

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072721\
 Data File : VN067930.D
 Acq On : 27 Jul 2021 15:58
 Operator : JC/MD
 Sample : IBLK
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

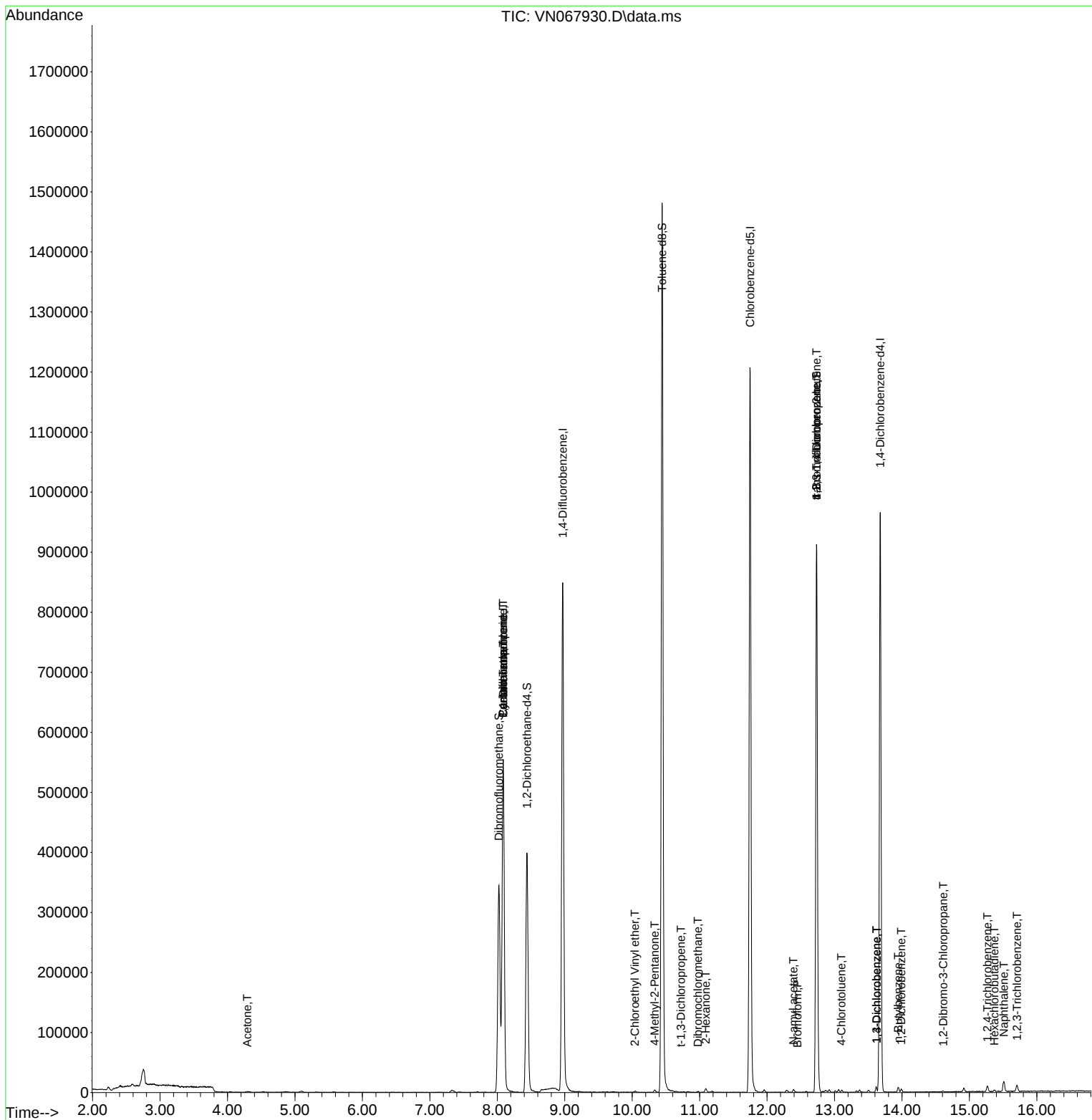
Quant Time: Jul 28 05:21:00 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N070721W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 07 16:18:53 2021
 Response via : Initial Calibration

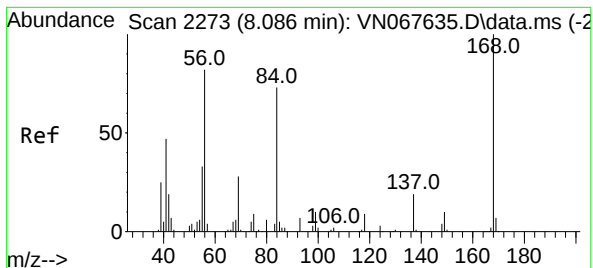
Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.086	168	400383	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	755325	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.749	117	708725	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	249090	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	342265	56.563	ug/l	0.00
Spiked Amount	50.000	Range 61 - 141	Recovery	=	113.120%	
35) Dibromofluoromethane	8.024	113	253895	55.636	ug/l	0.00
Spiked Amount	50.000	Range 69 - 133	Recovery	=	111.280%	
50) Toluene-d8	10.443	98	1033422	54.101	ug/l	0.00
Spiked Amount	50.000	Range 65 - 126	Recovery	=	108.200%	
62) 4-Bromofluorobenzene	12.733	95	327044	48.467	ug/l	0.00
Spiked Amount	50.000	Range 58 - 135	Recovery	=	96.940%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.808	94	86	Below Cal	#	4
6) Chloroethane	3.009	64	24	Below Cal	#	44
7) Trichlorofluoromethane	3.371	101	296	Below Cal		91
13) Acrolein	4.041	56	174	Below Cal	#	30
16) Acetone	4.293	43	2041	1.072	ug/l	96
20) Methylene Chloride	5.093	84	953	Below Cal	#	61
31) Cyclohexane	8.086	56	10548	1.243	ug/l #	8
36) 1,1-Dichloropropene	8.086	75	37149	5.295	ug/l #	51
38) Carbon Tetrachloride	8.086	117	44959	6.496	ug/l #	18
51) 4-Methyl-2-Pentanone	10.333	43	2800	0.381	ug/l	97
53) t-1,3-Dichloropropene	10.725	75	125	1.758	ug/l #	1
58) 2-Chloroethyl Vinyl ether	10.041	63	879	17.392	ug/l #	69
59) 2-Hexanone	11.089	43	5284	1.030	ug/l	96
60) Dibromochloromethane	10.974	129	214	2.388	ug/l #	11
71) Bromoform	12.449	173	25	3.181	ug/l #	29
74) N-amyl acetate	12.390	43	2848	0.391	ug/l #	91
76) 1,2,3-Trichloropropane	12.733	75	183583	36.090	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.733	75	183583	116.356	ug/l #	6
82) 4-Chlorotoluene	13.104	91	3156	0.232	ug/l	97
87) 1,3-Dichlorobenzene	13.624	146	2187	0.265	ug/l	93
88) 1,4-Dichlorobenzene	13.624	146	2187	0.259	ug/l	93
89) n-Butylbenzene	13.946	91	5544	0.417	ug/l	95
91) 1,2-Dichlorobenzene	13.991	146	2294	0.288	ug/l	93
92) 1,2-Dibromo-3-Chloropr...	14.611	75	362	0.357	ug/l	70
93) 1,2,4-Trichlorobenzene	15.268	180	3165	3.396	ug/l	65
94) Hexachlorobutadiene	15.370	225	507	0.303	ug/l #	71
95) Naphthalene	15.509	128	15846	4.233	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.705	180	3779	3.533	ug/l #	59

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

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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: VN067930.D

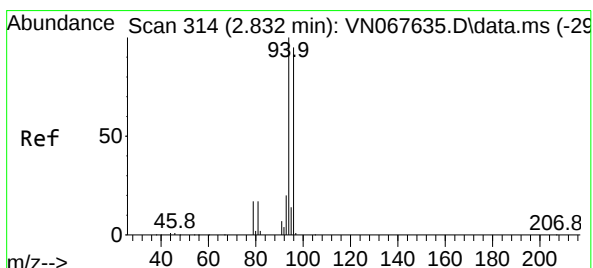
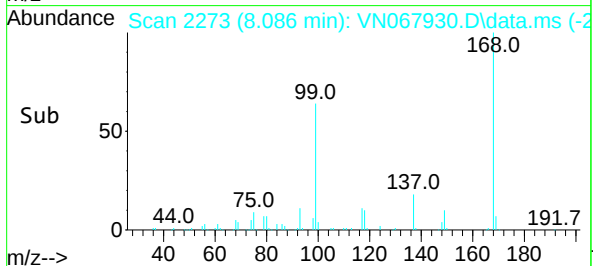
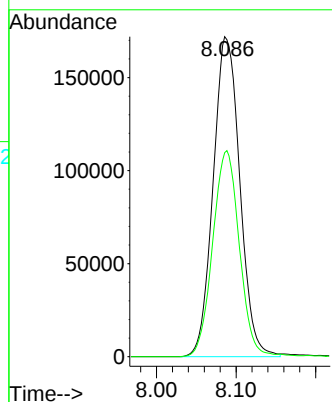
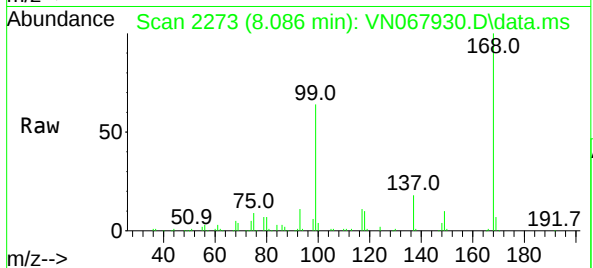
Acq: 27 Jul 2021 15:58

Tgt Ion:168 Resp: 400383

Ion Ratio Lower Upper

168 100

99 63.8 62.9 94.3



#5

Bromomethane

Concen: Below Cal

RT: 2.808 min Scan# 305

Delta R.T. -0.024 min

Lab File: VN067930.D

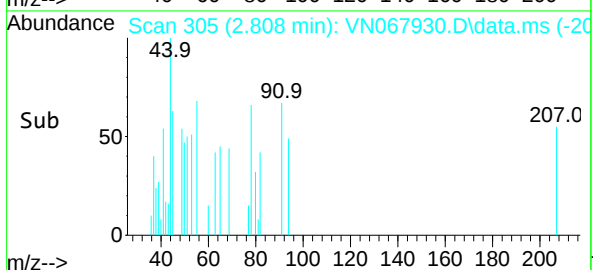
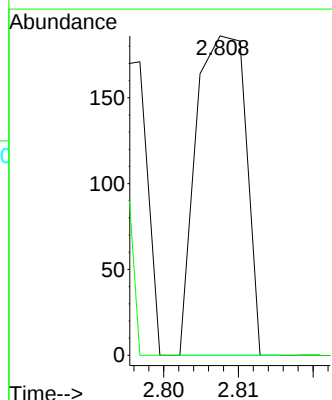
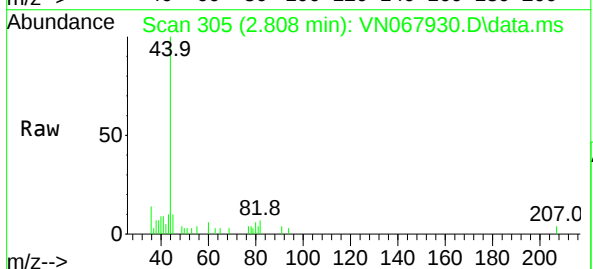
Acq: 27 Jul 2021 15:58

