

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072821\
 Data File : VN067948.D
 Acq On : 28 Jul 2021 12:57
 Operator : JC/MD
 Sample : VN0728WBL01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 29 02:49:24 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N070721W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 07 16:18:53 2021
 Response via : Initial Calibration

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

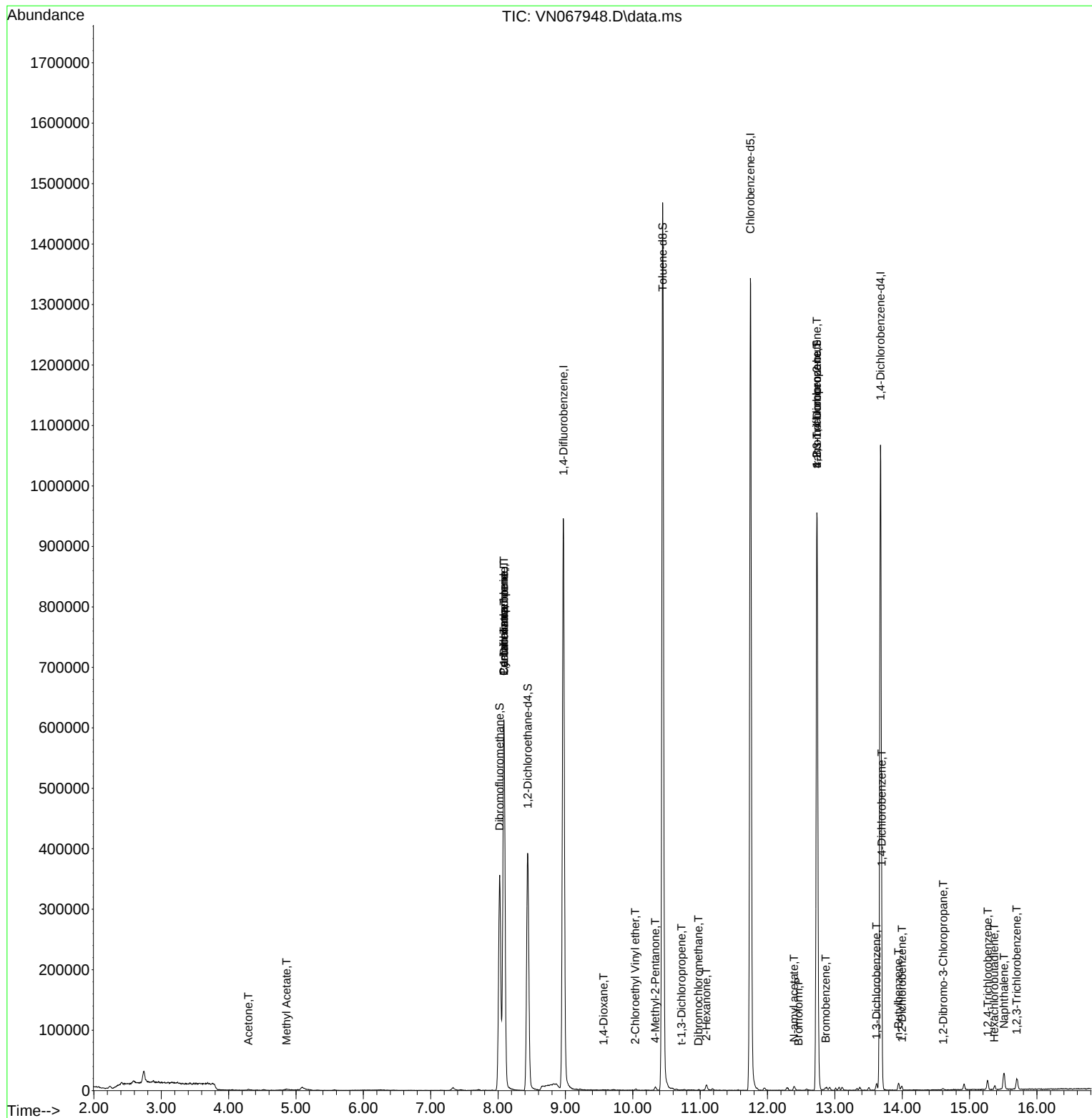
Internal Standards						
1) Pentafluorobenzene	8.086	168	455128	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	855373	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	788480	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	283375	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	337206	49.024	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	98.040%		
35) Dibromofluoromethane	8.024	113	255049	49.352	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	98.700%		
50) Toluene-d8	10.443	98	1044728	48.296	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	96.600%		
62) 4-Bromofluorobenzene	12.734	95	341527	44.693	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	89.380%		
Target Compounds						
					Qvalue	
5) Bromomethane	2.802	94	76	Below Cal	#	4
6) Chloroethane	3.009	64	78	Below Cal	#	1
7) Trichlorofluoromethane	3.387	101	107	Below Cal	#	18
13) Acrolein	4.033	56	82	Below Cal	#	28
16) Acetone	4.293	43	1450	0.670	ug/l #	87
18) Methyl Acetate	4.857	43	1229	0.202	ug/l #	74
20) Methylene Chloride	5.095	84	3128	Below Cal	#	86
31) Cyclohexane	8.086	56	11481	1.190	ug/l #	1
36) 1,1-Dichloropropene	8.086	75	40315	5.074	ug/l #	52
38) Carbon Tetrachloride	8.086	117	50334	6.422	ug/l #	17
49) 1,4-Dioxane	9.566	88	56	32.588	ug/l #	20
51) 4-Methyl-2-Pentanone	10.333	43	4477	0.538	ug/l #	86
53) t-1,3-Dichloropropene	10.722	75	309	1.774	ug/l #	56
58) 2-Chloroethyl Vinyl ether	10.038	63	612	17.246	ug/l #	82
59) 2-Hexanone	11.090	43	7868	1.355	ug/l	92
60) Dibromochloromethane	10.974	129	86	2.368	ug/l #	11
71) Bromoform	12.463	173	49	3.185	ug/l #	29
74) N-amyl acetate	12.393	43	4303	0.519	ug/l #	96
76) 1,2,3-Trichloropropane	12.734	75	186369	32.205	ug/l #	100
77) Bromobenzene	12.862	156	1025	0.203	ug/l #	39
81) trans-1,4-Dichloro-2-b...	12.734	75	186369	103.831	ug/l #	6
87) 1,3-Dichlorobenzene	13.619	146	3021	0.322	ug/l #	73
88) 1,4-Dichlorobenzene	13.696	146	3890	0.405	ug/l #	46
89) n-Butylbenzene	13.946	91	7353	0.486	ug/l	97
91) 1,2-Dichlorobenzene	13.997	146	2951	0.326	ug/l	93
92) 1,2-Dibromo-3-Chloropr...	14.608	75	553	0.480	ug/l	81
93) 1,2,4-Trichlorobenzene	15.271	180	4940	3.665	ug/l	92
94) Hexachlorobutadiene	15.365	225	562	0.295	ug/l #	42
95) Naphthalene	15.509	128	27226	4.856	ug/l	97
96) 1,2,3-Trichlorobenzene	15.700	180	3681	3.403	ug/l #	47

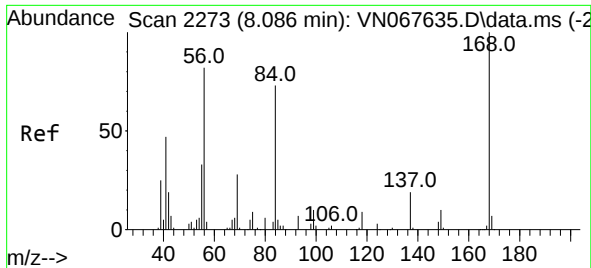
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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Response via : Initial Calibration

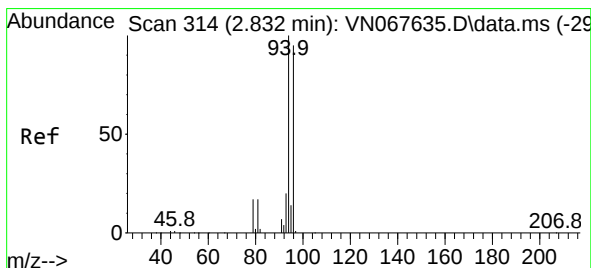
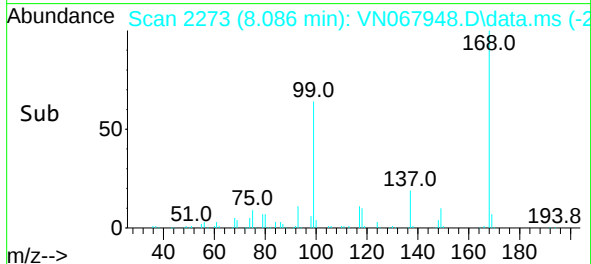
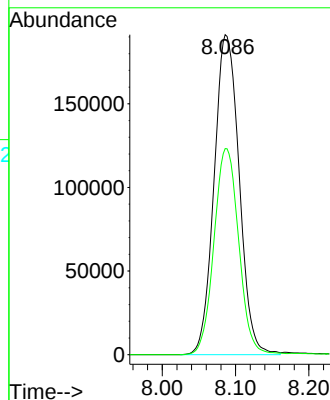
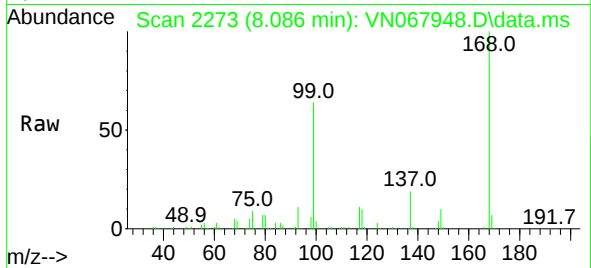




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.000 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

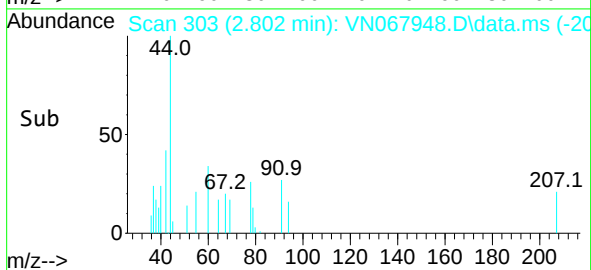
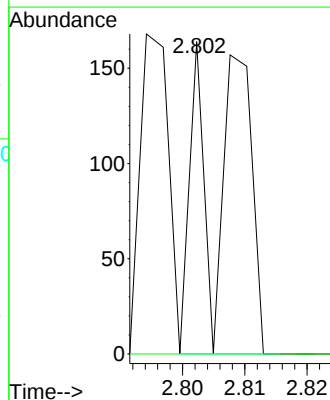
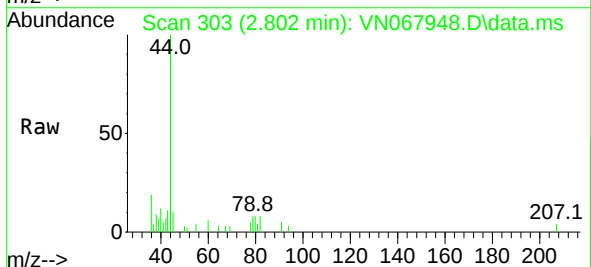
Instrument :
MSVOA_N
ClientSampleId :

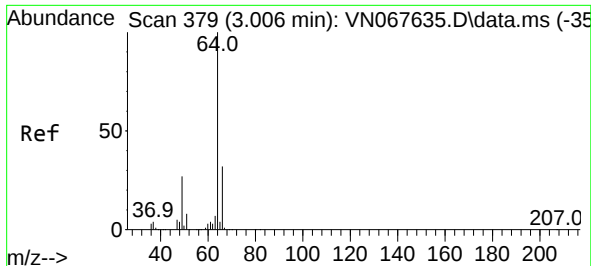
Tgt Ion:168 Resp: 455128
Ion Ratio Lower Upper
168 100
99 64.4 62.9 94.3



