

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111121\
 Data File : VN069456.D
 Acq On : 11 Nov 2021 16:10
 Operator : JC/MD
 Sample : M4641-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 12 05:16:34 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)

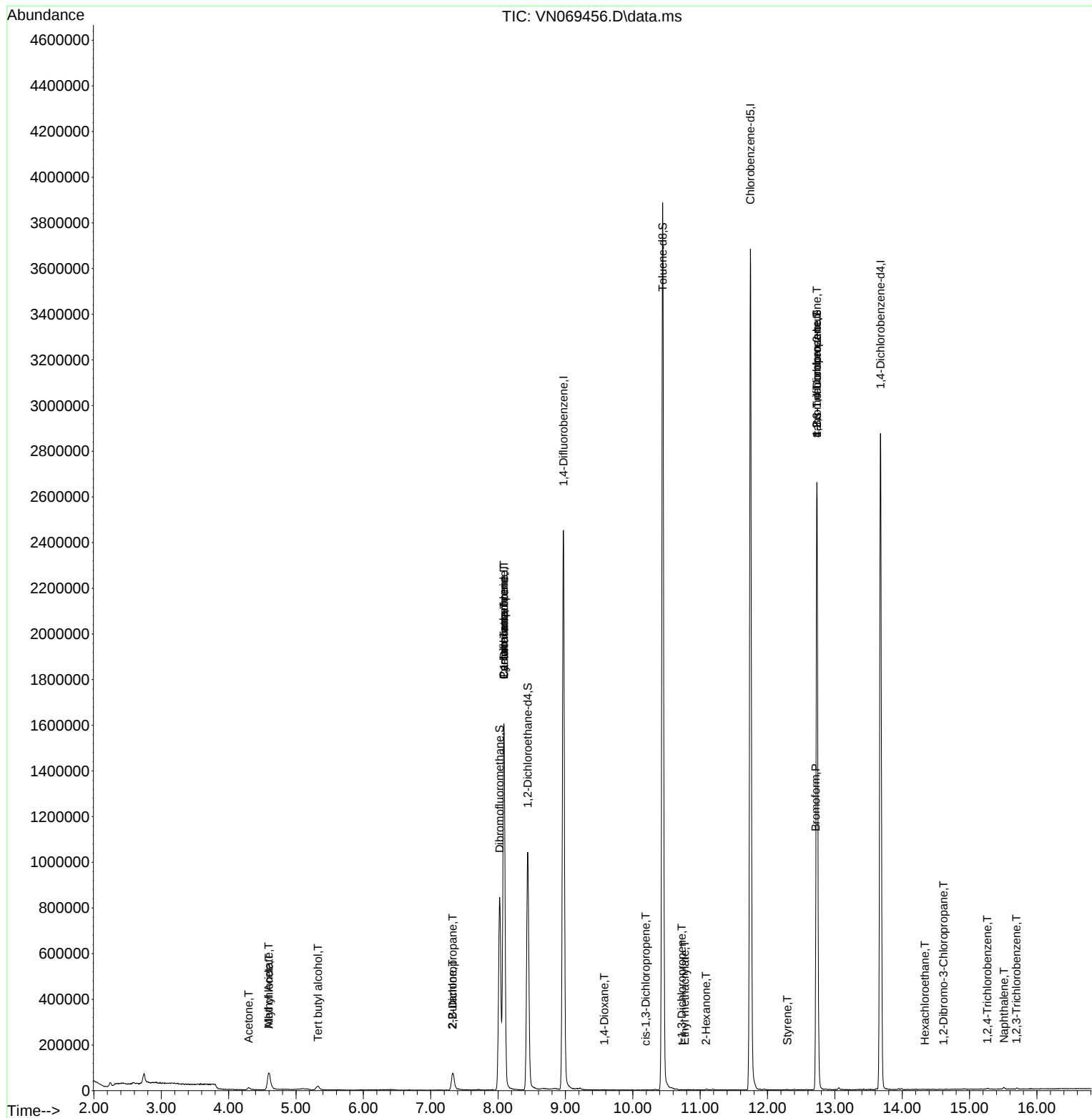
Internal Standards						
1) Pentafluorobenzene	8.086	168	1167045	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.971	114	2082174	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	2030941	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	752270	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	897015	53.010	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 106.020%			
35) Dibromofluoromethane	8.024	113	608121	48.696	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 97.400%			
50) Toluene-d8	10.443	98	2659910	54.157	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 108.320%			
62) 4-Bromofluorobenzene	12.733	95	906947	50.266	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 100.540%			
Target Compounds						
						Qvalue
11) Tert butyl alcohol	5.329	59	17398	5.706	ug/l	# 71
13) Acrolein	4.028	56	429	Below Cal		# 35
14) Allyl chloride	4.596	41	13043	0.624	ug/l	# 61
16) Acetone	4.296	43	13384	1.466	ug/l	# 86
18) Methyl Acetate	4.594	43	34095	1.149	ug/l	# 51
25) 2-Butanone	7.321	43	3334	0.270	ug/l	# 48
26) 2,2-Dichloropropane	7.327	77	4986	0.278	ug/l	# 52
31) Cyclohexane	8.086	56	31745	1.373	ug/l	# 32
36) 1,1-Dichloropropene	8.086	75	105390	6.015	ug/l	# 49
38) Carbon Tetrachloride	8.086	117	125171	7.400	ug/l	# 16
49) 1,4-Dioxane	9.577	88	543	40.530	ug/l	# 62
53) t-1,3-Dichloropropene	10.727	75	300	2.650	ug/l	# 30
54) cis-1,3-Dichloropropene	10.191	75	119	1.738	ug/l	# 32
56) Ethyl methacrylate	10.773	69	234	2.062	ug/l	# 1
59) 2-Hexanone	11.087	43	1455	8.010	ug/l	# 44
70) Styrene	12.296	104	446	1.530	ug/l	# 89
71) Bromoform	12.717	173	654	3.481	ug/l	# 1
76) 1,2,3-Trichloropropane	12.733	75	522951	30.123	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.733	75	522951	85.074	ug/l	# 5
90) Hexachloroethane	14.337	117	64	2.169	ug/l	# 6
92) 1,2-Dibromo-3-Chloropr...	14.611	75	27	1.804	ug/l	# 47
93) 1,2,4-Trichlorobenzene	15.265	180	1371	3.222	ug/l	# 70
95) Naphthalene	15.512	128	6647	4.632	ug/l	# 70
96) 1,2,3-Trichlorobenzene	15.697	180	745	3.231	ug/l	# 42

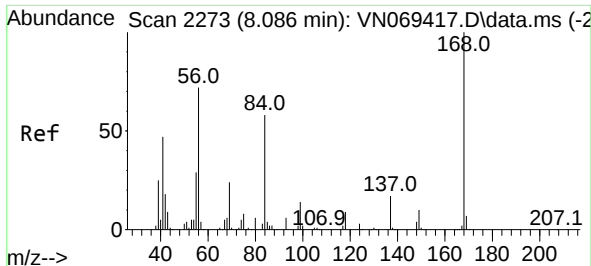
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 09 18:18:22 2021
Response via : Initial Calibration

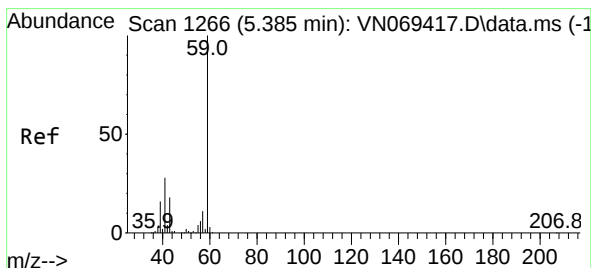
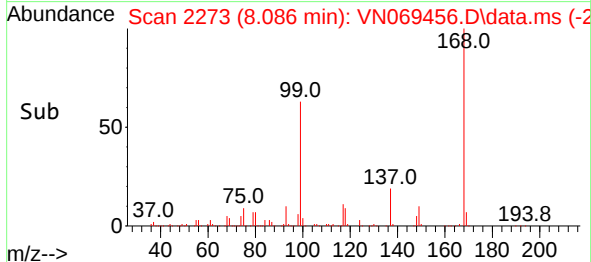
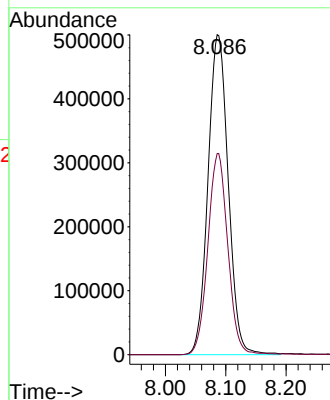
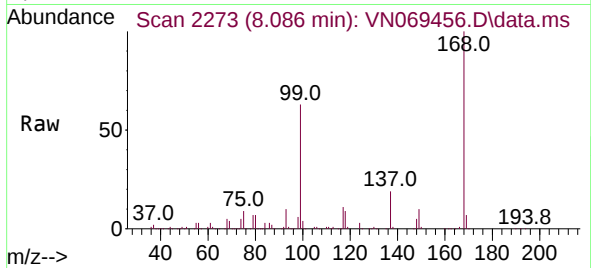




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

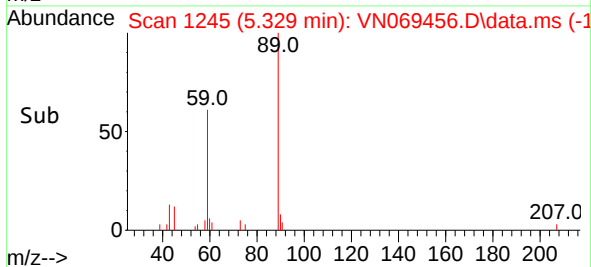
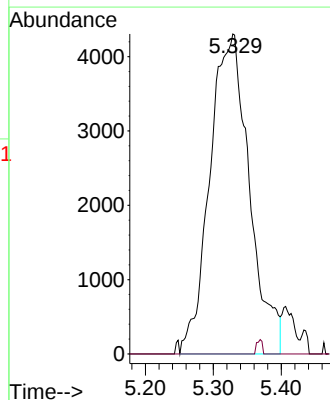
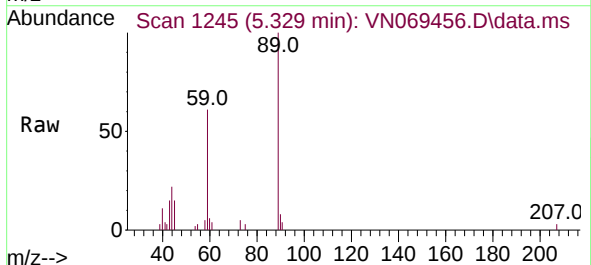
Instrument :
MSVOA_N
ClientSampleId :

