

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111821\
 Data File : VN069555.D
 Acq On : 18 Nov 2021 16:09
 Operator : JC/MD
 Sample : M4739-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 19 03:19:06 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110921W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 09 18:18:22 2021
 Response via : Initial Calibration

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

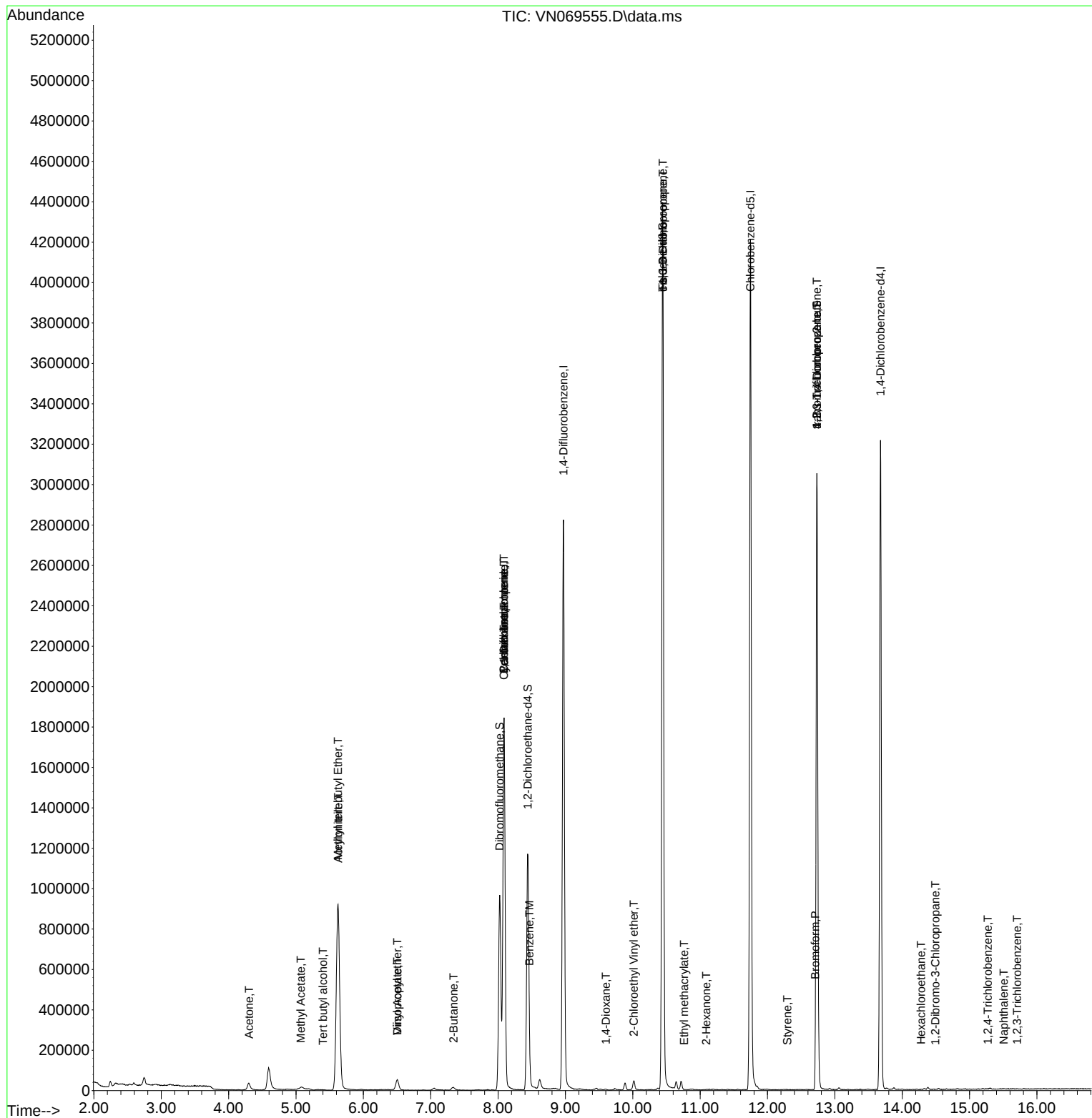
Internal Standards						
1) Pentafluorobenzene	8.088	168	1369317	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	2378920	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	2365178	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	851567	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	1012288	50.986	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 101.980%			
35) Dibromofluoromethane	8.024	113	702141	49.212	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 98.420%			
50) Toluene-d8	10.443	98	3039742	54.170	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 108.340%			
62) 4-Bromofluorobenzene	12.734	95	1053584	51.109	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 102.220%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.401	59	1678	0.469	ug/l #	71
13) Acrolein	4.041	56	196	Below Cal	#	7
15) Acrylonitrile	5.626	53	19704	2.151	ug/l #	17
16) Acetone	4.301	43	59890	5.591	ug/l	92
18) Methyl Acetate	5.074	43	7784	0.224	ug/l #	51
19) Methyl tert-butyl Ether	5.624	73	1407520	29.967	ug/l	96
22) Diisopropyl ether	6.503	45	64365	1.218	ug/l	90
23) Vinyl Acetate	6.503	43	36416	0.891	ug/l #	72
25) 2-Butanone	7.340	43	3003	0.207	ug/l #	77
31) Cyclohexane	8.086	56	36325	1.339	ug/l #	41
36) 1,1-Dichloropropene	8.088	75	117534	5.872	ug/l #	49
38) Carbon Tetrachloride	8.088	117	140437	7.267	ug/l #	16
40) Benzene	8.464	78	12429	0.201	ug/l	91
49) 1,4-Dioxane	9.601	88	56	39.192	ug/l #	1
53) t-1,3-Dichloropropene	10.446	75	836	2.669	ug/l #	1
54) cis-1,3-Dichloropropene	10.446	75	862	1.764	ug/l #	1
56) Ethyl methacrylate	10.762	69	259	2.061	ug/l #	21
58) 2-Chloroethyl Vinyl ether	10.017	63	56	22.777	ug/l #	45
59) 2-Hexanone	11.089	43	973	7.981	ug/l	96
70) Styrene	12.296	104	103	1.522	ug/l #	8
71) Bromoform	12.709	173	250	3.445	ug/l #	29
76) 1,2,3-Trichloropropane	12.734	75	587639	29.902	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.734	75	587639	84.493	ug/l #	5
90) Hexachloroethane	14.278	117	338	2.195	ug/l #	6
92) 1,2-Dibromo-3-Chloropr...	14.493	75	55	1.809	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.271	180	374	3.140	ug/l #	25
95) Naphthalene	15.507	128	2641	4.515	ug/l #	72
96) 1,2,3-Trichlorobenzene	15.705	180	232	3.186	ug/l #	54

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

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MSVOA_N
ClientSampleId :

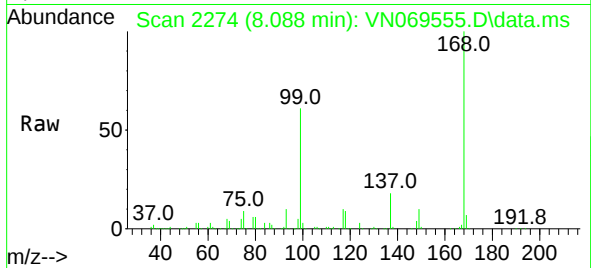
Quant Time: Nov 19 03:19:06 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110921W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 09 18:18:22 2021
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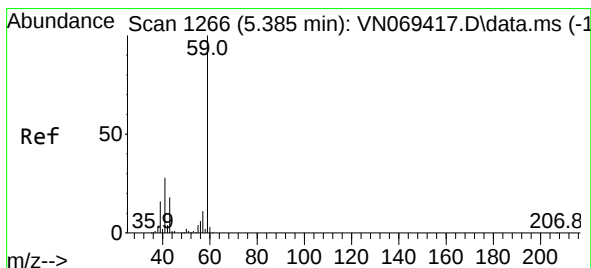
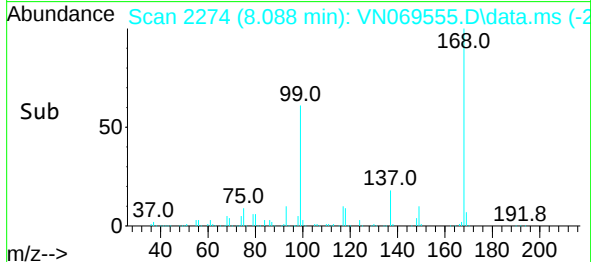
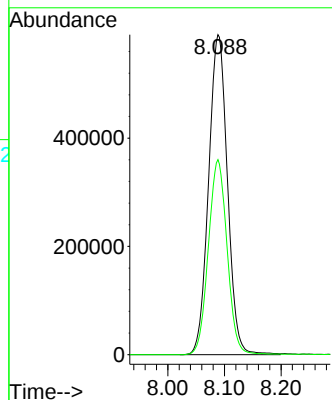


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09

Instrument :
MSVOA_N
ClientSampleId :

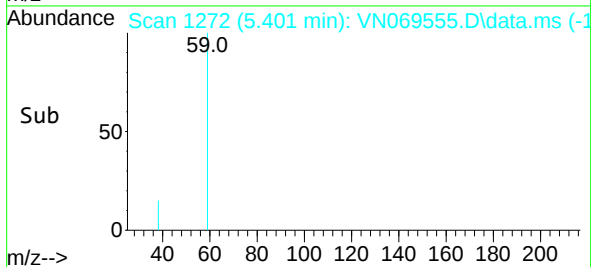
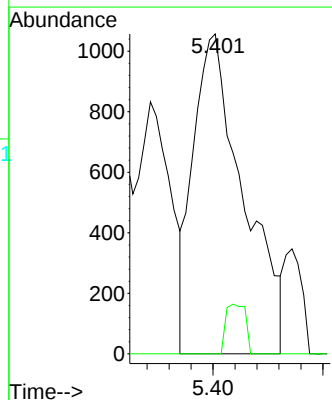
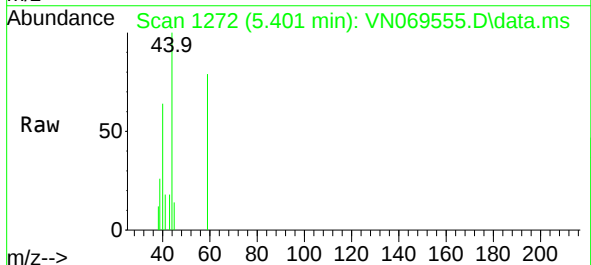


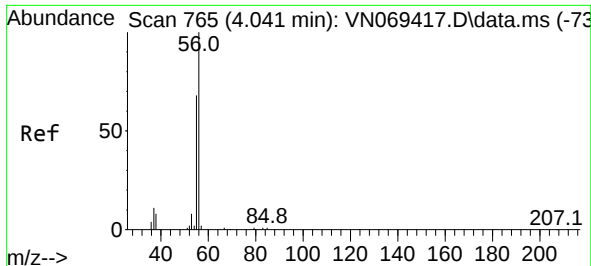
Tgt Ion:168 Resp: 1369317
Ion Ratio Lower Upper
168 100
99 60.9 41.3 61.9



#11
Tert butyl alcohol
Concen: 0.469 ug/l
RT: 5.401 min Scan# 1272
Delta R.T. 0.016 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09

