

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071621\
 Data File : VN067778.D
 Acq On : 16 Jul 2021 17:22
 Operator : JC/MD
 Sample : IBLK
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 17 04:59:53 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)

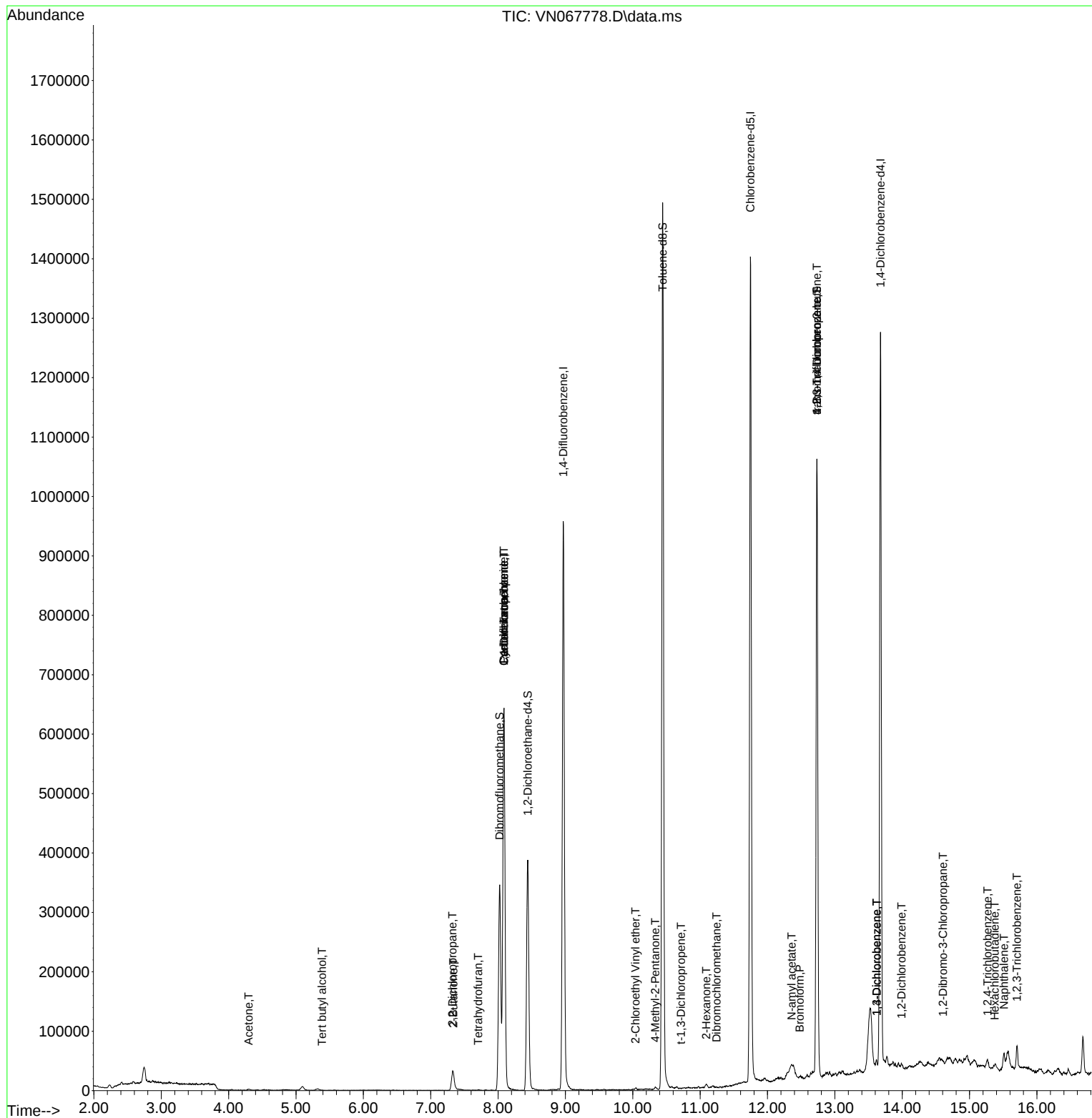
Internal Standards						
1) Pentafluorobenzene	8.088	168	472524	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	860674	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	812505	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	322544	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	329601	46.154	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	92.300%		
35) Dibromofluoromethane	8.024	113	251216	48.311	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	96.620%		
50) Toluene-d8	10.443	98	1055566	48.496	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	97.000%		
62) 4-Bromofluorobenzene	12.734	95	363228	47.241	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	94.480%		
Target Compounds						
					Qvalue	
5) Bromomethane	2.829	94	210	Below Cal	#	56
6) Chloroethane	3.011	64	94	Below Cal	#	44
7) Trichlorofluoromethane	3.365	101	211	Below Cal	#	23
11) Tert butyl alcohol	5.388	59	232	0.226 ug/l	#	71
13) Acrolein	4.049	56	525	Below Cal		86
16) Acetone	4.296	43	1176	0.523 ug/l	#	77
25) 2-Butanone	7.335	43	1437	0.385 ug/l	#	51
26) 2,2-Dichloropropane	7.324	77	1724	0.202 ug/l	#	57
29) Tetrahydrofuran	7.705	42	674	0.275 ug/l	#	53
31) Cyclohexane	8.086	56	12362	1.235 ug/l	#	35
36) 1,1-Dichloropropene	8.086	75	42061	5.261 ug/l	#	52
38) Carbon Tetrachloride	8.086	117	51446	6.524 ug/l	#	17
51) 4-Methyl-2-Pentanone	10.336	43	2248	0.269 ug/l	#	85
53) t-1,3-Dichloropropene	10.717	75	217	1.765 ug/l	#	43
58) 2-Chloroethyl Vinyl ether	10.041	63	1164	17.453 ug/l	#	81
59) 2-Hexanone	11.090	43	4283	0.733 ug/l		89
60) Dibromochloromethane	11.242	129	142	2.375 ug/l	#	11
71) Bromoform	12.479	173	175	3.207 ug/l	#	29
74) N-amyl acetate	12.358	43	2321	0.246 ug/l	#	49
76) 1,2,3-Trichloropropane	12.734	75	200135	30.384 ug/l	#	100
81) trans-1,4-Dichloro-2-b...	12.734	75	200135	97.960 ug/l	#	6
87) 1,3-Dichlorobenzene	13.621	146	2637	0.247 ug/l		95
88) 1,4-Dichlorobenzene	13.621	146	2637	0.241 ug/l		96
91) 1,2-Dichlorobenzene	13.989	146	2575	0.250 ug/l		91
92) 1,2-Dibromo-3-Chloropr...	14.606	75	649	0.495 ug/l		80
93) 1,2,4-Trichlorobenzene	15.268	180	3821	3.347 ug/l		91
94) Hexachlorobutadiene	15.373	225	749	0.346 ug/l		82
95) Naphthalene	15.509	128	24663	4.480 ug/l		96
96) 1,2,3-Trichlorobenzene	15.703	180	4931	3.539 ug/l		66

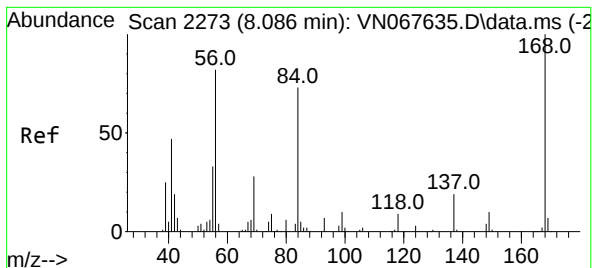
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.088 min Scan# 2274

Delta R.T. 0.002 min

Lab File: VN067778.D

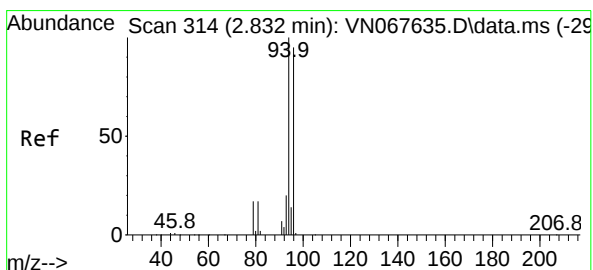
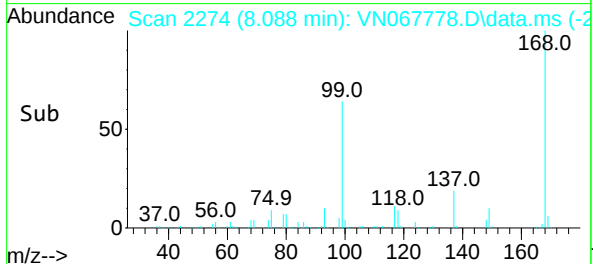
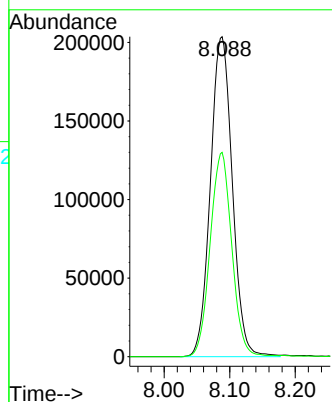
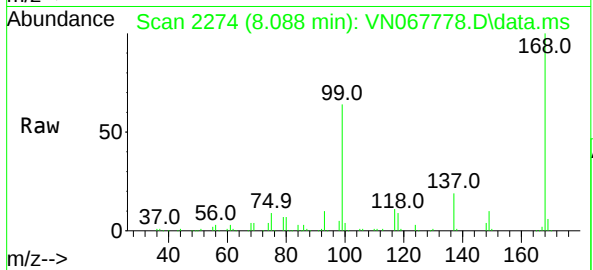
Acq: 16 Jul 2021 17:22

Tgt Ion:168 Resp: 472524

Ion Ratio Lower Upper

168 100

99 63.9 62.9 94.3



#5

Bromomethane

Concen: Below Cal

RT: 2.829 min Scan# 313

Delta R.T. -0.003 min

Lab File: VN067778.D

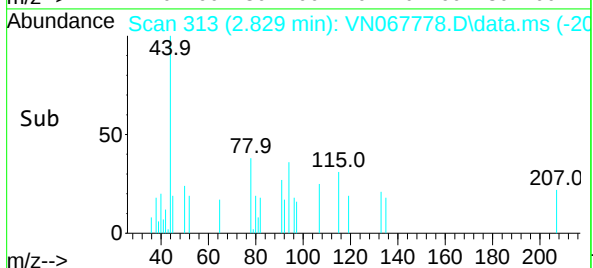
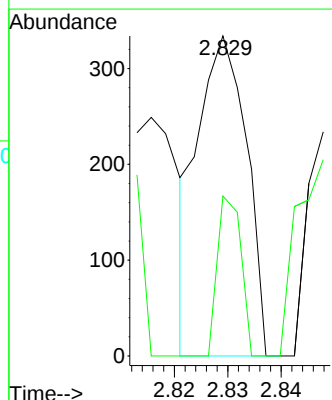
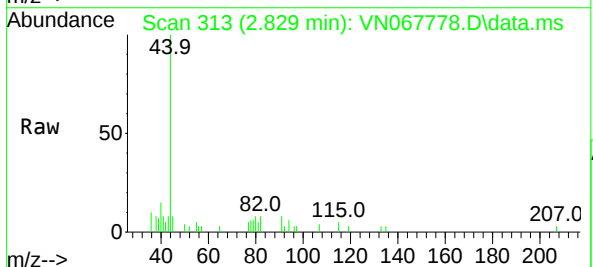
Acq: 16 Jul 2021 17:22

