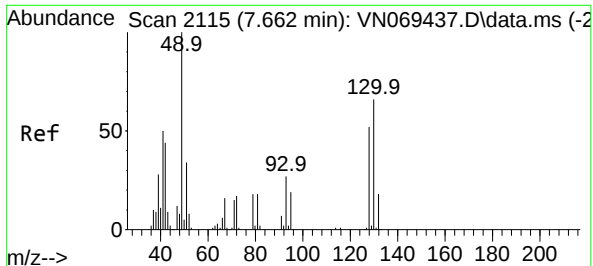
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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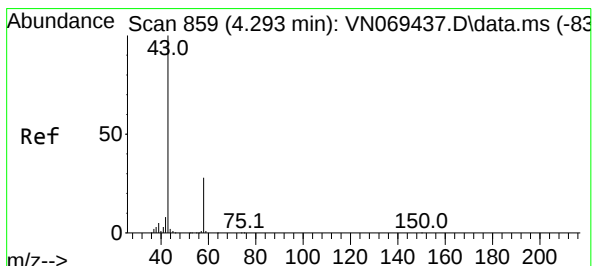
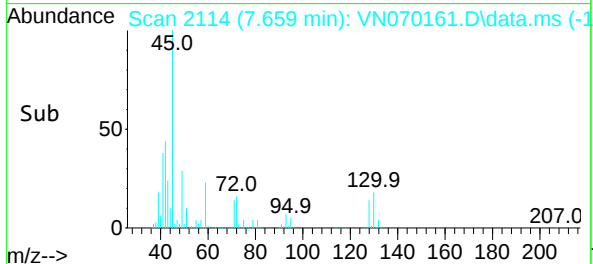
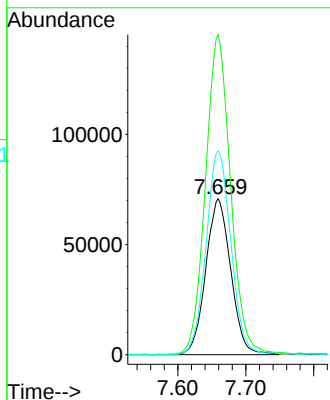
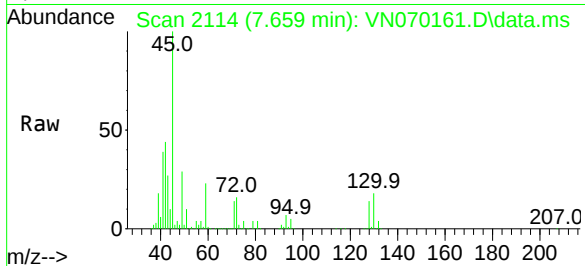




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.659 min Scan# 2114
Delta R.T. 0.002 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

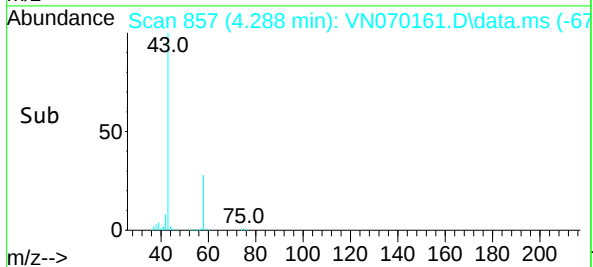
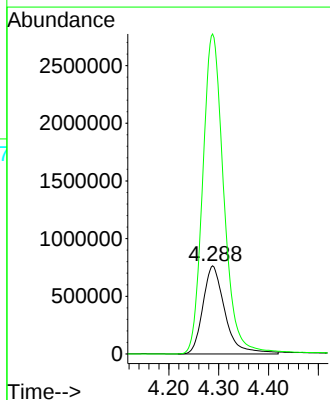
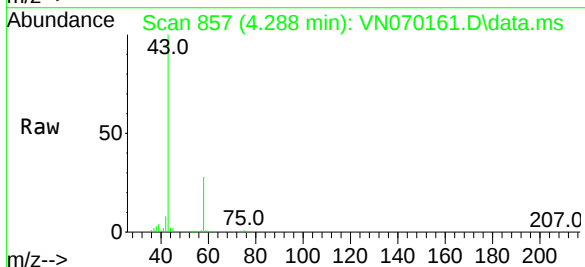
Instrument :
MSVOA_N
ClientSampleId :
211215028-VOA-02

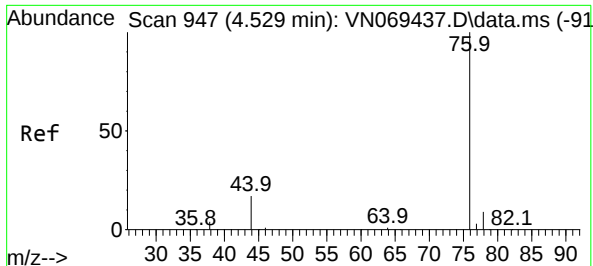
Tgt Ion:128 Resp: 180886
Ion Ratio Lower Upper
128 100
49 204.9 0.0 392.3
130 130.1 0.0 320.2



#15
Acetone
Concen: 880.573 ug/l
RT: 4.288 min Scan# 857
Delta R.T. 0.003 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

Tgt Ion: 58 Resp: 2345128
Ion Ratio Lower Upper
58 100
43 363.0 256.6 384.8

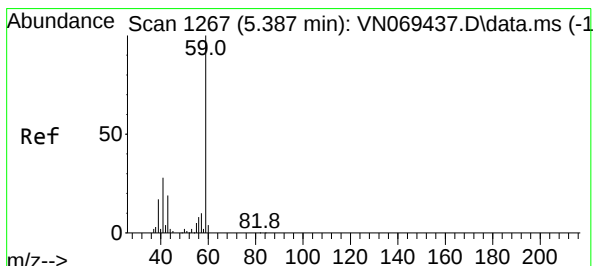
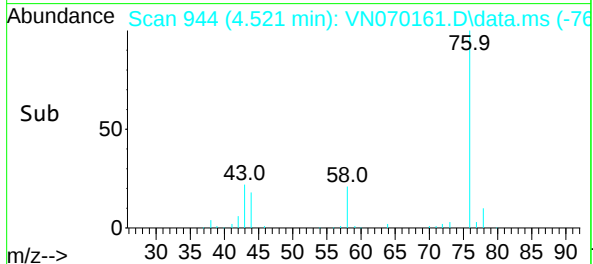
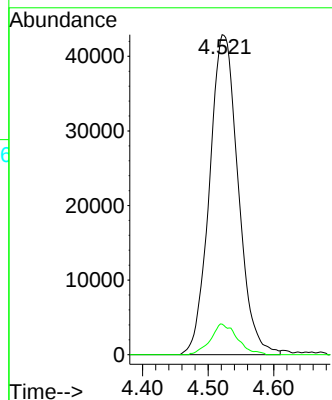
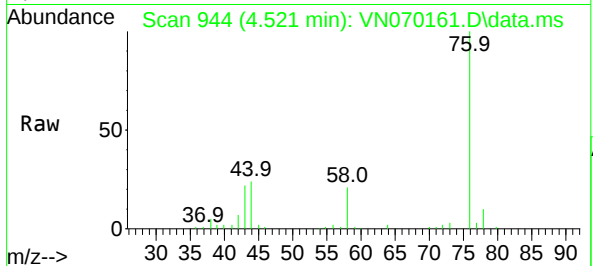




#16
Carbon Disulfide
Concen: 4.188 ug/l
RT: 4.521 min Scan# 94
Delta R.T. -0.008 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

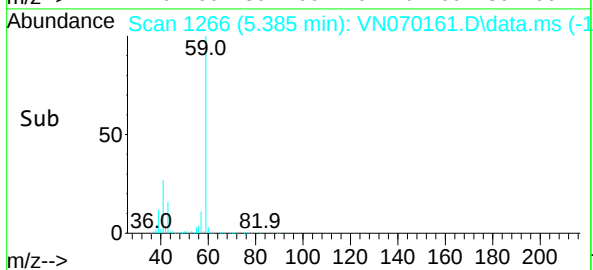
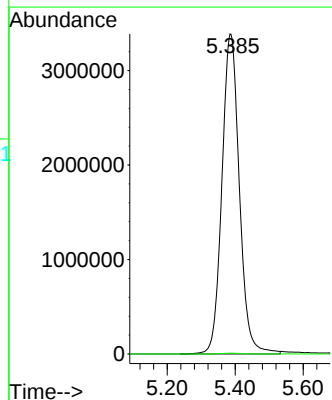
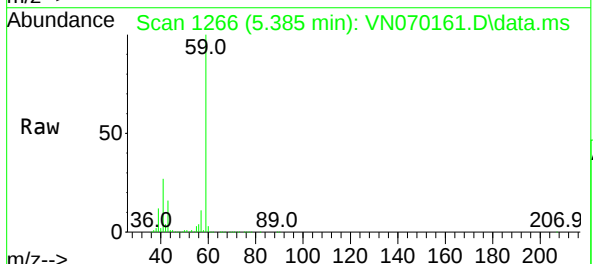
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ClientSampleId :
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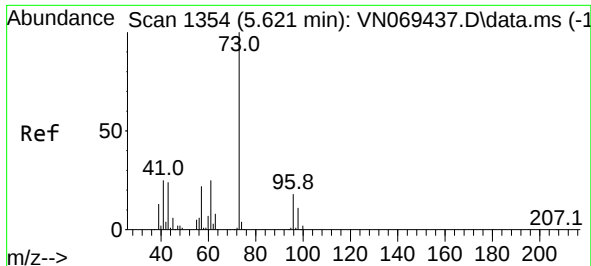
Tgt Ion: 76 Resp: 130236
Ion Ratio Lower Upper
76 100
78 9.5 7.8 11.8



#23
tert-Butyl Alcohol
Concen: 5202.086 ug/l
RT: 5.385 min Scan# 1266
Delta R.T. 0.011 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