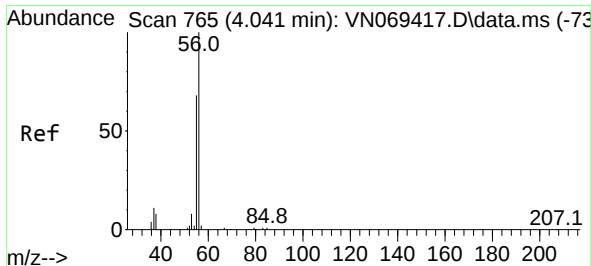
Tgt Ion:168 Resp: 1167045
Ion Ratio Lower Upper
168 100
99 62.8 41.3 61.9#



#11
Tert butyl alcohol
Concen: 5.706 ug/l
RT: 5.329 min Scan# 1245
Delta R.T. -0.056 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

Tgt Ion: 59 Resp: 17398
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

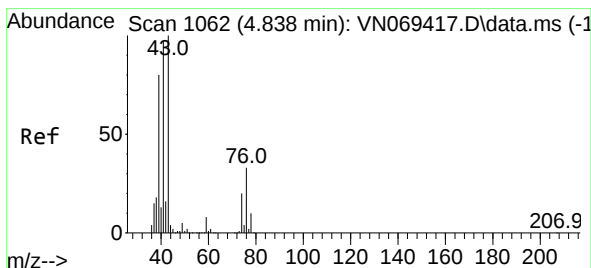
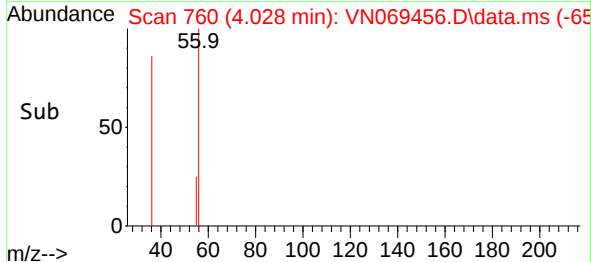
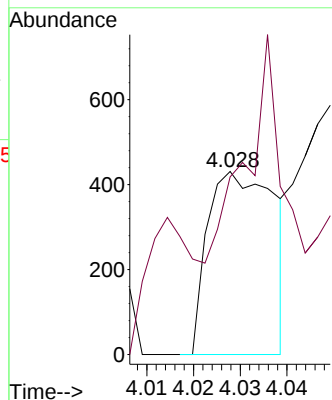
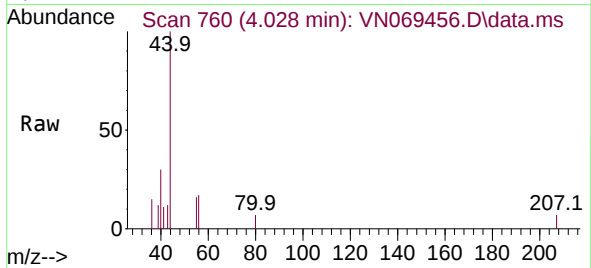




#13
Acrolein
Concen: Below Cal
RT: 4.028 min Scan# 70
Delta R.T. -0.013 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

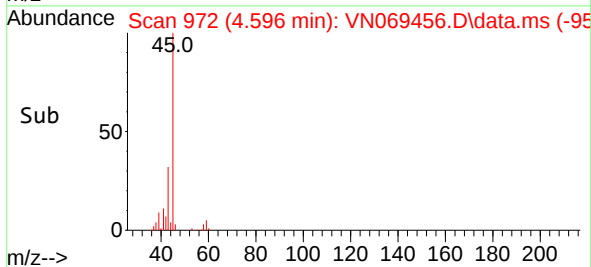
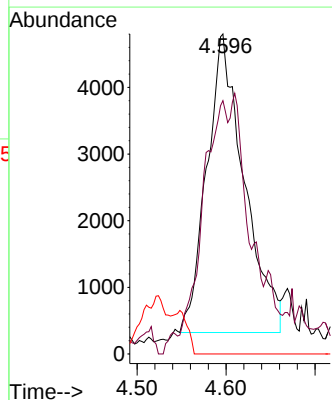
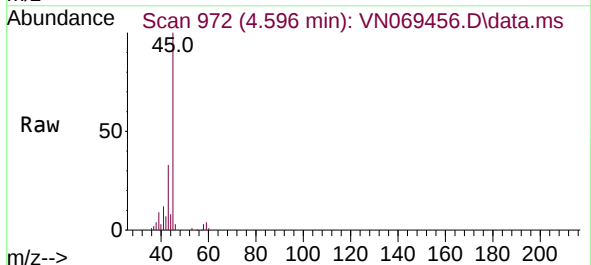
Instrument :
MSVOA_N
ClientSampleId :

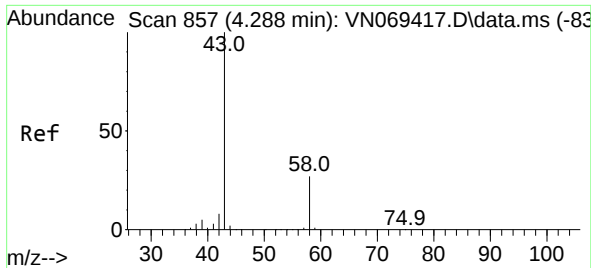
Tgt Ion: 56 Resp: 429
Ion Ratio Lower Upper
56 100
55 124.2 56.6 85.0#



#14
Allyl chloride
Concen: 0.624 ug/l
RT: 4.596 min Scan# 972
Delta R.T. -0.242 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

Tgt Ion: 41 Resp: 13043
Ion Ratio Lower Upper
41 100
39 50.0 61.2 91.8#
76 0.0 26.0 39.0#





#16

Acetone

Concen: 1.466 ug/l

RT: 4.296 min Scan# 8

Delta R.T. 0.008 min

Lab File: VN069456.D

Acq: 11 Nov 2021 16:10

Instrument :

MSVOA_N

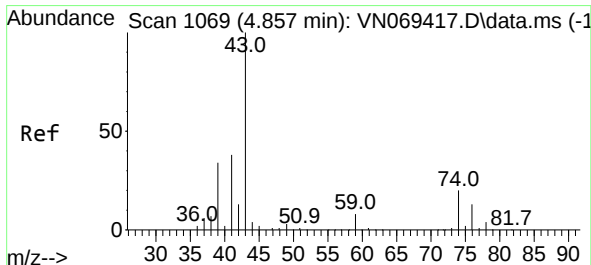
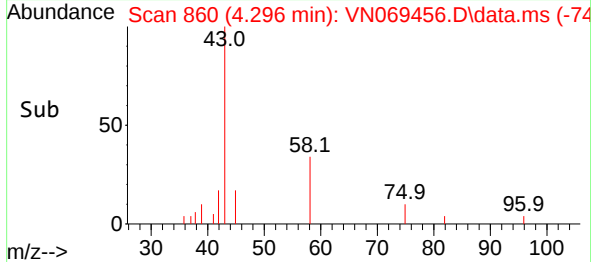
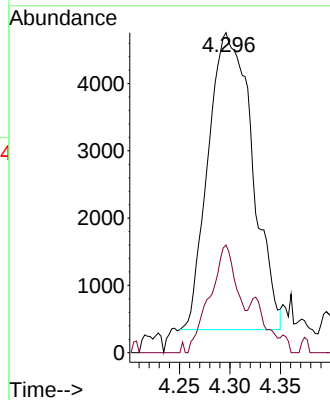
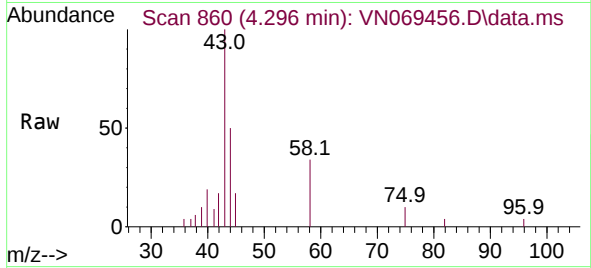
ClientSampleId :

Tgt Ion: 43 Resp: 13384

Ion Ratio Lower Upper

43 100

58 36.3 23.1 34.7#



#18

Methyl Acetate

Concen: 1.149 ug/l

RT: 4.594 min Scan# 971

Delta R.T. -0.263 min

Lab File: VN069456.D

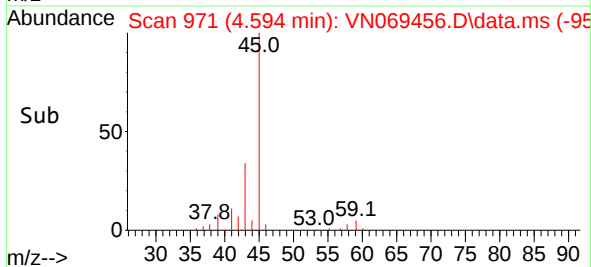
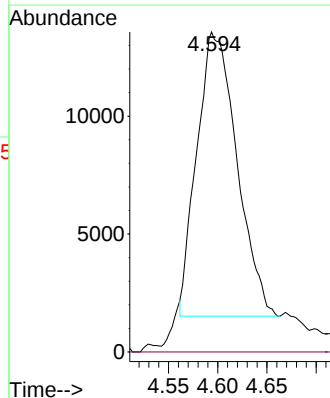
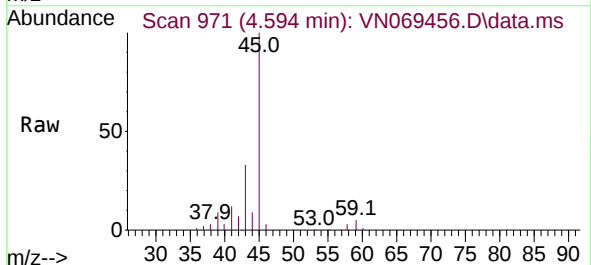
Acq: 11 Nov 2021 16:10

