

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072721\
 Data File : VN067931.D
 Acq On : 27 Jul 2021 16:23
 Operator : JC/MD
 Sample : M3147-20
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 28 05:21:19 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)

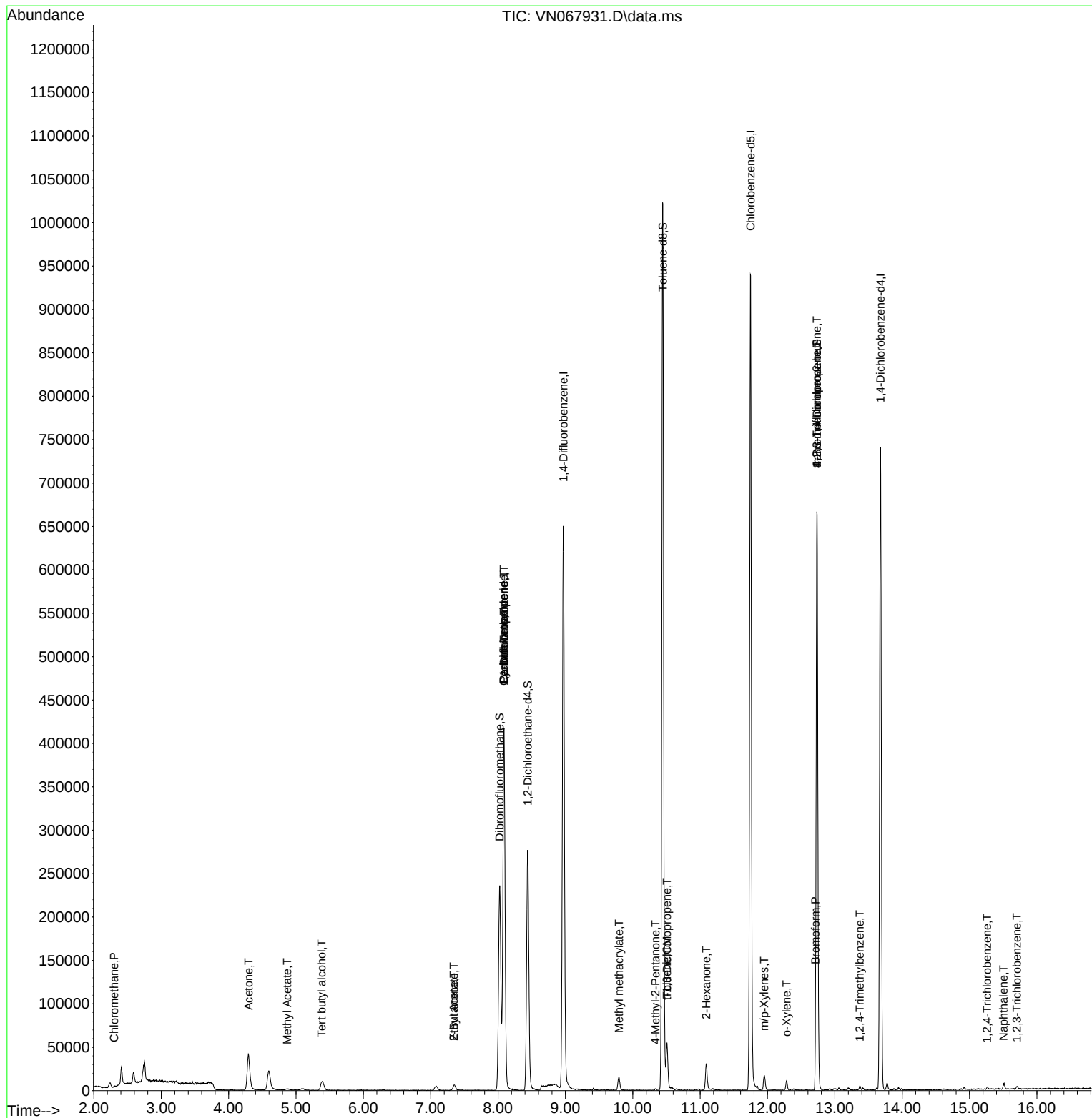
Internal Standards						
1) Pentafluorobenzene	8.088	168	294894	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	567531	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.749	117	544794	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	191646	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	233394	52.369	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 104.740%			
35) Dibromofluoromethane	8.024	113	172867	50.415	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 100.820%			
50) Toluene-d8	10.446	98	716672	49.934	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 99.860%			
62) 4-Bromofluorobenzene	12.734	95	233821	46.118	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 92.240%			
Target Compounds					Qvalue	
3) Chloromethane	2.301	50	1015	0.256	ug/l #	76
5) Bromomethane	2.821	94	58	Below Cal	#	4
6) Chloroethane	2.963	64	27	Below Cal	#	44
7) Trichlorofluoromethane	3.368	101	125	Below Cal	#	18
11) Tert butyl alcohol	5.380	59	7444	11.623	ug/l #	85
13) Acrolein	4.044	56	289	Below Cal	#	24
16) Acetone	4.296	43	75235	53.649	ug/l	96
18) Methyl Acetate	4.870	43	2771	0.703	ug/l #	63
20) Methylene Chloride	5.085	84	486	Below Cal	#	54
25) 2-Butanone	7.343	43	10522	4.518	ug/l	96
31) Cyclohexane	8.086	56	8269	1.323	ug/l #	29
36) 1,1-Dichloropropene	8.086	75	26431	5.014	ug/l #	52
37) Ethyl Acetate	7.343	43	10522	2.060	ug/l #	69
38) Carbon Tetrachloride	8.088	117	33333	6.410	ug/l #	16
48) Methyl methacrylate	9.797	41	6884	1.732	ug/l #	33
51) 4-Methyl-2-Pentanone	10.339	43	1112	0.201	ug/l #	83
52) Toluene	10.508	92	19390	1.876	ug/l	93
53) t-1,3-Dichloropropene	10.505	75	28	1.748	ug/l #	51
59) 2-Hexanone	11.092	43	23163	6.012	ug/l	94
68) m/p-Xylenes	11.950	106	5724	0.743	ug/l	86
69) o-Xylene	12.283	106	2598	0.343	ug/l	93
71) Bromoform	12.712	173	64	3.193	ug/l #	29
76) 1,2,3-Trichloropropane	12.734	75	133463	34.101	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.734	75	133463	109.945	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.372	105	2901	0.236	ug/l	98
93) 1,2,4-Trichlorobenzene	15.260	180	610	2.855	ug/l #	60
95) Naphthalene	15.504	128	6602	3.673	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.703	180	1337	3.046	ug/l #	19

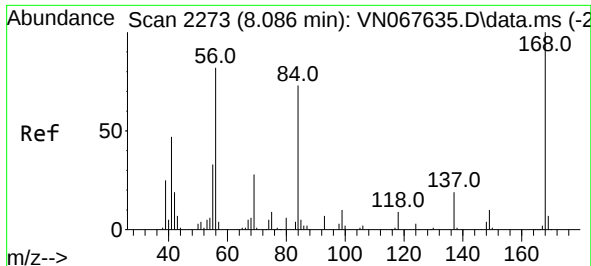
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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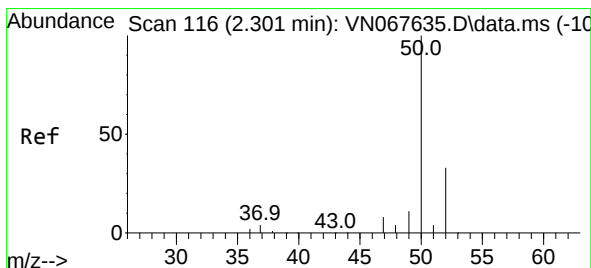
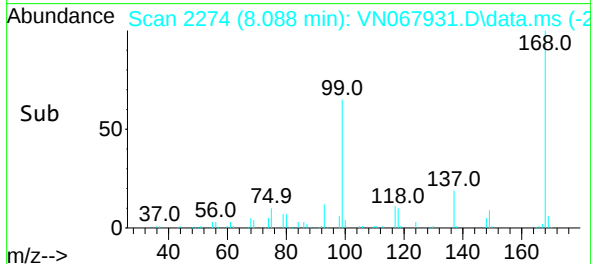
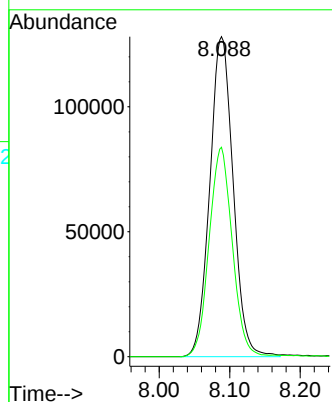
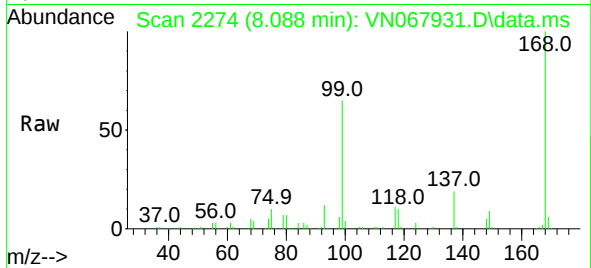




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.002 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

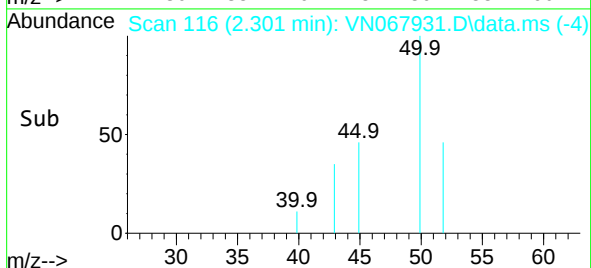
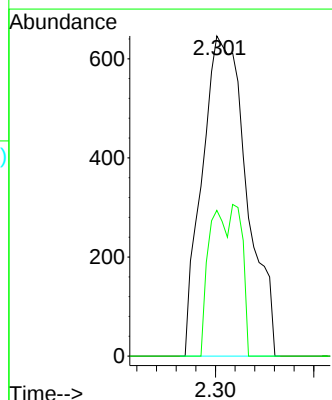
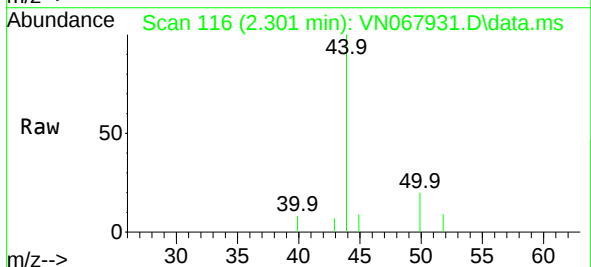
Instrument :
MSVOA_N
ClientSampleId :

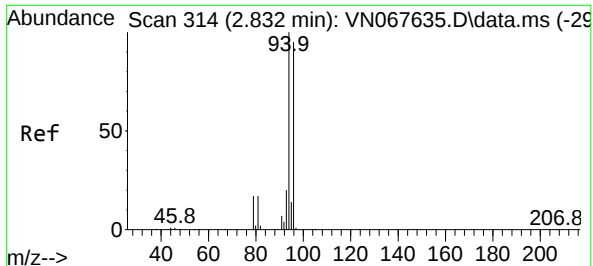
Tgt Ion:168 Resp: 294894
Ion Ratio Lower Upper
168 100
99 65.4 62.9 94.3