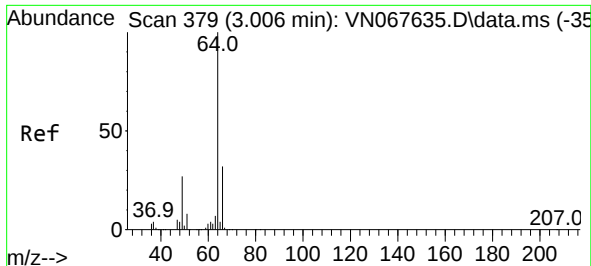
Tgt Ion: 94 Resp: 86

Ion Ratio Lower Upper

94 100

96 0.0 73.7 110.5#

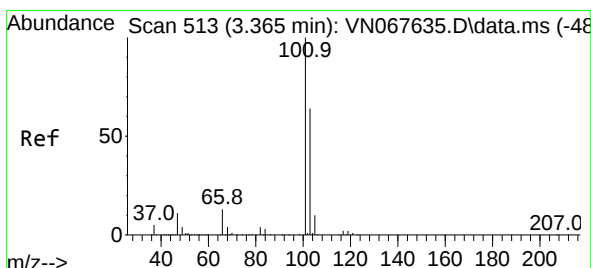
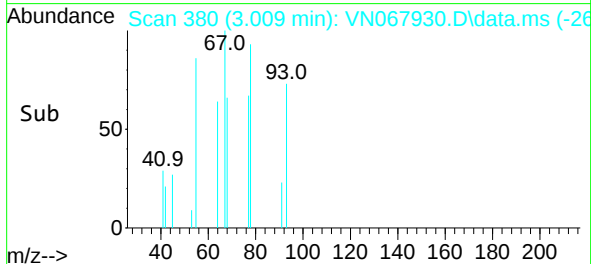
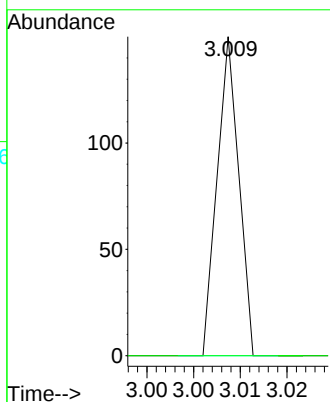
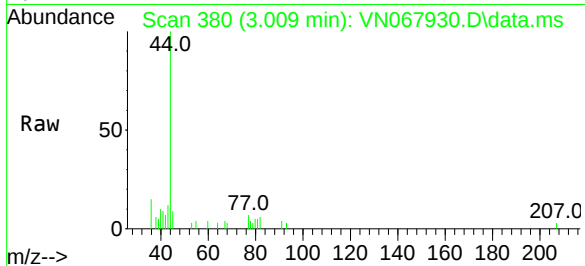




#6
Chloroethane
Concen: Below Cal
RT: 3.009 min Scan# 380
Delta R.T. 0.003 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

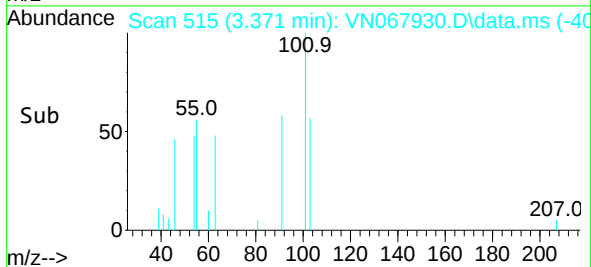
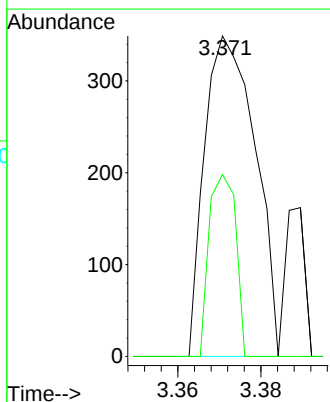
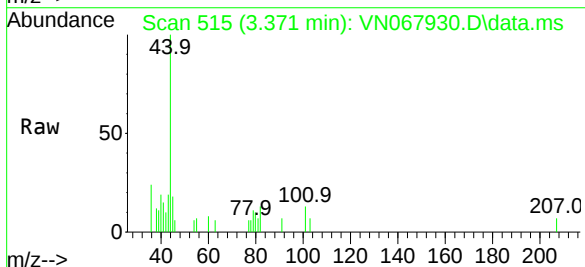
Instrument :
MSVOA_N
ClientSampled :

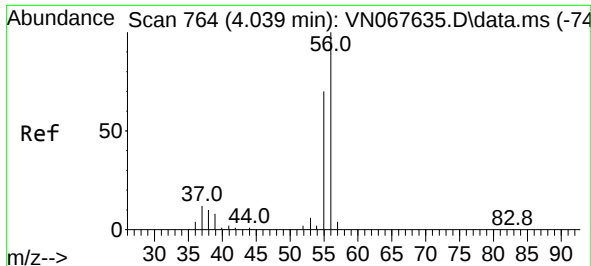
Tgt Ion: 64 Resp: 24
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#



#7
Trichlorofluoromethane
Concen: Below Cal
RT: 3.371 min Scan# 515
Delta R.T. 0.006 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

Tgt Ion: 101 Resp: 296
Ion Ratio Lower Upper
101 100
103 56.7 51.2 76.8

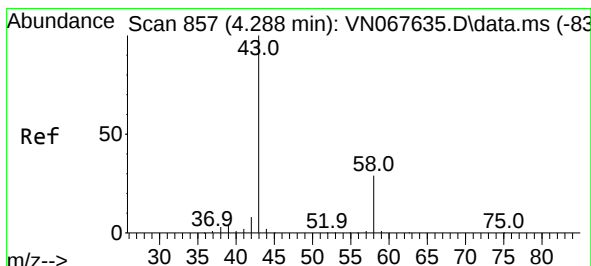
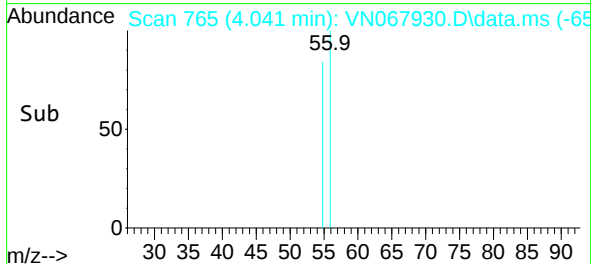
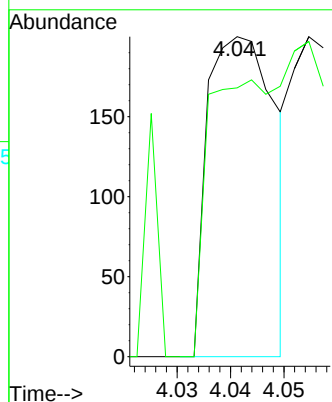
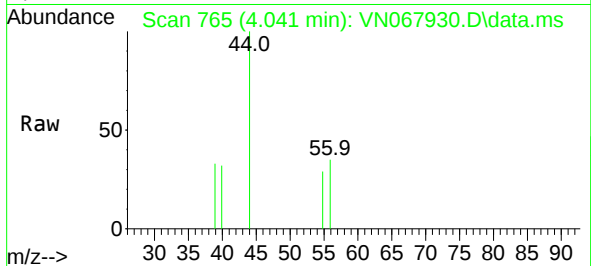




#13
Acrolein
Concen: Below Cal
RT: 4.041 min Scan# 765
Delta R.T. 0.002 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

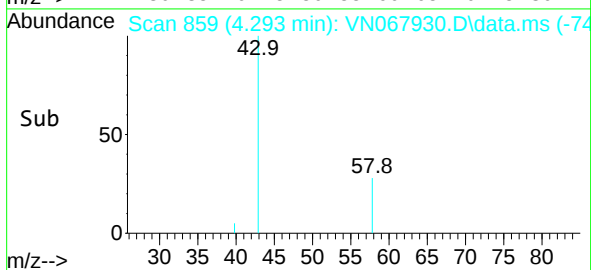
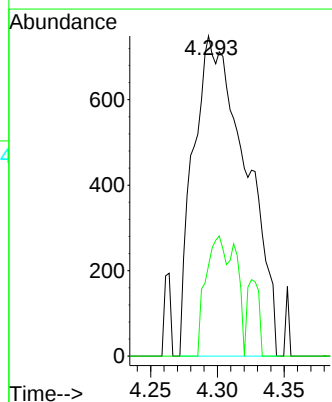
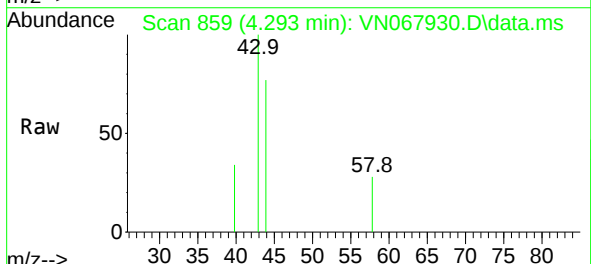
Instrument :
MSVOA_N
ClientSampled :

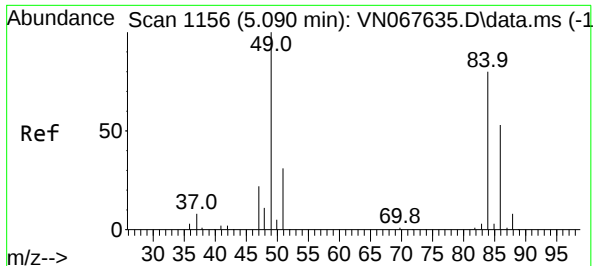
Tgt Ion: 56 Resp: 174
Ion Ratio Lower Upper
56 100
55 13.8 57.4 86.0#



#16
Acetone
Concen: 1.072 ug/l
RT: 4.293 min Scan# 859
Delta R.T. 0.005 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

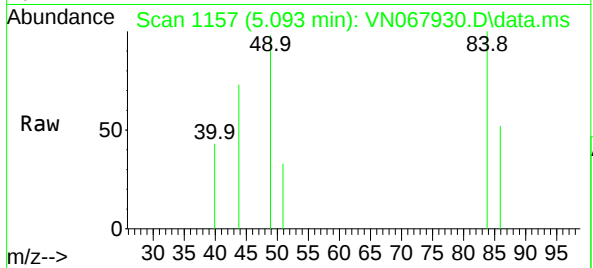
Tgt Ion: 43 Resp: 2041
Ion Ratio Lower Upper
43 100
58 28.3 21.2 31.8





