

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111921\
 Data File : VN069588.D
 Acq On : 19 Nov 2021 16:31
 Operator : JC/MD
 Sample : M4764-05 50X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 22 05:08:06 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)

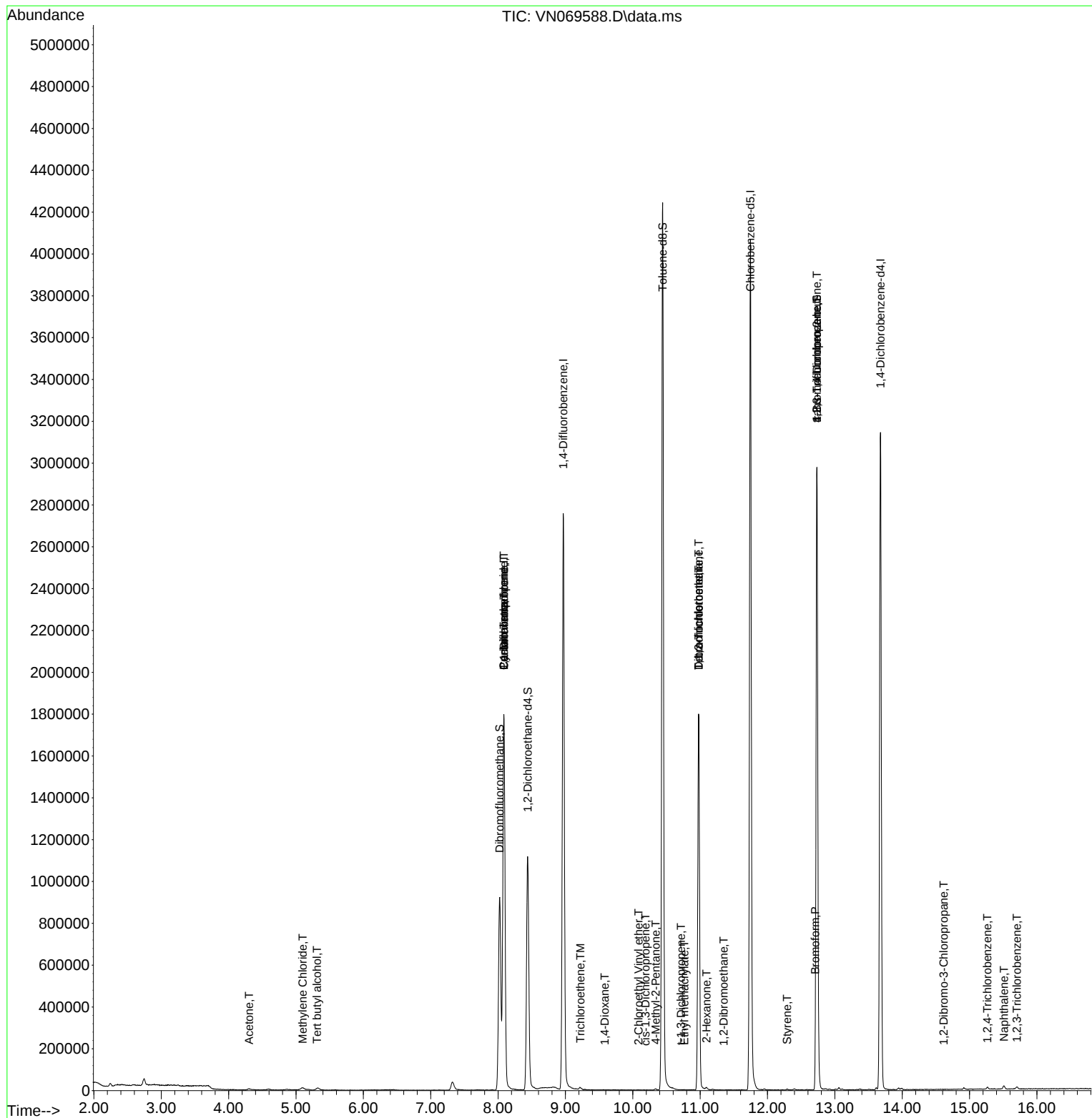
Internal Standards						
1) Pentafluorobenzene	8.086	168	1342999	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2326902	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	2299317	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	855548	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	979710	50.312	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 100.620%			
35) Dibromofluoromethane	8.024	113	680315	48.748	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 97.500%			
50) Toluene-d8	10.443	98	2913320	53.078	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 106.160%			
62) 4-Bromofluorobenzene	12.733	95	1031330	51.148	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 102.300%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.312	59	9980	2.844	ug/l #	71
13) Acrolein	4.041	56	701	Below Cal	#	45
16) Acetone	4.301	43	9461	0.900	ug/l #	88
20) Methylene Chloride	5.098	84	6388	0.429	ug/l	85
31) Cyclohexane	8.086	56	34244	1.287	ug/l #	21
36) 1,1-Dichloropropene	8.086	75	114062	5.826	ug/l #	44
38) Carbon Tetrachloride	8.086	117	136355	7.213	ug/l #	16
44) Trichloroethene	9.223	130	3023	0.209	ug/l	99
49) 1,4-Dioxane	9.582	88	78	39.248	ug/l #	1
51) 4-Methyl-2-Pentanone	10.341	43	5860	0.214	ug/l #	61
53) t-1,3-Dichloropropene	10.717	75	263	2.647	ug/l #	86
54) cis-1,3-Dichloropropene	10.188	75	137	1.738	ug/l #	37
55) 1,1,2-Trichloroethane	10.977	97	3569	0.235	ug/l #	28
56) Ethyl methacrylate	10.765	69	533	2.071	ug/l #	49
58) 2-Chloroethyl Vinyl ether	10.086	63	56	22.777	ug/l #	45
59) 2-Hexanone	11.095	43	7730	8.265	ug/l	88
60) Dibromochloromethane	10.977	129	382186	24.251	ug/l #	11
61) 1,2-Dibromoethane	11.350	107	53	1.074	ug/l #	2
64) Tetrachloroethene	10.977	164	399799	28.797	ug/l	95
70) Styrene	12.291	104	762	1.535	ug/l #	82
71) Bromoform	12.709	173	97	3.435	ug/l #	29
76) 1,2,3-Trichloropropane	12.733	75	582466	29.501	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.733	75	582466	83.437	ug/l #	5
92) 1,2-Dibromo-3-Chloropr...	14.614	75	89	1.817	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.263	180	2828	3.310	ug/l	92
95) Naphthalene	15.509	128	14500	4.799	ug/l	98
96) 1,2,3-Trichlorobenzene	15.702	180	3584	3.430	ug/l	94

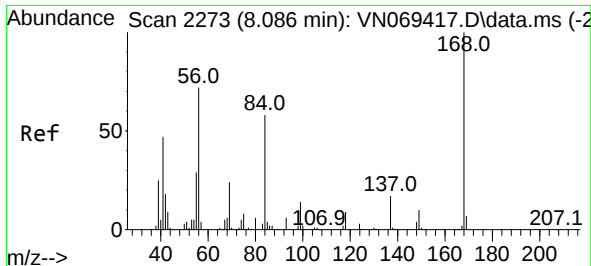
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN069588.D
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Quant Time: Nov 22 05:08:06 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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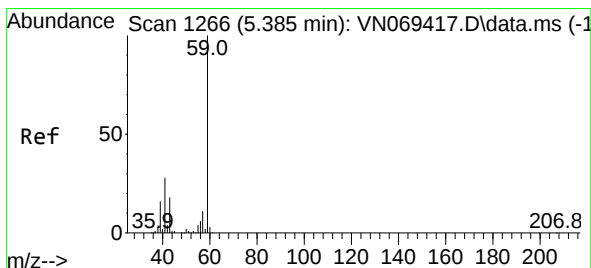
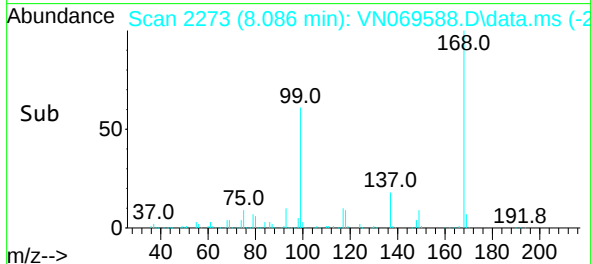
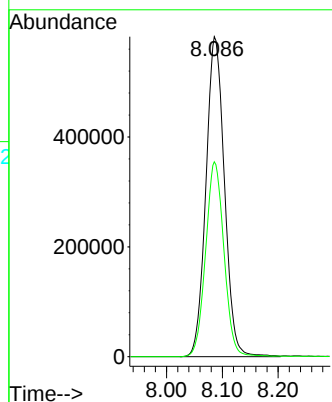
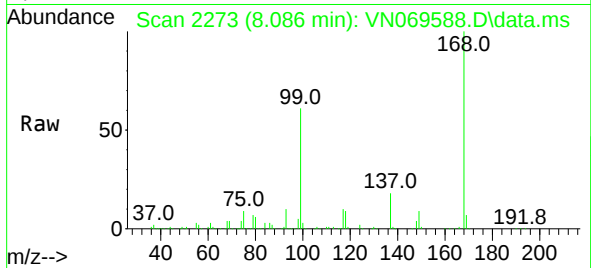




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

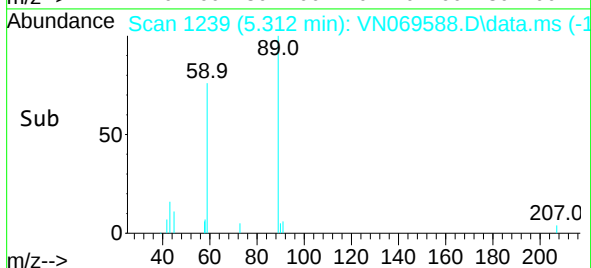
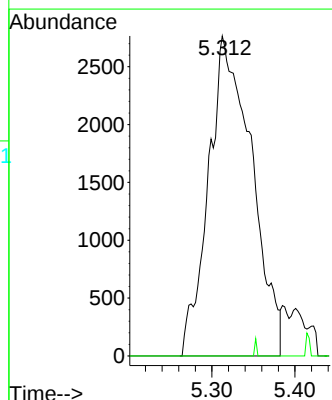
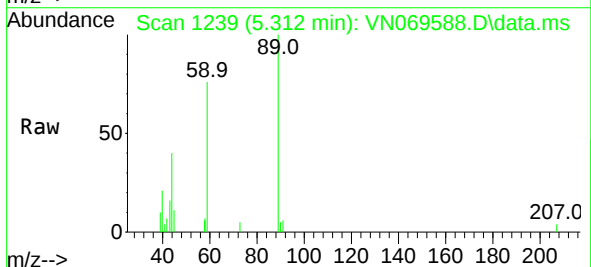
Instrument :
MSVOA_N
ClientSampleId :