#5
Bromomethane
Concen: Below Cal
RT: 2.802 min Scan# 303
Delta R.T. -0.030 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

Tgt Ion: 94 Resp: 76
Ion Ratio Lower Upper
94 100
96 0.0 73.7 110.5#

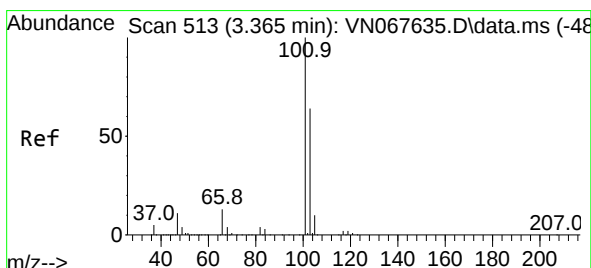
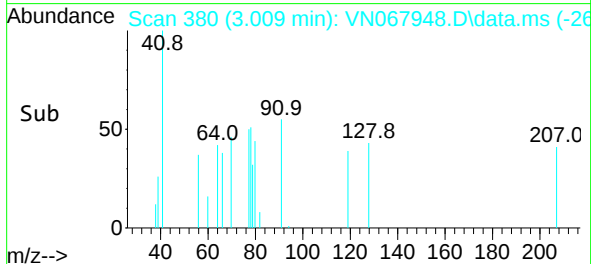
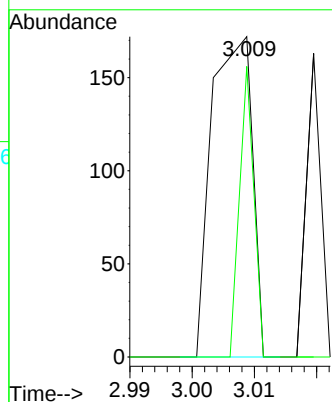
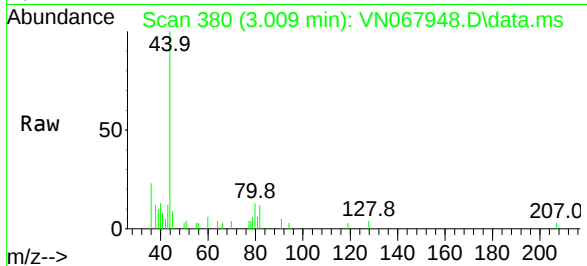




#6
Chloroethane
Concen: Below Cal
RT: 3.009 min Scan# 380
Delta R.T. 0.003 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

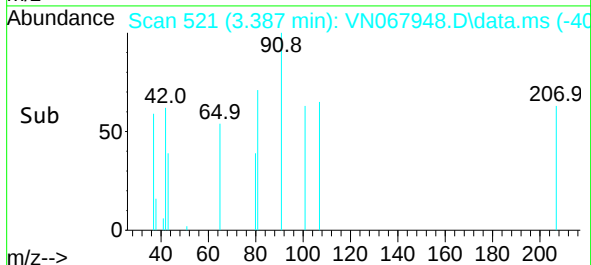
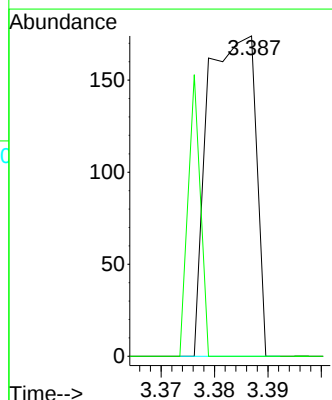
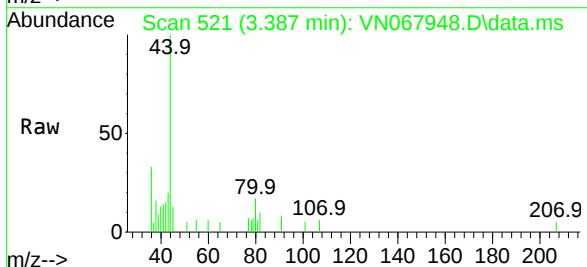
Instrument :
MSVOA_N
ClientSampled :

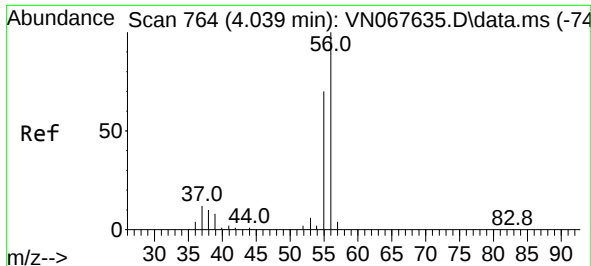
Tgt Ion: 64 Resp: 78
Ion Ratio Lower Upper
64 100
66 90.7 24.7 37.1#



#7
Trichlorofluoromethane
Concen: Below Cal
RT: 3.387 min Scan# 521
Delta R.T. 0.022 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

Tgt Ion: 101 Resp: 107
Ion Ratio Lower Upper
101 100
103 0.0 51.2 76.8#

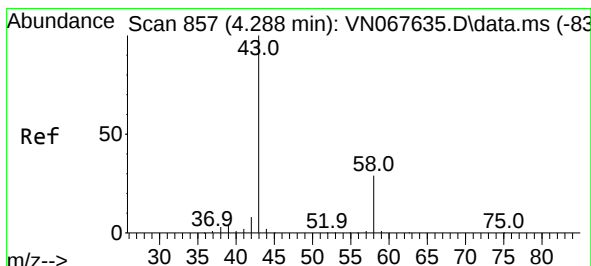
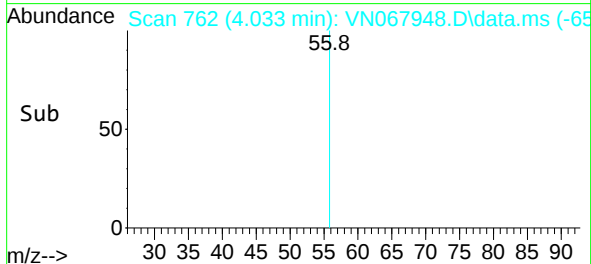
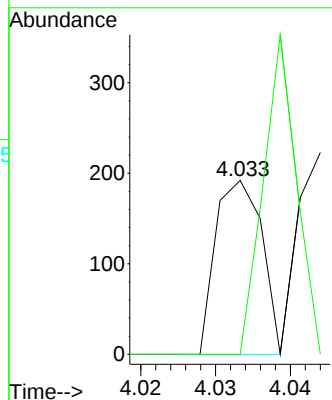
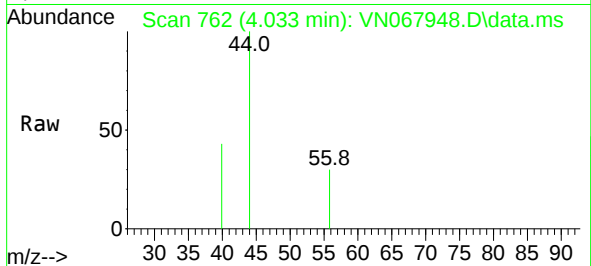




#13
Acrolein
Concen: Below Cal
RT: 4.033 min Scan# 762
Delta R.T. -0.006 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

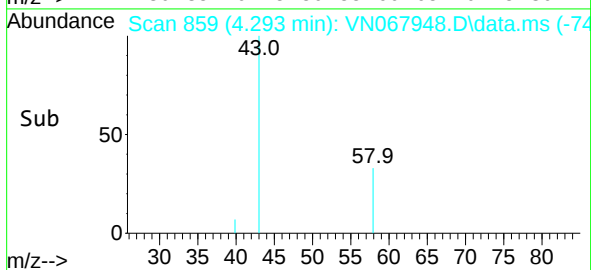
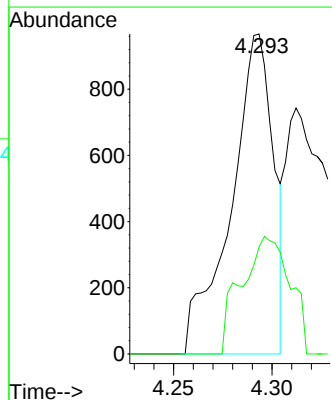
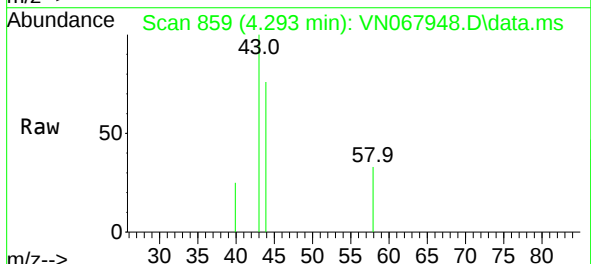
Instrument :
MSVOA_N
ClientSampled :

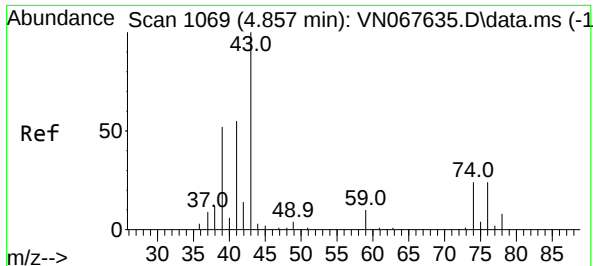
Tgt Ion: 56 Resp: 82
Ion Ratio Lower Upper
56 100
55 131.7 57.4 86.0#



#16
Acetone
Concen: 0.670 ug/l
RT: 4.293 min Scan# 859
Delta R.T. 0.005 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

Tgt Ion: 43 Resp: 1450
Ion Ratio Lower Upper
43 100
58 33.4 21.2 31.8#

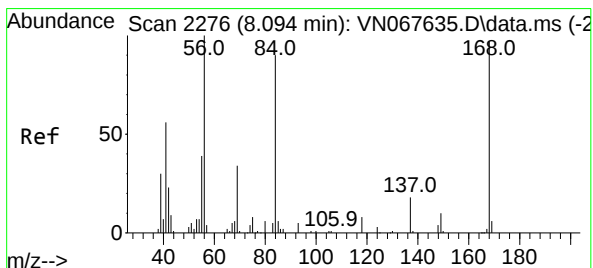
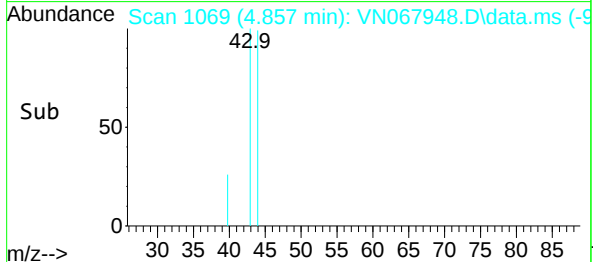
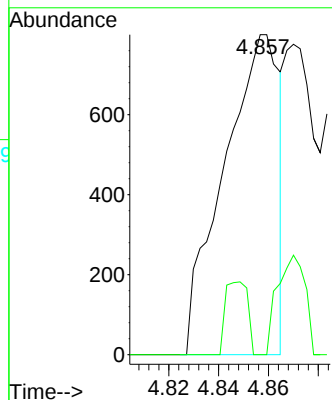
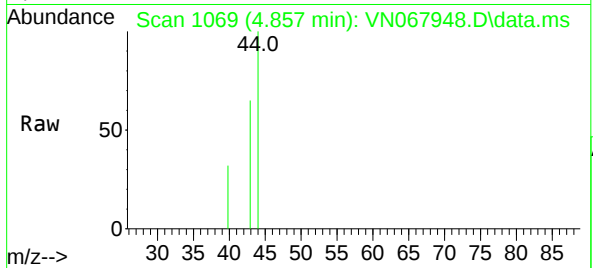




