

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101421\
 Data File : VN068927.D
 Acq On : 14 Oct 2021 16:15
 Operator : JC/MD
 Sample : M4192-12
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 14 22:46:54 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N101221W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 13 05:44:40 2021
 Response via : Initial Calibration

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

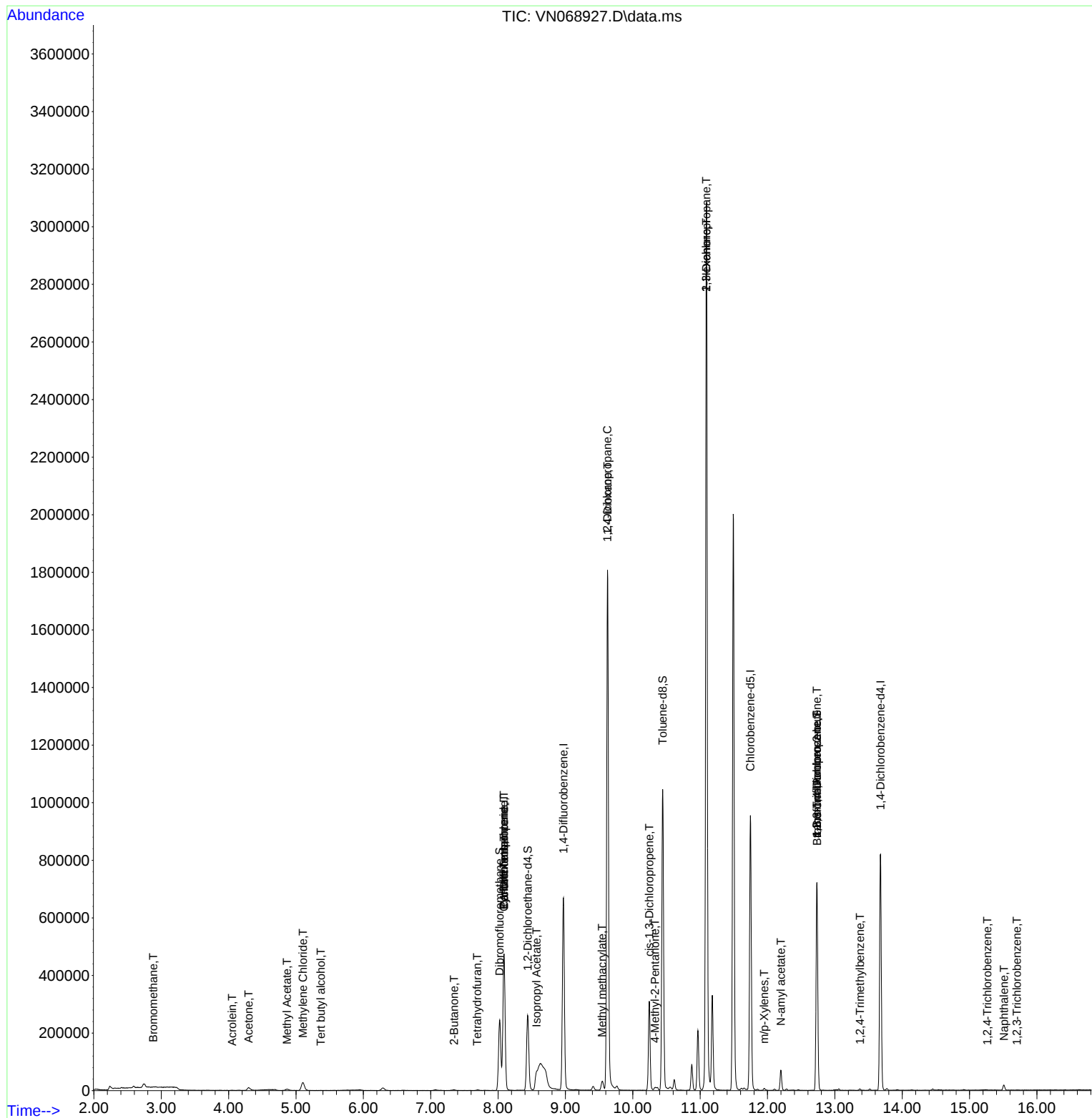
Internal Standards						
1) Pentafluorobenzene	8.088	168	372116	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	609238	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	569414	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	225424	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	220171	44.876	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	89.760%		
35) Dibromofluoromethane	8.024	113	181628	51.241	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	102.480%		
50) Toluene-d8	10.443	98	746051	52.604	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	105.200%		
62) 4-Bromofluorobenzene	12.733	95	259772	48.547	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	97.100%		
Target Compounds						Qvalue
5) Bromomethane	2.880	94	813	0.320	ug/l	92
11) Tert butyl alcohol	5.366	59	215	0.240	ug/l #	72
13) Acrolein	4.052	56	113	0.285	ug/l #	1
16) Acetone	4.296	43	18679	10.202	ug/l	96
18) Methyl Acetate	4.867	43	10751	1.548	ug/l #	73
20) Methylene Chloride	5.103	84	23100	5.482	ug/l	95
25) 2-Butanone	7.348	43	5087	1.837	ug/l	96
29) Tetrahydrofuran	7.689	42	766	0.427	ug/l #	44
31) Cyclohexane	8.086	56	7760	1.017	ug/l #	1
36) 1,1-Dichloropropene	8.088	75	28376	5.453	ug/l #	49
38) Carbon Tetrachloride	8.088	117	37396	6.543	ug/l #	16
43) Isopropyl Acetate	8.571	43	60882	6.420	ug/l #	79
45) 1,2-Dichloropropane	9.622	63	2234	0.543	ug/l #	43
48) Methyl methacrylate	9.545	41	8021	1.800	ug/l #	13
49) 1,4-Dioxane	9.628	88	217	38.043	ug/l #	1
51) 4-Methyl-2-Pentanone	10.330	43	4020	0.731	ug/l #	43
54) cis-1,3-Dichloropropene	10.245	75	59849	8.731	ug/l #	57
57) 1,3-Dichloropropane	11.092	76	33632	5.074	ug/l #	42
59) 2-Hexanone	11.092	43	478024	121.229	ug/l #	50
68) m/p-Xylenes	11.953	106	2073	0.273	ug/l	88
71) Bromoform	12.736	173	1525	0.451	ug/l #	1
74) N-amyl acetate	12.197	43	22095	3.108	ug/l #	54
76) 1,2,3-Trichloropropane	12.733	75	134568	28.056	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.733	75	134568	67.123	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.374	105	3358	0.223	ug/l	96
93) 1,2,4-Trichlorobenzene	15.265	180	154	2.640	ug/l #	24
95) Naphthalene	15.509	128	17134	5.325	ug/l	100
96) 1,2,3-Trichlorobenzene	15.702	180	118	2.545	ug/l #	84

