

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121321\
 Data File : VN070038.D
 Acq On : 13 Dec 2021 17:45
 Operator : JC/MD
 Sample : M4929-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 14 05:28:05 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)

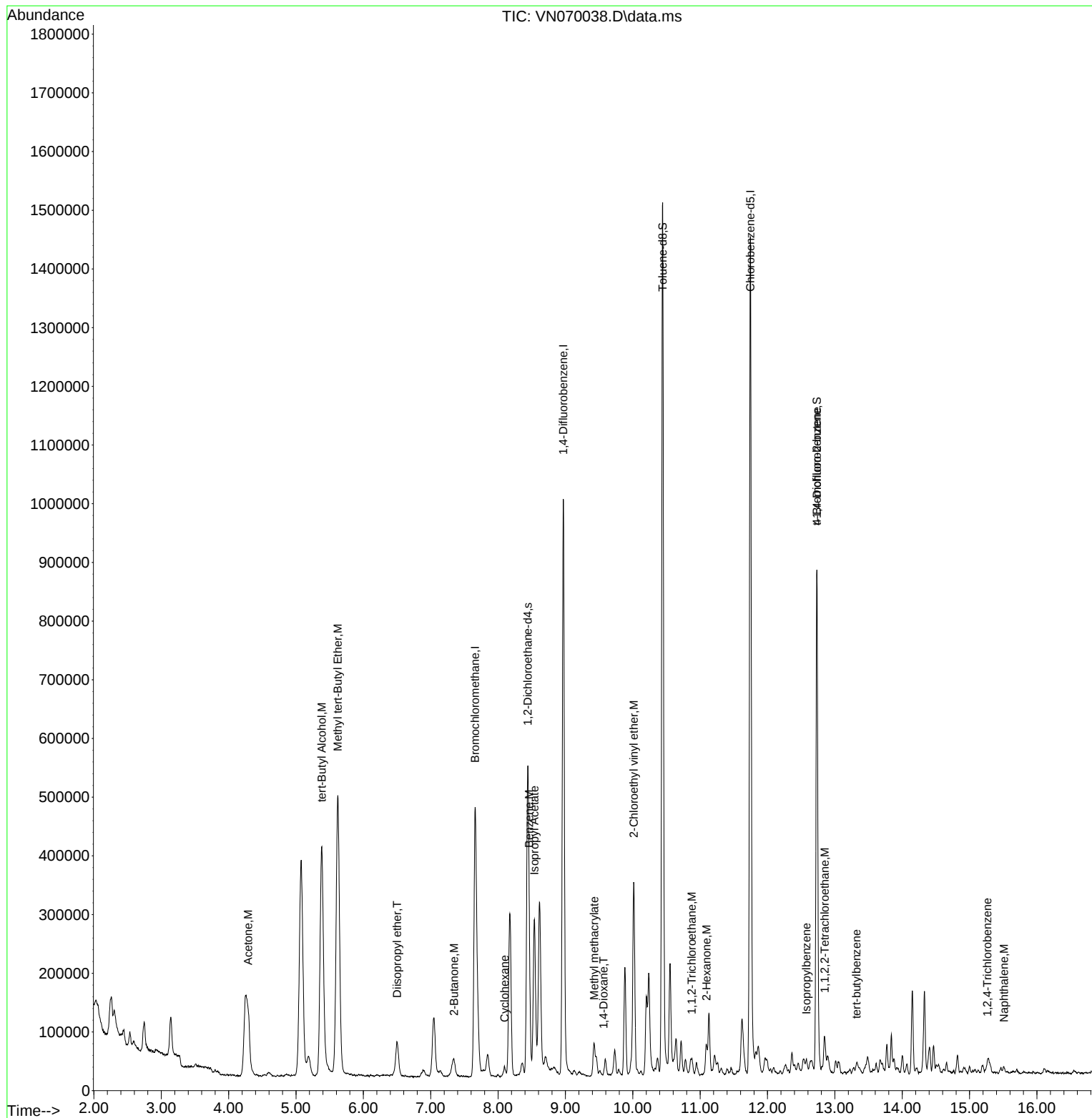
Internal Standards						
1) Bromochloromethane	7.659	128	151712	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	812135	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	711354	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	414104	30.800	ug/l	0.00
Spiked Amount	30.000	Range 91 - 110	Recovery	= 102.667%		
60) 4-Bromofluorobenzene	12.734	95	291404	24.895	ug/l	0.00
Spiked Amount	30.000	Range 63 - 112	Recovery	= 83.000%		
63) Toluene-d8	10.443	98	1000118	30.424	ug/l	0.00
Spiked Amount	30.000	Range 91 - 112	Recovery	= 101.400%		
Target Compounds						
						Qvalue
15) Acetone	4.291	58	19690	8.815	ug/l	73
20) Diisopropyl ether	6.501	45	72073	1.933	ug/l #	87
23) tert-Butyl Alcohol	5.382	59	698598	359.014	ug/l #	100
24) Methyl tert-Butyl Ether	5.621	73	705898	22.968	ug/l	97
26) Cyclohexane	8.096	56	7156	0.393	ug/l #	84
30) 2-Butanone	7.348	43	39780	4.135	ug/l #	69
34) Benzene	8.461	78	142886	3.456	ug/l #	63
44) Isopropyl Acetate	8.539	43	70814	2.633	ug/l #	51
45) 1,4-Dioxane	9.563	88	86	0.452	ug/l #	1
46) Methyl methacrylate	9.429	41	13345	1.048	ug/l	65
50) 1,1,2-Trichloroethane	10.875	97	3147	0.318	ug/l #	28
55) 2-Chloroethyl vinyl ether	10.014	63	693	0.224	ug/l #	1
59) 2-Hexanone	11.095	43	10057	0.833	ug/l #	61
70) Isopropylbenzene	12.578	105	9209	0.209	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.849	83	5324	0.368	ug/l #	26
77) t-1,4-Dichloro-2-butene	12.734	75	167066	39.462	ug/l #	9
79) tert-butylbenzene	13.321	119	6797	0.216	ug/l	87
89) 1,2,4-Trichlorobenzene	15.263	180	1792	0.232	ug/l #	30
91) Naphthalene	15.509	128	11841	8.438	ug/l #	80

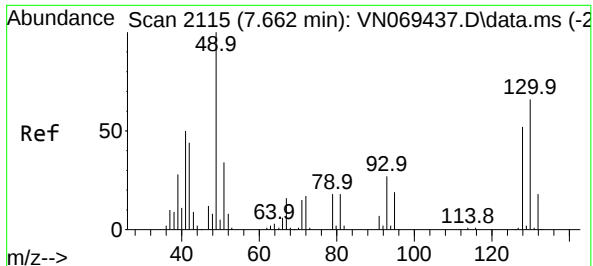
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121321\
Data File : VN070038.D
Acq On : 13 Dec 2021 17:45
Operator : JC/MD
Sample : M4929-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Dec 14 05:28:05 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

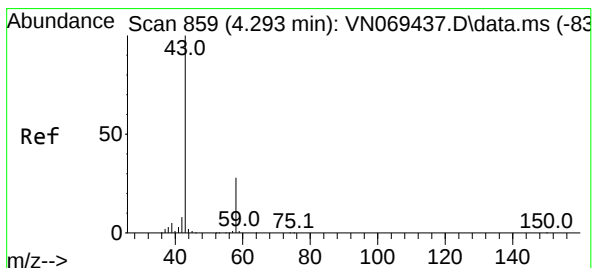
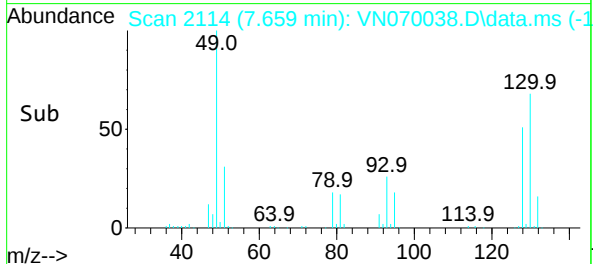
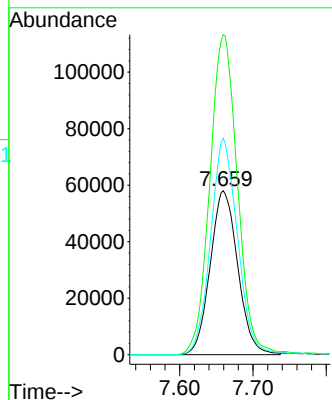
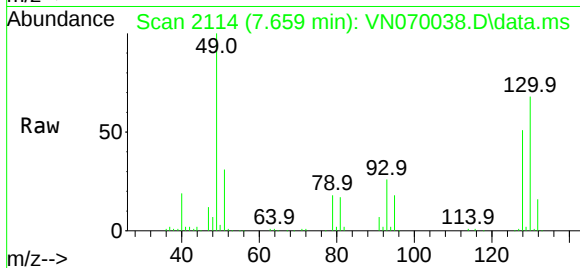