Tgt Ion: 59 Resp: 1678
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#





#13

Acrolein

Concen: Below Cal

RT: 4.041 min Scan# 7

Delta R.T. 0.000 min

Lab File: VN069555.D

Acq: 18 Nov 2021 16:09

Instrument :

MSVOA_N

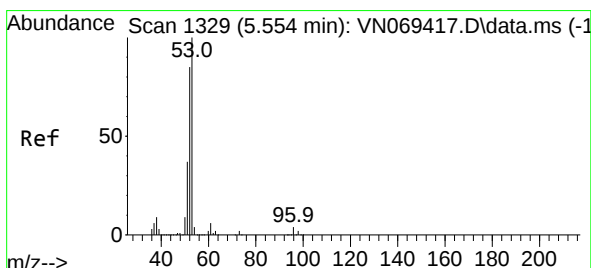
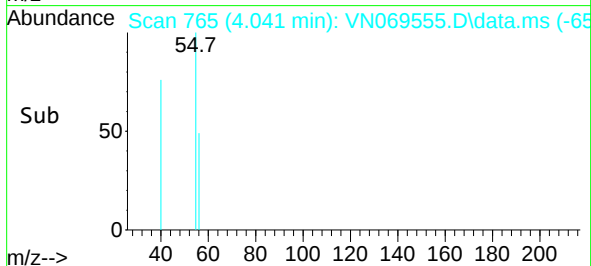
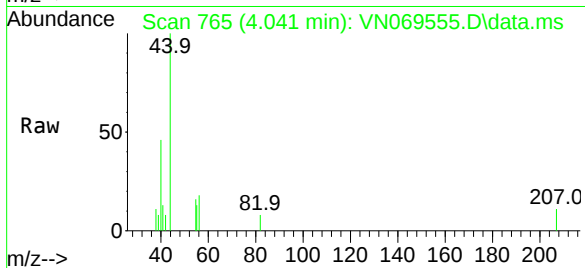
ClientSampleId :

Tgt Ion: 56 Resp: 196

Ion Ratio Lower Upper

56 100

55 148.0 56.6 85.0#



#15

Acrylonitrile

Concen: 2.151 ug/l

RT: 5.626 min Scan# 1356

Delta R.T. 0.072 min

Lab File: VN069555.D

Acq: 18 Nov 2021 16:09

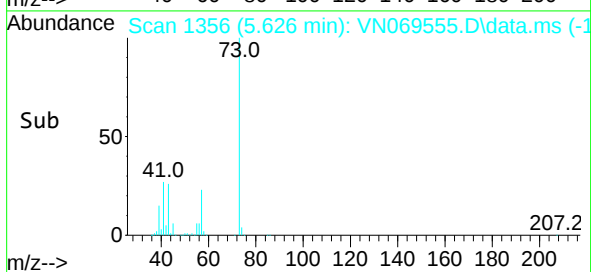
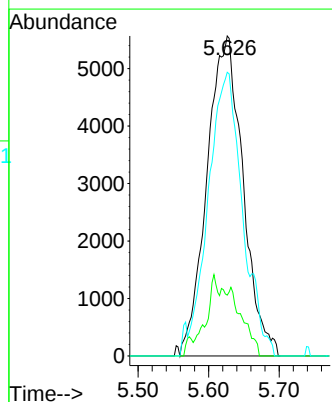
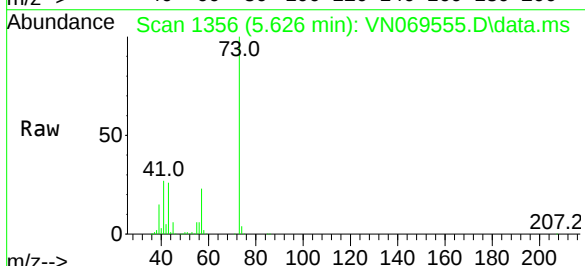
Tgt Ion: 53 Resp: 19704

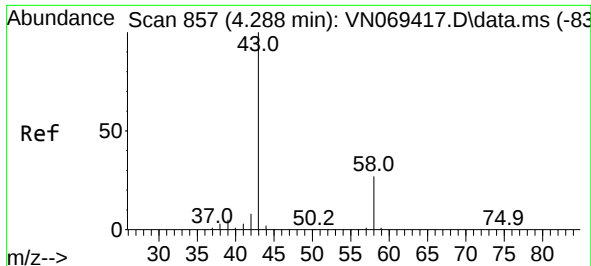
Ion Ratio Lower Upper

53 100

52 6.1 66.2 99.2#

51 84.0 29.6 44.4#

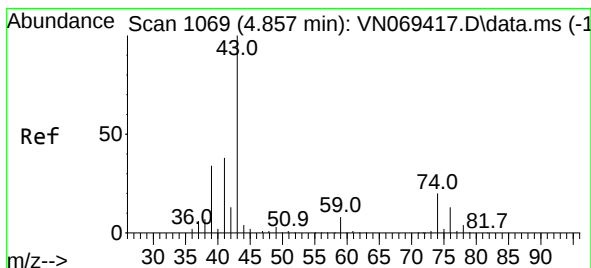
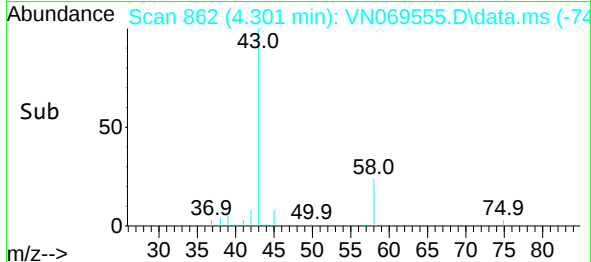
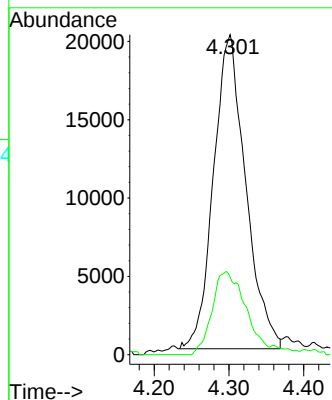
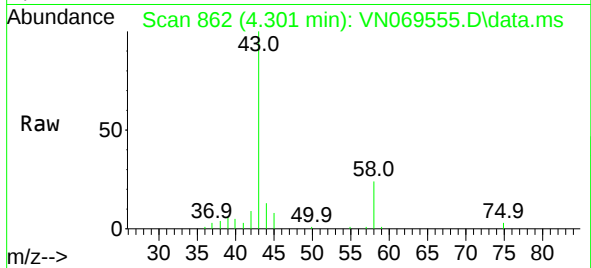




#16
Acetone
Concen: 5.591 ug/l
RT: 4.301 min Scan# 81
Delta R.T. 0.013 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09

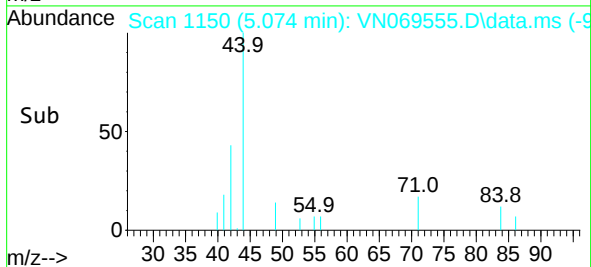
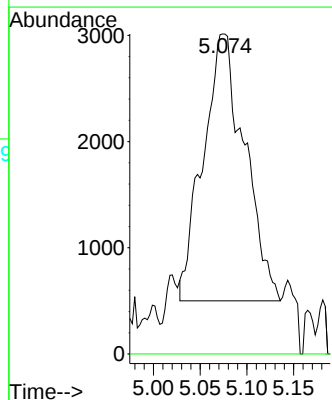
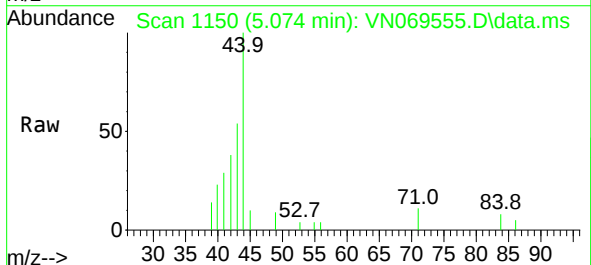
Instrument :
MSVOA_N
ClientSampleId :

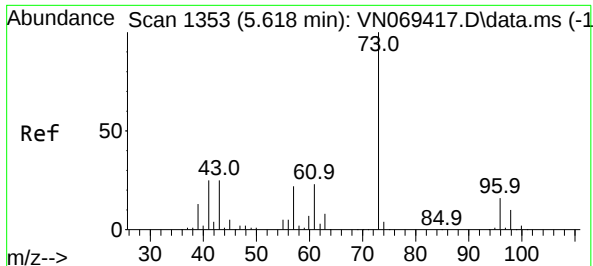
Tgt Ion: 43 Resp: 59890
Ion Ratio Lower Upper
43 100
58 24.7 23.1 34.7



#18
Methyl Acetate
Concen: 0.224 ug/l
RT: 5.074 min Scan# 1150
Delta R.T. 0.217 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09

Tgt Ion: 43 Resp: 7784
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.2#





#19

Methyl tert-butyl Ether

Concen: 29.967 ug/l

RT: 5.624 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN069555.D

Acq: 18 Nov 2021 16:09

Instrument :

MSVOA_N

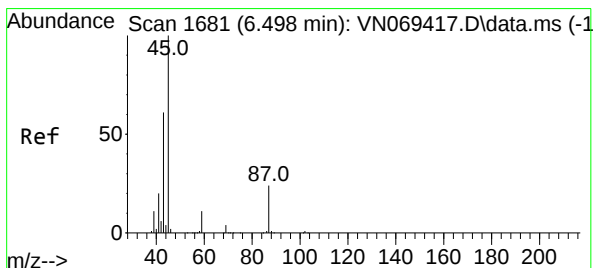
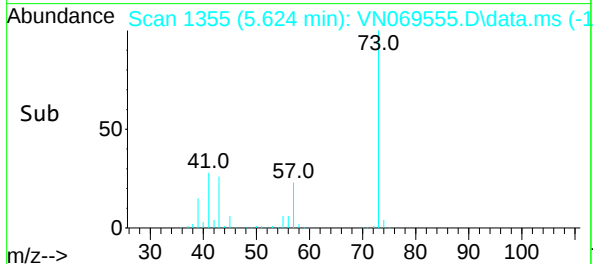
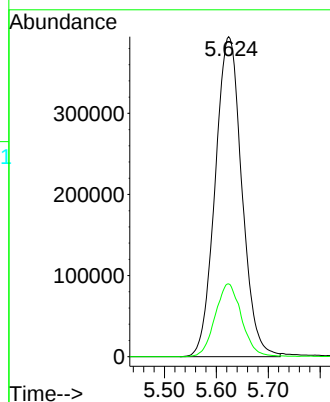
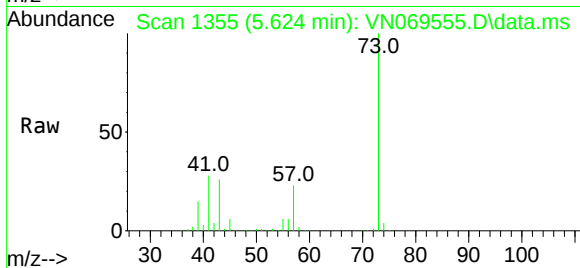
ClientSampleId :