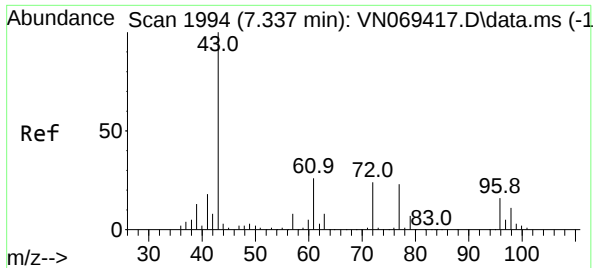
Tgt Ion: 43 Resp: 34095

Ion Ratio Lower Upper

43 100

74 0.0 19.4 29.2#





#25

2-Butanone

Concen: 0.270 ug/l

RT: 7.321 min Scan# 19

Delta R.T. -0.016 min

Lab File: VN069456.D

Acq: 11 Nov 2021 16:10

Instrument :

MSVOA_N

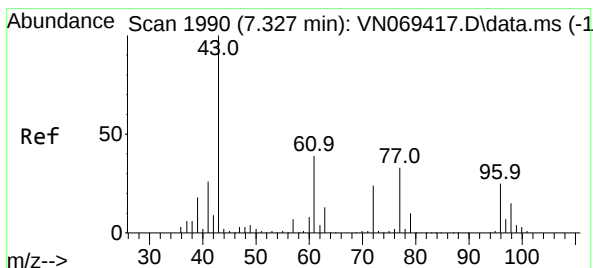
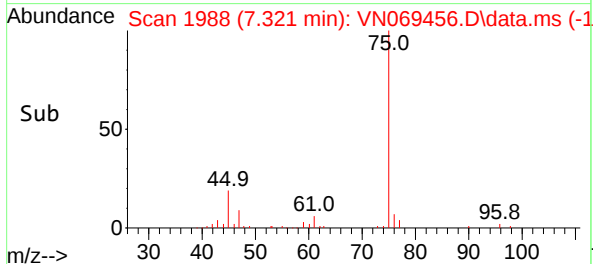
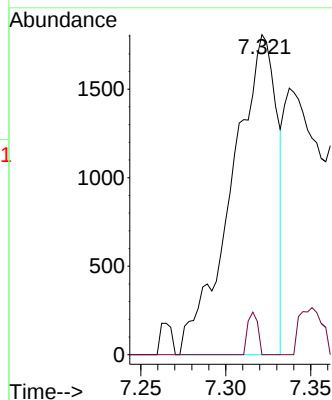
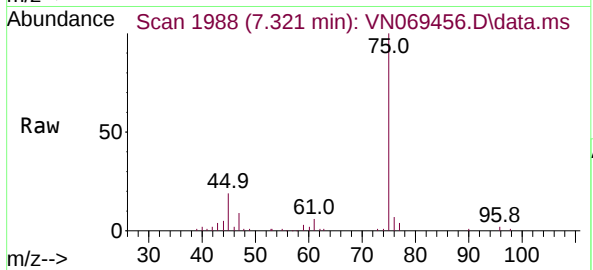
ClientSampleId :

Tgt Ion: 43 Resp: 3334

Ion Ratio Lower Upper

43 100

72 0.0 21.7 32.5#



#26

2,2-Dichloropropane

Concen: 0.278 ug/l

RT: 7.327 min Scan# 1990

Delta R.T. -0.000 min

Lab File: VN069456.D

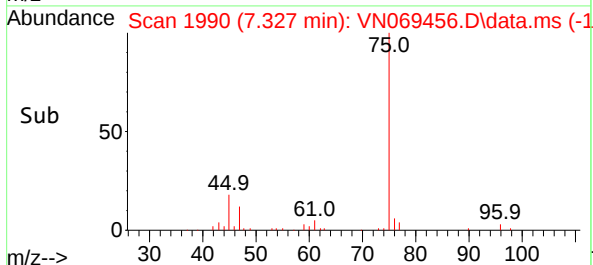
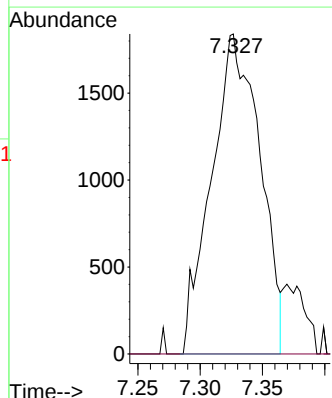
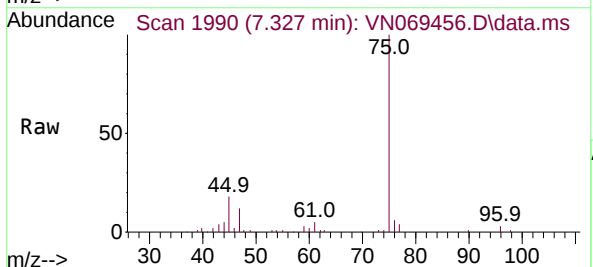
Acq: 11 Nov 2021 16:10

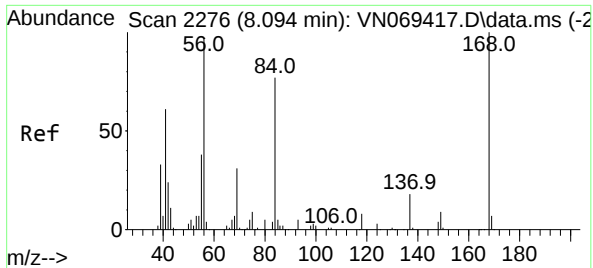
Tgt Ion: 77 Resp: 4986

Ion Ratio Lower Upper

77 100

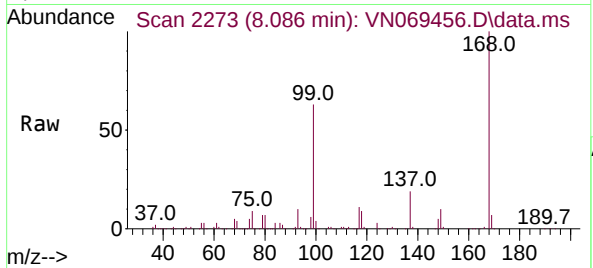
97 0.0 11.6 34.8#



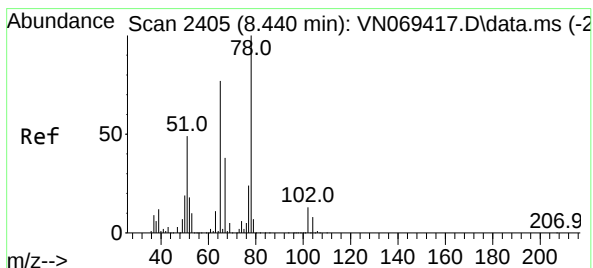
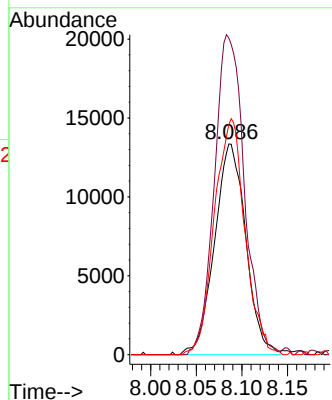
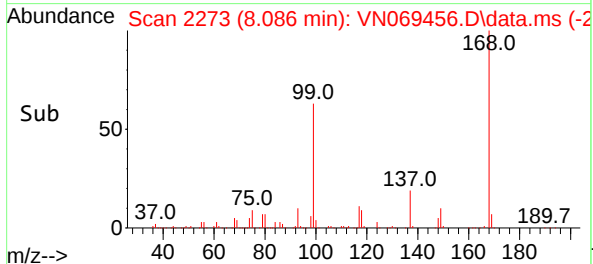


#31
Cyclohexane
Concen: 1.373 ug/l
RT: 8.086 min Scan# 21745
Delta R.T. -0.008 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

Instrument :
MSVOA_N
ClientSampleId :

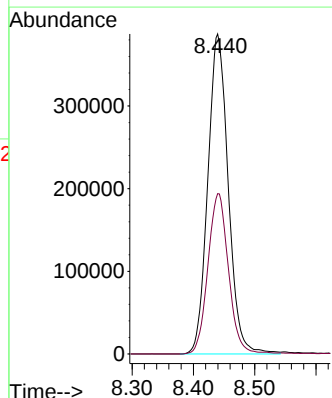
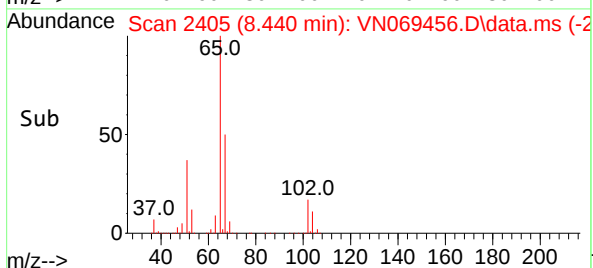
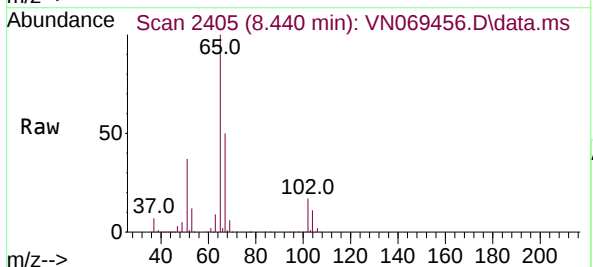


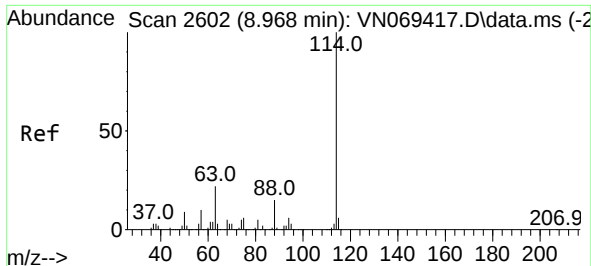
Tgt Ion: 56 Resp: 31745
Ion Ratio Lower Upper
56 100
69 150.3 27.1 40.7#
84 109.3 73.4 110.0