#3
Chloromethane
Concen: 0.256 ug/l
RT: 2.301 min Scan# 116
Delta R.T. -0.000 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

Tgt Ion: 50 Resp: 1015
Ion Ratio Lower Upper
50 100
52 45.5 25.6 38.4#

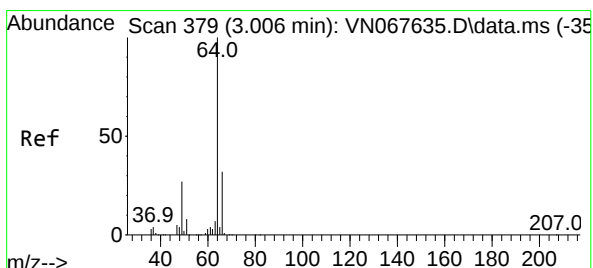
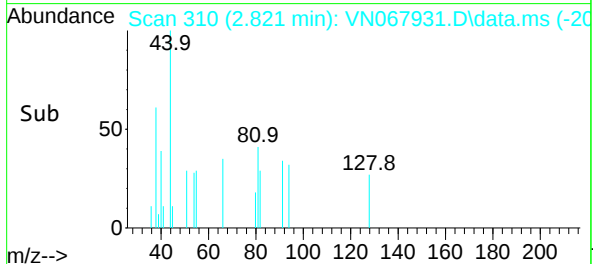
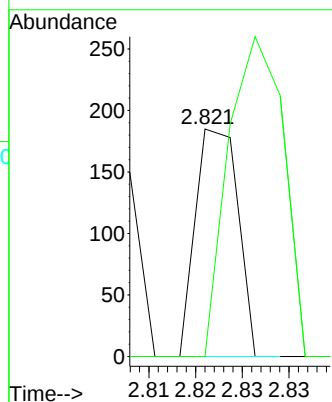
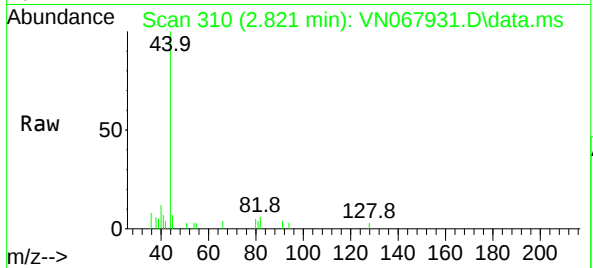




#5
Bromomethane
Concen: Below Cal
RT: 2.821 min Scan# 310
Delta R.T. -0.011 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

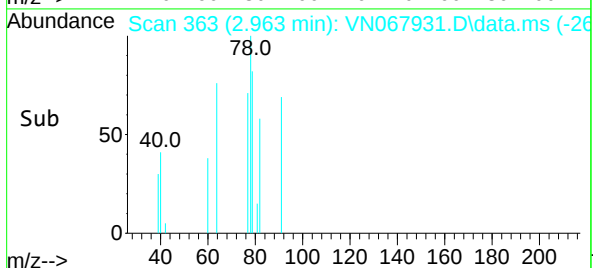
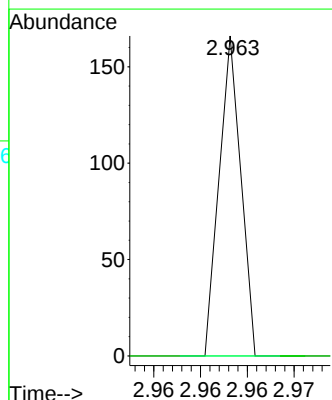
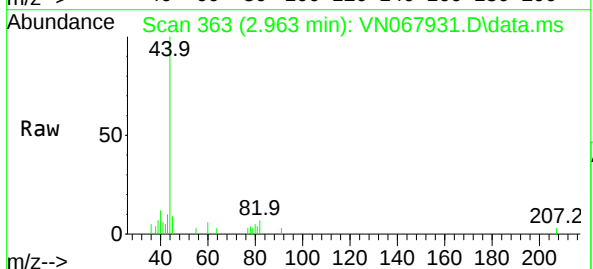
Instrument :
MSVOA_N
ClientSampleId :

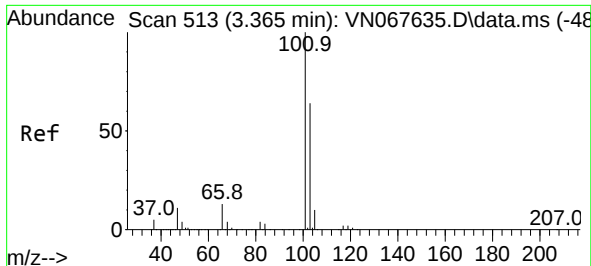
Tgt Ion: 94 Resp: 58
Ion Ratio Lower Upper
94 100
96 0.0 73.7 110.5#



#6
Chloroethane
Concen: Below Cal
RT: 2.963 min Scan# 363
Delta R.T. -0.043 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

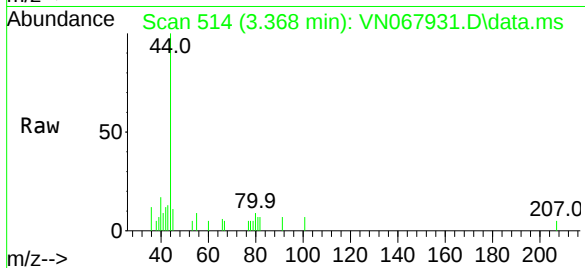
Tgt Ion: 64 Resp: 27
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#



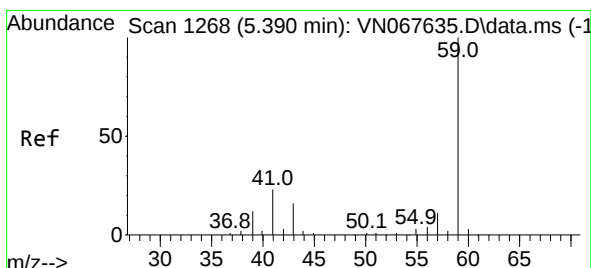
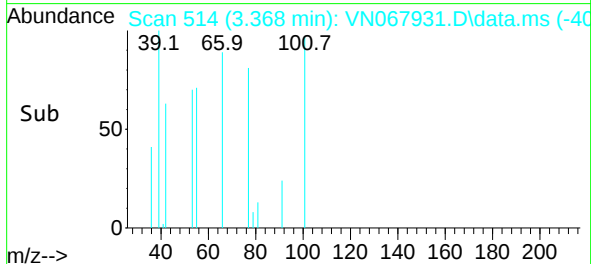
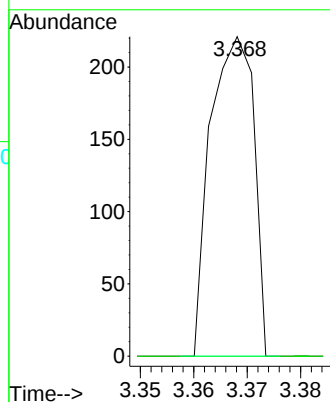


#7
 Trichlorofluoromethane
 Concen: Below Cal
 RT: 3.368 min Scan# 514
 Delta R.T. 0.003 min
 Lab File: VN067931.D
 Acq: 27 Jul 2021 16:23

Instrument :
 MSVOA_N
 ClientSampled :

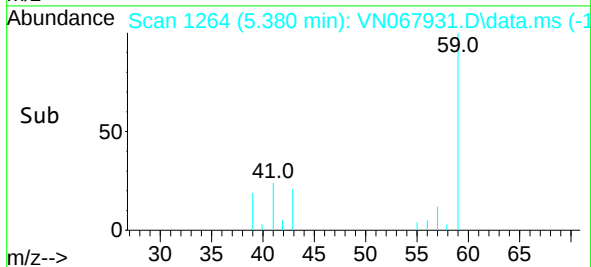
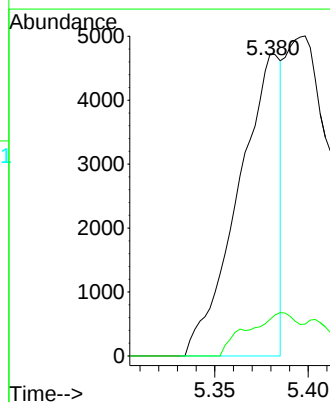
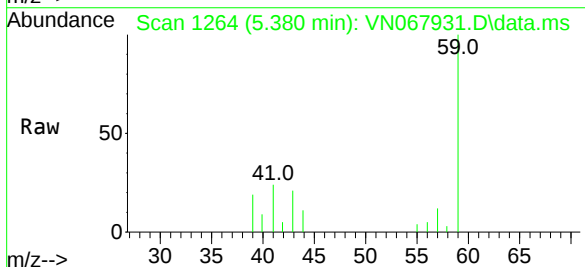


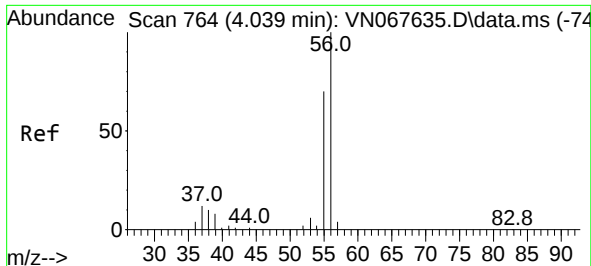
Tgt Ion:101 Resp: 125
 Ion Ratio Lower Upper
 101 100
 103 0.0 51.2 76.8#



#11
 Tert butyl alcohol
 Concen: 11.623 ug/l
 RT: 5.380 min Scan# 1264
 Delta R.T. -0.010 min
 Lab File: VN067931.D
 Acq: 27 Jul 2021 16:23

Tgt Ion: 59 Resp: 7444
 Ion Ratio Lower Upper
 59 100
 57 16.5 8.7 13.1#

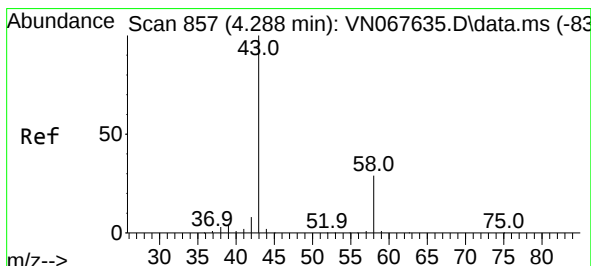
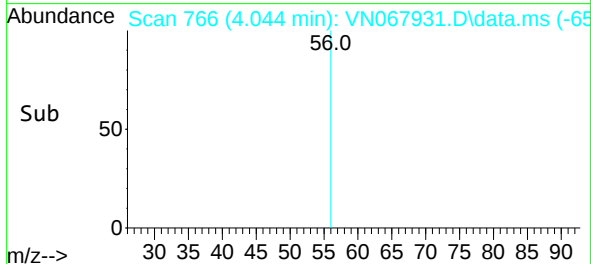
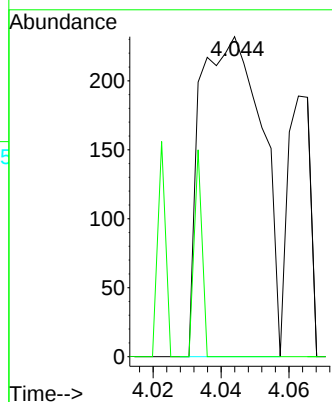
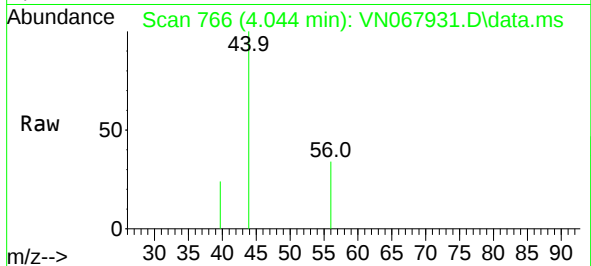