Tgt Ion: 73 Resp: 1407520

Ion Ratio Lower Upper

73 100

57 22.7 16.8 25.2



#22

Diisopropyl ether

Concen: 1.218 ug/l

RT: 6.503 min Scan# 1683

Delta R.T. 0.005 min

Lab File: VN069555.D

Acq: 18 Nov 2021 16:09

Tgt Ion: 45 Resp: 64365

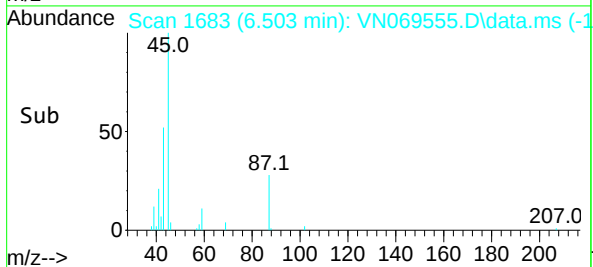
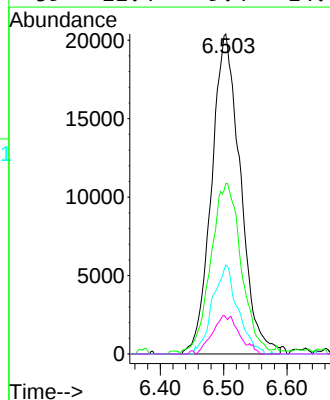
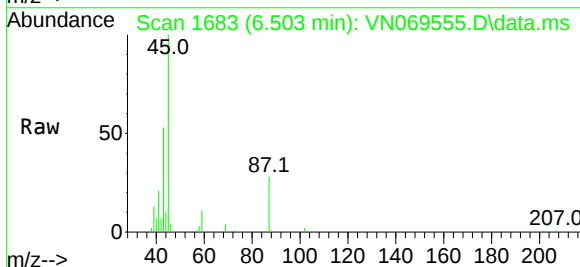
Ion Ratio Lower Upper

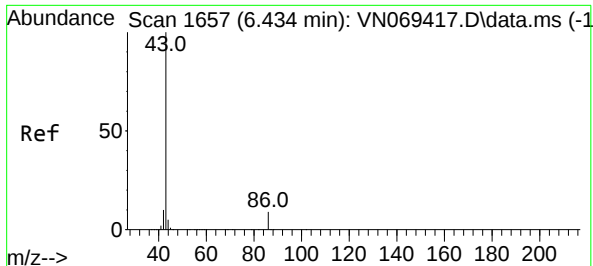
45 100

43 53.3 51.7 77.5

87 27.8 23.2 34.8

59 11.4 9.4 14.0





#23

Vinyl Acetate

Concen: 0.891 ug/l

RT: 6.503 min Scan# 1

Delta R.T. 0.069 min

Lab File: VN069555.D

Acq: 18 Nov 2021 16:09

Instrument :

MSVOA_N

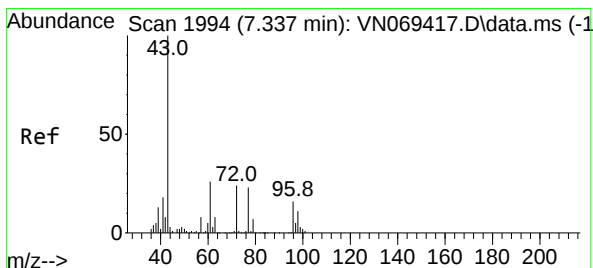
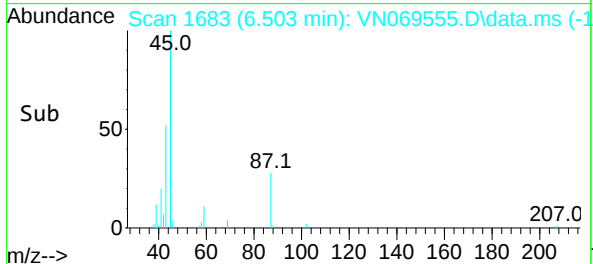
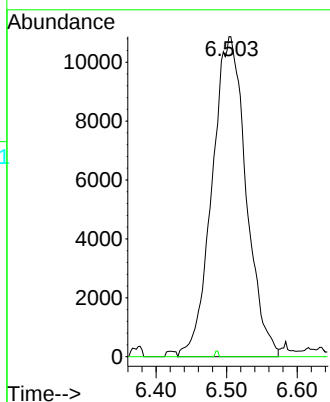
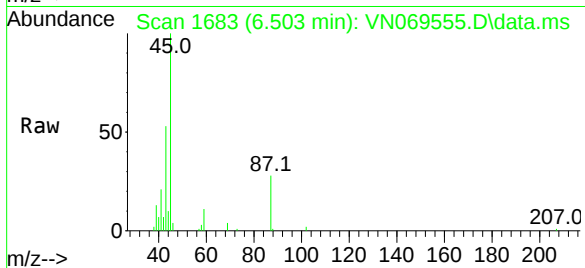
ClientSampleId :

Tgt Ion: 43 Resp: 36416

Ion Ratio Lower Upper

43 100

86 0.0 8.5 12.7#



#25

2-Butanone

Concen: 0.207 ug/l

RT: 7.340 min Scan# 1995

Delta R.T. 0.003 min

Lab File: VN069555.D

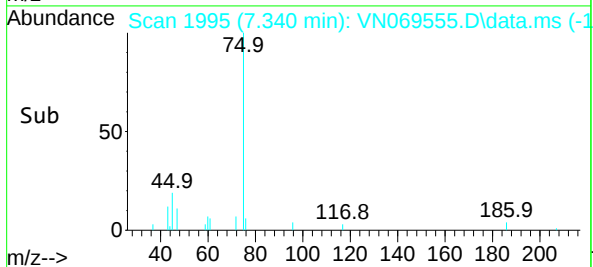
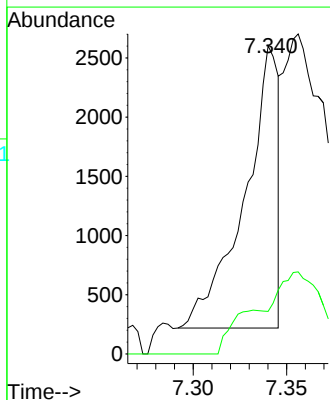
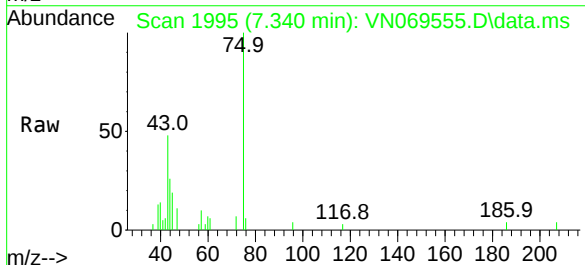
Acq: 18 Nov 2021 16:09

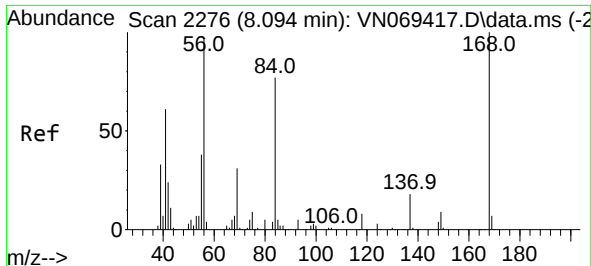
Tgt Ion: 43 Resp: 3003

Ion Ratio Lower Upper

43 100

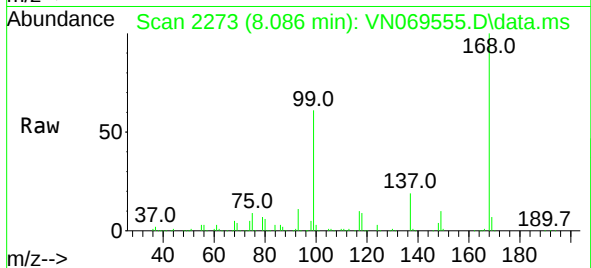
72 15.1 21.7 32.5#



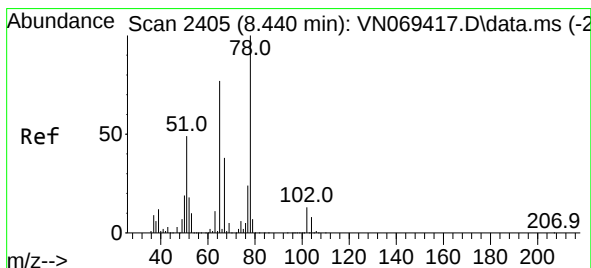
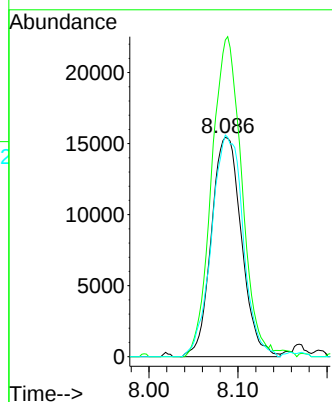
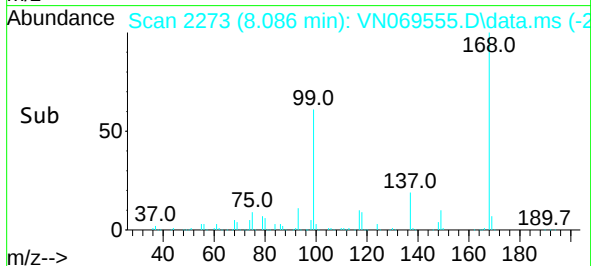


#31
Cyclohexane
Concen: 1.339 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.008 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09

Instrument :
MSVOA_N
ClientSampleId :

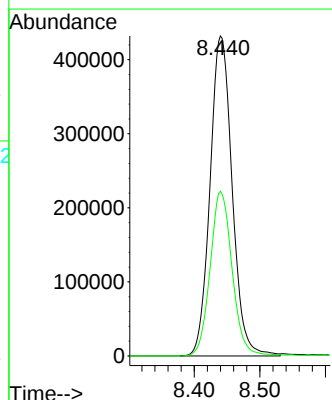
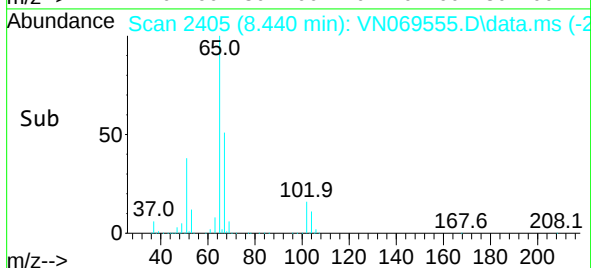
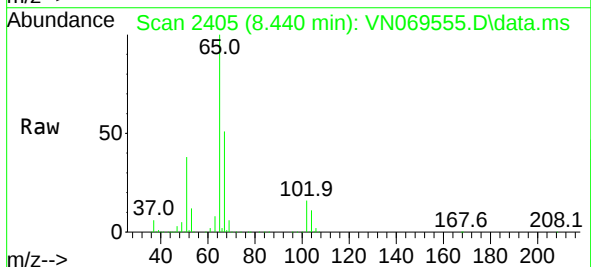