Tgt Ion: 59 Resp:12069198
Ion Ratio Lower Upper
59 100
52 0.2 0.0 0.0#

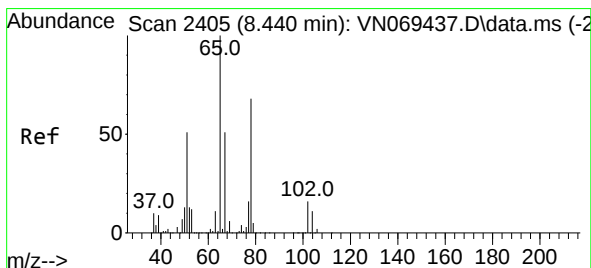
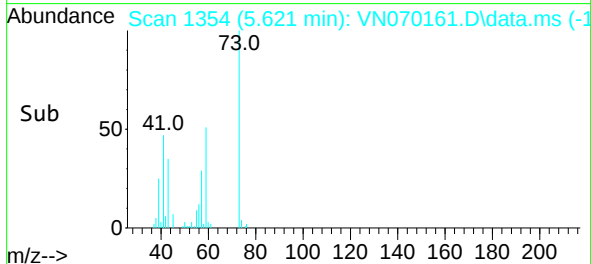
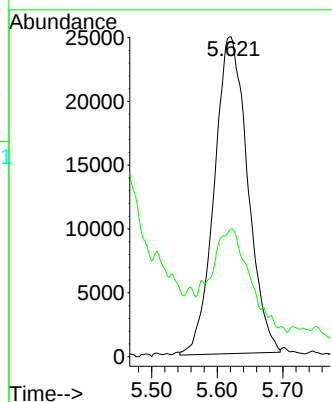
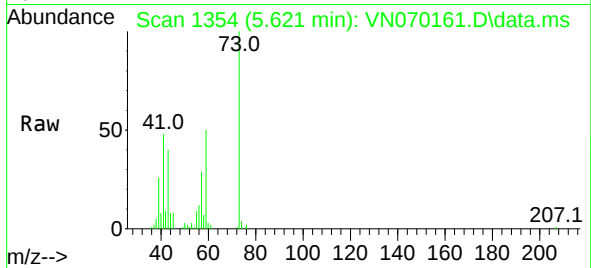




#24
Methyl tert-Butyl Ether
Concen: 2.395 ug/l
RT: 5.621 min Scan# 11
Delta R.T. 0.003 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

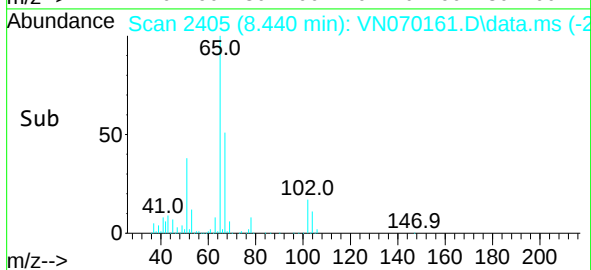
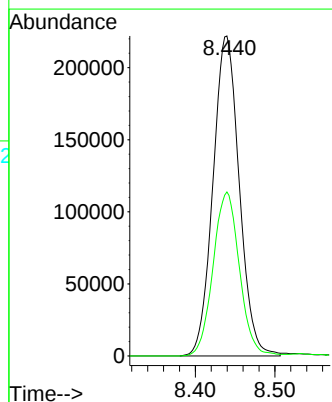
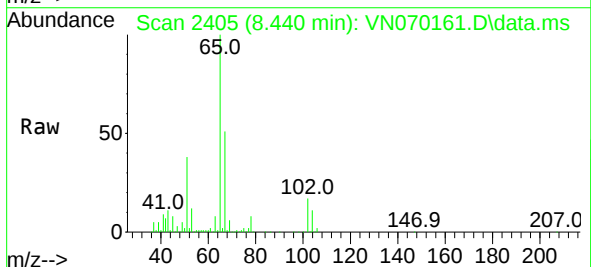
Instrument :
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ClientSampleId :
211215028-VOA-02

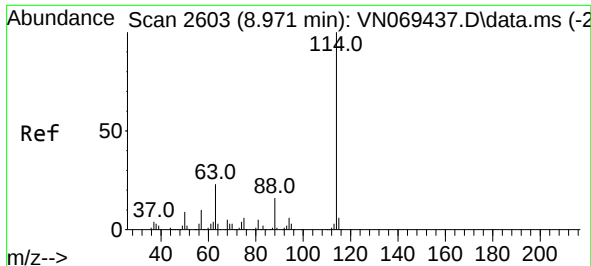
Tgt Ion: 73 Resp: 87776
Ion Ratio Lower Upper
73 100
43 2.8 18.1 27.1#



#27
1,2-Dichloroethane-d4
Concen: 31.804 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

Tgt Ion: 65 Resp: 509826
Ion Ratio Lower Upper
65 100
67 51.4 40.2 60.2

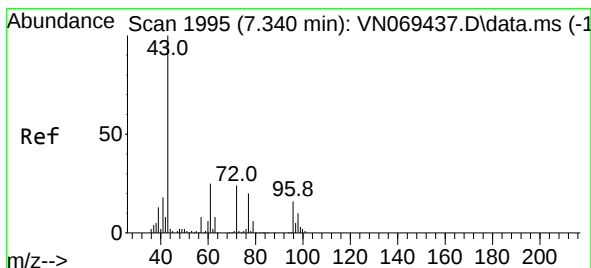
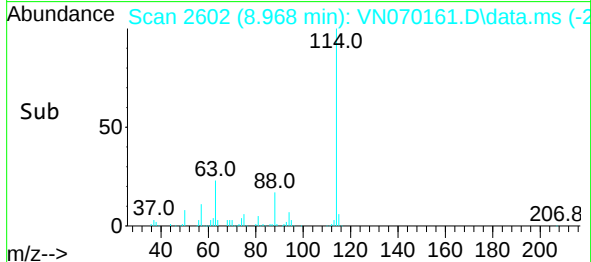
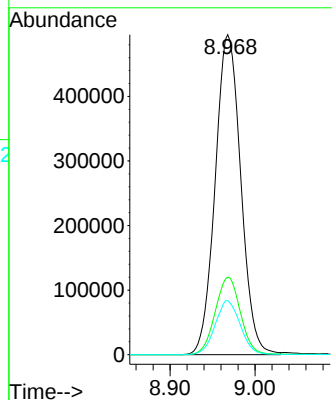
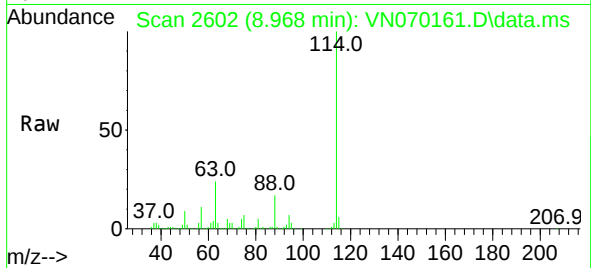




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.968 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

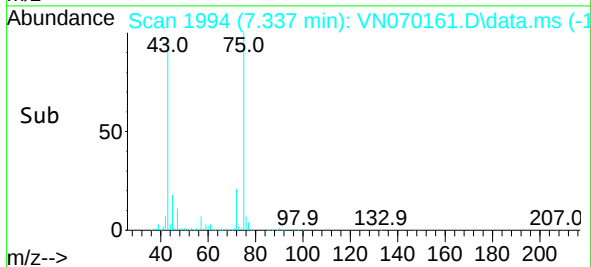
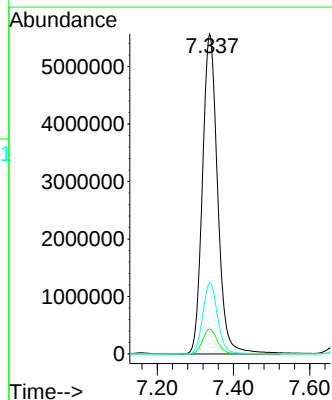
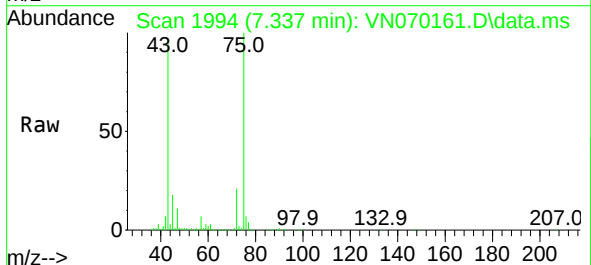
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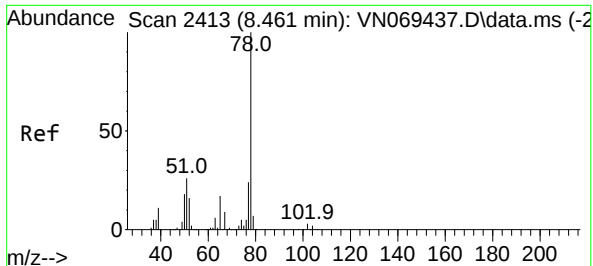
Tgt Ion:114 Resp: 1039411
Ion Ratio Lower Upper
114 100
63 23.8 15.8 23.6#
88 16.6 11.6 17.4



#30
2-Butanone
Concen: 1247.855 ug/l
RT: 7.337 min Scan# 1994
Delta R.T. 0.003 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

Tgt Ion: 43 Resp:15365200
Ion Ratio Lower Upper
43 100
57 7.7 6.7 10.1
72 21.9 23.2 34.8#