#13
Acrolein
Concen: Below Cal
RT: 4.044 min Scan# 766
Delta R.T. 0.005 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

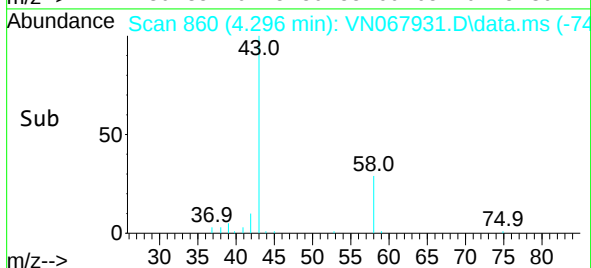
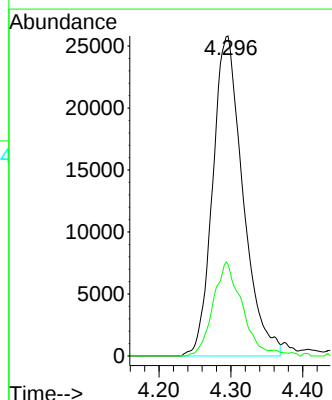
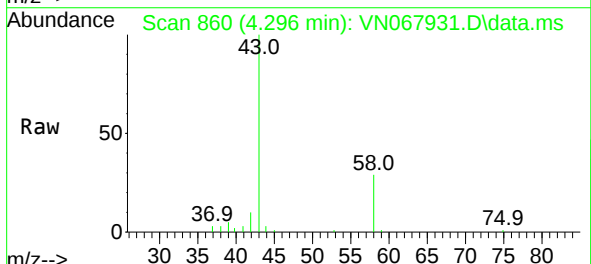
Instrument :
MSVOA_N
ClientSampled :

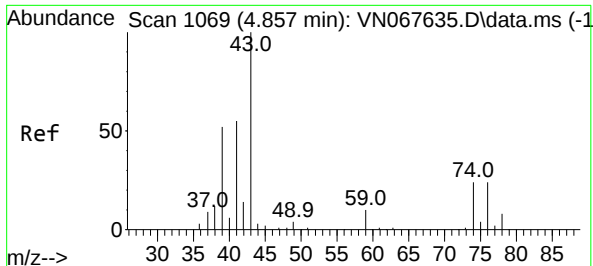
Tgt Ion: 56 Resp: 289
Ion Ratio Lower Upper
56 100
55 8.3 57.4 86.0#



#16
Acetone
Concen: 53.649 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.008 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

Tgt Ion: 43 Resp: 75235
Ion Ratio Lower Upper
43 100
58 28.6 21.2 31.8





#18

Methyl Acetate

Concen: 0.703 ug/l

RT: 4.870 min Scan# 1074

Delta R.T. 0.013 min

Lab File: VN067931.D

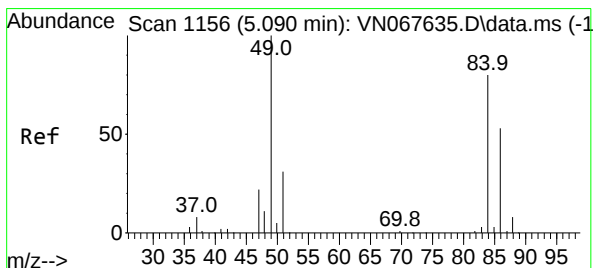
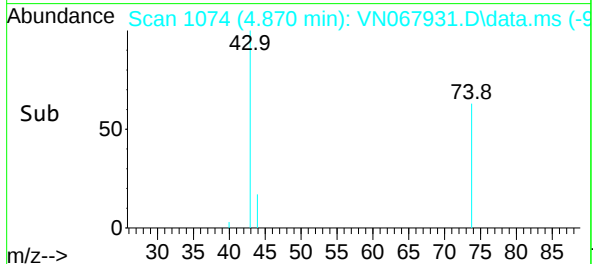
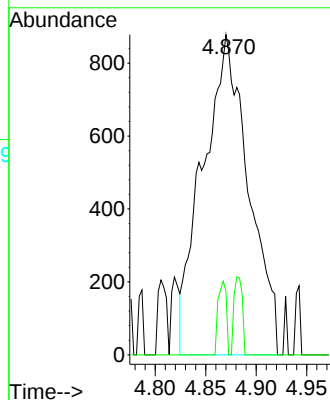
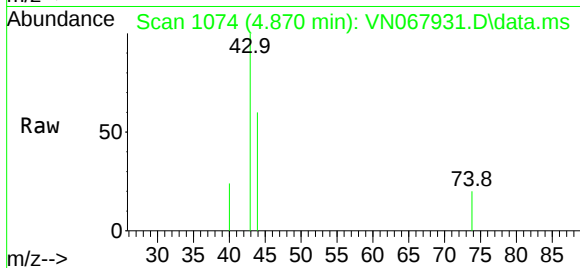
Acq: 27 Jul 2021 16:23

Tgt Ion: 43 Resp: 2771

Ion Ratio Lower Upper

43 100

74 4.1 17.4 26.0#



#20

Methylene Chloride

Concen: Below Cal

RT: 5.085 min Scan# 1154

Delta R.T. -0.005 min

Lab File: VN067931.D

Acq: 27 Jul 2021 16:23

Tgt Ion: 84 Resp: 486

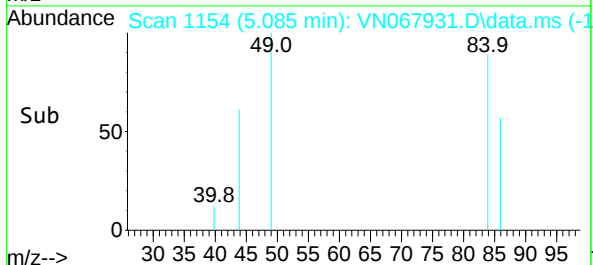
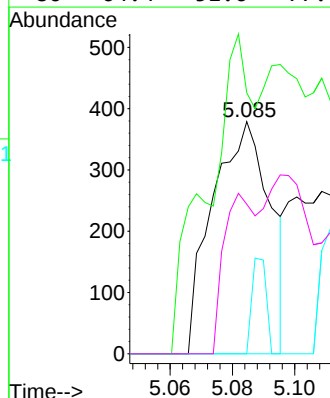
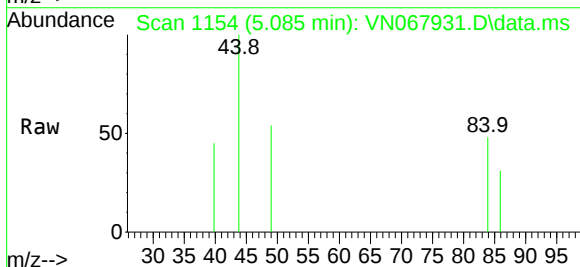
Ion Ratio Lower Upper

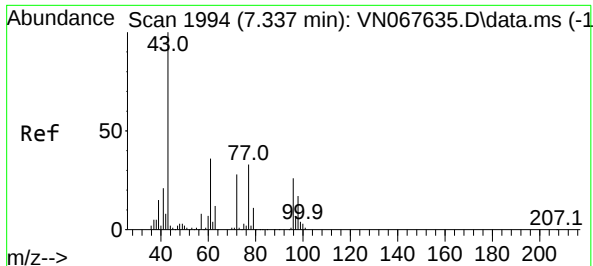
84 100

49 64.1 110.9 166.3#

51 0.0 32.6 49.0#

86 64.4 51.6 77.4

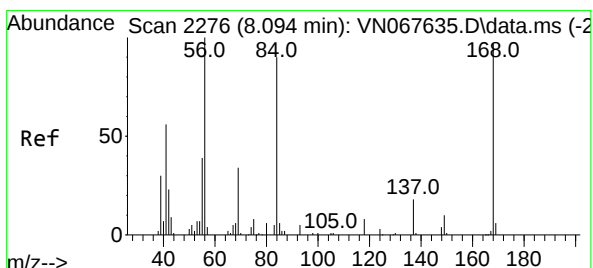
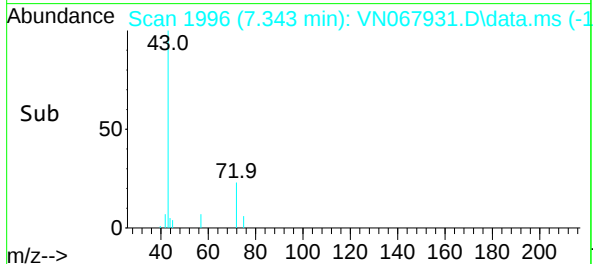
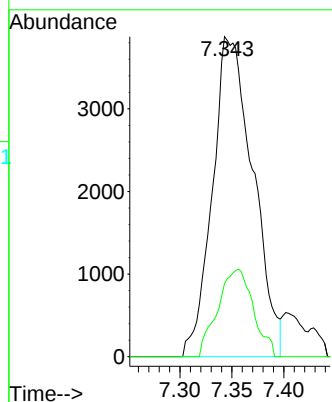
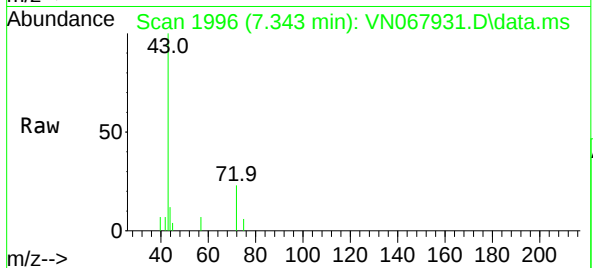




#25
2-Butanone
Concen: 4.518 ug/l
RT: 7.343 min Scan# 1996
Delta R.T. 0.006 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

