

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112621\
 Data File : VN069654.D
 Acq On : 26 Nov 2021 13:03
 Operator : JC/MD
 Sample : M4838-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 29 00:17:21 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 10 14:36:17 2021
 Response via : Initial Calibration

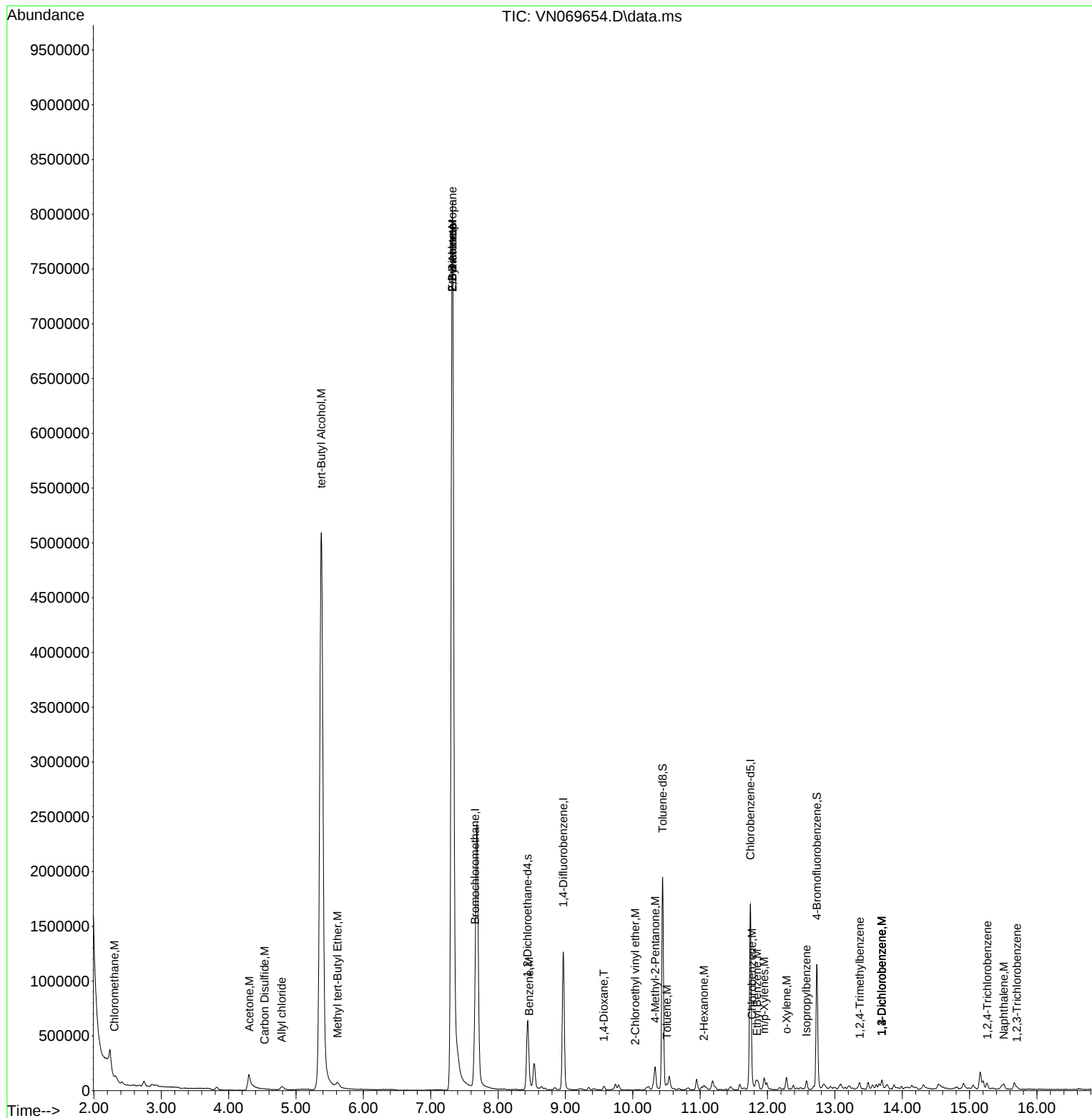
Compound	R.T. QIon		Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.659	128	190514	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	1066922	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	931581	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	521694	31.574	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 105.233%	
60) 4-Bromofluorobenzene	12.733	95	403144	27.042	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 90.133%	
63) Toluene-d8	10.443	98	1302777	30.287	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 100.967%	
Target Compounds						Qvalue
3) Chloromethane	2.303	50	2976	0.203	ug/l	94
15) Acetone	4.307	58	92070	36.938	ug/l #	1
16) Carbon Disulfide	4.532	76	6137	0.258	ug/l #	75
17) Allyl chloride	4.789	41	57347	2.834	ug/l #	29
23) tert-Butyl Alcohol	5.377	59	9280825	3564.887	ug/l #	100
24) Methyl tert-Butyl Ether	5.615	73	54975	1.441	ug/l #	55
30) 2-Butanone	7.324	43	487933	41.390	ug/l #	74
31) 2,2-Dichloropropane	7.321	77	536355	31.151	ug/l #	53
34) Benzene	8.461	78	43526	0.879	ug/l #	1
43) Ethyl Acetate	7.324	43	487933	22.334	ug/l #	1
45) 1,4-Dioxane	9.569	88	22887	82.779	ug/l	89
55) 2-Chloroethyl vinyl ether	10.038	63	1062	0.223	ug/l #	66
58) 4-Methyl-2-Pentanone	10.333	43	166464	8.140	ug/l #	88
59) 2-Hexanone	11.057	43	48038	3.088	ug/l #	37
62) Toluene	10.507	91	23669	0.462	ug/l	99
64) Chlorobenzene	11.771	112	16389	0.534	ug/l	97
66) Ethyl Benzene	11.846	91	36489	0.644	ug/l	94
67) m/p-Xylenes	11.953	106	32869	1.562	ug/l	93
68) o-Xylene	12.283	106	23614	1.121	ug/l	90
70) Isopropylbenzene	12.578	105	44966	0.816	ug/l	98
80) 1,2,4-Trimethylbenzene	13.369	105	26065	0.591	ug/l #	82
83) 1,3-Dichlorobenzene	13.696	146	24976	1.150	ug/l	98
84) 1,4-Dichlorobenzene	13.696	146	24976	1.185	ug/l	97
87) 1,2-Dichlorobenzene	13.696	146	24976	1.191	ug/l	96
89) 1,2,4-Trichlorobenzene	15.265	180	4655	0.463	ug/l	99
91) Naphthalene	15.507	128	39985	1.381	ug/l #	91
92) 1,2,3-Trichlorobenzene	15.702	180	6556	0.664	ug/l	94

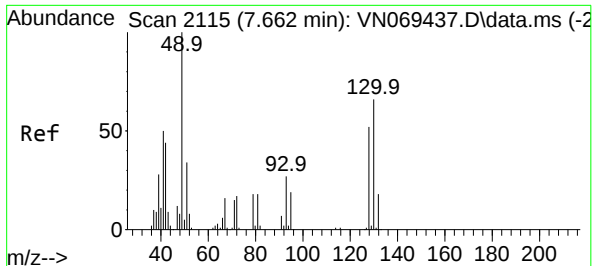
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111021W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Nov 10 14:36:17 2021
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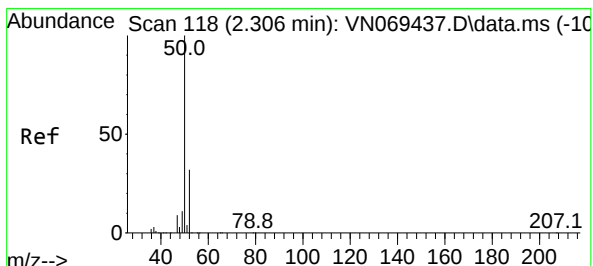
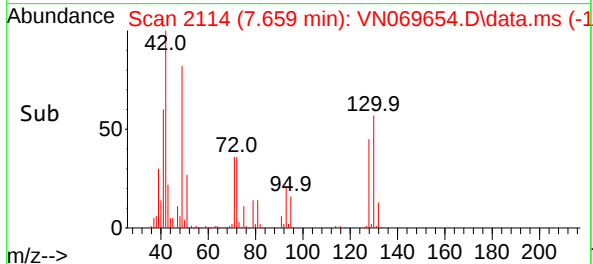
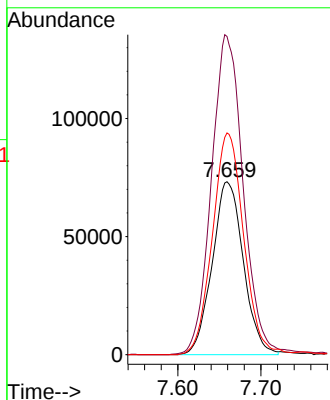
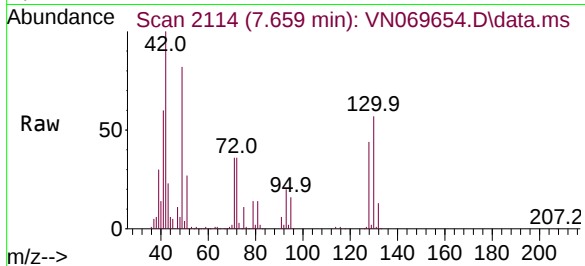




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.659 min Scan# 2115
Delta R.T. -0.003 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

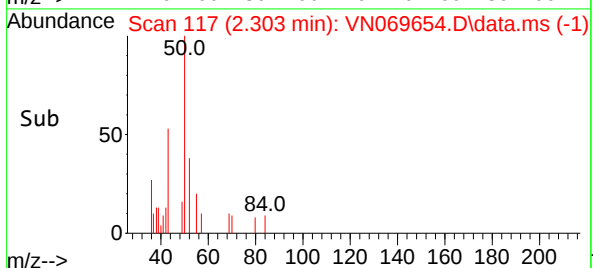
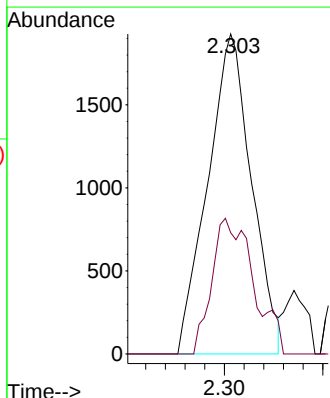
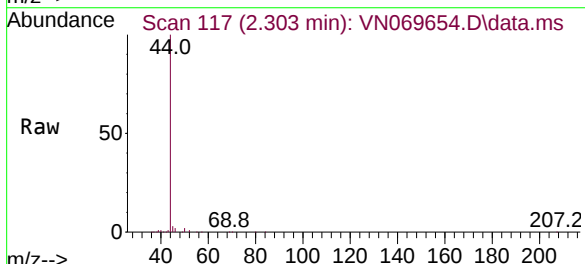
Instrument :
MSVOA_N
ClientSampleId :