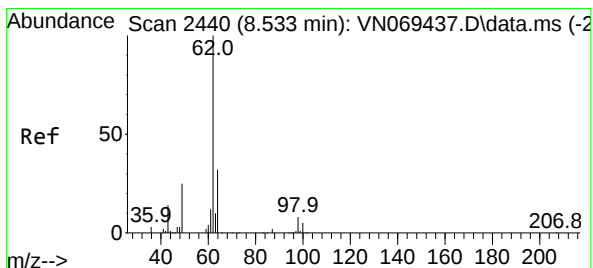
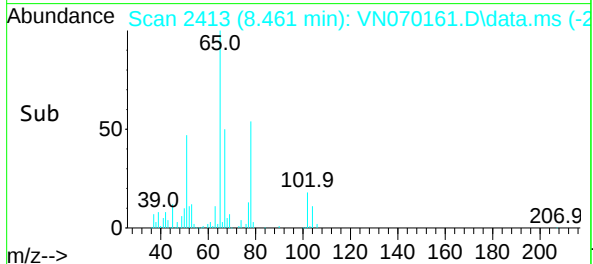
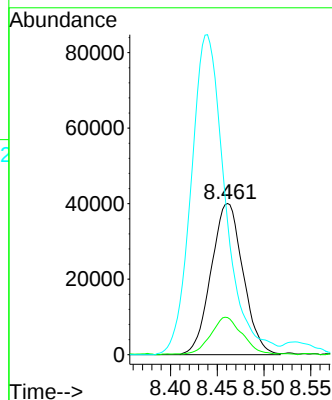
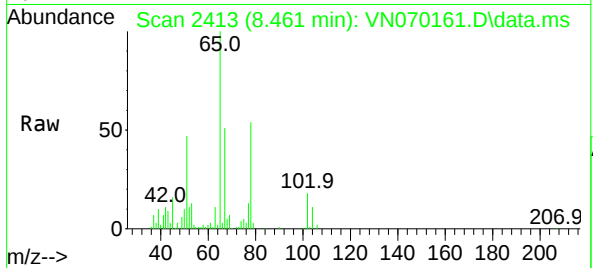




#34
Benzene
Concen: 1.800 ug/l
RT: 8.461 min Scan# 2413
Delta R.T. -0.000 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

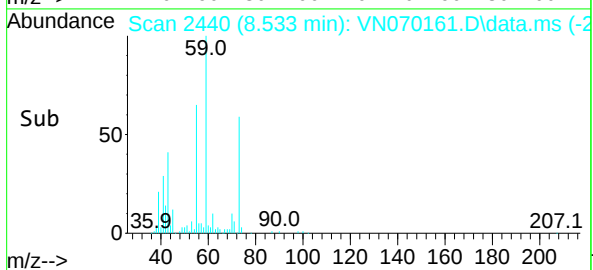
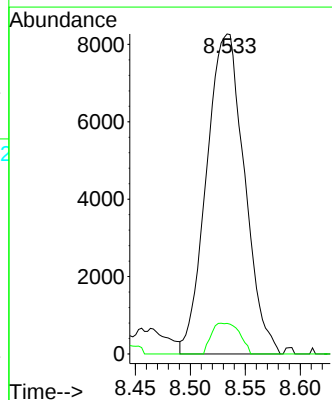
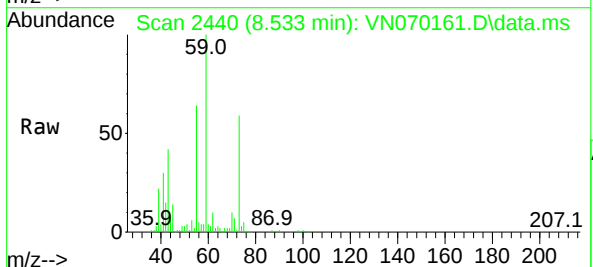
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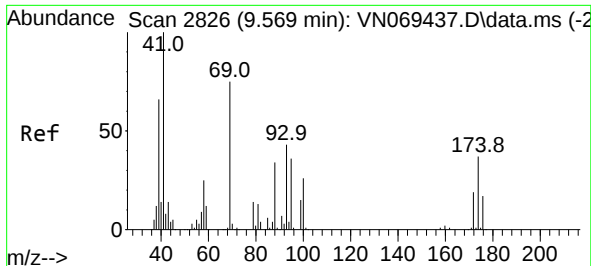
Tgt Ion: 78 Resp: 95246
Ion Ratio Lower Upper
78 100
77 24.0 19.1 28.7
51 82.4 16.0 24.0#



#36
1,2-Dichloroethane
Concen: 0.951 ug/l
RT: 8.533 min Scan# 2440
Delta R.T. 0.003 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

Tgt Ion: 62 Resp: 19854
Ion Ratio Lower Upper
62 100
98 7.1 6.6 10.0

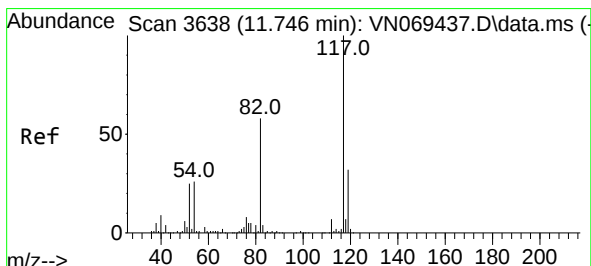
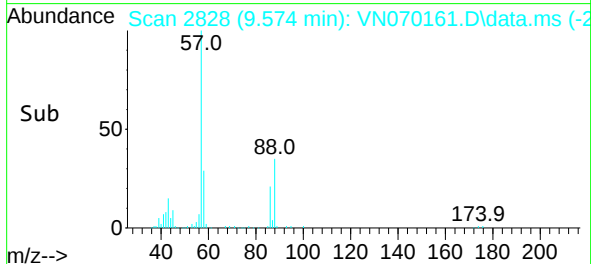
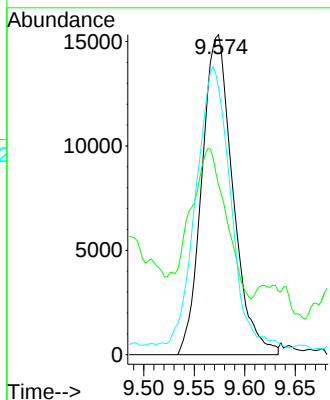
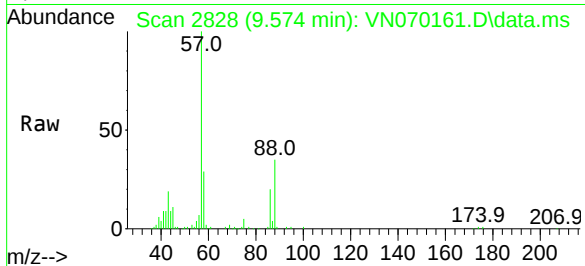




#45
1,4-Dioxane
Concen: 134.657 ug/l
RT: 9.574 min Scan# 21
Delta R.T. 0.005 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

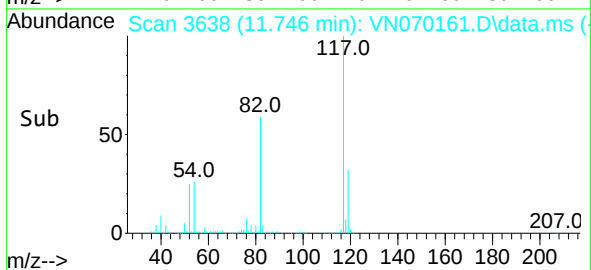
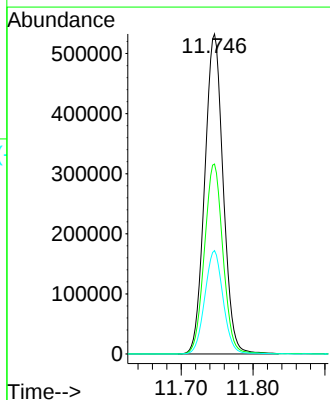
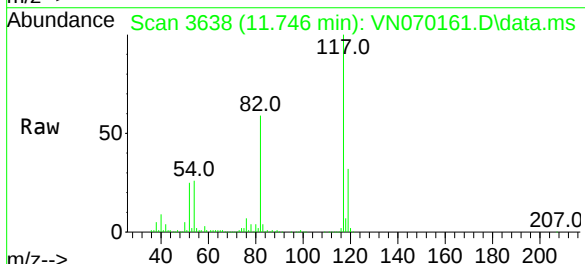
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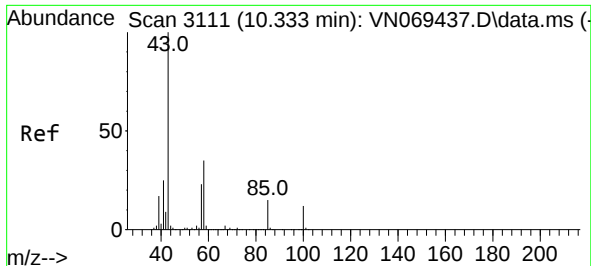
Tgt Ion: 88 Resp: 32805
Ion Ratio Lower Upper
88 100
43 51.7 25.0 37.6#
58 92.0 49.4 74.2#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. 0.003 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

Tgt Ion: 117 Resp: 950799
Ion Ratio Lower Upper
117 100
82 59.7 43.6 65.4
119 32.0 25.8 38.6

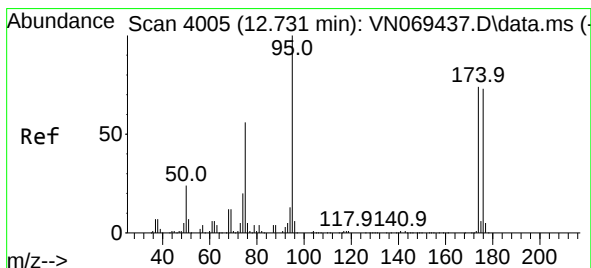
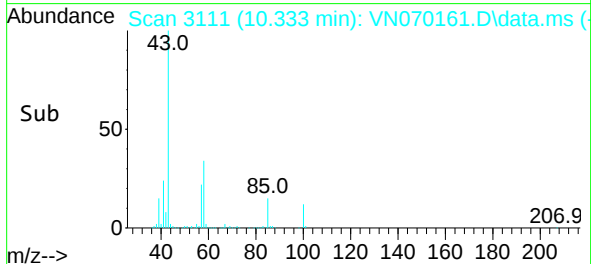
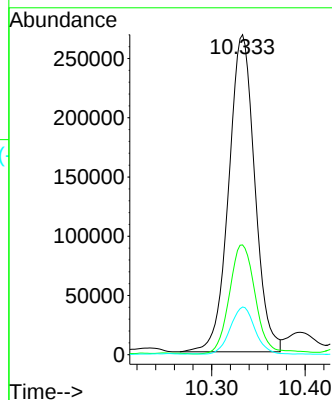
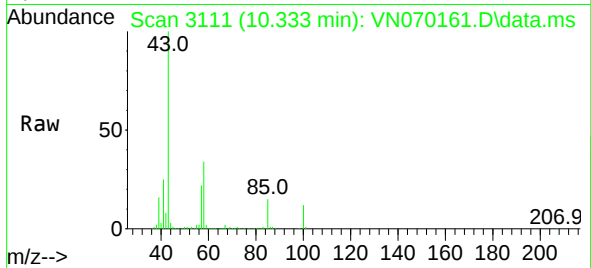