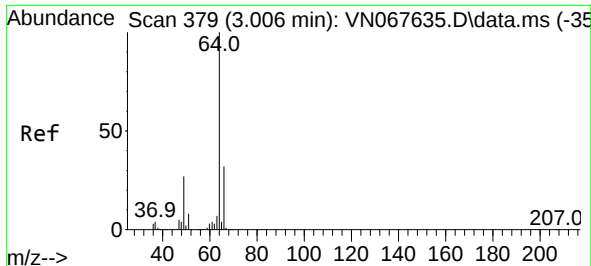
Tgt Ion: 94 Resp: 210

Ion Ratio Lower Upper

94 100

96 50.0 73.7 110.5#

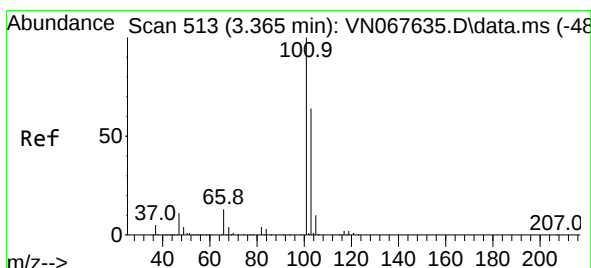
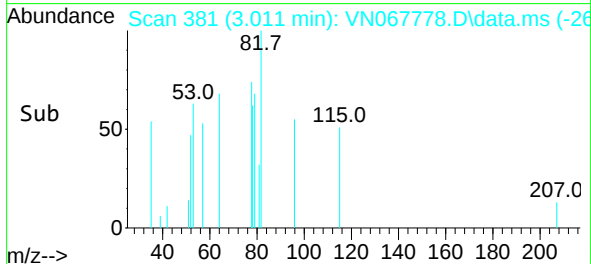
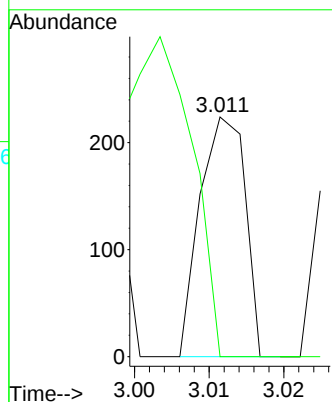
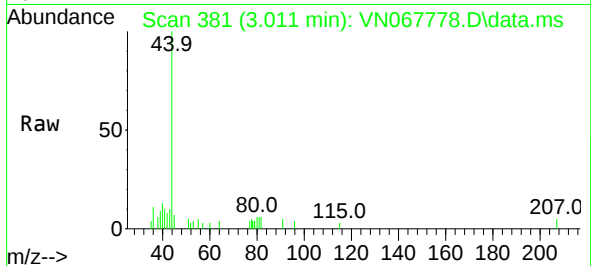




#6
Chloroethane
Concen: Below Cal
RT: 3.011 min Scan# 381
Delta R.T. 0.005 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

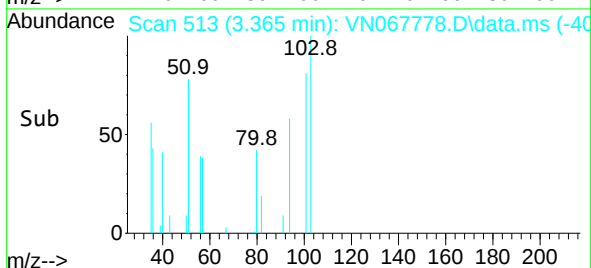
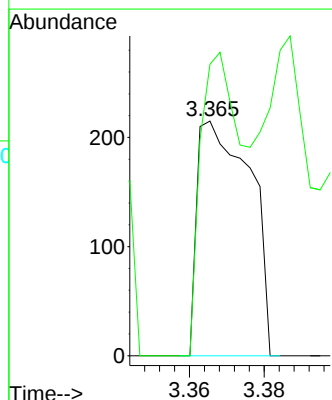
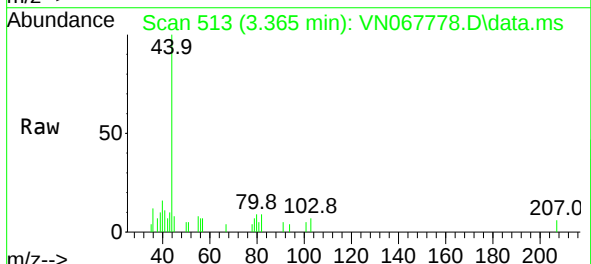
Instrument :
MSVOA_N
ClientSampled :

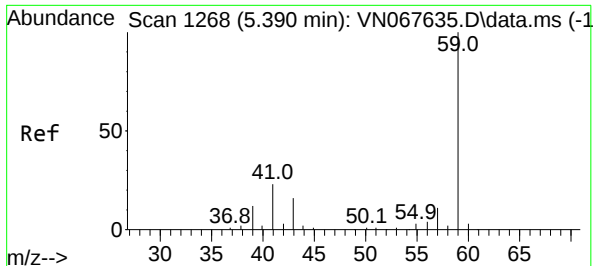
Tgt Ion: 64 Resp: 94
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#



#7
Trichlorofluoromethane
Concen: Below Cal
RT: 3.365 min Scan# 513
Delta R.T. 0.000 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

Tgt Ion: 101 Resp: 211
Ion Ratio Lower Upper
101 100
103 124.2 51.2 76.8#



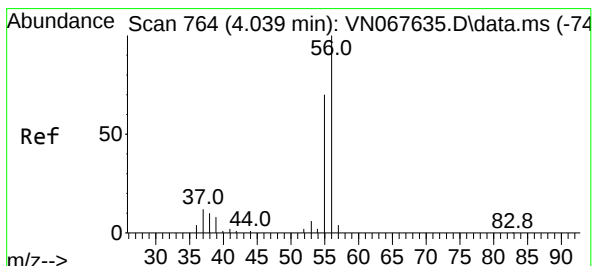
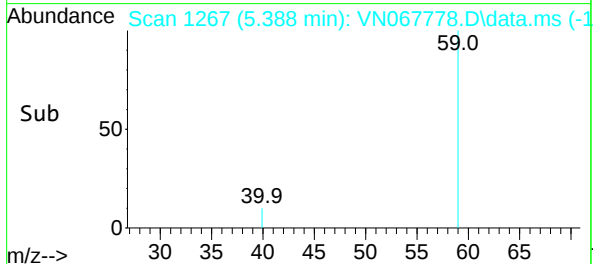
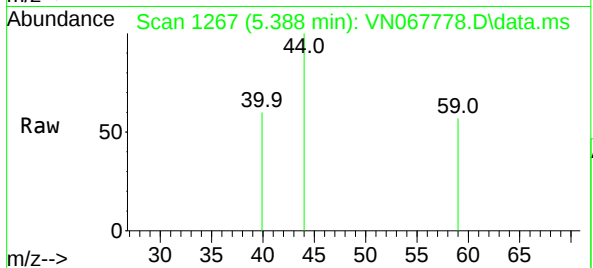


#11

Tert butyl alcohol
Concen: 0.226 ug/l
RT: 5.388 min Scan# 1267
Delta R.T. -0.002 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

Instrument :
MSVOA_N
ClientSampled :

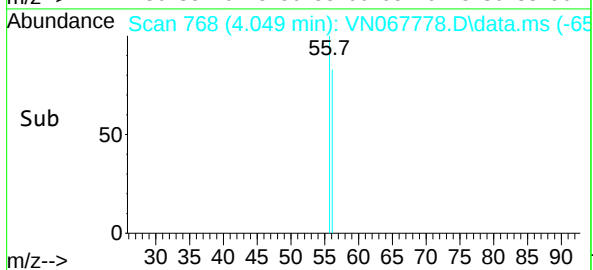
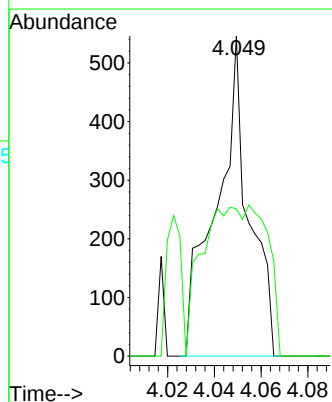
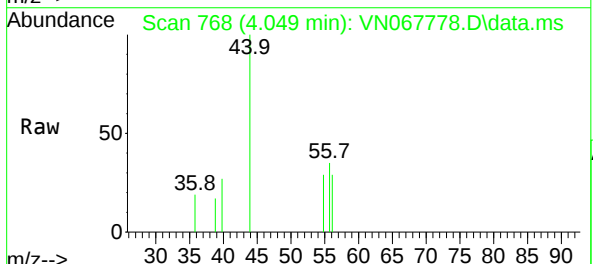
Tgt Ion: 59 Resp: 232
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

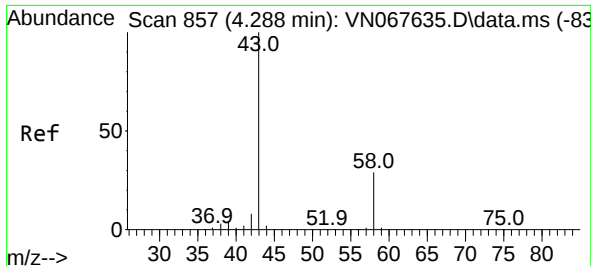


#13

Acrolein
Concen: Below Cal
RT: 4.049 min Scan# 768
Delta R.T. 0.010 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

Tgt Ion: 56 Resp: 525
Ion Ratio Lower Upper
56 100
55 60.0 57.4 86.0

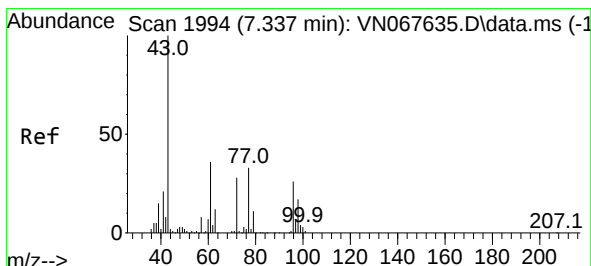
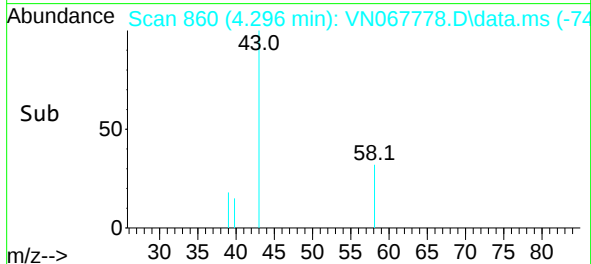
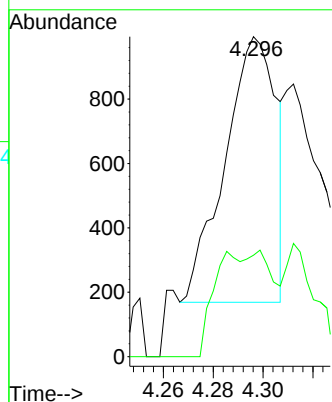
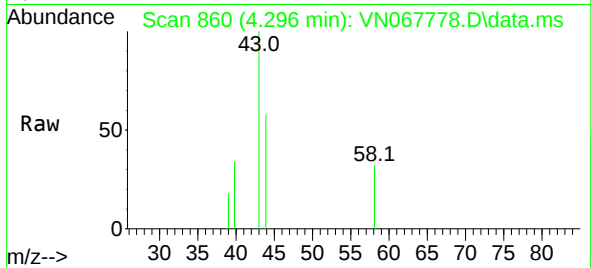