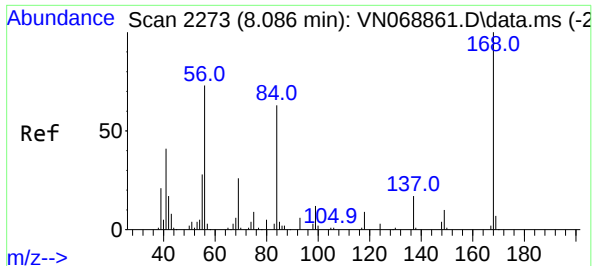
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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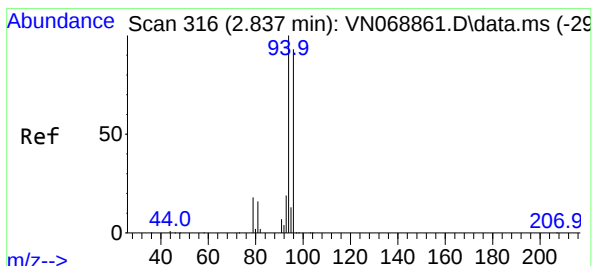
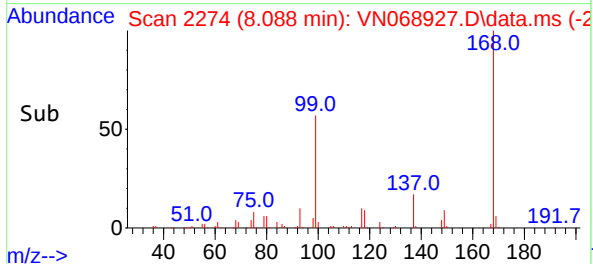
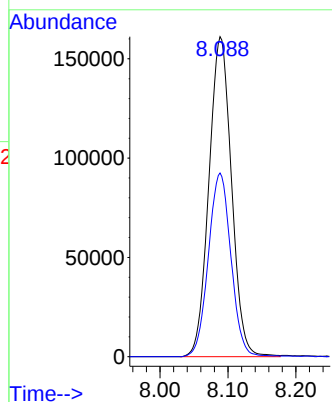
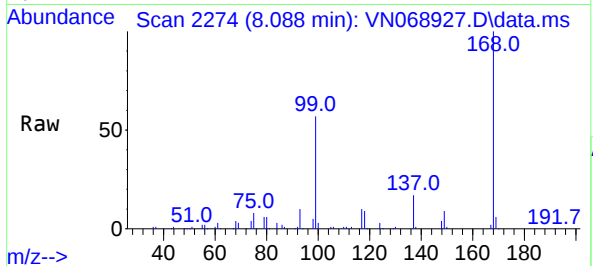




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.002 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

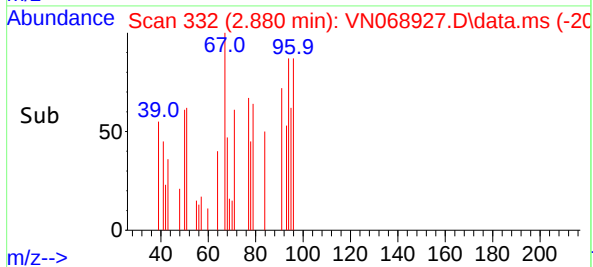
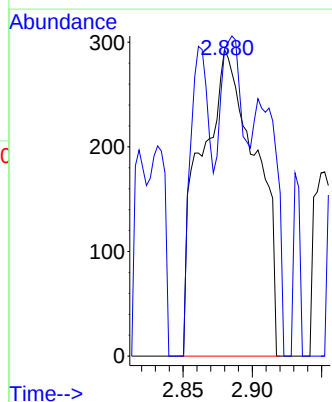
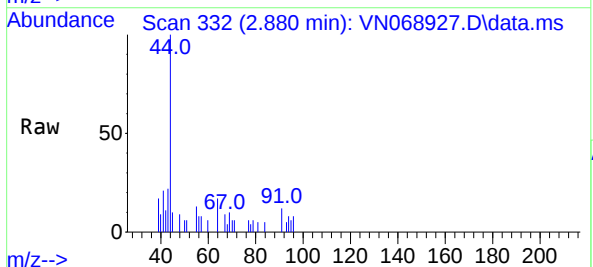
Instrument :
MSVOA_N
ClientSampled :

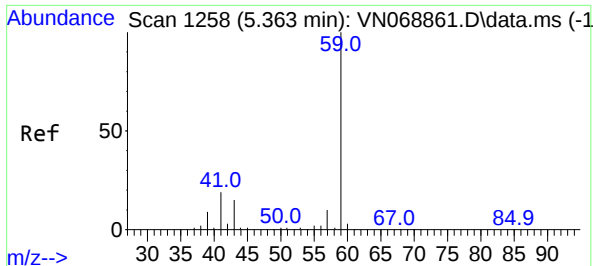
Tgt Ion:168 Resp: 372116
Ion Ratio Lower Upper
168 100
99 57.4 48.9 73.3