#58
4-Methyl-2-Pentanone
Concen: 23.782 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.003 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

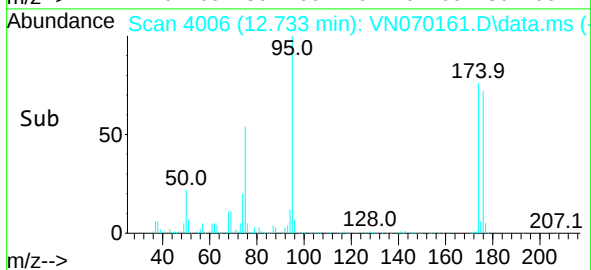
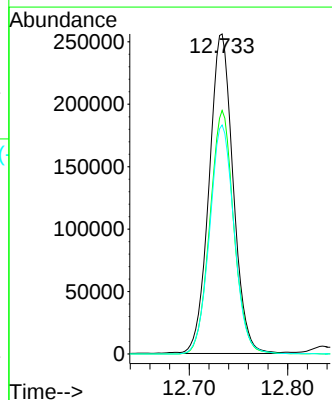
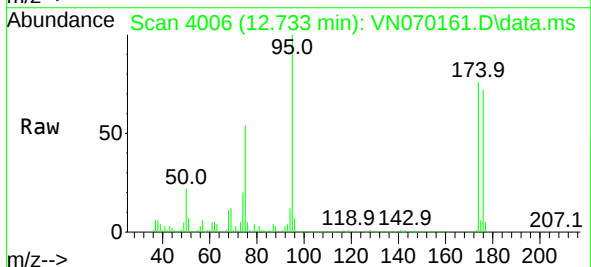
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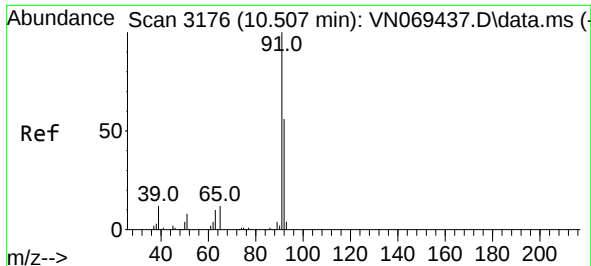
Tgt Ion: 43 Resp: 519001
Ion Ratio Lower Upper
43 100
58 34.7 30.0 45.0
85 14.0 15.0 22.6#



#60
4-Bromofluorobenzene
Concen: 27.810 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.003 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

Tgt Ion: 95 Resp: 435092
Ion Ratio Lower Upper
95 100
174 75.8 62.9 94.3
176 73.0 61.0 91.4

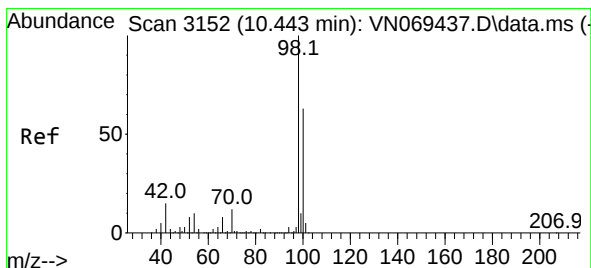
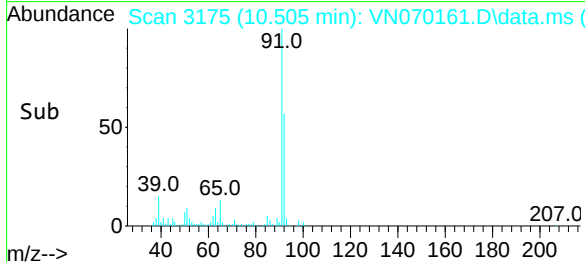
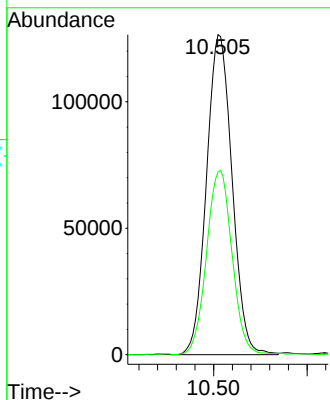
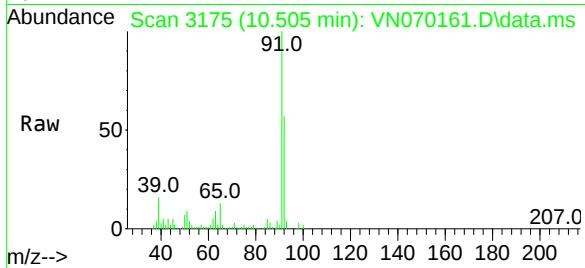




#62
Toluene
Concen: 4.308 ug/l
RT: 10.505 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

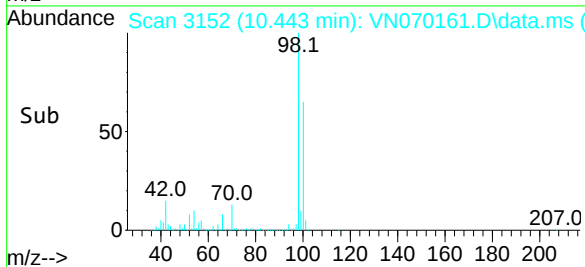
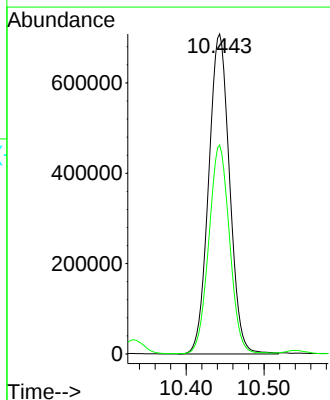
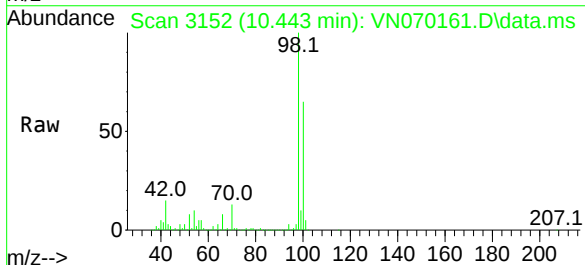
Instrument :
MSVOA_N
ClientSampleId :
211215028-VOA-02

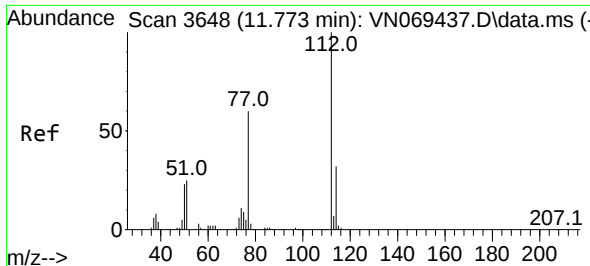
Tgt Ion: 91 Resp: 240883
Ion Ratio Lower Upper
91 100
92 57.2 44.6 67.0



#63
Toluene-d8
Concen: 30.095 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

Tgt Ion: 98 Resp: 1322305
Ion Ratio Lower Upper
98 100
100 64.4 50.6 76.0

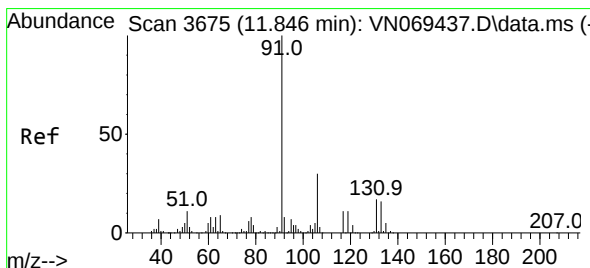
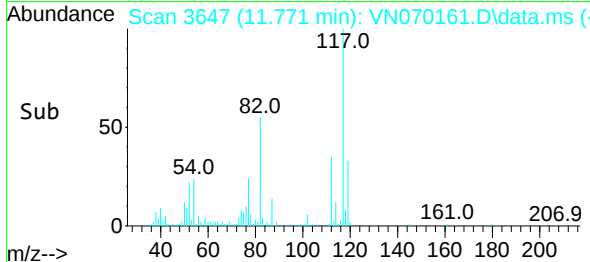
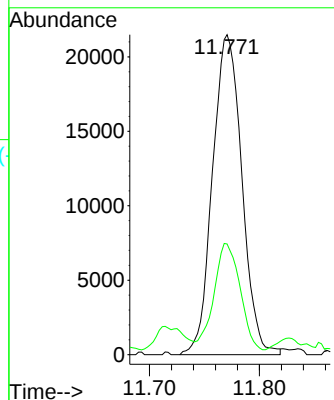
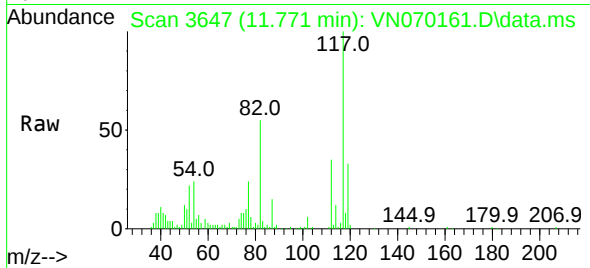