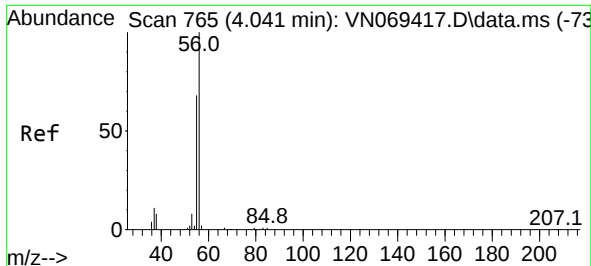
Tgt Ion:168 Resp: 1342999
Ion Ratio Lower Upper
168 100
99 60.9 41.3 61.9



#11
Tert butyl alcohol
Concen: 2.844 ug/l
RT: 5.312 min Scan# 1239
Delta R.T. -0.073 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

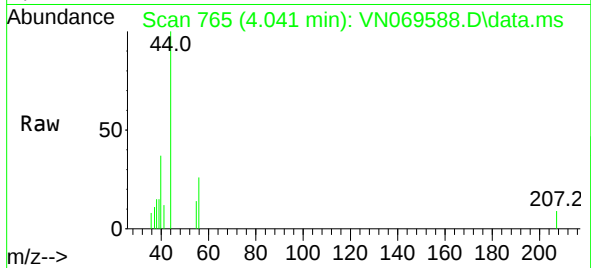
Tgt Ion: 59 Resp: 9980
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



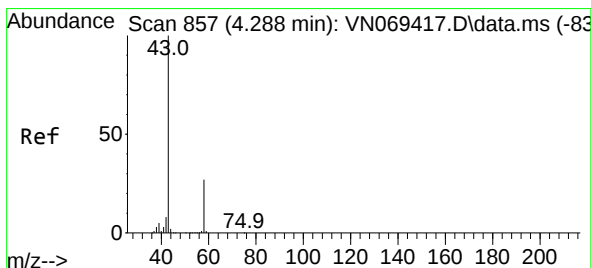
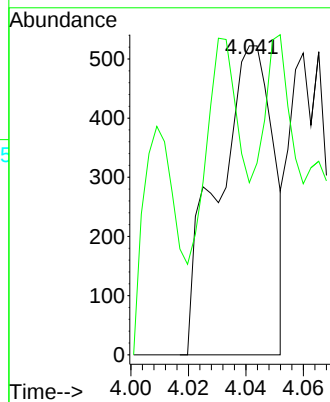
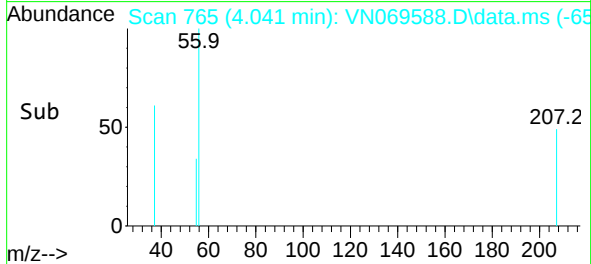


#13
Acrolein
Concen: Below Cal
RT: 4.041 min Scan# 701
Delta R.T. 0.000 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

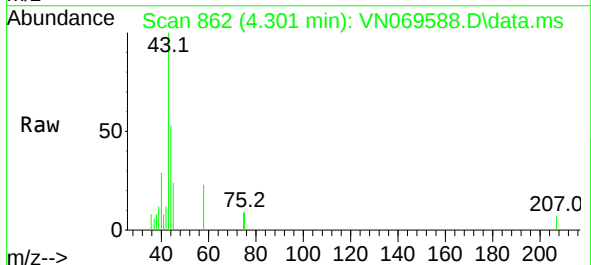
Instrument :
MSVOA_N
ClientSampleId :



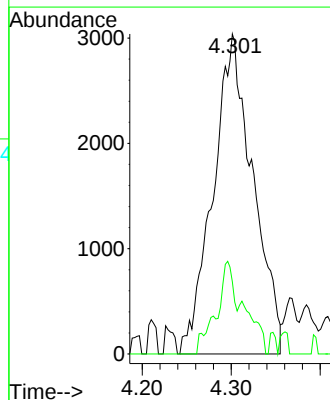
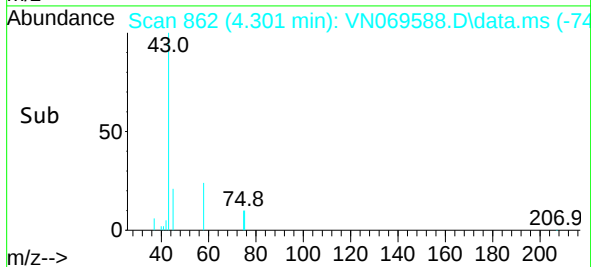
Tgt Ion: 56 Resp: 701
Ion Ratio Lower Upper
56 100
55 25.7 56.6 85.0#

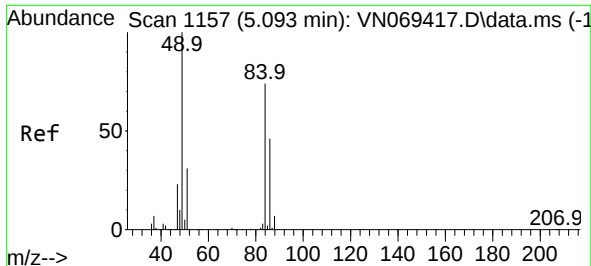


#16
Acetone
Concen: 0.900 ug/l
RT: 4.301 min Scan# 862
Delta R.T. 0.013 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31



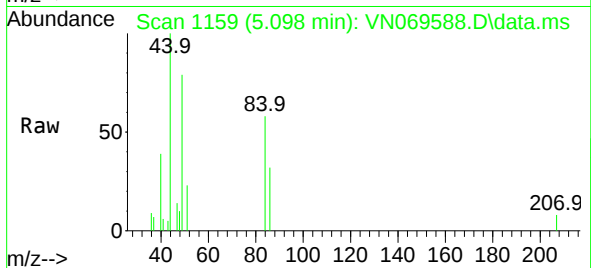
Tgt Ion: 43 Resp: 9461
Ion Ratio Lower Upper
43 100
58 22.6 23.1 34.7#



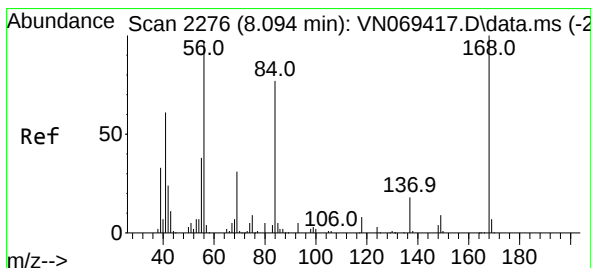
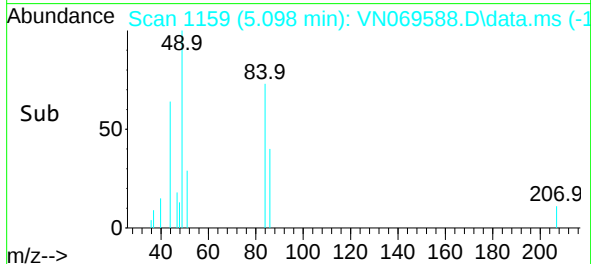
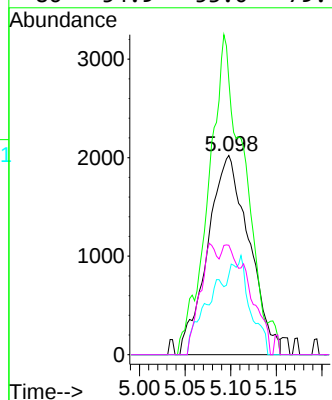


#20
Methylene Chloride
Concen: 0.429 ug/l
RT: 5.098 min Scan# 1157
Delta R.T. 0.005 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

Instrument :
MSVOA_N
ClientSampleId :

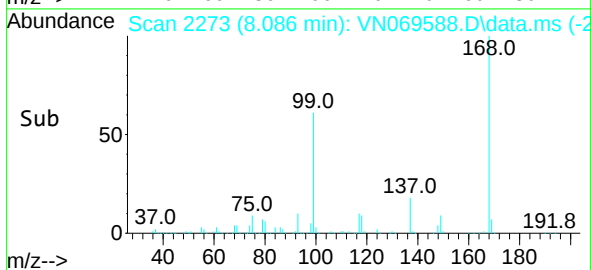
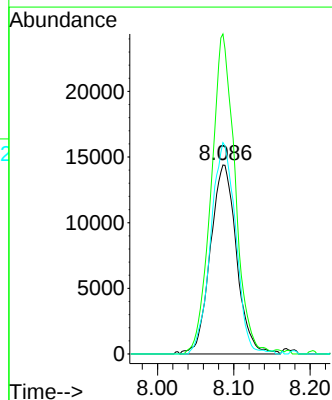
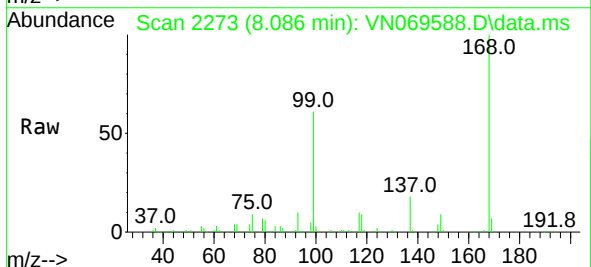


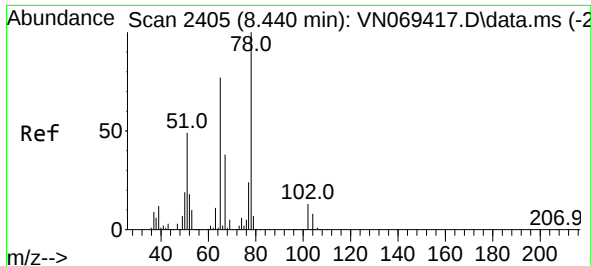
Tgt Ion:	84	Resp:	6388
Ion	Ratio	Lower	Upper
84	100		
49	137.7	93.5	140.3
51	40.1	29.4	44.2
86	54.9	53.0	79.4



#31
Cyclohexane
Concen: 1.287 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.008 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

Tgt Ion:	56	Resp:	34244
Ion	Ratio	Lower	Upper
56	100		
69	169.3	27.1	40.7#
84	111.8	73.4	110.0#





#33

1,2-Dichloroethane-d4

Concen: 50.312 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. -0.000 min

Lab File: VN069588.D

Acq: 19 Nov 2021 16:31

Instrument :