#16
Acetone
Concen: 0.523 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.008 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

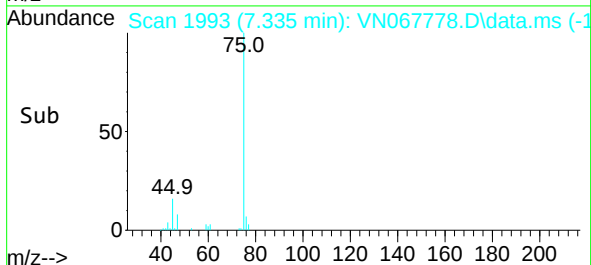
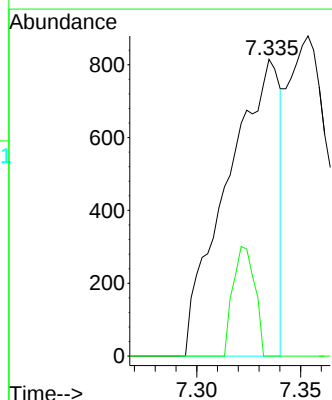
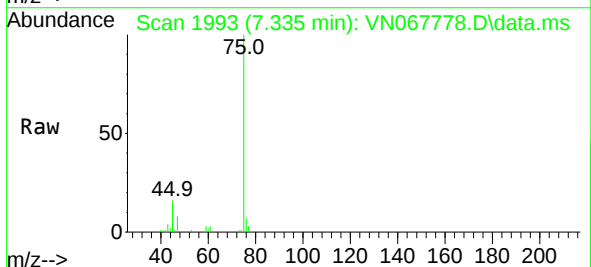
Instrument :
MSVOA_N
ClientSampled :

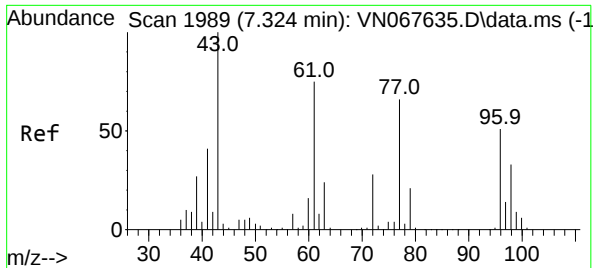
Tgt Ion: 43 Resp: 1176
Ion Ratio Lower Upper
43 100
58 38.2 21.2 31.8#



#25
2-Butanone
Concen: 0.385 ug/l
RT: 7.335 min Scan# 1993
Delta R.T. -0.002 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

Tgt Ion: 43 Resp: 1437
Ion Ratio Lower Upper
43 100
72 0.0 19.7 29.5#

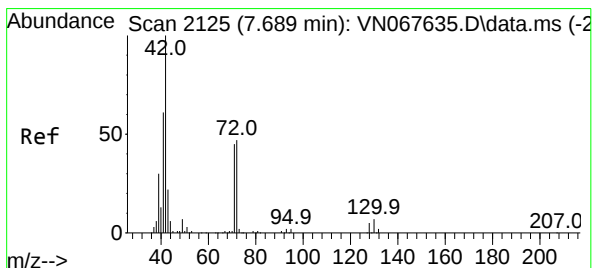
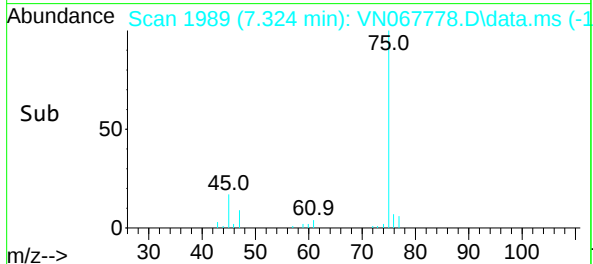
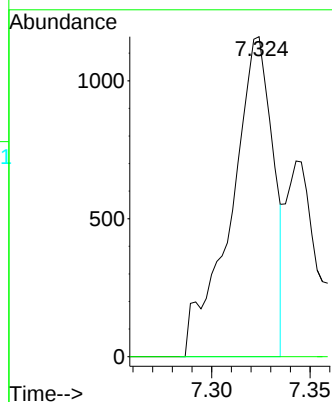
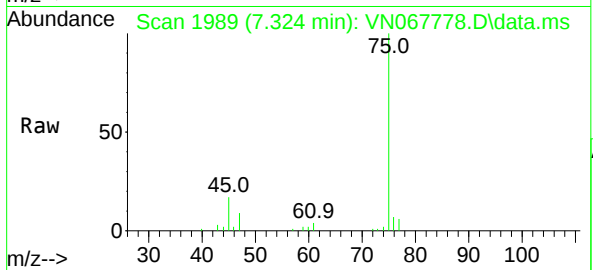




#26
2,2-Dichloropropane
Concen: 0.202 ug/l
RT: 7.324 min Scan# 1989
Delta R.T. 0.000 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

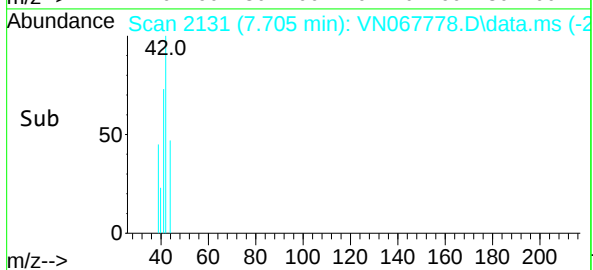
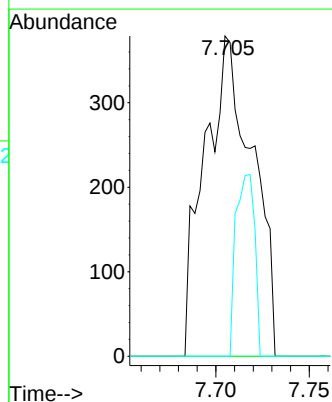
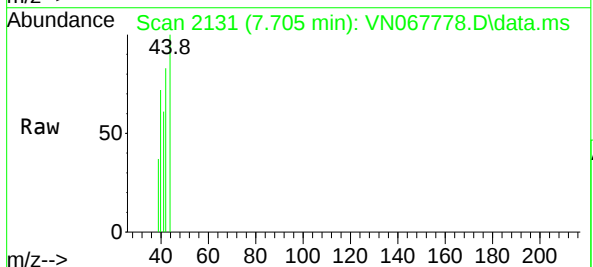
Instrument :
MSVOA_N
ClientSampled :

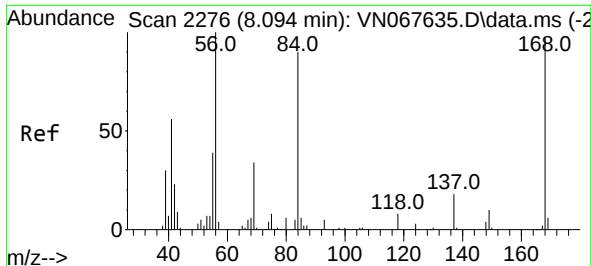
Tgt Ion: 77 Resp: 1724
Ion Ratio Lower Upper
77 100
97 0.0 9.8 29.3#



#29
Tetrahydrofuran
Concen: 0.275 ug/l
RT: 7.705 min Scan# 2131
Delta R.T. 0.016 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

Tgt Ion: 42 Resp: 674
Ion Ratio Lower Upper
42 100
72 0.0 32.8 49.2#
71 22.3 31.2 46.8#

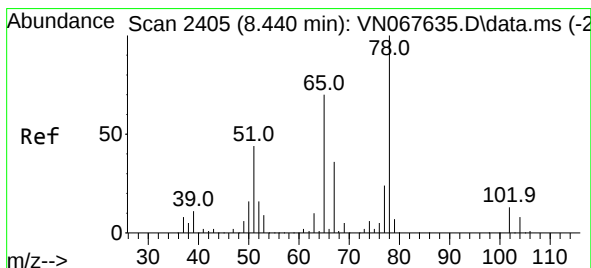
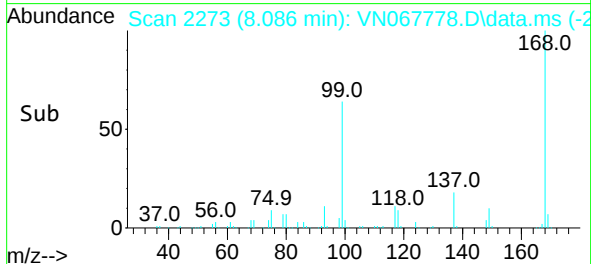
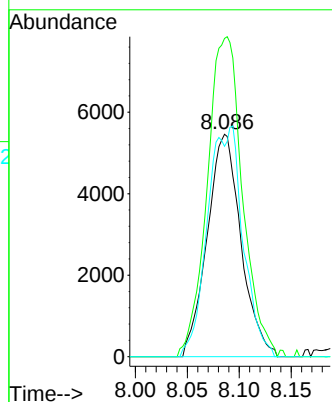
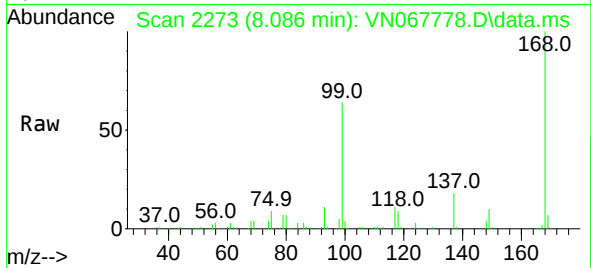




#31
Cyclohexane
Concen: 1.235 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.008 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

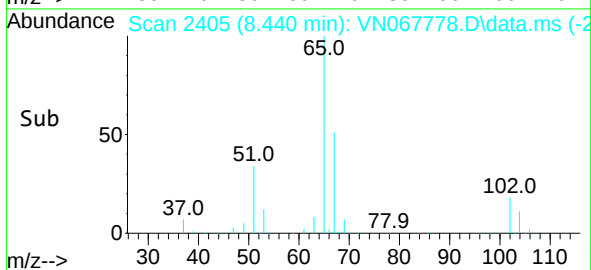
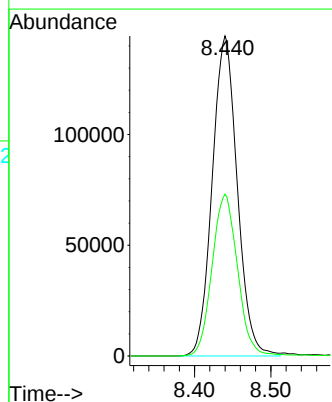
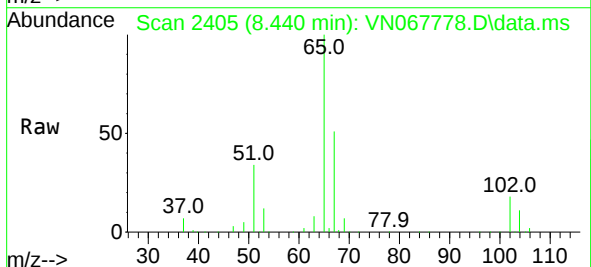
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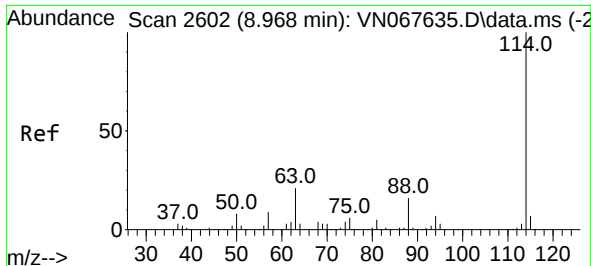
Tgt Ion: 56 Resp: 12362
Ion Ratio Lower Upper
56 100
69 140.1 27.3 40.9#
84 94.6 64.9 97.3