#64
Chlorobenzene
Concen: 1.201 ug/l
RT: 11.771 min Scan# 3647
Delta R.T. -0.000 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

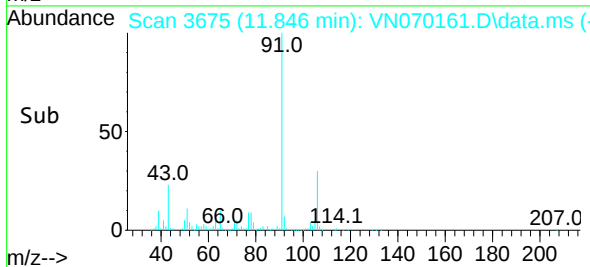
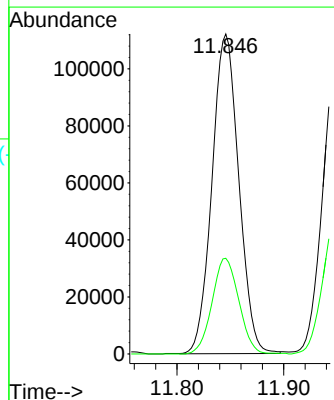
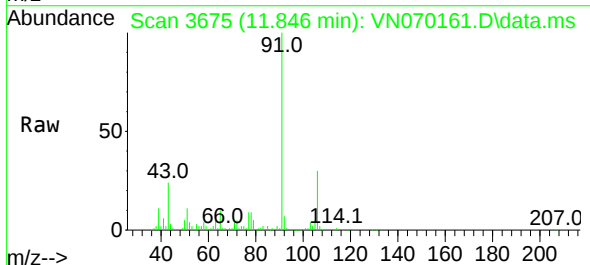
Instrument :
MSVOA_N
ClientSampleId :
211215028-VOA-02

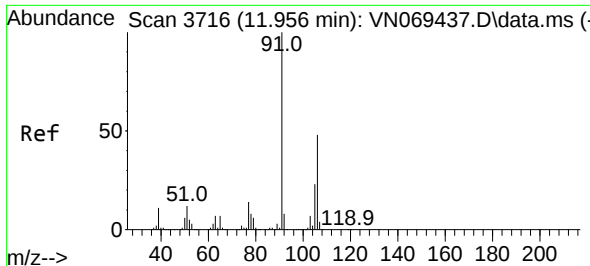
Tgt Ion:112 Resp: 39857
Ion Ratio Lower Upper
112 100
114 30.5 25.8 38.6



#66
Ethyl Benzene
Concen: 3.142 ug/l
RT: 11.846 min Scan# 3675
Delta R.T. 0.003 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

Tgt Ion: 91 Resp: 195315
Ion Ratio Lower Upper
91 100
106 30.0 24.0 36.0

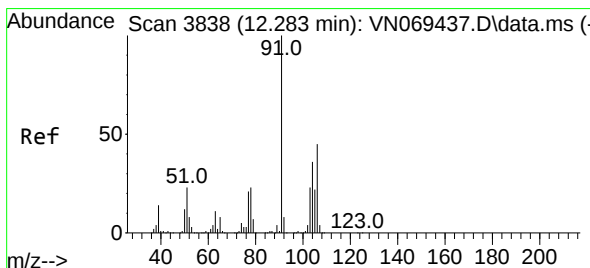
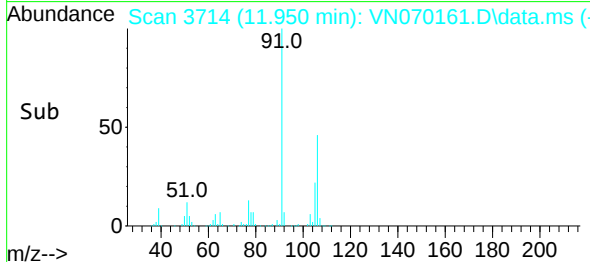
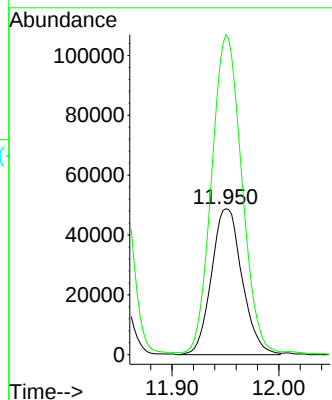
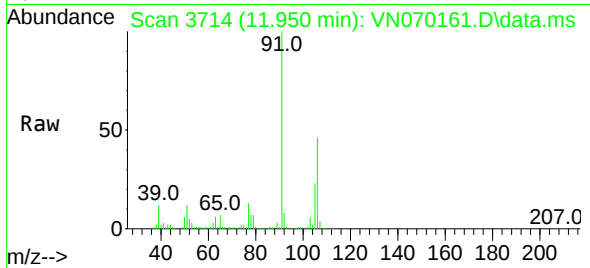




#67
m/p-Xylenes
Concen: 4.269 ug/l
RT: 11.950 min Scan# 31
Delta R.T. -0.003 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

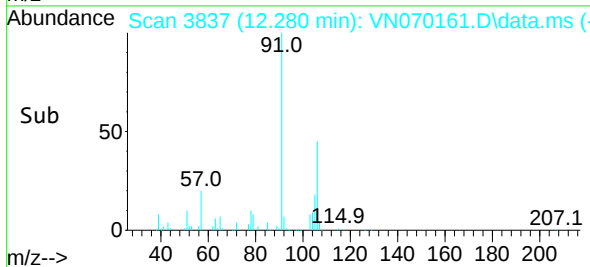
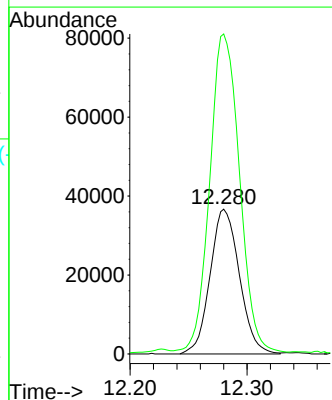
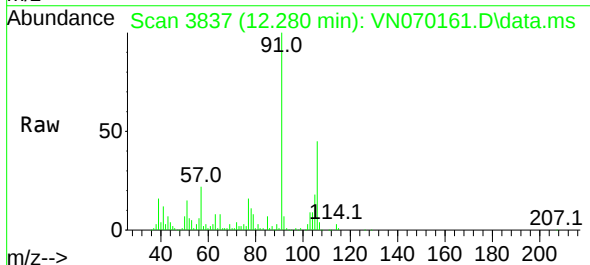
Instrument :
MSVOA_N
ClientSampleId :
211215028-VOA-02

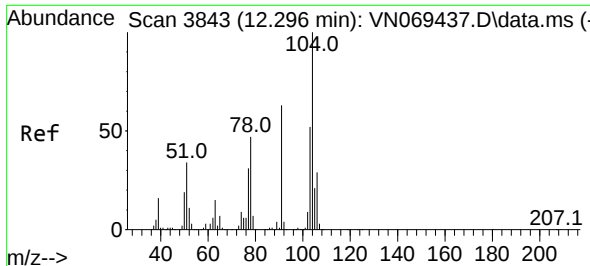
Tgt Ion:106 Resp: 96954
Ion Ratio Lower Upper
106 100
91 213.8 162.9 244.3



#68
o-Xylene
Concen: 2.849 ug/l
RT: 12.280 min Scan# 3837
Delta R.T. -0.000 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

Tgt Ion:106 Resp: 64018
Ion Ratio Lower Upper
106 100
91 223.0 107.7 323.1

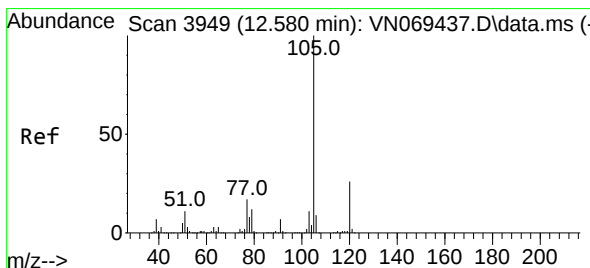
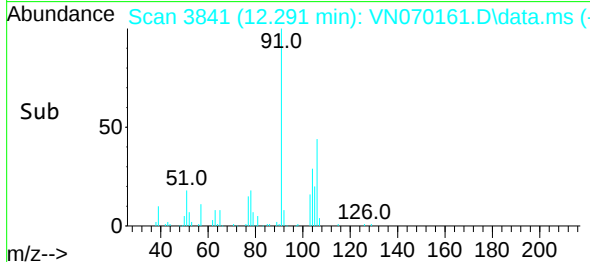
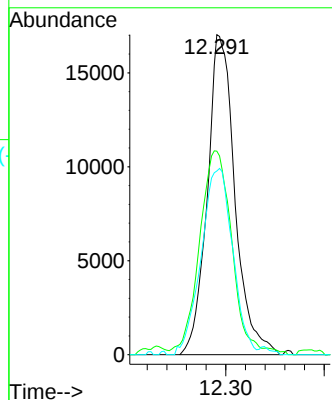
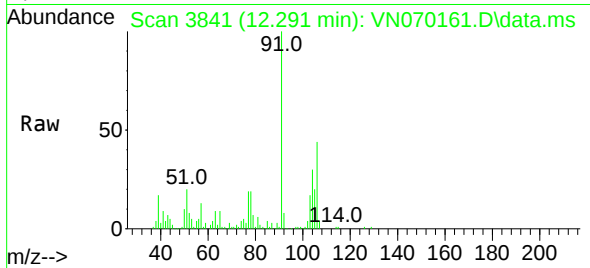




#69
Styrene
Concen: 0.908 ug/l
RT: 12.291 min Scan# 31
Delta R.T. -0.003 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