MSVOA_N

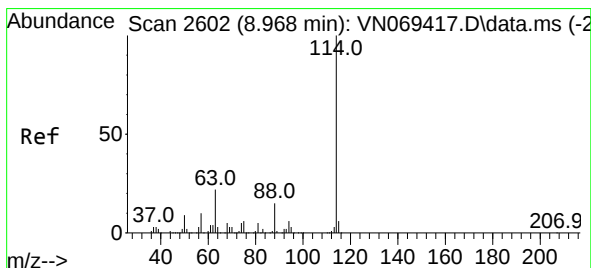
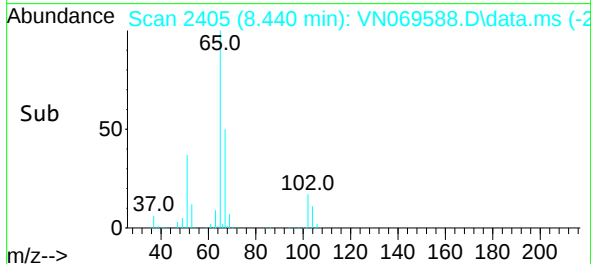
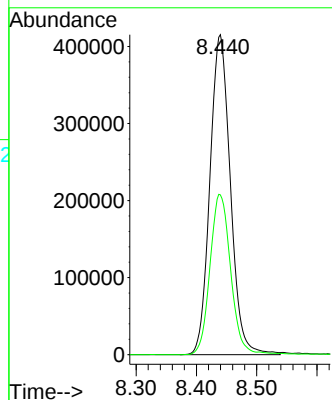
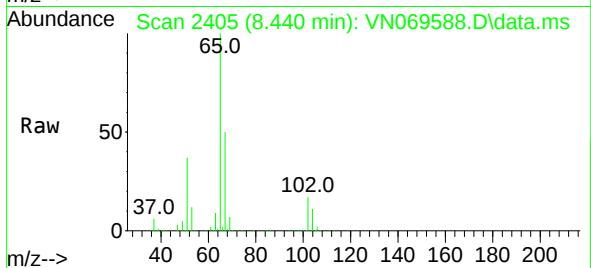
ClientSampleId :

Tgt Ion: 65 Resp: 979710

Ion Ratio Lower Upper

65 100

67 50.7 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. -0.000 min

Lab File: VN069588.D

Acq: 19 Nov 2021 16:31

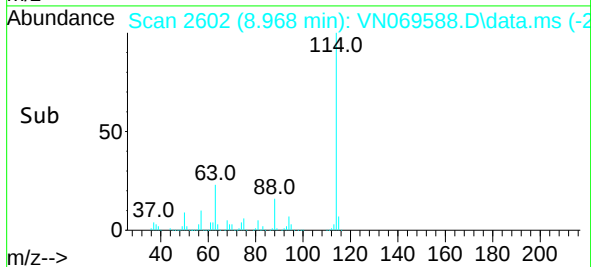
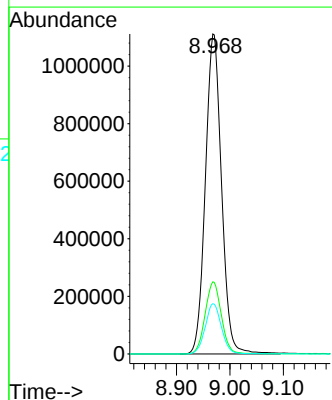
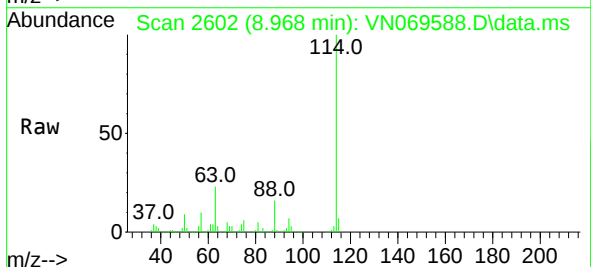
Tgt Ion: 114 Resp: 2326902

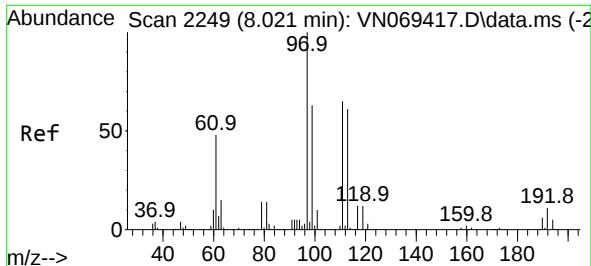
Ion Ratio Lower Upper

114 100

63 22.6 0.0 37.8

88 15.7 0.0 27.4





#35

Dibromofluoromethane

Concen: 48.748 ug/l

RT: 8.024 min Scan# 21

Delta R.T. 0.003 min

Lab File: VN069588.D

Acq: 19 Nov 2021 16:31

Instrument :

MSVOA_N

ClientSampleId :

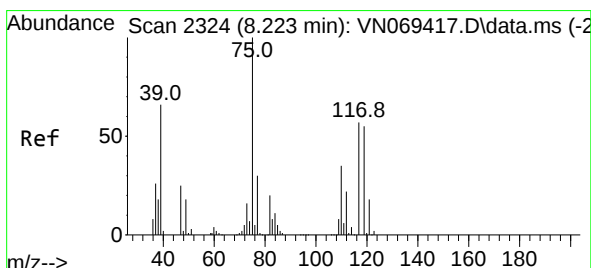
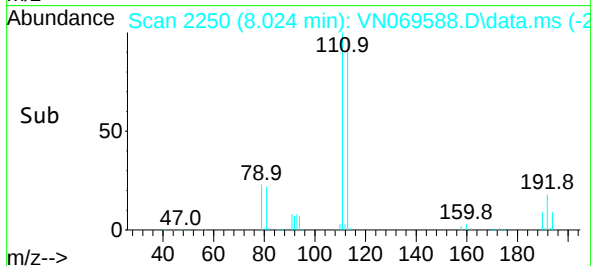
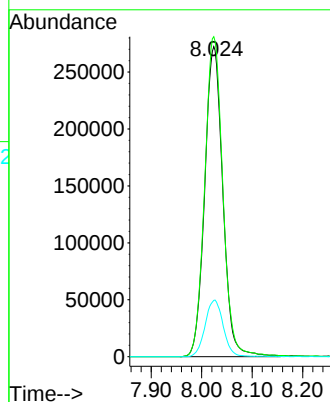
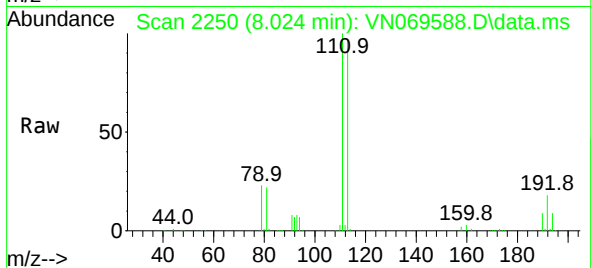
Tgt Ion:113 Resp: 680315

Ion Ratio Lower Upper

113 100

111 103.0 82.2 123.2

192 18.2 16.9 25.3



#36

1,1-Dichloropropene

Concen: 5.826 ug/l

RT: 8.086 min Scan# 2273

Delta R.T. -0.137 min

Lab File: VN069588.D

Acq: 19 Nov 2021 16:31

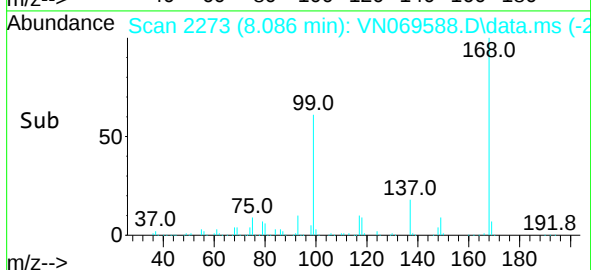
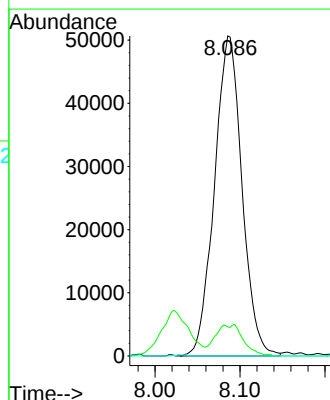
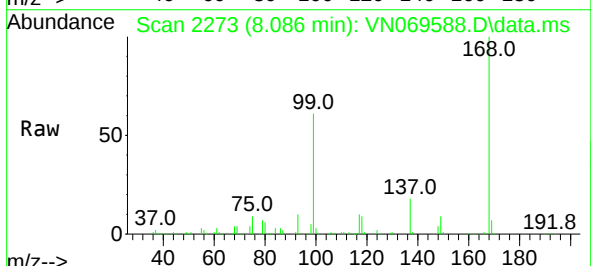
Tgt Ion: 75 Resp: 114062

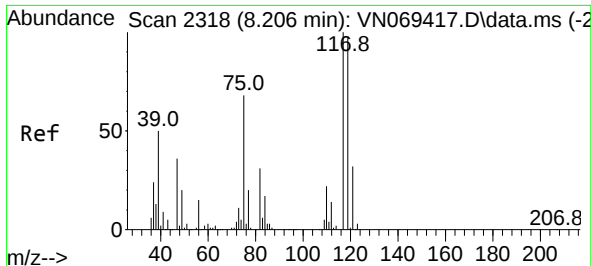
Ion Ratio Lower Upper

75 100

110 3.4 18.4 55.2#

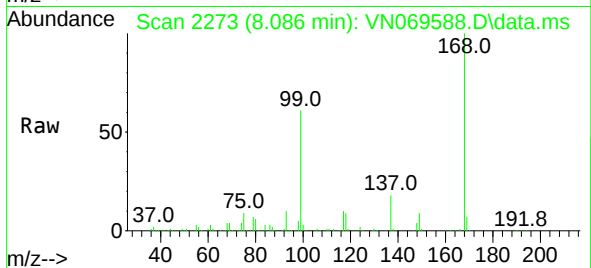
77 0.0 24.4 36.6#



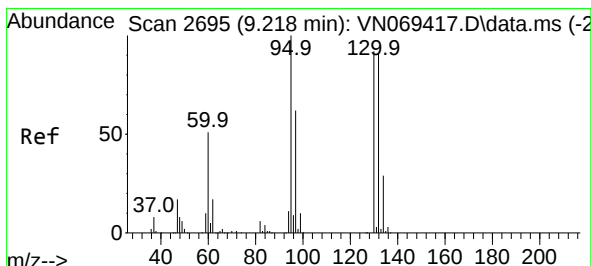
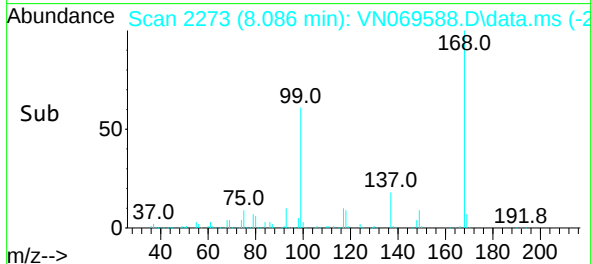
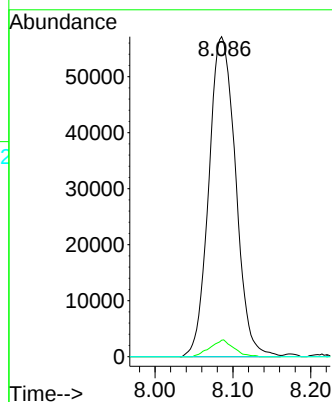


#38
Carbon Tetrachloride
Concen: 7.213 ug/l
RT: 8.086 min Scan# 211
Delta R.T. -0.120 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

Instrument :
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ClientSampleId :