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.659 min Scan# 2114
Delta R.T. 0.002 min
Lab File: VN070038.D
Acq: 13 Dec 2021 17:45

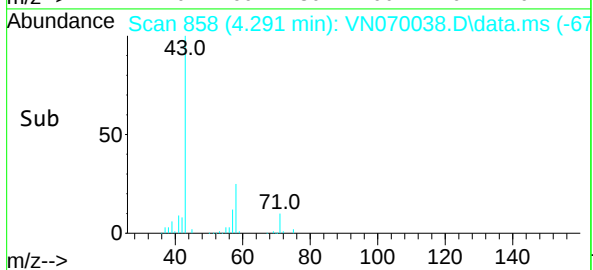
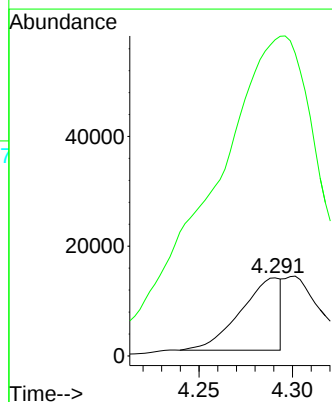
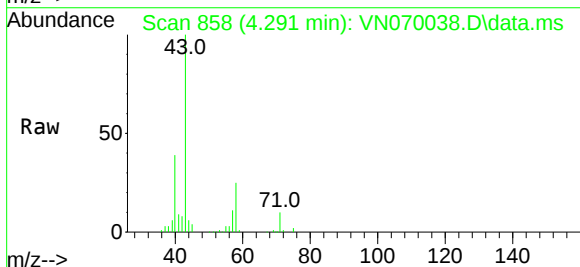
Instrument :
MSVOA_N
ClientSampleId :

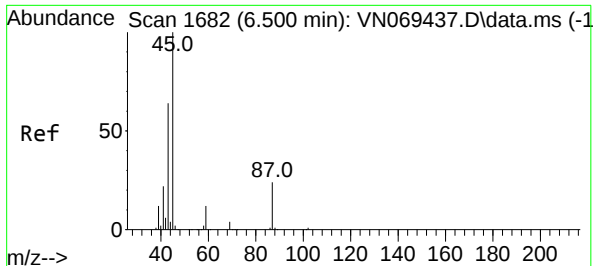
Tgt Ion:128 Resp: 151712
Ion Ratio Lower Upper
128 100
49 194.7 0.0 392.3
130 128.5 0.0 320.2



#15
Acetone
Concen: 8.815 ug/l
RT: 4.291 min Scan# 858
Delta R.T. 0.005 min
Lab File: VN070038.D
Acq: 13 Dec 2021 17:45

Tgt Ion: 58 Resp: 19690
Ion Ratio Lower Upper
58 100
43 266.0 256.6 384.8





#20

Diisopropyl ether

Concen: 1.933 ug/l

RT: 6.501 min Scan# 1

Delta R.T. 0.003 min

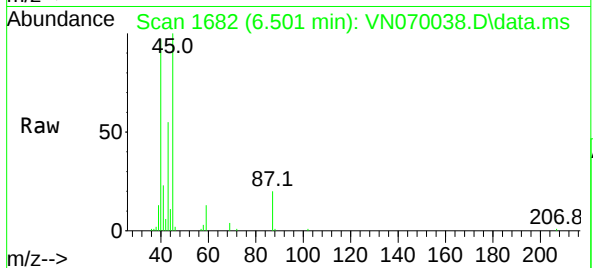
Lab File: VN070038.D

Acq: 13 Dec 2021 17:45

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 45 Resp: 72073

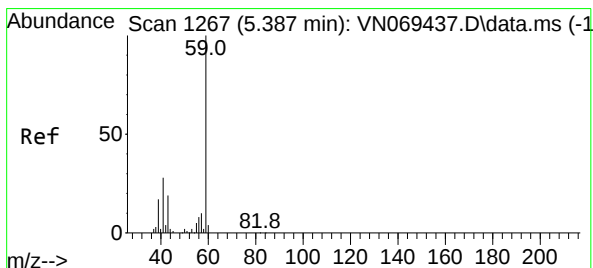
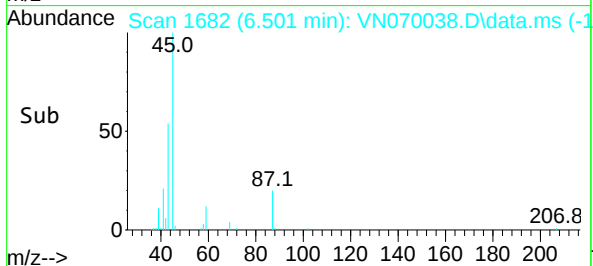
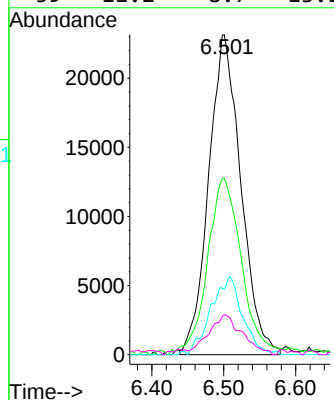
Ion Ratio Lower Upper

45 100

43 53.9 51.0 76.4

87 20.7 25.0 37.4#

59 11.2 8.7 13.1



#23

tert-Butyl Alcohol

Concen: 359.014 ug/l

RT: 5.382 min Scan# 1265

Delta R.T. 0.008 min

Lab File: VN070038.D

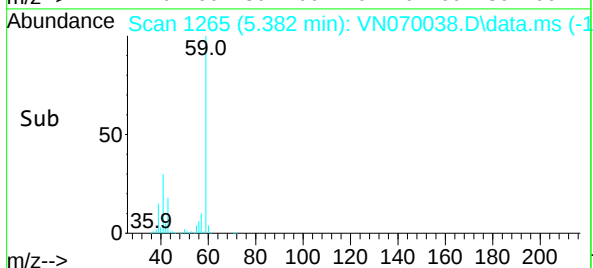
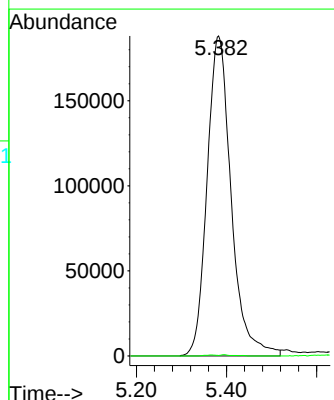
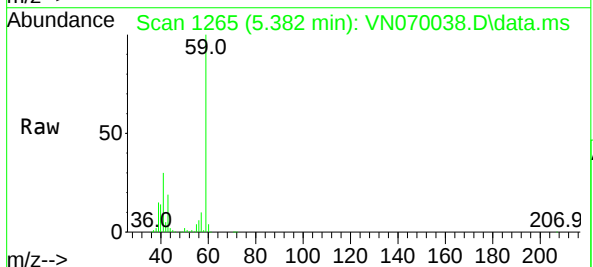
Acq: 13 Dec 2021 17:45