#5
Bromomethane
Concen: 0.320 ug/l
RT: 2.880 min Scan# 332
Delta R.T. 0.043 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Tgt Ion: 94 Resp: 813
Ion Ratio Lower Upper
94 100
96 100.0 74.2 111.4



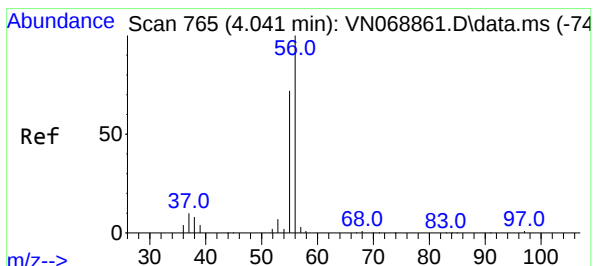
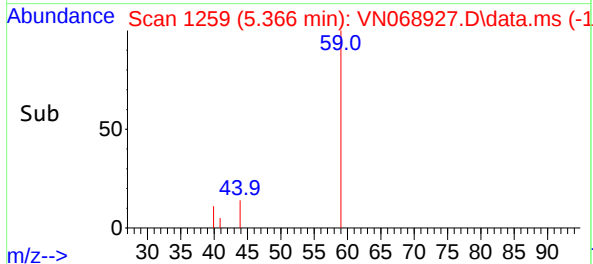
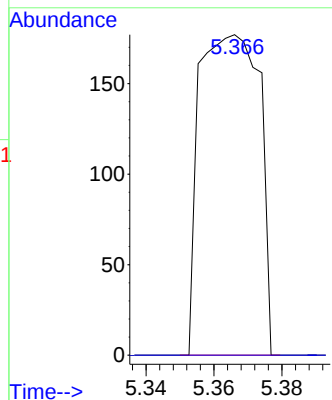
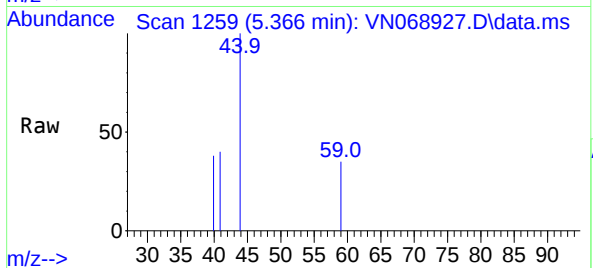


#11

Tert butyl alcohol
Concen: 0.240 ug/l
RT: 5.366 min Scan# 1259
Delta R.T. 0.003 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Instrument :
MSVOA_N
ClientSampled :

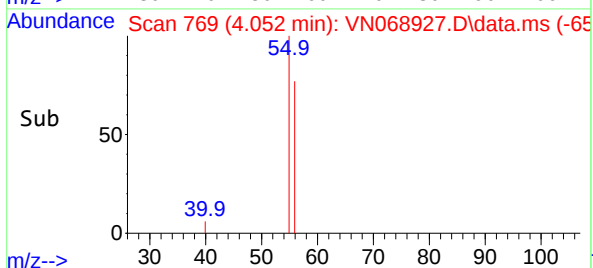
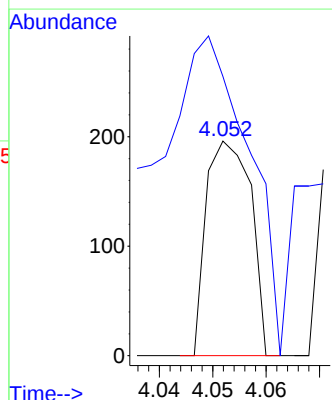
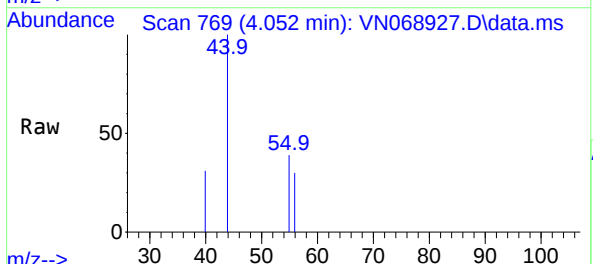
Tgt Ion: 59 Resp: 215
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

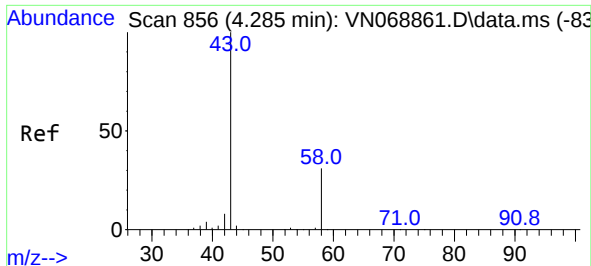


#13

Acrolein
Concen: 0.285 ug/l
RT: 4.052 min Scan# 769
Delta R.T. 0.011 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Tgt Ion: 56 Resp: 113
Ion Ratio Lower Upper
56 100
55 324.8 58.1 87.1#