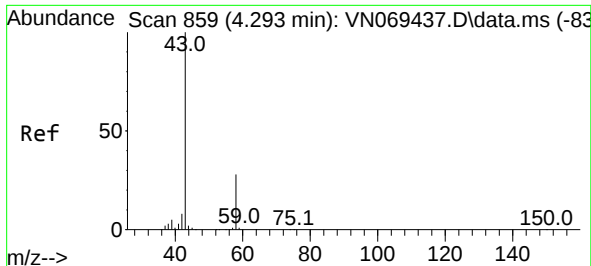
Tgt Ion:128 Resp: 190514
Ion Ratio Lower Upper
128 100
49 189.4 0.0 392.3
130 127.9 0.0 320.2



#3
Chloromethane
Concen: 0.203 ug/l
RT: 2.303 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

Tgt Ion: 50 Resp: 2976
Ion Ratio Lower Upper
50 100
52 37.9 27.8 41.6

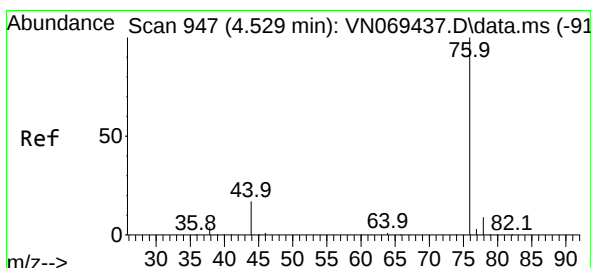
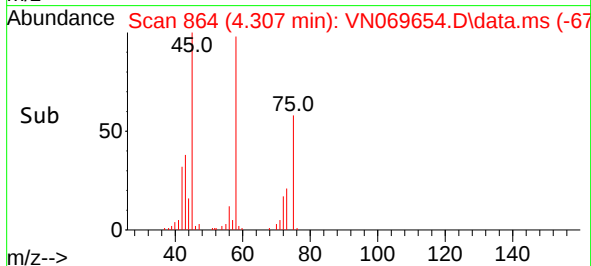
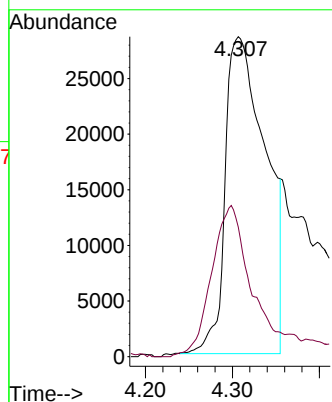
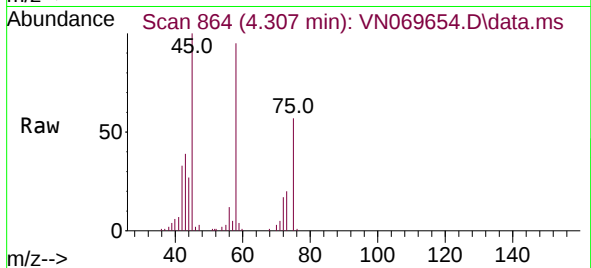




#15
Acetone
Concen: 36.938 ug/l
RT: 4.307 min Scan# 80
Delta R.T. 0.019 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

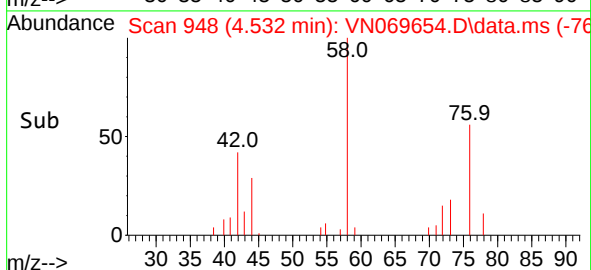
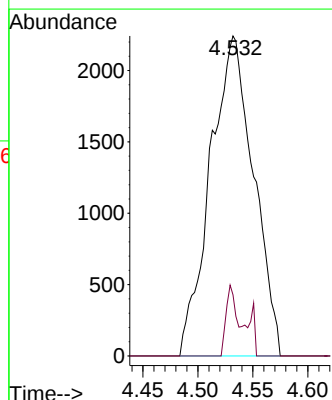
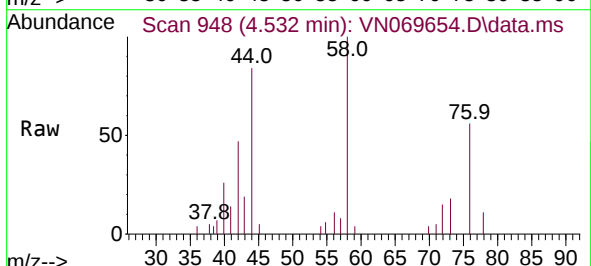
Instrument :
MSVOA_N
ClientSampleId :

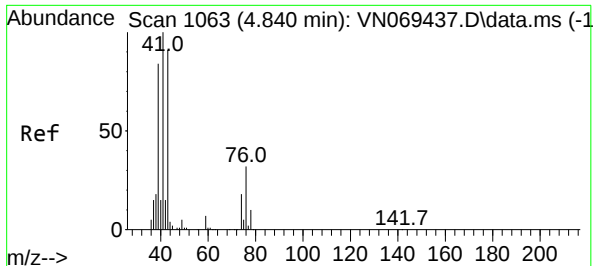
Tgt Ion: 58 Resp: 92070
Ion Ratio Lower Upper
58 100
43 39.7 256.6 384.8#



#16
Carbon Disulfide
Concen: 0.258 ug/l
RT: 4.532 min Scan# 948
Delta R.T. -0.005 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

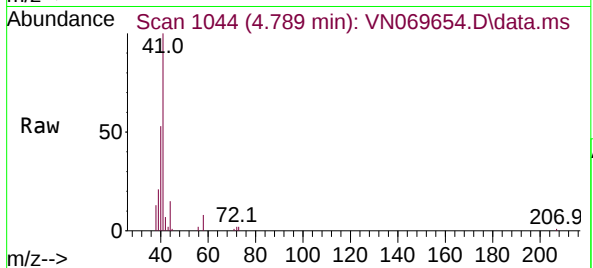
Tgt Ion: 76 Resp: 6137
Ion Ratio Lower Upper
76 100
78 19.1 7.8 11.8#



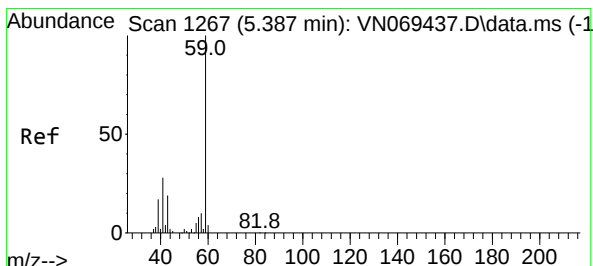
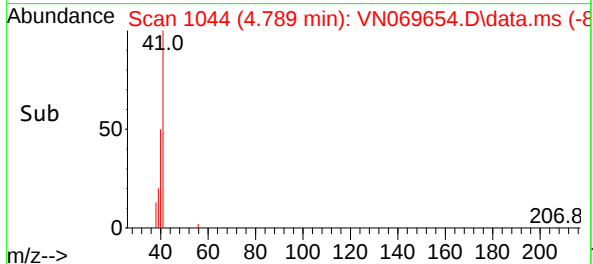
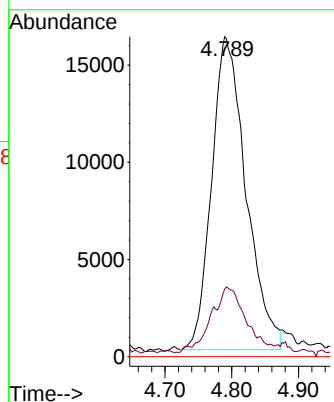


#17
 Allyl chloride
 Concen: 2.834 ug/l
 RT: 4.789 min Scan# 1063
 Delta R.T. -0.056 min
 Lab File: VN069654.D
 Acq: 26 Nov 2021 13:03

Instrument :
 MSVOA_N
 ClientSampleId :

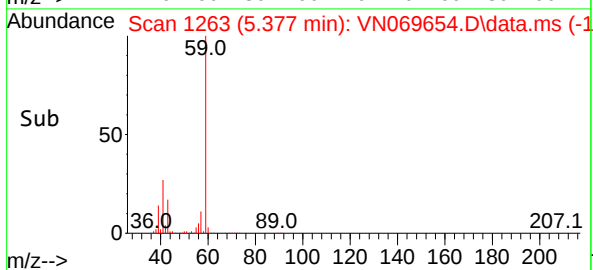
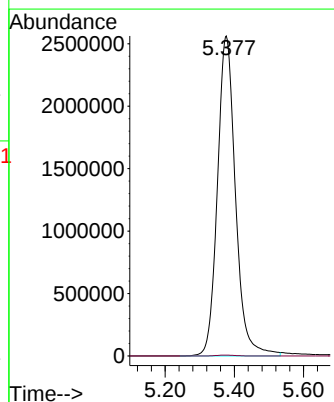
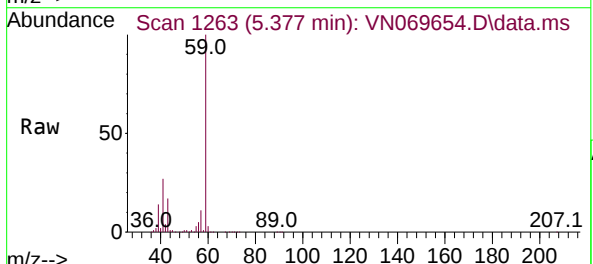


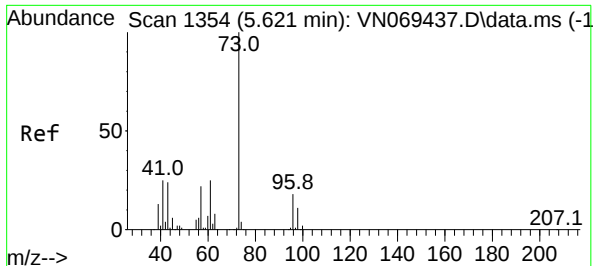
Tgt Ion: 41 Resp: 57347
 Ion Ratio Lower Upper
 41 100
 39 20.2 44.6 134.0#
 76 0.0 19.6 58.7#