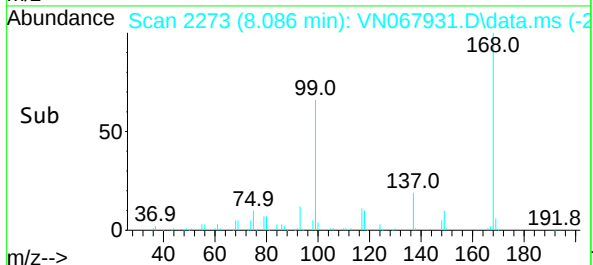
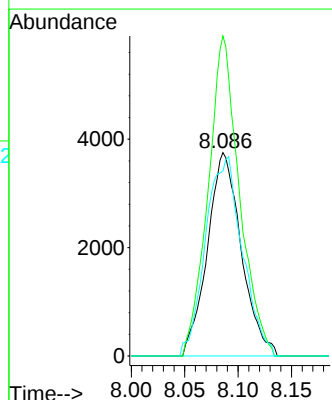
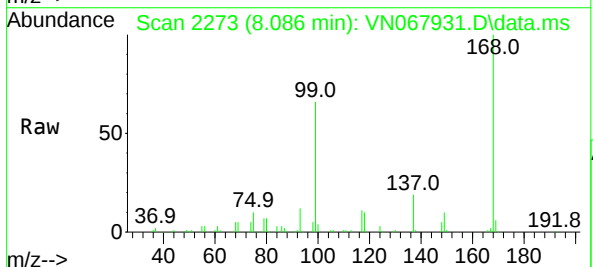
Instrument :
MSVOA_N
ClientSampled :

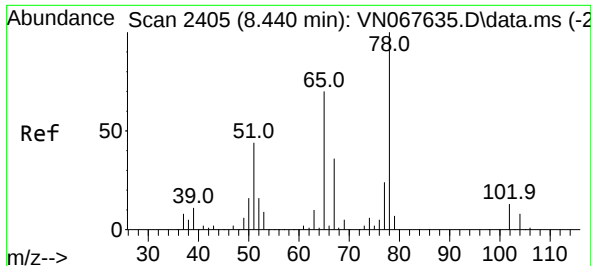
Tgt Ion: 43 Resp: 10522
Ion Ratio Lower Upper
43 100
72 22.8 19.7 29.5



#31
Cyclohexane
Concen: 1.323 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.008 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

Tgt Ion: 56 Resp: 8269
Ion Ratio Lower Upper
56 100
69 157.4 27.3 40.9#
84 91.0 64.9 97.3

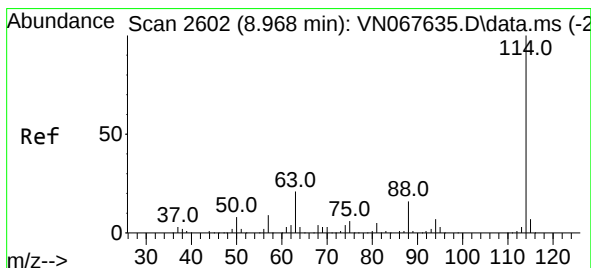
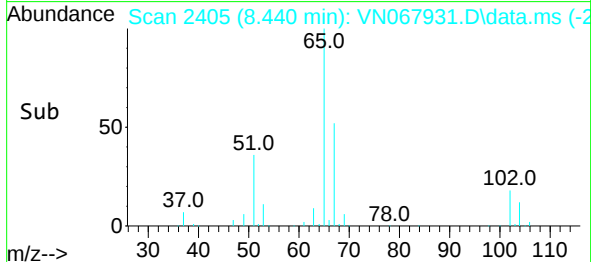
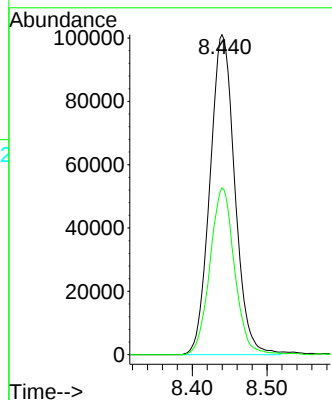
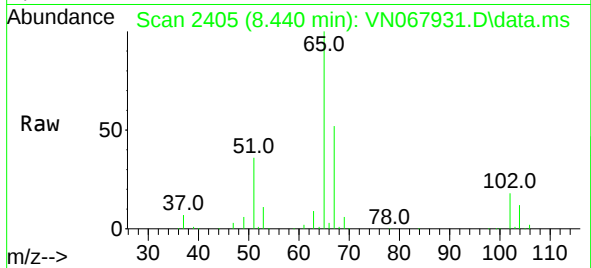




#33
 1,2-Dichloroethane-d4
 Concen: 52.369 ug/l
 RT: 8.440 min Scan# 2405
 Delta R.T. -0.000 min
 Lab File: VN067931.D
 Acq: 27 Jul 2021 16:23

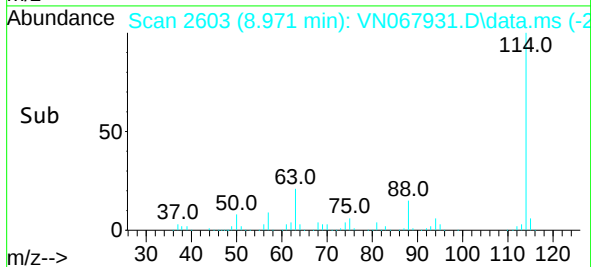
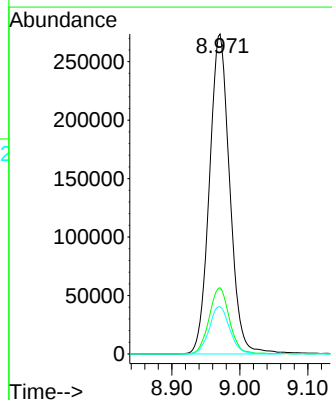
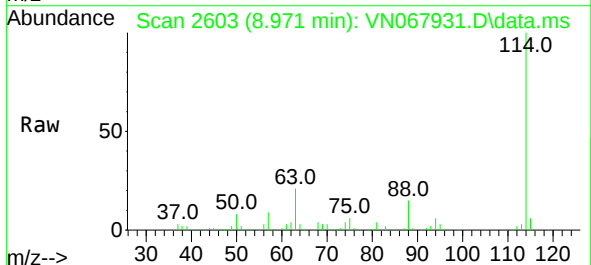
Instrument :
 MSVOA_N
 ClientSampled :

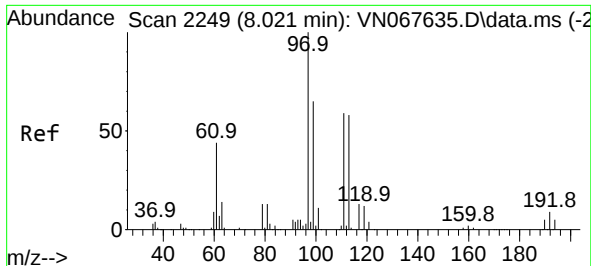
Tgt Ion: 65 Resp: 233394
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 98.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.971 min Scan# 2603
 Delta R.T. 0.003 min
 Lab File: VN067931.D
 Acq: 27 Jul 2021 16:23

Tgt Ion: 114 Resp: 567531
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 49.0
 88 14.7 0.0 36.6

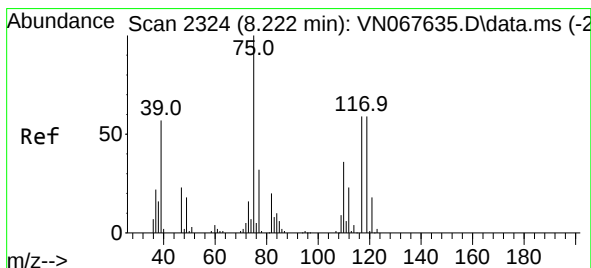
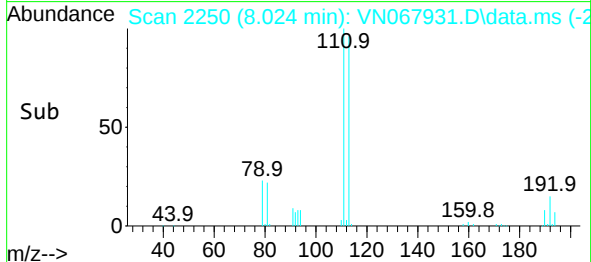
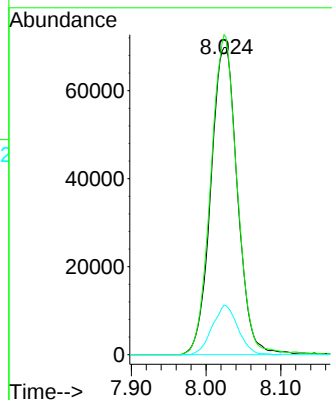
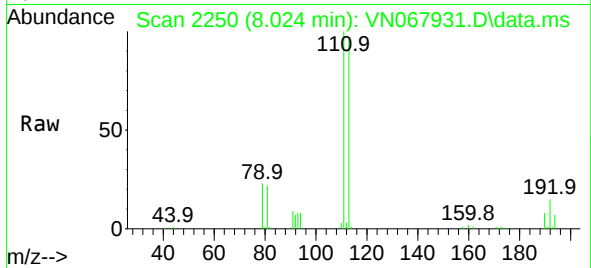




#35
Dibromofluoromethane
Concen: 50.415 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

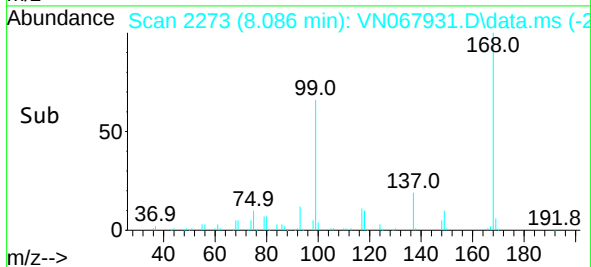
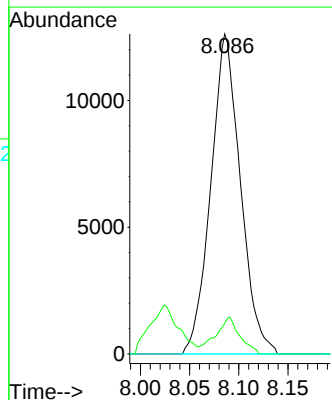
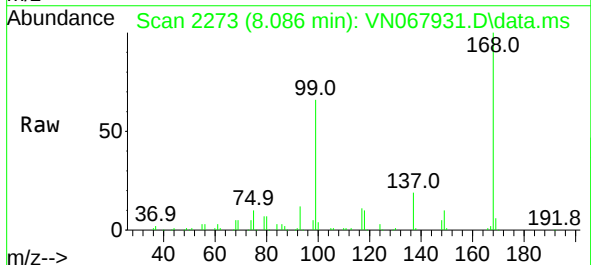
Instrument :
MSVOA_N
ClientSampled :

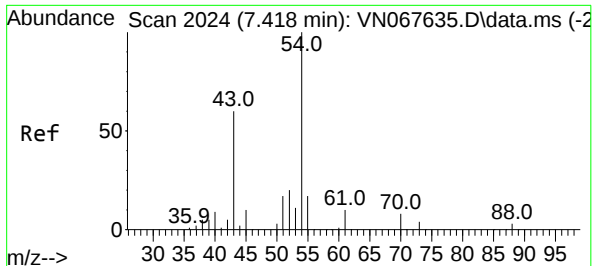
Tgt Ion:113 Resp: 172867
Ion Ratio Lower Upper
113 100
111 102.8 83.8 125.8
192 15.6 13.4 20.0



#36
1,1-Dichloropropene
Concen: 5.014 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.136 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

Tgt Ion: 75 Resp: 26431
Ion Ratio Lower Upper
75 100
110 9.5 15.7 47.0#
77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 2.060 ug/l