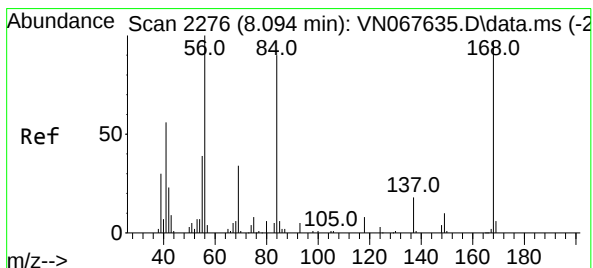
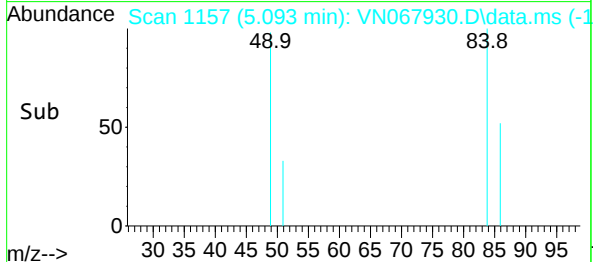
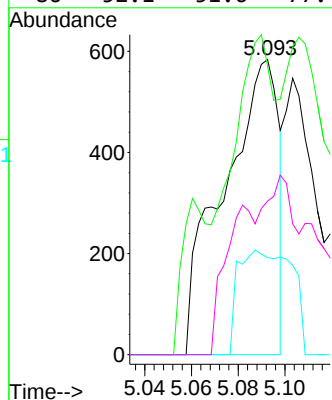
#20
Methylene Chloride
Concen: Below Cal
RT: 5.093 min Scan# 1157
Delta R.T. 0.003 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

Instrument :
MSVOA_N
ClientSampled :



Tgt Ion: 84 Resp: 953

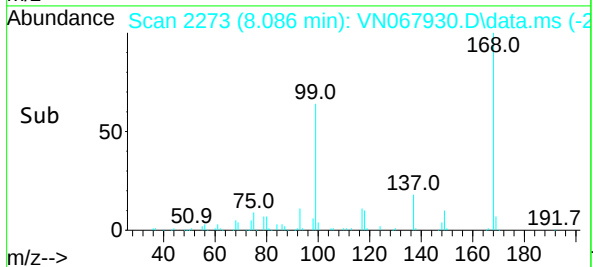
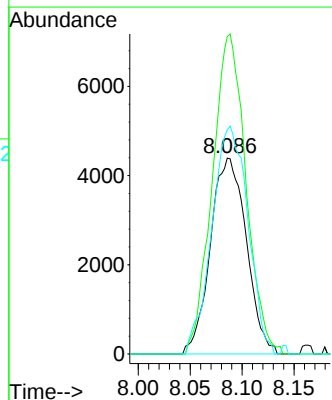
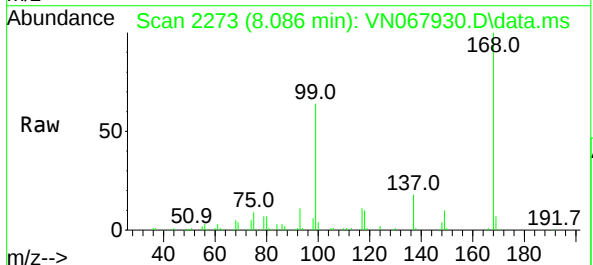
Ion	Ratio	Lower	Upper
84	100		
49	68.5	110.9	166.3#
51	32.9	32.6	49.0
86	52.1	51.6	77.4

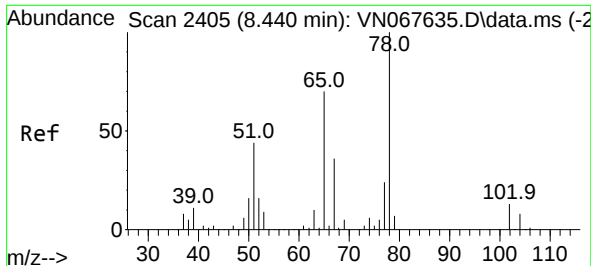


#31
Cyclohexane
Concen: 1.243 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.008 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

Tgt Ion: 56 Resp: 10548

Ion	Ratio	Lower	Upper
56	100		
69	162.0	27.3	40.9#
84	114.5	64.9	97.3#





#33

1,2-Dichloroethane-d4

Concen: 56.563 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. -0.000 min

Lab File: VN067930.D

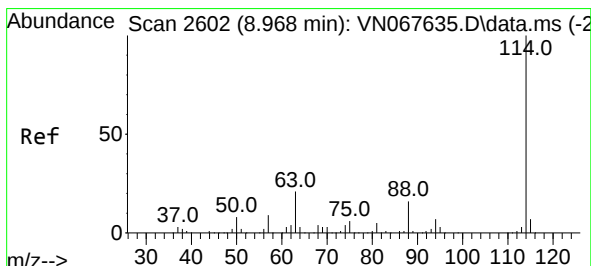
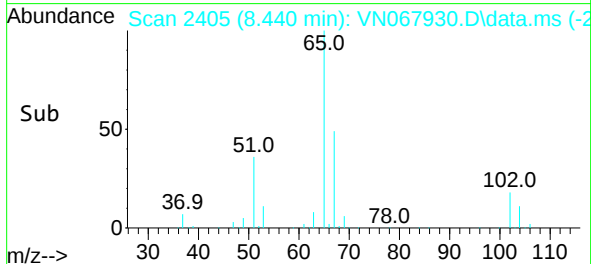
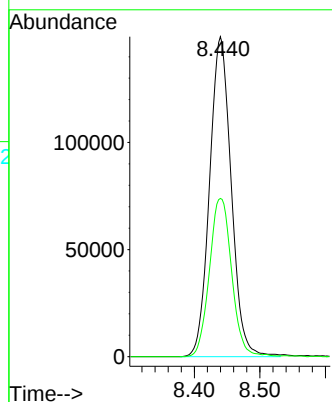
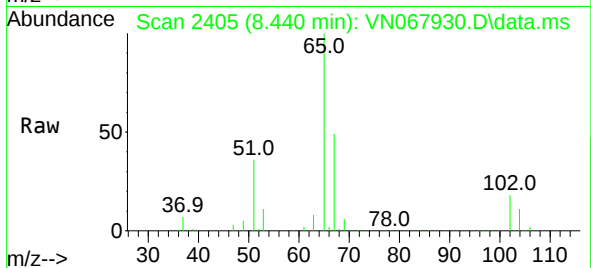
Acq: 27 Jul 2021 15:58

Tgt Ion: 65 Resp: 342265

Ion Ratio Lower Upper

65 100

67 50.7 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: VN067930.D

Acq: 27 Jul 2021 15:58

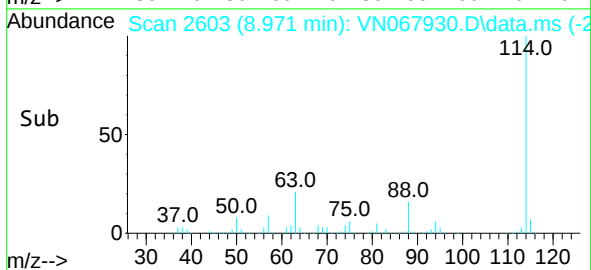
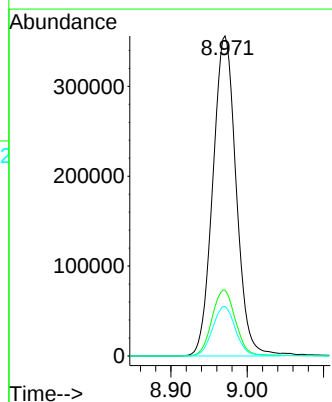
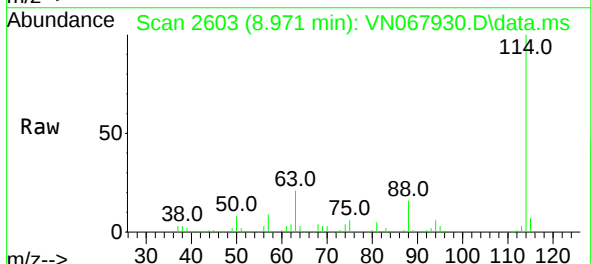
Tgt Ion: 114 Resp: 755325

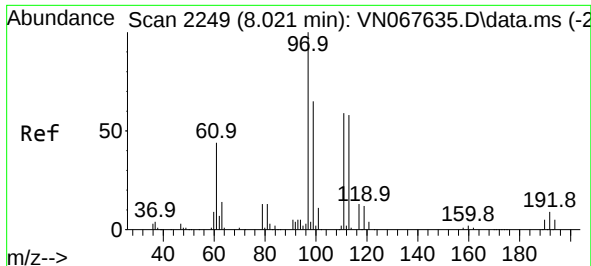
Ion Ratio Lower Upper

114 100

63 20.6 0.0 49.0

88 15.5 0.0 36.6

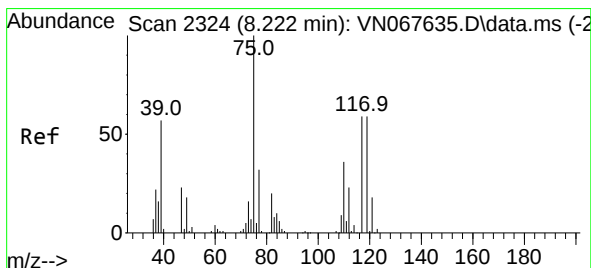
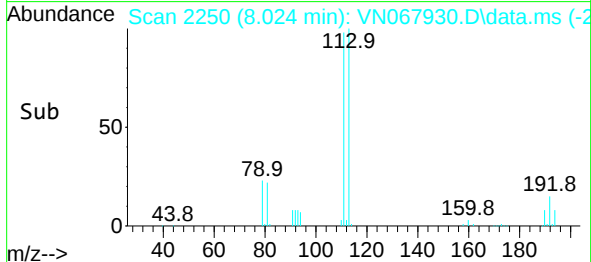
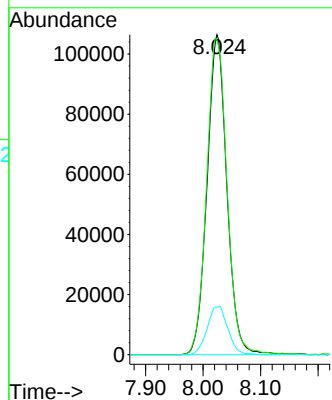
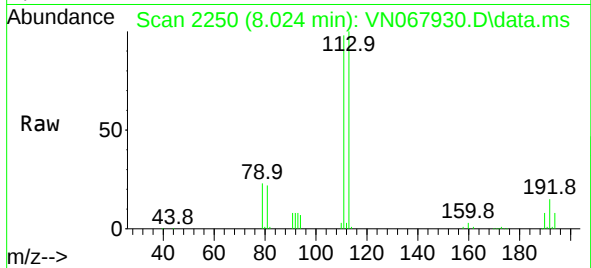




#35
Dibromofluoromethane
Concen: 55.636 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