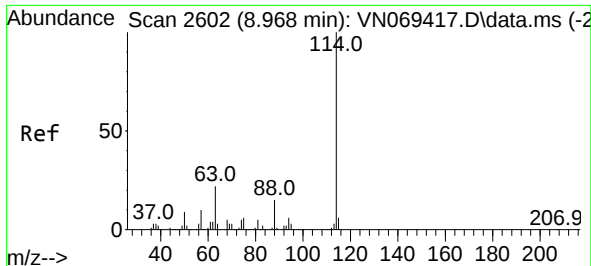
Tgt Ion: 56 Resp: 36325
Ion Ratio Lower Upper
56 100
69 144.3 27.1 40.7#
84 101.0 73.4 110.0



#33
1,2-Dichloroethane-d4
Concen: 50.986 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09

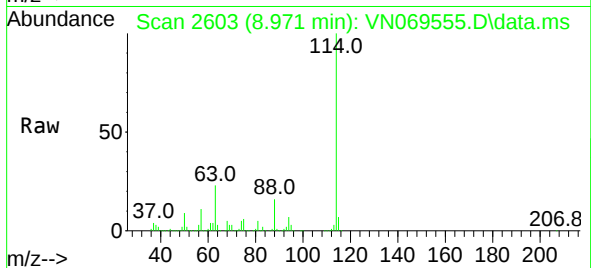
Tgt Ion: 65 Resp: 1012288
Ion Ratio Lower Upper
65 100
67 51.1 0.0 103.0



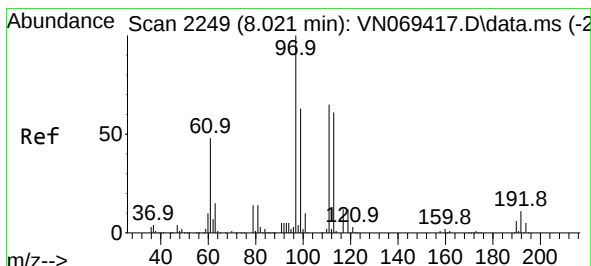
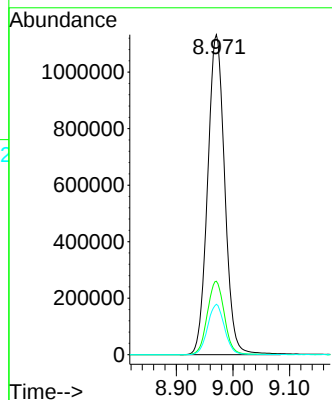
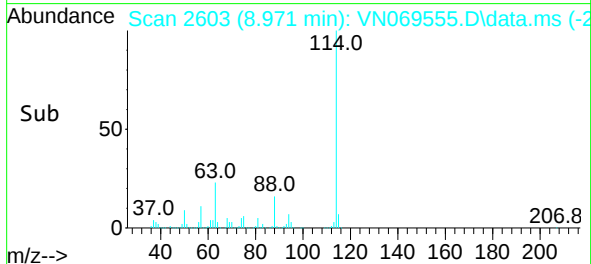


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2
Delta R.T. 0.003 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09

Instrument :
MSVOA_N
ClientSampleId :

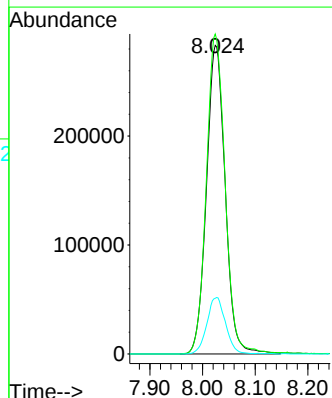
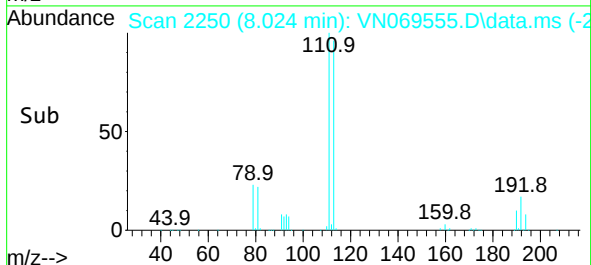
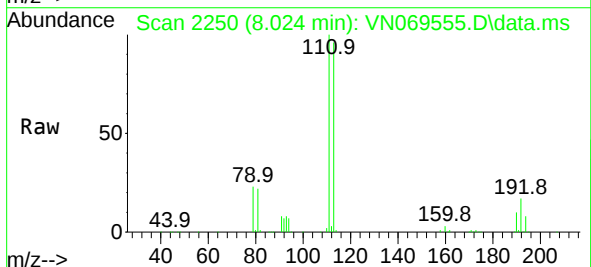


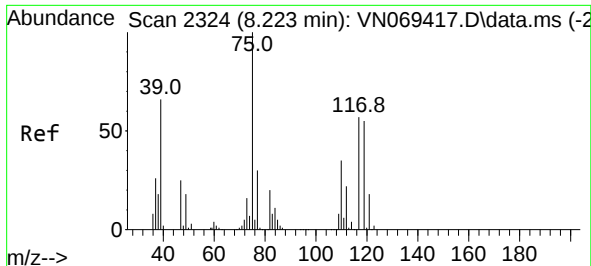
Tgt Ion:114 Resp: 2378920
Ion Ratio Lower Upper
114 100
63 23.0 0.0 37.8
88 15.7 0.0 27.4



#35
Dibromofluoromethane
Concen: 49.212 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09

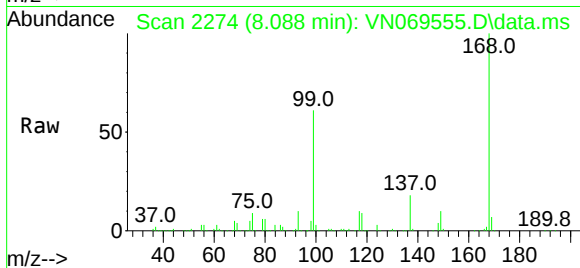
Tgt Ion:113 Resp: 702141
Ion Ratio Lower Upper
113 100
111 103.6 82.2 123.2
192 18.2 16.9 25.3



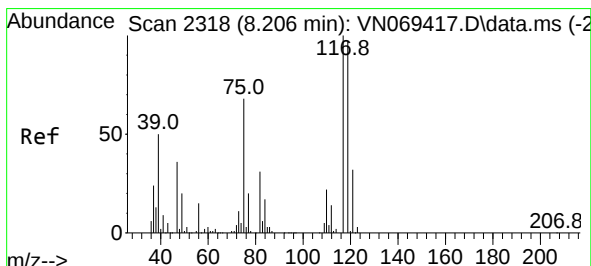
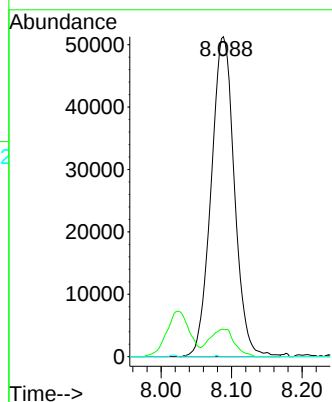
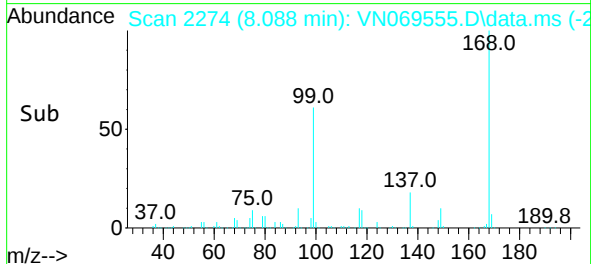


#36
1,1-Dichloropropene
Concen: 5.872 ug/l
RT: 8.088 min Scan# 211
Delta R.T. -0.135 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09

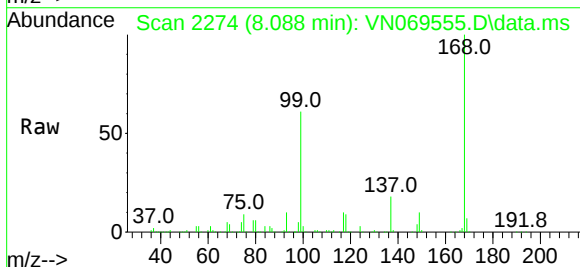
Instrument :
MSVOA_N
ClientSampleId :



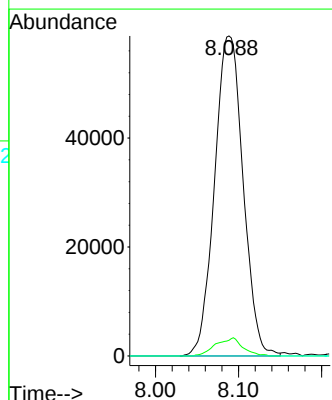
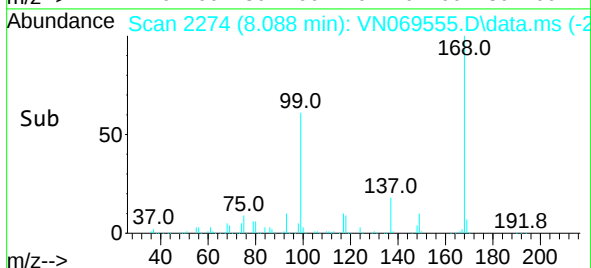
Tgt Ion: 75 Resp: 117534
Ion Ratio Lower Upper
75 100
110 9.3 18.4 55.2#
77 0.0 24.4 36.6#

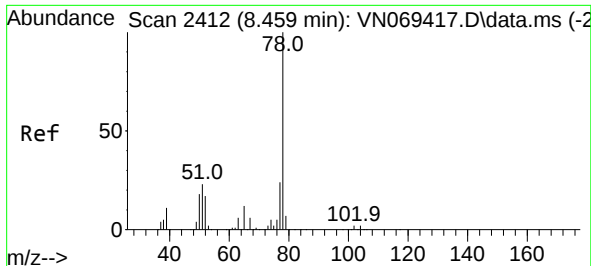


#38
Carbon Tetrachloride
Concen: 7.267 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.118 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09



Tgt Ion: 117 Resp: 140437
Ion Ratio Lower Upper
117 100
119 4.9 76.1 114.1#
121 0.0 24.2 36.2#