RT: 7.343 min Scan# 1996

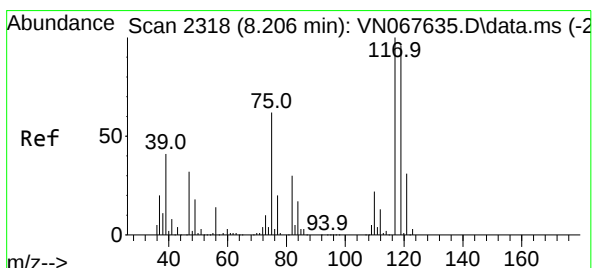
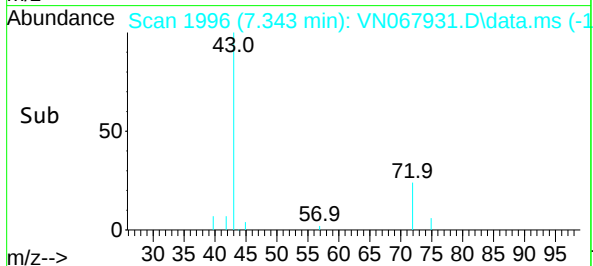
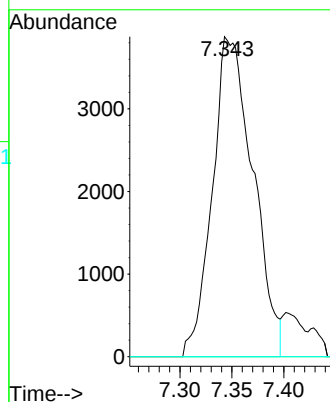
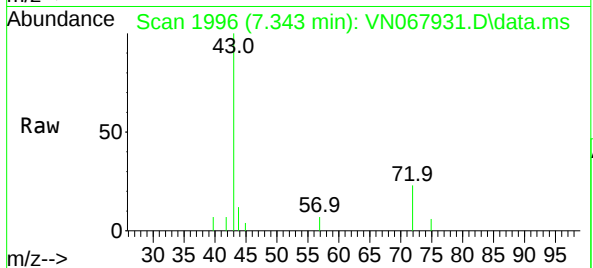
Delta R.T. -0.075 min

Lab File: VN067931.D

Acq: 27 Jul 2021 16:23

Tgt Ion:	43	Resp:	10522
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.6	16.0#
70	0.0	8.1	12.1#

Instrument :
MSVOA_N
ClientSampleId :



#38

Carbon Tetrachloride

Concen: 6.410 ug/l

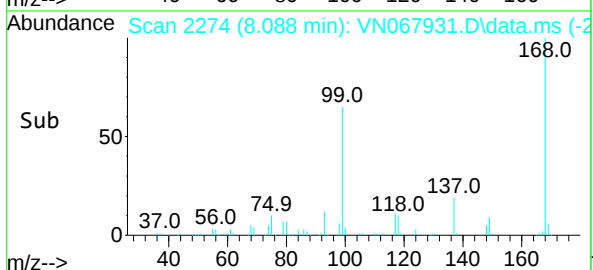
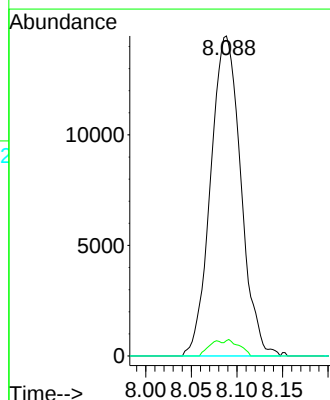
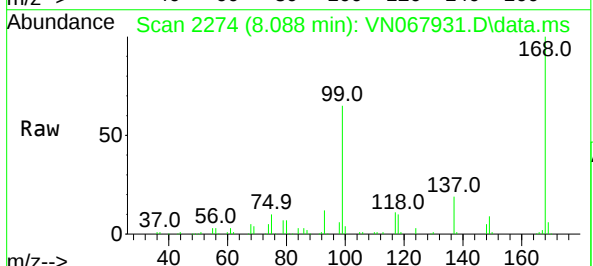
RT: 8.088 min Scan# 2274

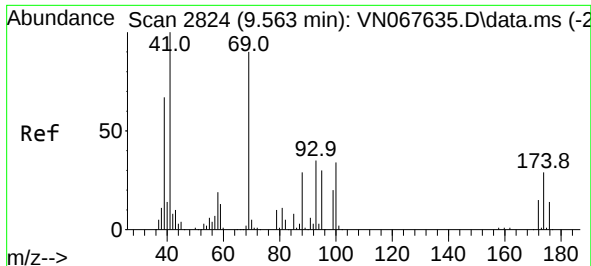
Delta R.T. -0.118 min

Lab File: VN067931.D

Acq: 27 Jul 2021 16:23

Tgt Ion:	117	Resp:	33333
Ion	Ratio	Lower	Upper
117	100		
119	4.8	75.4	113.2#
121	0.0	23.5	35.3#

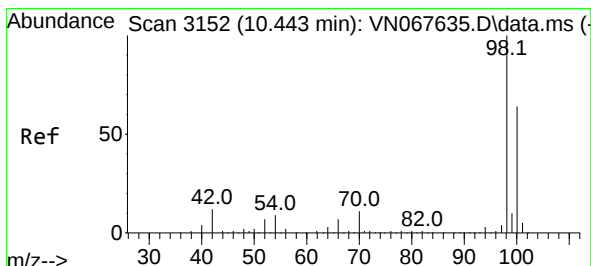
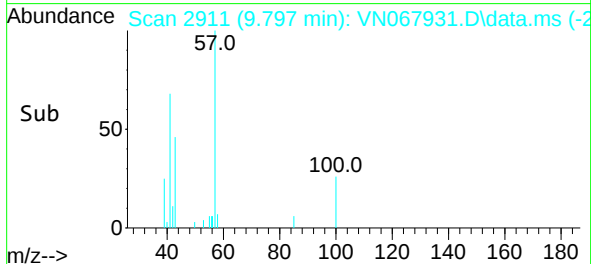
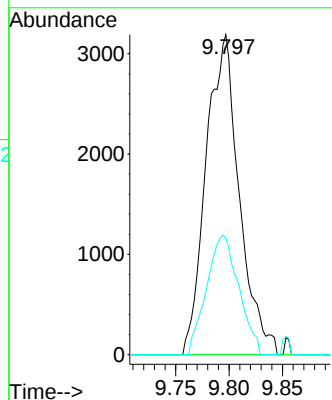
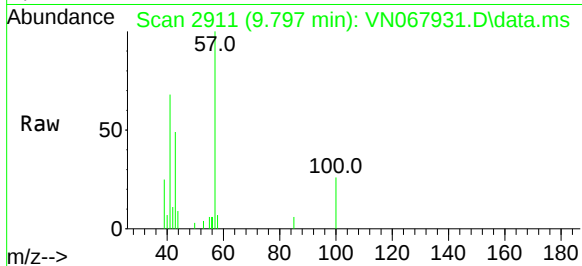




#48
Methyl methacrylate
Concen: 1.732 ug/l
RT: 9.797 min Scan# 2911
Delta R.T. 0.234 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

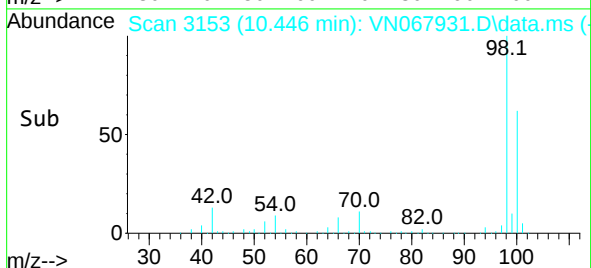
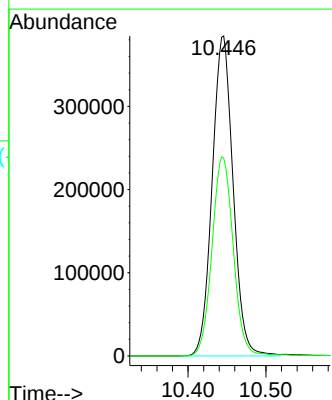
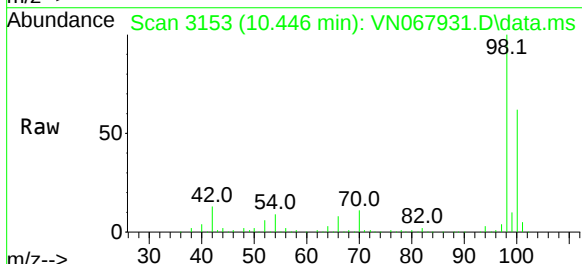
Instrument :
MSVOA_N
ClientSampled :

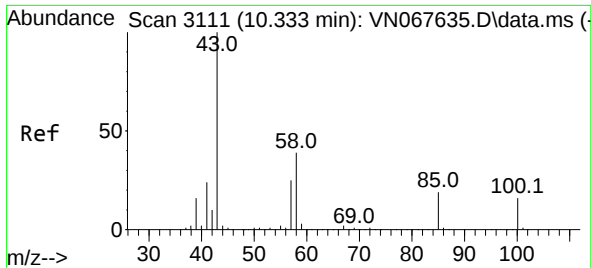
Tgt Ion: 41 Resp: 6884
Ion Ratio Lower Upper
41 100
69 0.0 64.6 96.8#
39 36.3 53.3 79.9#



#50
Toluene-d8
Concen: 49.934 ug/l
RT: 10.446 min Scan# 3153
Delta R.T. 0.003 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

Tgt Ion: 98 Resp: 716672
Ion Ratio Lower Upper
98 100
100 63.4 51.7 77.5

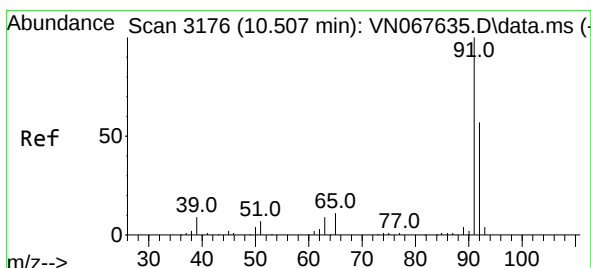
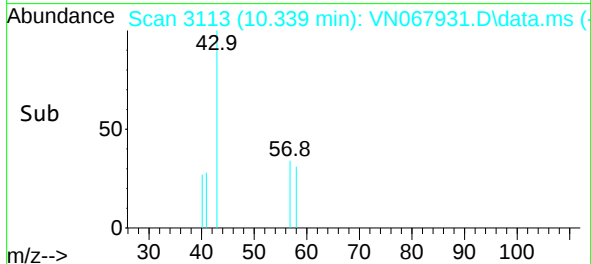
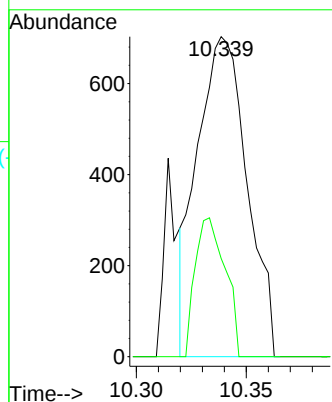
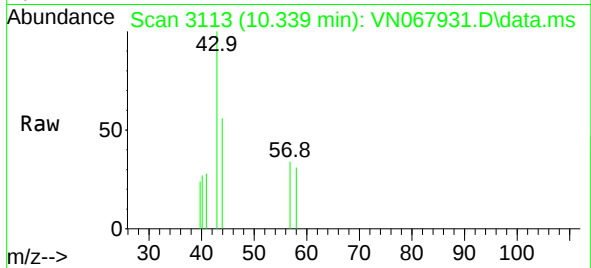