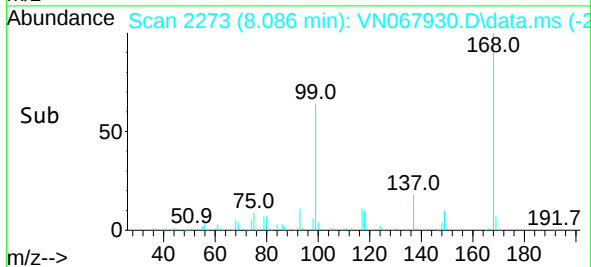
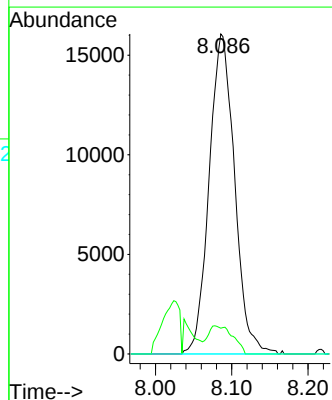
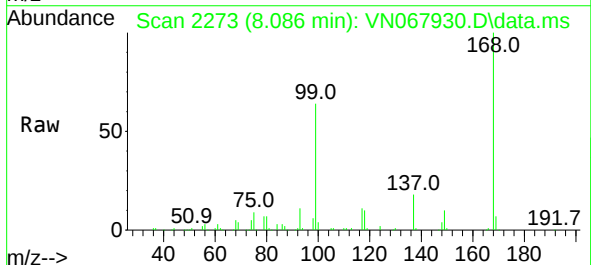
Instrument :
MSVOA_N
ClientSampled :

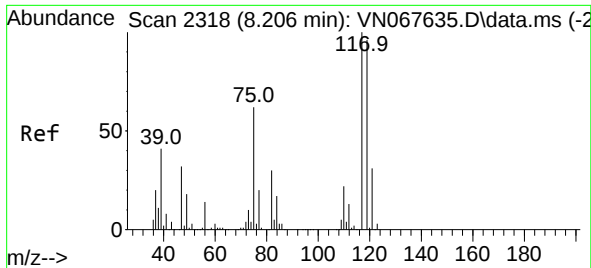
Tgt Ion:113 Resp: 253895
Ion Ratio Lower Upper
113 100
111 102.2 83.8 125.8
192 15.8 13.4 20.0



#36
1,1-Dichloropropene
Concen: 5.295 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.136 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

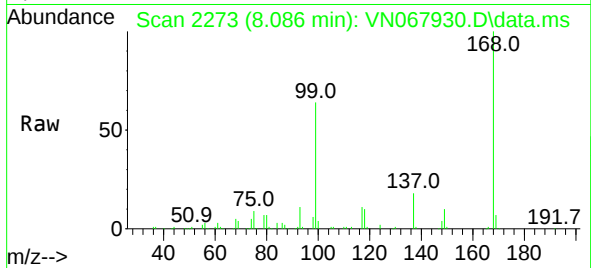
Tgt Ion: 75 Resp: 37149
Ion Ratio Lower Upper
75 100
110 8.6 15.7 47.0#
77 0.0 24.6 37.0#



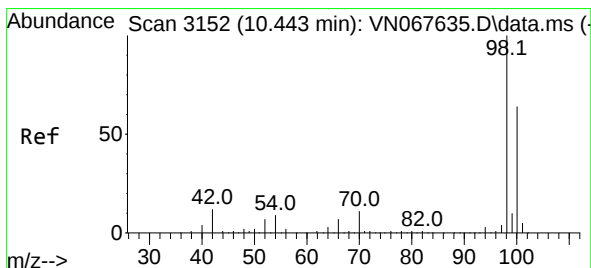
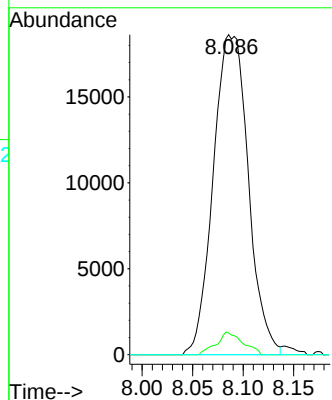
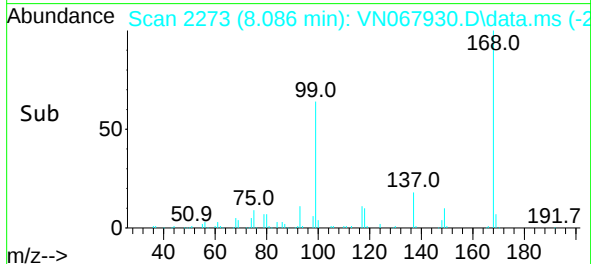


#38
Carbon Tetrachloride
Concen: 6.496 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.120 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

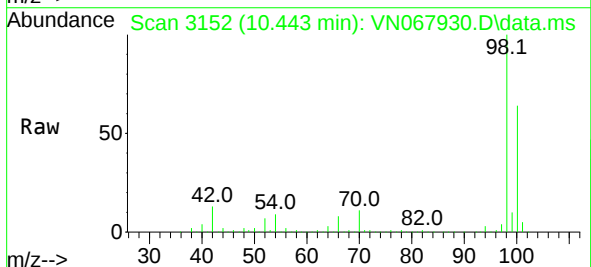
Instrument :
MSVOA_N
ClientSampleId :



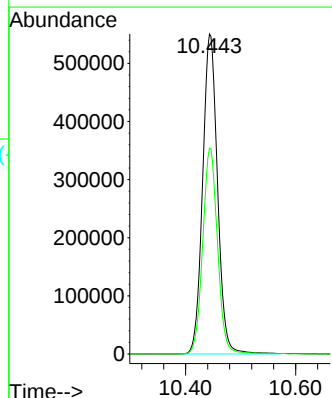
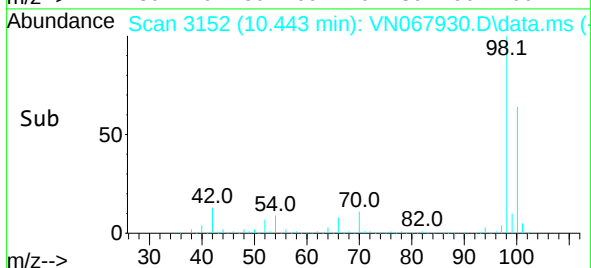
Tgt Ion:117 Resp: 44959
Ion Ratio Lower Upper
117 100
119 6.8 75.4 113.2#
121 0.0 23.5 35.3#

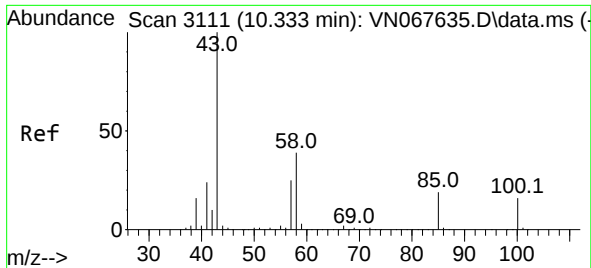


#50
Toluene-d8
Concen: 54.101 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58



Tgt Ion: 98 Resp: 1033422
Ion Ratio Lower Upper
98 100
100 63.8 51.7 77.5

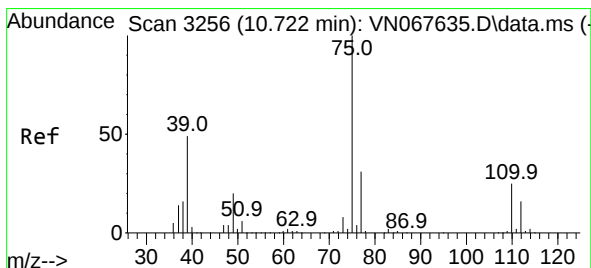
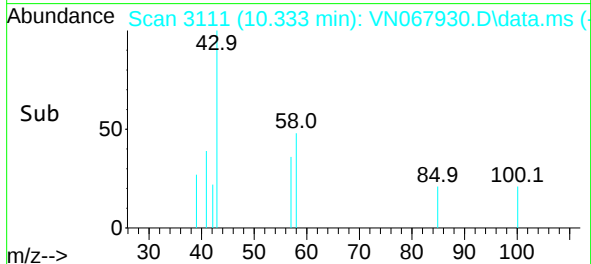
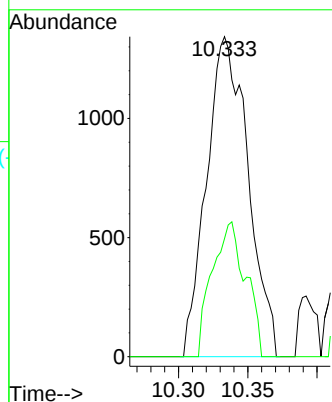
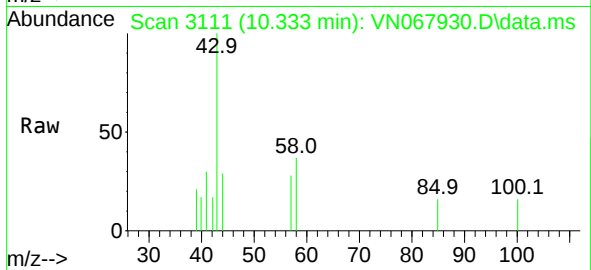




#51
4-Methyl-2-Pentanone
Concen: 0.381 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.000 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

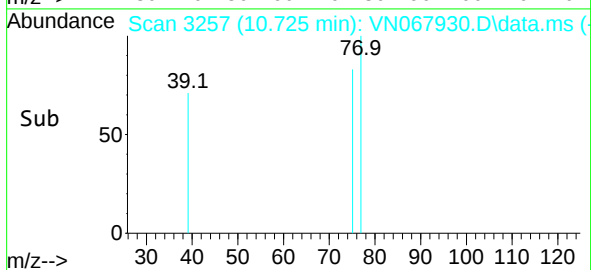
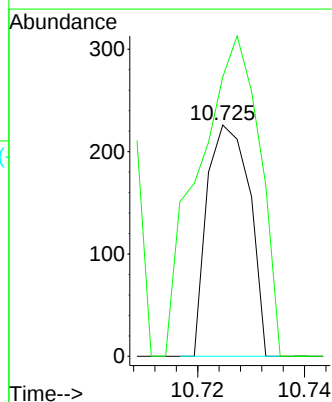
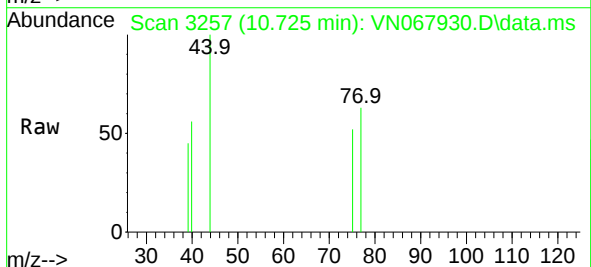
Instrument :
MSVOA_N
ClientSampled :

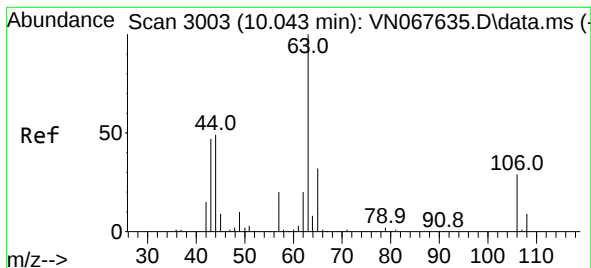
Tgt Ion: 43 Resp: 2800
Ion Ratio Lower Upper
43 100
58 33.9 28.6 43.0



#53
t-1,3-Dichloropropene
Concen: 1.758 ug/l
RT: 10.725 min Scan# 3257
Delta R.T. 0.003 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