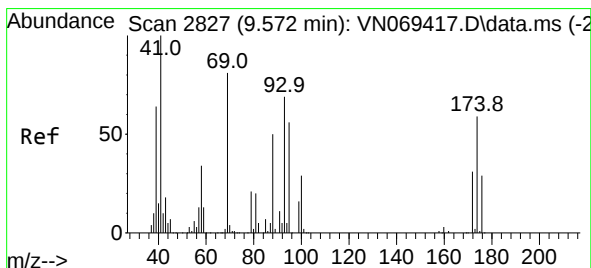
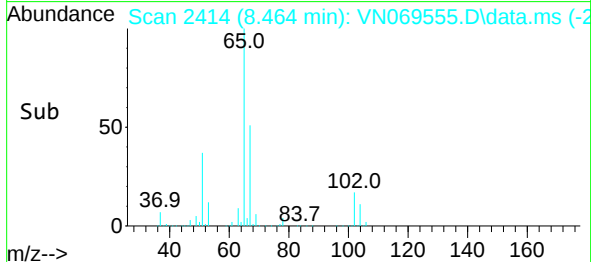
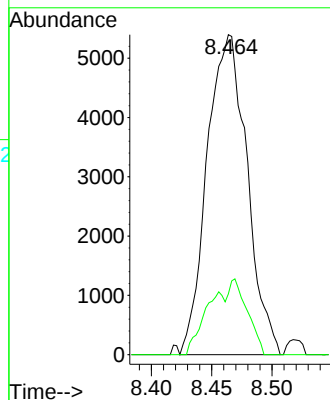
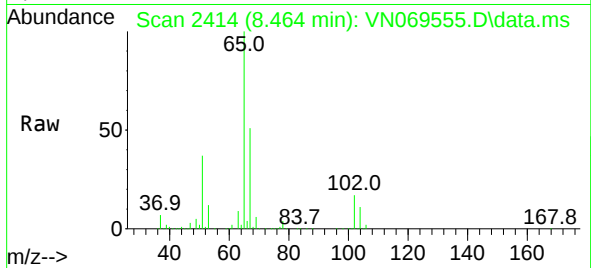




#40
Benzene
Concen: 0.201 ug/l
RT: 8.464 min Scan# 2412
Delta R.T. 0.005 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09

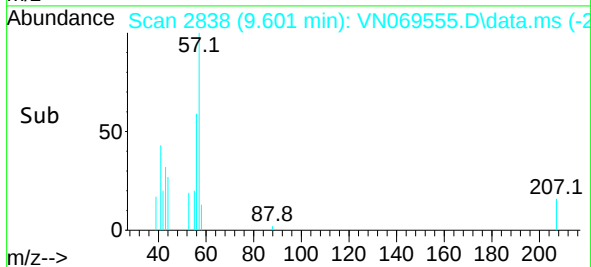
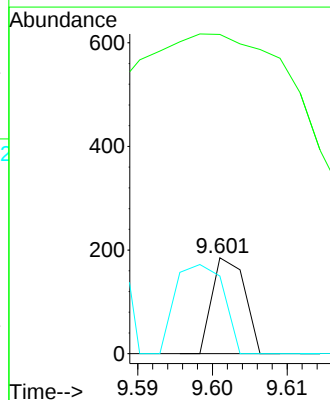
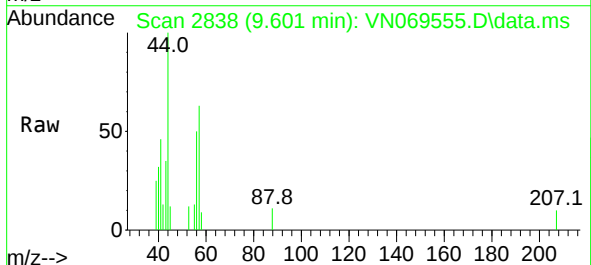
Instrument :
MSVOA_N
ClientSampleId :

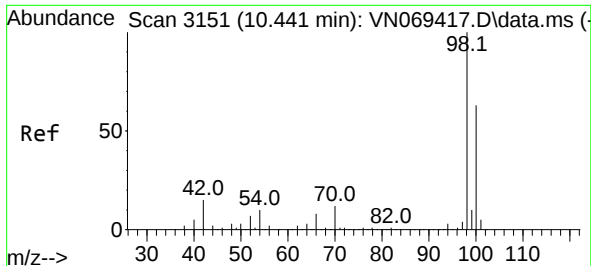
Tgt Ion: 78 Resp: 12429
Ion Ratio Lower Upper
78 100
77 19.0 18.6 27.8



#49
1,4-Dioxane
Concen: 39.192 ug/l
RT: 9.601 min Scan# 2838
Delta R.T. 0.029 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09

Tgt Ion: 88 Resp: 56
Ion Ratio Lower Upper
88 100
43 2805.4 23.4 35.2#
58 137.5 50.6 75.8#

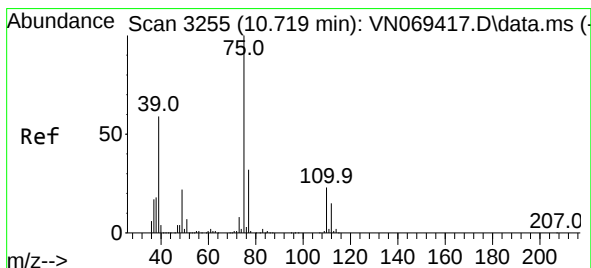
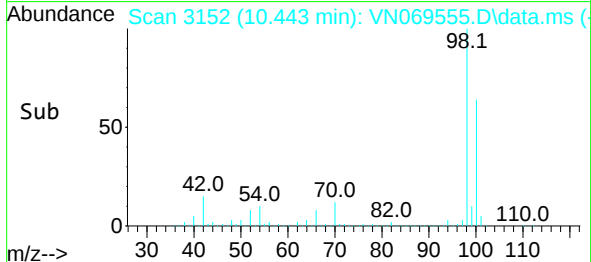
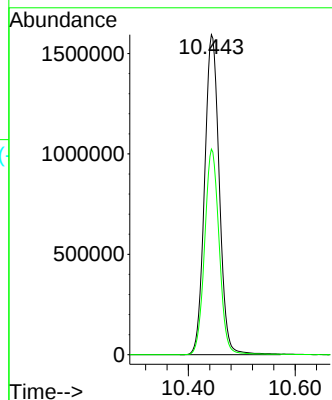
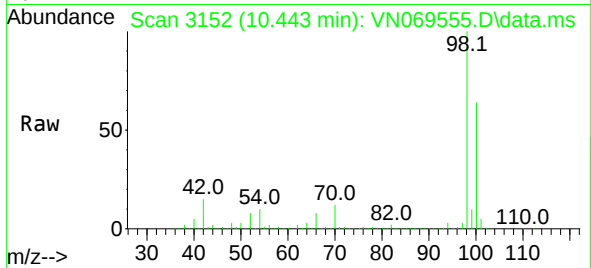




#50
Toluene-d8
Concen: 54.170 ug/l
RT: 10.443 min Scan# 3151
Delta R.T. 0.002 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09

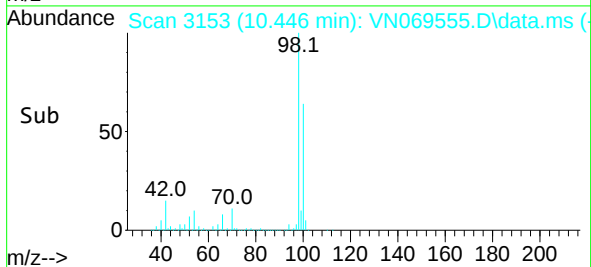
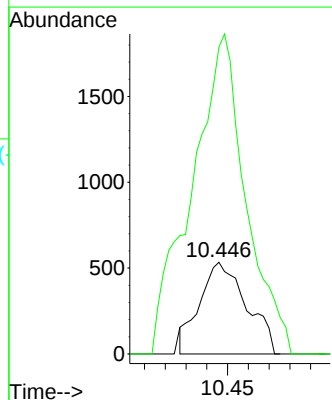
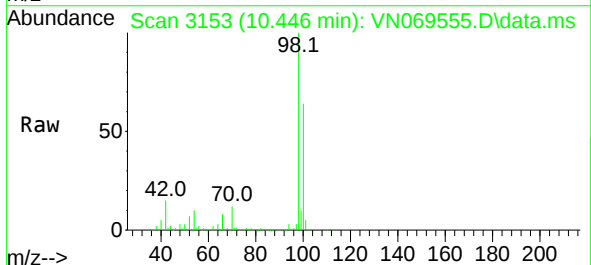
Instrument :
MSVOA_N
ClientSampleId :

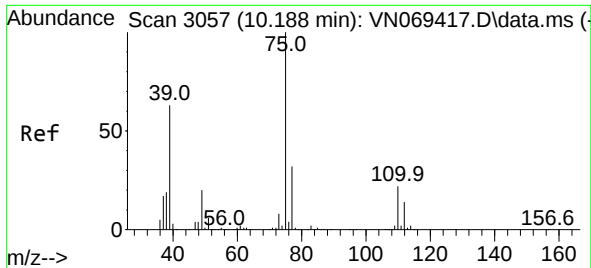
Tgt Ion: 98 Resp: 3039742
Ion Ratio Lower Upper
98 100
100 63.4 50.4 75.6



#53
t-1,3-Dichloropropene
Concen: 2.669 ug/l
RT: 10.446 min Scan# 3153
Delta R.T. -0.273 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09

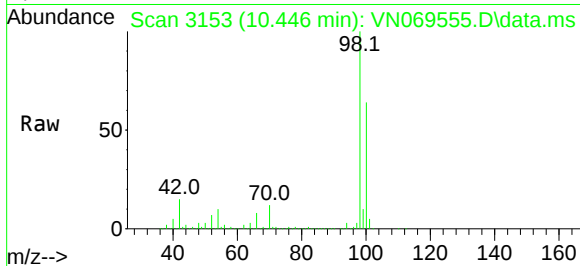
Tgt Ion: 75 Resp: 836
Ion Ratio Lower Upper
75 100
77 294.8 25.6 38.4#



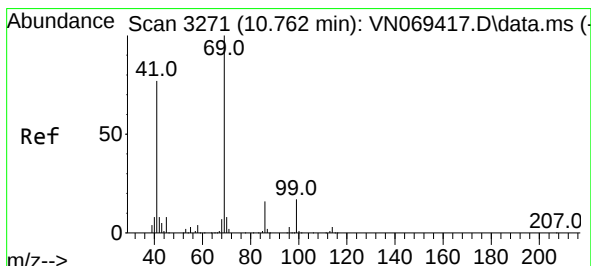
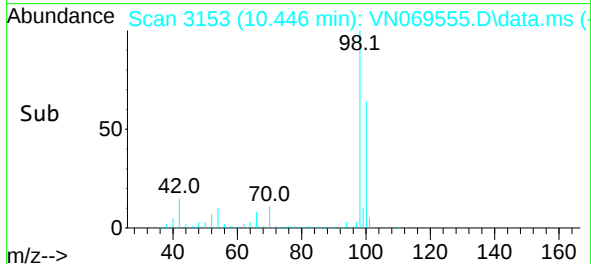
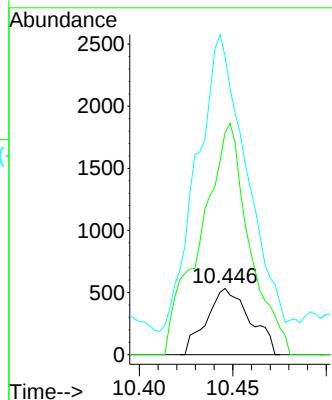


#54
 cis-1,3-Dichloropropene
 Concen: 1.764 ug/l
 RT: 10.446 min Scan# 3153
 Delta R.T. 0.258 min
 Lab File: VN069555.D
 Acq: 18 Nov 2021 16:09

Instrument :
 MSVOA_N
 ClientSampleId :