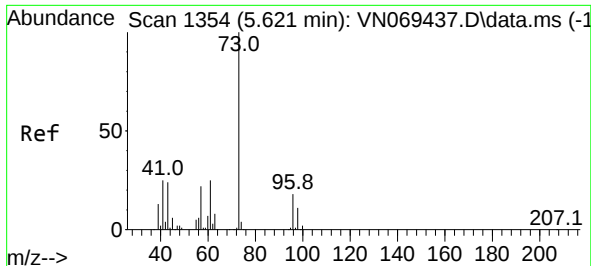
Tgt Ion: 59 Resp: 698598

Ion Ratio Lower Upper

59 100

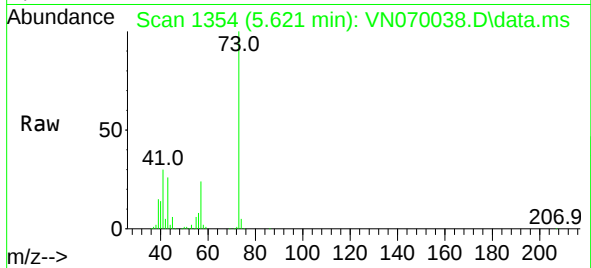
52 0.1 0.0 0.0#



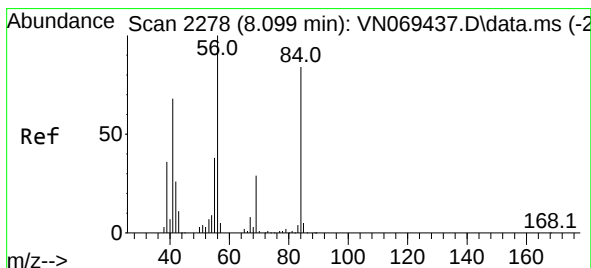
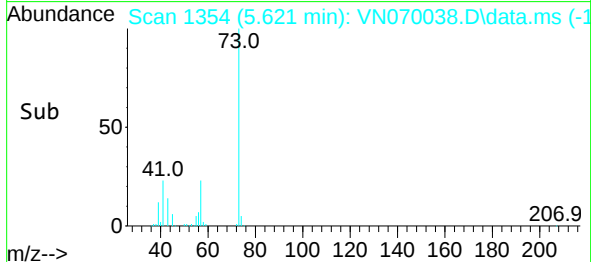
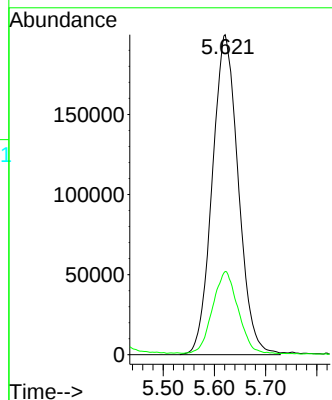


#24
Methyl tert-Butyl Ether
Concen: 22.968 ug/l
RT: 5.621 min Scan# 11
Delta R.T. 0.003 min
Lab File: VN070038.D
Acq: 13 Dec 2021 17:45

Instrument :
MSVOA_N
ClientSampleId :

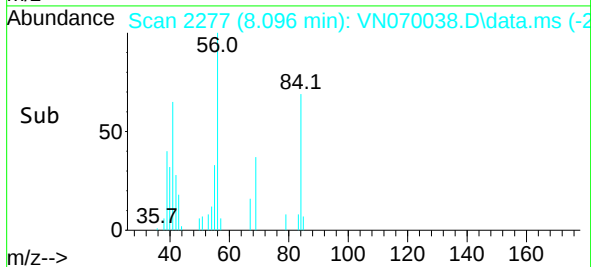
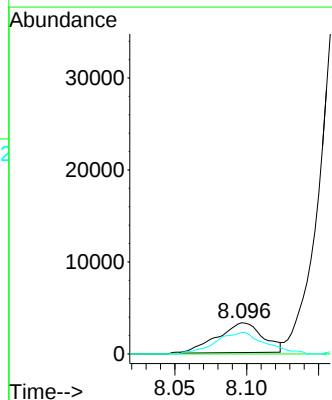
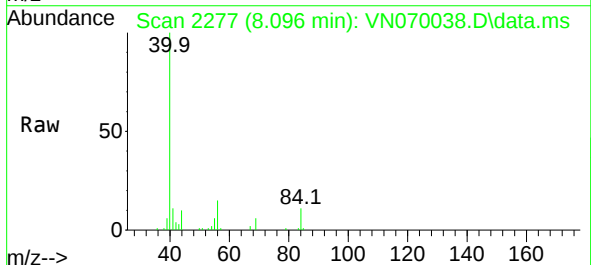


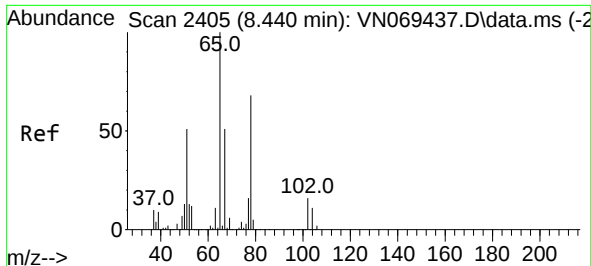
Tgt Ion: 73 Resp: 705898
Ion Ratio Lower Upper
73 100
43 24.2 18.1 27.1



#26
Cyclohexane
Concen: 0.393 ug/l
RT: 8.096 min Scan# 2277
Delta R.T. 0.000 min
Lab File: VN070038.D
Acq: 13 Dec 2021 17:45

Tgt Ion: 56 Resp: 7156
Ion Ratio Lower Upper
56 100
89 0.0 0.1 0.1#
84 77.9 74.6 111.8





#27

1,2-Dichloroethane-d4

Concen: 30.800 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. 0.000 min

Lab File: VN070038.D

Acq: 13 Dec 2021 17:45

Instrument :

MSVOA_N

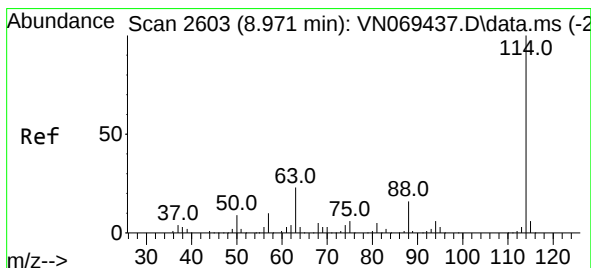
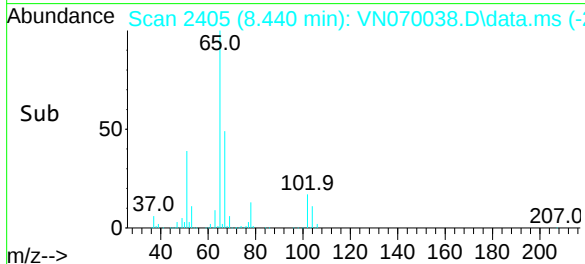
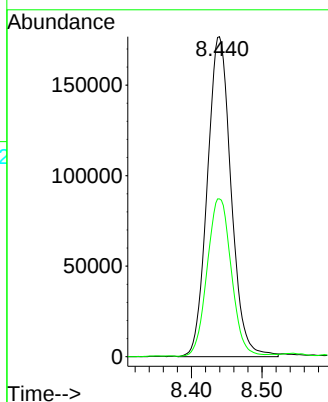
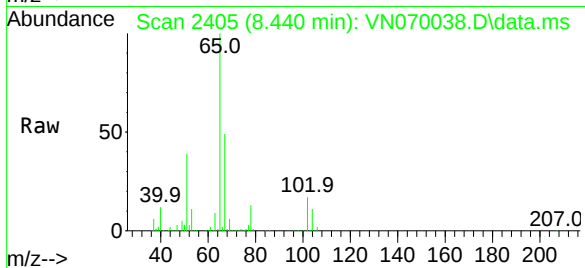
ClientSampleId :

Tgt Ion: 65 Resp: 414104

Ion Ratio Lower Upper

65 100

67 50.0 40.2 60.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. 0.000 min

Lab File: VN070038.D

Acq: 13 Dec 2021 17:45

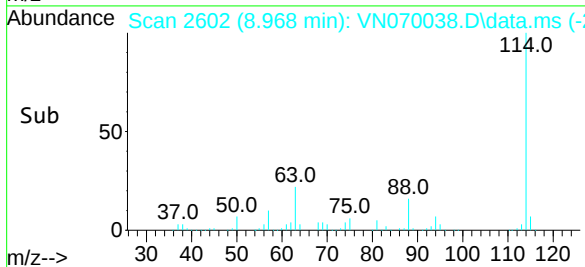
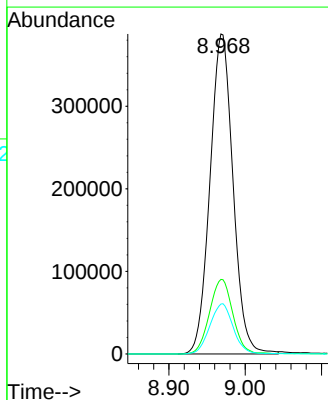
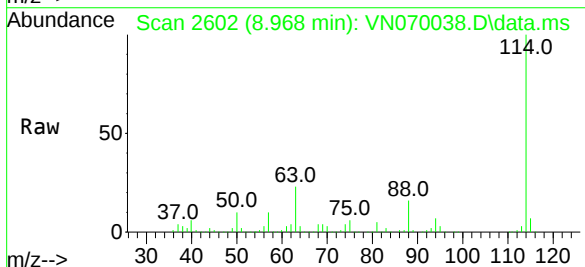
Tgt Ion: 114 Resp: 812135