#51
4-Methyl-2-Pentanone
Concen: 0.201 ug/l
RT: 10.339 min Scan# 3113
Delta R.T. 0.006 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

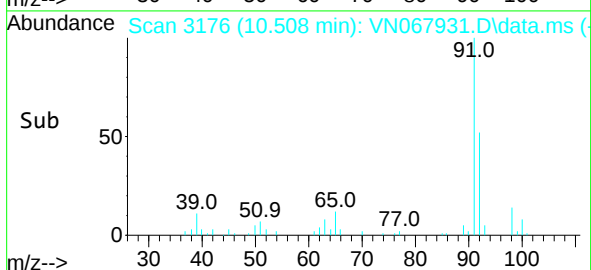
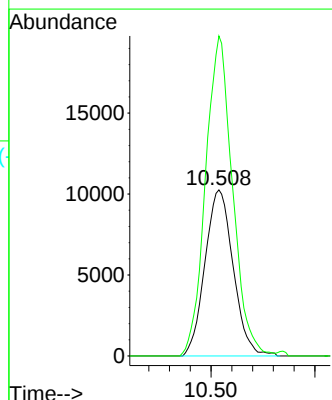
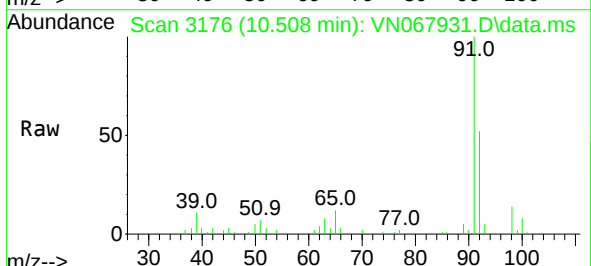
Instrument :
MSVOA_N
ClientSampled :

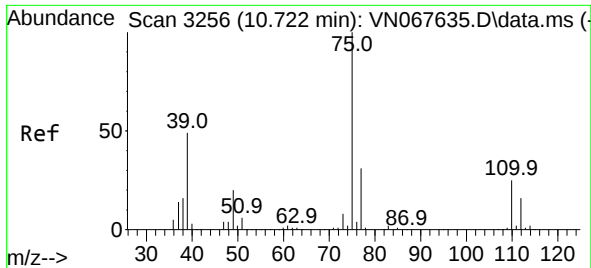
Tgt Ion: 43 Resp: 1112
Ion Ratio Lower Upper
43 100
58 26.1 28.6 43.0#



#52
Toluene
Concen: 1.876 ug/l
RT: 10.508 min Scan# 3176
Delta R.T. 0.001 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

Tgt Ion: 92 Resp: 19390
Ion Ratio Lower Upper
92 100
91 183.9 139.6 209.4

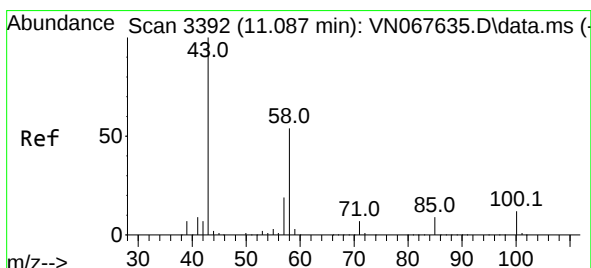
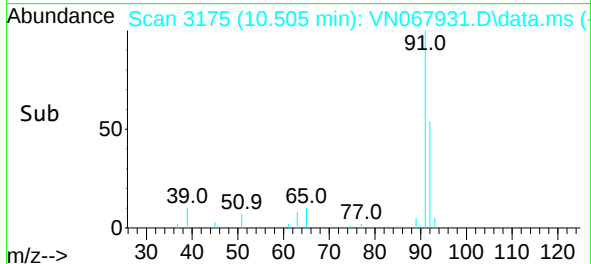
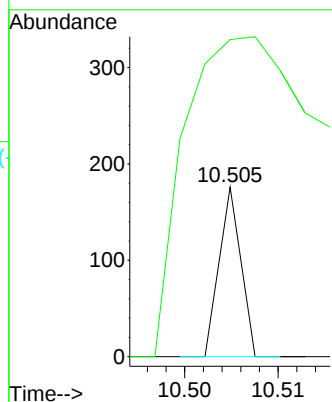
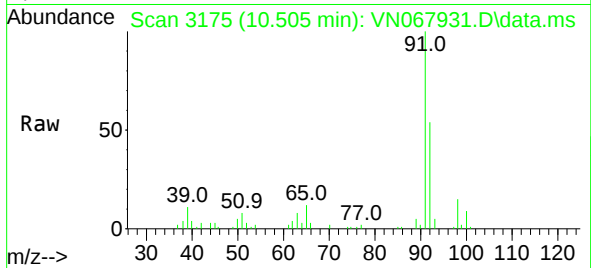




#53
t-1,3-Dichloropropene
Concen: 1.748 ug/l
RT: 10.505 min Scan# 3175
Delta R.T. -0.217 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

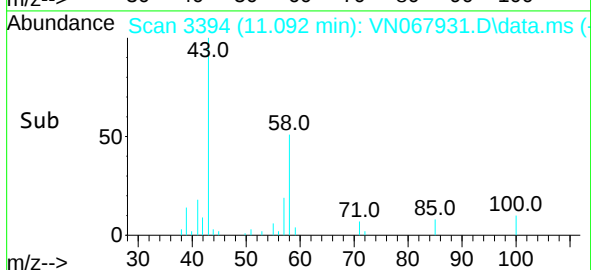
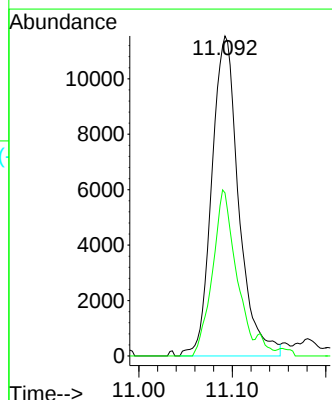
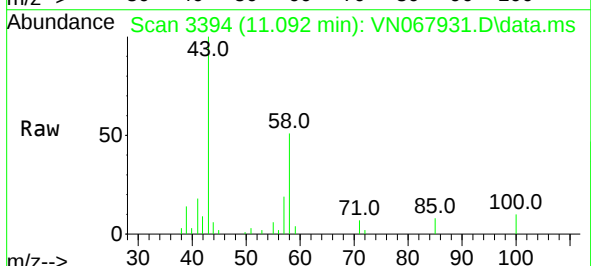
Instrument :
MSVOA_N
ClientSampled :

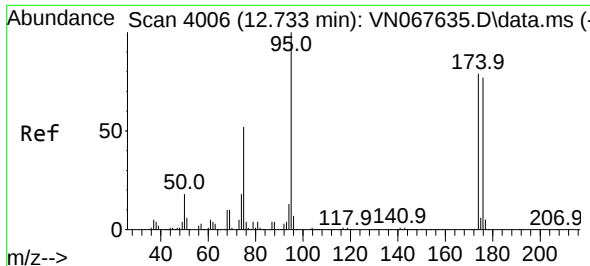
Tgt Ion: 75 Resp: 28
Ion Ratio Lower Upper
75 100
77 58.5 25.1 37.7#



#59
2-Hexanone
Concen: 6.012 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

Tgt Ion: 43 Resp: 23163
Ion Ratio Lower Upper
43 100
58 45.0 24.7 74.1

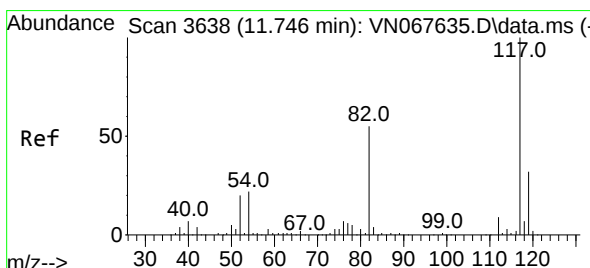
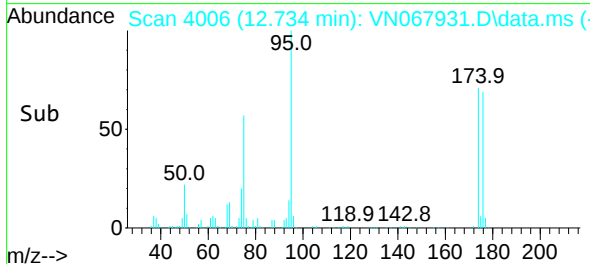
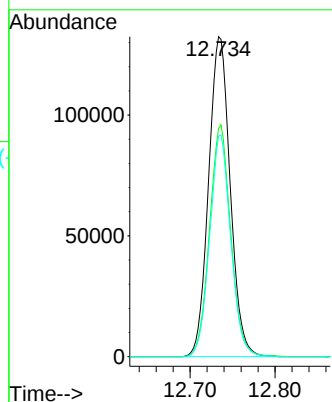
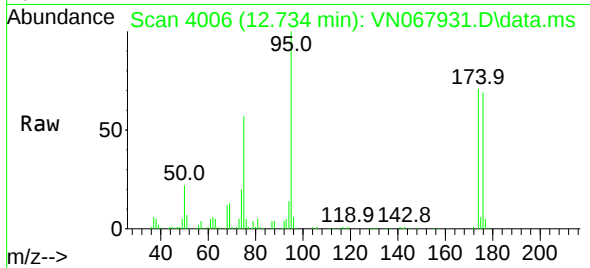




#62
4-Bromofluorobenzene
Concen: 46.118 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.001 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

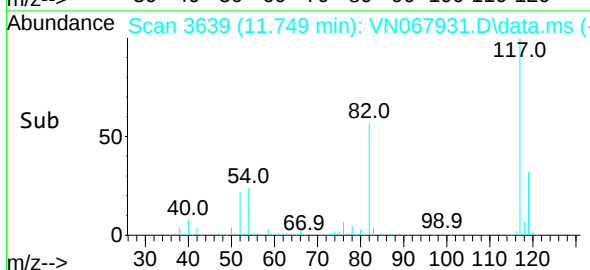
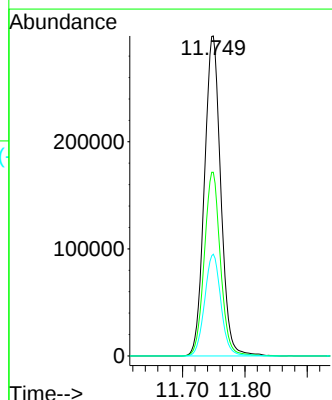
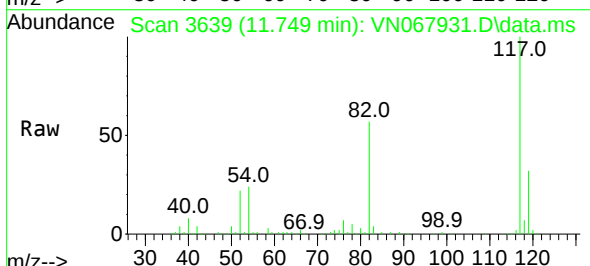
Instrument :
MSVOA_N
ClientSampleId :