#18
Methyl Acetate
Concen: 0.202 ug/l
RT: 4.857 min Scan# 1069
Delta R.T. -0.000 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

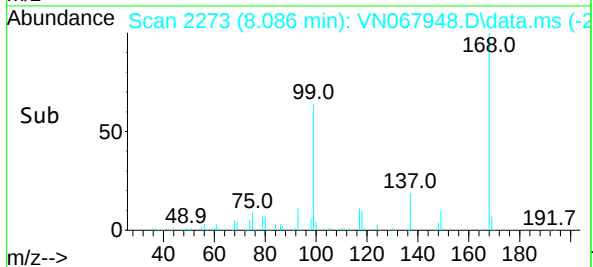
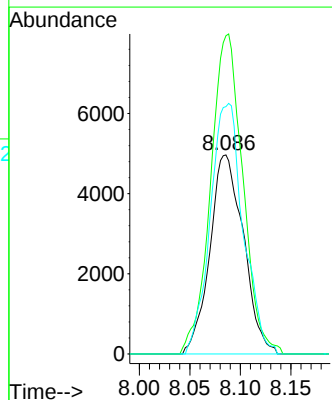
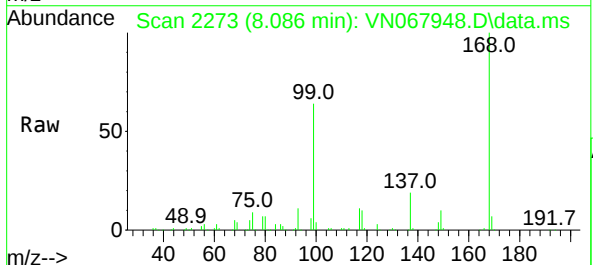
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MSVOA_N
ClientSampled :

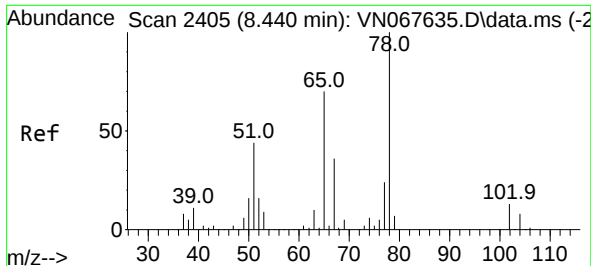
Tgt Ion: 43 Resp: 1229
Ion Ratio Lower Upper
43 100
74 9.2 17.4 26.0#



#31
Cyclohexane
Concen: 1.190 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.008 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

Tgt Ion: 56 Resp: 11481
Ion Ratio Lower Upper
56 100
69 159.8 27.3 40.9#
84 124.3 64.9 97.3#

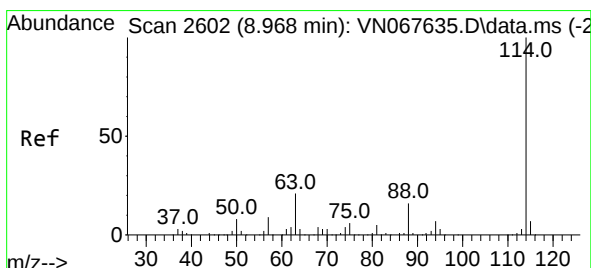
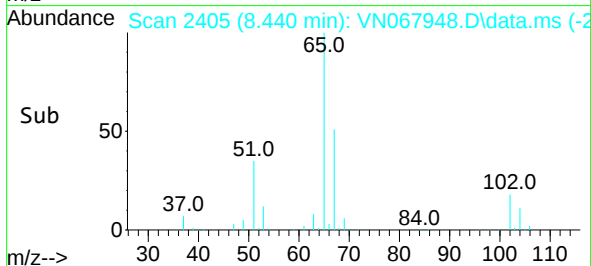
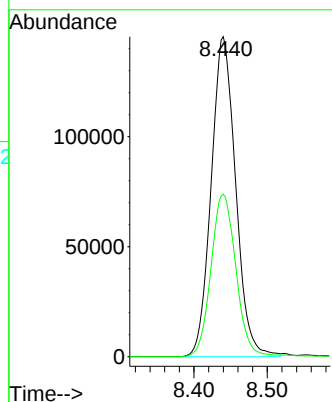
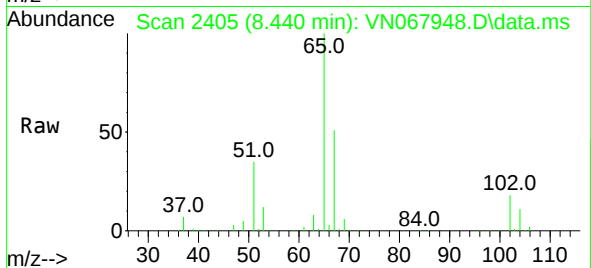




#33
 1,2-Dichloroethane-d4
 Concen: 49.024 ug/l
 RT: 8.440 min Scan# 2405
 Delta R.T. -0.000 min
 Lab File: VN067948.D
 Acq: 28 Jul 2021 12:57

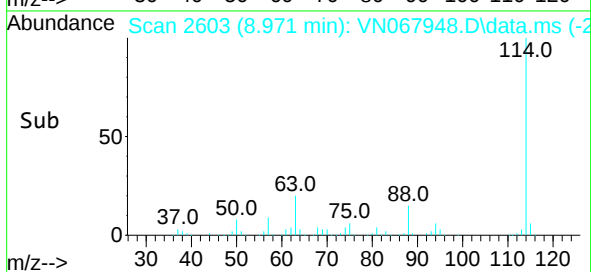
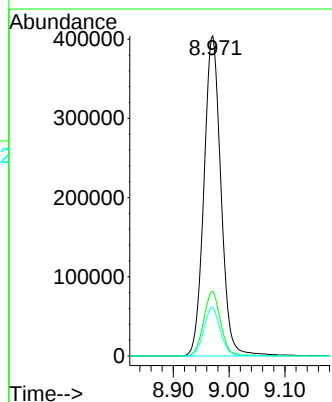
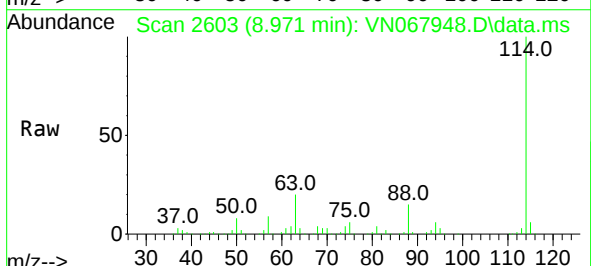
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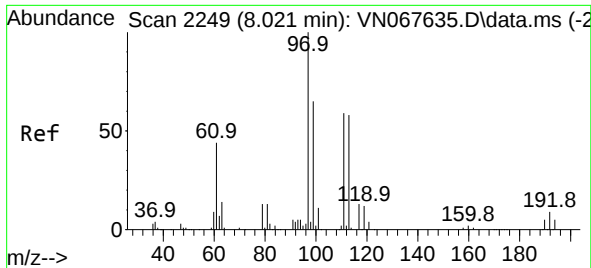
Tgt Ion: 65 Resp: 337206
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 98.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.971 min Scan# 2603
 Delta R.T. 0.003 min
 Lab File: VN067948.D
 Acq: 28 Jul 2021 12:57

Tgt Ion: 114 Resp: 855373
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 49.0
 88 15.1 0.0 36.6

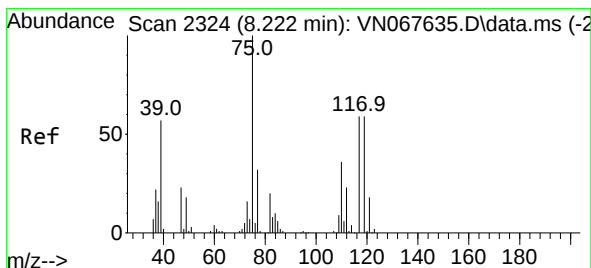
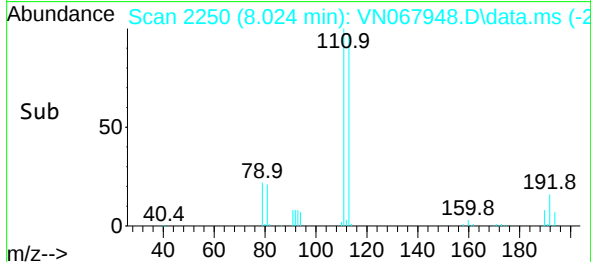
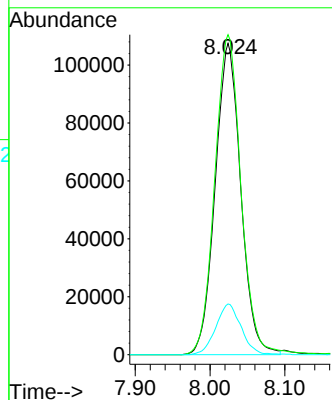
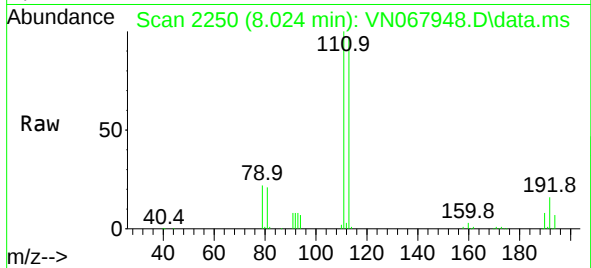




#35
Dibromofluoromethane
Concen: 49.352 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

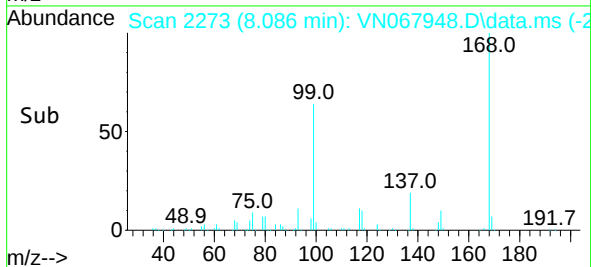
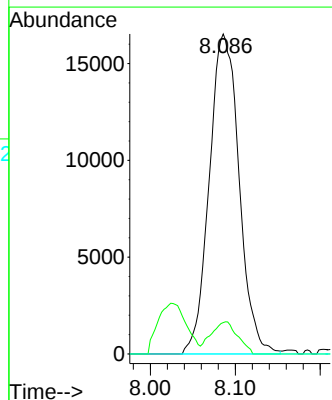
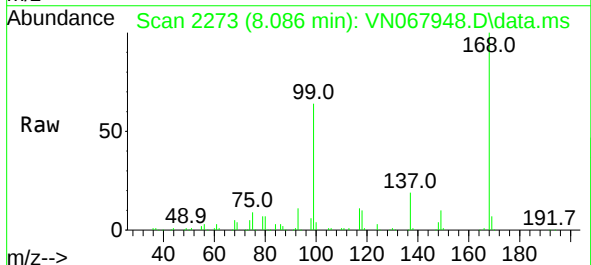
Instrument :
MSVOA_N
ClientSampled :