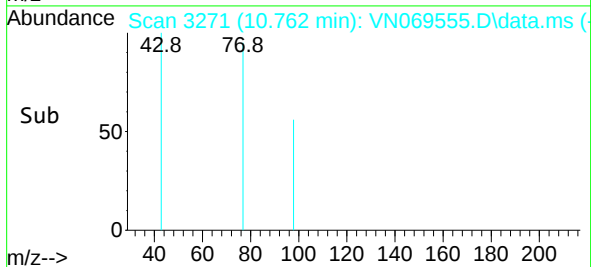
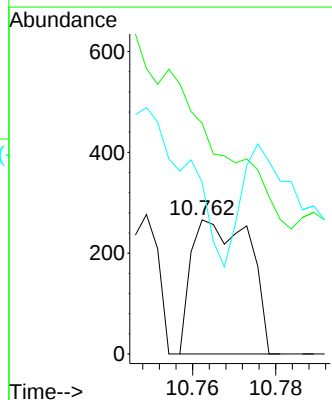
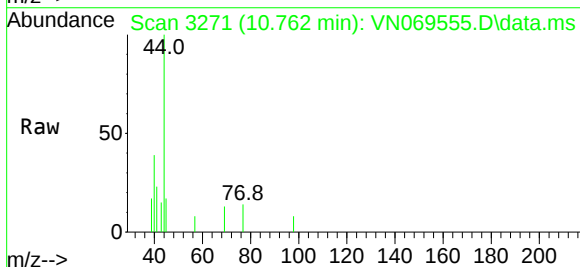


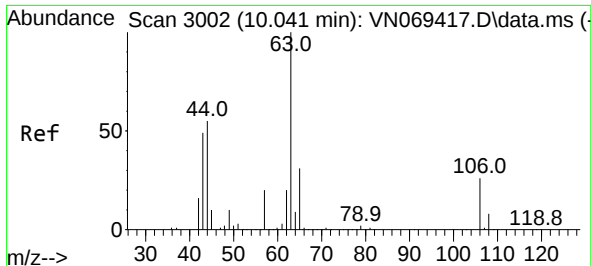
Tgt Ion: 75 Resp: 862
 Ion Ratio Lower Upper
 75 100
 77 294.8 26.4 39.6#
 39 373.6 42.5 63.7#



#56
 Ethyl methacrylate
 Concen: 2.061 ug/l
 RT: 10.762 min Scan# 3271
 Delta R.T. 0.000 min
 Lab File: VN069555.D
 Acq: 18 Nov 2021 16:09

Tgt Ion: 69 Resp: 259
 Ion Ratio Lower Upper
 69 100
 41 0.0 51.4 77.0#
 39 91.9 34.6 52.0#

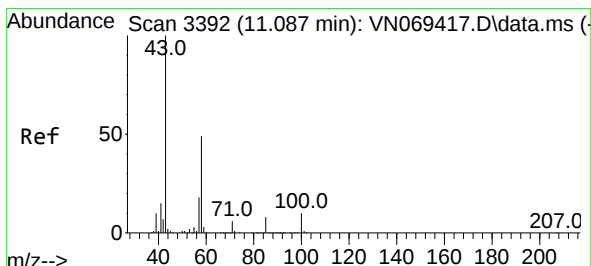
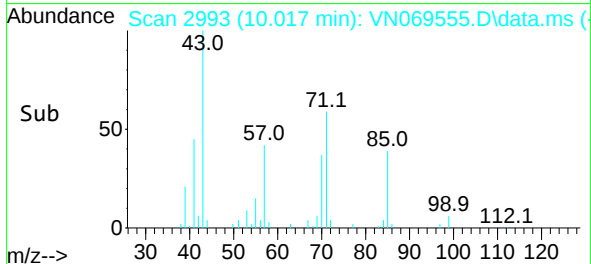
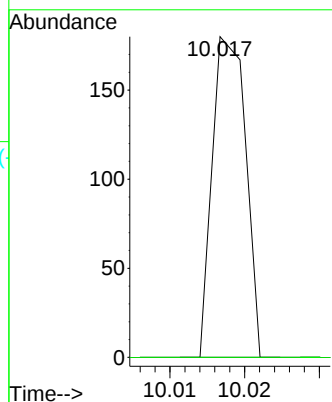
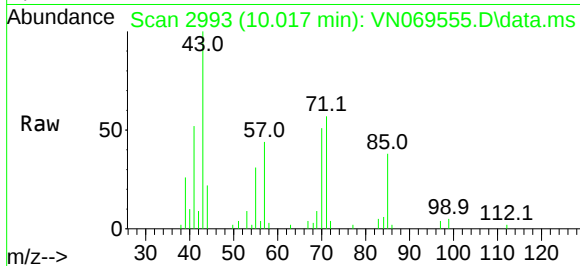




#58
2-Chloroethyl Vinyl ether
Concen: 22.777 ug/l
RT: 10.017 min Scan# 2993
Delta R.T. -0.024 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09

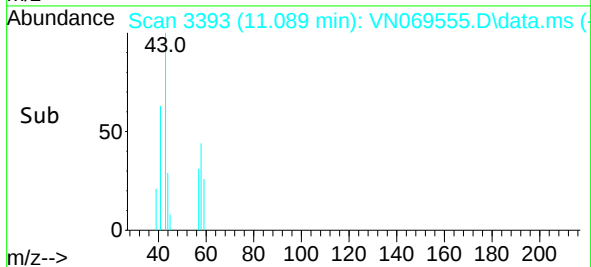
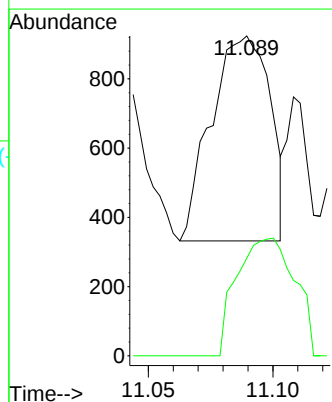
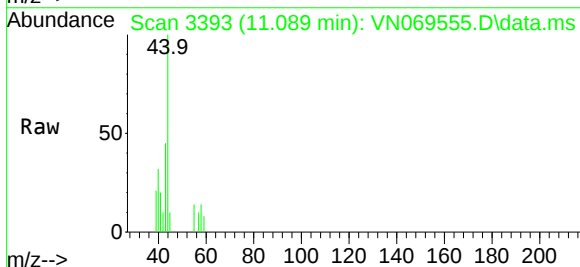
Instrument :
MSVOA_N
ClientSampleId :

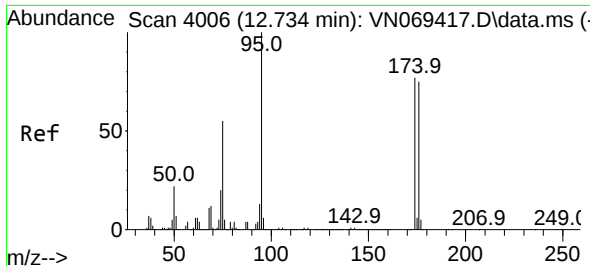
Tgt Ion: 63 Resp: 56
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#



#59
2-Hexanone
Concen: 7.981 ug/l
RT: 11.089 min Scan# 3393
Delta R.T. 0.002 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09

Tgt Ion: 43 Resp: 973
Ion Ratio Lower Upper
43 100
58 56.4 26.9 80.7

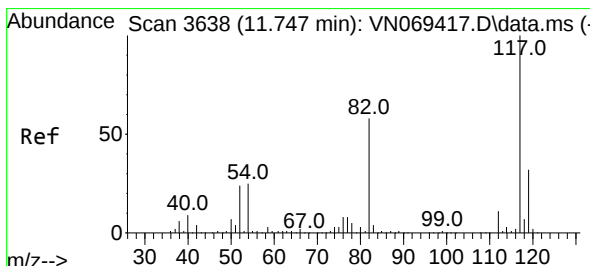
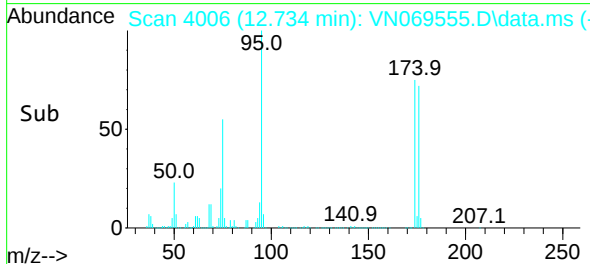
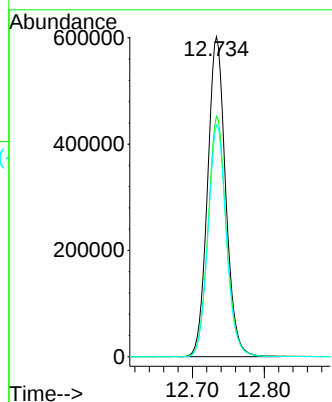
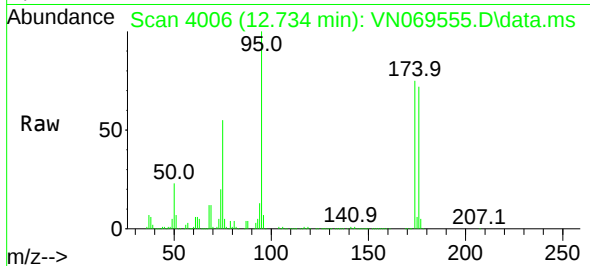




#62
4-Bromofluorobenzene
Concen: 51.109 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09

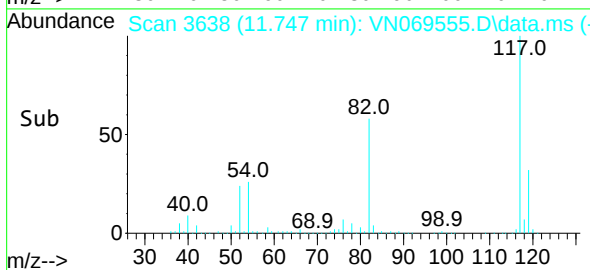
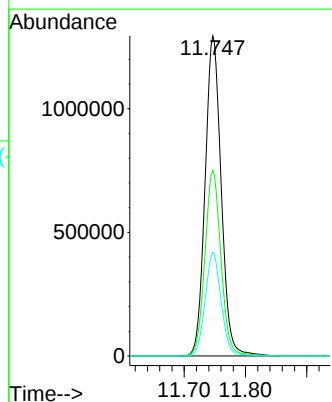
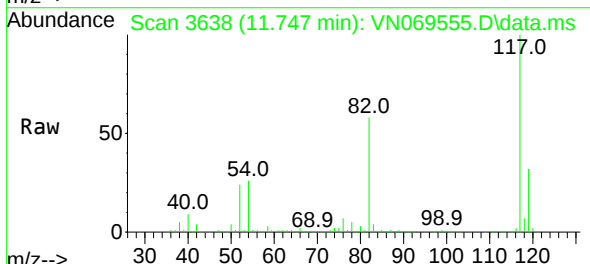
Instrument :
MSVOA_N
ClientSampleId :

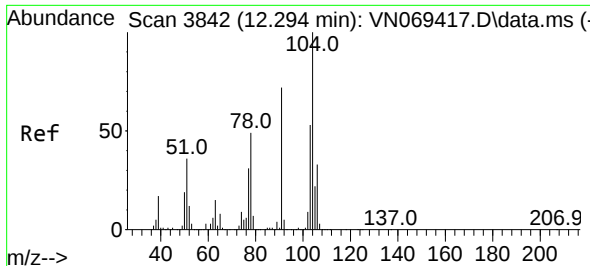
Tgt Ion: 95 Resp: 1053584
Ion Ratio Lower Upper
95 100
174 75.9 0.0 187.2
176 73.0 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. -0.000 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09