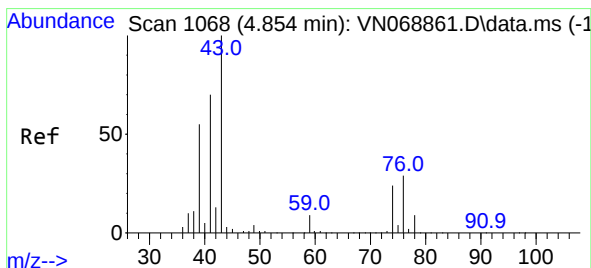
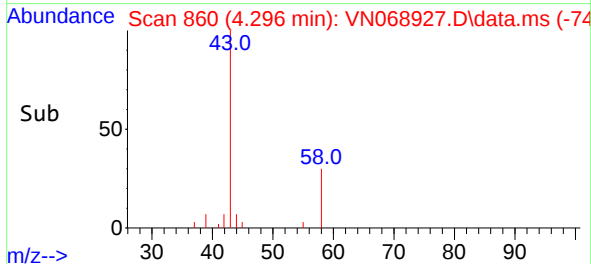
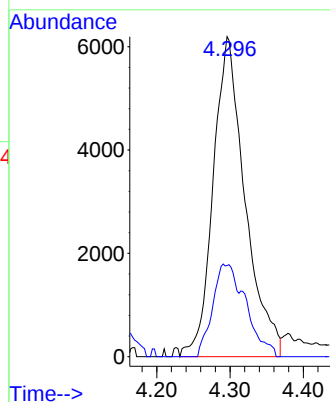
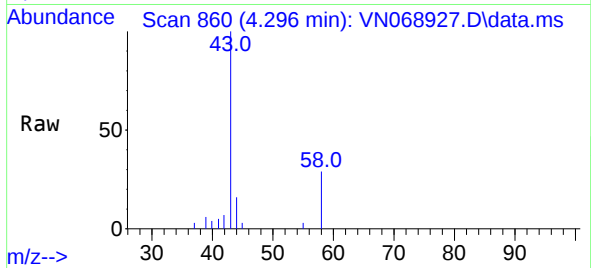




#16
Acetone
Concen: 10.202 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.011 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

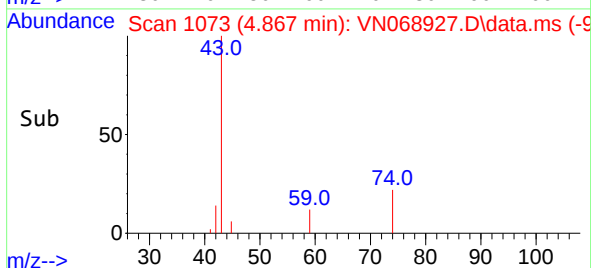
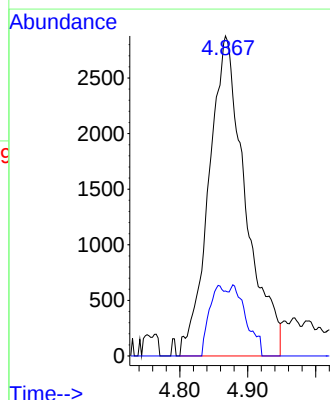
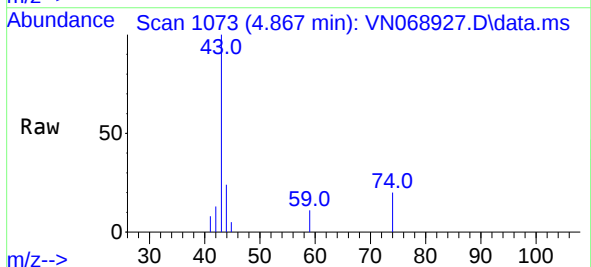
Instrument :
MSVOA_N
ClientSampled :

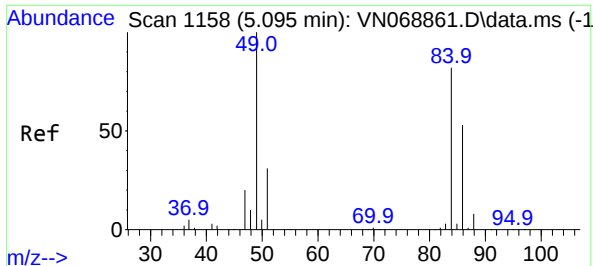
Tgt Ion: 43 Resp: 18679
Ion Ratio Lower Upper
43 100
58 28.5 24.5 36.7



#18
Methyl Acetate
Concen: 1.548 ug/l
RT: 4.867 min Scan# 1073
Delta R.T. 0.013 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Tgt Ion: 43 Resp: 10751
Ion Ratio Lower Upper
43 100
74 10.3 18.9 28.3#



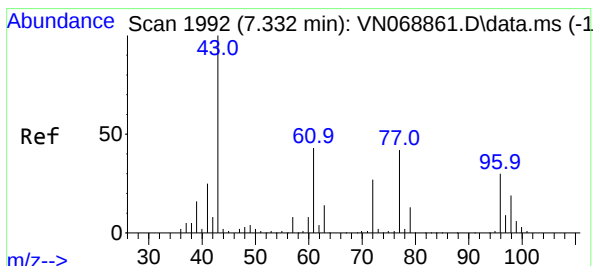
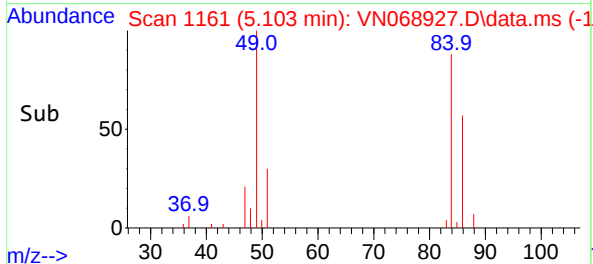
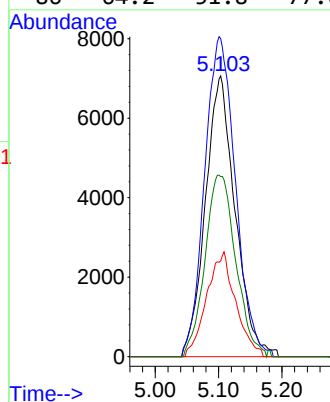
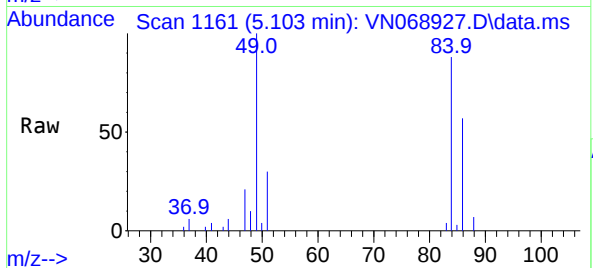