#33
1,2-Dichloroethane-d4
Concen: 46.154 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

Tgt Ion: 65 Resp: 329601
Ion Ratio Lower Upper
65 100
67 51.4 0.0 98.6

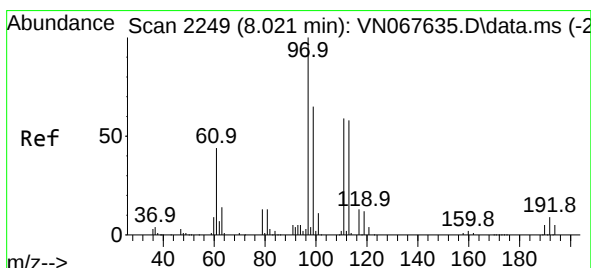
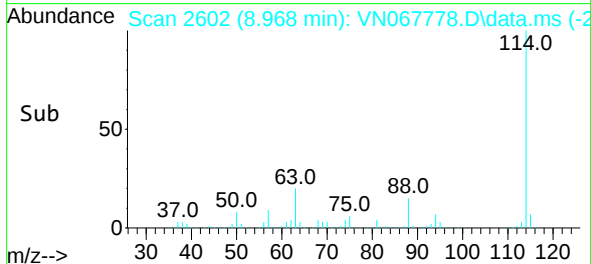
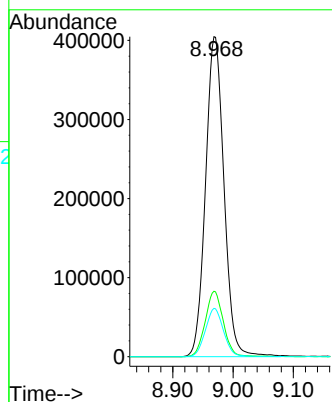
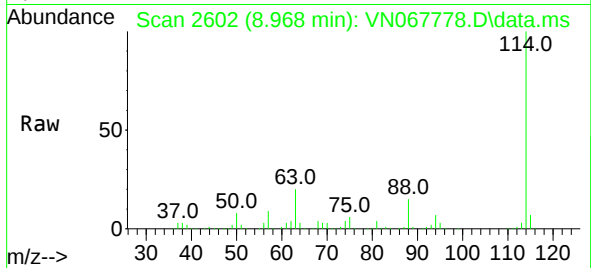




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. 0.000 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

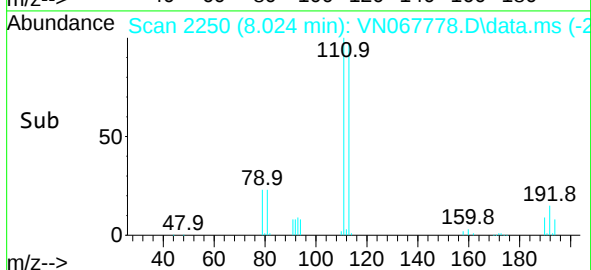
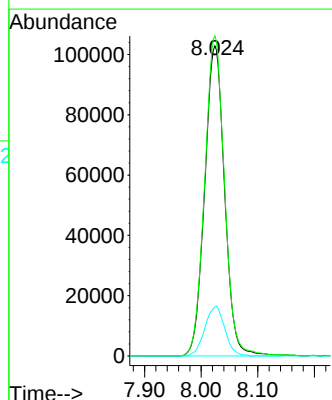
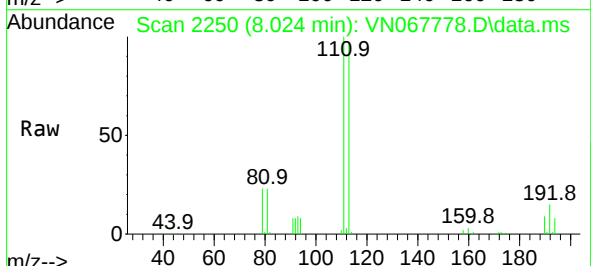
Instrument :
MSVOA_N
ClientSampled :

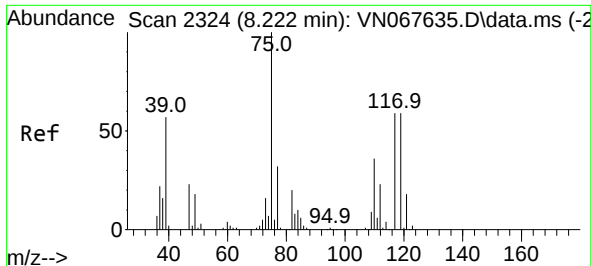
Tgt Ion:114 Resp: 860674
Ion Ratio Lower Upper
114 100
63 20.5 0.0 49.0
88 15.1 0.0 36.6



#35
Dibromofluoromethane
Concen: 48.311 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

Tgt Ion:113 Resp: 251216
Ion Ratio Lower Upper
113 100
111 102.9 83.8 125.8
192 16.0 13.4 20.0

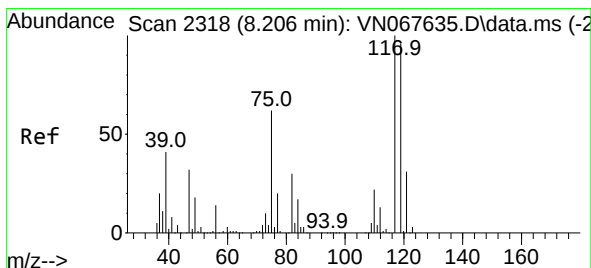
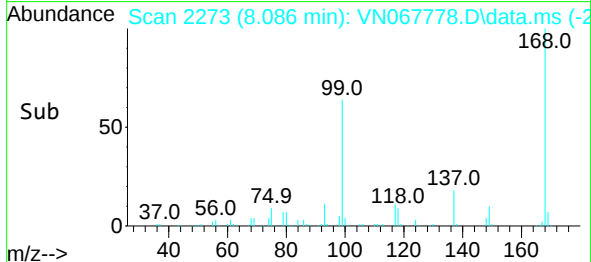
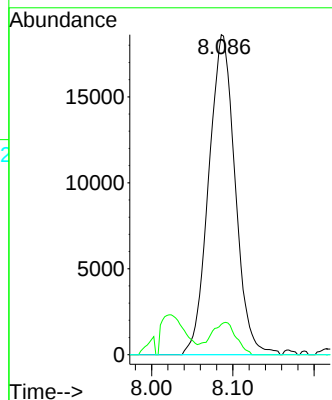
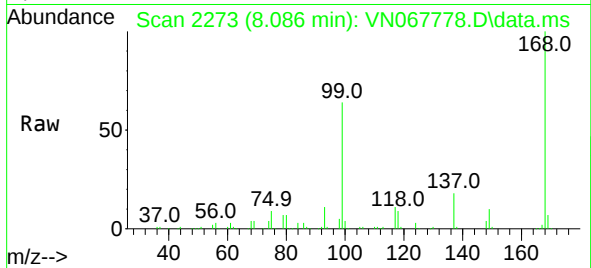




#36
1,1-Dichloropropene
Concen: 5.261 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.136 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

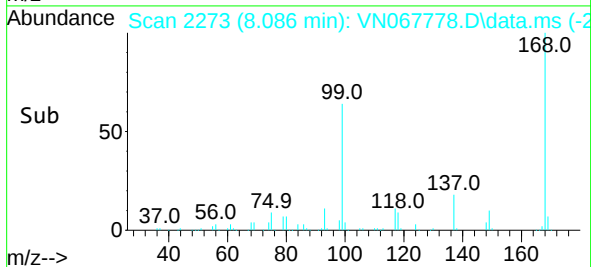
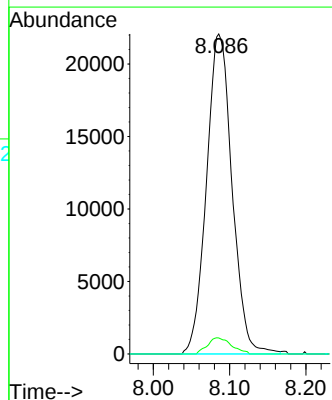
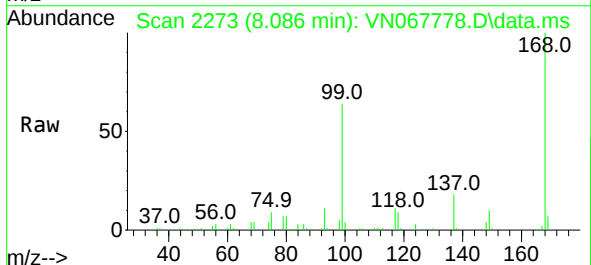
Instrument :
MSVOA_N
ClientSampled :

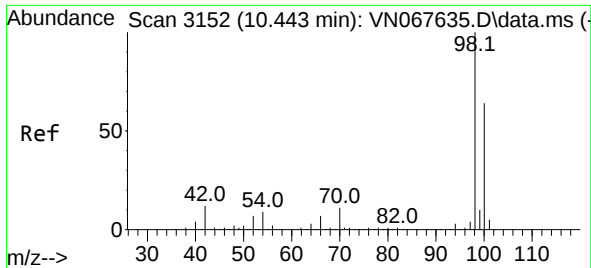
Tgt Ion: 75 Resp: 42061
Ion Ratio Lower Upper
75 100
110 9.2 15.7 47.0#
77 0.0 24.6 37.0#



#38
Carbon Tetrachloride
Concen: 6.524 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.120 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

Tgt Ion: 117 Resp: 51446
Ion Ratio Lower Upper
117 100
119 5.0 75.4 113.2#
121 0.0 23.5 35.3#

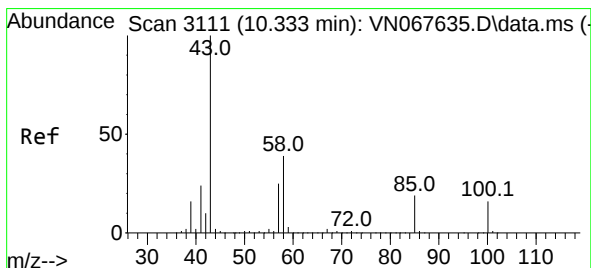
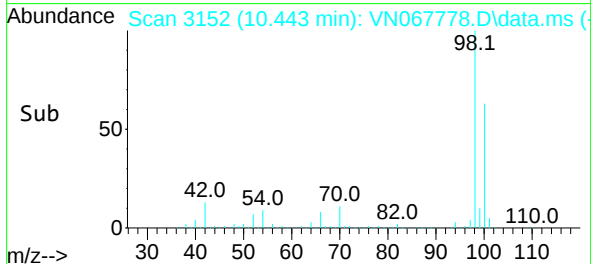
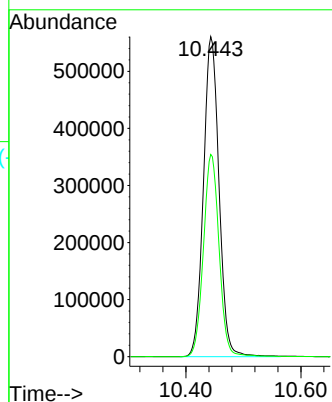
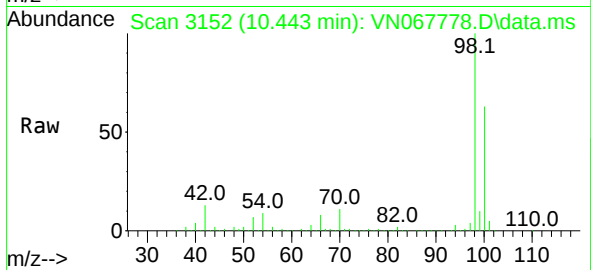