#33
1,2-Dichloroethane-d4
Concen: 53.010 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

Tgt Ion: 65 Resp: 897015
Ion Ratio Lower Upper
65 100
67 50.1 0.0 103.0

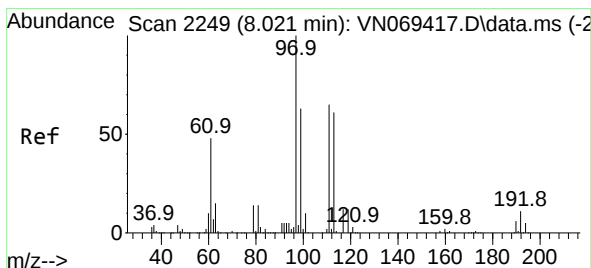
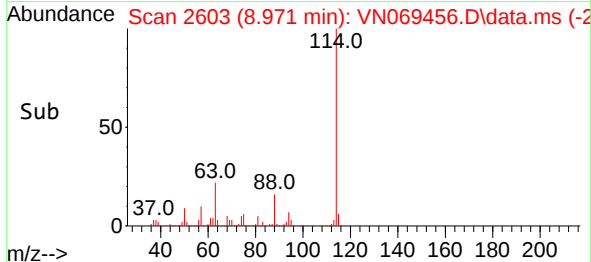
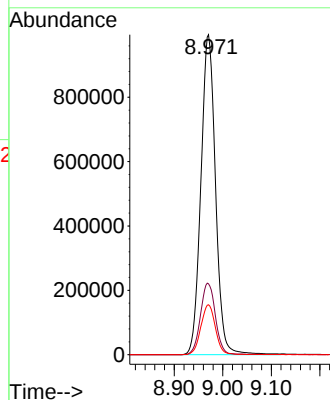
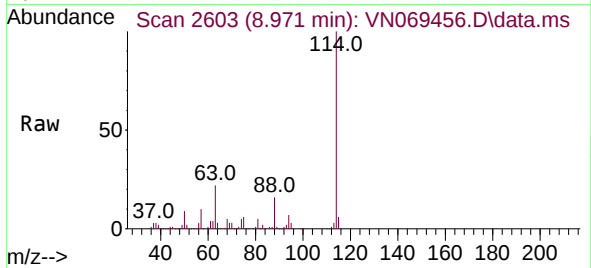




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2082
Delta R.T. 0.003 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

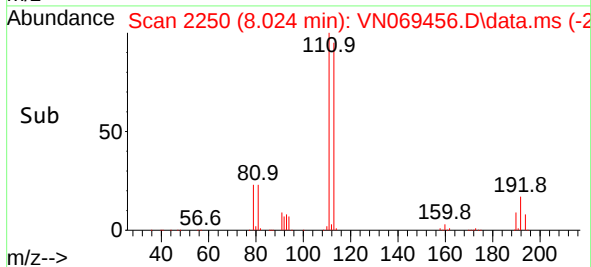
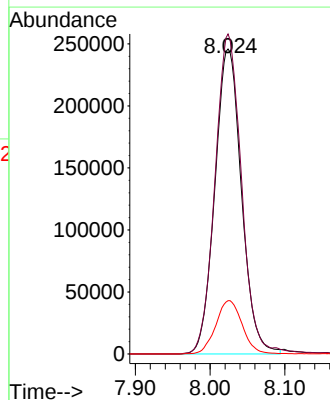
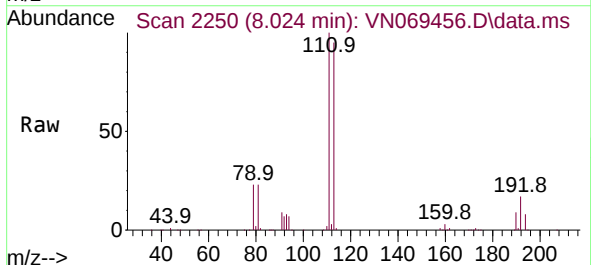
Instrument :
MSVOA_N
ClientSampleId :

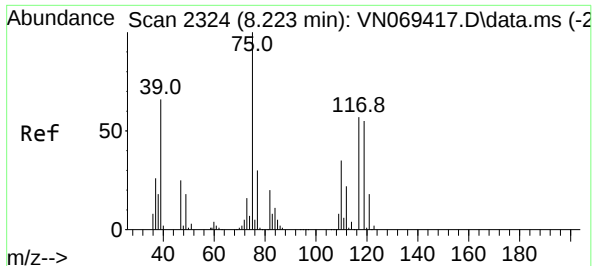
Tgt Ion:114 Resp: 2082174
Ion Ratio Lower Upper
114 100
63 22.2 0.0 37.8
88 15.6 0.0 27.4



#35
Dibromofluoromethane
Concen: 48.696 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

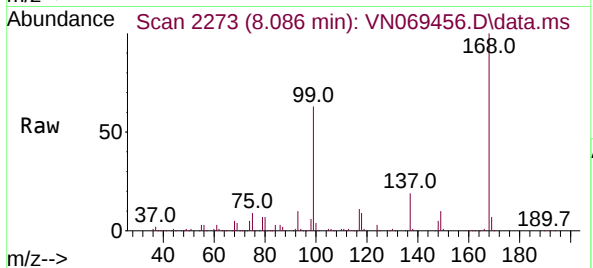
Tgt Ion:113 Resp: 608121
Ion Ratio Lower Upper
113 100
111 103.5 82.2 123.2
192 17.4 16.9 25.3



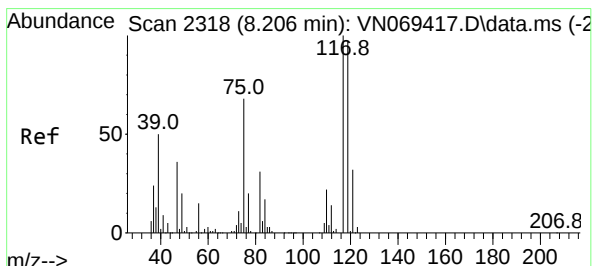
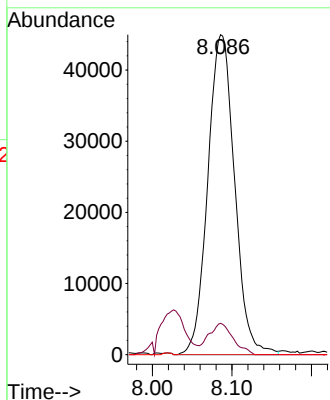
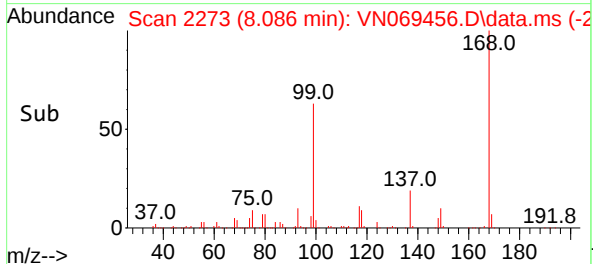


#36
 1,1-Dichloropropene
 Concen: 6.015 ug/l
 RT: 8.086 min Scan# 2273
 Delta R.T. -0.137 min
 Lab File: VN069456.D
 Acq: 11 Nov 2021 16:10

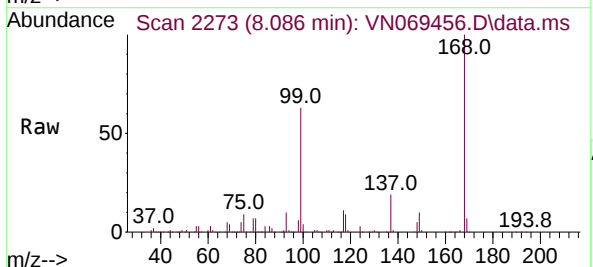
Instrument :
 MSVOA_N
 ClientSampleId :



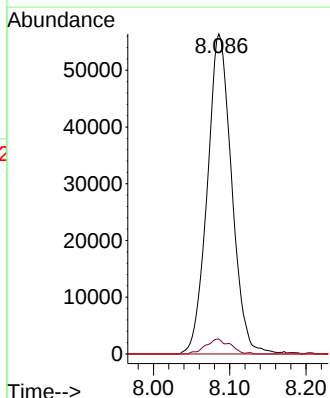
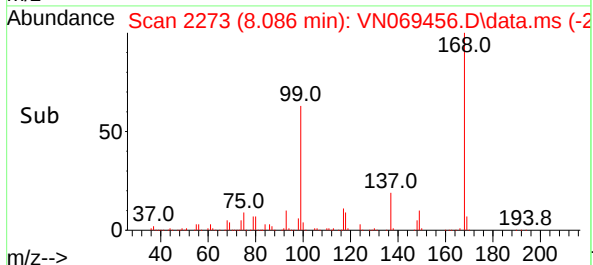
Tgt Ion: 75 Resp: 105390
 Ion Ratio Lower Upper
 75 100
 110 9.0 18.4 55.2#
 77 0.0 24.4 36.6#

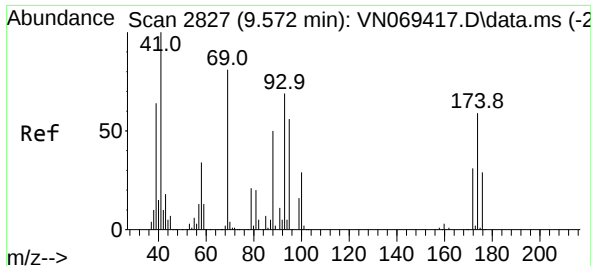


#38
 Carbon Tetrachloride
 Concen: 7.400 ug/l
 RT: 8.086 min Scan# 2273
 Delta R.T. -0.120 min
 Lab File: VN069456.D
 Acq: 11 Nov 2021 16:10



Tgt Ion: 117 Resp: 125171
 Ion Ratio Lower Upper
 117 100
 119 4.7 76.1 114.1#
 121 0.0 24.2 36.2#