#20
Methylene Chloride
Concen: 5.482 ug/l
RT: 5.103 min Scan# 1161
Delta R.T. 0.008 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 84 Resp: 23100

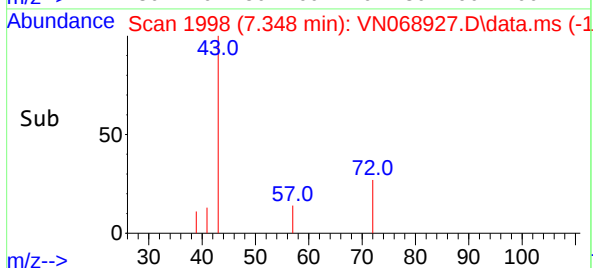
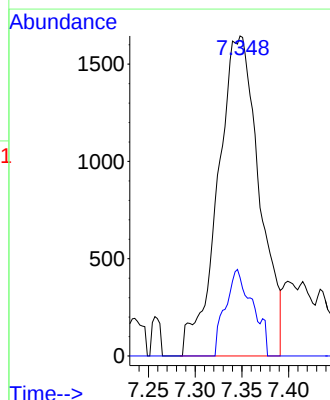
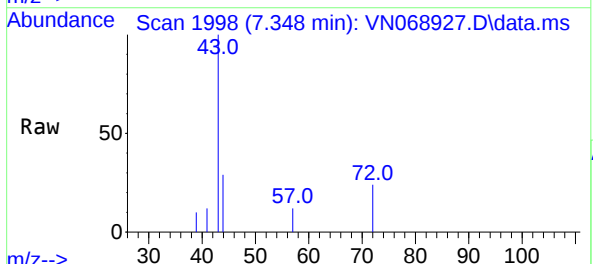
Ion	Ratio	Lower	Upper
84	100		
49	113.3	97.6	146.4
51	34.1	30.3	45.5
86	64.2	51.8	77.6

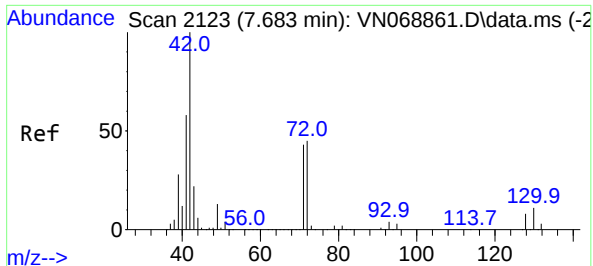


#25
2-Butanone
Concen: 1.837 ug/l
RT: 7.348 min Scan# 1998
Delta R.T. 0.016 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Tgt Ion: 43 Resp: 5087

Ion	Ratio	Lower	Upper
43	100		
72	24.5	21.2	31.8



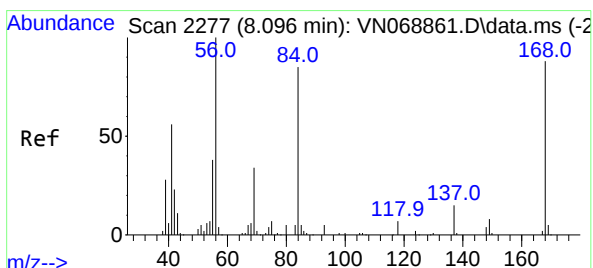
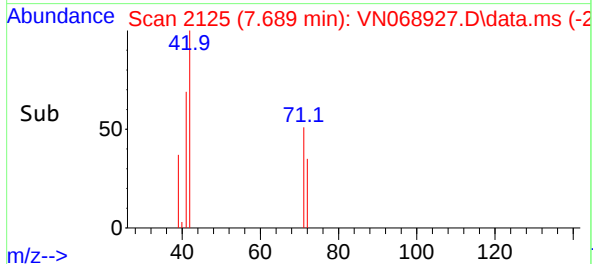
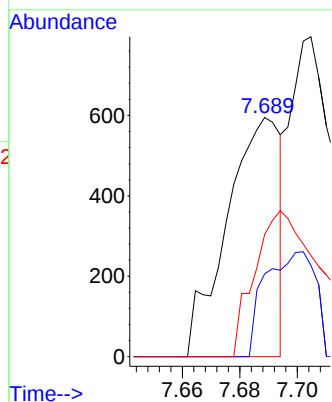
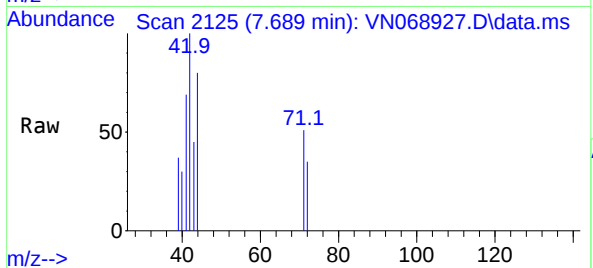


#29
Tetrahydrofuran
Concen: 0.427 ug/l
RT: 7.689 min Scan# 2125
Delta R.T. 0.005 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion: 42 Resp: 766