Tgt Ion: 75 Resp: 125
Ion Ratio Lower Upper
75 100
77 120.8 25.1 37.7#

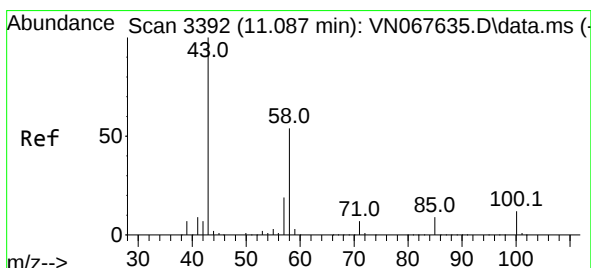
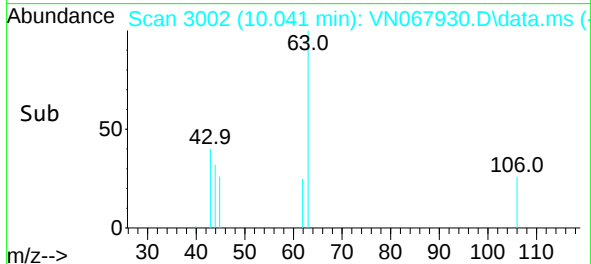
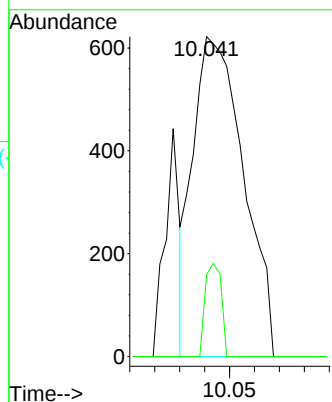
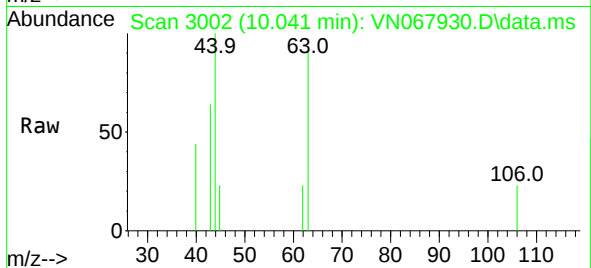




#58
2-Chloroethyl Vinyl ether
Concen: 17.392 ug/l
RT: 10.041 min Scan# 3002
Delta R.T. -0.002 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

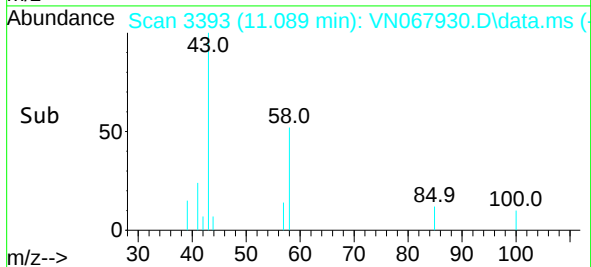
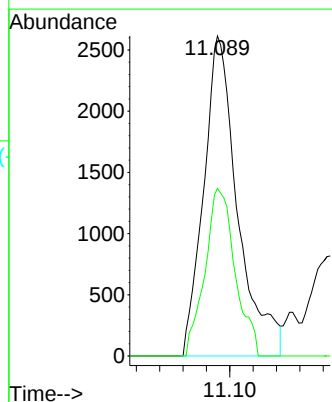
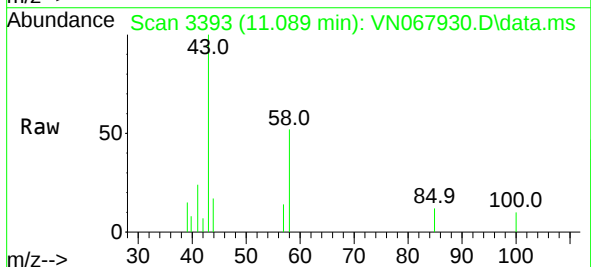
Instrument :
MSVOA_N
ClientSampled :

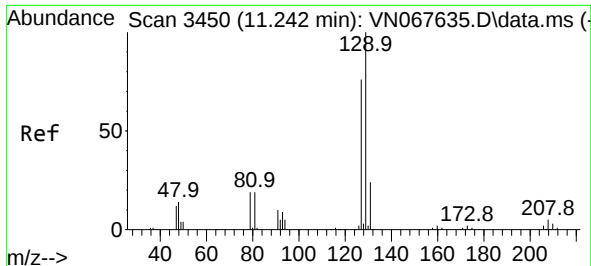
Tgt Ion: 63 Resp: 879
Ion Ratio Lower Upper
63 100
106 9.2 19.8 29.8#



#59
2-Hexanone
Concen: 1.030 ug/l
RT: 11.089 min Scan# 3393
Delta R.T. 0.002 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

Tgt Ion: 43 Resp: 5284
Ion Ratio Lower Upper
43 100
58 46.4 24.7 74.1

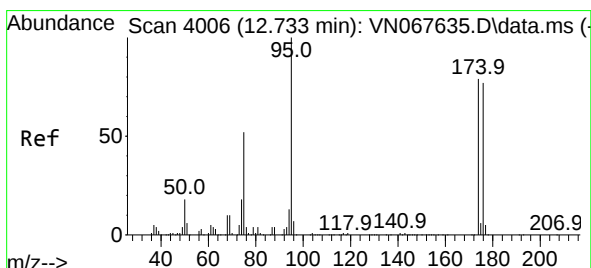
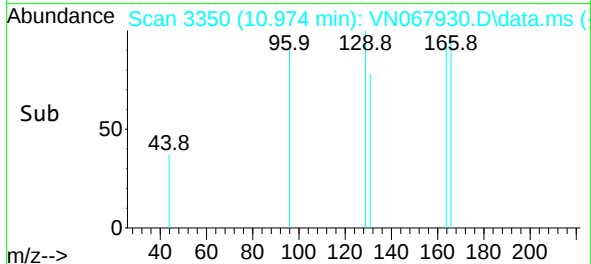
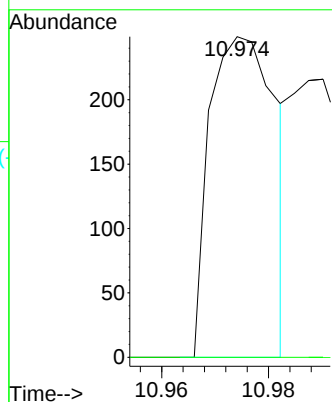
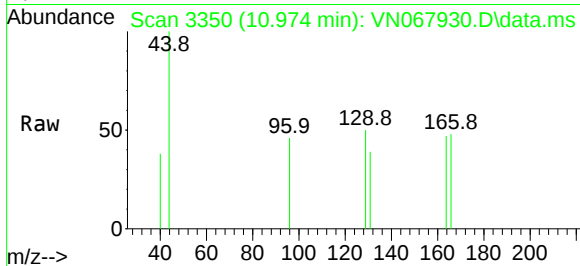




#60
Dibromochloromethane
Concen: 2.388 ug/l
RT: 10.974 min Scan# 3350
Delta R.T. -0.268 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

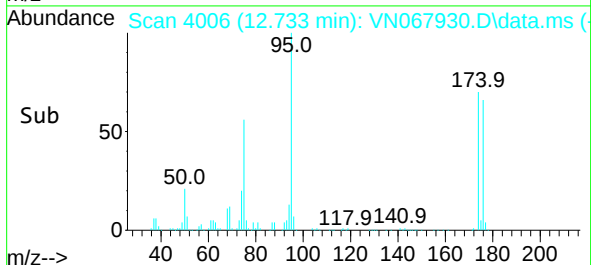
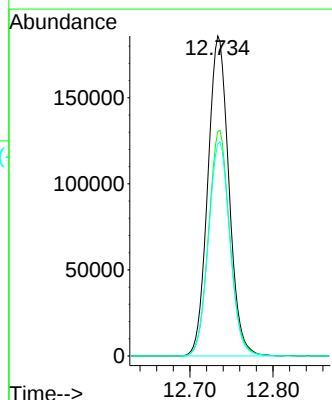
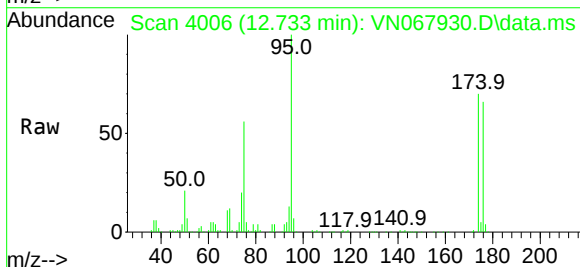
Instrument :
MSVOA_N
ClientSampled :

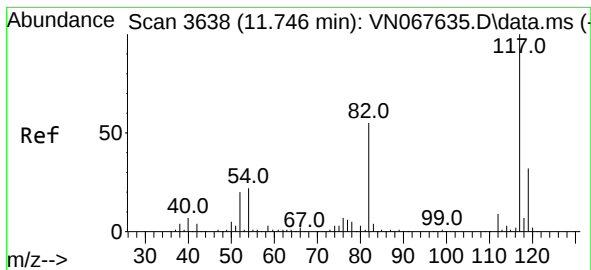
Tgt Ion:129 Resp: 214
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#



#62
4-Bromofluorobenzene
Concen: 48.467 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

Tgt Ion: 95 Resp: 327044
Ion Ratio Lower Upper
95 100
174 71.0 0.0 122.0
176 68.2 0.0 117.6

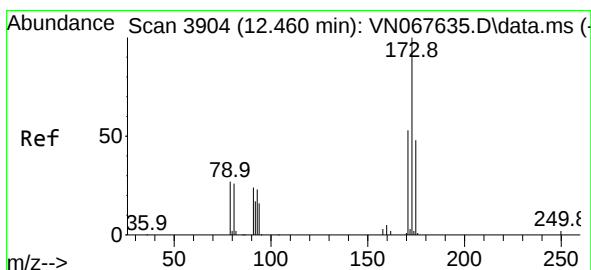
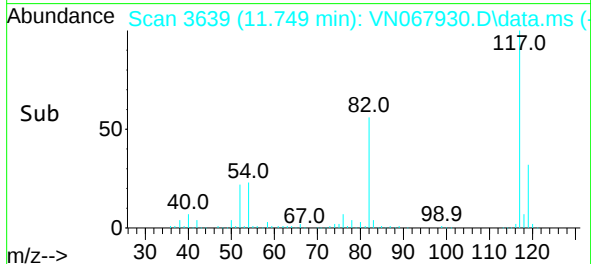
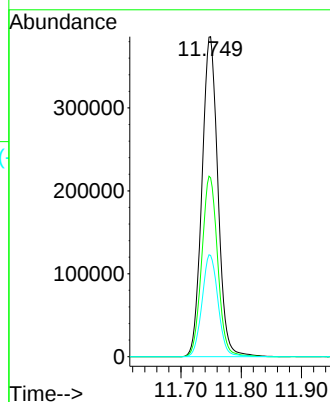
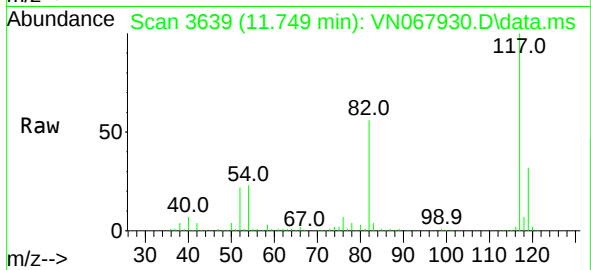




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.003 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