#23
 tert-Butyl Alcohol
 Concen: 3564.887 ug/l
 RT: 5.377 min Scan# 1263
 Delta R.T. 0.011 min
 Lab File: VN069654.D
 Acq: 26 Nov 2021 13:03

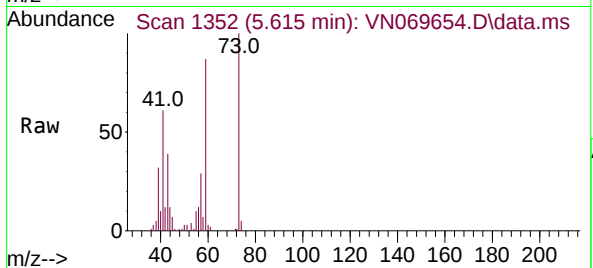
Tgt Ion: 59 Resp: 9280825
 Ion Ratio Lower Upper
 59 100
 52 0.1 0.0 0.0#



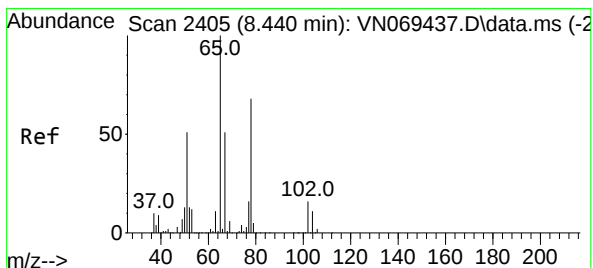
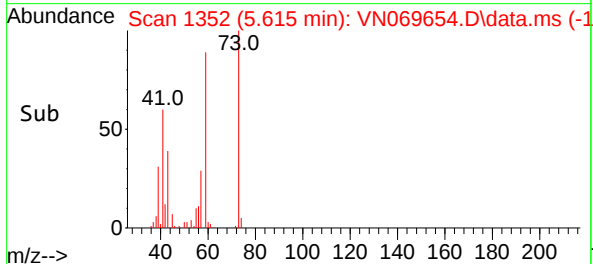
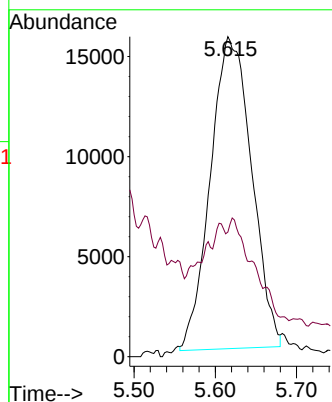


#24
Methyl tert-Butyl Ether
Concen: 1.441 ug/l
RT: 5.615 min Scan# 11
Delta R.T. -0.005 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

Instrument :
MSVOA_N
ClientSampleId :

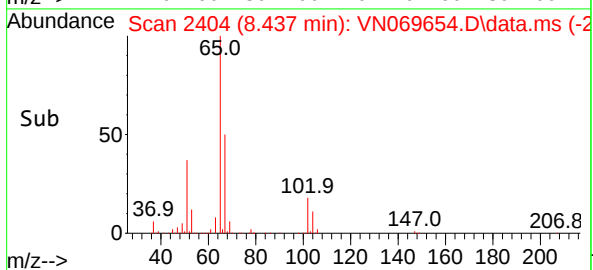
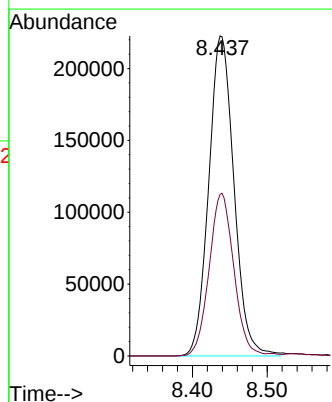
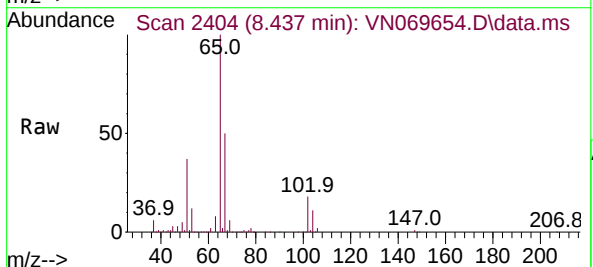


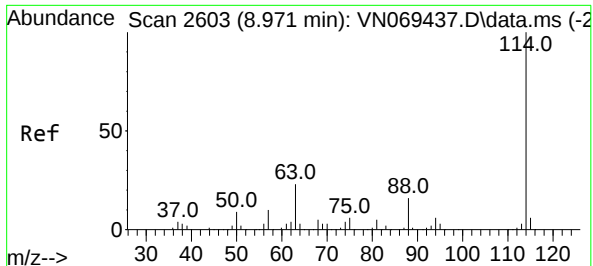
Tgt Ion: 73 Resp: 54975
Ion Ratio Lower Upper
73 100
43 1.1 18.1 27.1#



#27
1,2-Dichloroethane-d4
Concen: 31.574 ug/l
RT: 8.437 min Scan# 2404
Delta R.T. -0.003 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

Tgt Ion: 65 Resp: 521694
Ion Ratio Lower Upper
65 100
67 49.6 40.2 60.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.968 min Scan# 2

Delta R.T. -0.003 min

Lab File: VN069654.D

Acq: 26 Nov 2021 13:03

Instrument :

MSVOA_N

ClientSampleId :

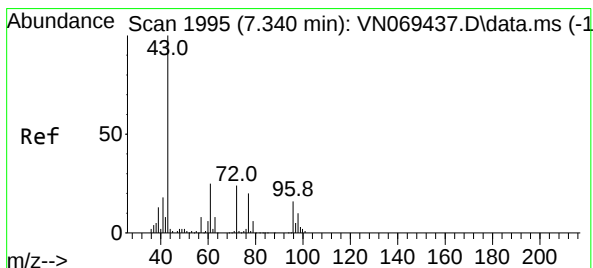
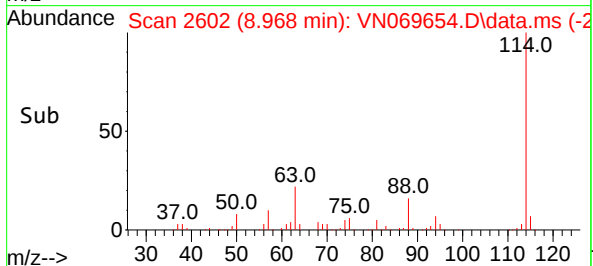
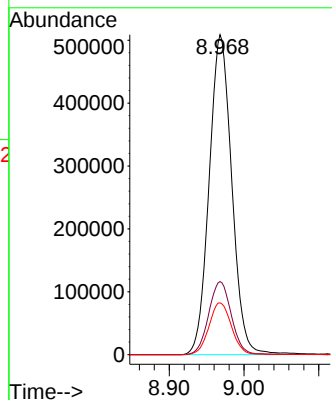
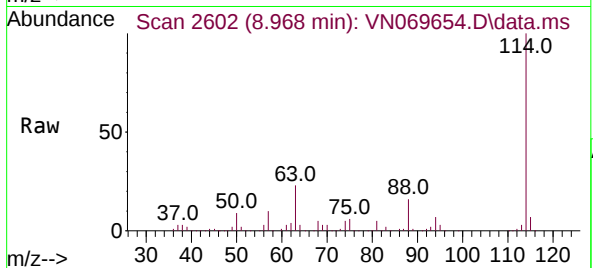
Tgt Ion:114 Resp: 1066922

Ion Ratio Lower Upper

114 100

63 22.8 15.8 23.6

88 16.2 11.6 17.4



#30

2-Butanone

Concen: 41.390 ug/l

RT: 7.324 min Scan# 1989

Delta R.T. -0.013 min

Lab File: VN069654.D

Acq: 26 Nov 2021 13:03

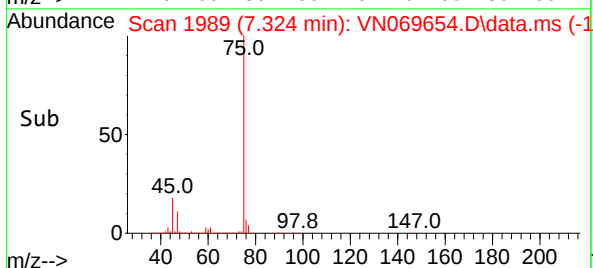
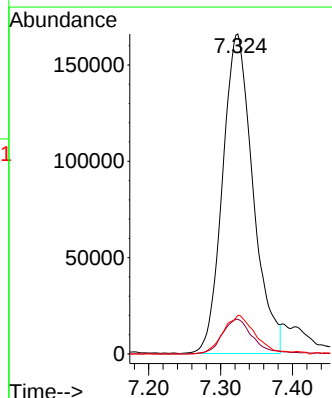
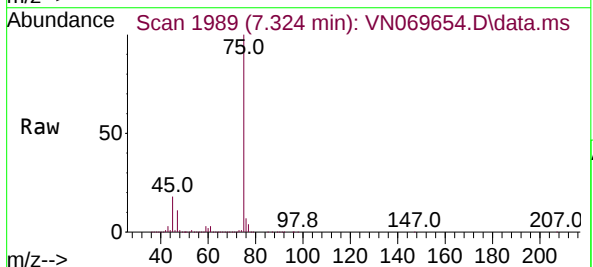
Tgt Ion: 43 Resp: 487933

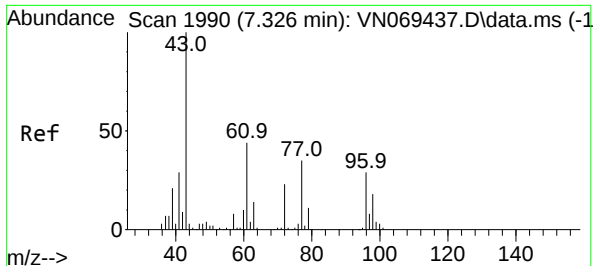
Ion Ratio Lower Upper

43 100

57 11.0 6.7 10.1#

72 12.5 23.2 34.8#





#31

2,2-Dichloropropane

Concen: 31.151 ug/l

RT: 7.321 min Scan# 1990

Delta R.T. -0.008 min

Lab File: VN069654.D

Acq: 26 Nov 2021 13:03

Instrument :