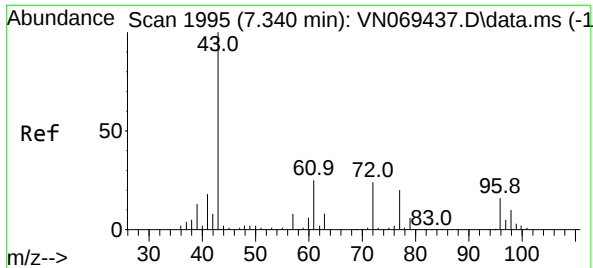
Ion Ratio Lower Upper

114 100

63 23.5 15.8 23.6

88 15.9 11.6 17.4

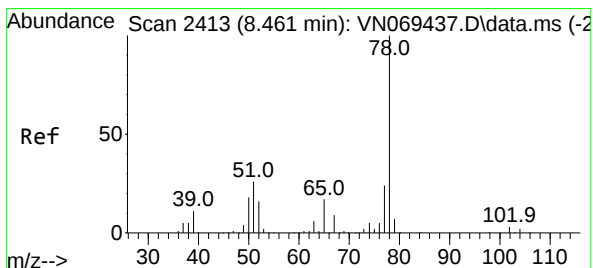
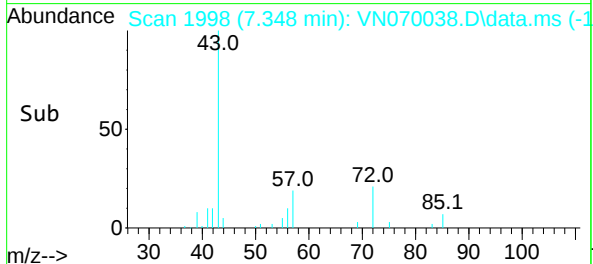
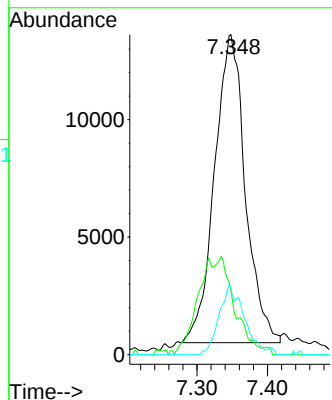
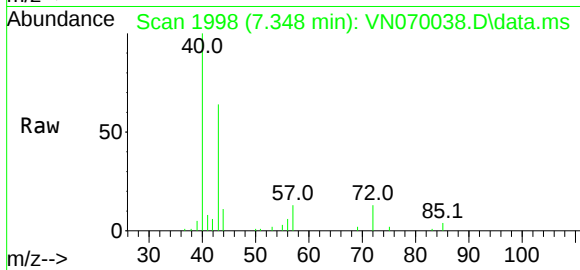




#30
2-Butanone
Concen: 4.135 ug/l
RT: 7.348 min Scan# 1998
Delta R.T. 0.013 min
Lab File: VN070038.D
Acq: 13 Dec 2021 17:45

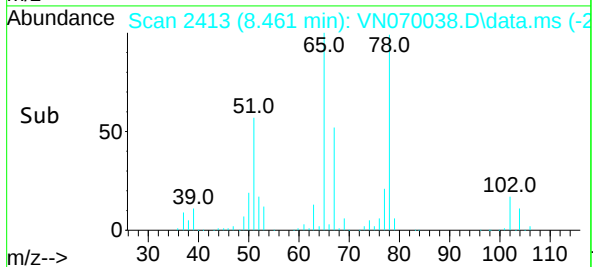
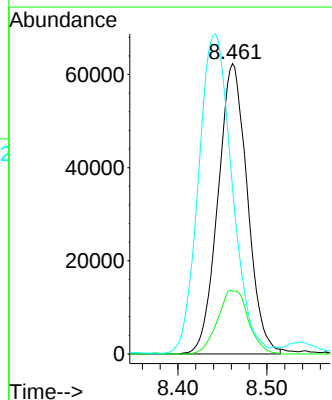
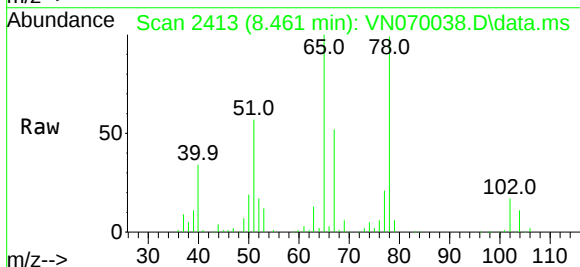
Instrument :
MSVOA_N
ClientSampleId :

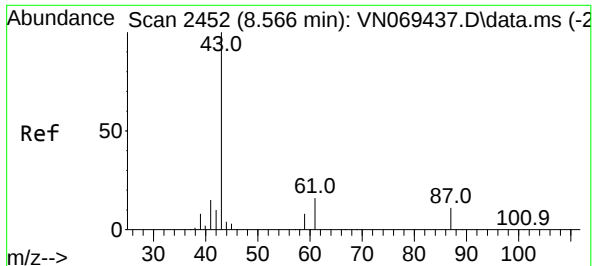
Tgt Ion: 43 Resp: 39780
Ion Ratio Lower Upper
43 100
57 15.9 6.7 10.1#
72 11.0 23.2 34.8#



#34
Benzene
Concen: 3.456 ug/l
RT: 8.461 min Scan# 2413
Delta R.T. 0.000 min
Lab File: VN070038.D
Acq: 13 Dec 2021 17:45

Tgt Ion: 78 Resp: 142886
Ion Ratio Lower Upper
78 100
77 21.6 19.1 28.7
51 55.0 16.0 24.0#

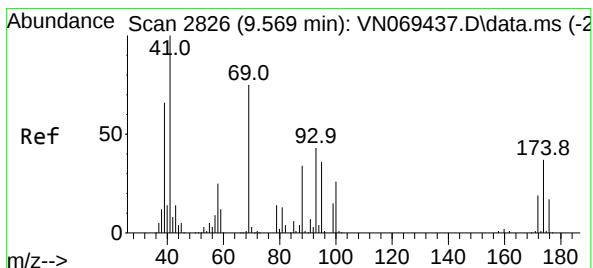
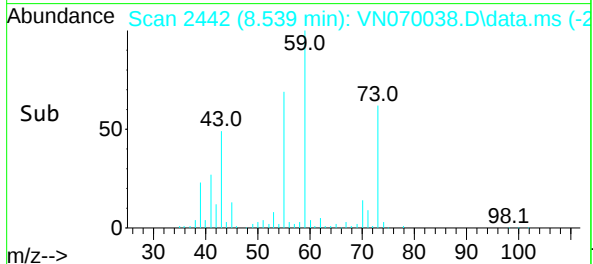
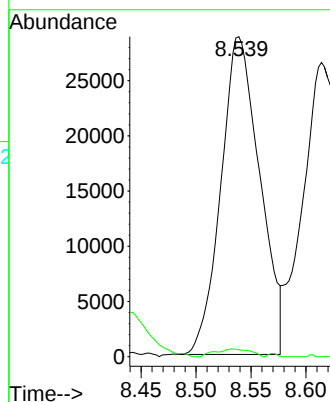
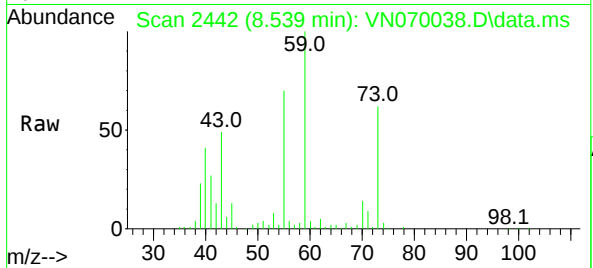