#50
Toluene-d8
Concen: 48.496 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

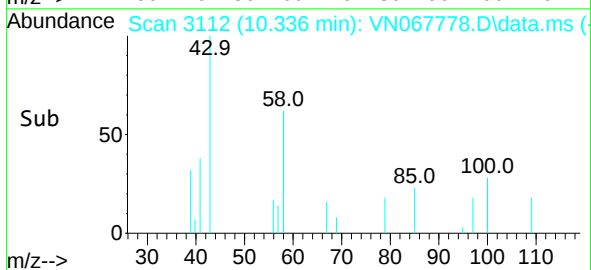
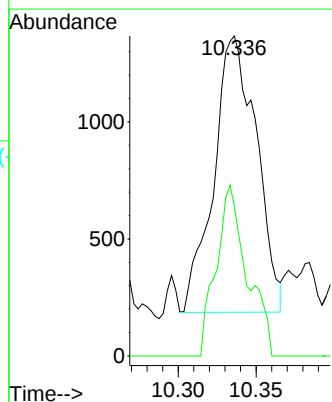
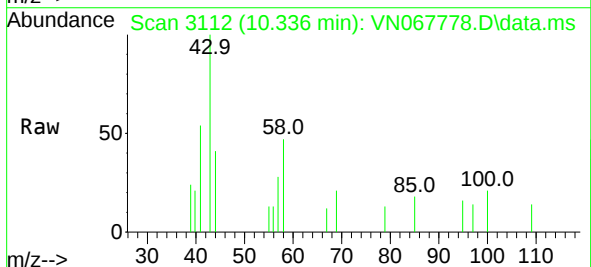
Instrument :
MSVOA_N
ClientSampled :

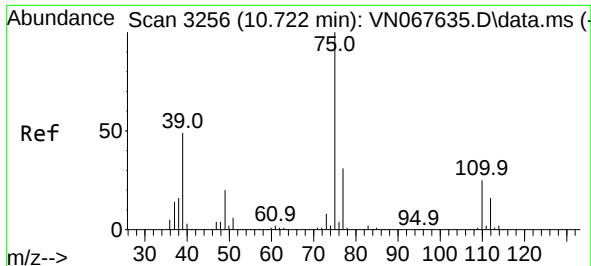
Tgt Ion: 98 Resp: 1055566
Ion Ratio Lower Upper
98 100
100 63.4 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 0.269 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.003 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

Tgt Ion: 43 Resp: 2248
Ion Ratio Lower Upper
43 100
58 44.7 28.6 43.0#

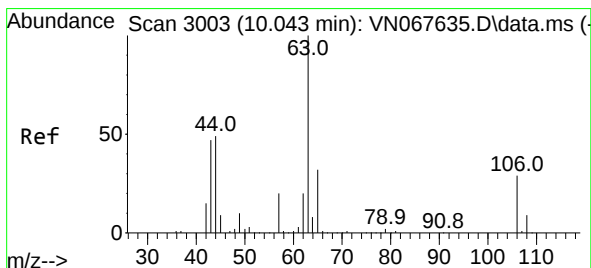
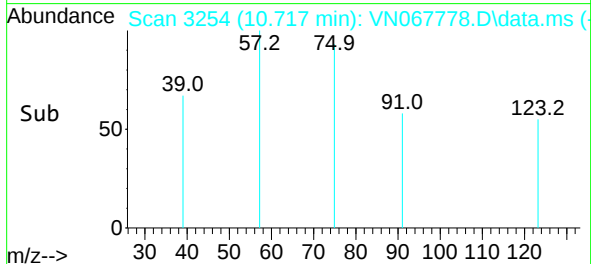
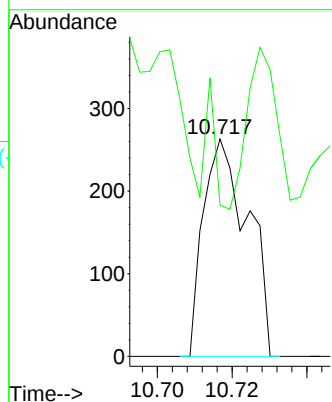
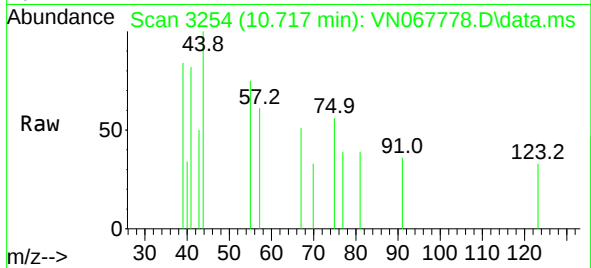




#53
t-1,3-Dichloropropene
Concen: 1.765 ug/l
RT: 10.717 min Scan# 3254
Delta R.T. -0.005 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

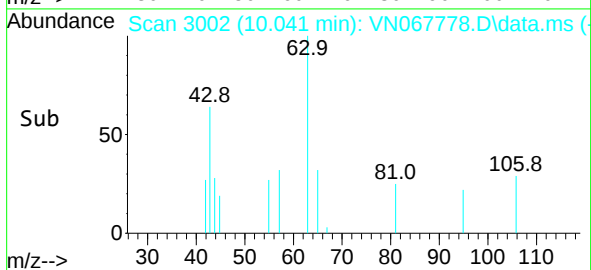
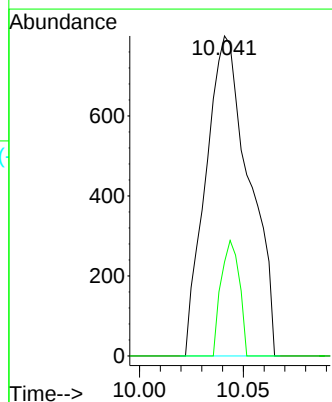
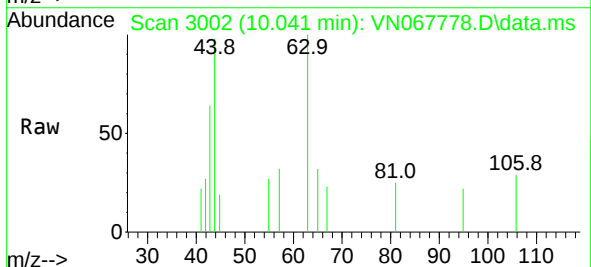
Instrument :
MSVOA_N
ClientSampled :

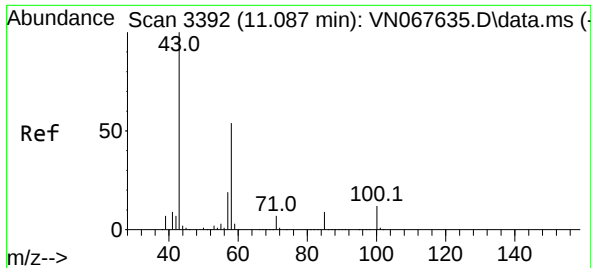
Tgt Ion: 75 Resp: 217
Ion Ratio Lower Upper
75 100
77 0.0 25.1 37.7#



#58
2-Chloroethyl Vinyl ether
Concen: 17.453 ug/l
RT: 10.041 min Scan# 3002
Delta R.T. -0.002 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

Tgt Ion: 63 Resp: 1164
Ion Ratio Lower Upper
63 100
106 15.2 19.8 29.8#

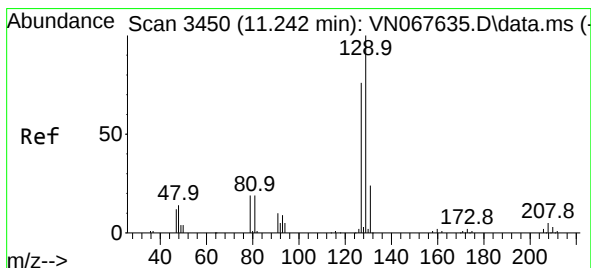
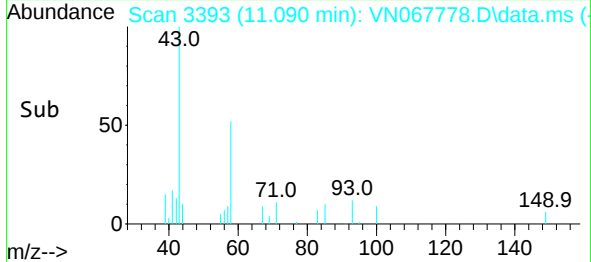
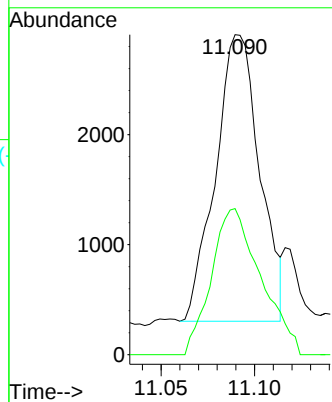
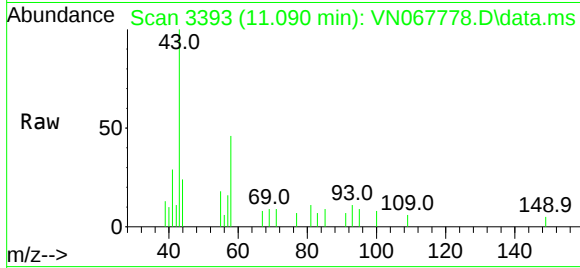




#59
2-Hexanone
Concen: 0.733 ug/l
RT: 11.090 min Scan# 3393
Delta R.T. 0.003 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

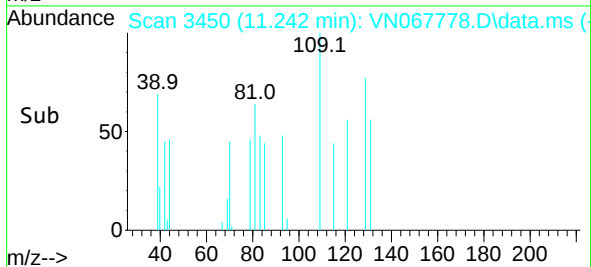
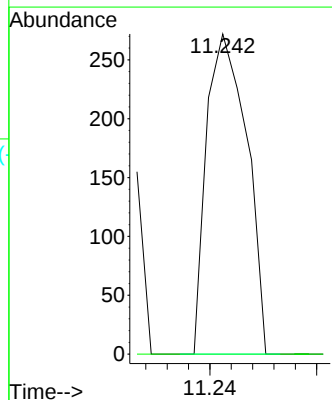
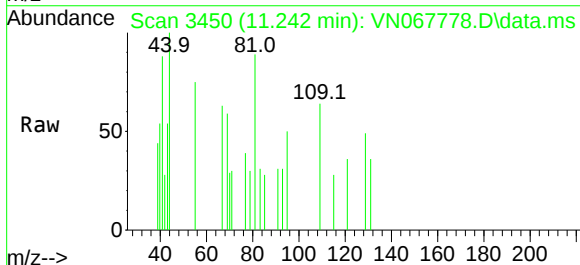
Instrument :
MSVOA_N
ClientSampled :