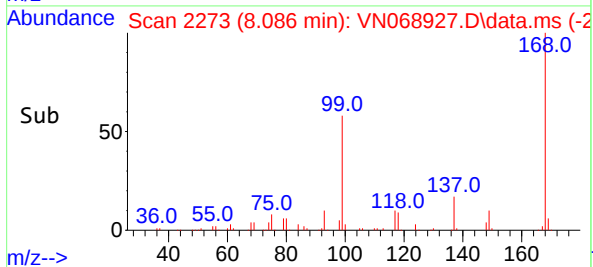
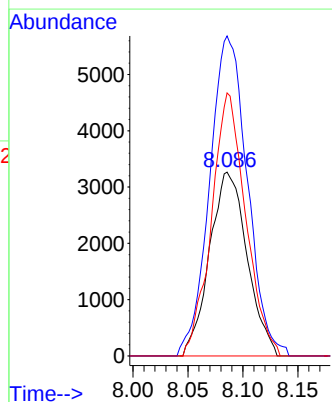
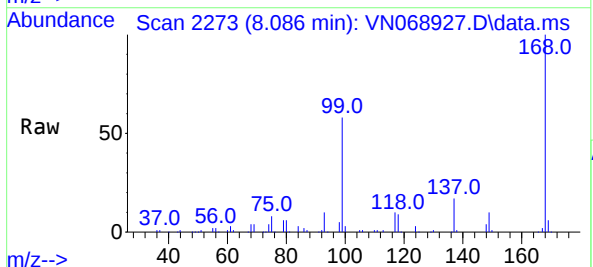
Ion	Ratio	Lower	Upper
42	100		
72	0.0	35.4	53.2#
71	70.1	33.8	50.6#

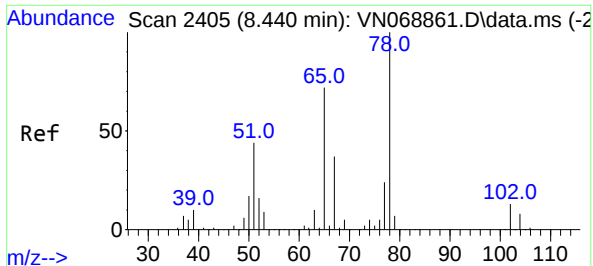


#31
Cyclohexane
Concen: 1.017 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.010 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Tgt Ion: 56 Resp: 7760

Ion	Ratio	Lower	Upper
56	100		
69	169.5	26.9	40.3#
84	143.1	67.6	101.4#



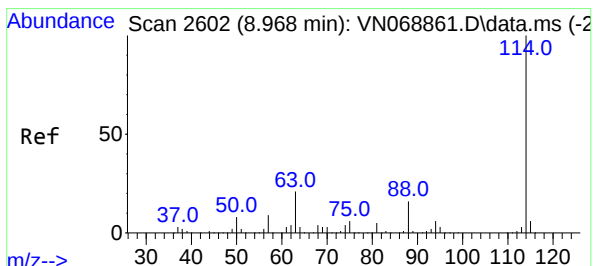
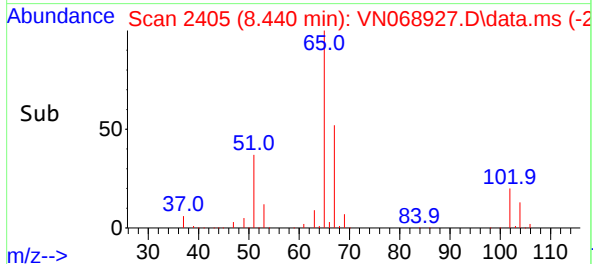
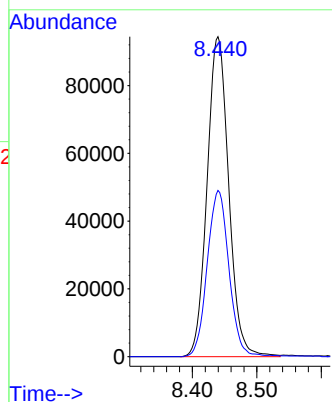
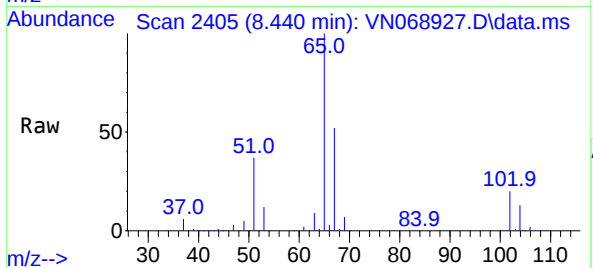


#33

1,2-Dichloroethane-d4
Concen: 44.876 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Instrument :
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ClientSampled :

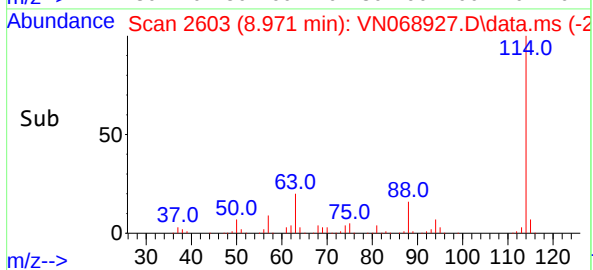
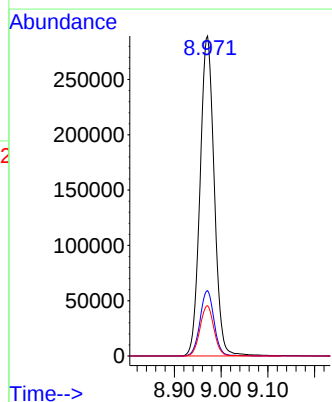
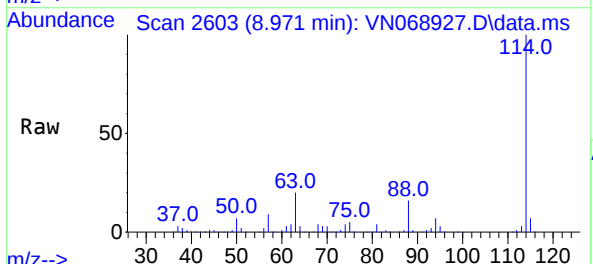
Tgt Ion: 65 Resp: 220171
Ion Ratio Lower Upper
65 100
67 52.0 0.0 103.8