#49

1,4-Dioxane

Concen: 40.530 ug/l

RT: 9.577 min Scan# 21

Delta R.T. 0.005 min

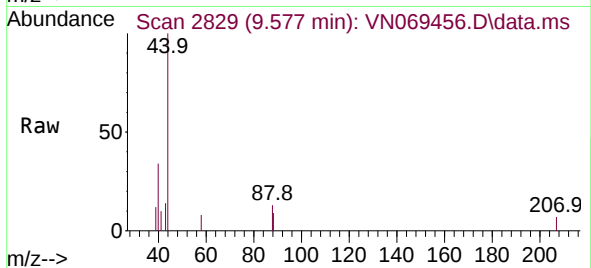
Lab File: VN069456.D

Acq: 11 Nov 2021 16:10

Instrument :

MSVOA_N

ClientSampleId :



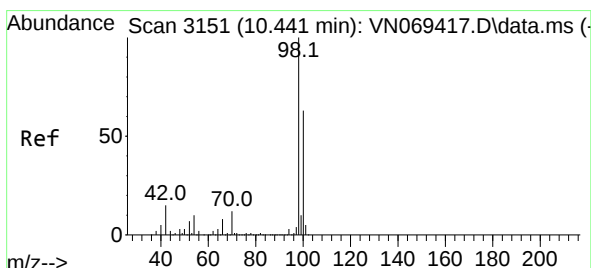
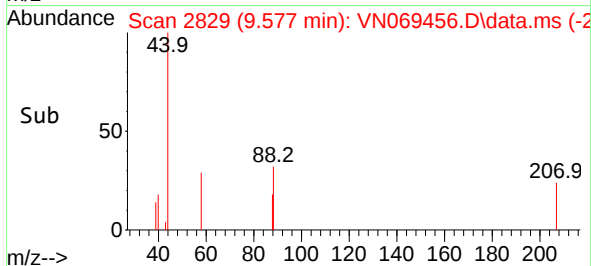
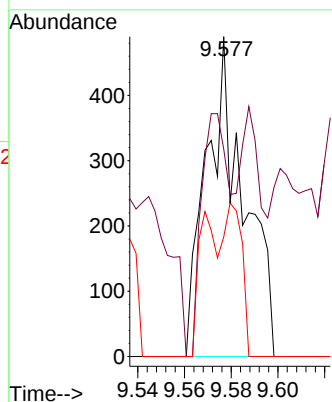
Tgt Ion: 88 Resp: 543

Ion Ratio Lower Upper

88 100

43 35.2 23.4 35.2#

58 24.1 50.6 75.8#



#50

Toluene-d8

Concen: 54.157 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.002 min

Lab File: VN069456.D

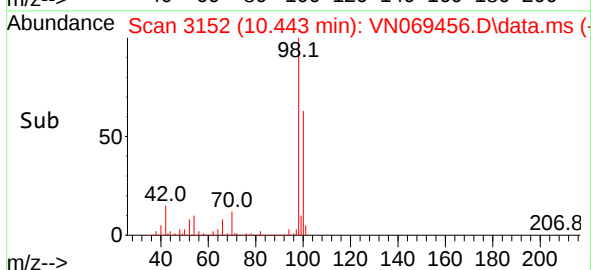
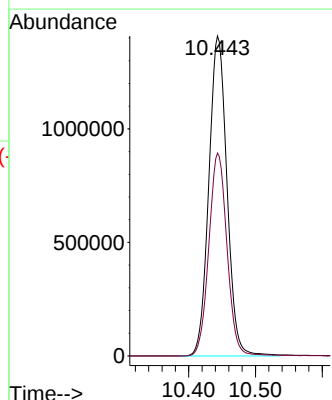
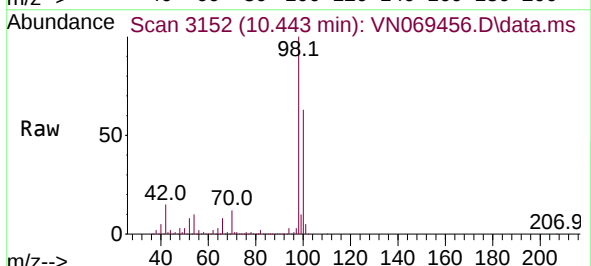
Acq: 11 Nov 2021 16:10

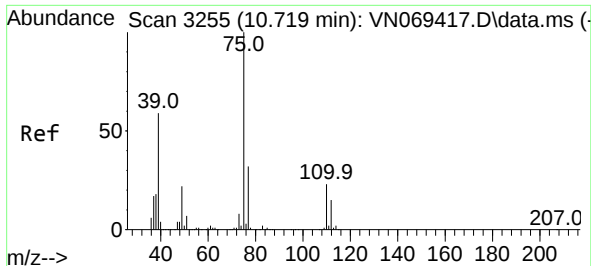
Tgt Ion: 98 Resp: 2659910

Ion Ratio Lower Upper

98 100

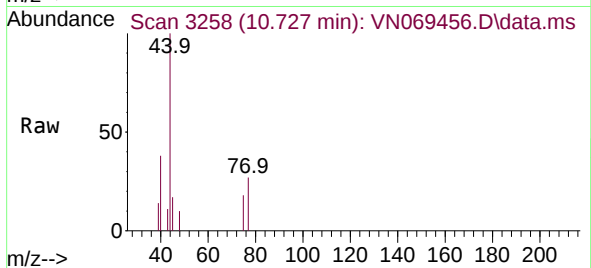
100 63.5 50.4 75.6



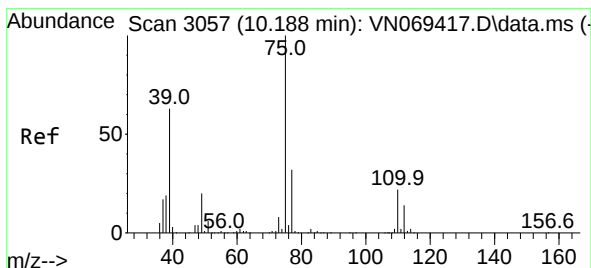
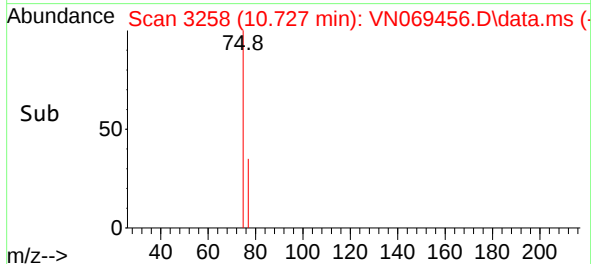
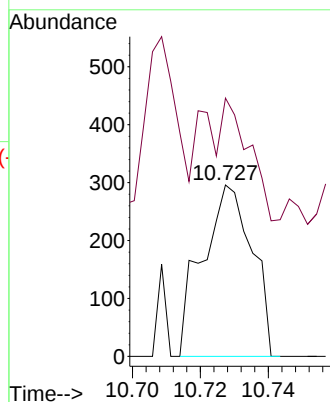


#53
t-1,3-Dichloropropene
Concen: 2.650 ug/l
RT: 10.727 min Scan# 31
Delta R.T. 0.008 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

Instrument :
MSVOA_N
ClientSampleId :

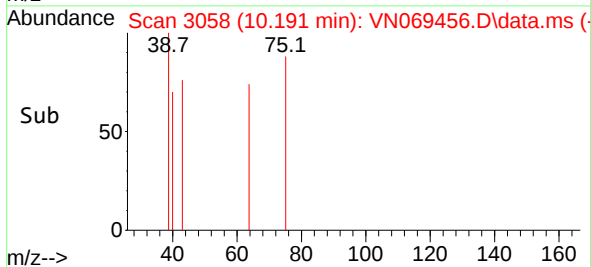
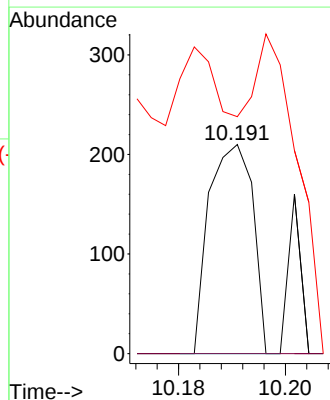
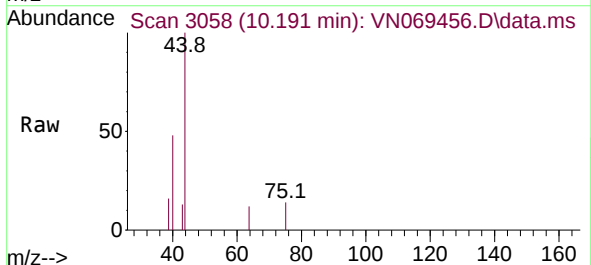


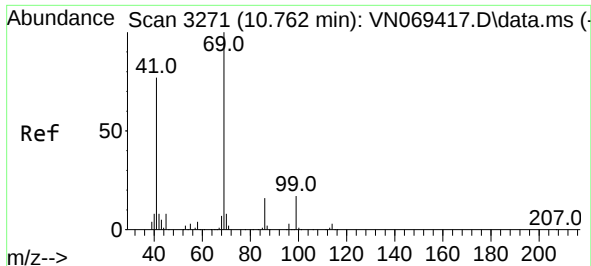
Tgt Ion: 75 Resp: 300
Ion Ratio Lower Upper
75 100
77 70.9 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 1.738 ug/l
RT: 10.191 min Scan# 3058
Delta R.T. 0.003 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

Tgt Ion: 75 Resp: 119
Ion Ratio Lower Upper
75 100
77 0.0 26.4 39.6#
39 0.0 42.5 63.7#