MSVOA_N

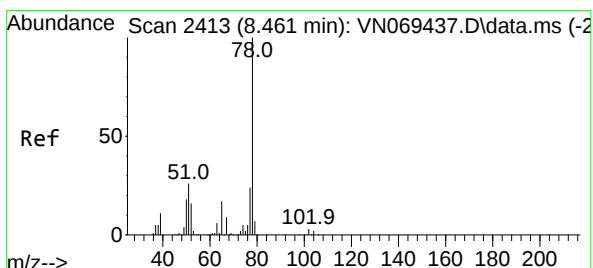
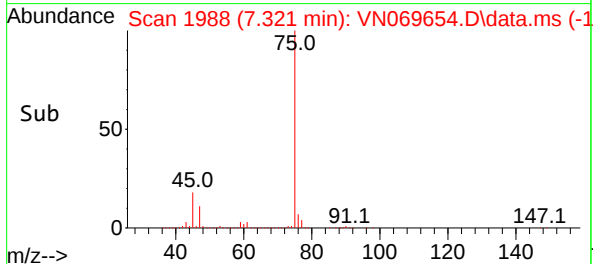
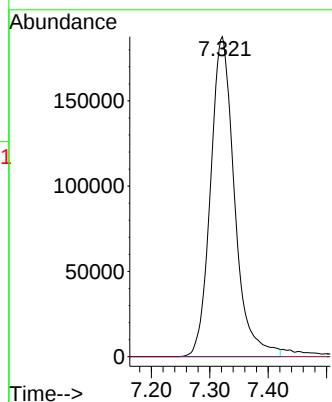
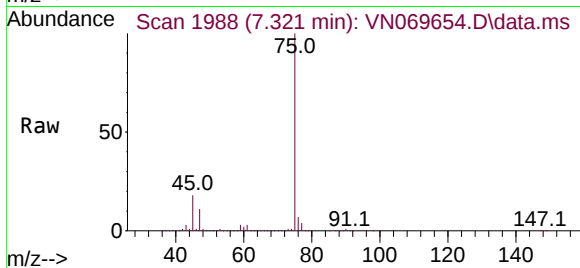
ClientSampleId :

Tgt Ion: 77 Resp: 536355

Ion Ratio Lower Upper

77 100

97 0.0 18.3 27.5#



#34

Benzene

Concen: 0.879 ug/l

RT: 8.461 min Scan# 2413

Delta R.T. 0.000 min

Lab File: VN069654.D

Acq: 26 Nov 2021 13:03

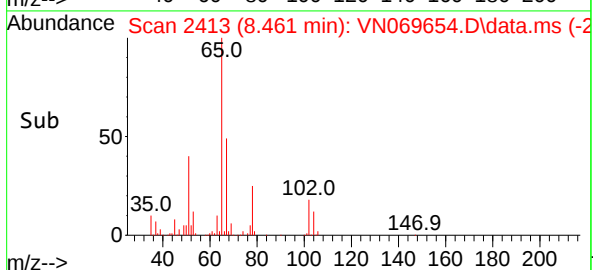
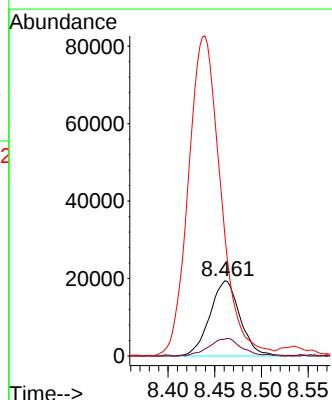
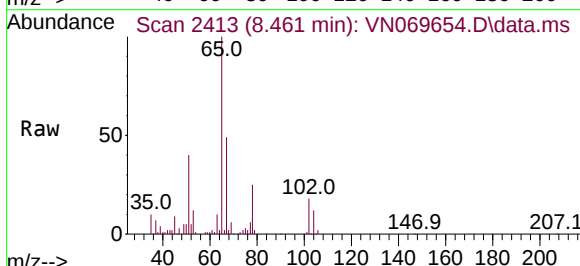
Tgt Ion: 78 Resp: 43526

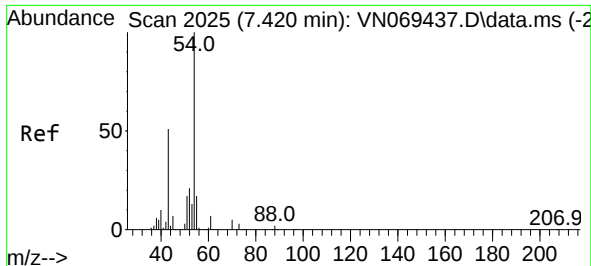
Ion Ratio Lower Upper

78 100

77 21.5 19.1 28.7

51 148.3 16.0 24.0#

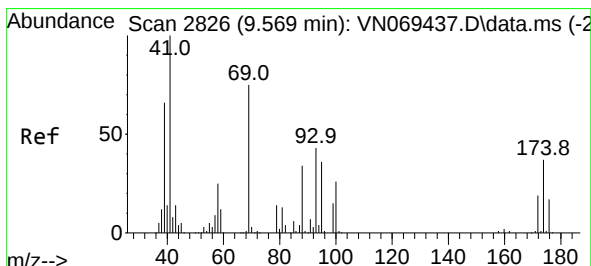
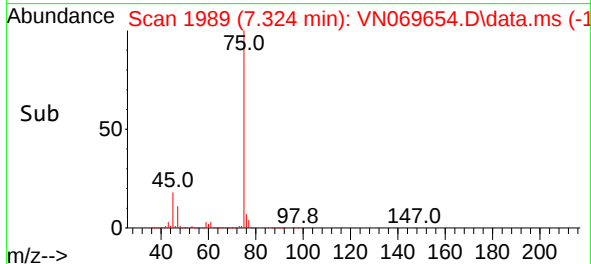
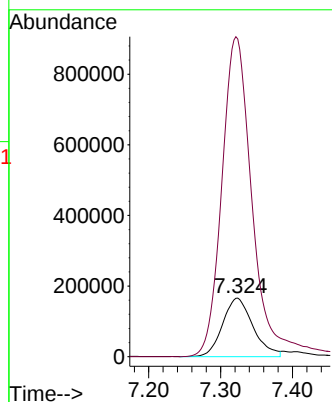
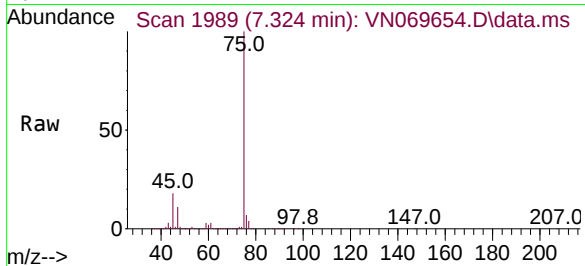




#43
Ethyl Acetate
Concen: 22.334 ug/l
RT: 7.324 min Scan# 1989
Delta R.T. -0.089 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

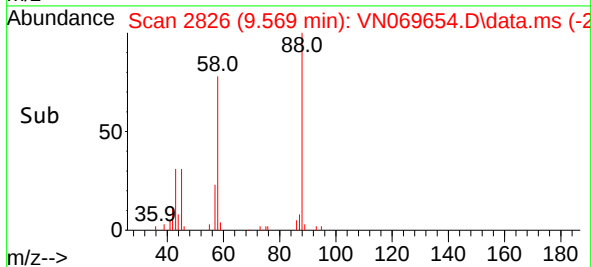
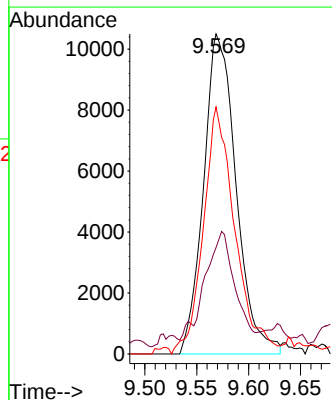
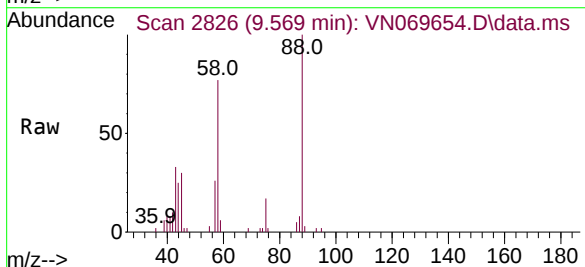
Instrument :
MSVOA_N
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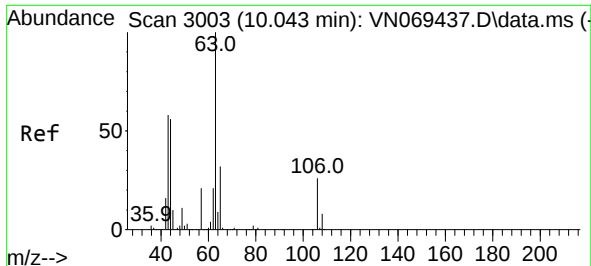
Tgt Ion: 43 Resp: 487933
Ion Ratio Lower Upper
43 100
45 556.8 10.6 16.0#



#45
1,4-Dioxane
Concen: 82.779 ug/l
RT: 9.569 min Scan# 2826
Delta R.T. 0.000 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

Tgt Ion: 88 Resp: 22887
Ion Ratio Lower Upper
88 100
43 26.3 25.0 37.6
58 71.6 49.4 74.2

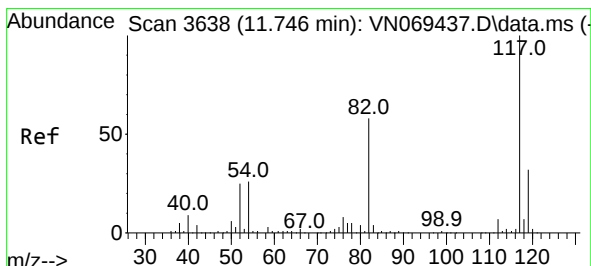
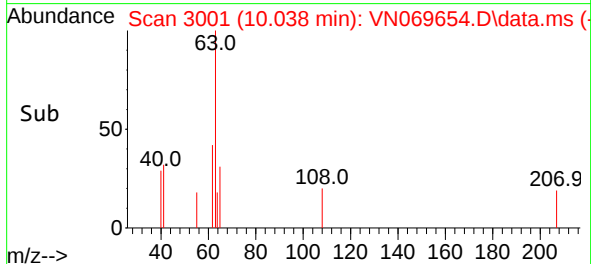
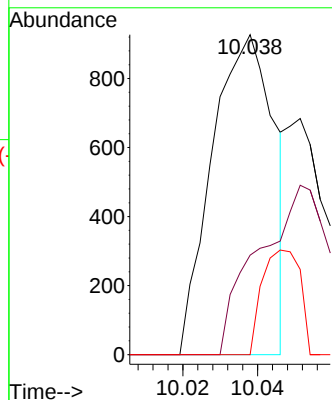
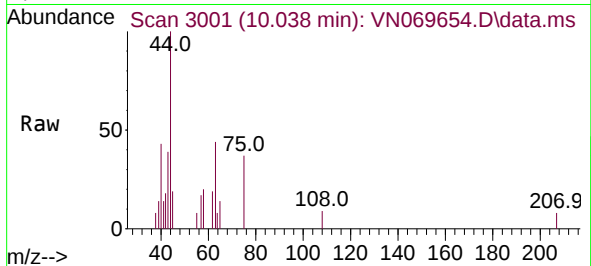