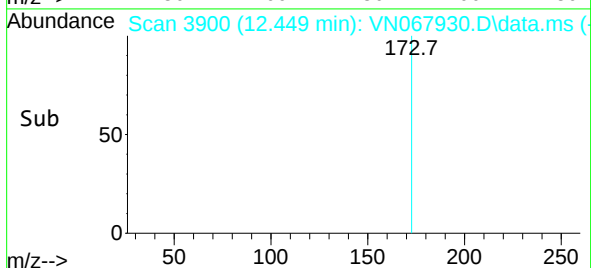
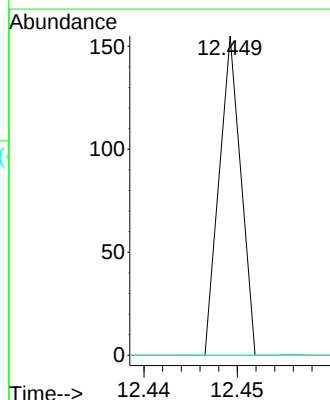
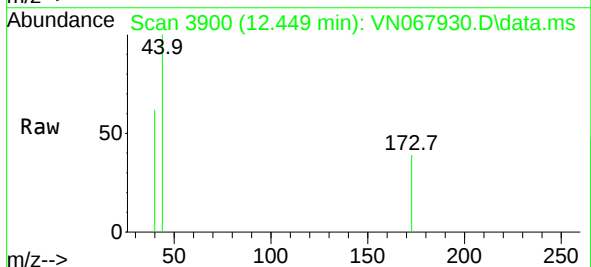
Instrument :
MSVOA_N
ClientSampleId :

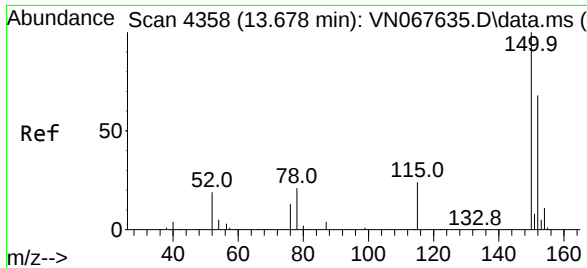
Tgt Ion:117 Resp: 708725
Ion Ratio Lower Upper
117 100
82 55.9 53.1 79.7
119 31.7 25.5 38.3



#71
Bromoform
Concen: 3.181 ug/l
RT: 12.449 min Scan# 3900
Delta R.T. -0.011 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

Tgt Ion:173 Resp: 25
Ion Ratio Lower Upper
173 100
175 0.0 23.9 71.8#
254 0.0 0.0 0.0

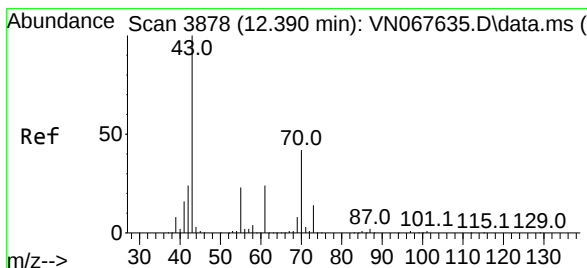
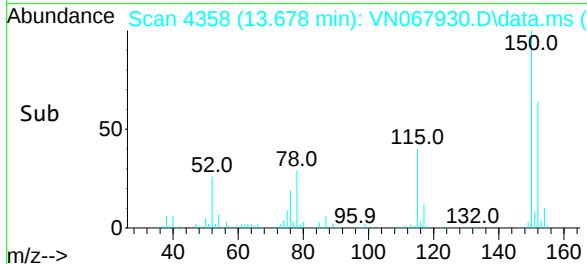
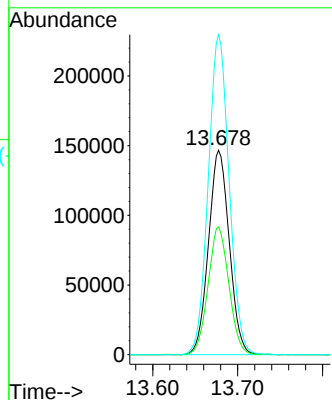
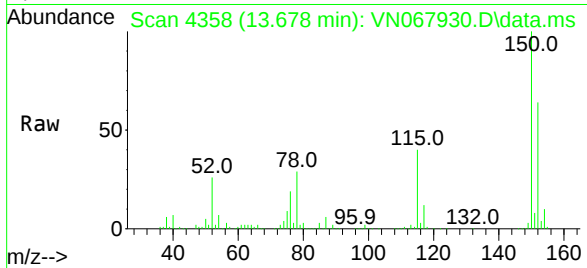




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.678 min Scan# 4358
 Delta R.T. 0.000 min
 Lab File: VN067930.D
 Acq: 27 Jul 2021 15:58

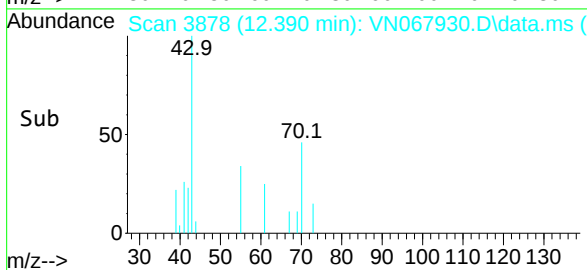
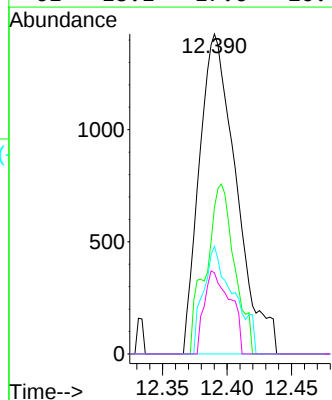
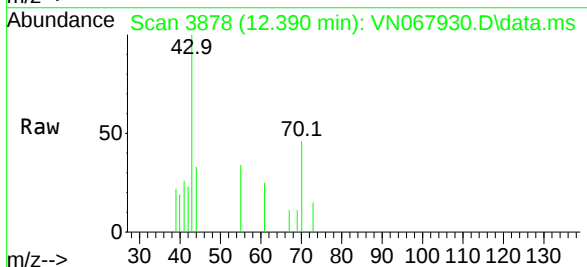
Instrument :
 MSVOA_N
 ClientSampled :

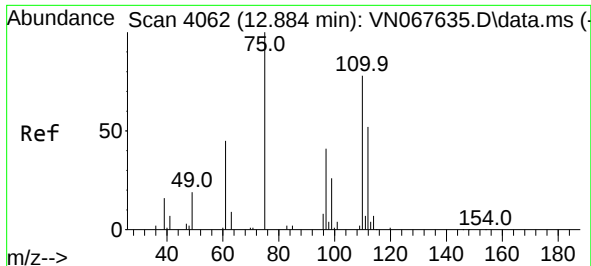
Tgt Ion:152 Resp: 249090
 Ion Ratio Lower Upper
 152 100
 115 62.6 36.1 108.5
 150 157.0 0.0 351.8



#74
 N-ethyl acetate
 Concen: 0.391 ug/l
 RT: 12.390 min Scan# 3878
 Delta R.T. 0.000 min
 Lab File: VN067930.D
 Acq: 27 Jul 2021 15:58

Tgt Ion: 43 Resp: 2848
 Ion Ratio Lower Upper
 43 100
 70 40.9 29.4 44.2
 55 27.5 17.0 25.4#
 61 18.1 17.6 26.4

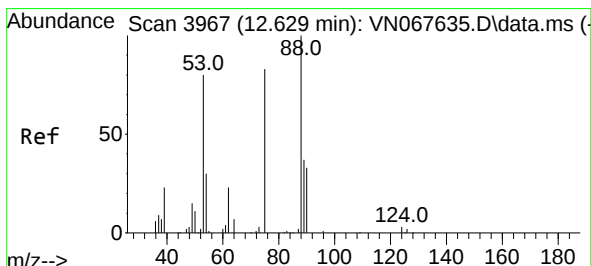
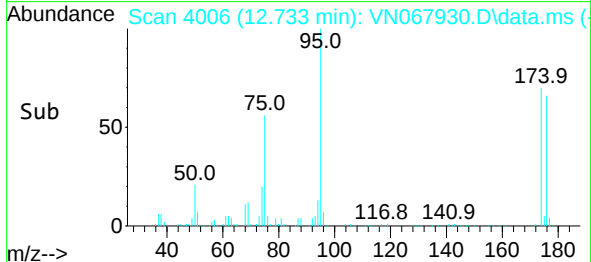
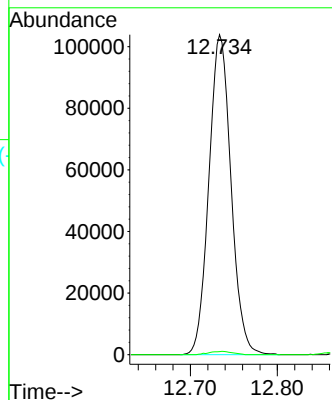
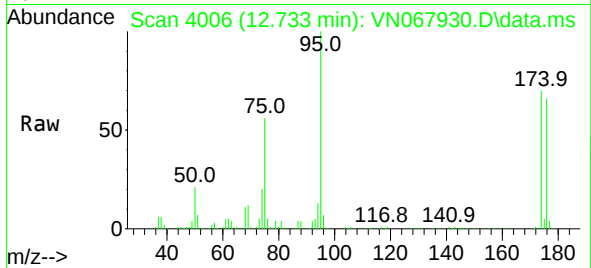




#76
1,2,3-Trichloropropane
Concen: 36.090 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.151 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

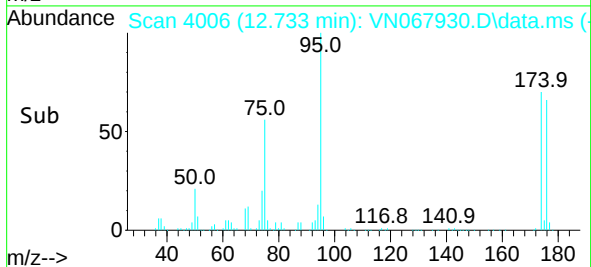
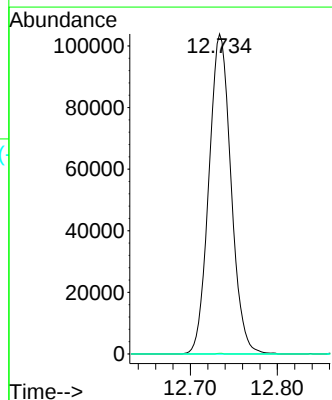
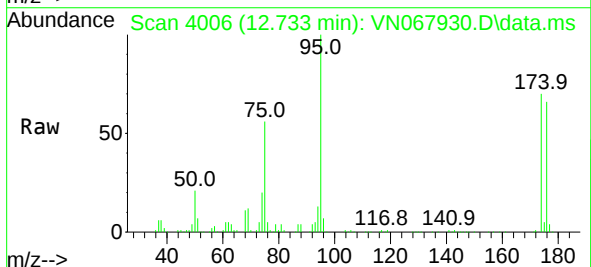
Instrument :
MSVOA_N
ClientSampled :