Tgt Ion: 117 Resp: 2365178
Ion Ratio Lower Upper
117 100
82 58.0 42.4 63.6
119 32.5 25.4 38.2

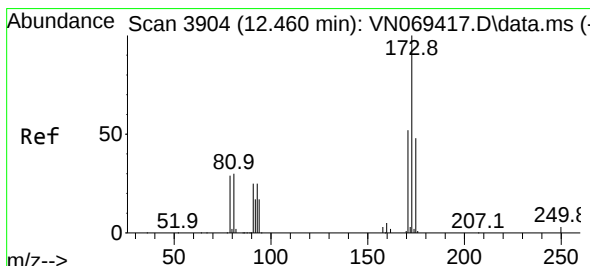
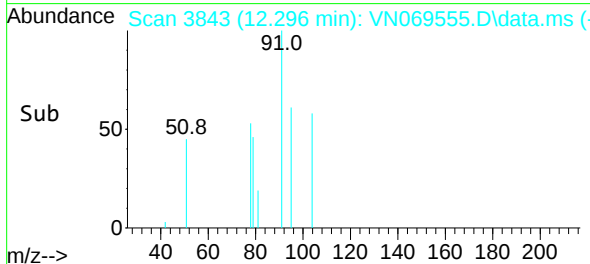
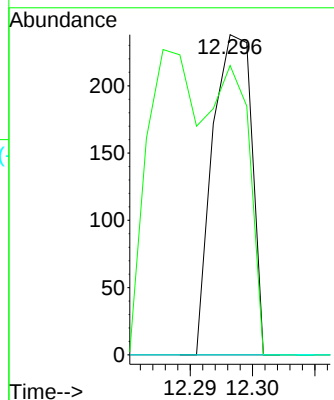
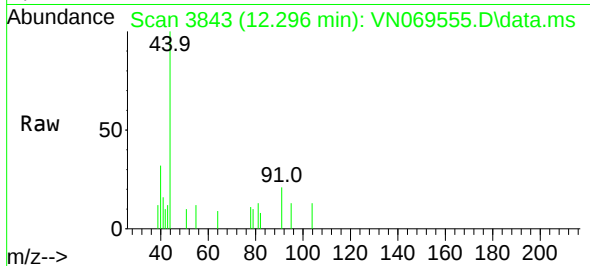




#70
Styrene
Concen: 1.522 ug/l
RT: 12.296 min Scan# 31
Delta R.T. 0.002 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09

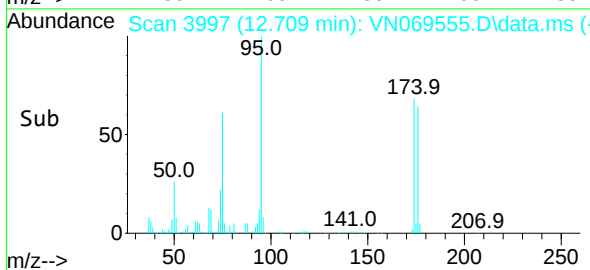
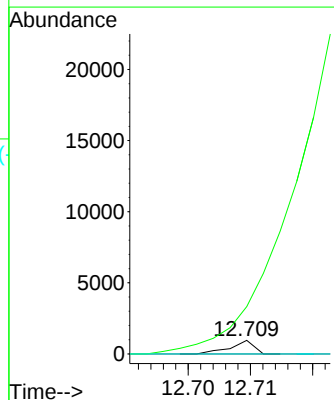
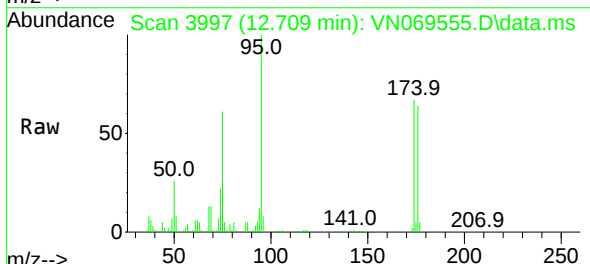
Instrument :
MSVOA_N
ClientSampleId :

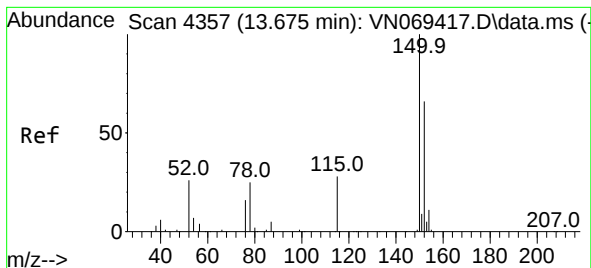
Tgt Ion:104 Resp: 103
Ion Ratio Lower Upper
104 100
78 122.3 38.7 58.1#
103 0.0 45.0 67.6#



#71
Bromoform
Concen: 3.445 ug/l
RT: 12.709 min Scan# 3997
Delta R.T. 0.249 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09

Tgt Ion:173 Resp: 250
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.678 min Scan# 41

Delta R.T. 0.003 min

Lab File: VN069555.D

Acq: 18 Nov 2021 16:09

Instrument :

MSVOA_N

ClientSampleId :

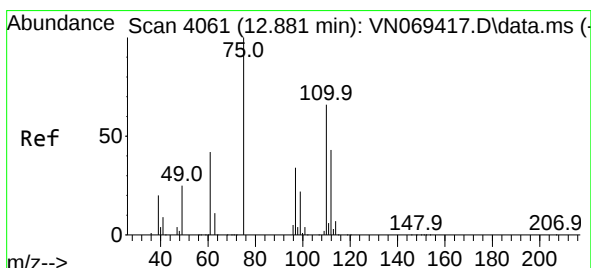
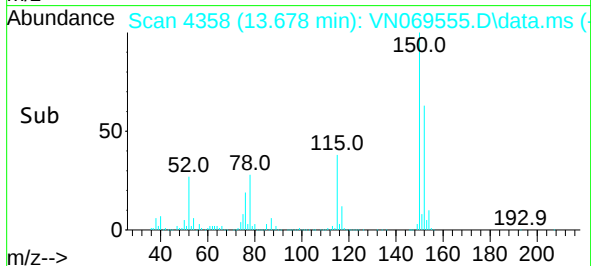
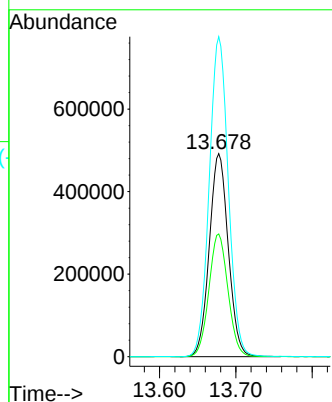
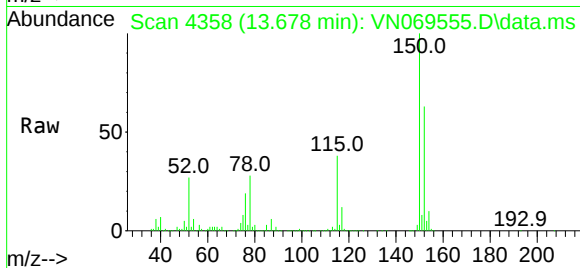
Tgt Ion:152 Resp: 851567

Ion Ratio Lower Upper

152 100

115 60.7 27.5 82.5

150 158.2 0.0 344.4



#76

1,2,3-Trichloropropane

Concen: 29.902 ug/l

RT: 12.734 min Scan# 4006

Delta R.T. -0.147 min

Lab File: VN069555.D

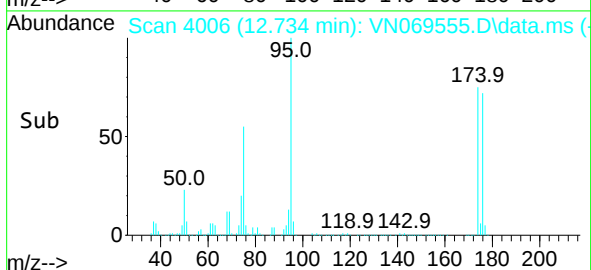
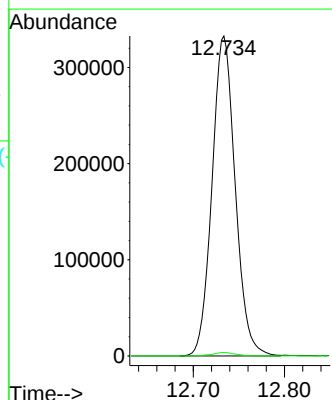
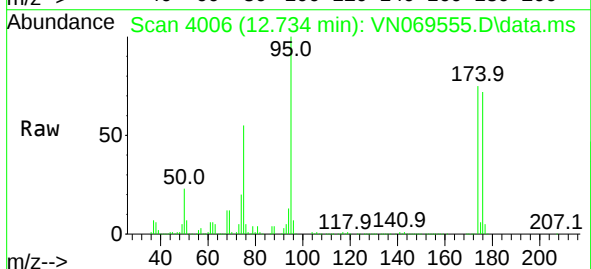
Acq: 18 Nov 2021 16:09

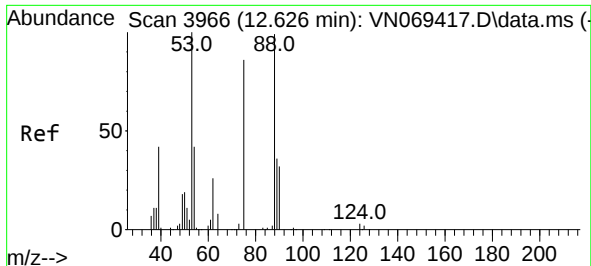
Tgt Ion: 75 Resp: 587639

Ion Ratio Lower Upper

75 100

77 1.1 82.6 247.8#

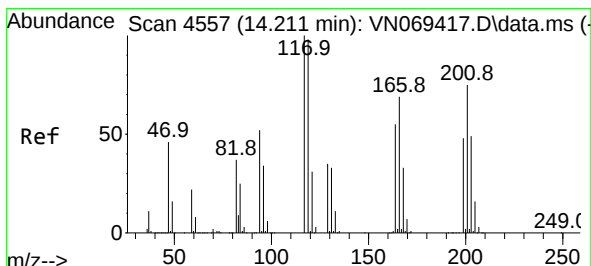
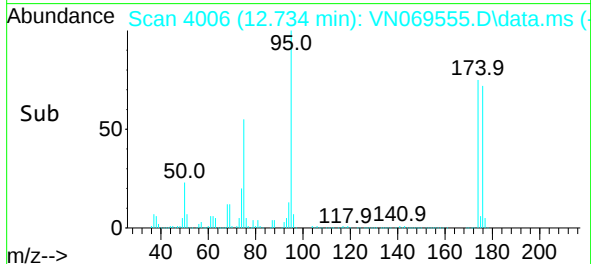
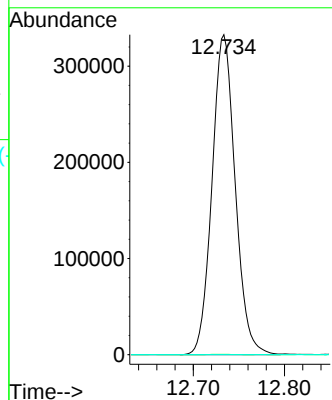
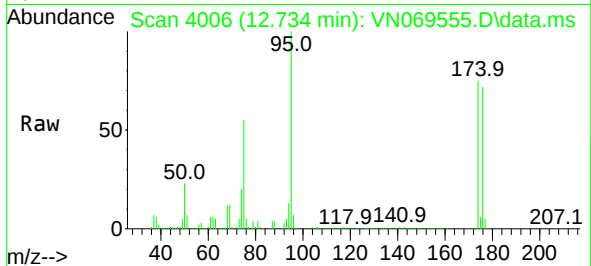