#55
2-Chloroethyl vinyl ether
Concen: 0.223 ug/l
RT: 10.038 min Scan# 3001
Delta R.T. -0.005 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

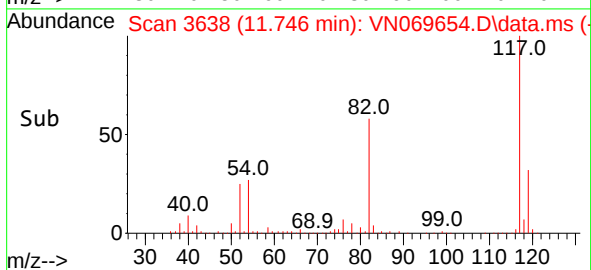
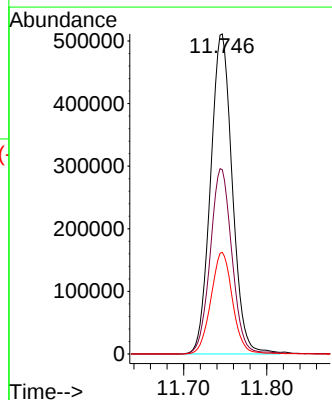
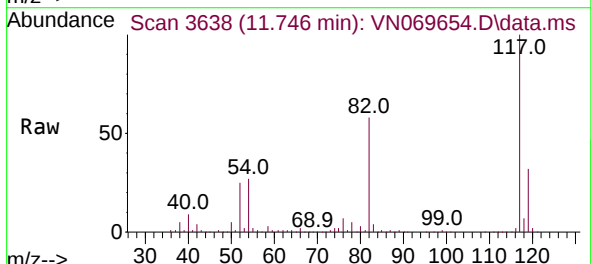
Instrument :
MSVOA_N
ClientSampleId :

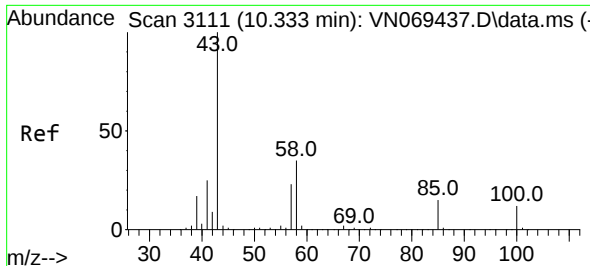
Tgt Ion: 63 Resp: 1062
Ion Ratio Lower Upper
63 100
65 59.1 25.4 38.0#
106 20.1 23.2 34.8#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

Tgt Ion: 117 Resp: 931581
Ion Ratio Lower Upper
117 100
82 58.1 43.6 65.4
119 31.5 25.8 38.6

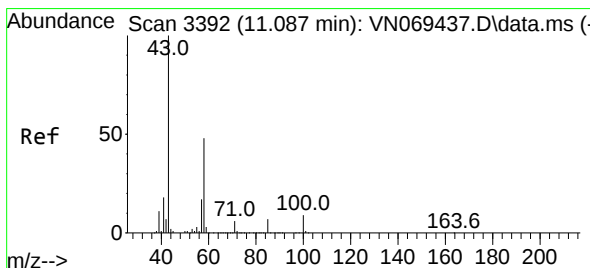
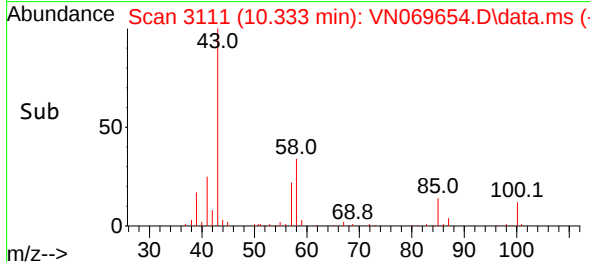
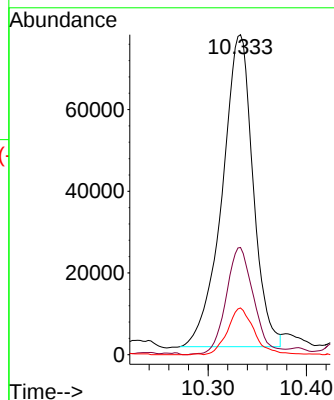
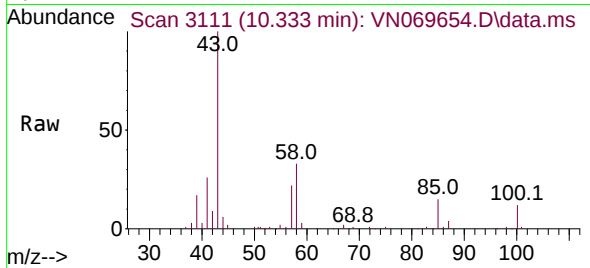




#58
4-Methyl-2-Pentanone
Concen: 8.140 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.003 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

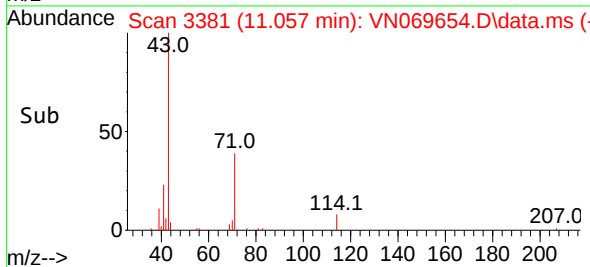
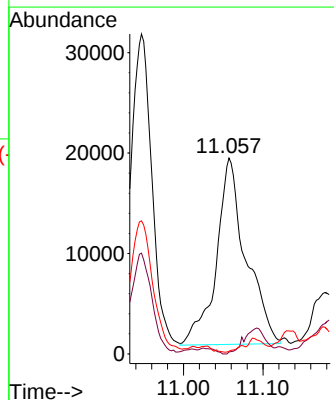
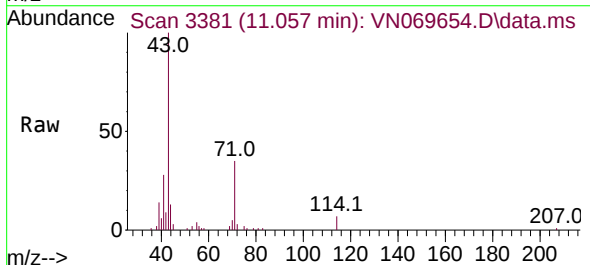
Instrument :
MSVOA_N
ClientSampleId :

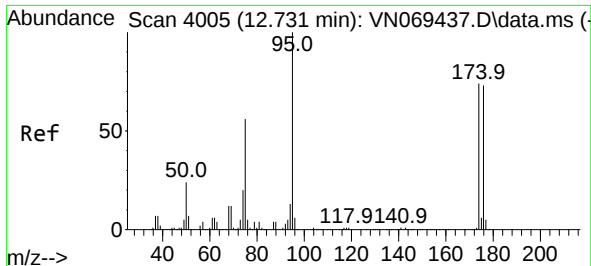
Tgt Ion: 43 Resp: 166464
Ion Ratio Lower Upper
43 100
58 30.8 30.0 45.0
85 12.9 15.0 22.6#



#59
2-Hexanone
Concen: 3.088 ug/l
RT: 11.057 min Scan# 3381
Delta R.T. -0.030 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

Tgt Ion: 43 Resp: 48038
Ion Ratio Lower Upper
43 100
58 1.8 42.2 63.2#
57 1.2 15.0 22.4#

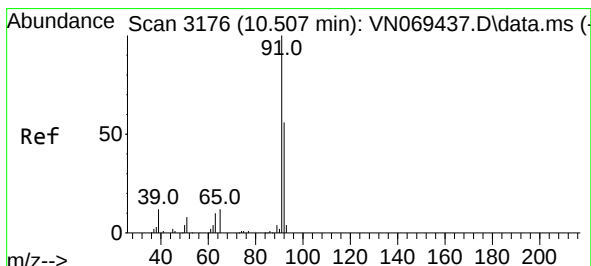
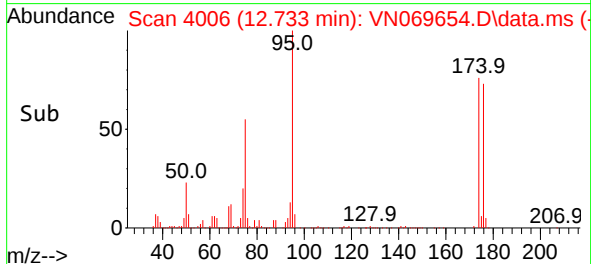
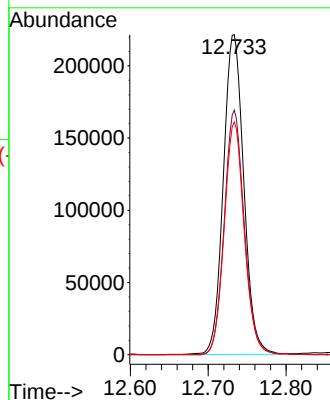
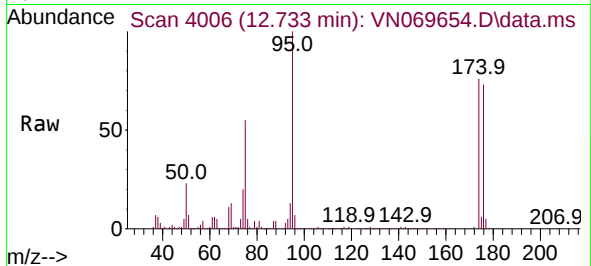




#60
4-Bromofluorobenzene
Concen: 27.042 ug/l
RT: 12.733 min Scan# 4005
Delta R.T. 0.000 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