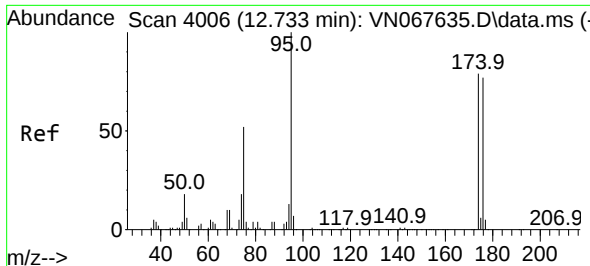
Tgt Ion: 43 Resp: 4283
Ion Ratio Lower Upper
43 100
58 56.7 24.7 74.1



#60
Dibromochloromethane
Concen: 2.375 ug/l
RT: 11.242 min Scan# 3450
Delta R.T. 0.000 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

Tgt Ion: 129 Resp: 142
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#

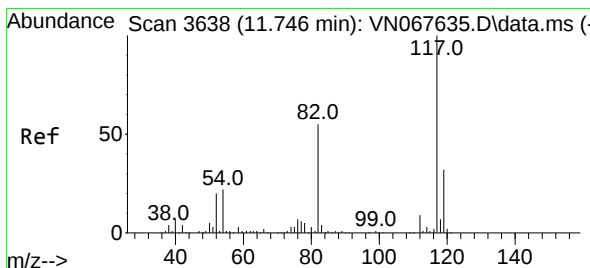
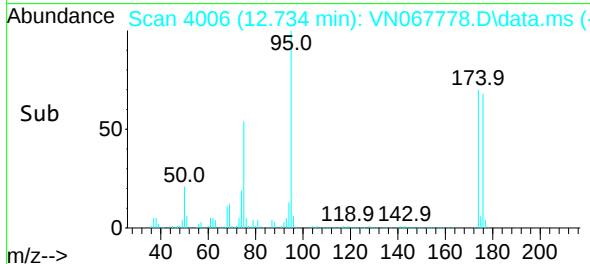
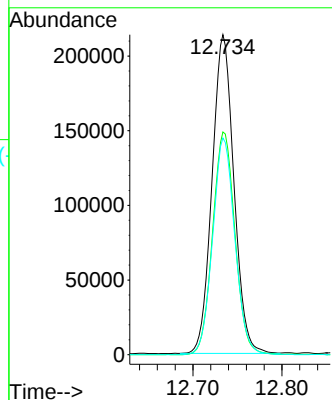
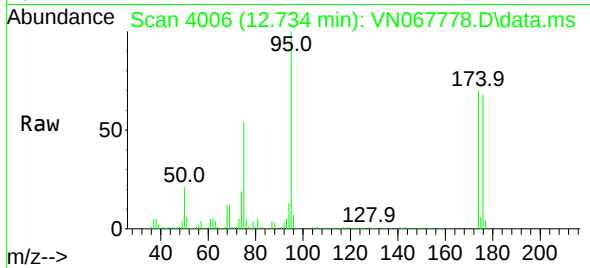




#62
4-Bromofluorobenzene
Concen: 47.241 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.001 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

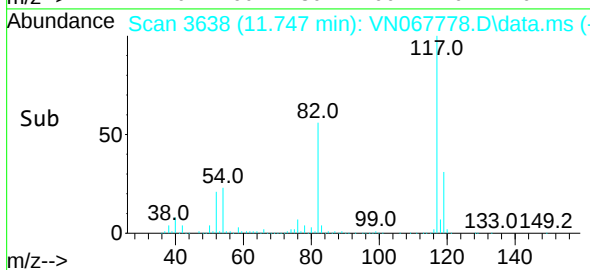
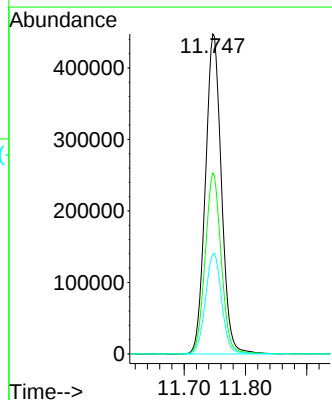
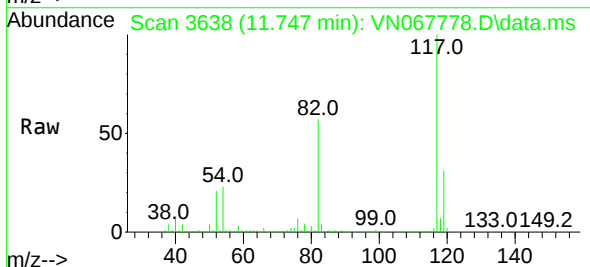
Instrument :
MSVOA_N
ClientSampleId :

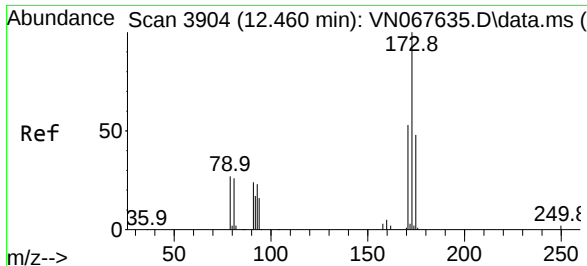
Tgt Ion: 95 Resp: 363228
Ion Ratio Lower Upper
95 100
174 71.6 0.0 122.0
176 69.2 0.0 117.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

Tgt Ion: 117 Resp: 812505
Ion Ratio Lower Upper
117 100
82 56.5 53.1 79.7
119 31.2 25.5 38.3

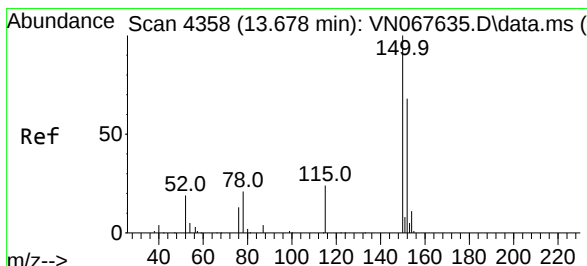
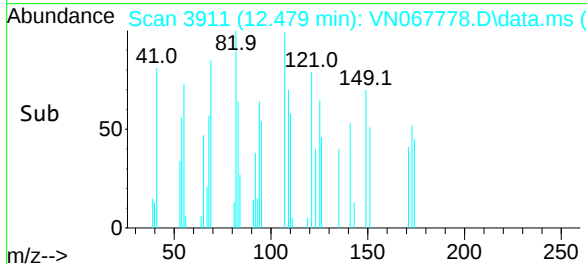
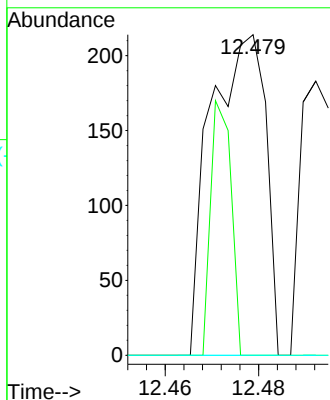
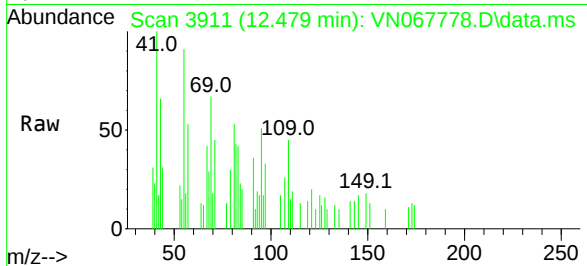




#71
Bromoform
Concen: 3.207 ug/l
RT: 12.479 min Scan# 3911
Delta R.T. 0.019 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

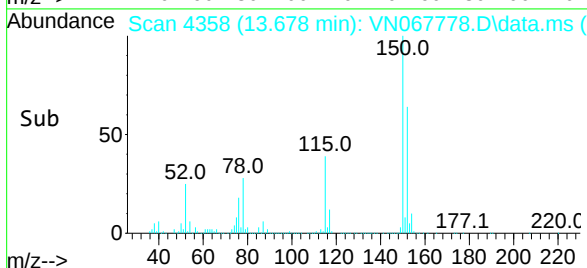
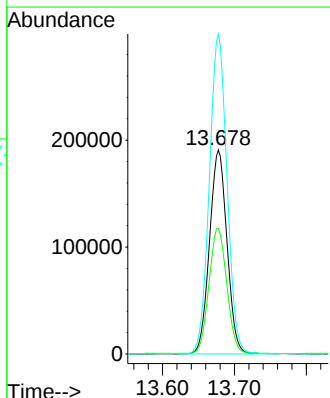
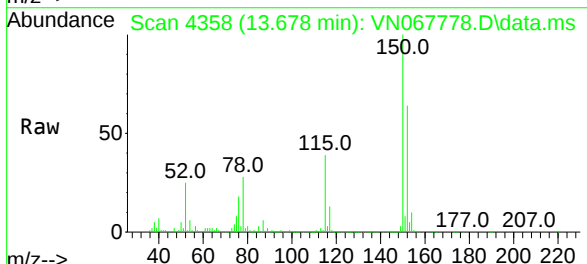
Instrument :
MSVOA_N
ClientSampled :

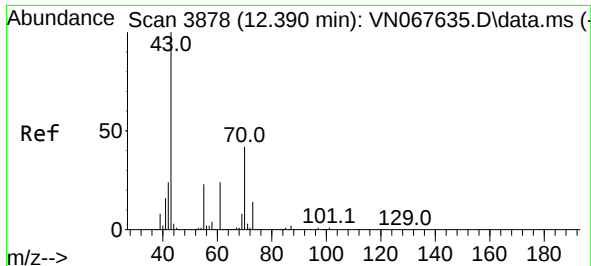
Tgt Ion:173 Resp: 175
Ion Ratio Lower Upper
173 100
175 0.0 23.9 71.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.000 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

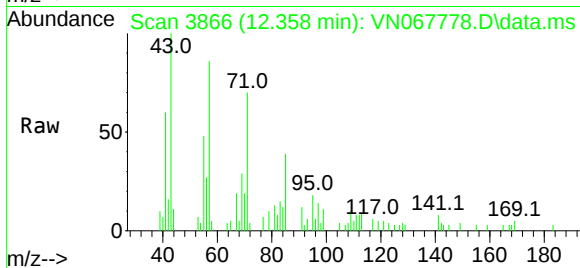
Tgt Ion:152 Resp: 322544
Ion Ratio Lower Upper
152 100
115 62.0 36.1 108.5
150 156.9 0.0 351.8





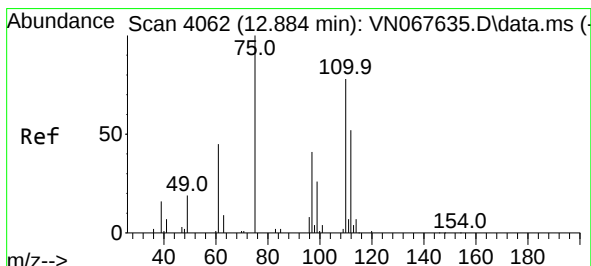
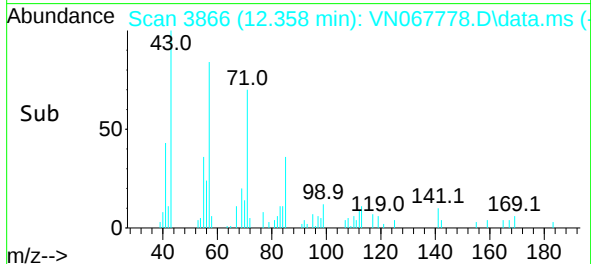
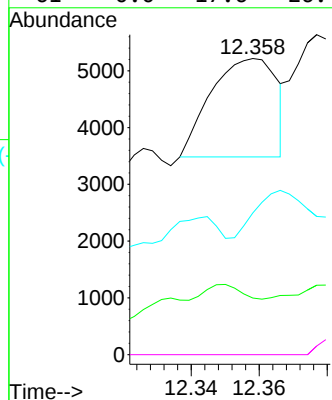
#74
N-amy1 acetate
Concen: 0.246 ug/l
RT: 12.358 min Scan# 3866
Delta R.T. -0.032 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 43 Resp: 2321