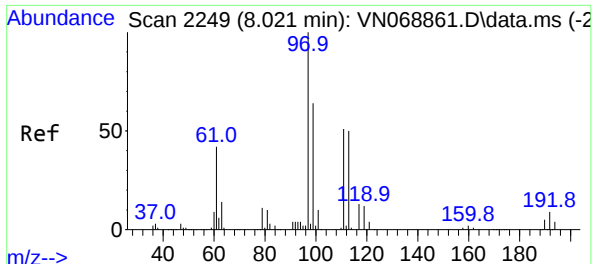


#34

1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Tgt Ion: 114 Resp: 609238
Ion Ratio Lower Upper
114 100
63 20.4 0.0 42.6
88 15.7 0.0 32.0

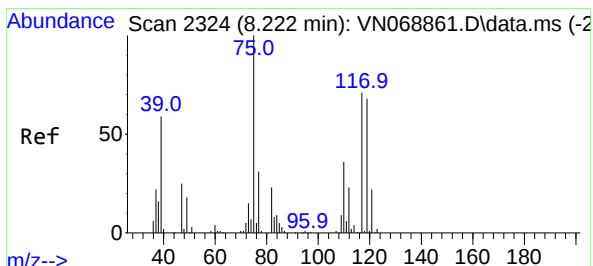
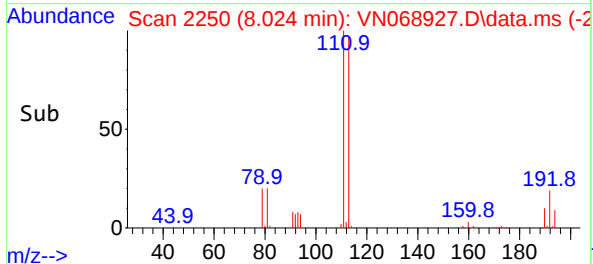
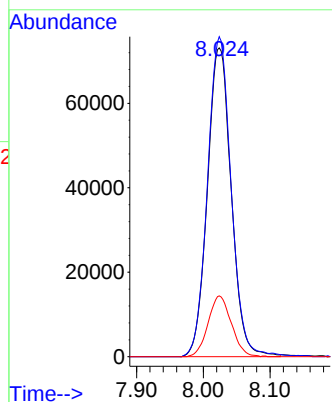
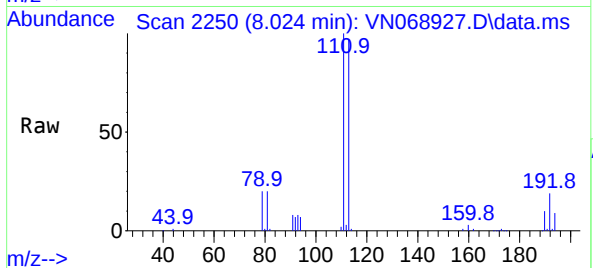




#35
Dibromofluoromethane
Concen: 51.241 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

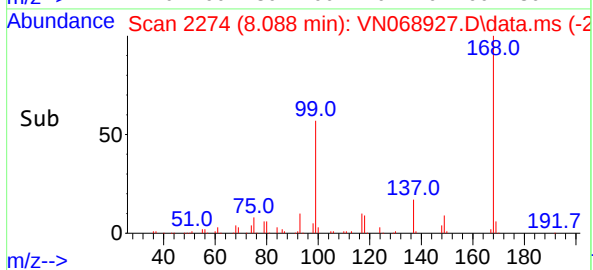
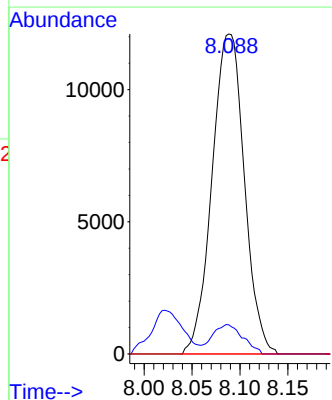
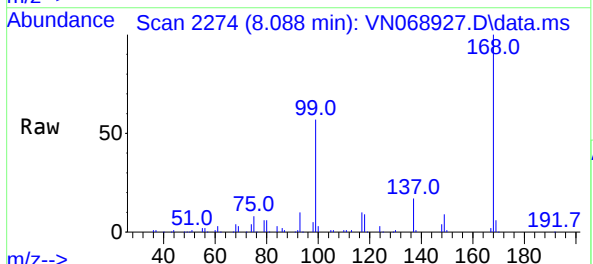
Instrument :
MSVOA_N
ClientSampled :

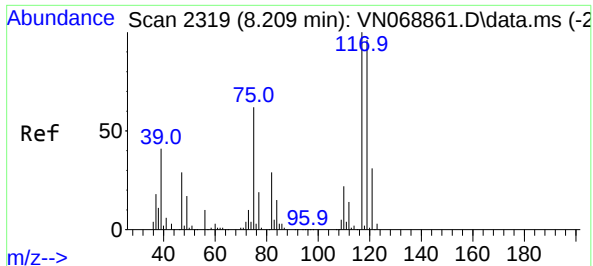
Tgt Ion:113 Resp: 181628
Ion Ratio Lower Upper
113 100
111 102.3 83.2 124.8
192 19.2 15.0 22.4



#36
1,1-Dichloropropene
Concen: 5.453 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.134 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Tgt Ion: 75 Resp: 28376
Ion Ratio Lower Upper
75 100
110 8.6 17.9 53.8#
77 0.0 24.7 37.1#