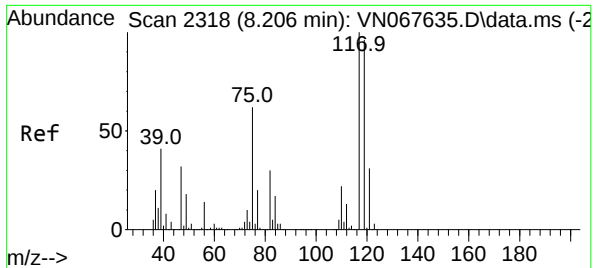
Tgt Ion:113 Resp: 255049
Ion Ratio Lower Upper
113 100
111 105.6 83.8 125.8
192 16.2 13.4 20.0



#36
1,1-Dichloropropene
Concen: 5.074 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.136 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

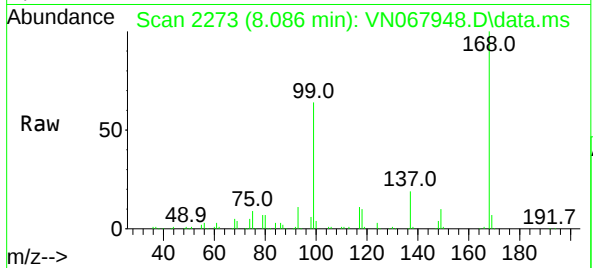
Tgt Ion: 75 Resp: 40315
Ion Ratio Lower Upper
75 100
110 9.0 15.7 47.0#
77 0.0 24.6 37.0#



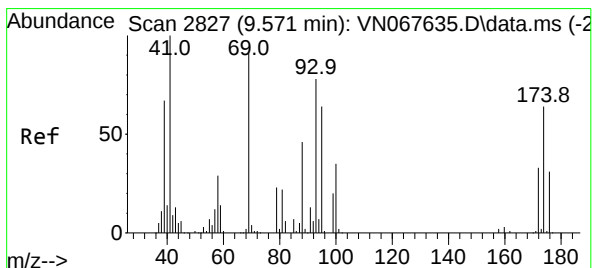
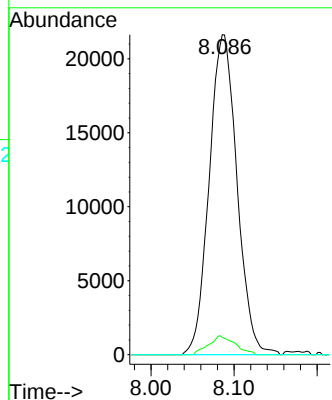
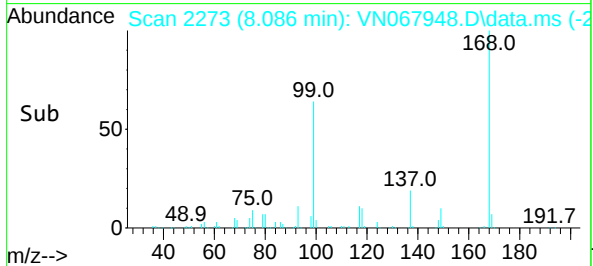


#38
Carbon Tetrachloride
Concen: 6.422 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.120 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

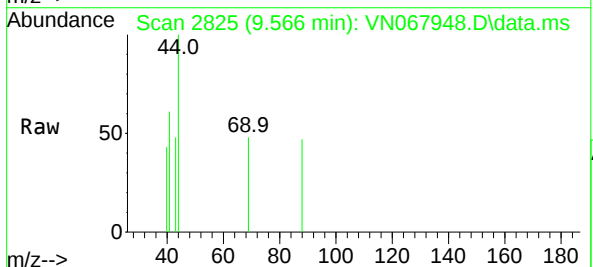
Instrument :
MSVOA_N
ClientSampled :



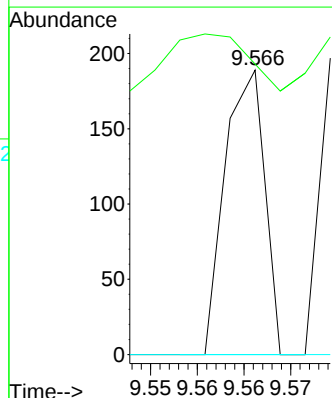
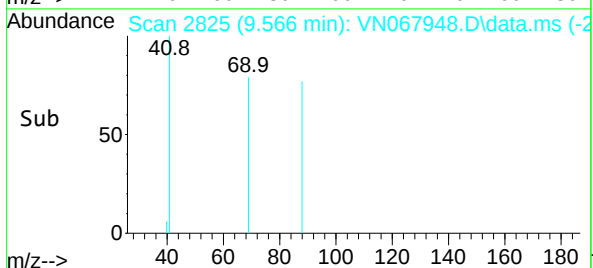
Tgt Ion:117 Resp: 50334
Ion Ratio Lower Upper
117 100
119 5.4 75.4 113.2#
121 0.0 23.5 35.3#

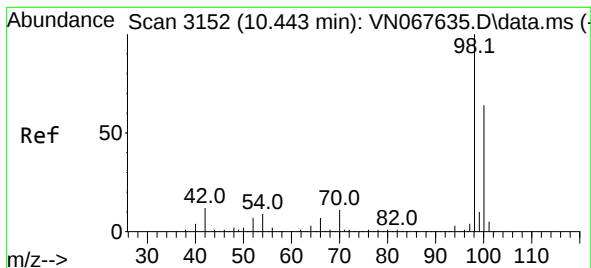


#49
1,4-Dioxane
Concen: 32.588 ug/l
RT: 9.566 min Scan# 2825
Delta R.T. -0.005 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57



Tgt Ion: 88 Resp: 56
Ion Ratio Lower Upper
88 100
43 0.0 28.8 43.2#
58 0.0 60.4 90.6#

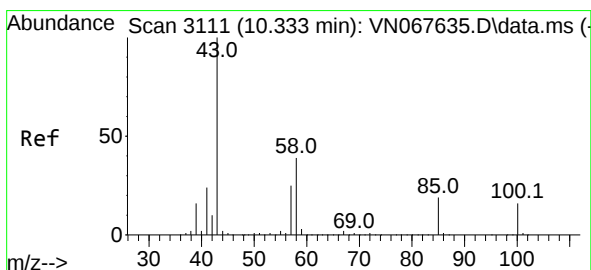
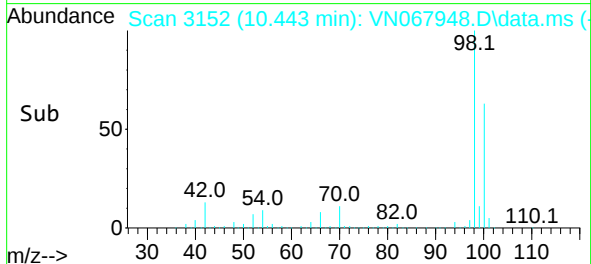
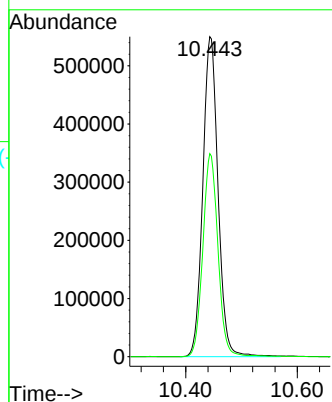
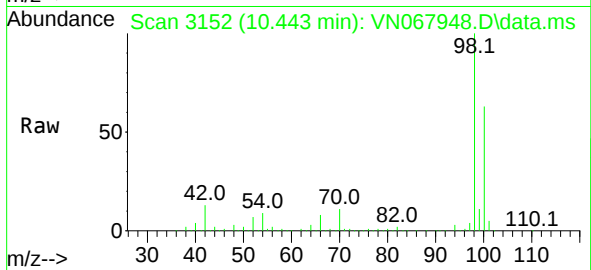




#50
Toluene-d8
Concen: 48.296 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

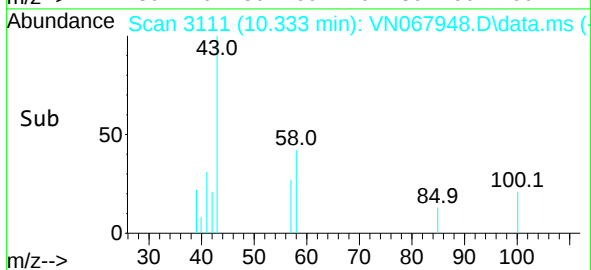
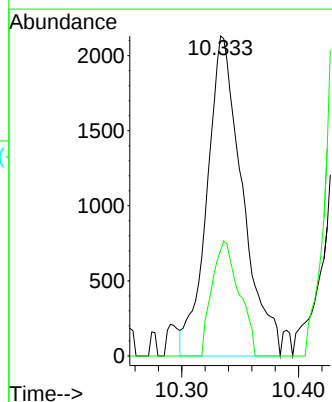
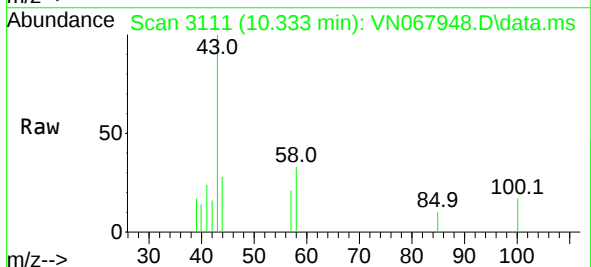
Instrument :
MSVOA_N
ClientSampled :

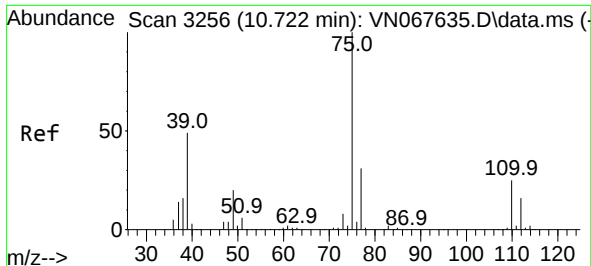
Tgt Ion: 98 Resp: 1044728
Ion Ratio Lower Upper
98 100
100 62.9 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 0.538 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.000 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

Tgt Ion: 43 Resp: 4477
Ion Ratio Lower Upper
43 100
58 27.5 28.6 43.0#

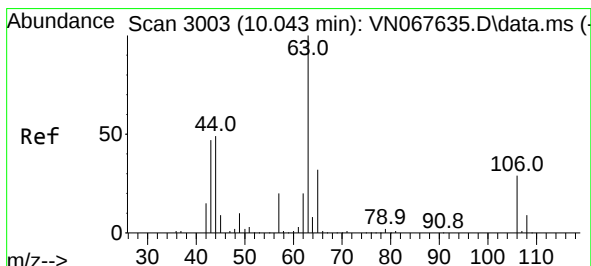
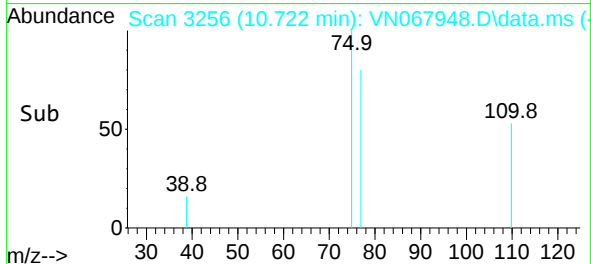
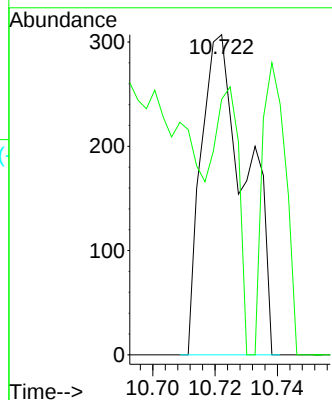
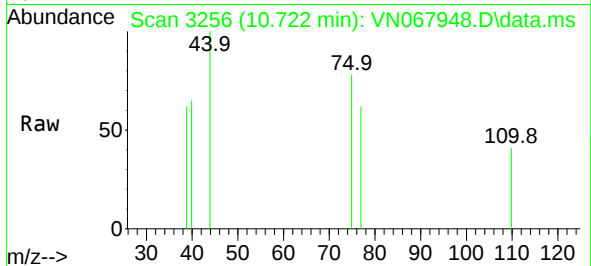