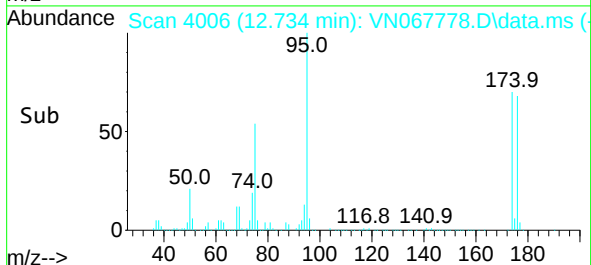
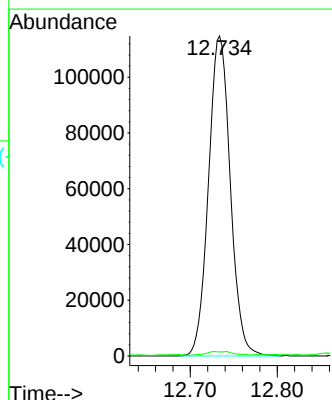
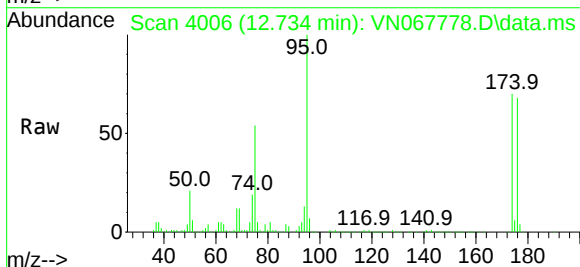
Ion	Ratio	Lower	Upper
43	100		
70	0.0	29.4	44.2#
55	38.4	17.0	25.4#
61	0.0	17.6	26.4#

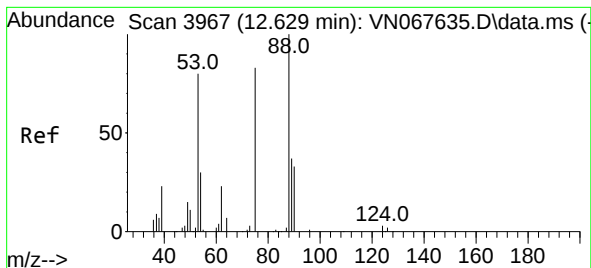


#76
1,2,3-Trichloropropane
Concen: 30.384 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.150 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

Tgt Ion: 75 Resp: 200135

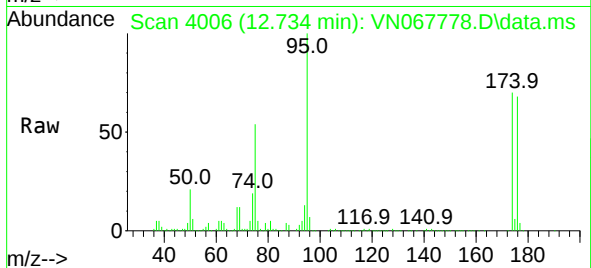
Ion	Ratio	Lower	Upper
75	100		
77	0.8	0.0	0.0#



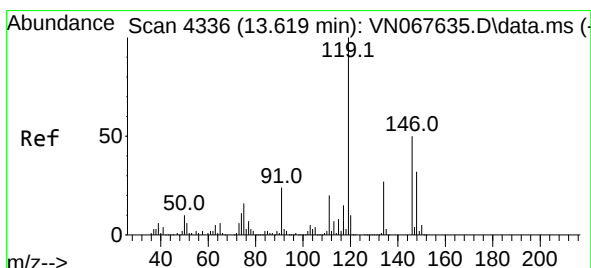
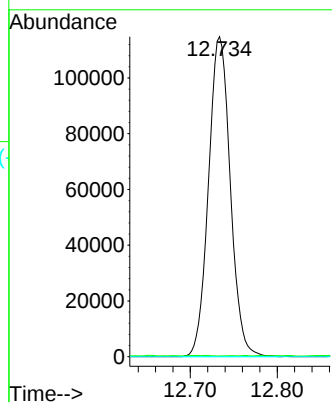
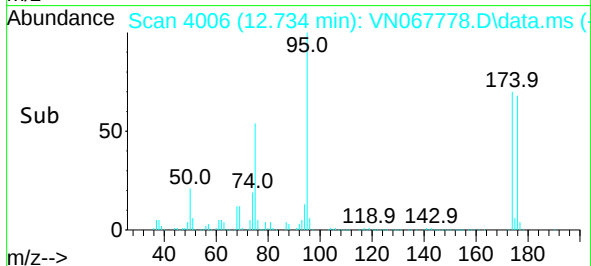


#81
trans-1,4-Dichloro-2-butene
Concen: 97.960 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

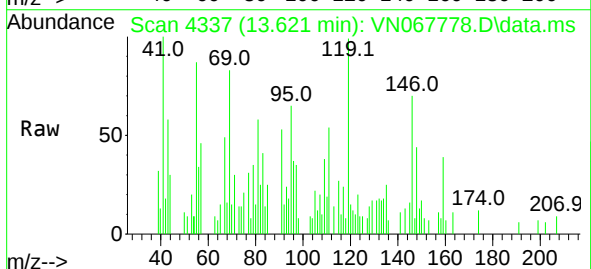
Instrument :
MSVOA_N
ClientSampled :



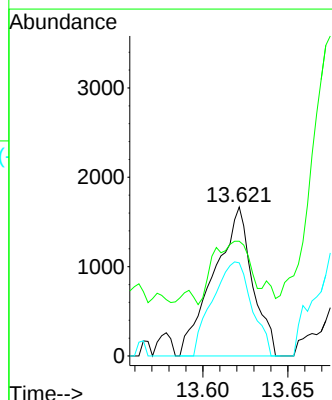
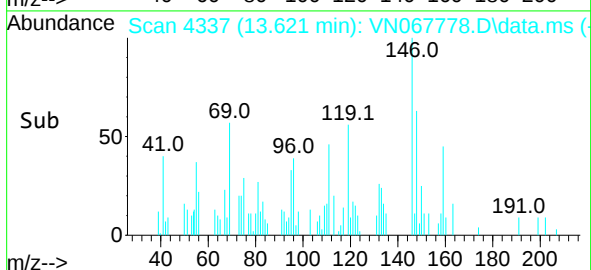
Tgt Ion: 75 Resp: 200135
Ion Ratio Lower Upper
75 100
53 0.0 87.6 131.4#
89 0.0 37.8 56.8#

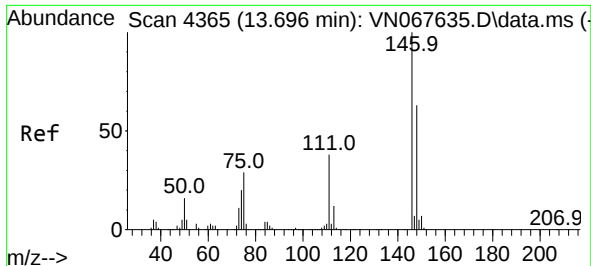


#87
1,3-Dichlorobenzene
Concen: 0.247 ug/l
RT: 13.621 min Scan# 4337
Delta R.T. 0.002 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22



Tgt Ion:146 Resp: 2637
Ion Ratio Lower Upper
146 100
111 41.1 24.3 72.8
148 63.9 32.0 96.0

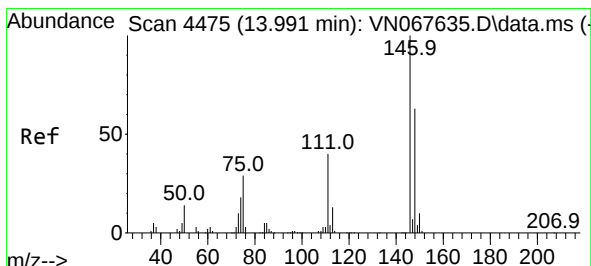
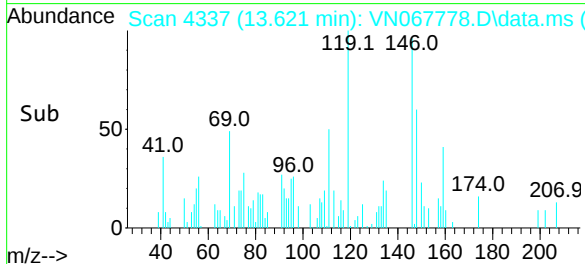
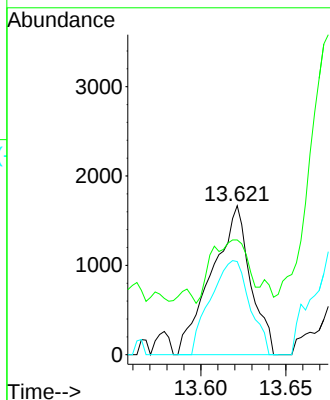
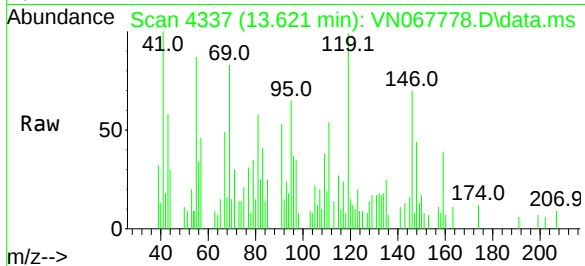




#88
1,4-Dichlorobenzene
Concen: 0.241 ug/l
RT: 13.621 min Scan# 4337
Delta R.T. -0.075 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

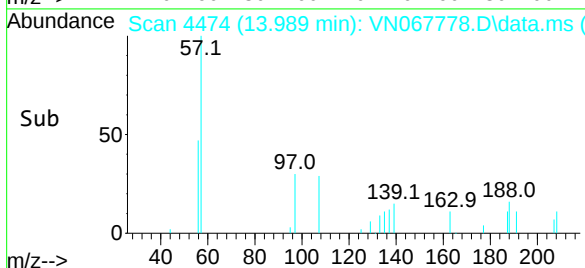
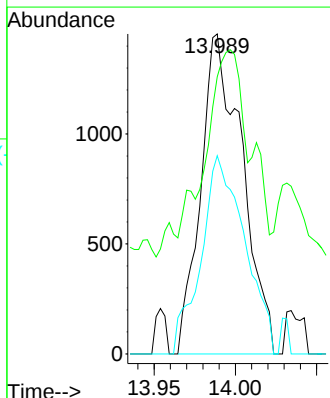
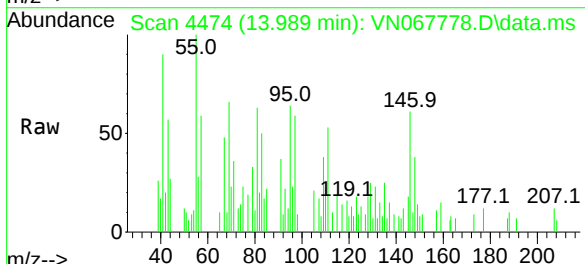
Instrument :
MSVOA_N
ClientSampled :