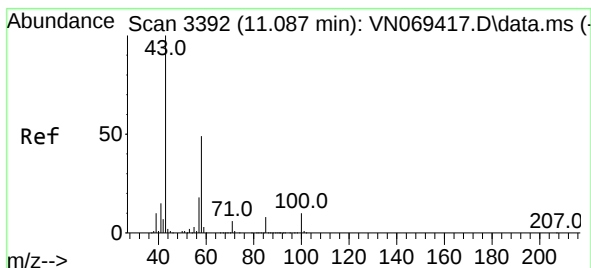
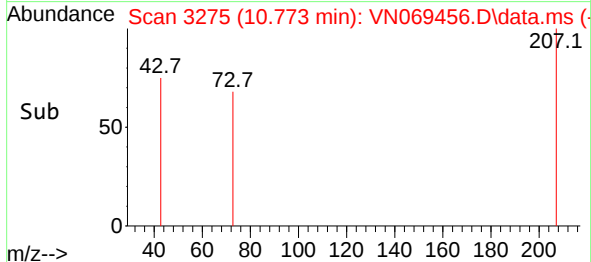
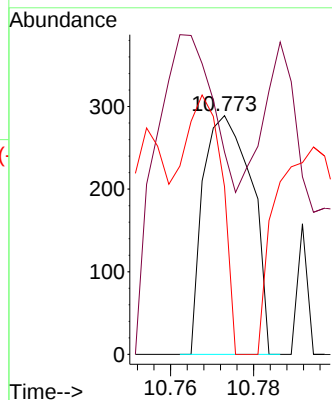
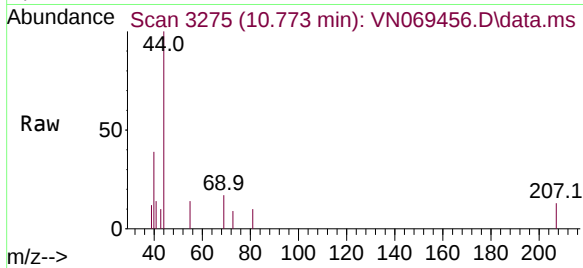




#56
Ethyl methacrylate
Concen: 2.062 ug/l
RT: 10.773 min Scan# 31
Delta R.T. 0.011 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

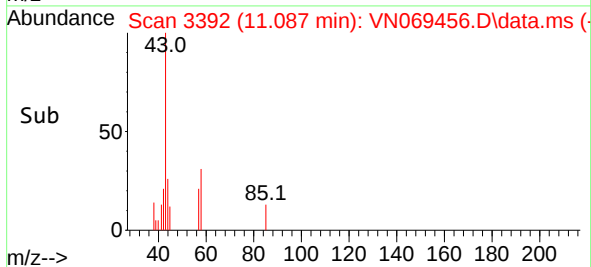
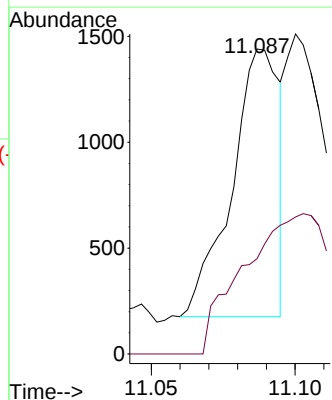
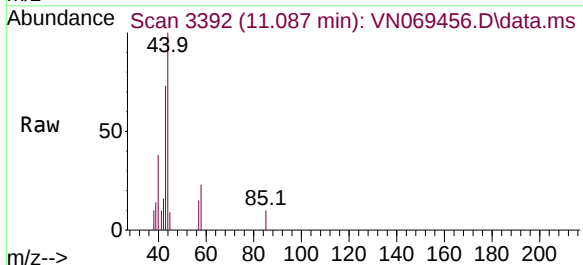
Instrument :
MSVOA_N
ClientSampleId :

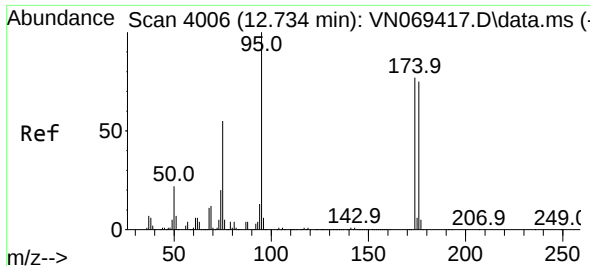
Tgt Ion: 69 Resp: 234
Ion Ratio Lower Upper
69 100
41 184.2 51.4 77.0#
39 90.6 34.6 52.0#



#59
2-Hexanone
Concen: 8.010 ug/l
RT: 11.087 min Scan# 3392
Delta R.T. -0.000 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

Tgt Ion: 43 Resp: 1455
Ion Ratio Lower Upper
43 100
58 93.9 26.9 80.7#

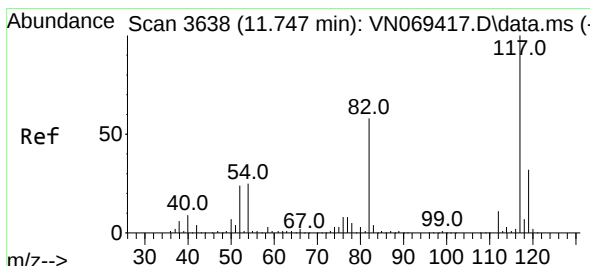
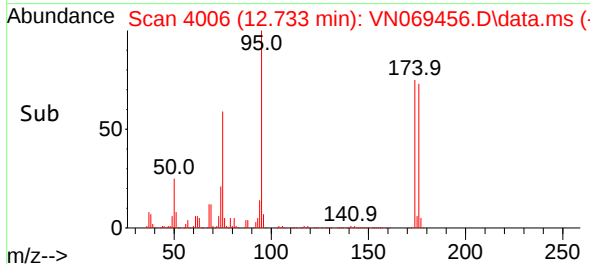
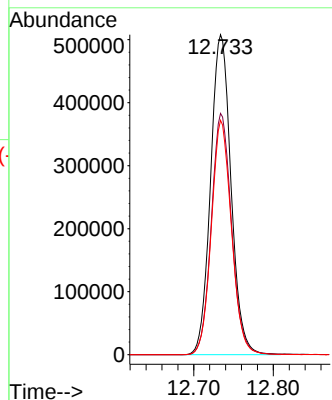
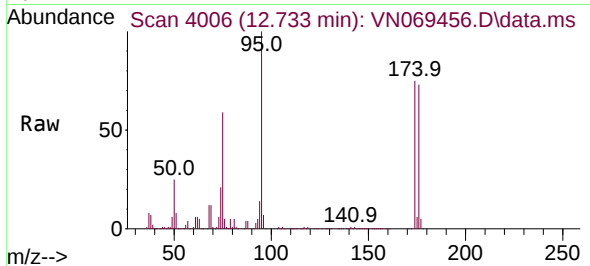




#62
4-Bromofluorobenzene
Concen: 50.266 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.001 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

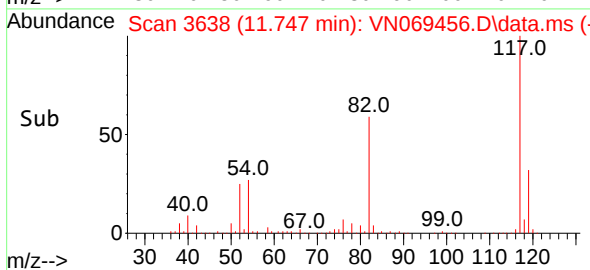
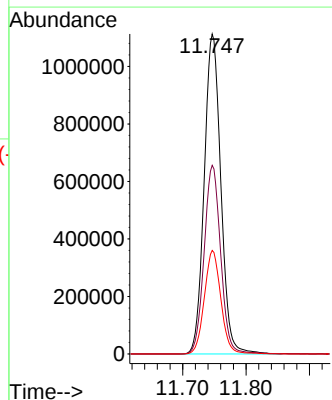
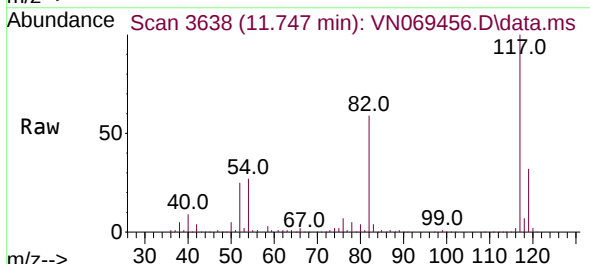
Instrument :
MSVOA_N
ClientSampleId :

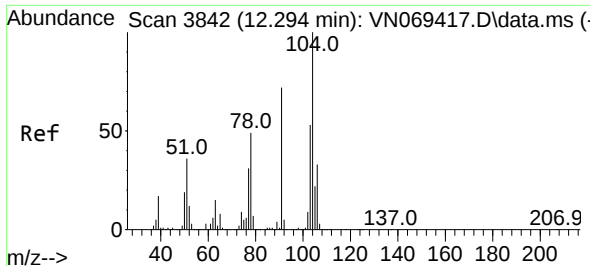
Tgt Ion: 95 Resp: 906947
Ion Ratio Lower Upper
95 100
174 74.8 0.0 187.2
176 72.0 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. -0.000 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

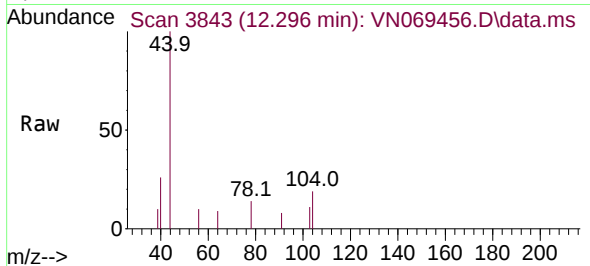
Tgt Ion: 117 Resp: 2030941
Ion Ratio Lower Upper
117 100
82 59.0 42.4 63.6
119 32.4 25.4 38.2