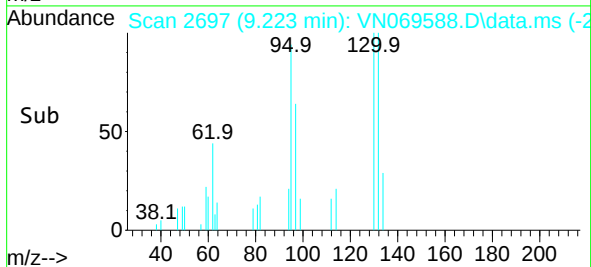
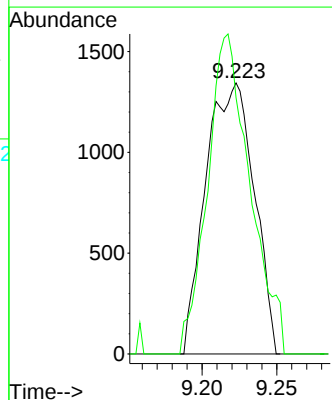
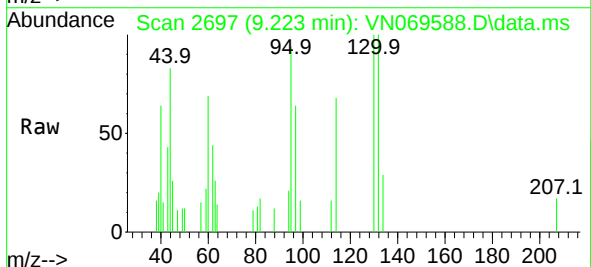


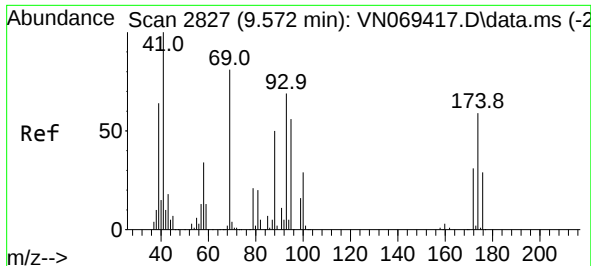
Tgt Ion:117 Resp: 136355
Ion Ratio Lower Upper
117 100
119 5.1 76.1 114.1#
121 0.0 24.2 36.2#



#44
Trichloroethene
Concen: 0.209 ug/l
RT: 9.223 min Scan# 2697
Delta R.T. 0.005 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

Tgt Ion:130 Resp: 3023
Ion Ratio Lower Upper
130 100
95 94.6 0.0 191.2





#49

1,4-Dioxane

Concen: 39.248 ug/l

RT: 9.582 min Scan# 21

Delta R.T. 0.010 min

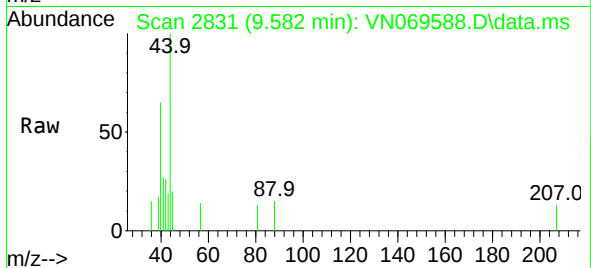
Lab File: VN069588.D

Acq: 19 Nov 2021 16:31

Instrument :

MSVOA_N

ClientSampleId :



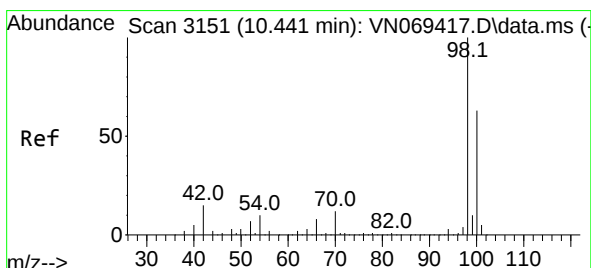
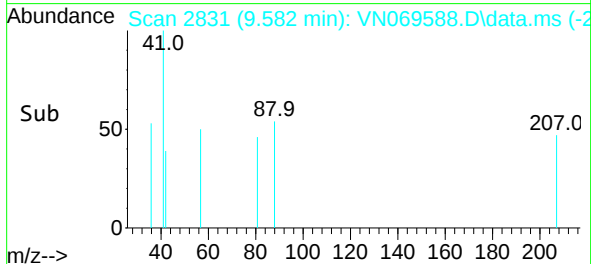
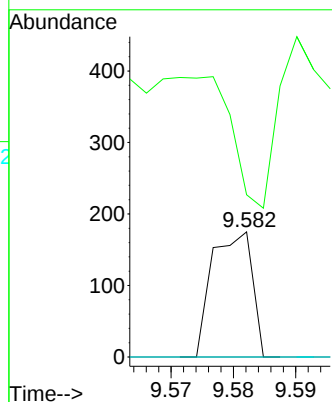
Tgt Ion: 88 Resp: 78

Ion Ratio Lower Upper

88 100

43 265.4 23.4 35.2#

58 0.0 50.6 75.8#



#50

Toluene-d8

Concen: 53.078 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.002 min

Lab File: VN069588.D

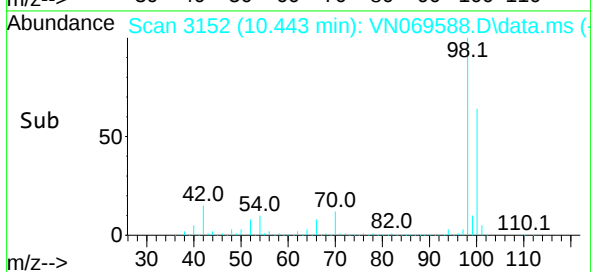
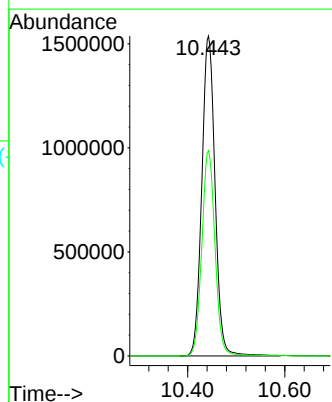
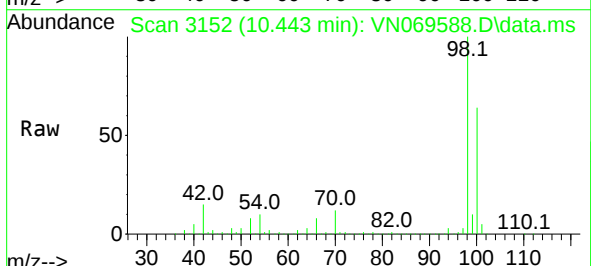
Acq: 19 Nov 2021 16:31

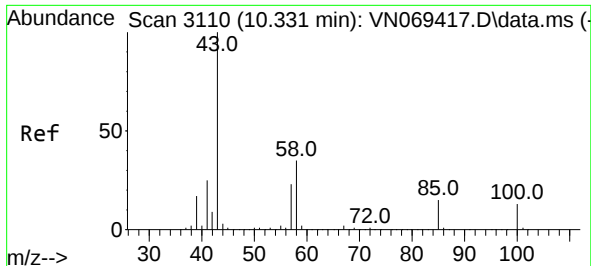
Tgt Ion: 98 Resp: 2913320

Ion Ratio Lower Upper

98 100

100 63.8 50.4 75.6

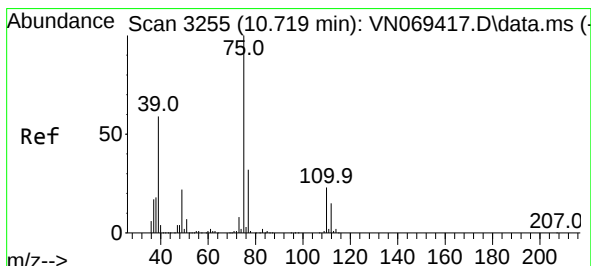
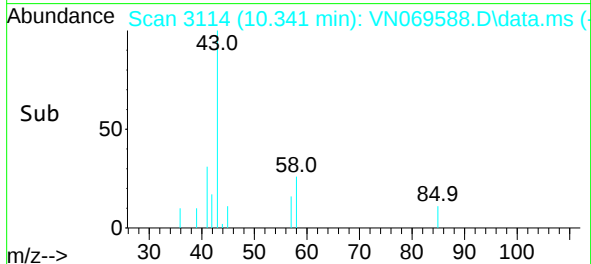
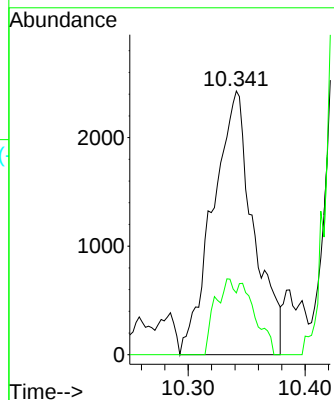
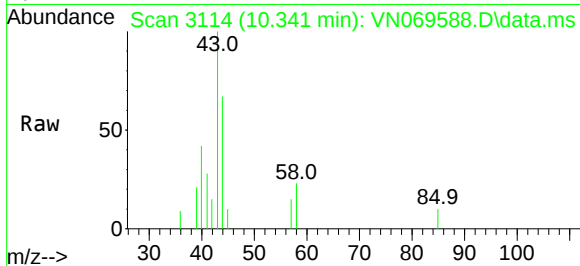




#51
4-Methyl-2-Pentanone
Concen: 0.214 ug/l
RT: 10.341 min Scan# 3114
Delta R.T. 0.010 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

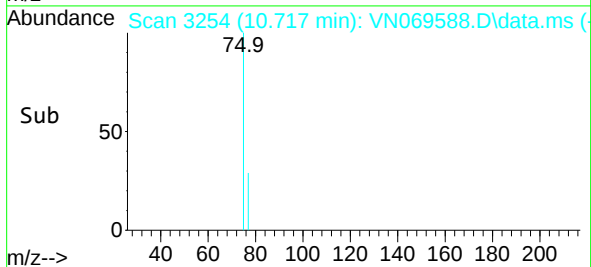
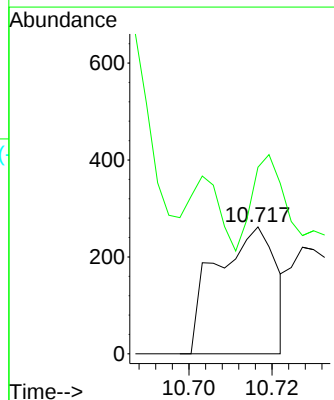
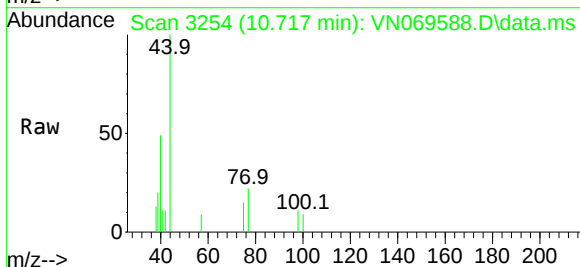
Instrument :
MSVOA_N
ClientSampleId :