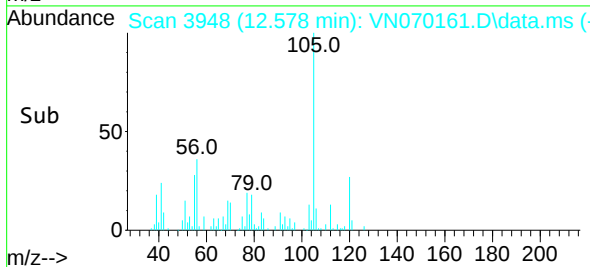
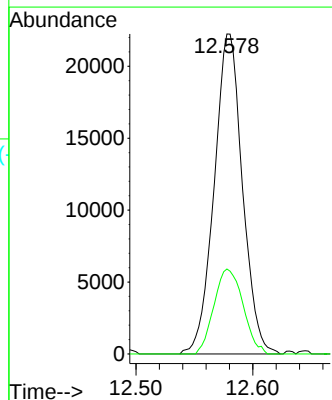
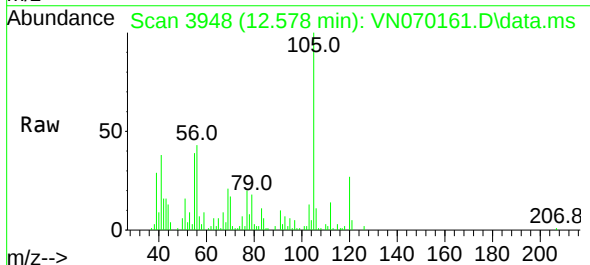
Instrument :
MSVOA_N
ClientSampleId :
211215028-VOA-02

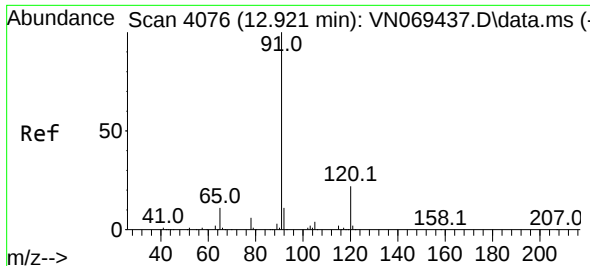
Tgt Ion:104 Resp: 33270
Ion Ratio Lower Upper
104 100
78 71.3 40.7 61.1#
103 66.3 45.8 68.8



#70
Isopropylbenzene
Concen: 0.635 ug/l
RT: 12.578 min Scan# 3948
Delta R.T. -0.000 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

Tgt Ion:105 Resp: 37410
Ion Ratio Lower Upper
105 100
120 27.3 18.3 34.1

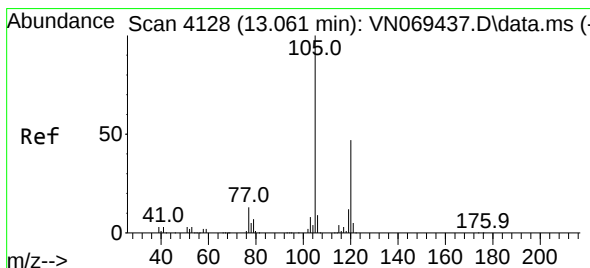
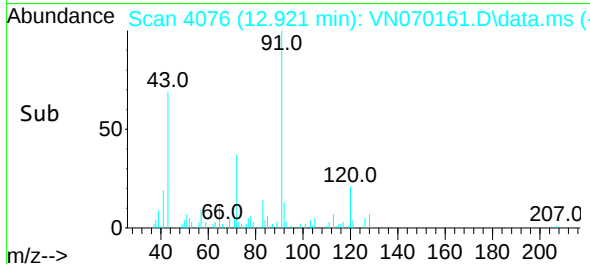
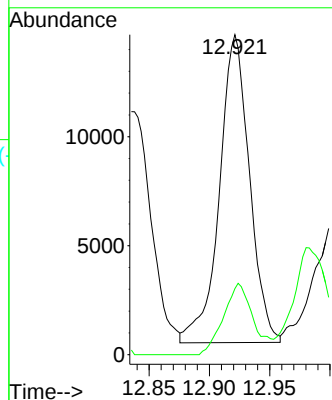
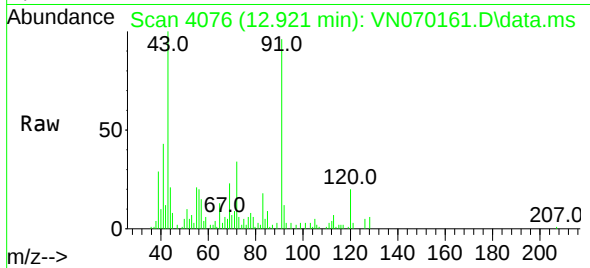




#74
n-propylbenzene
Concen: 0.359 ug/l
RT: 12.921 min Scan# 4076
Delta R.T. 0.003 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

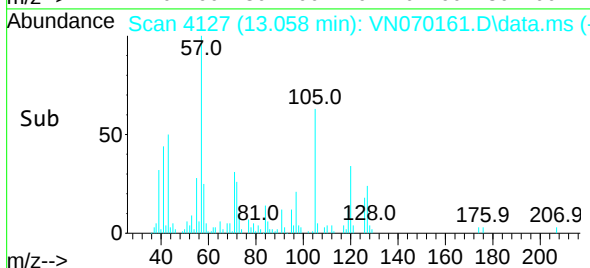
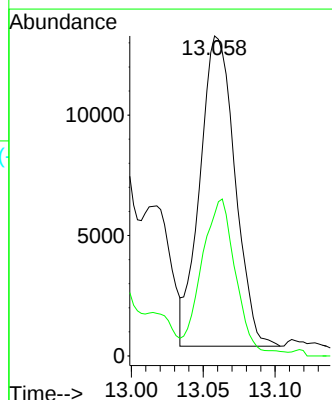
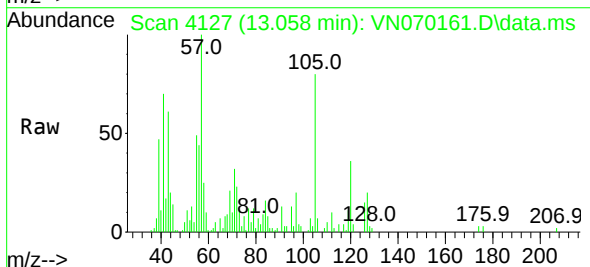
Instrument :
MSVOA_N
ClientSampleId :
211215028-VOA-02

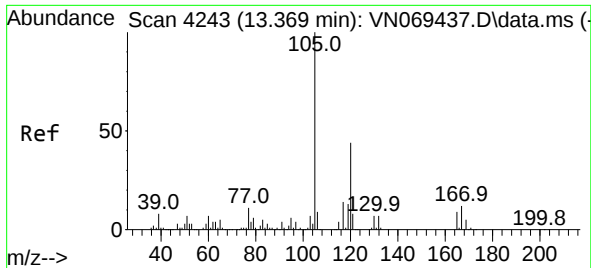
Tgt Ion: 91 Resp: 24548
Ion Ratio Lower Upper
91 100
120 21.1 0.0 45.0



#76
1,3,5-Trimethylbenzene
Concen: 0.451 ug/l
RT: 13.058 min Scan# 4127
Delta R.T. -0.000 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

Tgt Ion: 105 Resp: 21859
Ion Ratio Lower Upper
105 100
120 45.2 0.0 93.8

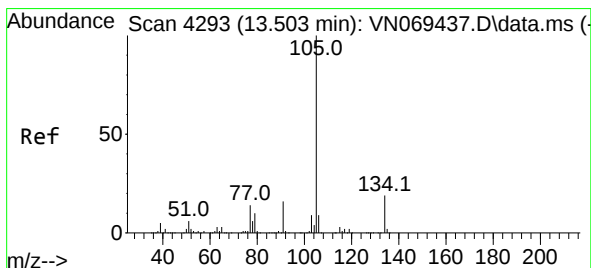
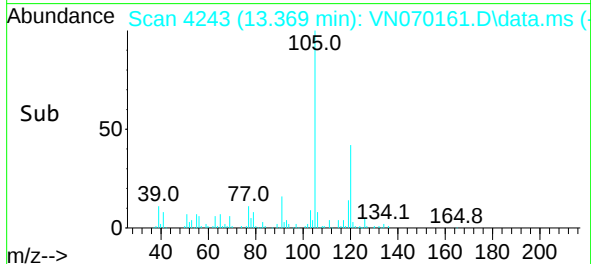
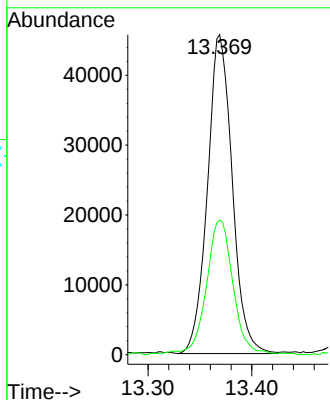
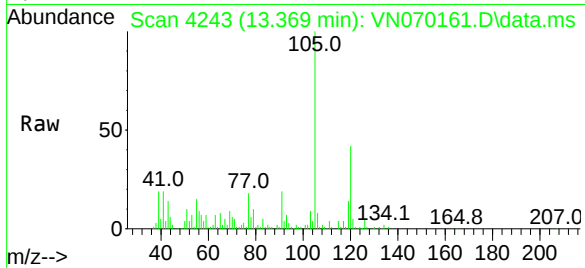




#80
1,2,4-Trimethylbenzene
Concen: 1.619 ug/l
RT: 13.369 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