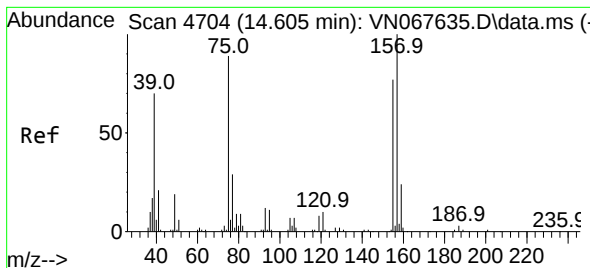
Tgt Ion:146 Resp: 2637
Ion Ratio Lower Upper
146 100
111 41.1 23.4 70.2
148 63.9 31.8 95.3



#91
1,2-Dichlorobenzene
Concen: 0.250 ug/l
RT: 13.989 min Scan# 4474
Delta R.T. -0.002 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

Tgt Ion:146 Resp: 2575
Ion Ratio Lower Upper
146 100
111 60.9 24.9 74.6
148 65.3 31.6 95.0

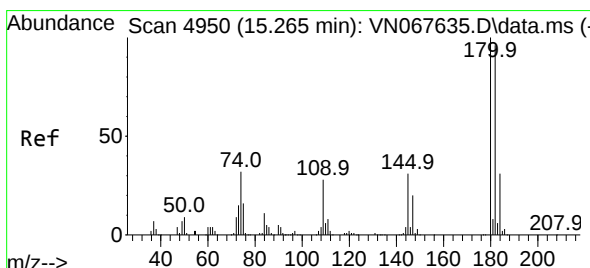
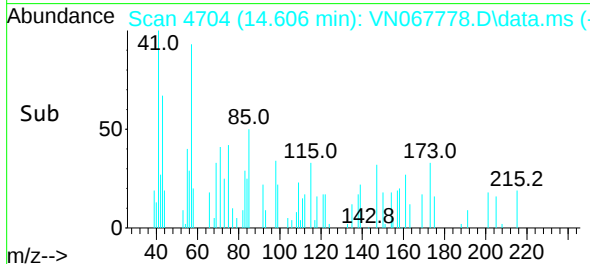
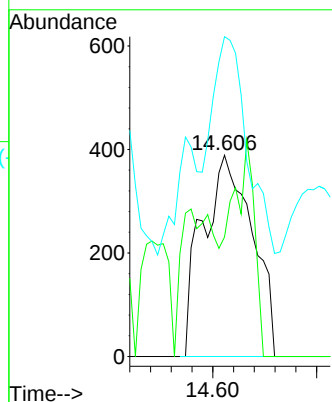
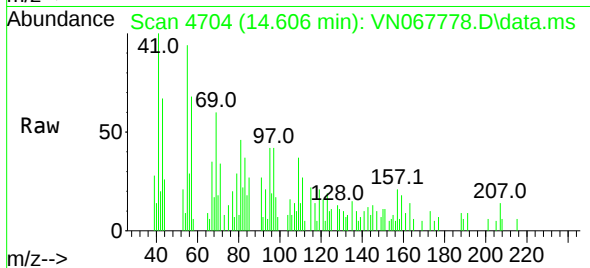




#92
1,2-Dibromo-3-Chloropropane
Concen: 0.495 ug/l
RT: 14.606 min Scan# 4704
Delta R.T. 0.001 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

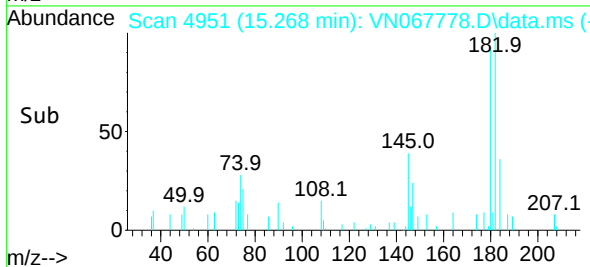
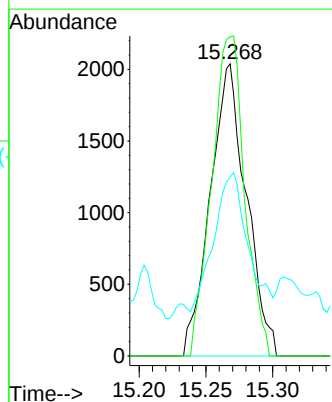
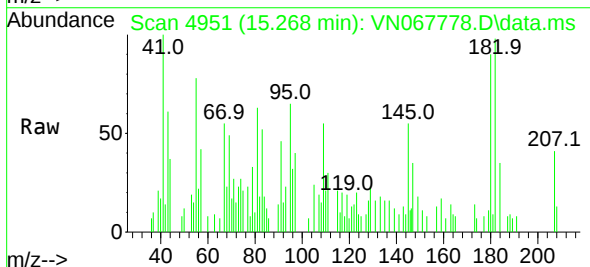
Instrument :
MSVOA_N
ClientSampleId :

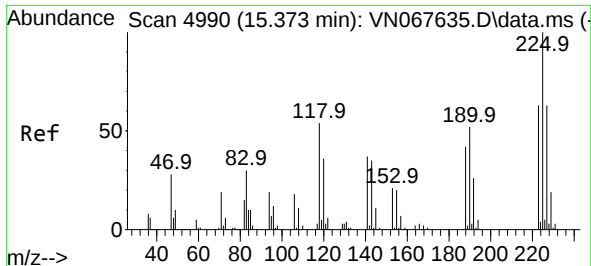
Tgt Ion: 75 Resp: 649
Ion Ratio Lower Upper
75 100
155 50.8 29.8 89.5
157 98.3 37.6 112.8



#93
1,2,4-Trichlorobenzene
Concen: 3.347 ug/l
RT: 15.268 min Scan# 4951
Delta R.T. 0.003 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

Tgt Ion: 180 Resp: 3821
Ion Ratio Lower Upper
180 100
182 100.7 47.5 142.5
145 44.1 17.2 51.6

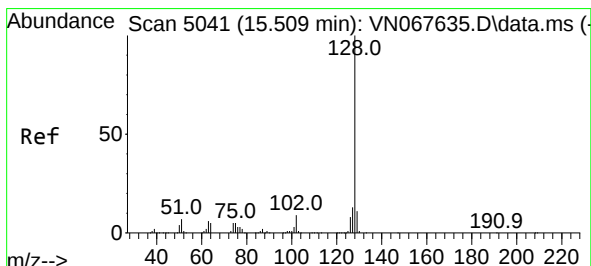
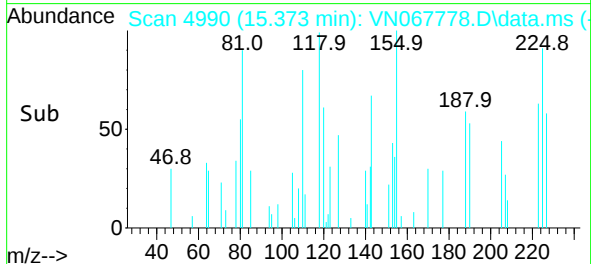
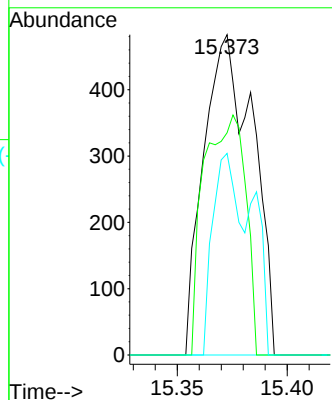
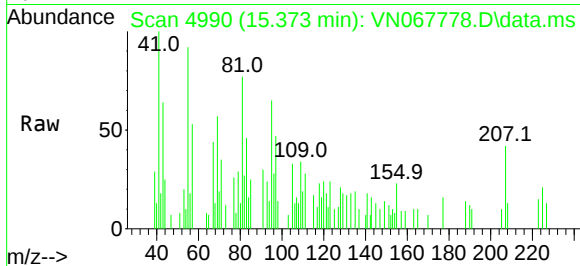




#94
Hexachlorobutadiene
Concen: 0.346 ug/l
RT: 15.373 min Scan# 4990
Delta R.T. -0.000 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

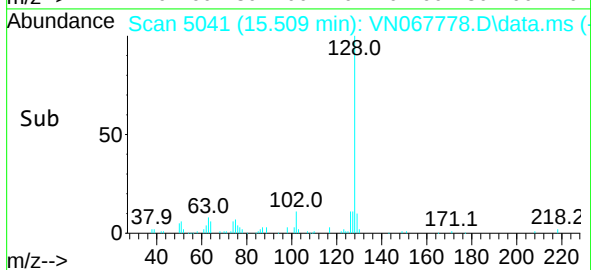
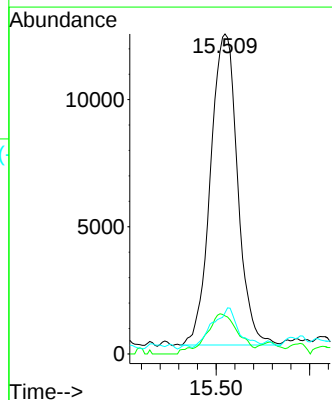
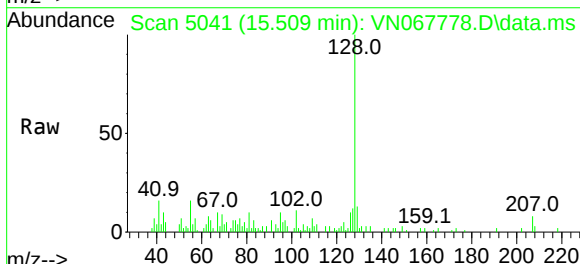
Instrument :
MSVOA_N
ClientSampled :

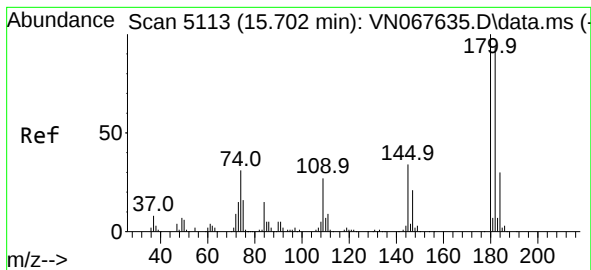
Tgt Ion:225 Resp: 749
Ion Ratio Lower Upper
225 100
223 63.6 31.4 94.0
227 35.1 31.2 93.6



#95
Naphthalene
Concen: 4.480 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.000 min
Lab File: VN067778.D
Acq: 16 Jul 2021 17:22

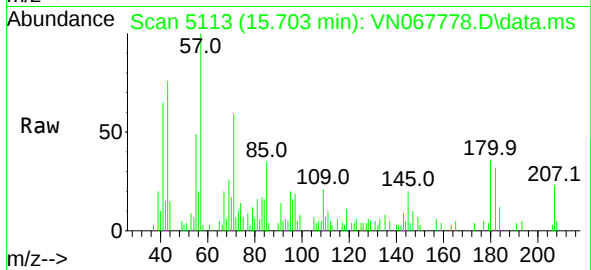
Tgt Ion:128 Resp: 24663
Ion Ratio Lower Upper
128 100
127 15.1 10.6 15.8
129 12.1 8.6 12.8





#96
 1,2,3-Trichlorobenzene
 Concen: 3.539 ug/l
 RT: 15.703 min Scan# 5113
 Delta R.T. 0.001 min
 Lab File: VN067778.D
 Acq: 16 Jul 2021 17:22

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	4931
Ion	Ratio	Lower	Upper
180	100		
182	52.7	47.8	143.3
145	31.0	18.2	54.6