#44
Isopropyl Acetate
Concen: 2.633 ug/l
RT: 8.539 min Scan# 2452
Delta R.T. -0.021 min
Lab File: VN070038.D
Acq: 13 Dec 2021 17:45

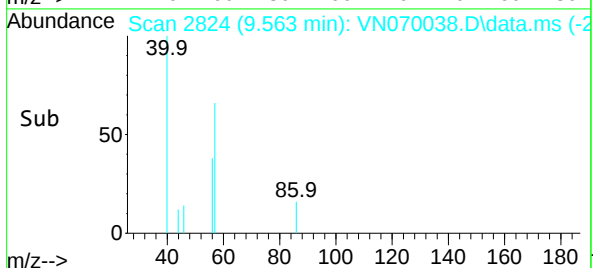
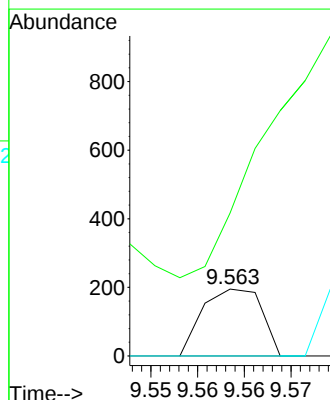
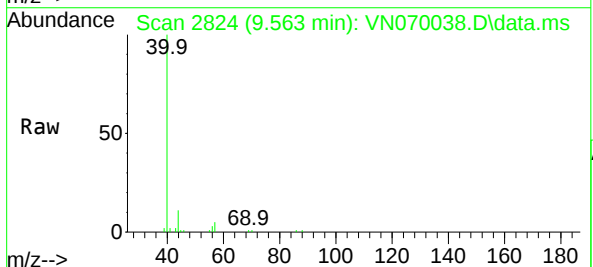
Instrument :
MSVOA_N
ClientSampleId :

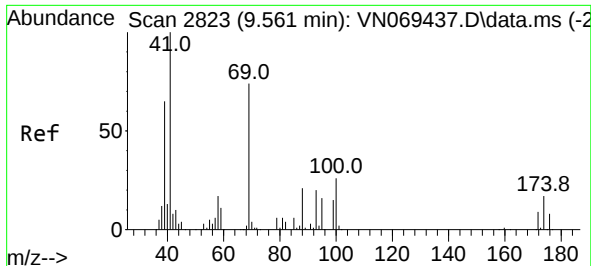
Tgt Ion: 43 Resp: 70814
Ion Ratio Lower Upper
43 100
61 0.5 20.1 30.1#



#45
1,4-Dioxane
Concen: 0.452 ug/l
RT: 9.563 min Scan# 2824
Delta R.T. -0.005 min
Lab File: VN070038.D
Acq: 13 Dec 2021 17:45

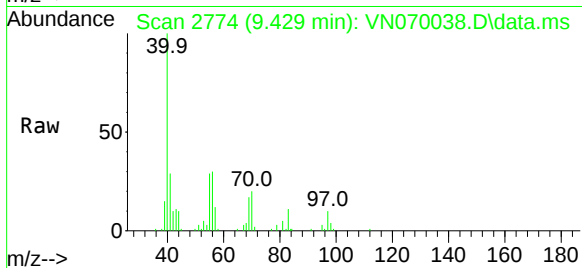
Tgt Ion: 88 Resp: 86
Ion Ratio Lower Upper
88 100
43 2407.0 25.0 37.6#
58 551.2 49.4 74.2#



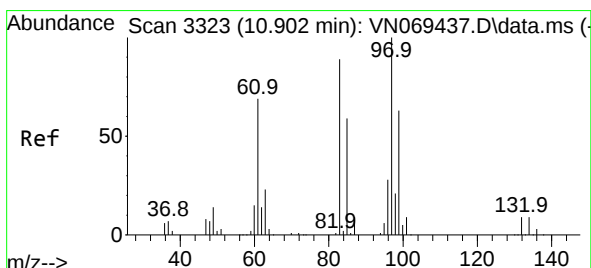
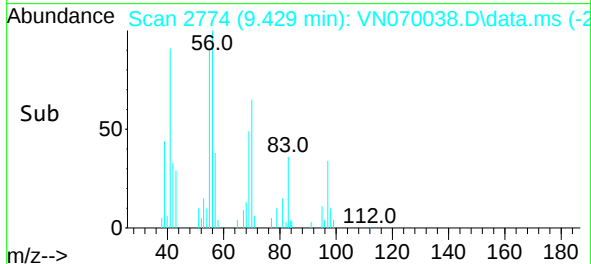
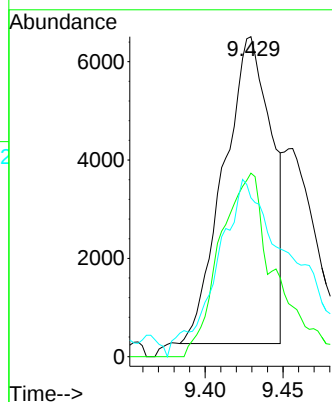


#46
Methyl methacrylate
Concen: 1.048 ug/l
RT: 9.429 min Scan# 21
Delta R.T. -0.131 min
Lab File: VN070038.D
Acq: 13 Dec 2021 17:45

Instrument :
MSVOA_N
ClientSampleId :

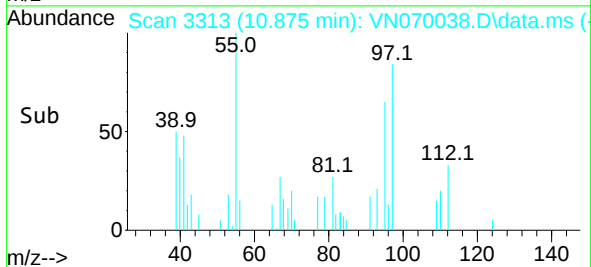
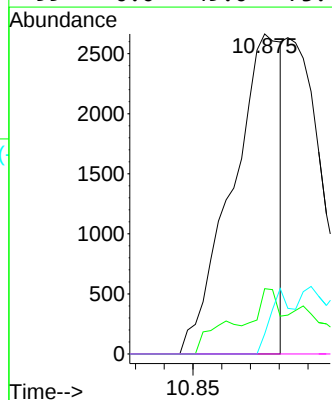
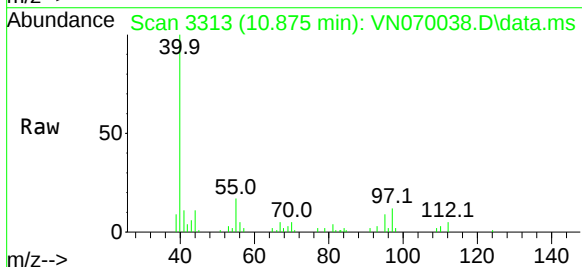


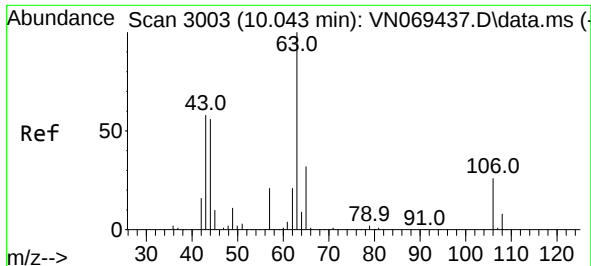
Tgt Ion: 41	Resp: 13345
Ion Ratio	Lower Upper
41 100	
69 59.8	44.4 133.2
39 44.1	39.9 119.6



#50
1,1,2-Trichloroethane
Concen: 0.318 ug/l
RT: 10.875 min Scan# 3313
Delta R.T. -0.024 min
Lab File: VN070038.D
Acq: 13 Dec 2021 17:45

Tgt Ion: 97	Resp: 3147
Ion Ratio	Lower Upper
97 100	
83 20.4	67.2 100.8#
85 6.2	43.0 64.4#
99 0.0	49.0 73.4#