#53
t-1,3-Dichloropropene
Concen: 1.774 ug/l
RT: 10.722 min Scan# 3256
Delta R.T. 0.000 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

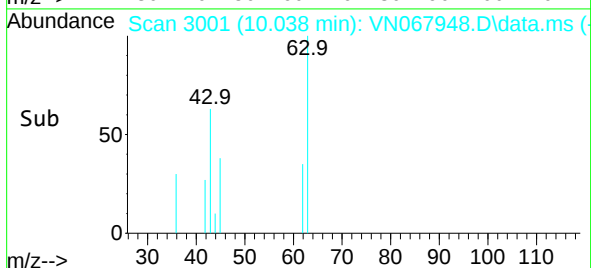
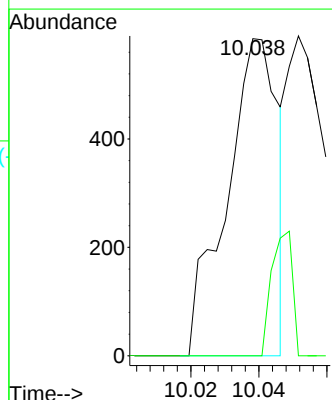
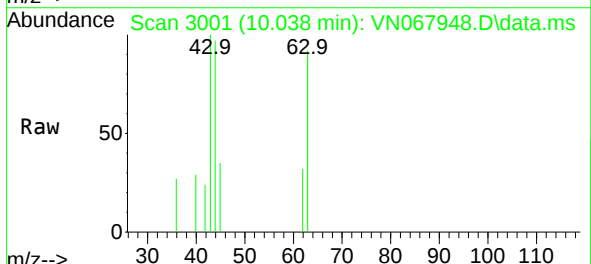
Instrument :
MSVOA_N
ClientSampled :

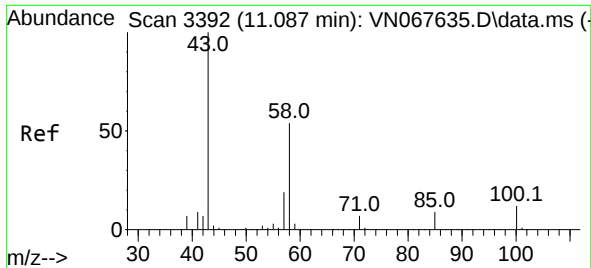
Tgt Ion: 75 Resp: 309
Ion Ratio Lower Upper
75 100
77 7.2 25.1 37.7#



#58
2-Chloroethyl Vinyl ether
Concen: 17.246 ug/l
RT: 10.038 min Scan# 3001
Delta R.T. -0.005 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

Tgt Ion: 63 Resp: 612
Ion Ratio Lower Upper
63 100
106 15.8 19.8 29.8#

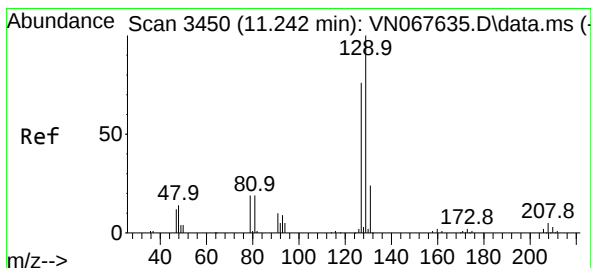
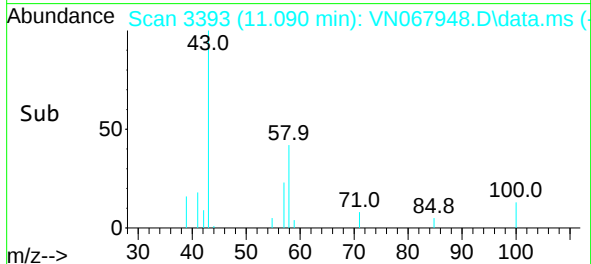
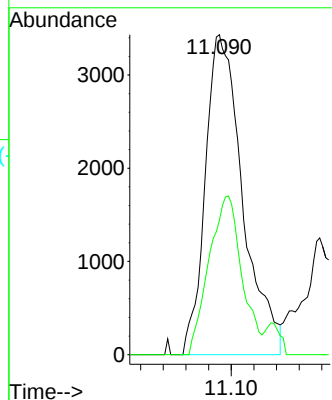
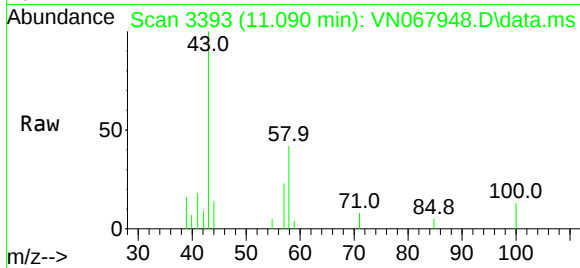




#59
2-Hexanone
Concen: 1.355 ug/l
RT: 11.090 min Scan# 3393
Delta R.T. 0.003 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

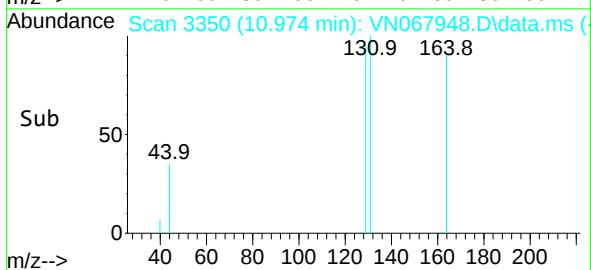
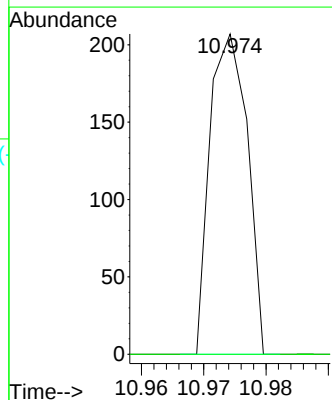
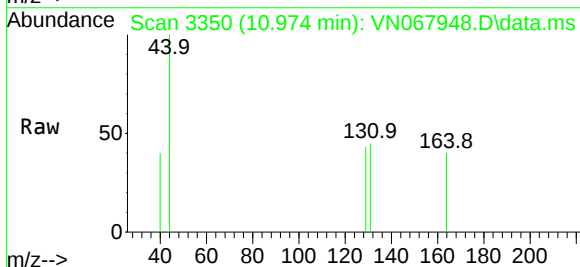
Instrument :
MSVOA_N
ClientSampled :

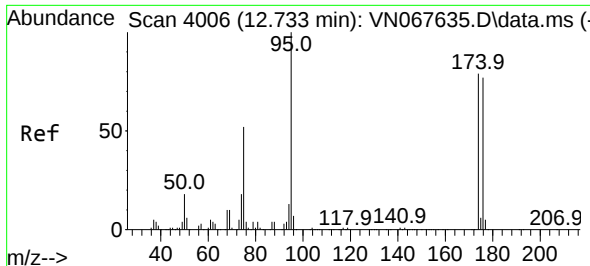
Tgt Ion: 43 Resp: 7868
Ion Ratio Lower Upper
43 100
58 43.7 24.7 74.1



#60
Dibromochloromethane
Concen: 2.368 ug/l
RT: 10.974 min Scan# 3350
Delta R.T. -0.268 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

Tgt Ion: 129 Resp: 86
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#

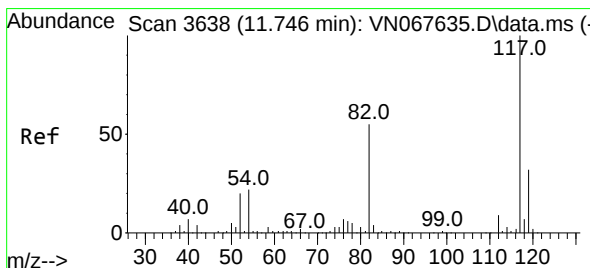
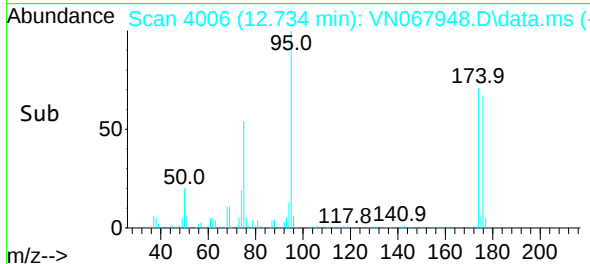
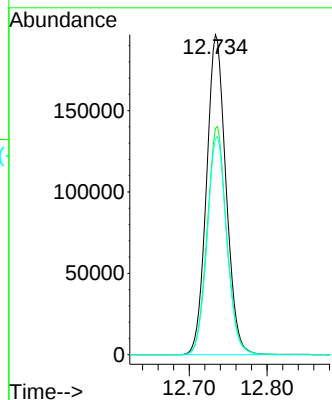
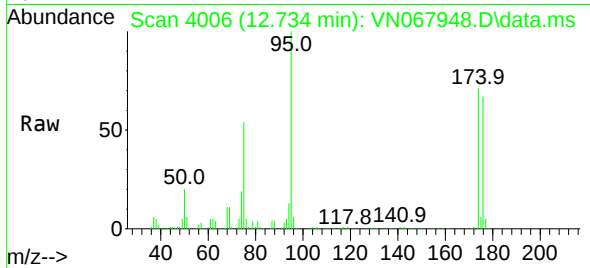




#62
4-Bromofluorobenzene
Concen: 44.693 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.001 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

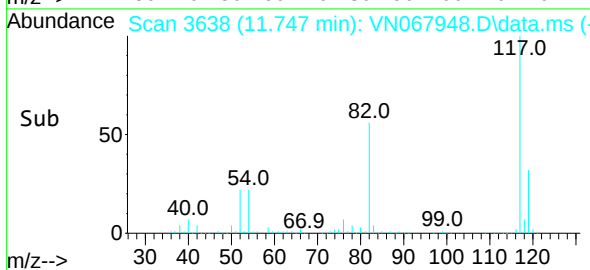
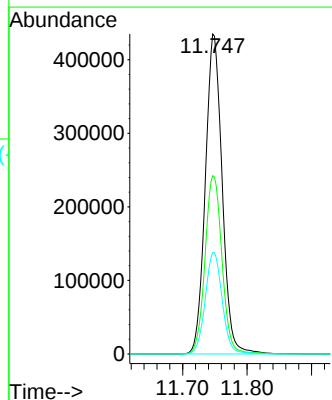
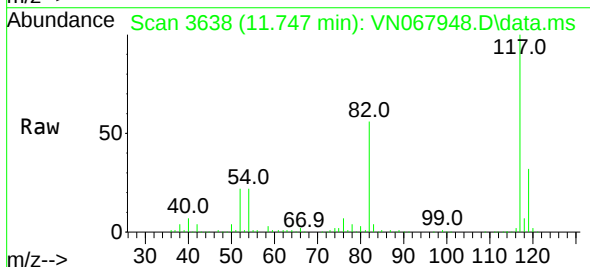
Instrument :
MSVOA_N
ClientSampled :