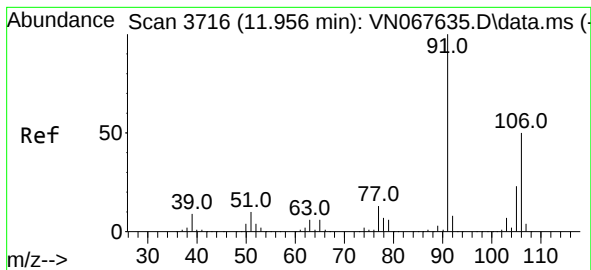
Tgt Ion: 95 Resp: 233821
Ion Ratio Lower Upper
95 100
174 71.3 0.0 122.0
176 67.7 0.0 117.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.003 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

Tgt Ion: 117 Resp: 544794
Ion Ratio Lower Upper
117 100
82 57.4 53.1 79.7
119 31.8 25.5 38.3

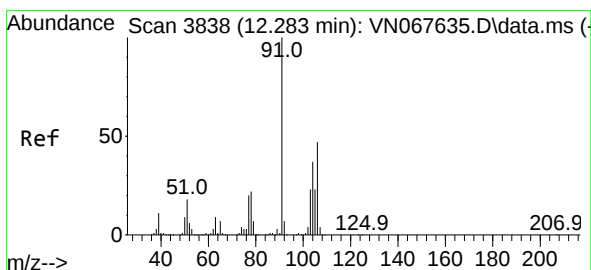
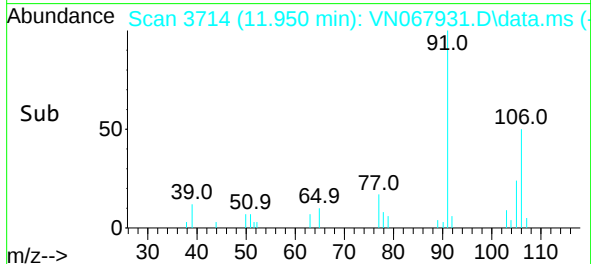
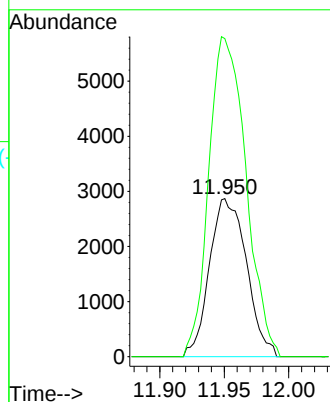
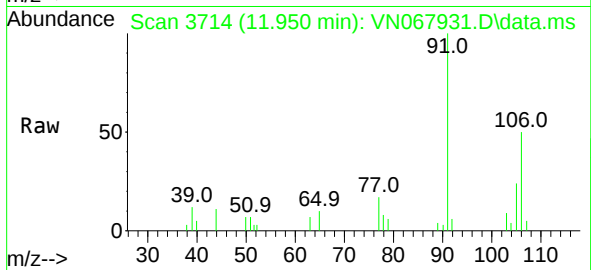




#68
m/p-Xylenes
Concen: 0.743 ug/l
RT: 11.950 min Scan# 3714
Delta R.T. -0.006 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

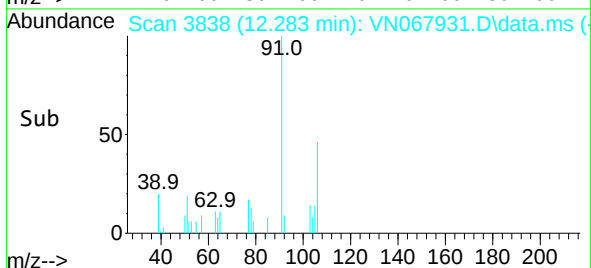
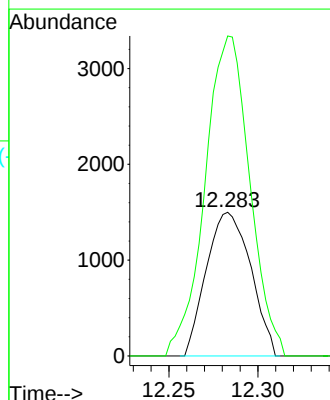
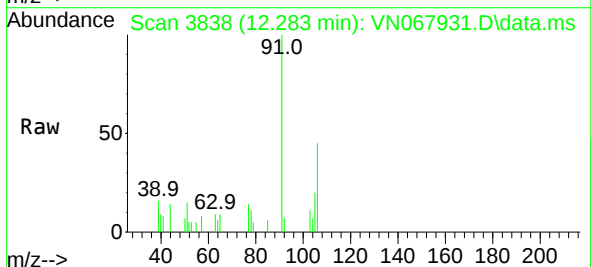
Instrument :
MSVOA_N
ClientSampleId :

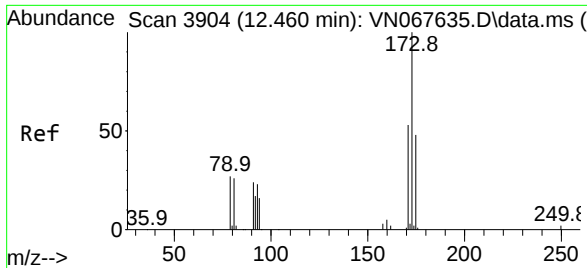
Tgt Ion:106 Resp: 5724
Ion Ratio Lower Upper
106 100
91 203.4 180.6 270.8



#69
o-Xylene
Concen: 0.343 ug/l
RT: 12.283 min Scan# 3838
Delta R.T. -0.000 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

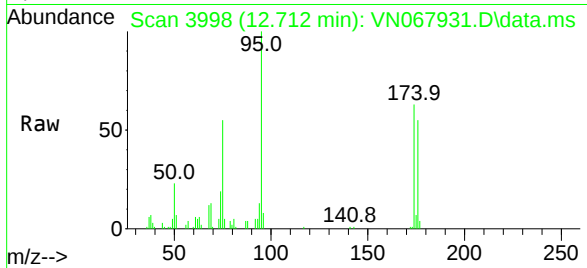
Tgt Ion:106 Resp: 2598
Ion Ratio Lower Upper
106 100
91 224.1 118.3 354.9



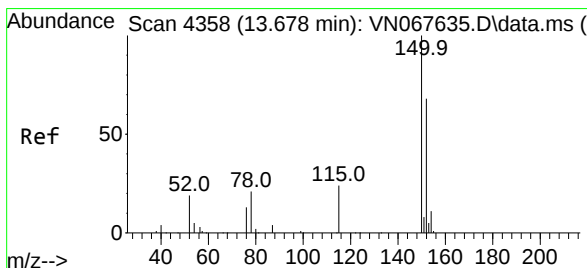
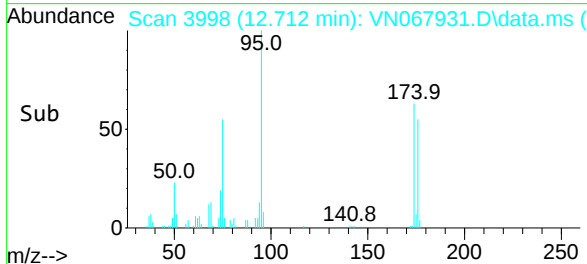
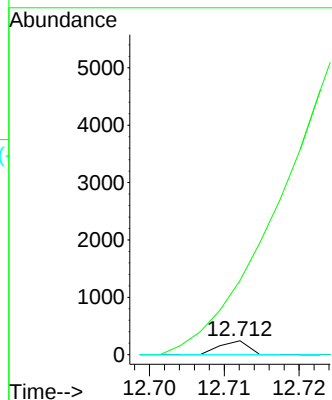


#71
Bromoform
Concen: 3.193 ug/l
RT: 12.712 min Scan# 3998
Delta R.T. 0.252 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

Instrument :
MSVOA_N
ClientSampleId :

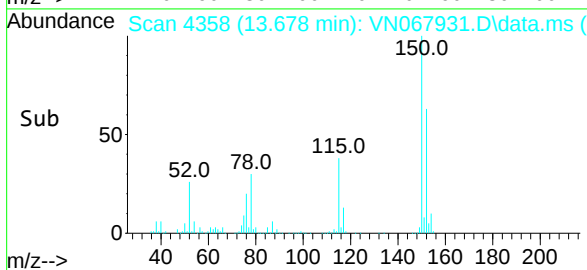
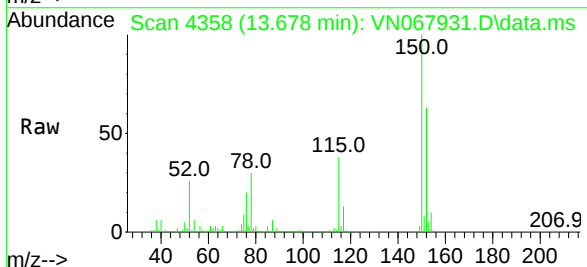
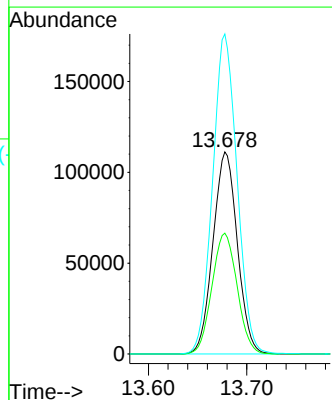


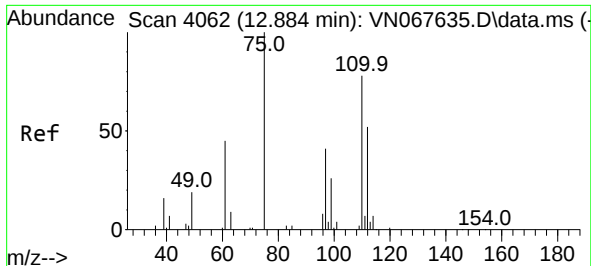
Tgt Ion:173 Resp: 64
Ion Ratio Lower Upper
173 100
175 0.0 23.9 71.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.000 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

Tgt Ion:152 Resp: 191646
Ion Ratio Lower Upper
152 100
115 61.7 36.1 108.5
150 159.0 0.0 351.8