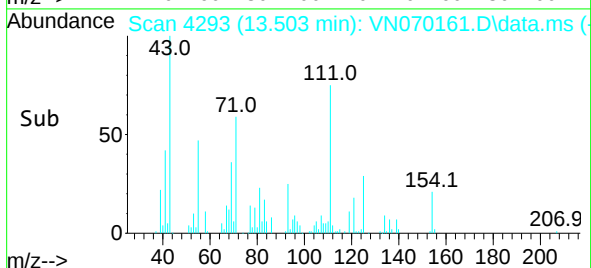
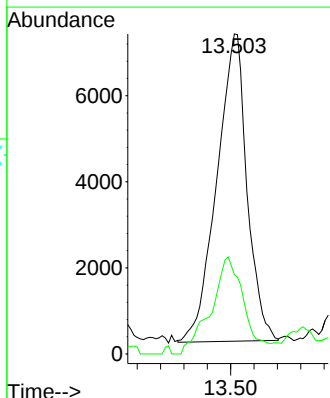
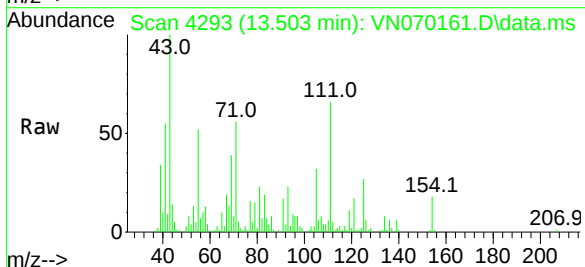
Instrument :
MSVOA_N
ClientSampleId :
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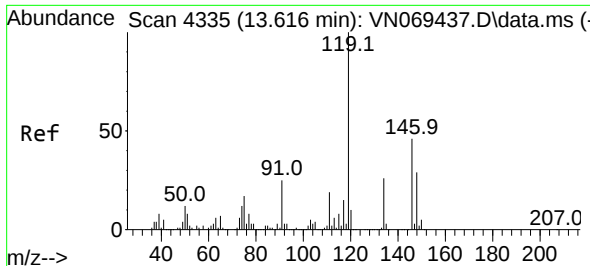
Tgt Ion:105 Resp: 75831
Ion Ratio Lower Upper
105 100
120 43.9 0.0 0.2#



#81
sec-Butylbenzene
Concen: 0.218 ug/l
RT: 13.503 min Scan# 4293
Delta R.T. 0.003 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

Tgt Ion:105 Resp: 12801
Ion Ratio Lower Upper
105 100
134 34.5 0.0 39.4

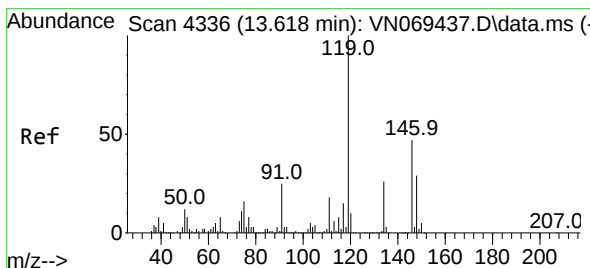
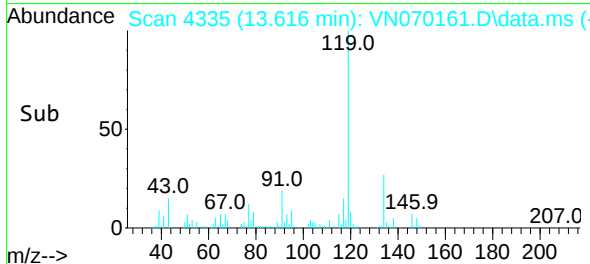
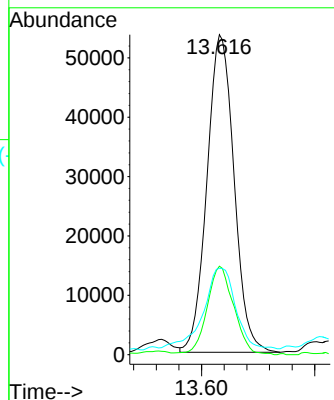
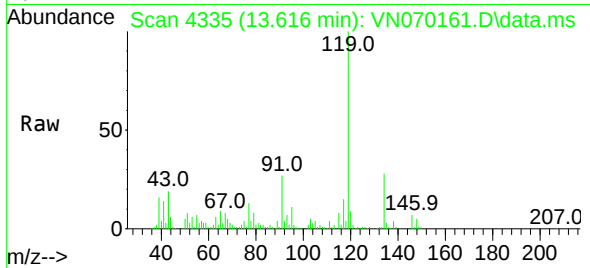




#82
 p-Isopropyltoluene
 Concen: 1.900 ug/l
 RT: 13.616 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VN070161.D
 Acq: 17 Dec 2021 13:50

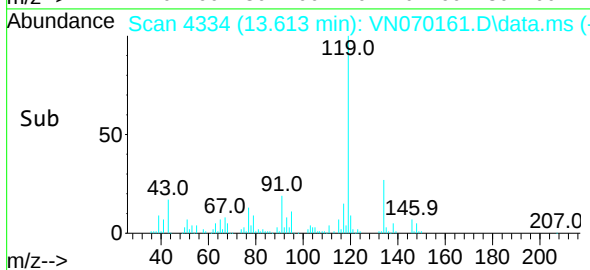
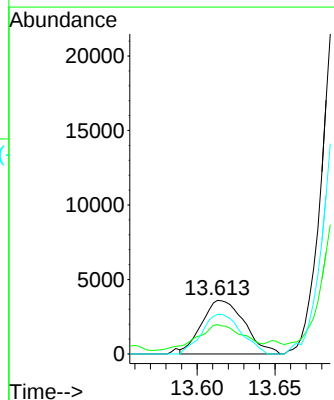
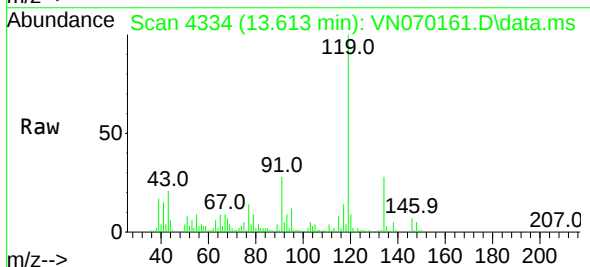
Instrument :
 MSVOA_N
 ClientSampleId :
 211215028-VOA-02

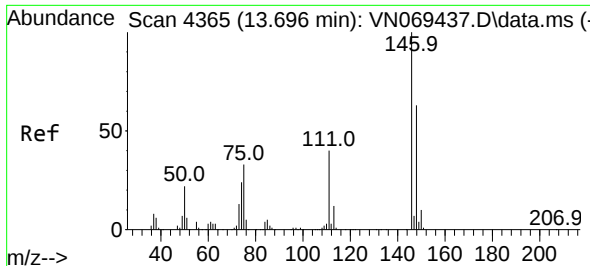
Tgt Ion:119 Resp: 88802
 Ion Ratio Lower Upper
 119 100
 134 27.3 0.0 51.8
 91 29.9 0.0 50.4



#83
 1,3-Dichlorobenzene
 Concen: 0.297 ug/l
 RT: 13.613 min Scan# 4334
 Delta R.T. -0.003 min
 Lab File: VN070161.D
 Acq: 17 Dec 2021 13:50

Tgt Ion:146 Resp: 6863
 Ion Ratio Lower Upper
 146 100
 111 49.5 20.8 62.2
 148 67.7 31.4 94.3

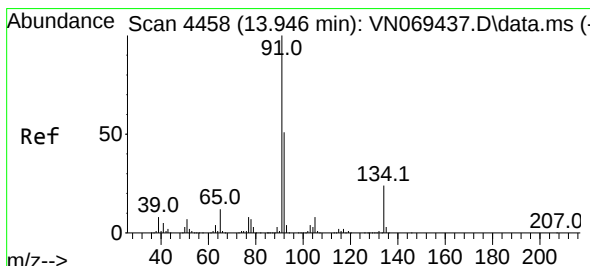
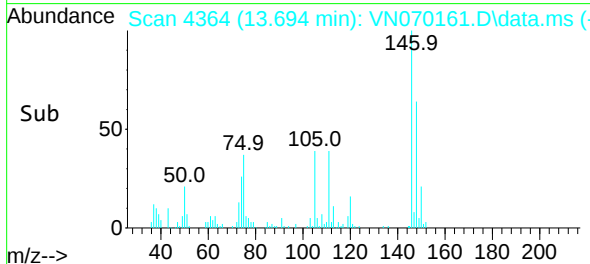
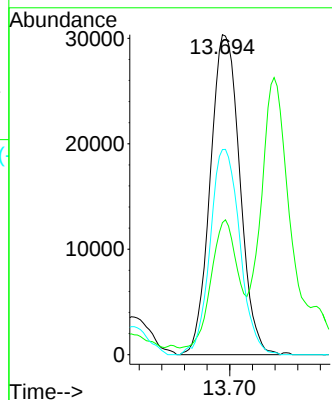
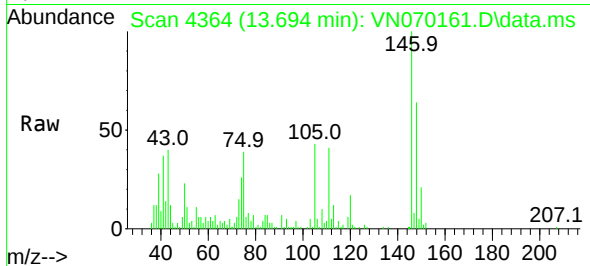




#84
1,4-Dichlorobenzene
Concen: 2.466 ug/l
RT: 13.694 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