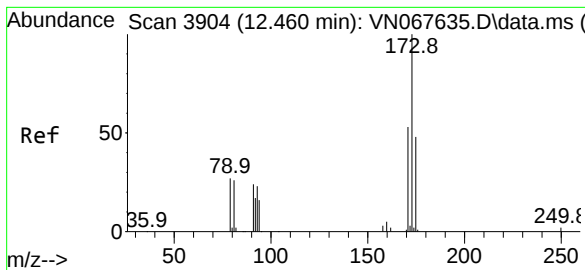
Tgt Ion: 95 Resp: 341527
Ion Ratio Lower Upper
95 100
174 71.6 0.0 122.0
176 68.8 0.0 117.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

Tgt Ion: 117 Resp: 788480
Ion Ratio Lower Upper
117 100
82 55.7 53.1 79.7
119 31.7 25.5 38.3

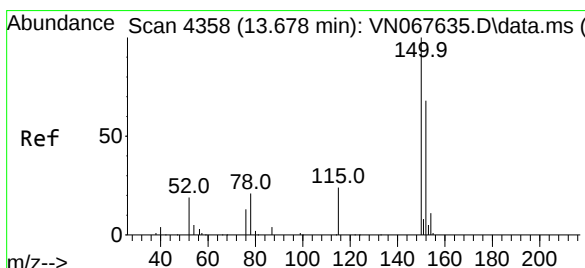
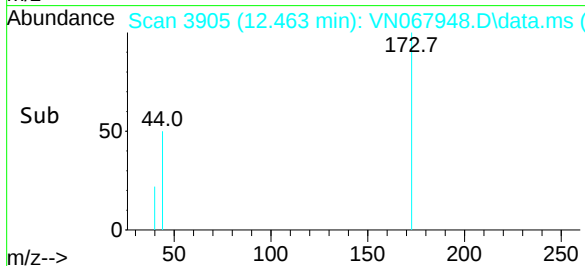
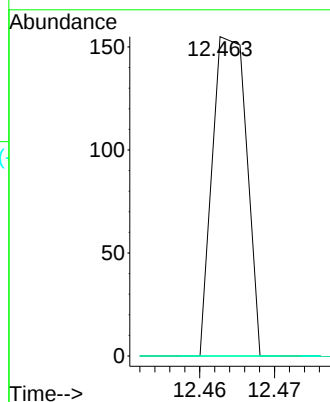
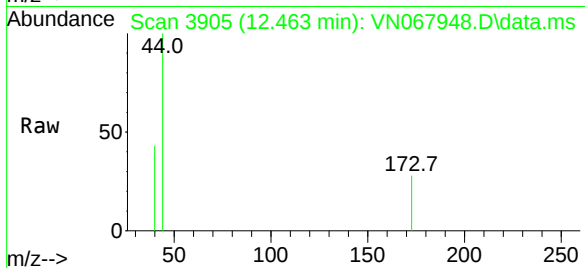




#71
Bromoform
Concen: 3.185 ug/l
RT: 12.463 min Scan# 3905
Delta R.T. 0.003 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

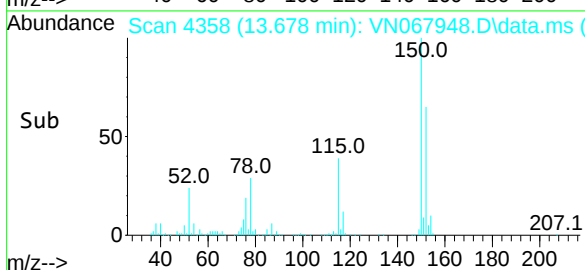
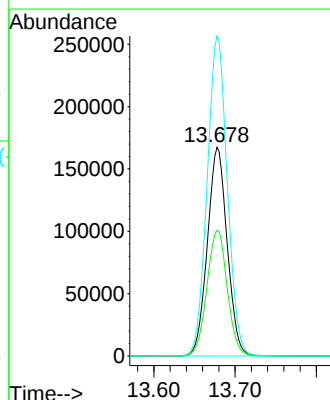
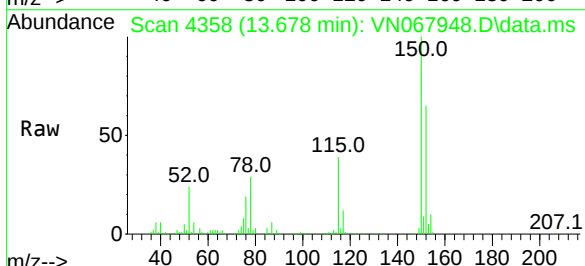
Instrument :
MSVOA_N
ClientSampled :

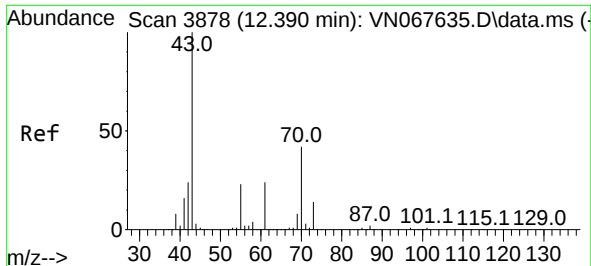
Tgt Ion:173 Resp: 49
Ion Ratio Lower Upper
173 100
175 0.0 23.9 71.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.000 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

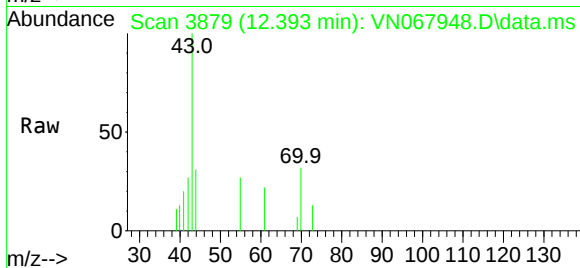
Tgt Ion:152 Resp: 283375
Ion Ratio Lower Upper
152 100
115 61.7 36.1 108.5
150 155.7 0.0 351.8



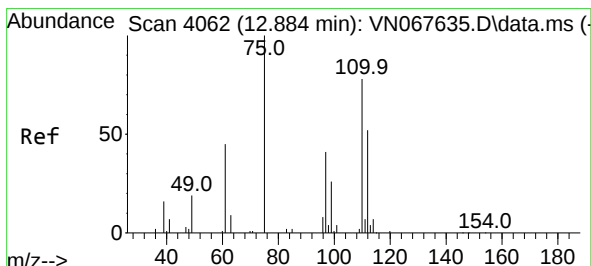
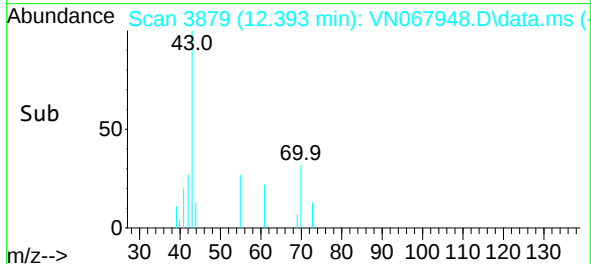
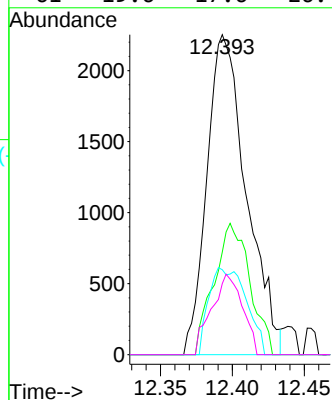


#74
N-amy1 acetate
Concen: 0.519 ug/l
RT: 12.393 min Scan# 3879
Delta R.T. 0.003 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

Instrument :
MSVOA_N
ClientSampled :

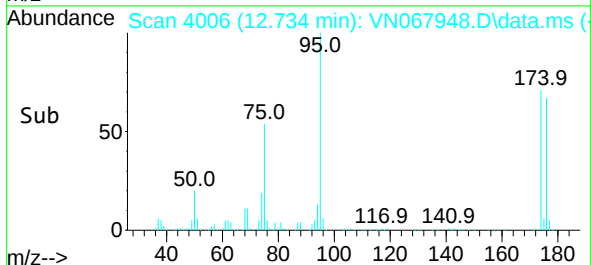
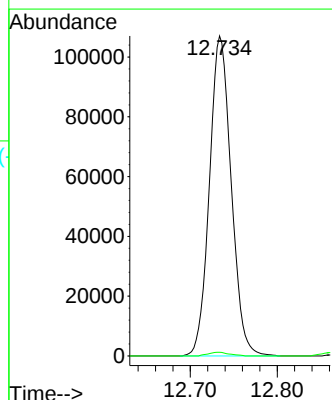
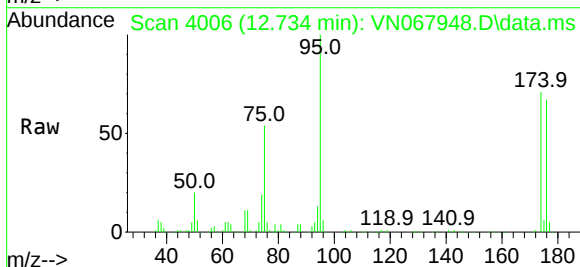


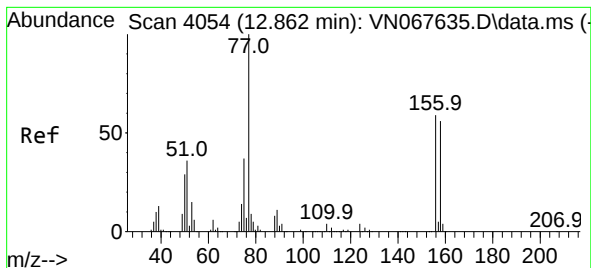
Tgt Ion:	43	Resp:	4303
Ion Ratio	100	Lower	Upper
70	37.3	29.4	44.2
55	25.7	17.0	25.4#
61	19.6	17.6	26.4



#76
1,2,3-Trichloropropane
Concen: 32.205 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.150 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

Tgt Ion:	75	Resp:	186369
Ion Ratio	100	Lower	Upper
77	1.1	0.0	0.0#

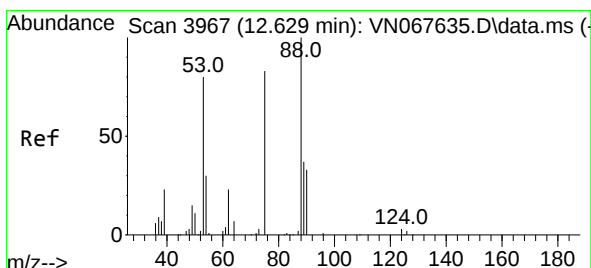
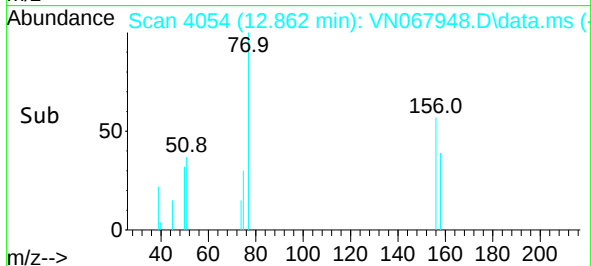
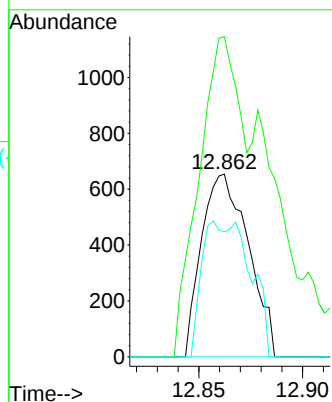
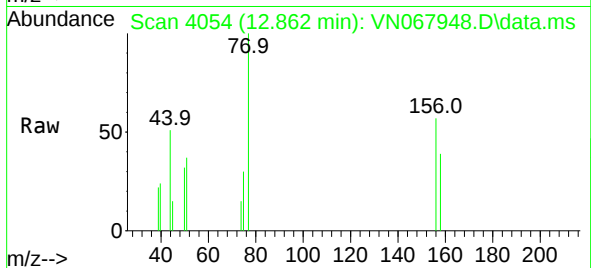