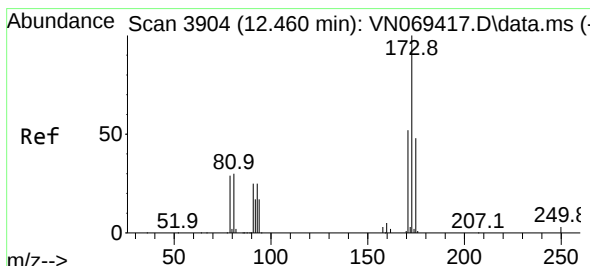
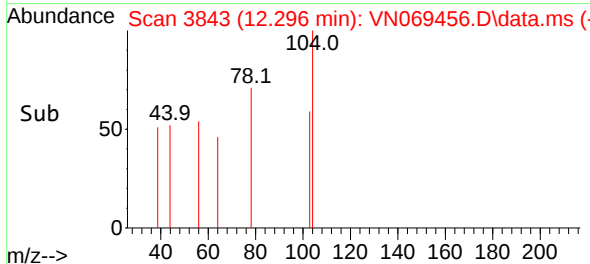
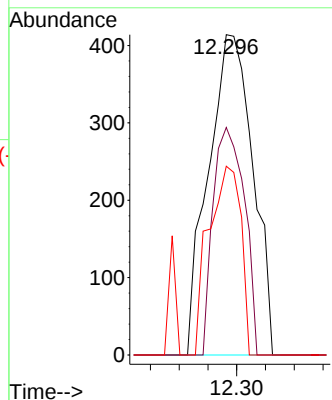


#70
Styrene
Concen: 1.530 ug/l
RT: 12.296 min Scan# 3842
Delta R.T. 0.002 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

Instrument :
MSVOA_N
ClientSampleId :

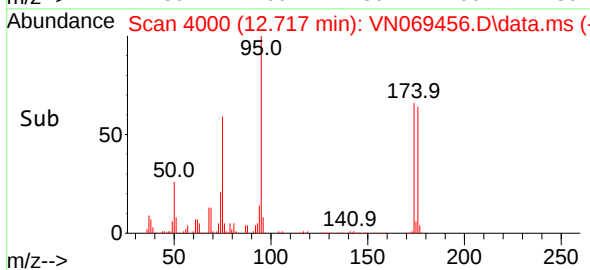
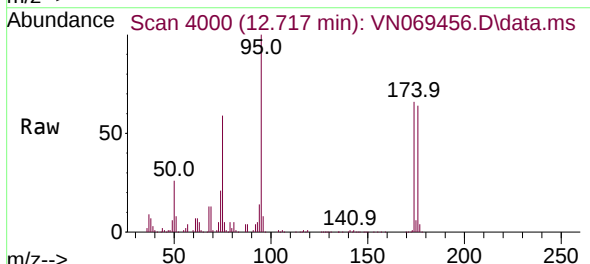
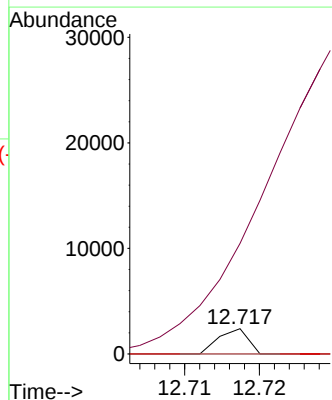


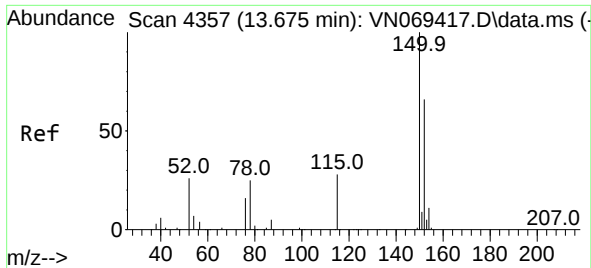
Tgt Ion:104 Resp: 446
Ion Ratio Lower Upper
104 100
78 50.0 38.7 58.1
103 42.6 45.0 67.6#



#71
Bromoform
Concen: 3.481 ug/l
RT: 12.717 min Scan# 4000
Delta R.T. 0.257 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

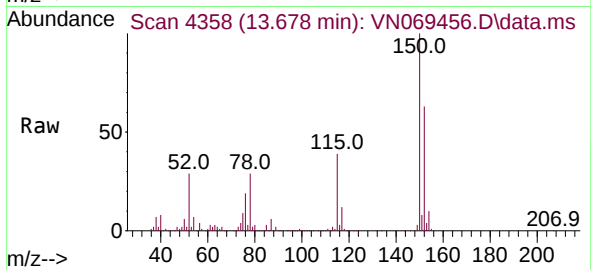
Tgt Ion:173 Resp: 654
Ion Ratio Lower Upper
173 100
175 7552.6 24.2 72.6#
254 0.0 0.0 0.0



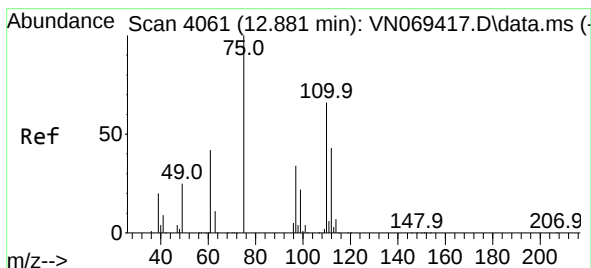
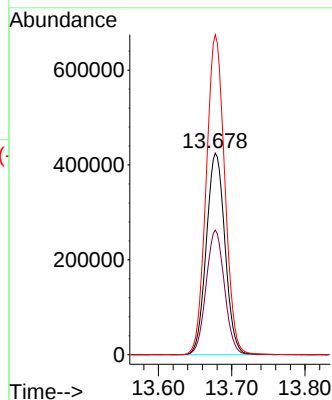
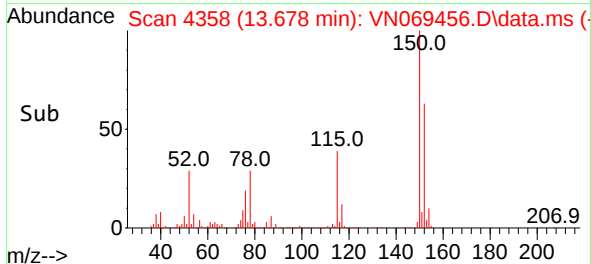


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.678 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VN069456.D
 Acq: 11 Nov 2021 16:10

Instrument :
 MSVOA_N
 ClientSampleId :

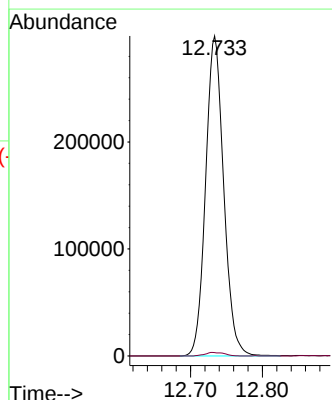
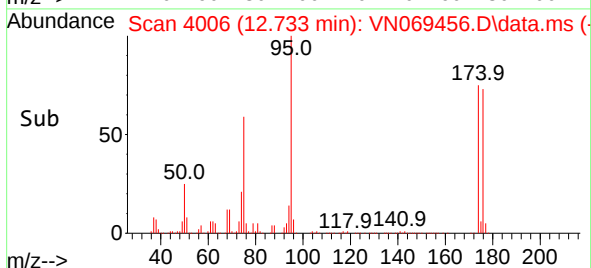
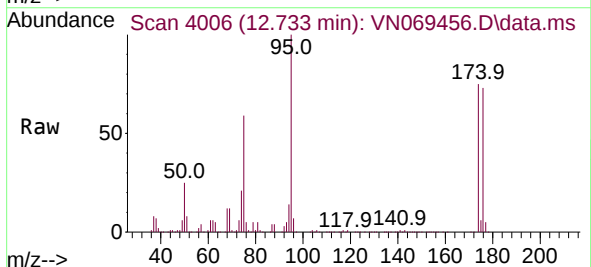


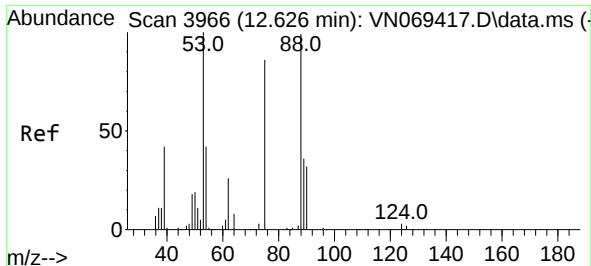
Tgt Ion:152 Resp: 752270
 Ion Ratio Lower Upper
 152 100
 115 61.0 27.5 82.5
 150 157.3 0.0 344.4



#76
 1,2,3-Trichloropropane
 Concen: 30.123 ug/l
 RT: 12.733 min Scan# 4006
 Delta R.T. -0.148 min
 Lab File: VN069456.D
 Acq: 11 Nov 2021 16:10

Tgt Ion: 75 Resp: 522951
 Ion Ratio Lower Upper
 75 100
 77 1.2 82.6 247.8#

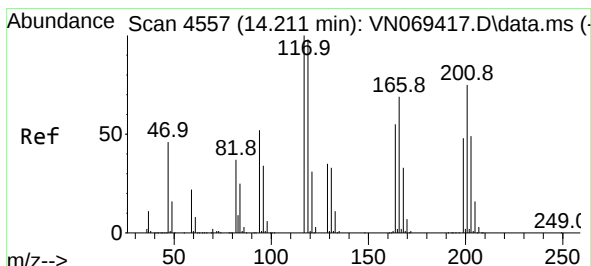
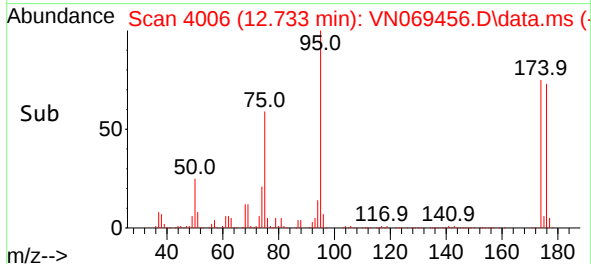
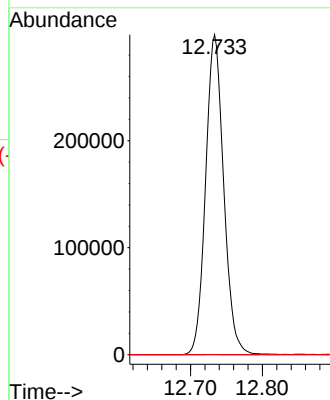
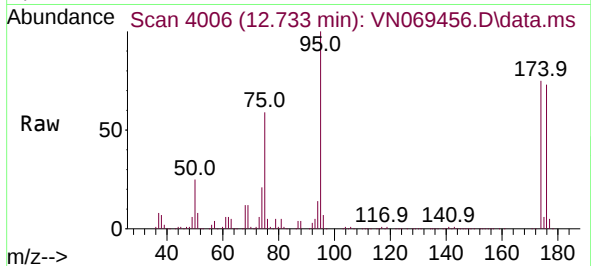