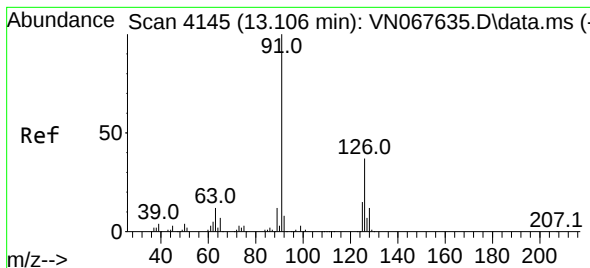
Tgt Ion: 75 Resp: 183583
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 116.356 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.104 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

Tgt Ion: 75 Resp: 183583
Ion Ratio Lower Upper
75 100
53 0.1 87.6 131.4#
89 0.0 37.8 56.8#

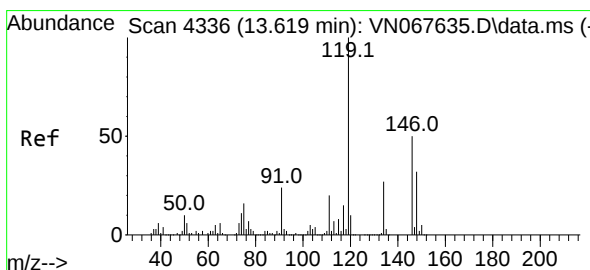
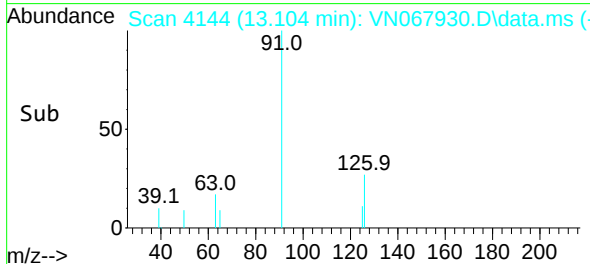
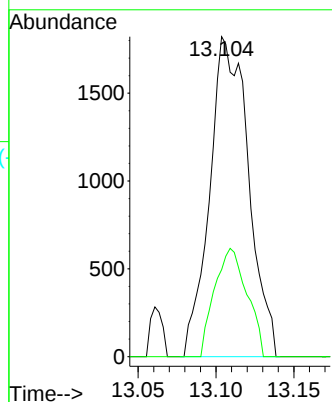
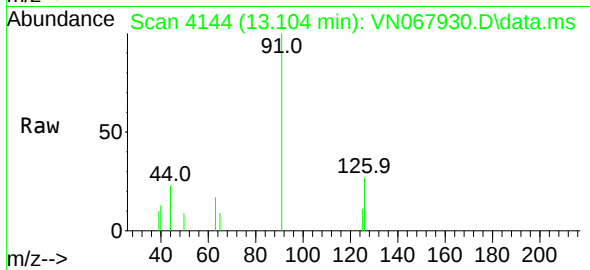




#82
4-Chlorotoluene
Concen: 0.232 ug/l
RT: 13.104 min Scan# 4144
Delta R.T. -0.002 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

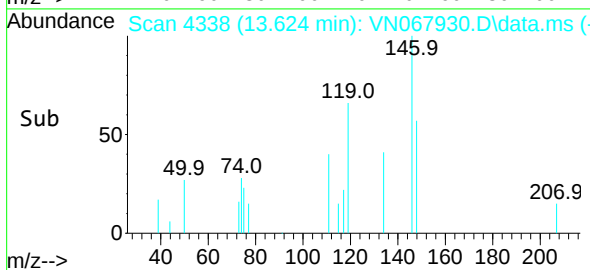
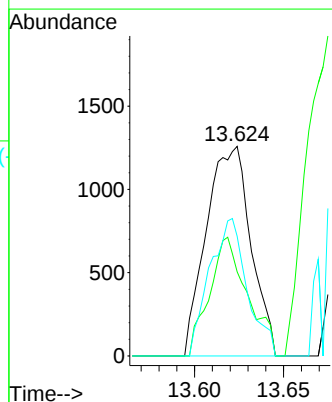
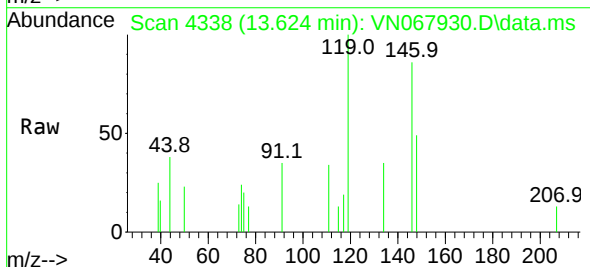
Instrument :
MSVOA_N
ClientSampled :

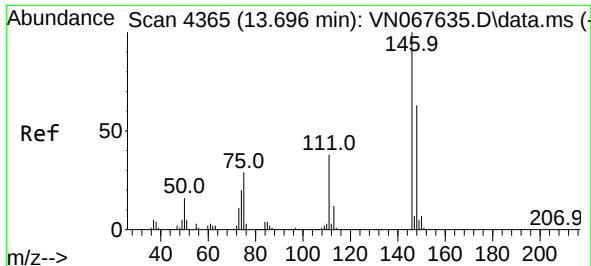
Tgt Ion: 91 Resp: 3156
Ion Ratio Lower Upper
91 100
126 28.2 14.8 44.4



#87
1,3-Dichlorobenzene
Concen: 0.265 ug/l
RT: 13.624 min Scan# 4338
Delta R.T. 0.005 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

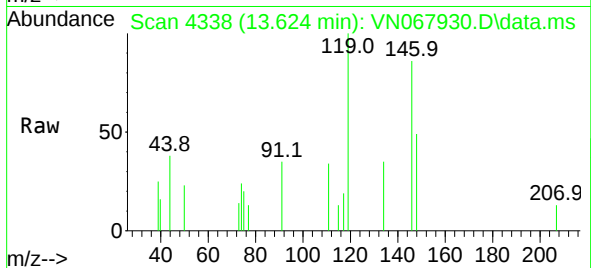
Tgt Ion: 146 Resp: 2187
Ion Ratio Lower Upper
146 100
111 48.2 24.3 72.8
148 55.2 32.0 96.0



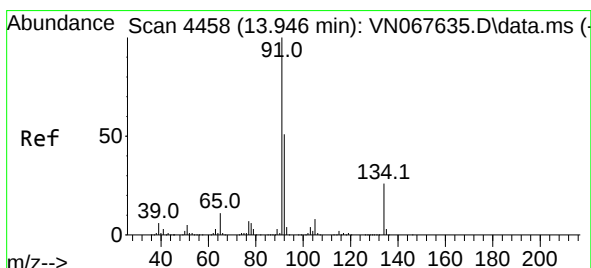
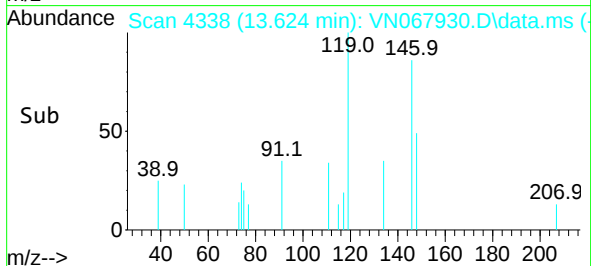
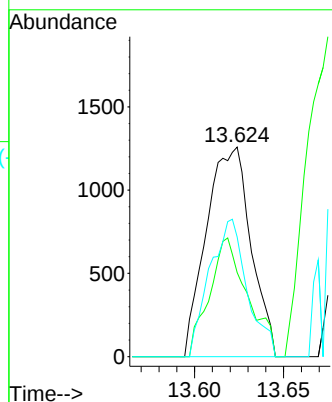


#88
1,4-Dichlorobenzene
Concen: 0.259 ug/l
RT: 13.624 min Scan# 4338
Delta R.T. -0.072 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

Instrument :
MSVOA_N
ClientSampleId :

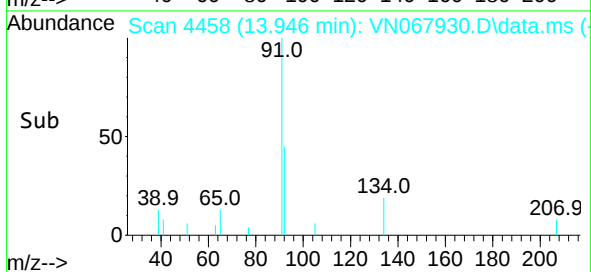
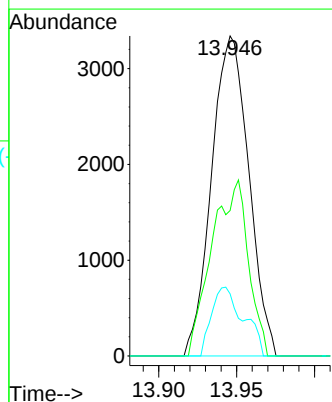
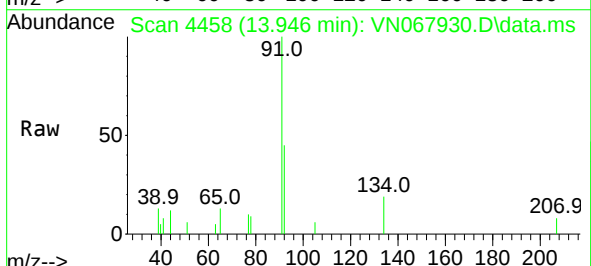


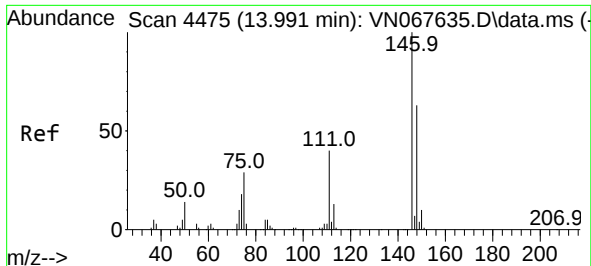
Tgt Ion:146 Resp: 2187
Ion Ratio Lower Upper
146 100
111 48.2 23.4 70.2
148 55.2 31.8 95.3



#89
n-Butylbenzene
Concen: 0.417 ug/l
RT: 13.946 min Scan# 4458
Delta R.T. -0.000 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

Tgt Ion: 91 Resp: 5544
Ion Ratio Lower Upper
91 100
92 54.1 25.7 77.1
134 18.4 11.2 33.6