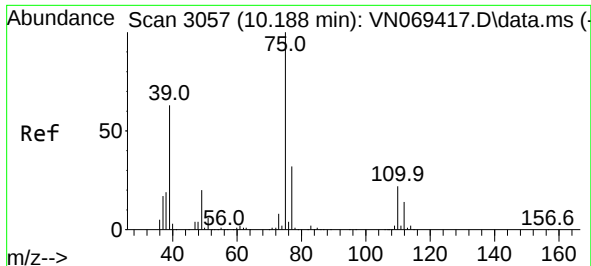
Tgt Ion: 43 Resp: 5860
Ion Ratio Lower Upper
43 100
58 14.4 30.4 45.6#



#53
t-1,3-Dichloropropene
Concen: 2.647 ug/l
RT: 10.717 min Scan# 3254
Delta R.T. -0.002 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

Tgt Ion: 75 Resp: 263
Ion Ratio Lower Upper
75 100
77 39.7 25.6 38.4#

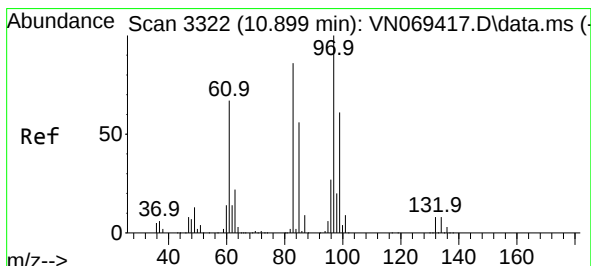
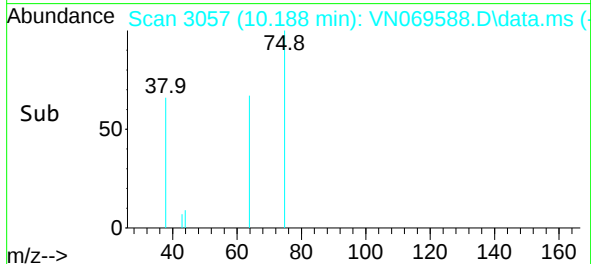
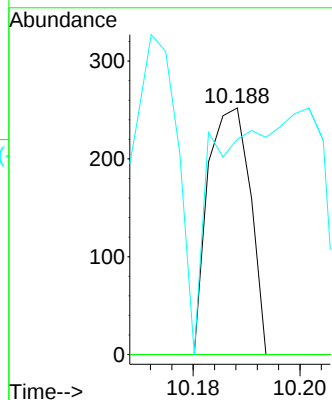
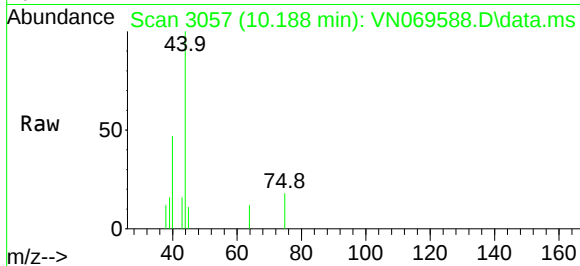




#54
 cis-1,3-Dichloropropene
 Concen: 1.738 ug/l
 RT: 10.188 min Scan# 3057
 Delta R.T. 0.000 min
 Lab File: VN069588.D
 Acq: 19 Nov 2021 16:31

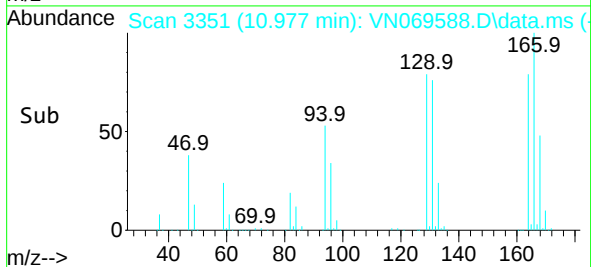
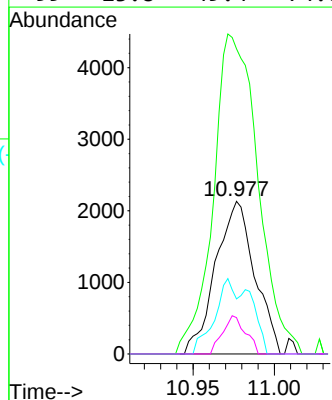
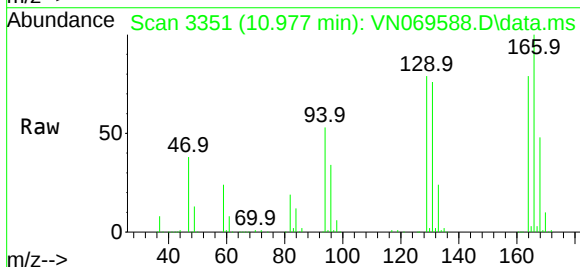
Instrument :
 MSVOA_N
 ClientSampleId :

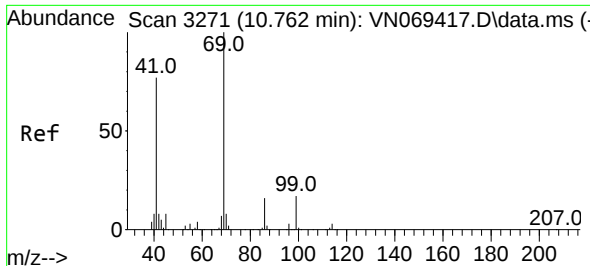
Tgt Ion: 75 Resp: 137
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.4 39.6#
 39 6.0 42.5 63.7#



#55
 1,1,2-Trichloroethane
 Concen: 0.235 ug/l
 RT: 10.977 min Scan# 3351
 Delta R.T. 0.078 min
 Lab File: VN069588.D
 Acq: 19 Nov 2021 16:31

Tgt Ion: 97 Resp: 3569
 Ion Ratio Lower Upper
 97 100
 83 191.8 67.8 101.6#
 85 36.1 45.4 68.2#
 99 23.8 49.4 74.0#

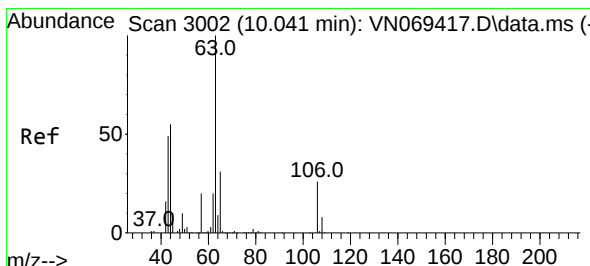
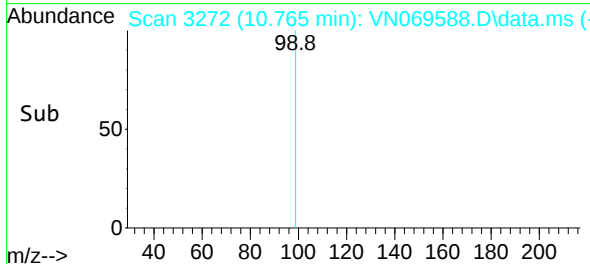
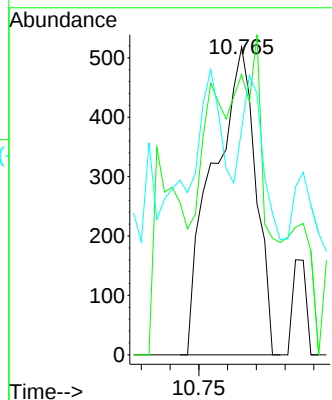
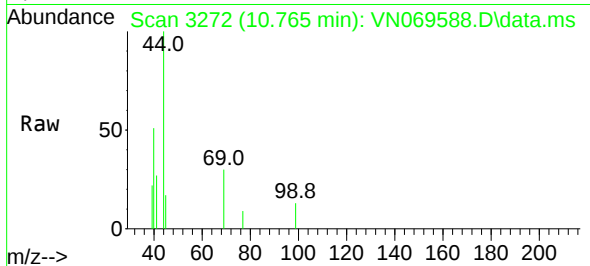




#56
Ethyl methacrylate
Concen: 2.071 ug/l
RT: 10.765 min Scan# 31
Delta R.T. 0.003 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

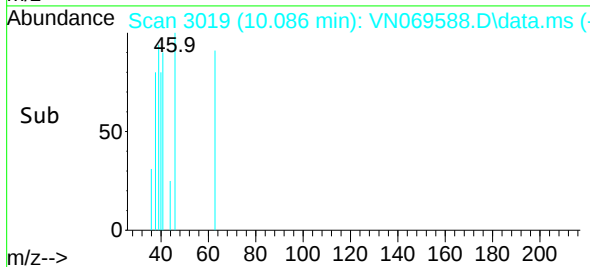
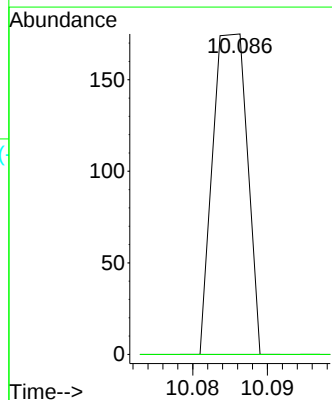
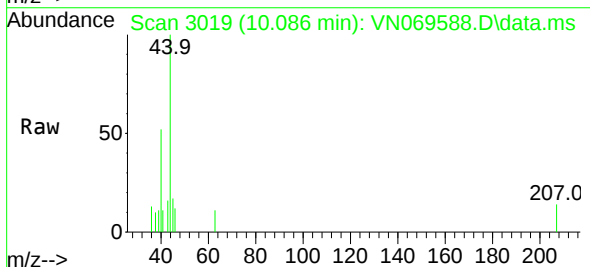
Instrument :
MSVOA_N
ClientSampleId :

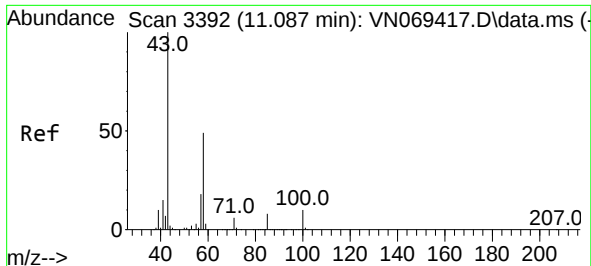
Tgt Ion: 69 Resp: 533
Ion Ratio Lower Upper
69 100
41 0.0 51.4 77.0#
39 46.9 34.6 52.0



#58
2-Chloroethyl Vinyl ether
Concen: 22.777 ug/l
RT: 10.086 min Scan# 3019
Delta R.T. 0.045 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