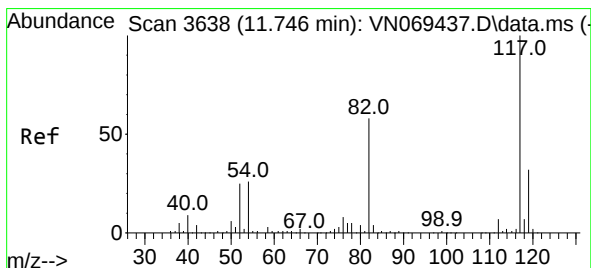
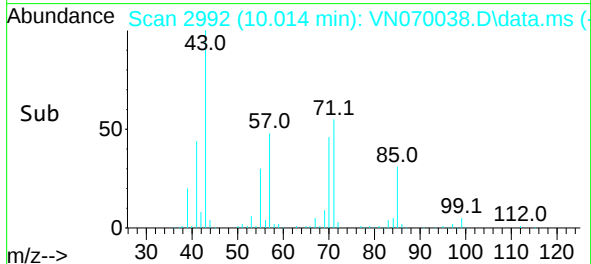
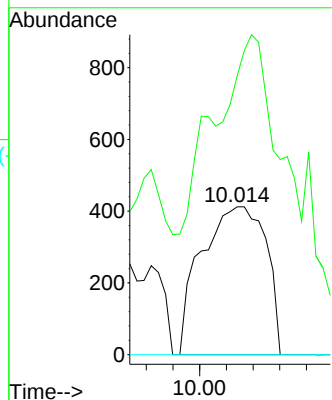
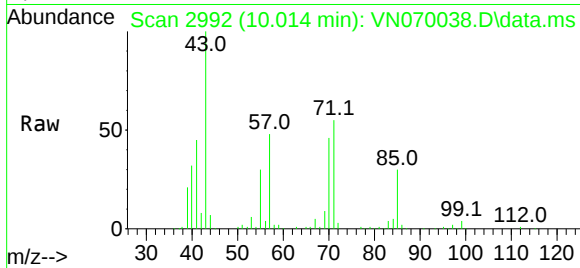




#55
2-Chloroethyl vinyl ether
Concen: 0.224 ug/l
RT: 10.014 min Scan# 2992
Delta R.T. -0.027 min
Lab File: VN070038.D
Acq: 13 Dec 2021 17:45

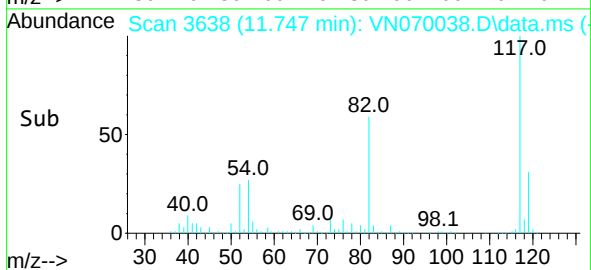
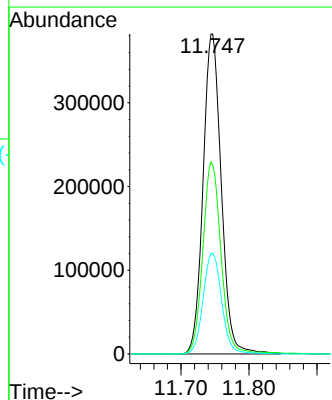
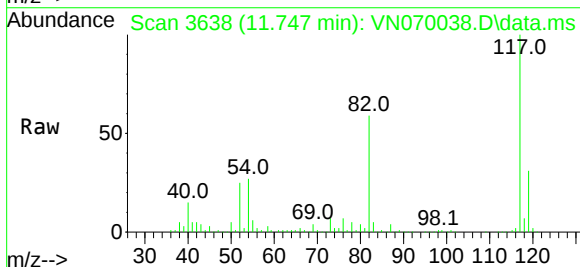
Instrument :
MSVOA_N
ClientSampleId :

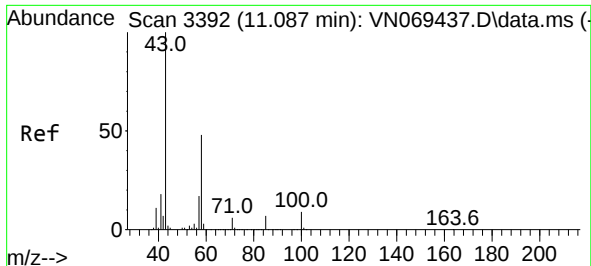
Tgt Ion: 63 Resp: 693
Ion Ratio Lower Upper
63 100
65 121.4 25.4 38.0#
106 0.0 23.2 34.8#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.003 min
Lab File: VN070038.D
Acq: 13 Dec 2021 17:45

Tgt Ion: 117 Resp: 711354
Ion Ratio Lower Upper
117 100
82 59.4 43.6 65.4
119 32.0 25.8 38.6

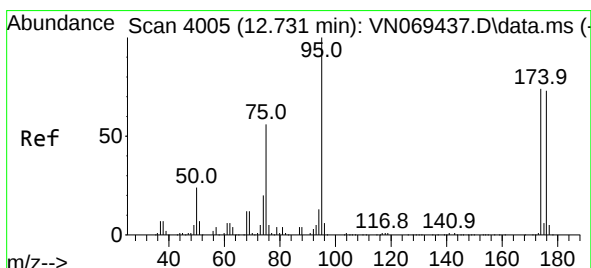
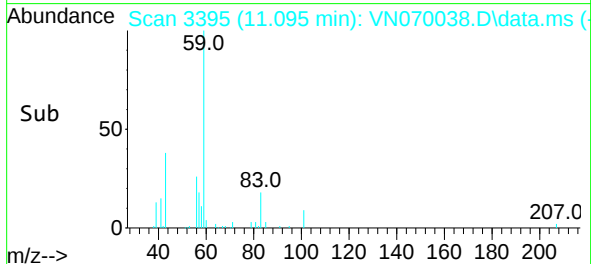
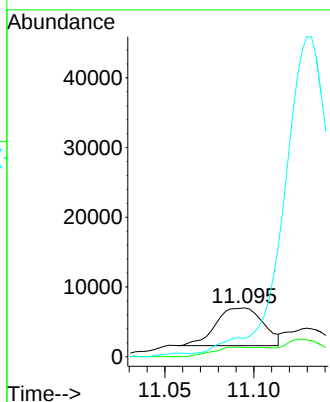
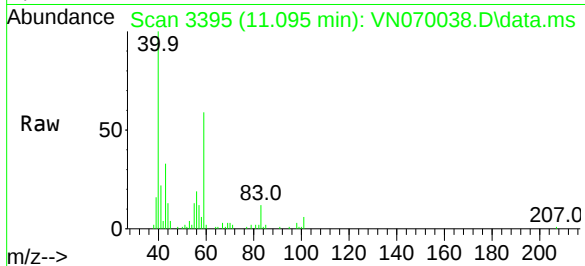




#59
2-Hexanone
Concen: 0.833 ug/l
RT: 11.095 min Scan# 31
Delta R.T. 0.011 min
Lab File: VN070038.D
Acq: 13 Dec 2021 17:45

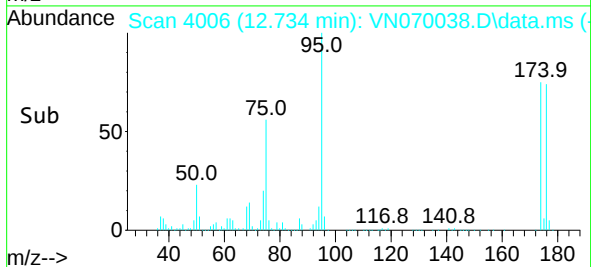
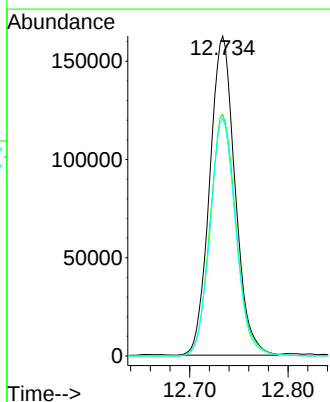
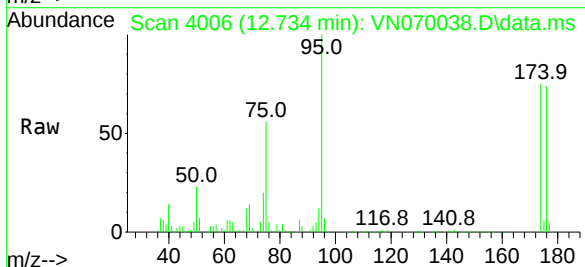
Instrument :
MSVOA_N
ClientSampleId :