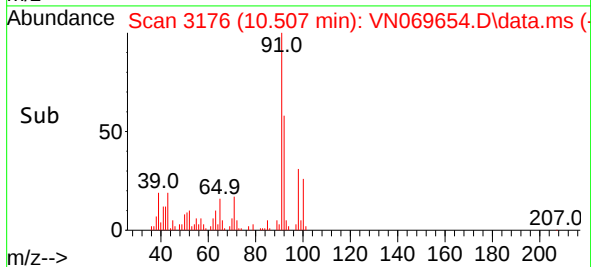
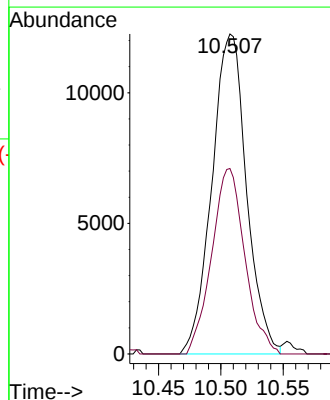
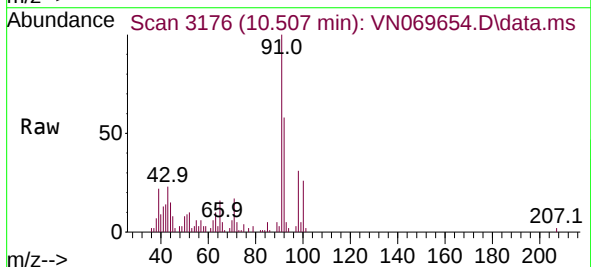
Instrument :
MSVOA_N
ClientSampleId :

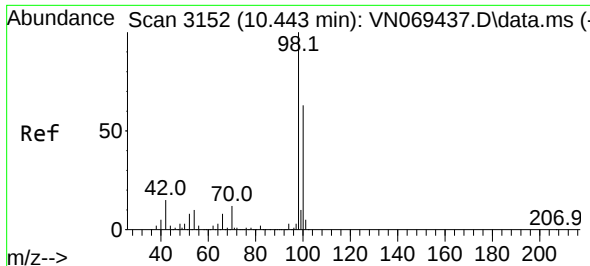
Tgt Ion: 95 Resp: 403144
Ion Ratio Lower Upper
95 100
174 74.8 62.9 94.3
176 71.2 61.0 91.4



#62
Toluene
Concen: 0.462 ug/l
RT: 10.507 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

Tgt Ion: 91 Resp: 23669
Ion Ratio Lower Upper
91 100
92 55.4 44.6 67.0

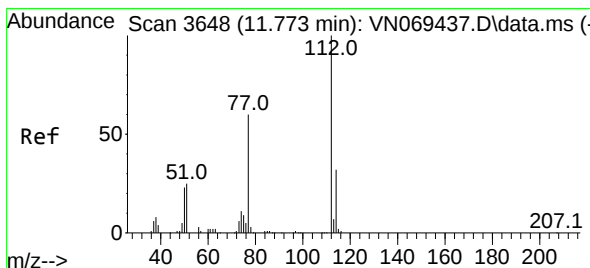
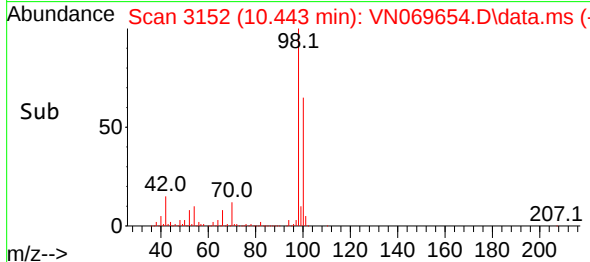
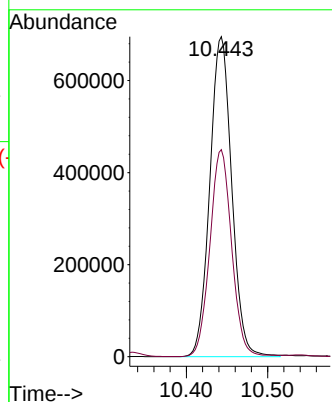
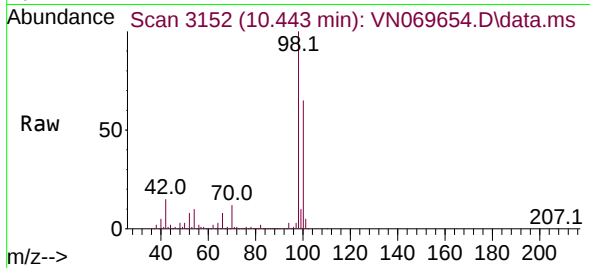




#63
Toluene-d8
Concen: 30.287 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

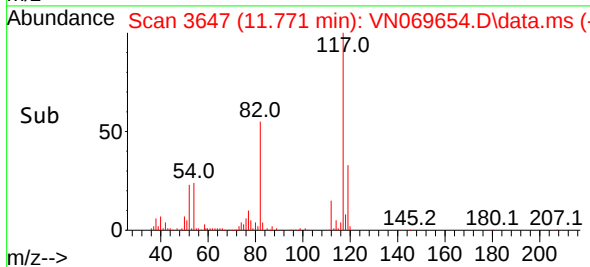
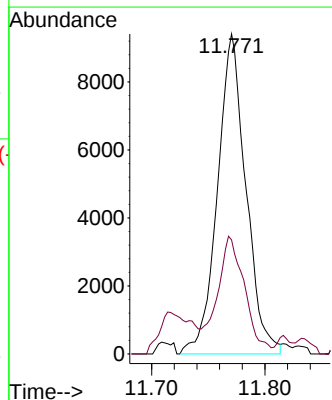
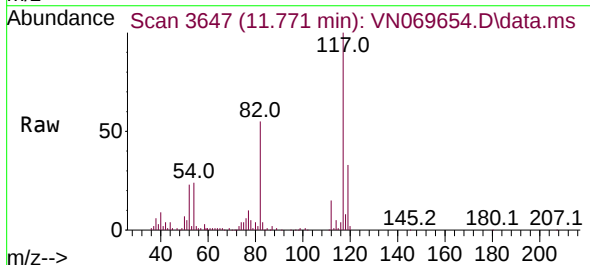
Instrument :
MSVOA_N
ClientSampleId :

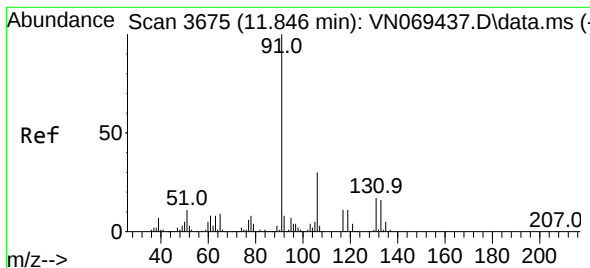
Tgt Ion: 98 Resp: 1302777
Ion Ratio Lower Upper
98 100
100 64.2 50.6 76.0



#64
Chlorobenzene
Concen: 0.534 ug/l
RT: 11.771 min Scan# 3647
Delta R.T. -0.003 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

Tgt Ion: 112 Resp: 16389
Ion Ratio Lower Upper
112 100
114 30.6 25.8 38.6





#66

Ethyl Benzene

Concen: 0.644 ug/l

RT: 11.846 min Scan# 3675

Delta R.T. -0.003 min

Lab File: VN069654.D

Acq: 26 Nov 2021 13:03

Instrument :

MSVOA_N

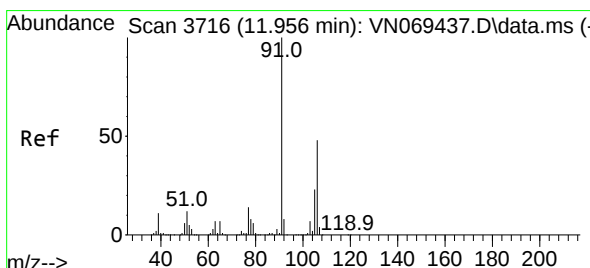
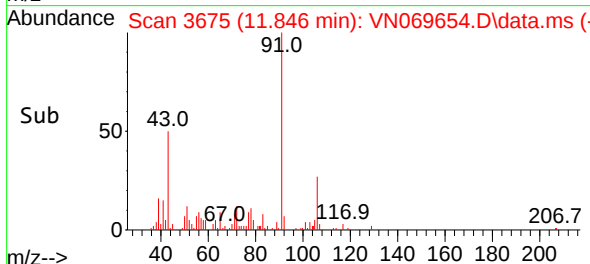
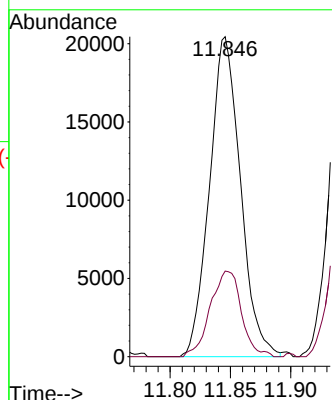
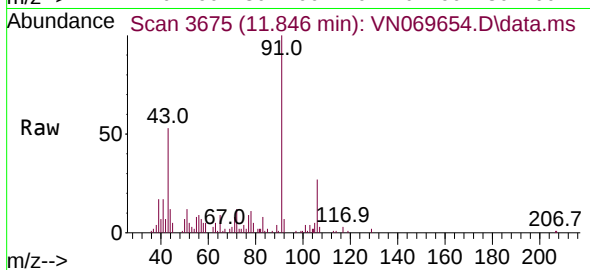
ClientSampleId :

Tgt Ion: 91 Resp: 36489

Ion Ratio Lower Upper

91 100

106 26.7 24.0 36.0



#67

m/p-Xylenes

Concen: 1.562 ug/l

RT: 11.953 min Scan# 3715

Delta R.T. -0.003 min

Lab File: VN069654.D

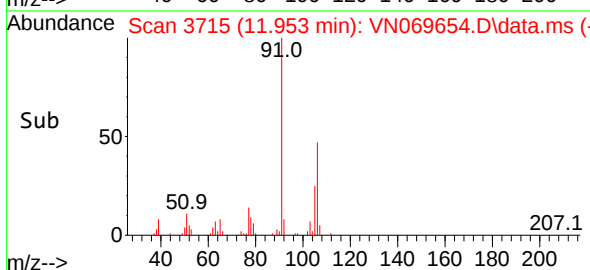
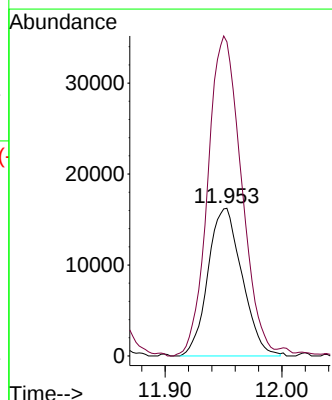
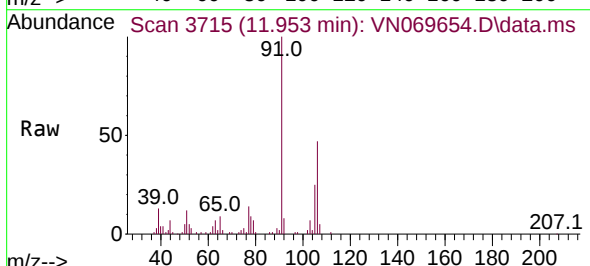
Acq: 26 Nov 2021 13:03