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

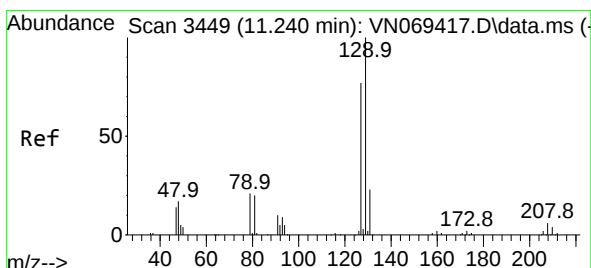
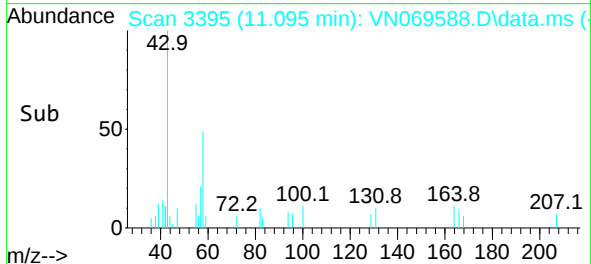
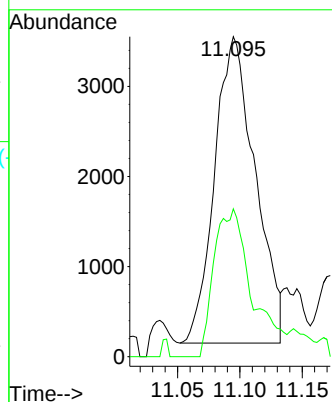
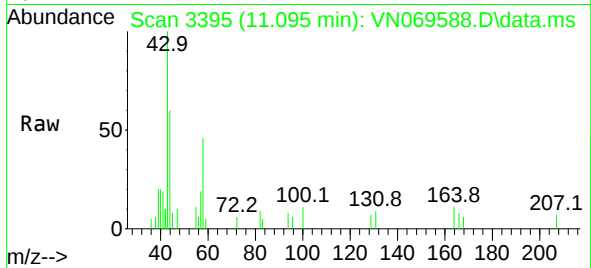




#59
2-Hexanone
Concen: 8.265 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.008 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

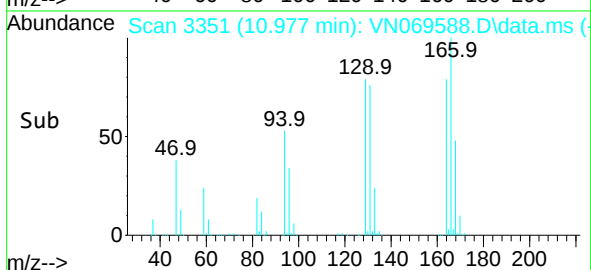
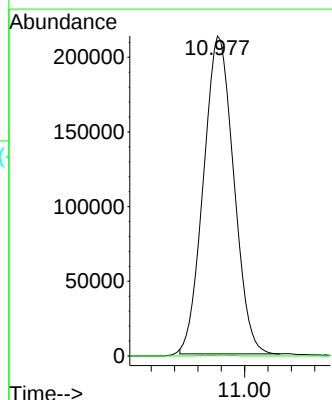
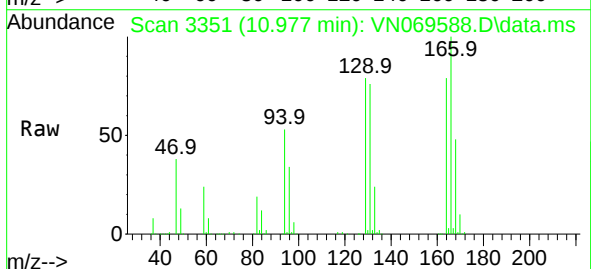
Instrument :
MSVOA_N
ClientSampleId :

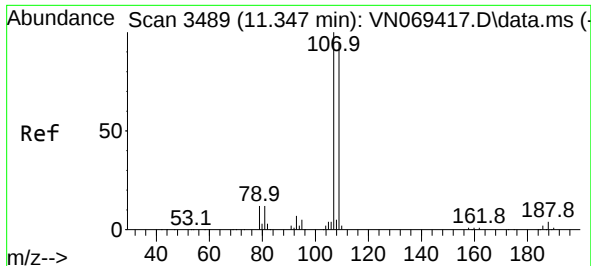
Tgt Ion: 43 Resp: 7730
Ion Ratio Lower Upper
43 100
58 44.9 26.9 80.7



#60
Dibromochloromethane
Concen: 24.251 ug/l
RT: 10.977 min Scan# 3351
Delta R.T. -0.263 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

Tgt Ion: 129 Resp: 382186
Ion Ratio Lower Upper
129 100
127 0.1 38.6 116.0#

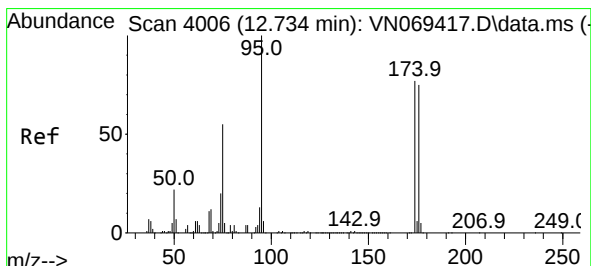
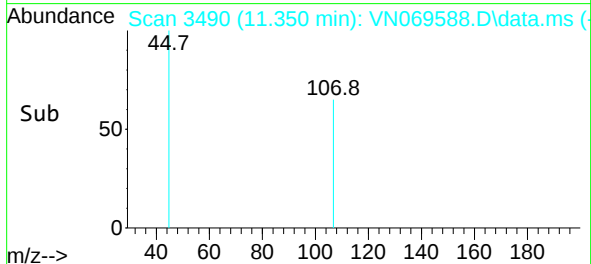
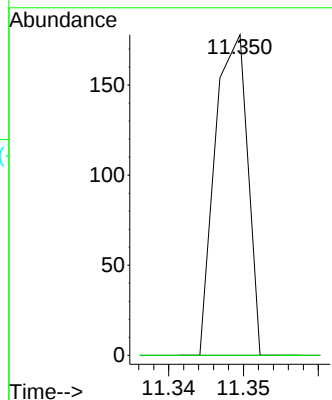
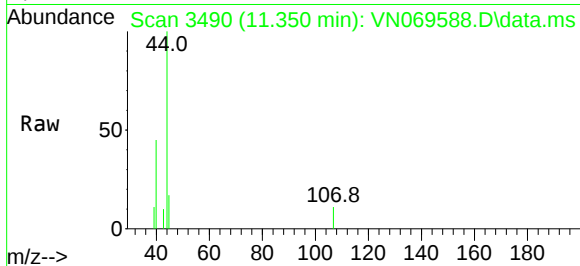




#61
1,2-Dibromoethane
Concen: 1.074 ug/l
RT: 11.350 min Scan# 3489
Delta R.T. 0.003 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

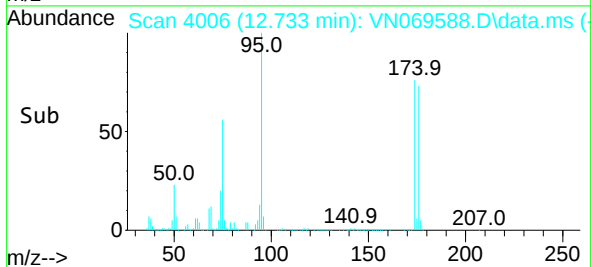
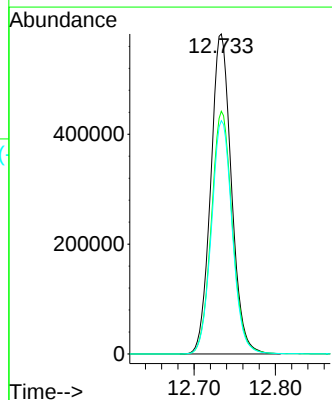
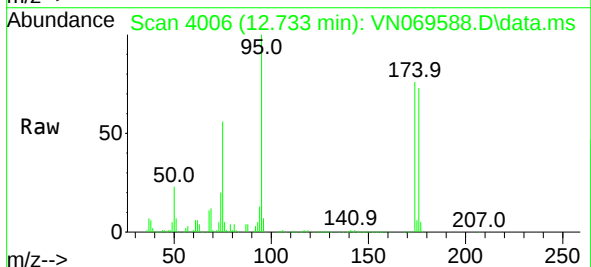
Instrument :
MSVOA_N
ClientSampleId :

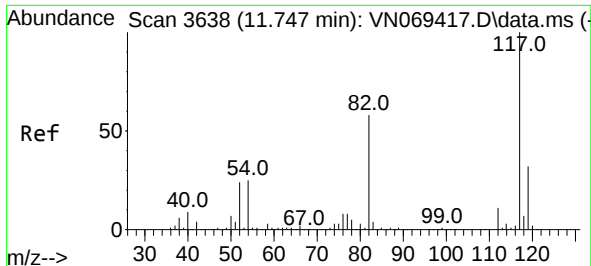
Tgt Ion:107 Resp: 53
Ion Ratio Lower Upper
107 100
109 0.0 75.7 113.5#



#62
4-Bromofluorobenzene
Concen: 51.148 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.001 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

Tgt Ion: 95 Resp: 1031330
Ion Ratio Lower Upper
95 100
174 77.0 0.0 187.2
176 73.5 0.0 181.4

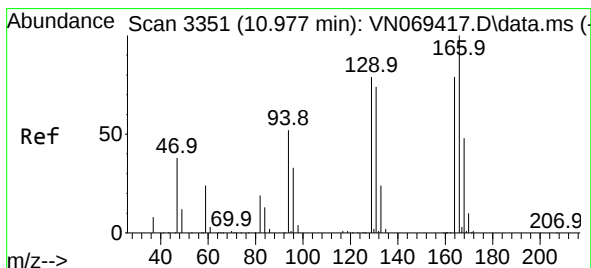
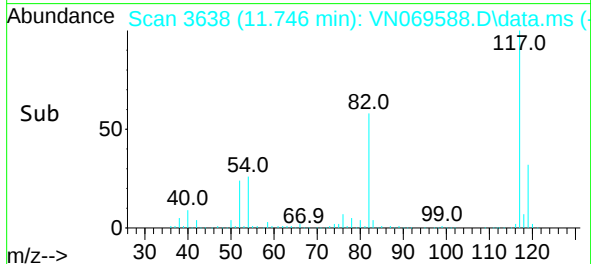
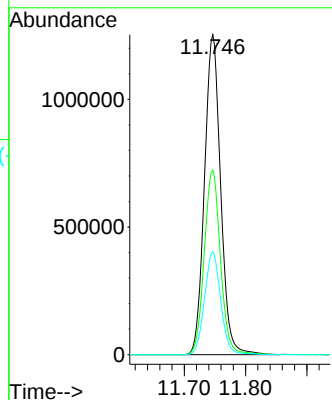
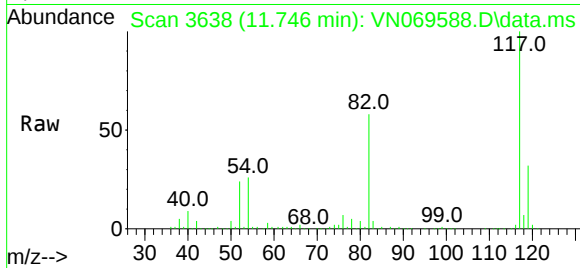




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. -0.001 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