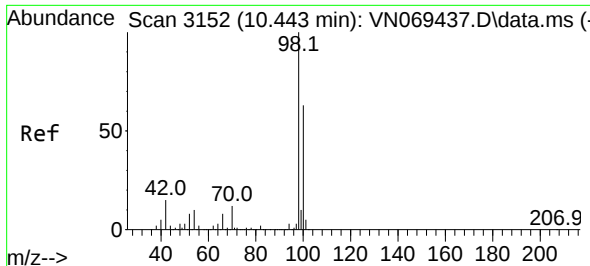
Tgt Ion: 43 Resp: 10057
Ion Ratio Lower Upper
43 100
58 19.2 42.2 63.2#
57 26.0 15.0 22.4#



#60
4-Bromofluorobenzene
Concen: 24.895 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.003 min
Lab File: VN070038.D
Acq: 13 Dec 2021 17:45

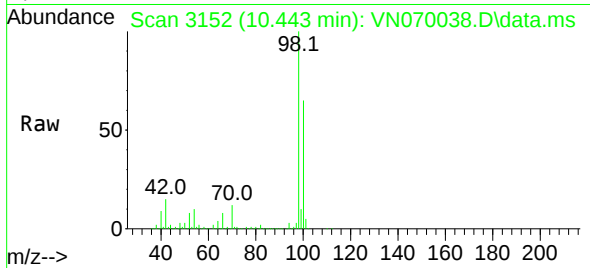
Tgt Ion: 95 Resp: 291404
Ion Ratio Lower Upper
95 100
174 78.1 62.9 94.3
176 75.3 61.0 91.4



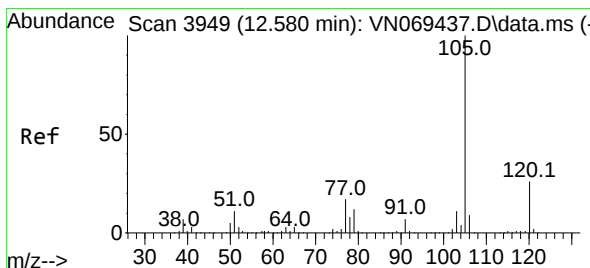
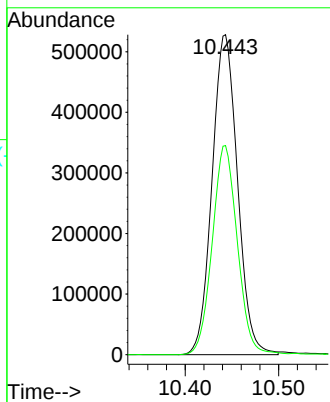
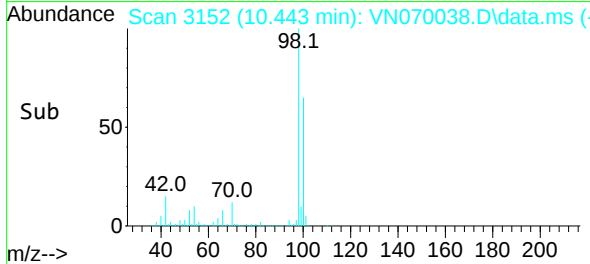


#63
Toluene-d8
Concen: 30.424 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VN070038.D
Acq: 13 Dec 2021 17:45

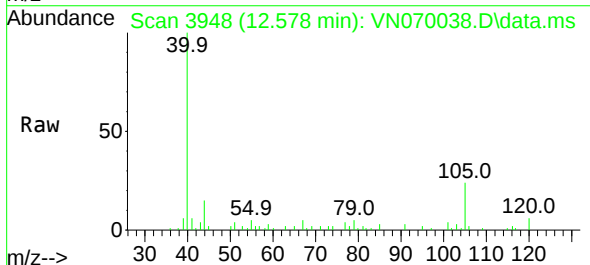
Instrument :
MSVOA_N
ClientSampleId :



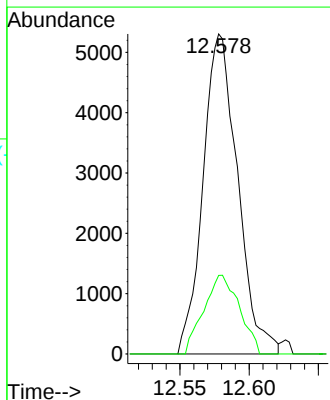
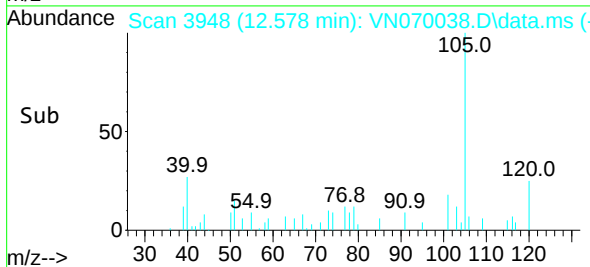
Tgt Ion: 98 Resp: 1000118
Ion Ratio Lower Upper
98 100
100 64.4 50.6 76.0

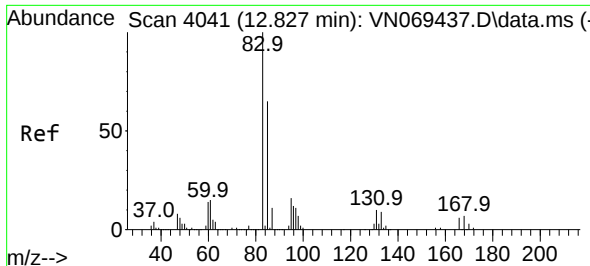


#70
Isopropylbenzene
Concen: 0.209 ug/l
RT: 12.578 min Scan# 3948
Delta R.T. 0.000 min
Lab File: VN070038.D
Acq: 13 Dec 2021 17:45



Tgt Ion: 105 Resp: 9209
Ion Ratio Lower Upper
105 100
120 25.3 18.3 34.1

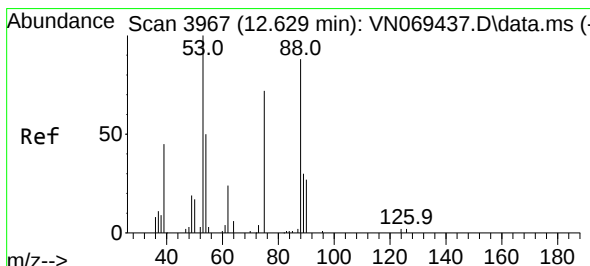
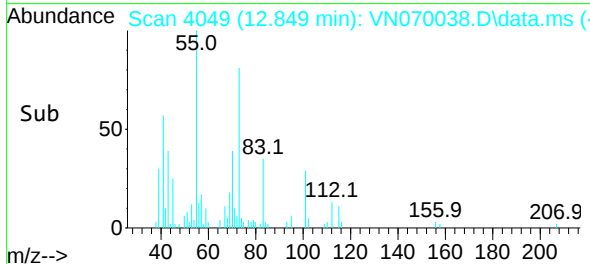
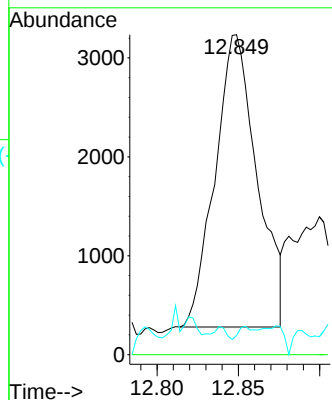
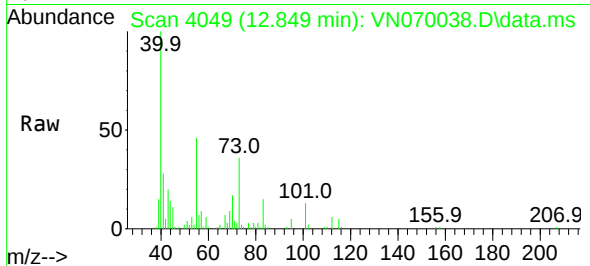




#71
1,1,2,2-Tetrachloroethane
Concen: 0.368 ug/l
RT: 12.849 min Scan# 4041
Delta R.T. 0.022 min
Lab File: VN070038.D
Acq: 13 Dec 2021 17:45