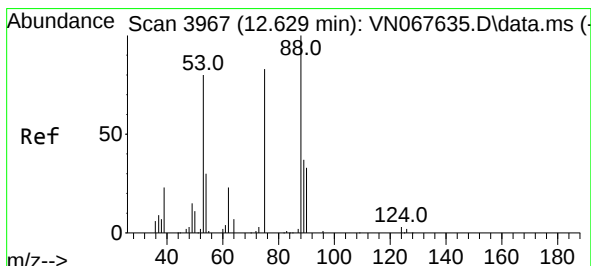
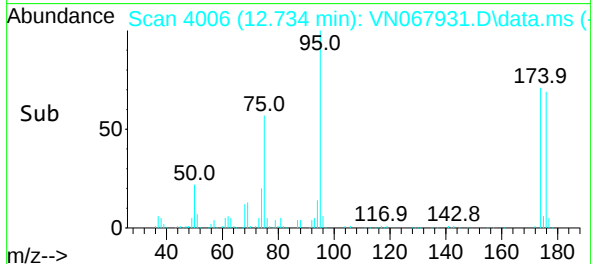
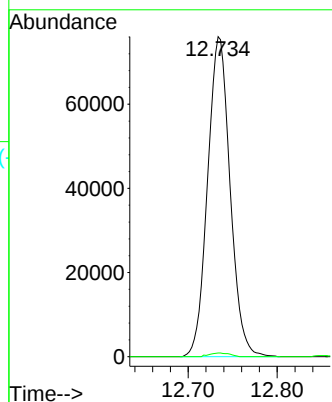
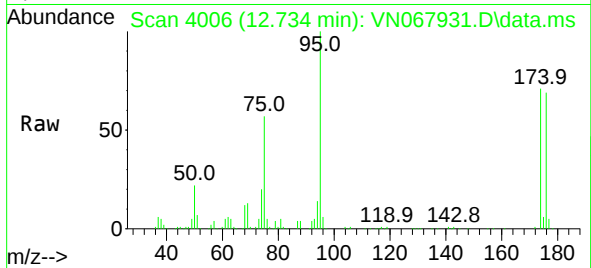




#76
1,2,3-Trichloropropane
Concen: 34.101 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.150 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

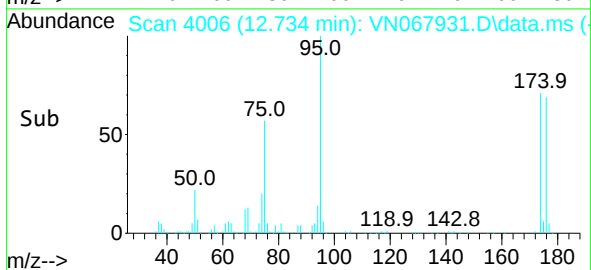
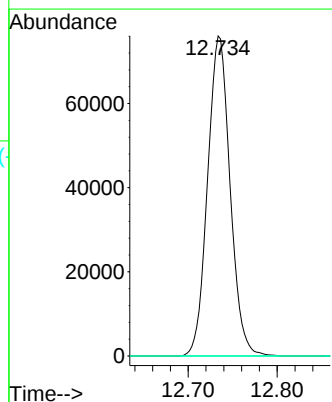
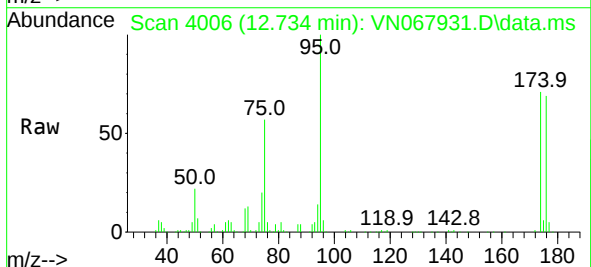
Instrument :
MSVOA_N
ClientSampleId :

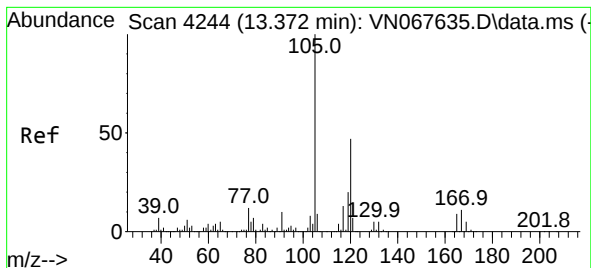
Tgt Ion: 75 Resp: 133463
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 109.945 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

Tgt Ion: 75 Resp: 133463
Ion Ratio Lower Upper
75 100
53 0.0 87.6 131.4#
89 0.0 37.8 56.8#

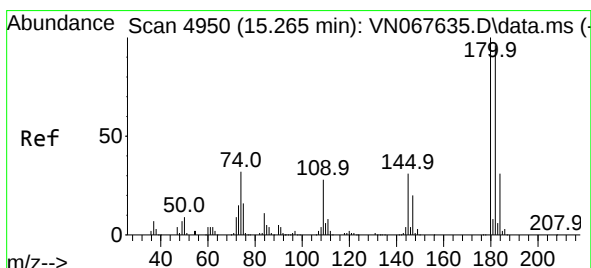
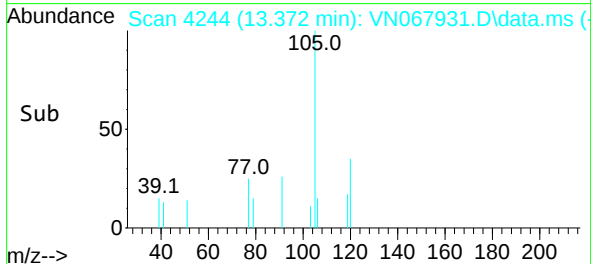
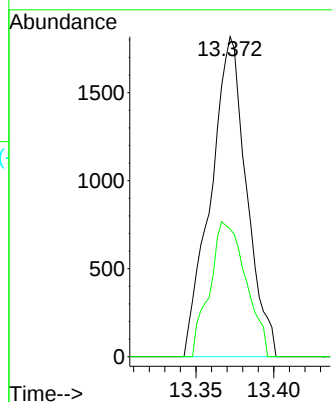
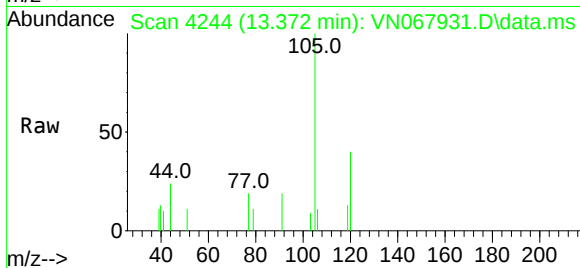




#84
1,2,4-Trimethylbenzene
Concen: 0.236 ug/l
RT: 13.372 min Scan# 4244
Delta R.T. -0.000 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

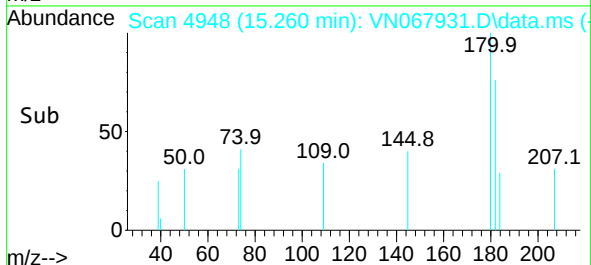
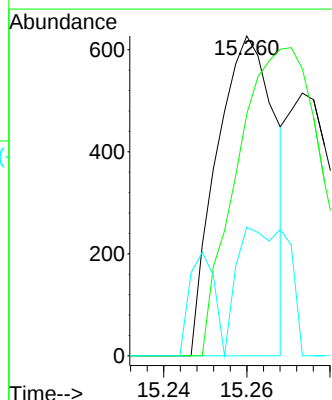
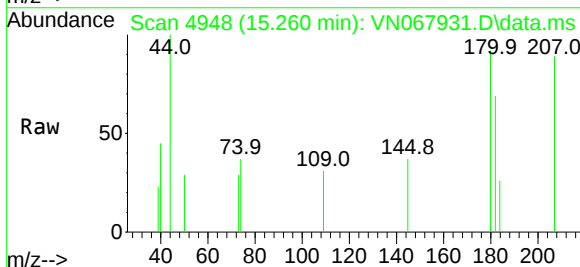
Instrument :
MSVOA_N
ClientSampled :

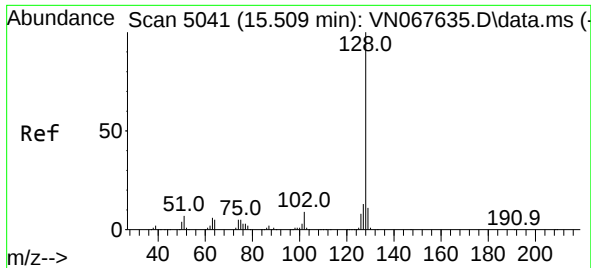
Tgt Ion:105 Resp: 2901
Ion Ratio Lower Upper
105 100
120 42.5 20.6 61.8



#93
1,2,4-Trichlorobenzene
Concen: 2.855 ug/l
RT: 15.260 min Scan# 4948
Delta R.T. -0.005 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

Tgt Ion:180 Resp: 610
Ion Ratio Lower Upper
180 100
182 146.4 47.5 142.5#
145 35.9 17.2 51.6

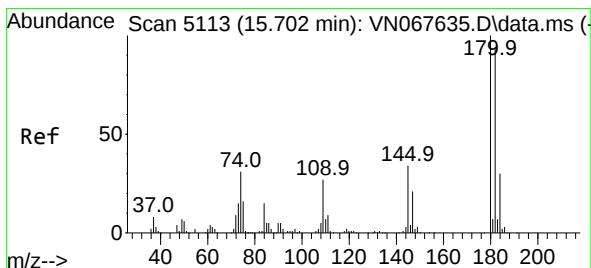
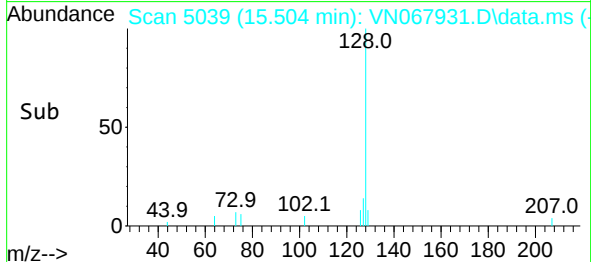
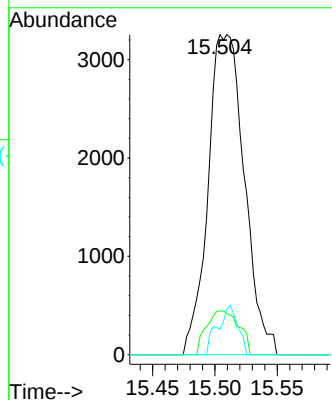
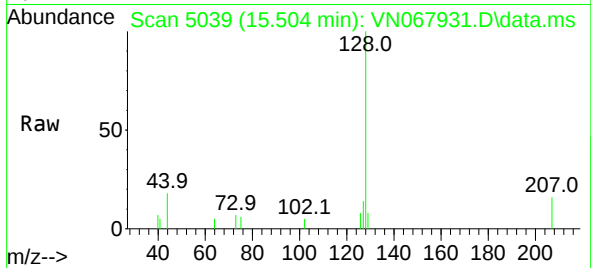




#95
Naphthalene
Concen: 3.673 ug/l
RT: 15.504 min Scan# 5039
Delta R.T. -0.005 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128	Resp:	6602
Ion Ratio	Lower	Upper
128	100	
127	12.2	10.6 15.8
129	8.5	8.6 12.8#



#96
1,2,3-Trichlorobenzene
Concen: 3.046 ug/l
RT: 15.703 min Scan# 5113
Delta R.T. 0.001 min
Lab File: VN067931.D
Acq: 27 Jul 2021 16:23

Tgt Ion:180	Resp:	1337
Ion Ratio	Lower	Upper
180	100	
182	0.0	47.8 143.3#
145	14.0	18.2 54.6#