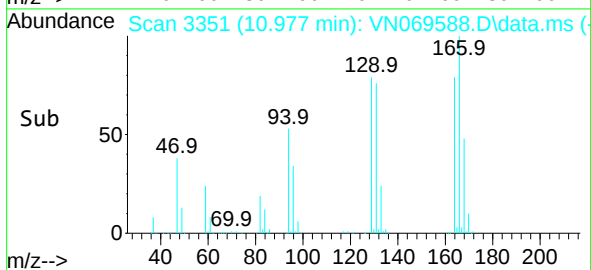
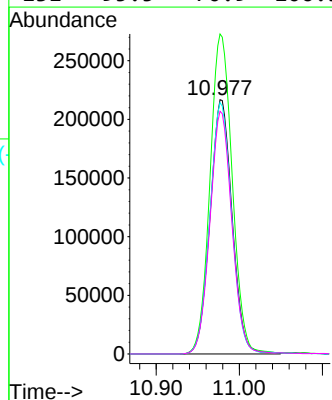
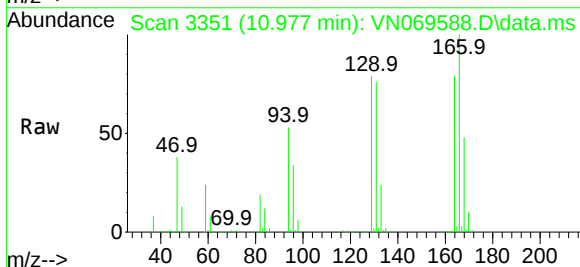
Instrument :
MSVOA_N
ClientSampleId :

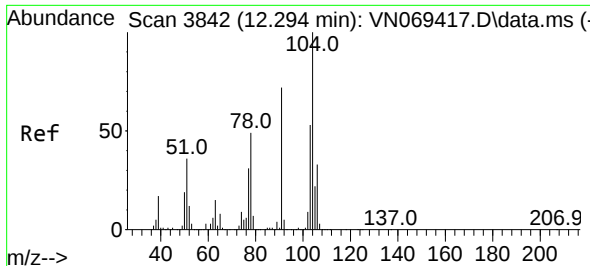
Tgt Ion:117 Resp: 2299317
Ion Ratio Lower Upper
117 100
82 57.7 42.4 63.6
119 32.2 25.4 38.2



#64
Tetrachloroethene
Concen: 28.797 ug/l
RT: 10.977 min Scan# 3351
Delta R.T. -0.000 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

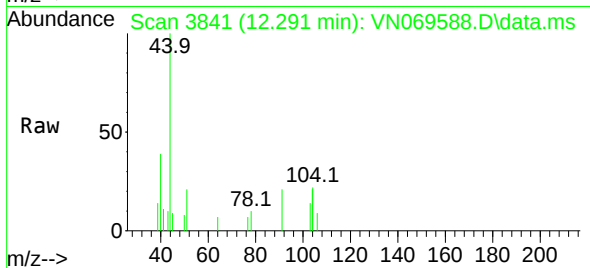
Tgt Ion:164 Resp: 399799
Ion Ratio Lower Upper
164 100
166 125.9 101.9 152.9
129 98.9 72.0 108.0
131 95.5 70.9 106.3



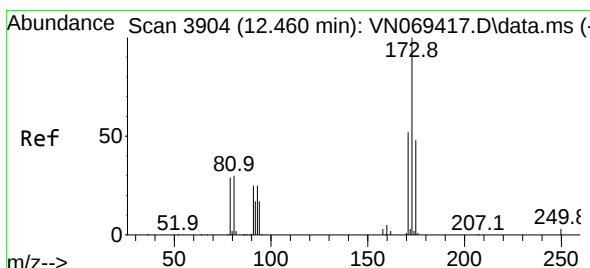
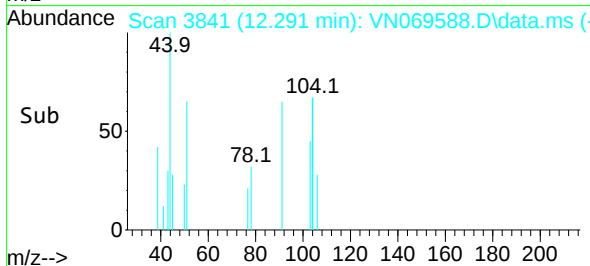
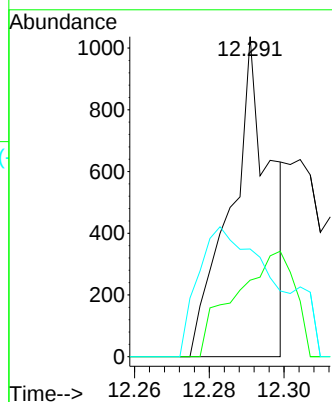


#70
Styrene
Concen: 1.535 ug/l
RT: 12.291 min Scan# 3842
Delta R.T. -0.003 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

Instrument :
MSVOA_N
ClientSampleId :

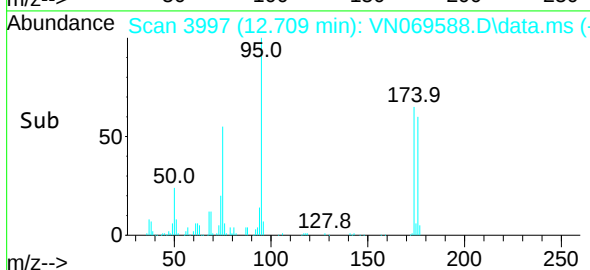
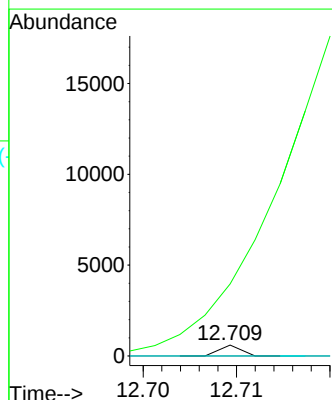
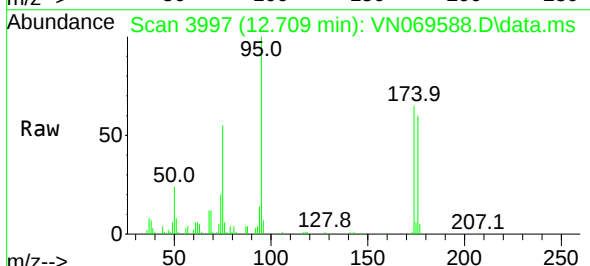


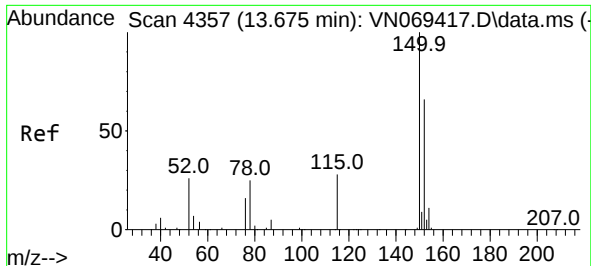
Tgt Ion:104 Resp: 762
Ion Ratio Lower Upper
104 100
78 49.5 38.7 58.1
103 79.8 45.0 67.6#



#71
Bromoform
Concen: 3.435 ug/l
RT: 12.709 min Scan# 3997
Delta R.T. 0.249 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

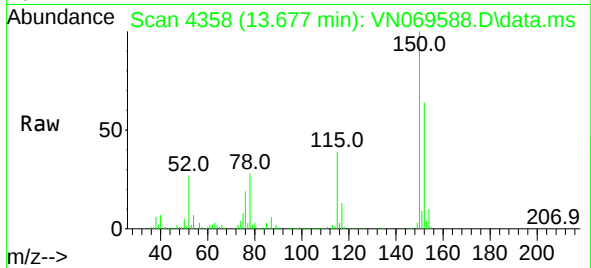
Tgt Ion:173 Resp: 97
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0



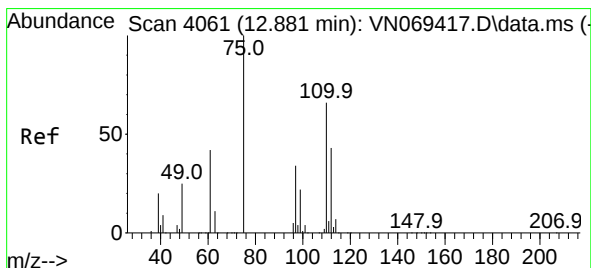
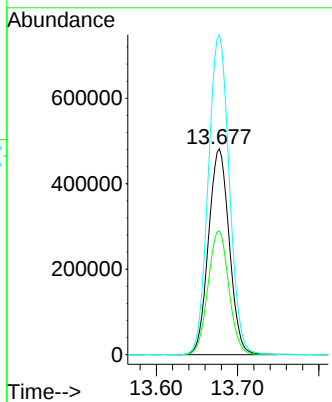
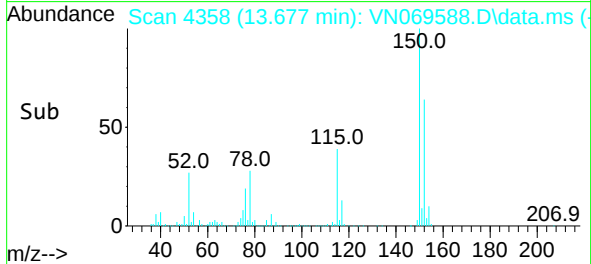


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.677 min Scan# 41
 Delta R.T. 0.002 min
 Lab File: VN069588.D
 Acq: 19 Nov 2021 16:31

Instrument :
 MSVOA_N
 ClientSampleId :

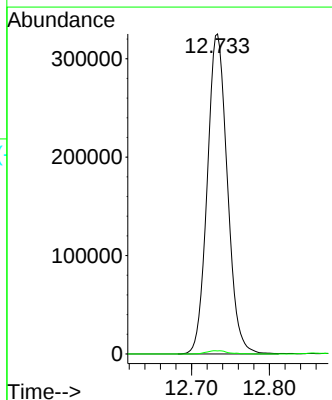
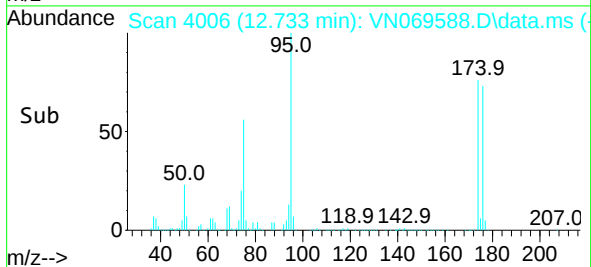
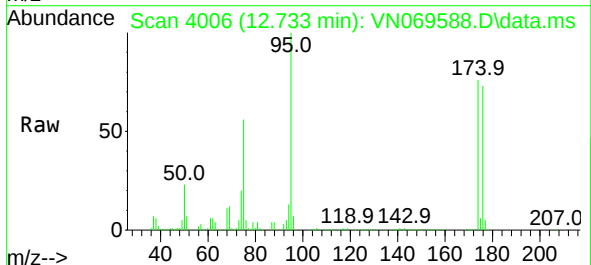