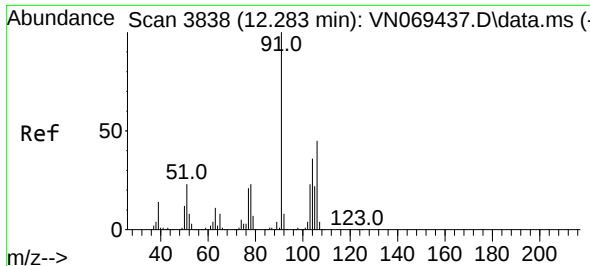
Tgt Ion:106 Resp: 32869

Ion Ratio Lower Upper

106 100

91 214.2 162.9 244.3

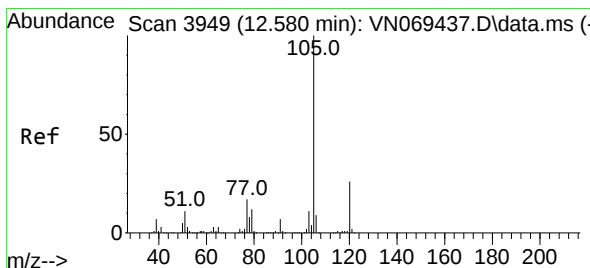
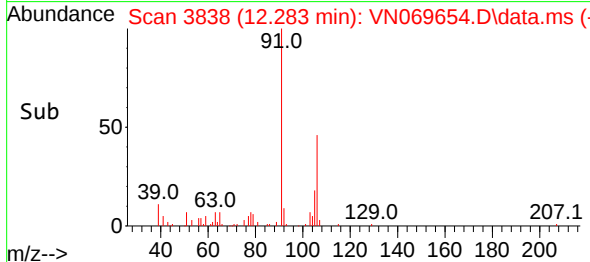
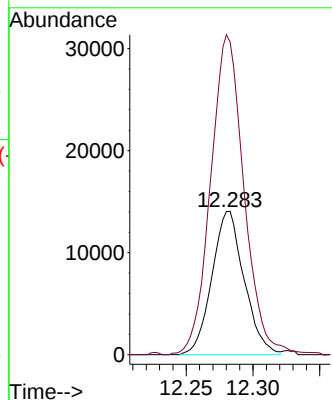
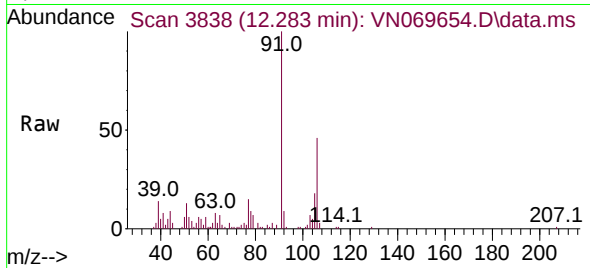




#68
o-Xylene
Concen: 1.121 ug/l
RT: 12.283 min Scan# 3838
Delta R.T. 0.000 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

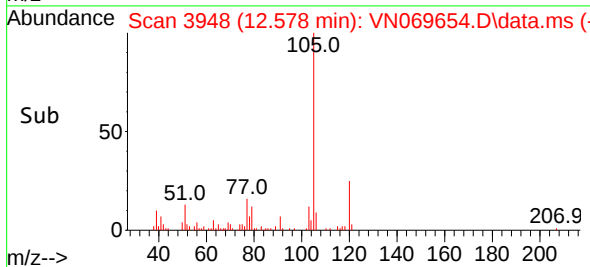
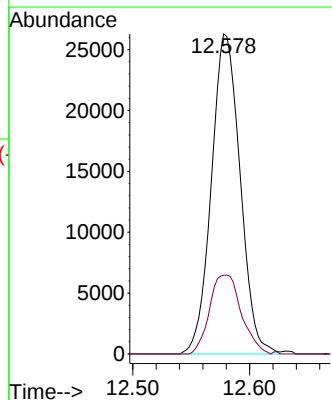
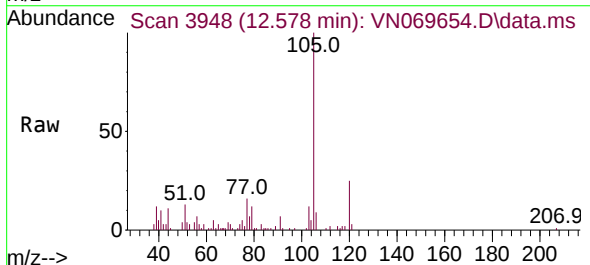
Instrument :
MSVOA_N
ClientSampleId :

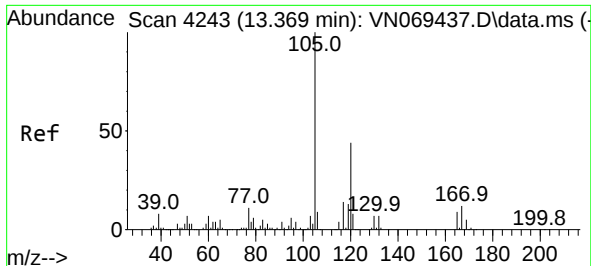
Tgt Ion:106 Resp: 23614
Ion Ratio Lower Upper
106 100
91 231.3 107.7 323.1



#70
Isopropylbenzene
Concen: 0.816 ug/l
RT: 12.578 min Scan# 3948
Delta R.T. -0.003 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

Tgt Ion:105 Resp: 44966
Ion Ratio Lower Upper
105 100
120 27.2 18.3 34.1

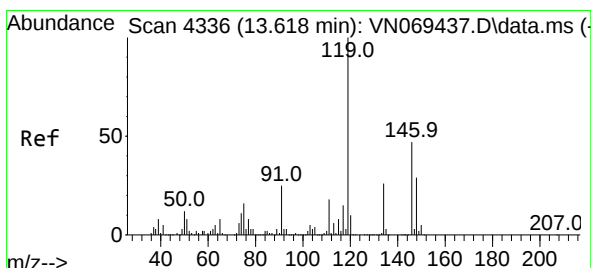
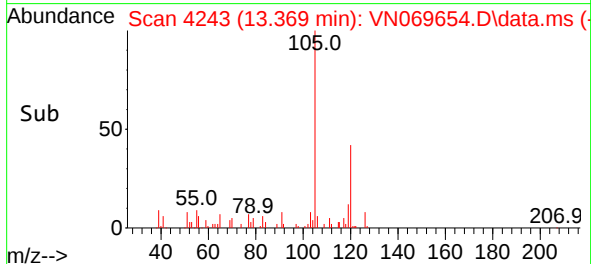
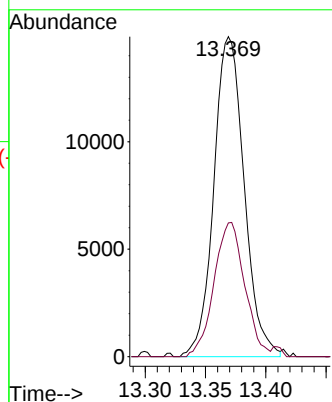
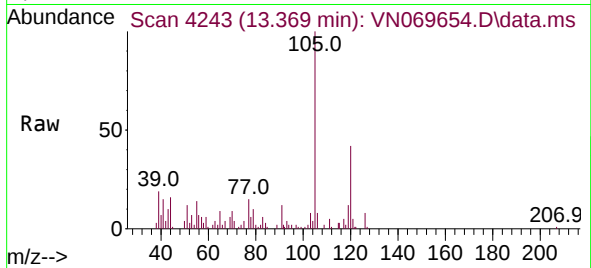




#80
1,2,4-Trimethylbenzene
Concen: 0.591 ug/l
RT: 13.369 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

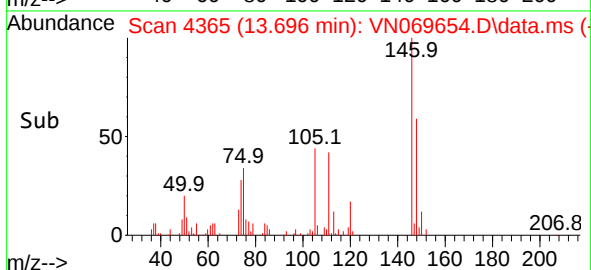
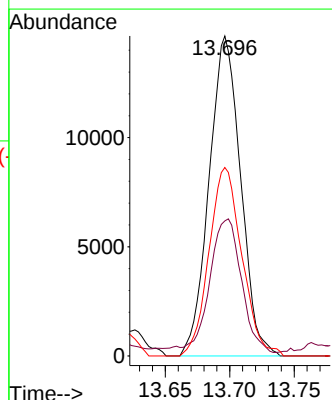
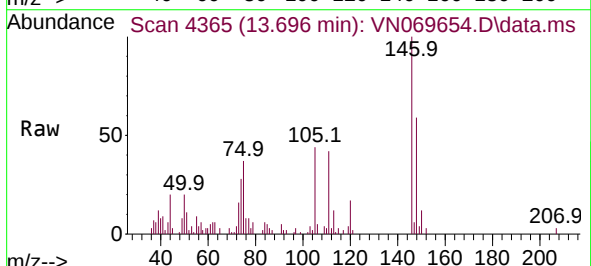
Instrument :
MSVOA_N
ClientSampleId :

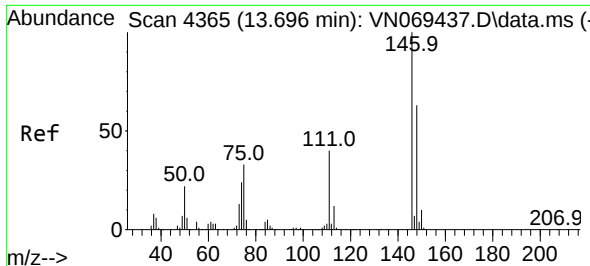
Tgt Ion:105 Resp: 26065
Ion Ratio Lower Upper
105 100
120 42.5 0.0 0.2#



#83
1,3-Dichlorobenzene
Concen: 1.150 ug/l
RT: 13.696 min Scan# 4365
Delta R.T. 0.078 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