#81
trans-1,4-Dichloro-2-butene
Concen: 84.493 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.108 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09

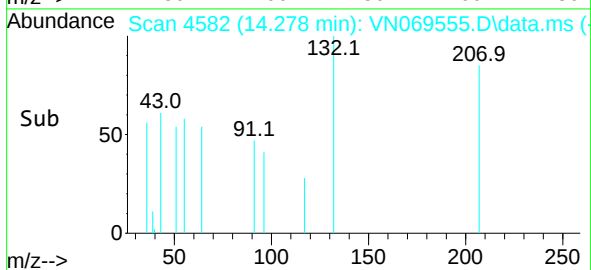
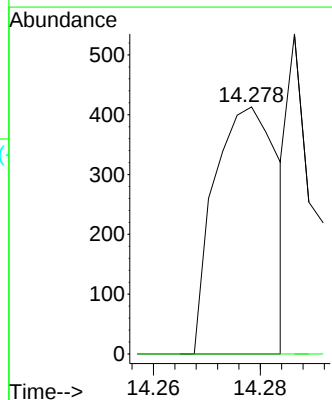
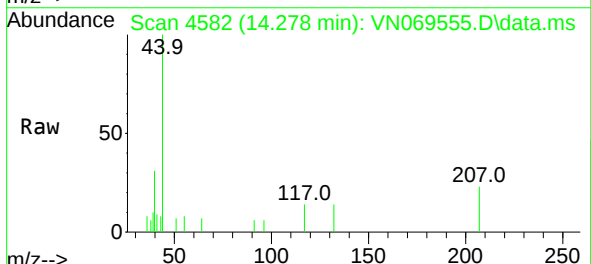
Instrument :
MSVOA_N
ClientSampleId :

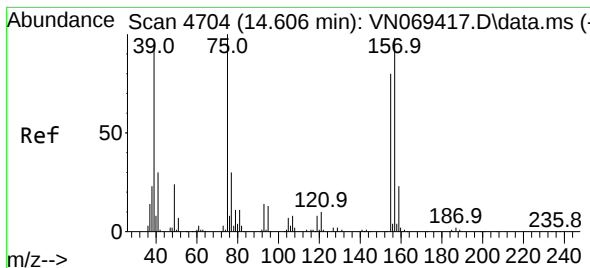
Tgt Ion: 75 Resp: 587639
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#



#90
Hexachloroethane
Concen: 2.195 ug/l
RT: 14.278 min Scan# 4582
Delta R.T. 0.067 min
Lab File: VN069555.D
Acq: 18 Nov 2021 16:09

Tgt Ion: 117 Resp: 338
Ion Ratio Lower Upper
117 100
201 0.0 43.9 131.6#

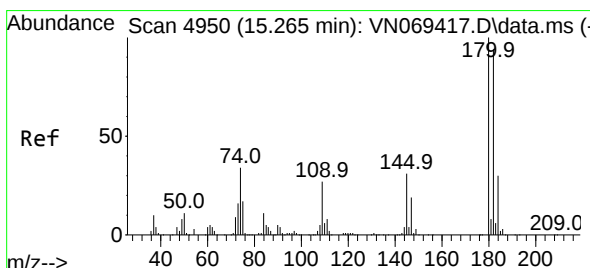
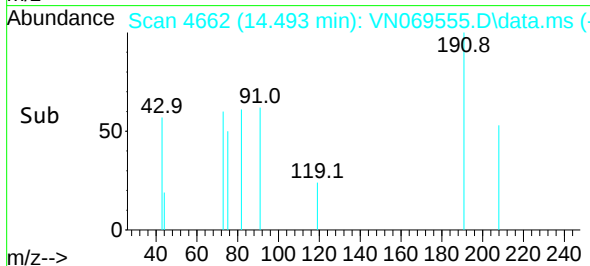
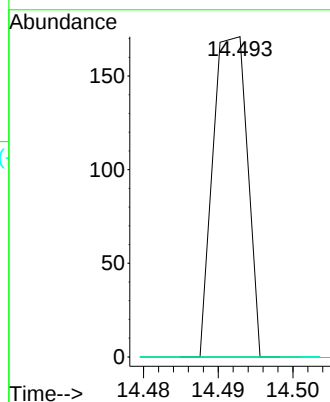
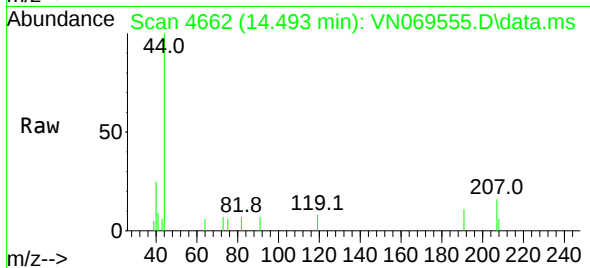




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.809 ug/l
 RT: 14.493 min Scan# 41
 Delta R.T. -0.113 min
 Lab File: VN069555.D
 Acq: 18 Nov 2021 16:09

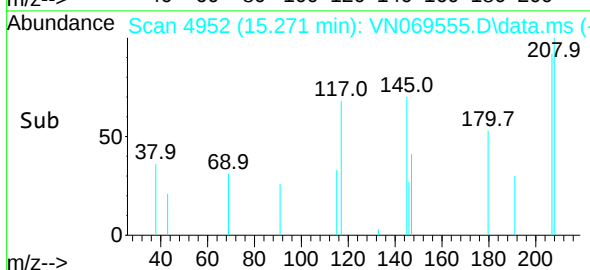
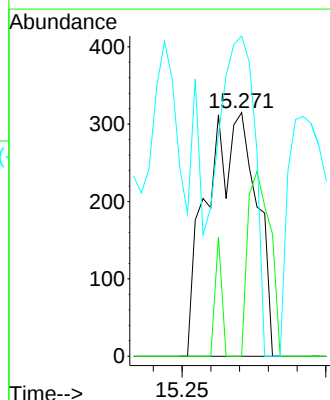
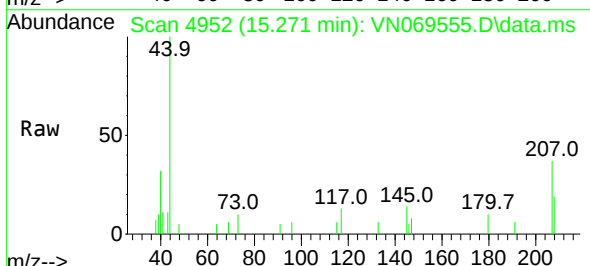
Instrument :
 MSVOA_N
 ClientSampleId :

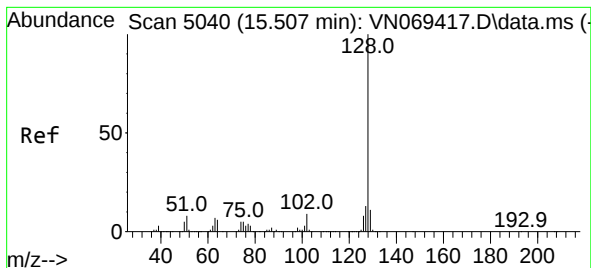
Tgt Ion: 75 Resp: 55
 Ion Ratio Lower Upper
 75 100
 155 0.0 46.9 140.7#
 157 0.0 60.6 181.7#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.140 ug/l
 RT: 15.271 min Scan# 4952
 Delta R.T. 0.006 min
 Lab File: VN069555.D
 Acq: 18 Nov 2021 16:09

Tgt Ion:180 Resp: 374
 Ion Ratio Lower Upper
 180 100
 182 34.5 48.3 144.9#
 145 90.9 14.5 43.5#





#95

Naphthalene

Concen: 4.515 ug/l

RT: 15.507 min Scan# 5040

Delta R.T. -0.000 min

Lab File: VN069555.D

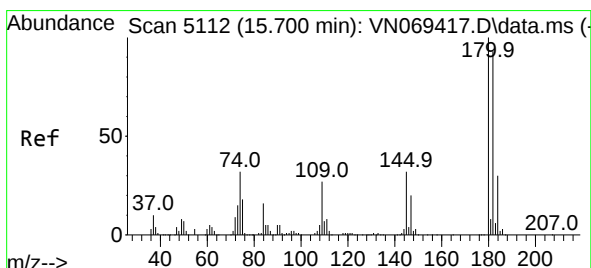
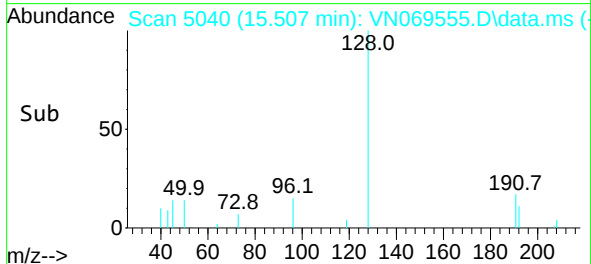
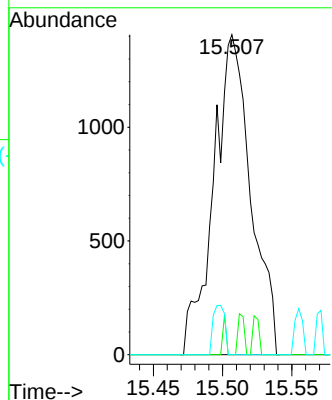
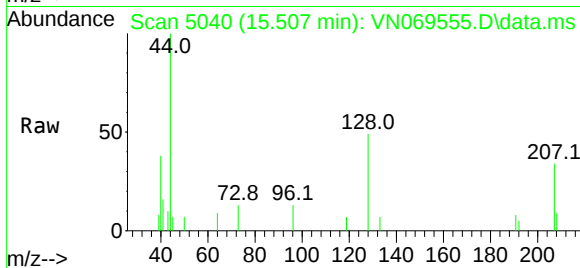
Acq: 18 Nov 2021 16:09

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	128	Resp:	2641
Ion Ratio	Lower	Upper	
128	100		
127	2.1	10.5	15.7#
129	0.0	8.7	13.1#



#96

1,2,3-Trichlorobenzene

Concen: 3.186 ug/l

RT: 15.705 min Scan# 5114

Delta R.T. 0.005 min

Lab File: VN069555.D

Acq: 18 Nov 2021 16:09

Tgt Ion:	180	Resp:	232
Ion Ratio	Lower	Upper	
180	100		
182	87.5	47.4	142.2
145	120.3	15.0	45.1#