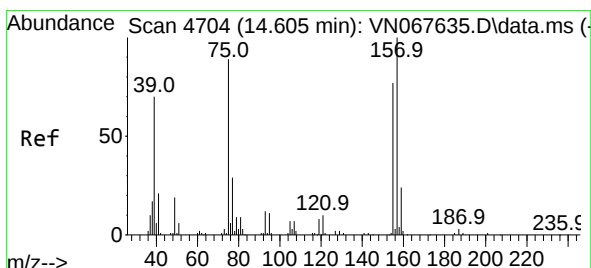
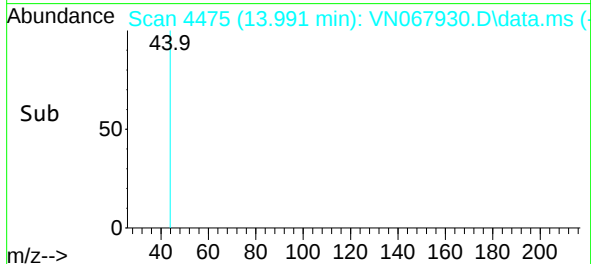
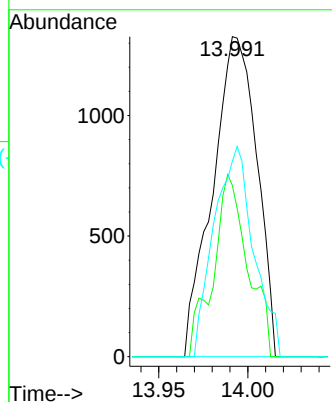
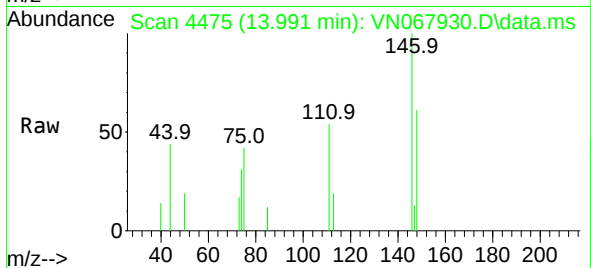




#91
1,2-Dichlorobenzene
Concen: 0.288 ug/l
RT: 13.991 min Scan# 4475
Delta R.T. 0.000 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

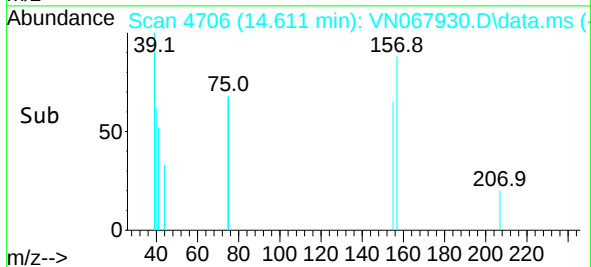
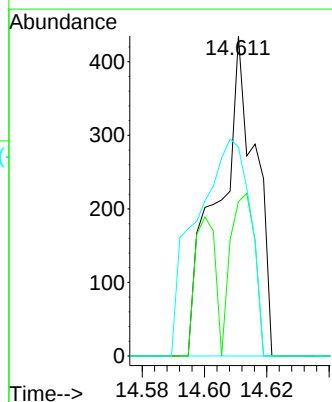
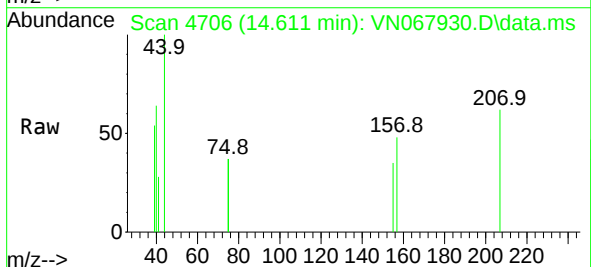
Instrument :
MSVOA_N
ClientSampled :

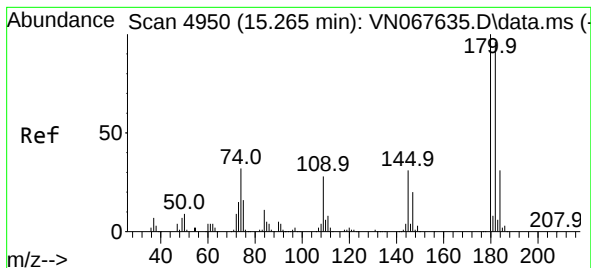
Tgt Ion:146 Resp: 2294
Ion Ratio Lower Upper
146 100
111 44.5 24.9 74.6
148 58.7 31.6 95.0



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.357 ug/l
RT: 14.611 min Scan# 4706
Delta R.T. 0.006 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

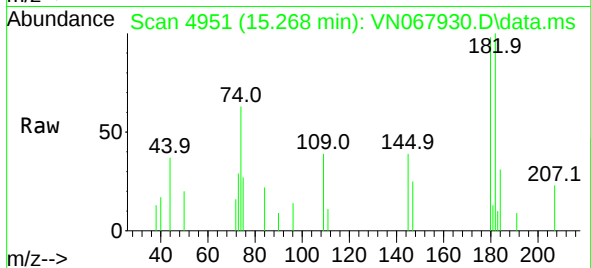
Tgt Ion: 75 Resp: 362
Ion Ratio Lower Upper
75 100
155 33.1 29.8 89.5
157 97.5 37.6 112.8



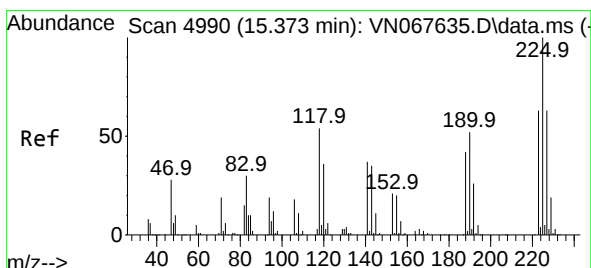
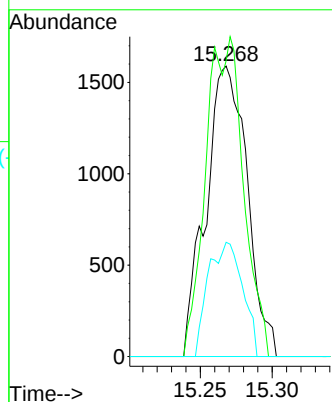
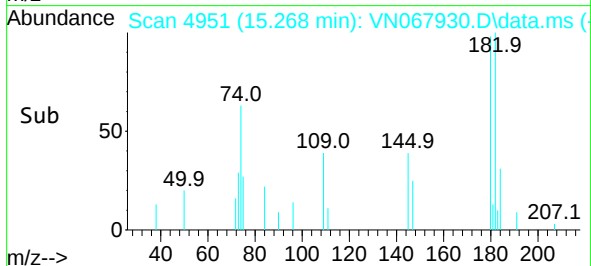


#93
1,2,4-Trichlorobenzene
Concen: 3.396 ug/l
RT: 15.268 min Scan# 4951
Delta R.T. 0.003 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

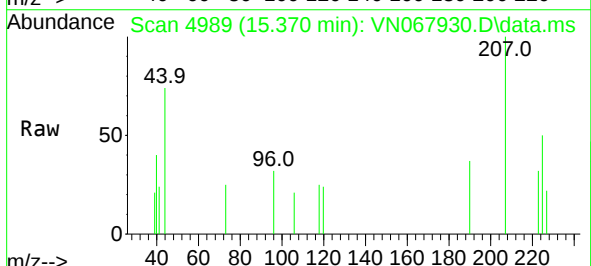
Instrument :
MSVOA_N
ClientSampled :



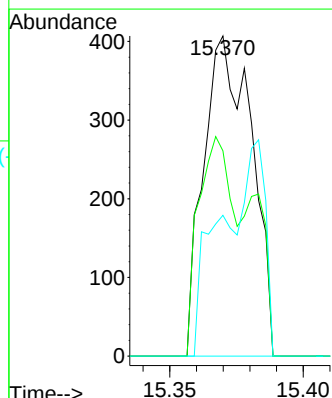
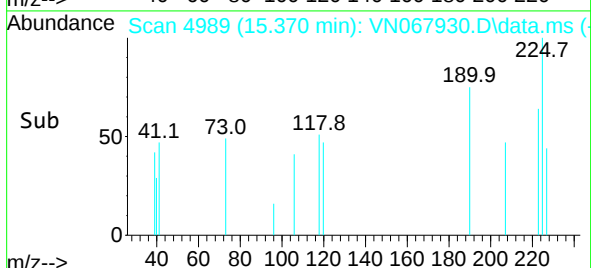
Tgt Ion:180 Resp: 3165
Ion Ratio Lower Upper
180 100
182 49.3 47.5 142.5
145 32.8 17.2 51.6

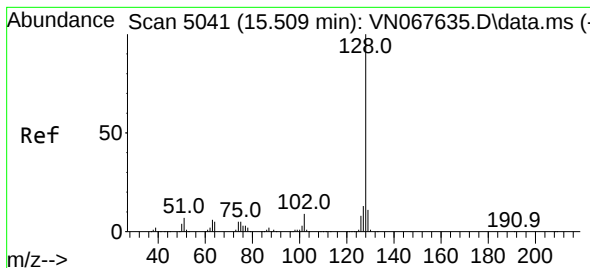


#94
Hexachlorobutadiene
Concen: 0.303 ug/l
RT: 15.370 min Scan# 4989
Delta R.T. -0.003 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58



Tgt Ion:225 Resp: 507
Ion Ratio Lower Upper
225 100
223 48.9 31.4 94.0
227 31.0 31.2 93.6#

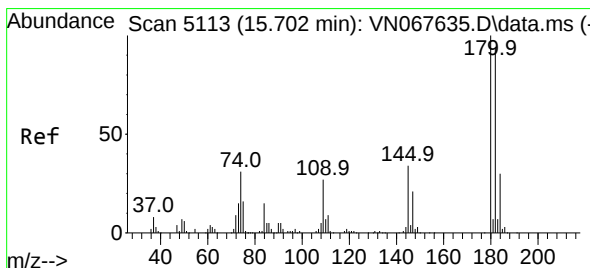
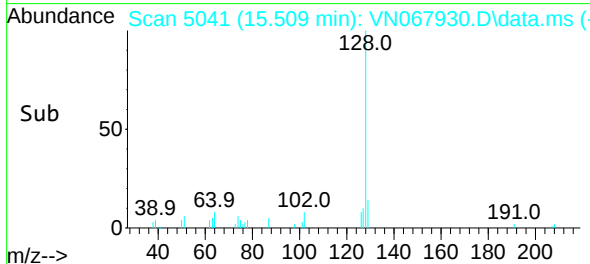
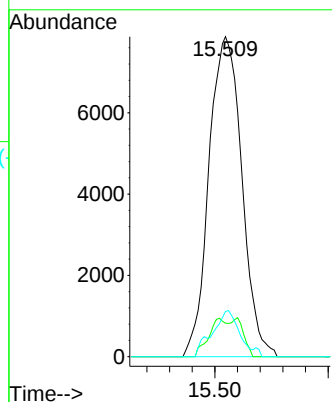
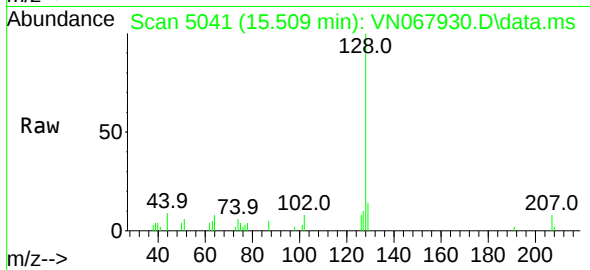




#95
Naphthalene
Concen: 4.233 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.000 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion:128 Resp: 15846
Ion Ratio Lower Upper
128 100
127 7.0 10.6 15.8#
129 12.1 8.6 12.8



#96
1,2,3-Trichlorobenzene
Concen: 3.533 ug/l
RT: 15.705 min Scan# 5114
Delta R.T. 0.003 min
Lab File: VN067930.D
Acq: 27 Jul 2021 15:58

Tgt Ion:180 Resp: 3779
Ion Ratio Lower Upper
180 100
182 43.7 47.8 143.3#
145 41.1 18.2 54.6