#77
Bromobenzene
Concen: 0.203 ug/l
RT: 12.862 min Scan# 4054
Delta R.T. 0.000 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

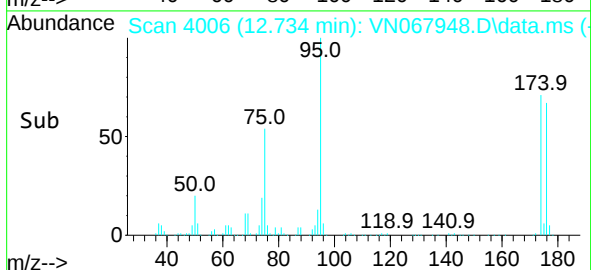
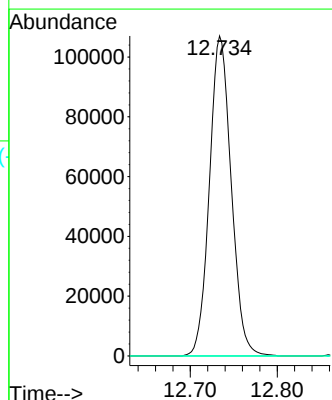
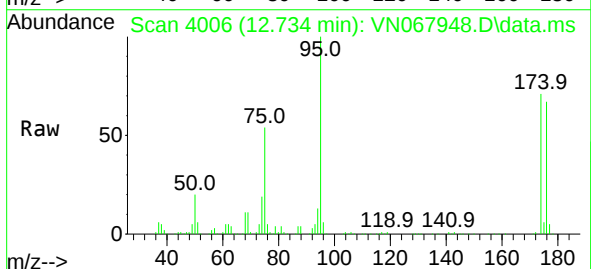
Instrument :
MSVOA_N
ClientSampled :

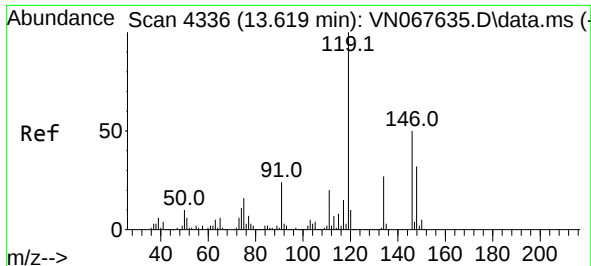
Tgt Ion:156 Resp: 1025
Ion Ratio Lower Upper
156 100
77 159.7 136.2 408.6
158 37.5 48.4 145.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 103.831 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

Tgt Ion: 75 Resp: 186369
Ion Ratio Lower Upper
75 100
53 0.0 87.6 131.4#
89 0.0 37.8 56.8#



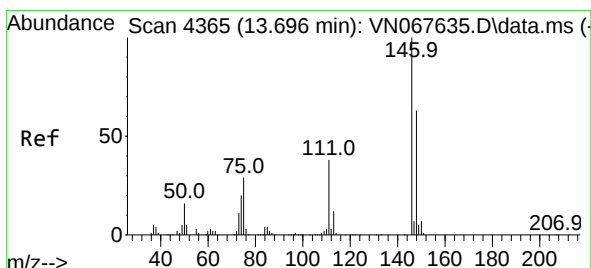
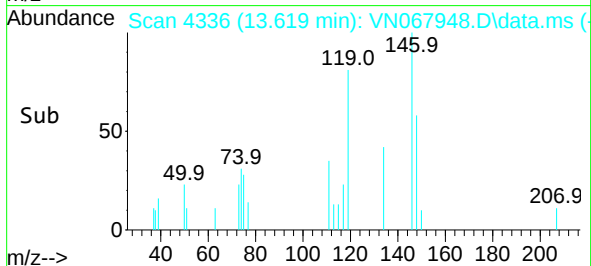
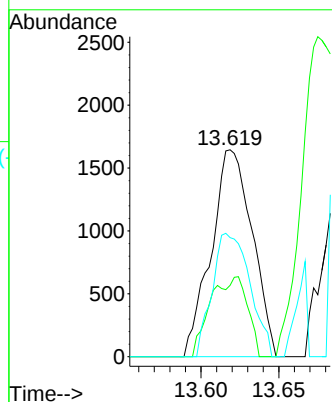
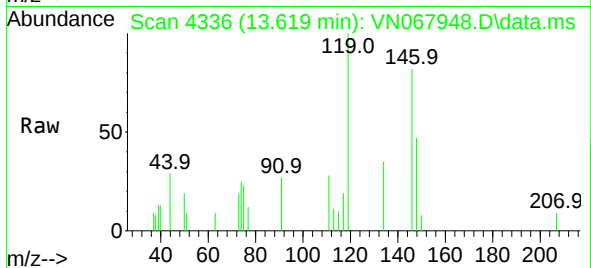


#87

1,3-Dichlorobenzene
Concen: 0.322 ug/l
RT: 13.619 min Scan# 4336
Delta R.T. -0.000 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

Instrument :
MSVOA_N
ClientSampled :

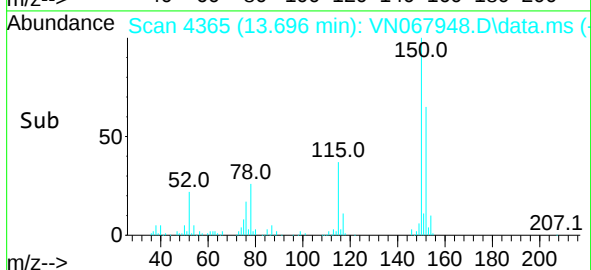
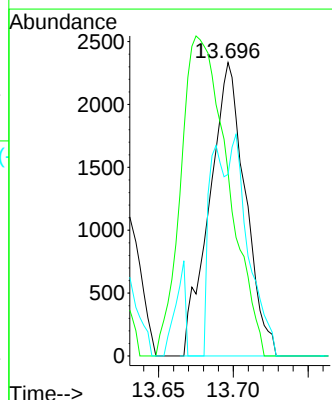
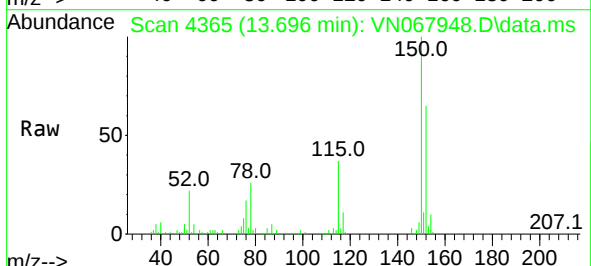
Tgt Ion:146 Resp: 3021
Ion Ratio Lower Upper
146 100
111 17.3 24.3 72.8#
148 54.5 32.0 96.0

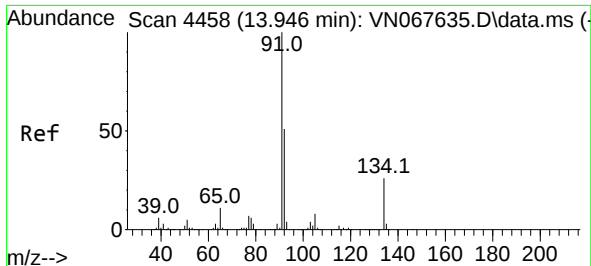


#88

1,4-Dichlorobenzene
Concen: 0.405 ug/l
RT: 13.696 min Scan# 4365
Delta R.T. 0.000 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

Tgt Ion:146 Resp: 3890
Ion Ratio Lower Upper
146 100
111 0.0 23.4 70.2#
148 31.1 31.8 95.3#

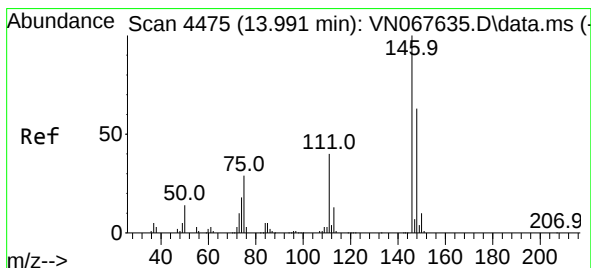
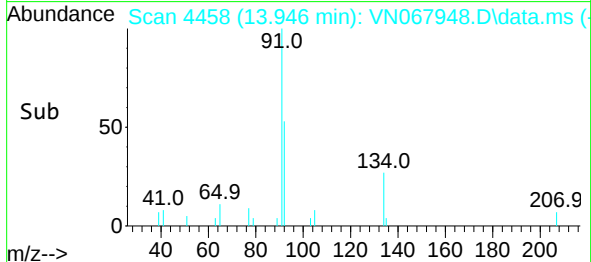
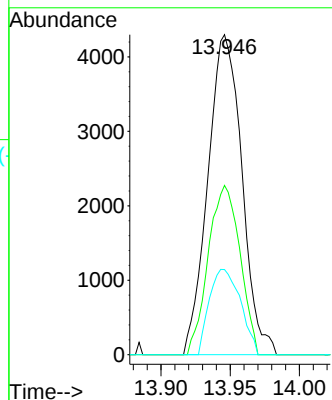
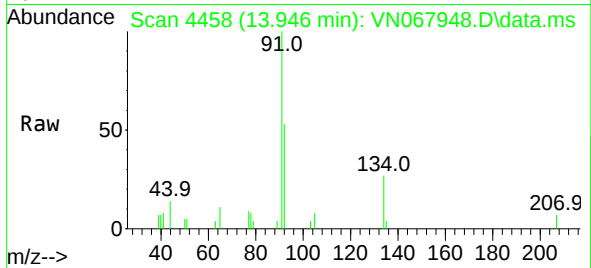




#89
n-Butylbenzene
Concen: 0.486 ug/l
RT: 13.946 min Scan# 4458
Delta R.T. -0.000 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

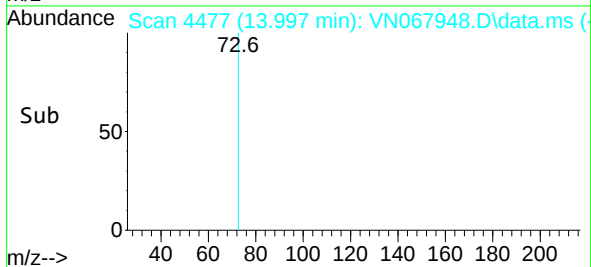
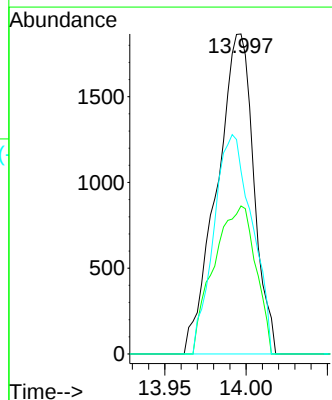
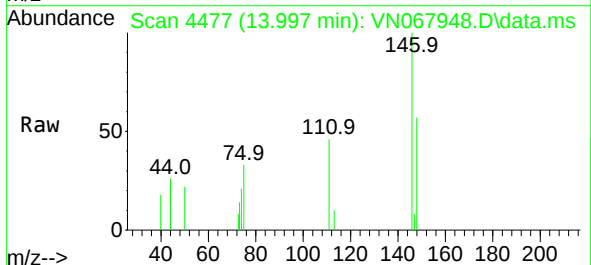
Instrument :
MSVOA_N
ClientSampleId :