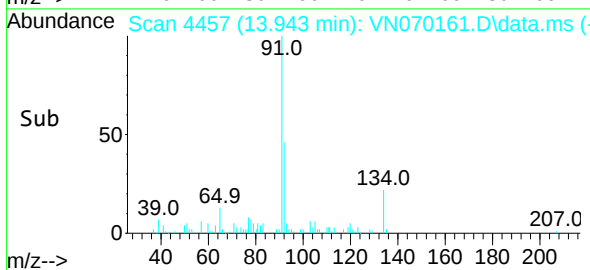
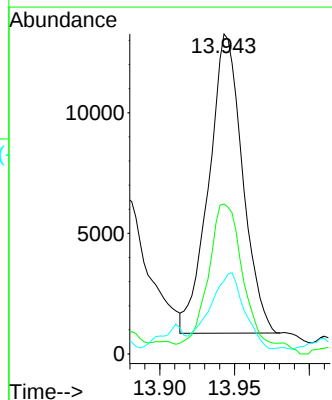
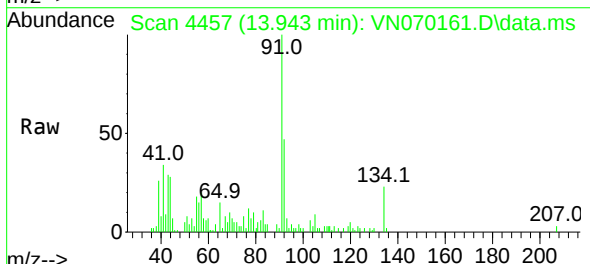
Instrument :
MSVOA_N
ClientSampleId :
211215028-VOA-02

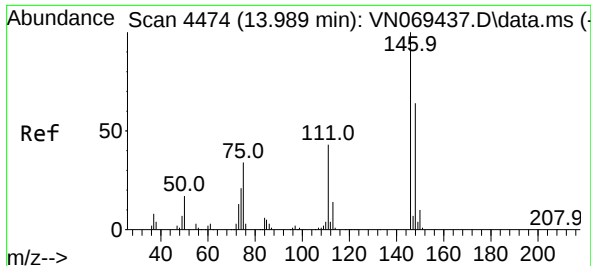
Tgt Ion:146 Resp: 54888
Ion Ratio Lower Upper
146 100
111 36.6 19.5 58.5
148 63.9 31.1 93.5



#85
n-Butylbenzene
Concen: 0.498 ug/l
RT: 13.943 min Scan# 4457
Delta R.T. -0.000 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

Tgt Ion: 91 Resp: 19440
Ion Ratio Lower Upper
91 100
92 45.6 0.0 100.6
134 25.9 0.0 50.2

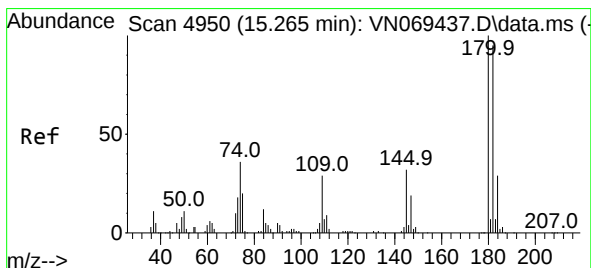
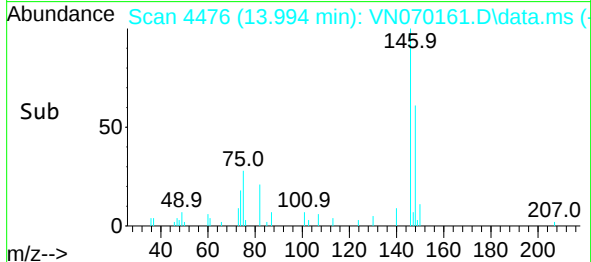
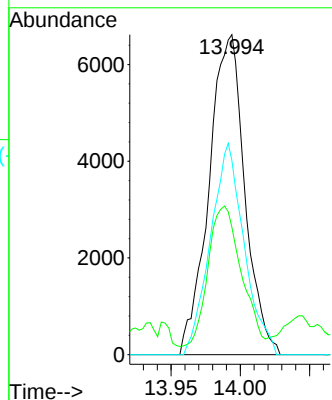
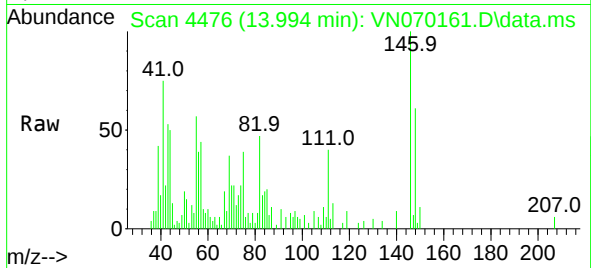




#87
1,2-Dichlorobenzene
Concen: 0.536 ug/l
RT: 13.994 min Scan# 4474
Delta R.T. 0.005 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

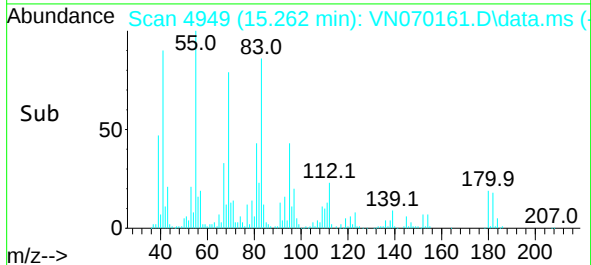
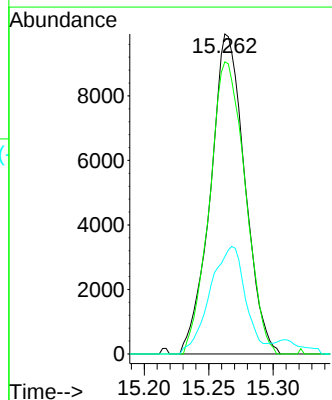
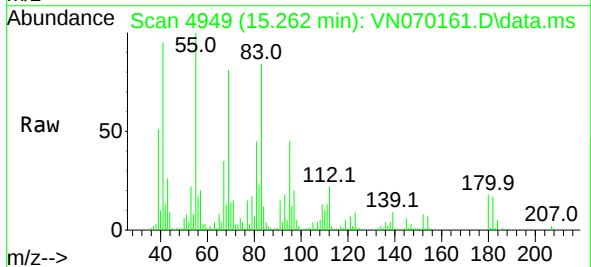
Instrument :
MSVOA_N
ClientSampleId :
211215028-VOA-02

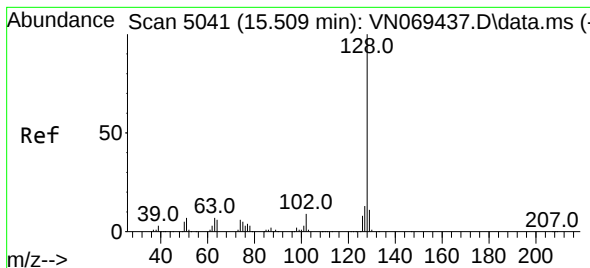
Tgt Ion:146 Resp: 11921
Ion Ratio Lower Upper
146 100
111 40.4 21.4 64.2
148 61.9 32.5 97.4



#89
1,2,4-Trichlorobenzene
Concen: 1.773 ug/l
RT: 15.262 min Scan# 4949
Delta R.T. -0.000 min
Lab File: VN070161.D
Acq: 17 Dec 2021 13:50

Tgt Ion:180 Resp: 18341
Ion Ratio Lower Upper
180 100
182 94.7 77.7 116.5
145 34.7 26.6 39.8





#91

Naphthalene

Concen: 35.224 ug/l

RT: 15.507 min Scan# 5041

Delta R.T. 0.003 min

Lab File: VN070161.D

Acq: 17 Dec 2021 13:50

Instrument :

MSVOA_N

ClientSampleId :

211215028-VOA-02

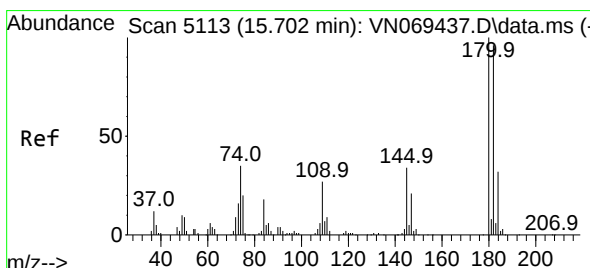
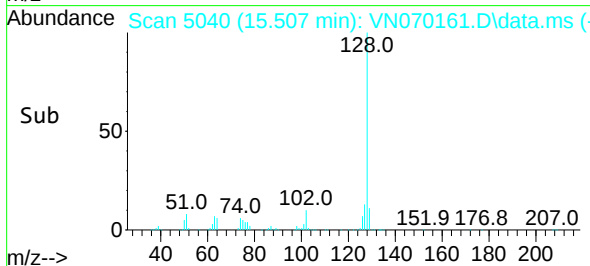
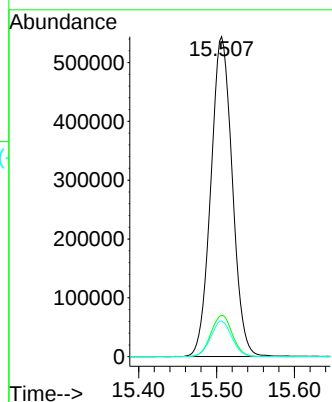
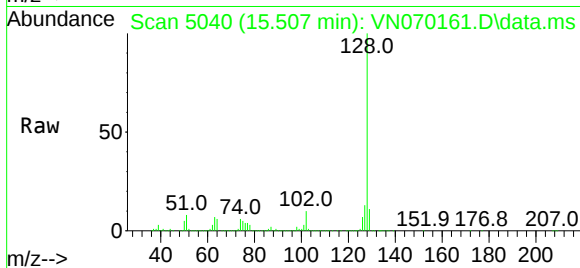
Tgt Ion:128 Resp: 1039503

Ion Ratio Lower Upper

128 100

127 13.0 10.7 16.1

129 11.1 9.0 13.6



#92

1,2,3-Trichlorobenzene

Concen: 2.131 ug/l

RT: 15.705 min Scan# 5114

Delta R.T. 0.005 min

Lab File: VN070161.D

Acq: 17 Dec 2021 13:50

Tgt Ion:180 Resp: 20823

Ion Ratio Lower Upper

180 100

182 100.0 0.0 190.0

145 31.1 0.0 67.8