Tgt Ion:146 Resp: 24976
Ion Ratio Lower Upper
146 100
111 41.7 20.8 62.2
148 61.0 31.4 94.3

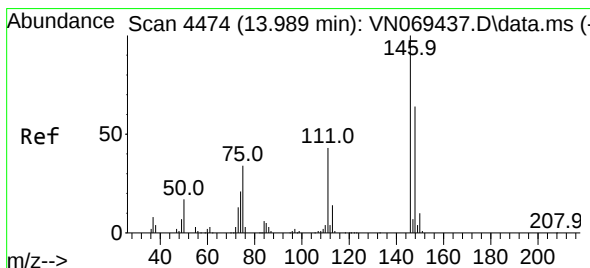
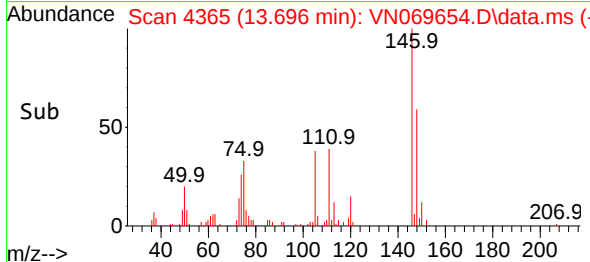
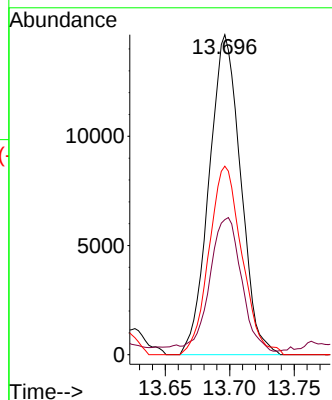
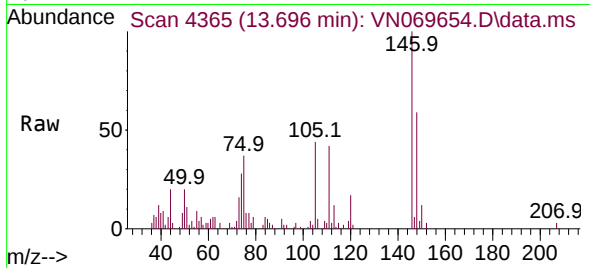




#84
 1,4-Dichlorobenzene
 Concen: 1.185 ug/l
 RT: 13.696 min Scan# 4365
 Delta R.T. 0.000 min
 Lab File: VN069654.D
 Acq: 26 Nov 2021 13:03

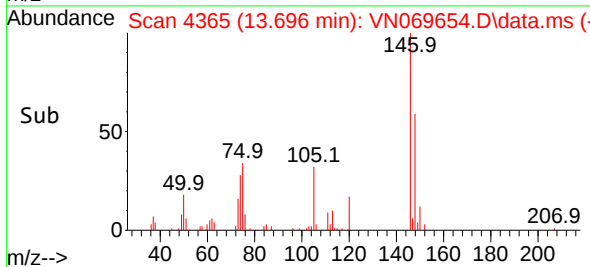
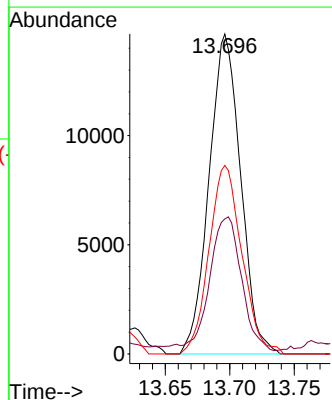
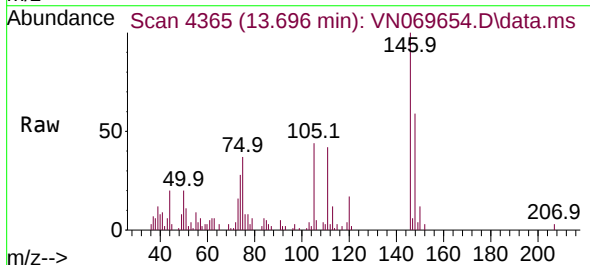
Instrument :
 MSVOA_N
 ClientSampleId :

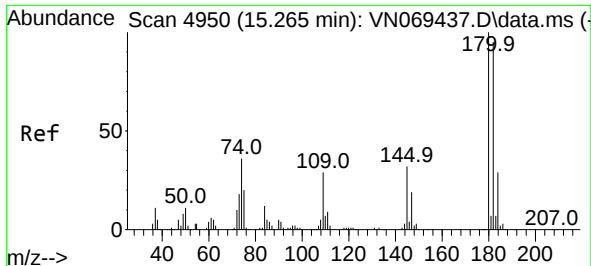
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.7	19.5	58.5
148	61.0	31.1	93.5



#87
 1,2-Dichlorobenzene
 Concen: 1.191 ug/l
 RT: 13.696 min Scan# 4365
 Delta R.T. -0.295 min
 Lab File: VN069654.D
 Acq: 26 Nov 2021 13:03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.7	21.4	64.2
148	61.0	32.5	97.4

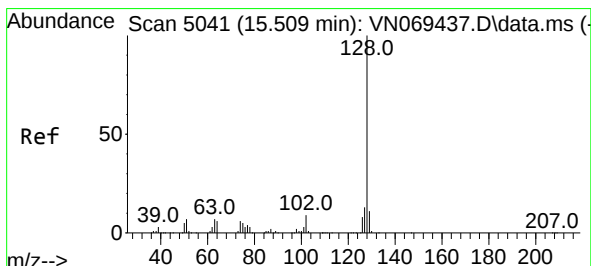
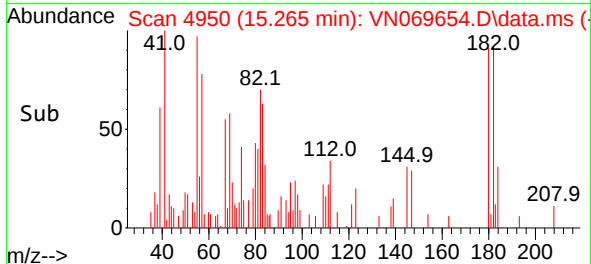
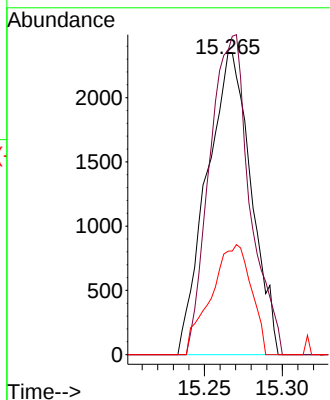
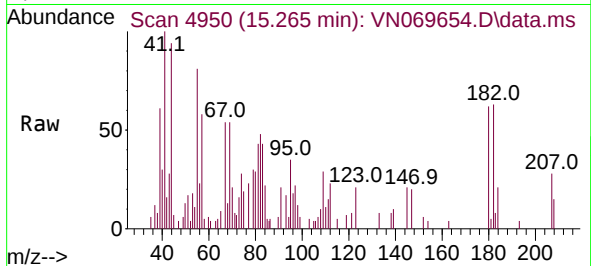




#89
1,2,4-Trichlorobenzene
Concen: 0.463 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

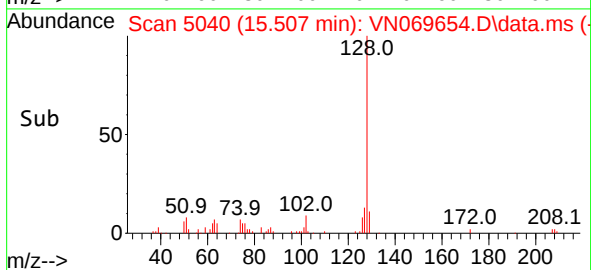
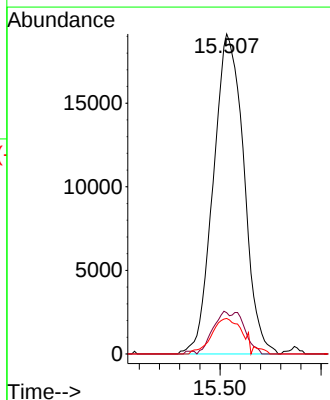
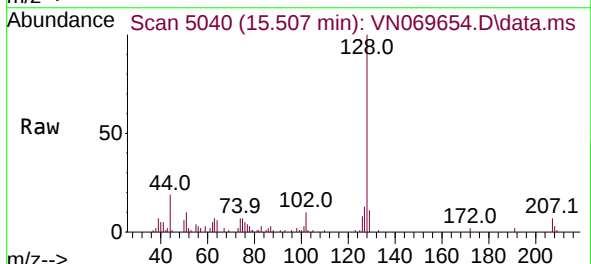
Instrument :
MSVOA_N
ClientSampleId :

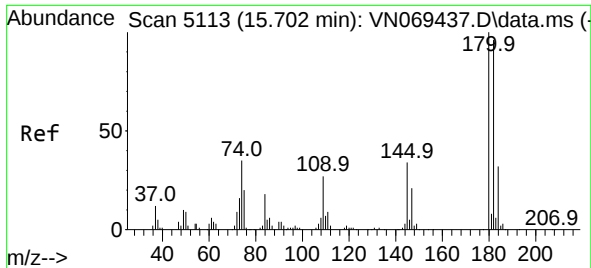
Tgt Ion:180 Resp: 4655
Ion Ratio Lower Upper
180 100
182 96.1 77.7 116.5
145 33.0 26.6 39.8



#91
Naphthalene
Concen: 1.381 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. 0.000 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

Tgt Ion:128 Resp: 39985
Ion Ratio Lower Upper
128 100
127 7.4 10.7 16.1#
129 10.4 9.0 13.6





#92

1,2,3-Trichlorobenzene

Concen: 0.664 ug/l

RT: 15.702 min Scan# 5113

Delta R.T. 0.000 min

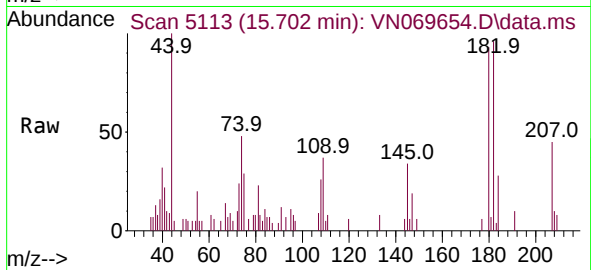
Lab File: VN069654.D

Acq: 26 Nov 2021 13:03

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:180 Resp: 6556

Ion Ratio Lower Upper

180 100

182 92.9 0.0 190.0

145 24.5 0.0 67.8