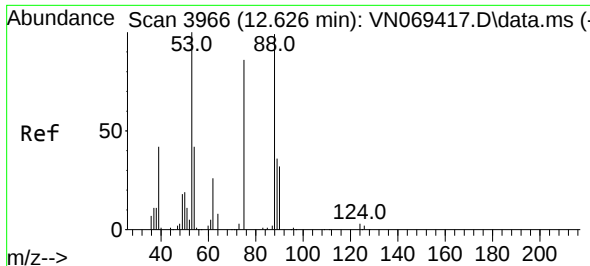
Tgt Ion:152 Resp: 855548
 Ion Ratio Lower Upper
 152 100
 115 60.2 27.5 82.5
 150 157.0 0.0 344.4



#76
 1,2,3-Trichloropropane
 Concen: 29.501 ug/l
 RT: 12.733 min Scan# 4006
 Delta R.T. -0.148 min
 Lab File: VN069588.D
 Acq: 19 Nov 2021 16:31

Tgt Ion: 75 Resp: 582466
 Ion Ratio Lower Upper
 75 100
 77 1.1 82.6 247.8#

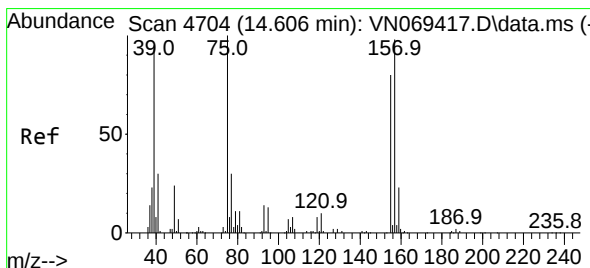
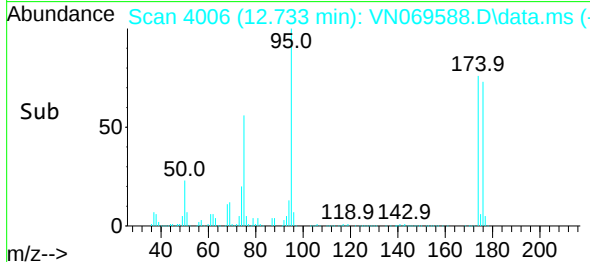
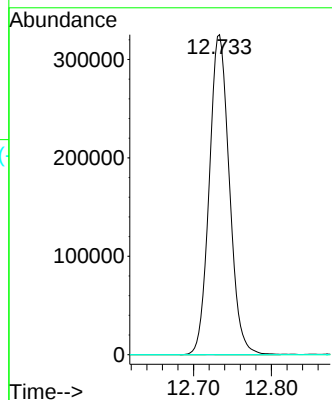
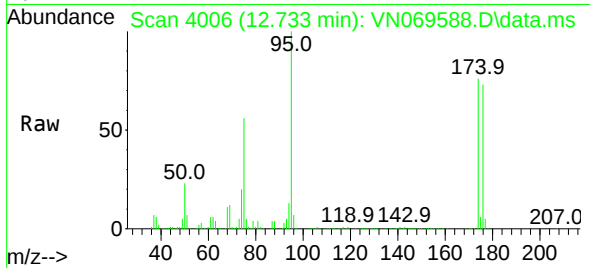




#81
trans-1,4-Dichloro-2-butene
Concen: 83.437 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

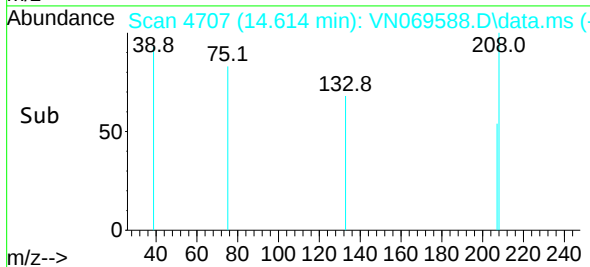
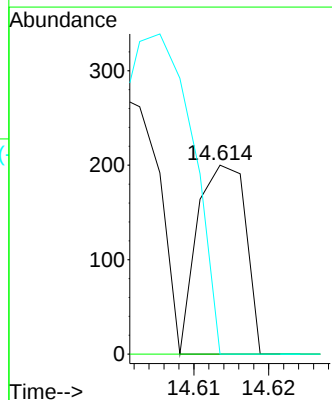
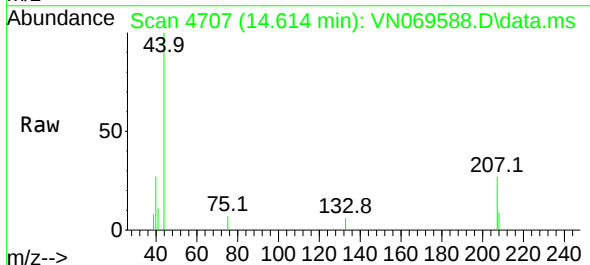
Instrument :
MSVOA_N
ClientSampleId :

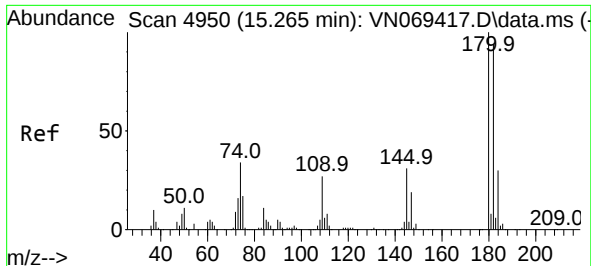
Tgt Ion: 75 Resp: 582466
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.817 ug/l
RT: 14.614 min Scan# 4707
Delta R.T. 0.008 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

Tgt Ion: 75 Resp: 89
Ion Ratio Lower Upper
75 100
155 0.0 46.9 140.7#
157 252.8 60.6 181.7#

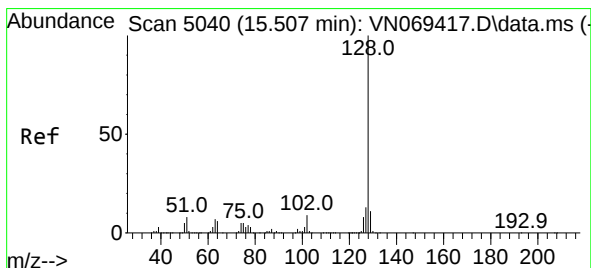
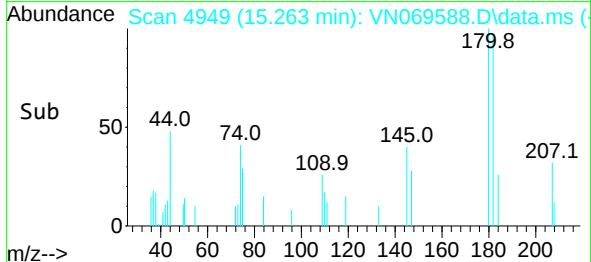
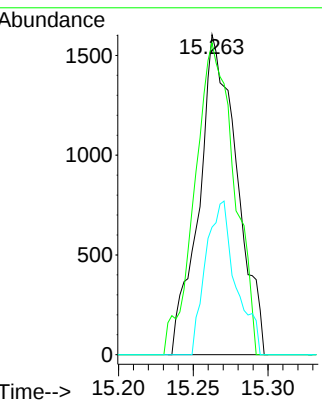
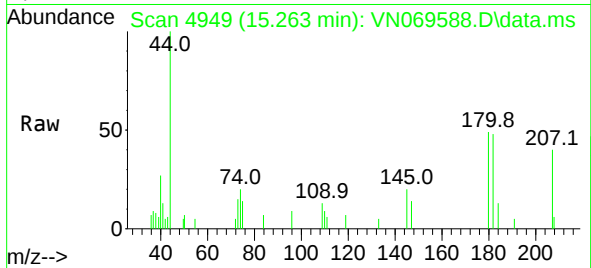




#93
1,2,4-Trichlorobenzene
Concen: 3.310 ug/l
RT: 15.263 min Scan# 4950
Delta R.T. -0.002 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

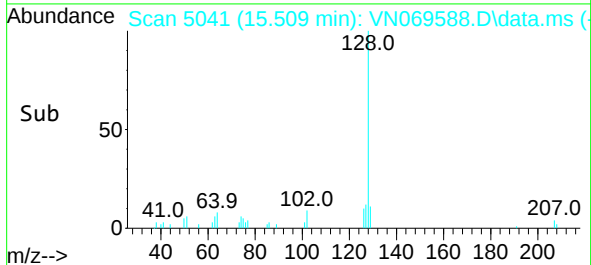
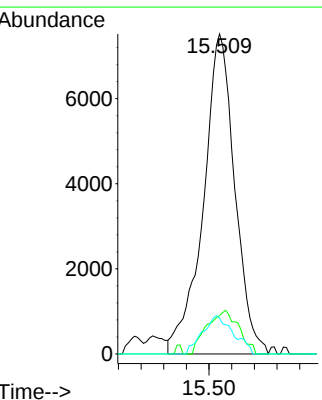
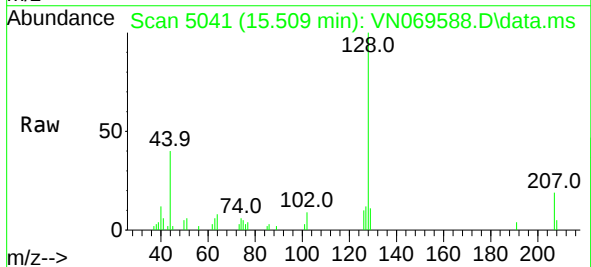
Instrument :
MSVOA_N
ClientSampleId :

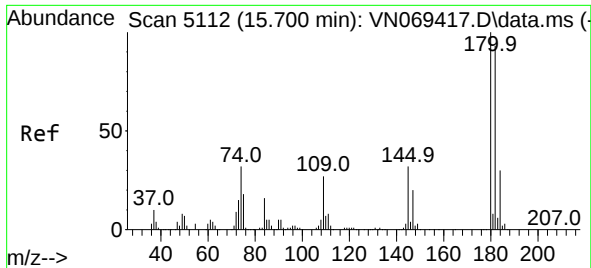
Tgt Ion:180 Resp: 2828
Ion Ratio Lower Upper
180 100
182 101.6 48.3 144.9
145 38.0 14.5 43.5



#95
Naphthalene
Concen: 4.799 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.002 min
Lab File: VN069588.D
Acq: 19 Nov 2021 16:31

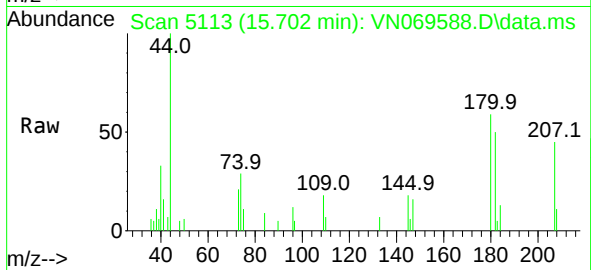
Tgt Ion:128 Resp: 14500
Ion Ratio Lower Upper
128 100
127 13.8 10.5 15.7
129 11.6 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 3.430 ug/l
 RT: 15.702 min Scan# 51
 Delta R.T. 0.002 min
 Lab File: VN069588.D
 Acq: 19 Nov 2021 16:31

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
180	100		
182	102.0	47.4	142.2
145	30.6	15.0	45.1