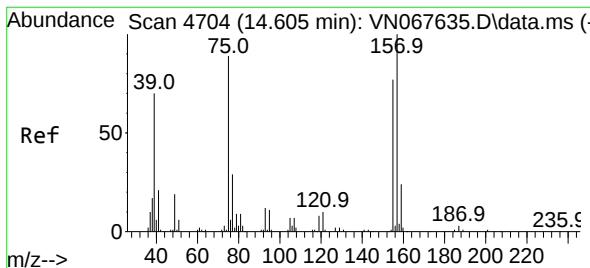
Tgt Ion:	91	Resp:	7353
Ion	Ratio	Lower	Upper
91	100		
92	49.3	25.7	77.1
134	24.4	11.2	33.6



#91
1,2-Dichlorobenzene
Concen: 0.326 ug/l
RT: 13.997 min Scan# 4477
Delta R.T. 0.006 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

Tgt Ion:	146	Resp:	2951
Ion	Ratio	Lower	Upper
146	100		
111	52.3	24.9	74.6
148	71.0	31.6	95.0

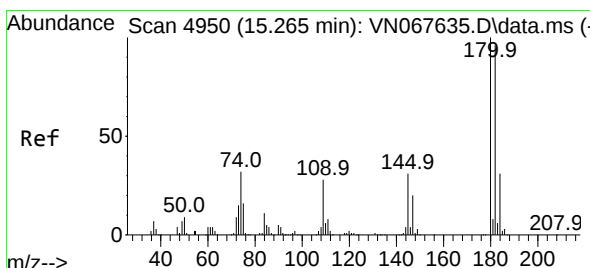
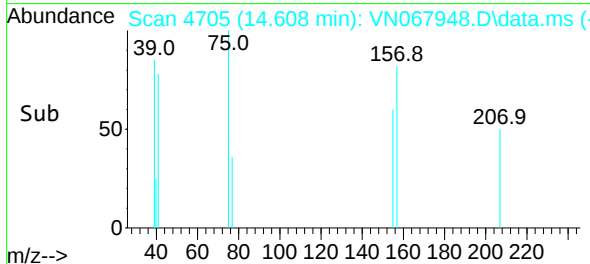
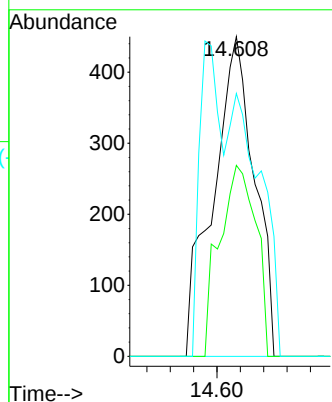
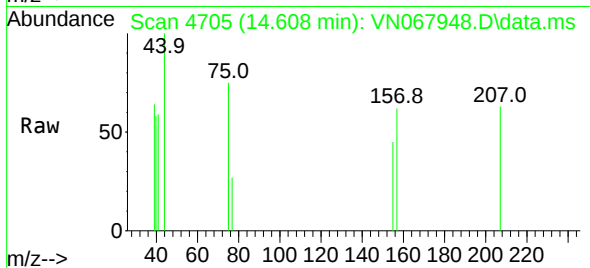




#92
1,2-Dibromo-3-Chloropropane
Concen: 0.480 ug/l
RT: 14.608 min Scan# 4705
Delta R.T. 0.003 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

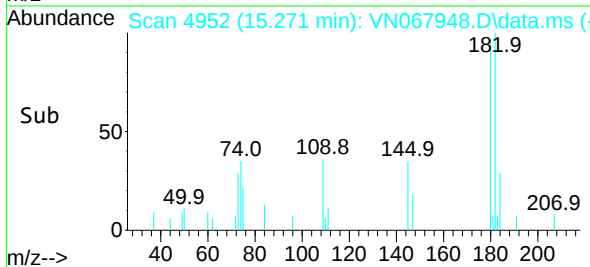
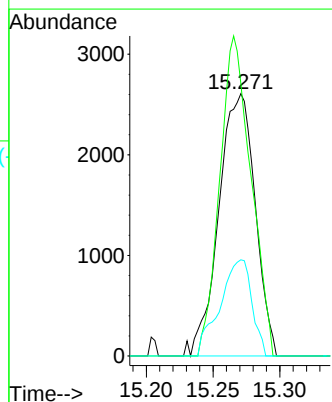
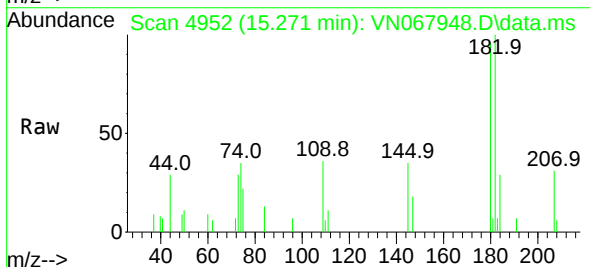
Instrument :
MSVOA_N
ClientSampled :

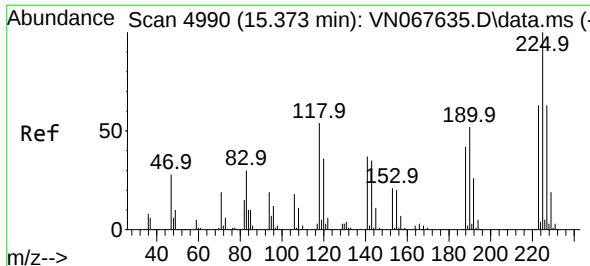
Tgt Ion: 75 Resp: 553
Ion Ratio Lower Upper
75 100
155 52.8 29.8 89.5
157 52.3 37.6 112.8



#93
1,2,4-Trichlorobenzene
Concen: 3.665 ug/l
RT: 15.271 min Scan# 4952
Delta R.T. 0.006 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

Tgt Ion: 180 Resp: 4940
Ion Ratio Lower Upper
180 100
182 104.6 47.5 142.5
145 32.2 17.2 51.6

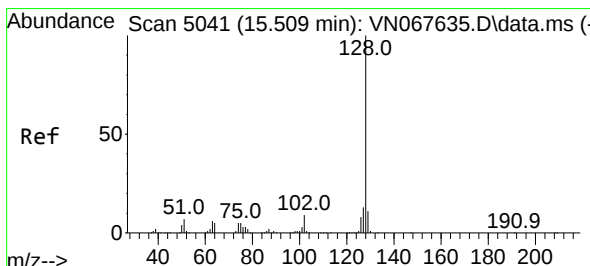
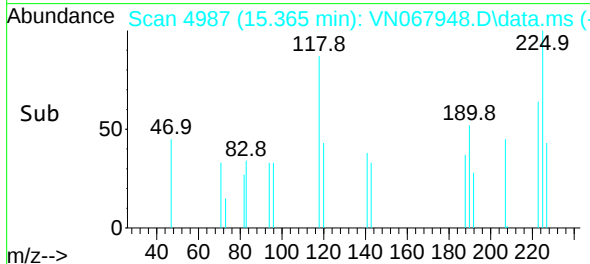
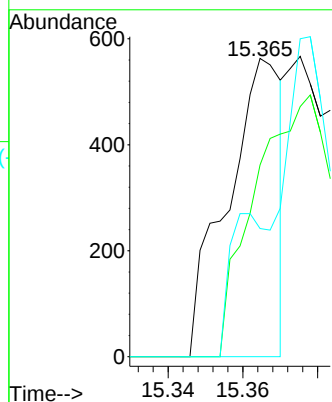
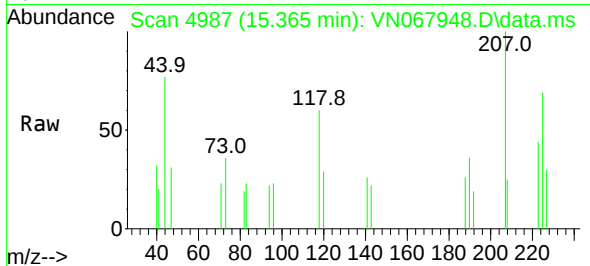




#94
Hexachlorobutadiene
Concen: 0.295 ug/l
RT: 15.365 min Scan# 4987
Delta R.T. -0.008 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

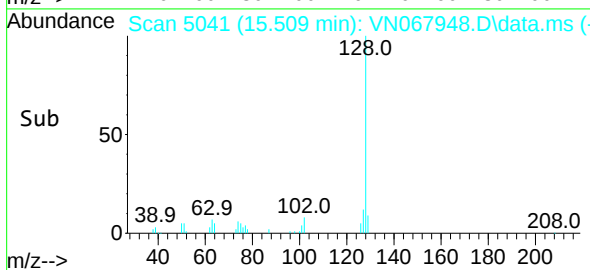
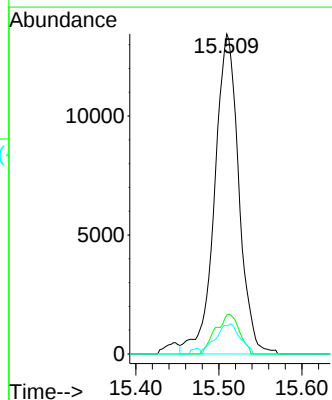
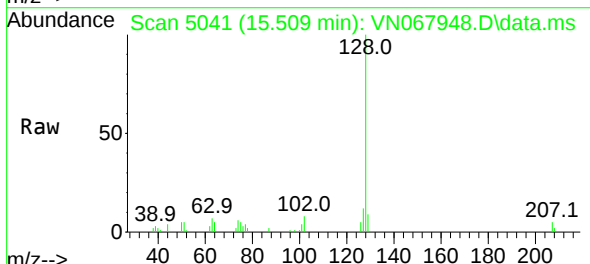
Instrument :
MSVOA_N
ClientSampled :

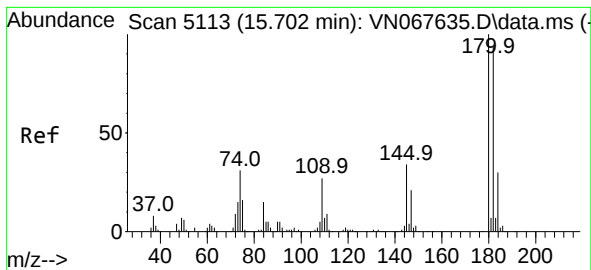
Tgt Ion:225 Resp: 562
Ion Ratio Lower Upper
225 100
223 0.0 31.4 94.0#
227 35.2 31.2 93.6



#95
Naphthalene
Concen: 4.856 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.000 min
Lab File: VN067948.D
Acq: 28 Jul 2021 12:57

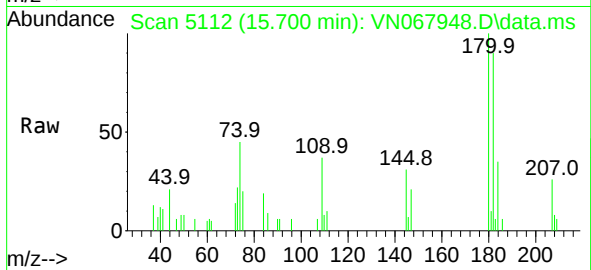
Tgt Ion:128 Resp: 27226
Ion Ratio Lower Upper
128 100
127 12.2 10.6 15.8
129 9.4 8.6 12.8





#96
 1,2,3-Trichlorobenzene
 Concen: 3.403 ug/l
 RT: 15.700 min Scan# 5112
 Delta R.T. -0.002 min
 Lab File: VN067948.D
 Acq: 28 Jul 2021 12:57

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:180 Resp: 3681
 Ion Ratio Lower Upper
 180 100
 182 158.2 47.8 143.3#
 145 23.4 18.2 54.6