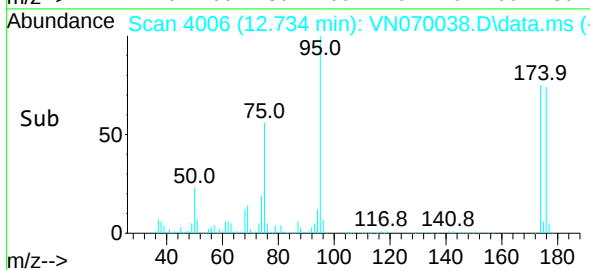
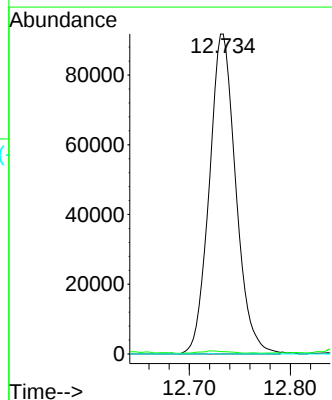
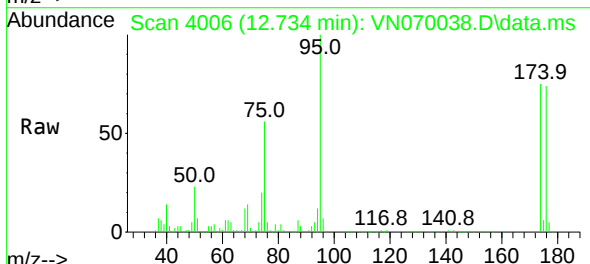
Instrument :
MSVOA_N
ClientSampleId :

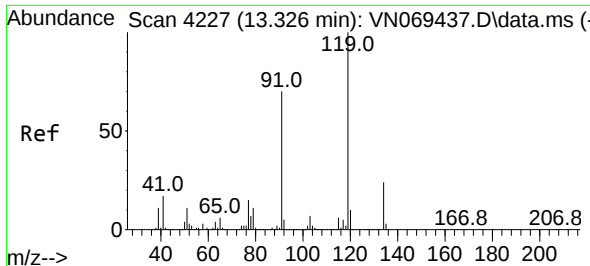
Tgt Ion: 83 Resp: 5324
Ion Ratio Lower Upper
83 100
131 0.0 5.1 15.3#
85 1.2 33.1 99.2#



#77
t-1,4-Dichloro-2-butene
Concen: 39.462 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.110 min
Lab File: VN070038.D
Acq: 13 Dec 2021 17:45

Tgt Ion: 75 Resp: 167066
Ion Ratio Lower Upper
75 100
53 0.5 51.8 155.5#
89 0.0 22.9 68.7#





#79

tert-butylbenzene

Concen: 0.216 ug/l

RT: 13.321 min Scan# 41

Delta R.T. -0.003 min

Lab File: VN070038.D

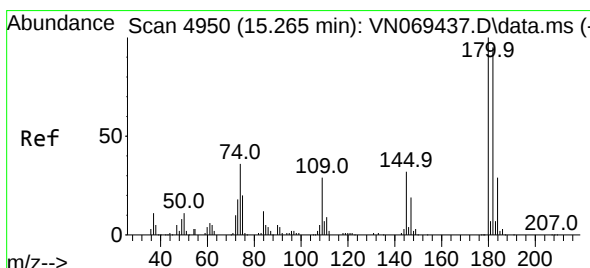
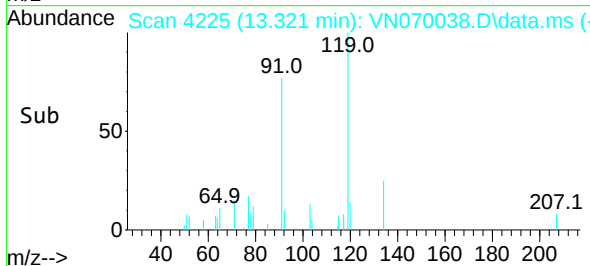
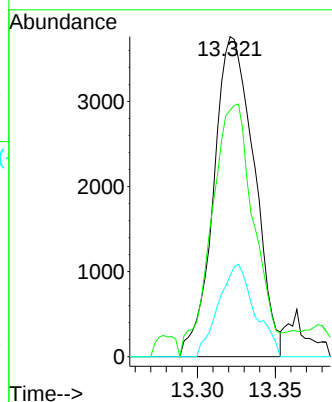
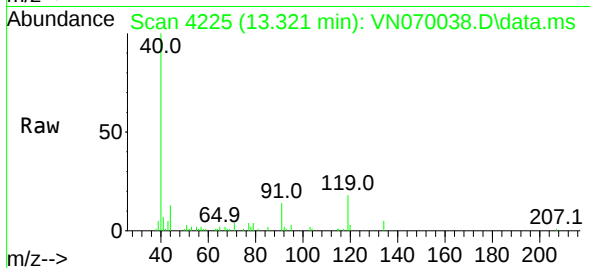
Acq: 13 Dec 2021 17:45

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:119	Resp:	6797
Ion Ratio	Lower	Upper
119	100	
91	82.0	0.0 137.0
134	25.8	0.0 47.6



#89

1,2,4-Trichlorobenzene

Concen: 0.232 ug/l

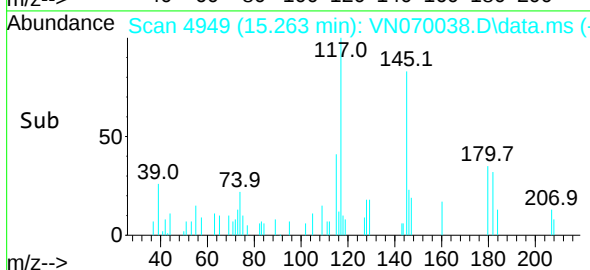
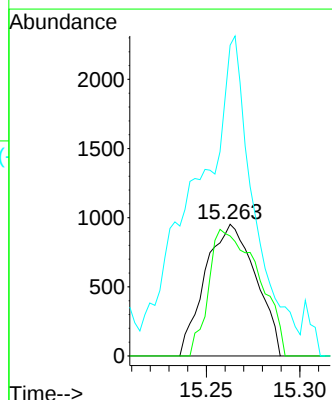
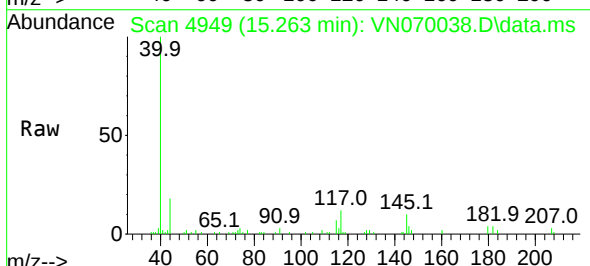
RT: 15.263 min Scan# 4949

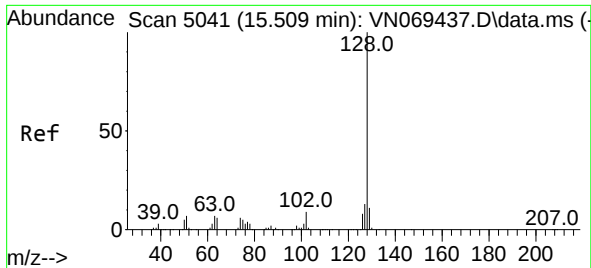
Delta R.T. 0.000 min

Lab File: VN070038.D

Acq: 13 Dec 2021 17:45

Tgt Ion:180	Resp:	1792
Ion Ratio	Lower	Upper
180	100	
182	63.4	77.7 116.5#
145	132.9	26.6 39.8#





#91

Naphthalene

Concen: 8.438 ug/l

RT: 15.509 min Scan# 50

Delta R.T. 0.005 min

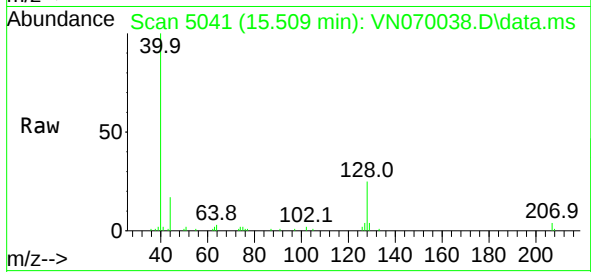
Lab File: VN070038.D

Acq: 13 Dec 2021 17:45

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:128 Resp: 11841

Ion Ratio Lower Upper

128 100

127 3.5 10.7 16.1#

129 6.0 9.0 13.6#