#81
trans-1,4-Dichloro-2-butene
Concen: 85.074 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

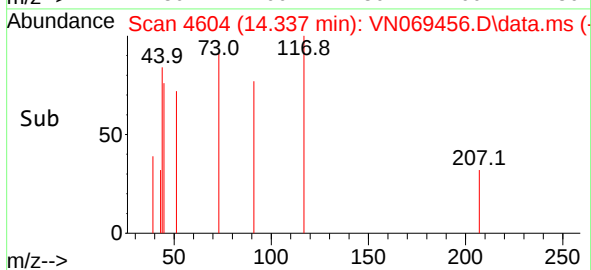
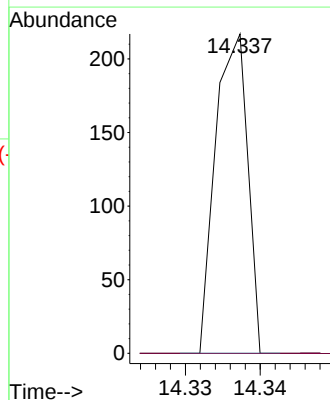
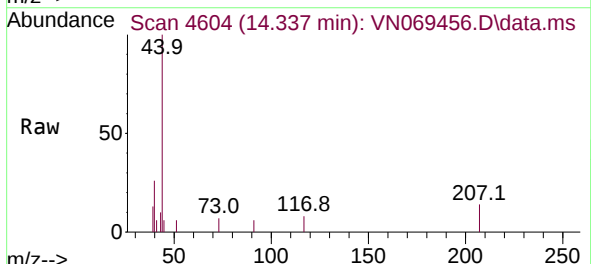
Instrument :
MSVOA_N
ClientSampleId :

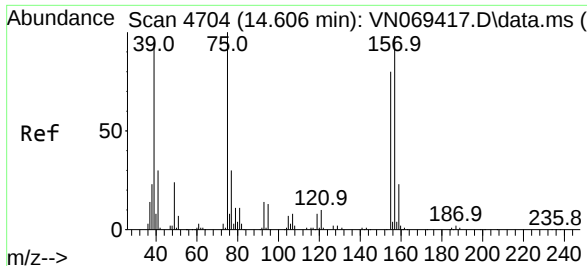
Tgt Ion: 75 Resp: 522951
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#



#90
Hexachloroethane
Concen: 2.169 ug/l
RT: 14.337 min Scan# 4604
Delta R.T. 0.126 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

Tgt Ion: 117 Resp: 64
Ion Ratio Lower Upper
117 100
201 0.0 43.9 131.6#

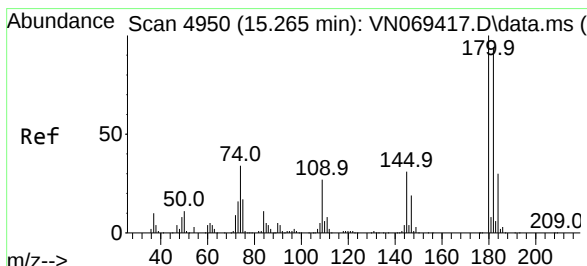
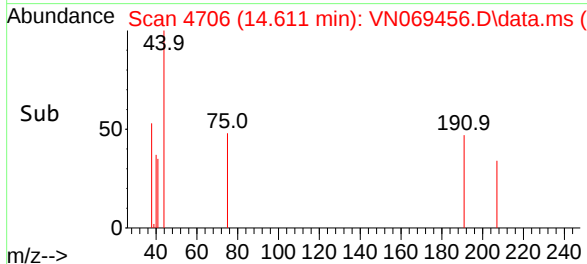
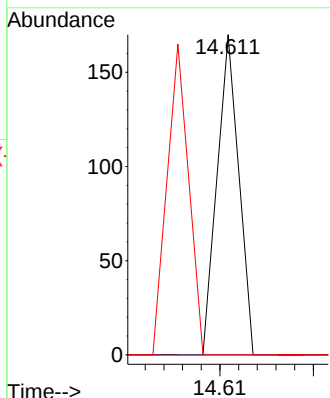
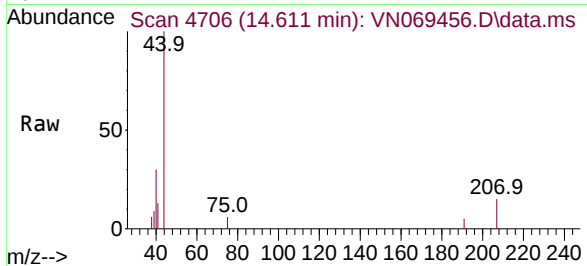




#92
1,2-Dibromo-3-Chloropropane
Concen: 1.804 ug/l
RT: 14.611 min Scan# 41
Delta R.T. 0.005 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

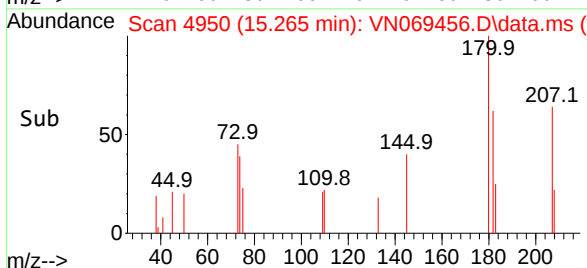
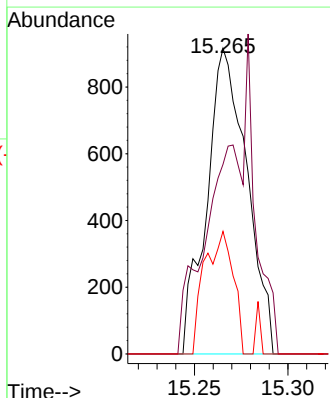
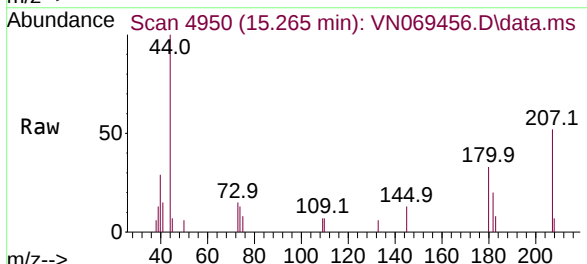
Instrument :
MSVOA_N
ClientSampleId :

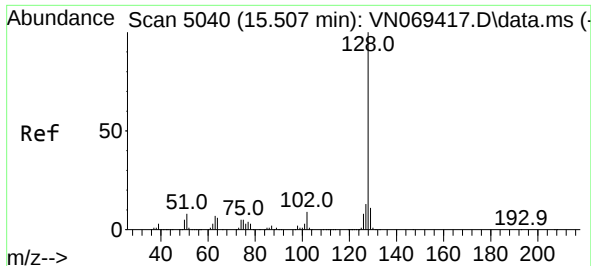
Tgt Ion: 75 Resp: 27
Ion Ratio Lower Upper
75 100
155 0.0 46.9 140.7#
157 100.0 60.6 181.7



#93
1,2,4-Trichlorobenzene
Concen: 3.222 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

Tgt Ion:180 Resp: 1371
Ion Ratio Lower Upper
180 100
182 58.6 48.3 144.9
145 28.5 14.5 43.5

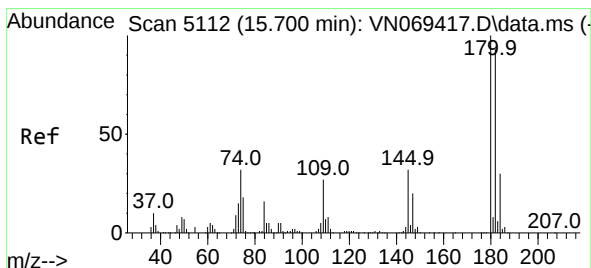
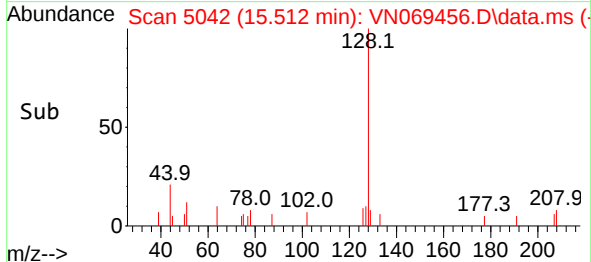
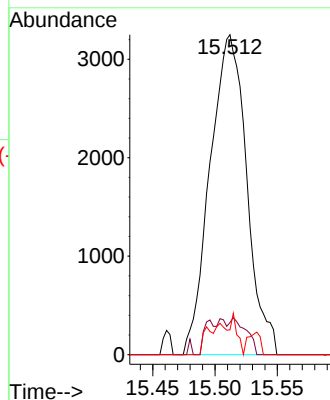
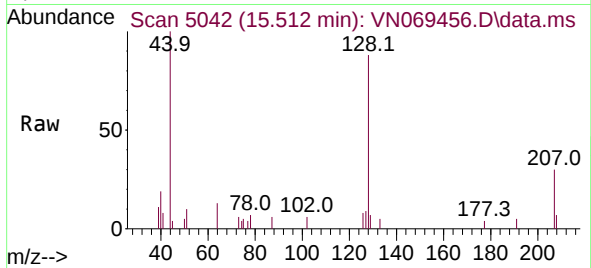




#95
Naphthalene
Concen: 4.632 ug/l
RT: 15.512 min Scan# 5040
Delta R.T. 0.005 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 6647
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 1.0 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 3.231 ug/l
RT: 15.697 min Scan# 5111
Delta R.T. -0.003 min
Lab File: VN069456.D
Acq: 11 Nov 2021 16:10

Tgt Ion:180 Resp: 745
Ion Ratio Lower Upper
180 100
182 149.5 47.4 142.2#
145 63.6 15.0 45.1#