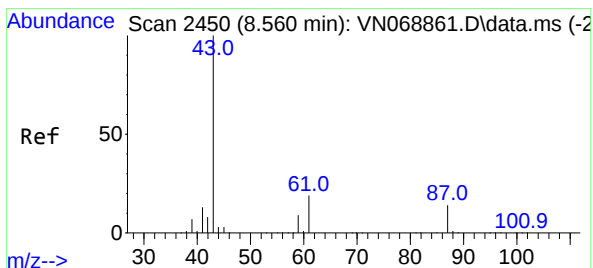
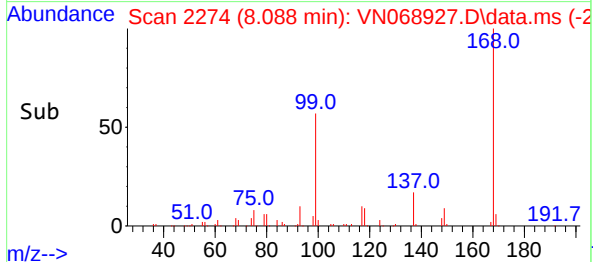
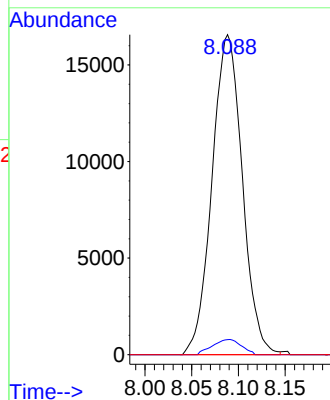
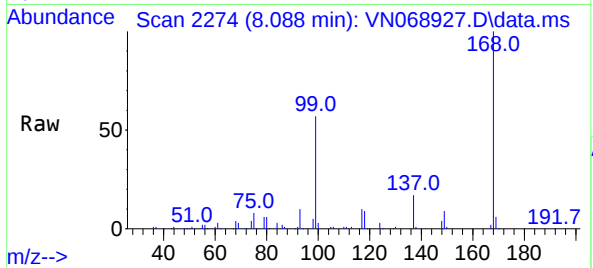




#38
Carbon Tetrachloride
Concen: 6.543 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.121 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

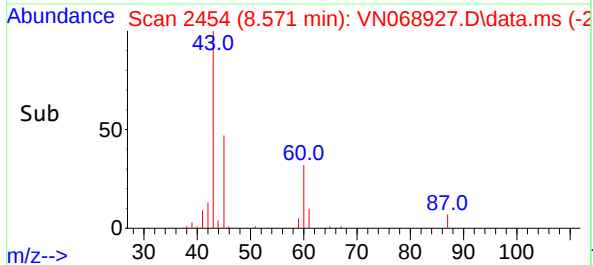
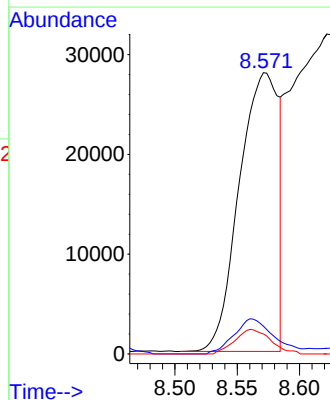
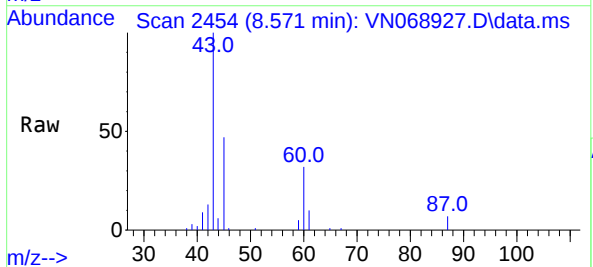
Instrument :
MSVOA_N
ClientSampled :

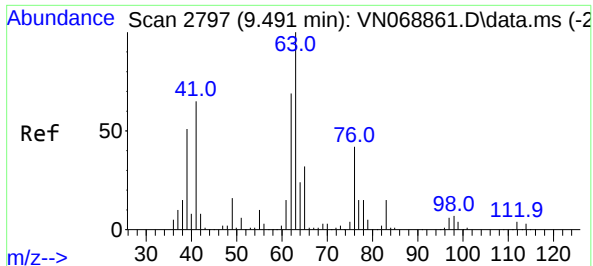
Tgt Ion:117 Resp: 37396
Ion Ratio Lower Upper
117 100
119 4.7 76.9 115.3#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 6.420 ug/l
RT: 8.571 min Scan# 2454
Delta R.T. 0.011 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Tgt Ion: 43 Resp: 60882
Ion Ratio Lower Upper
43 100
61 12.9 20.4 30.6#
87 8.1 10.7 16.1#

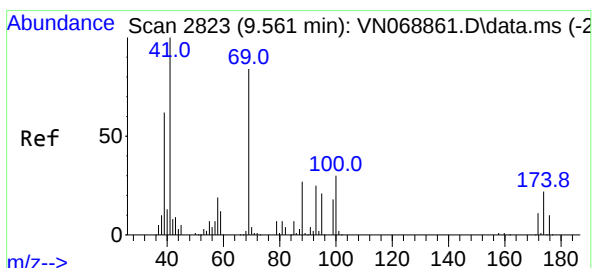
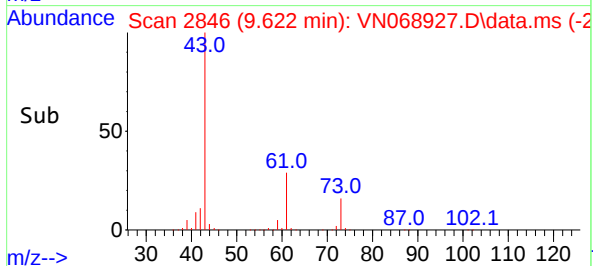
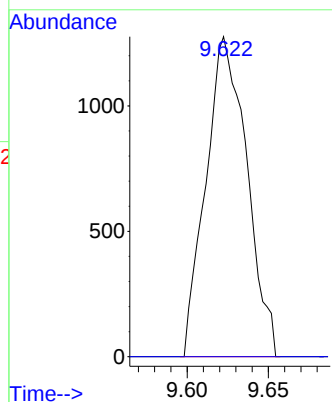
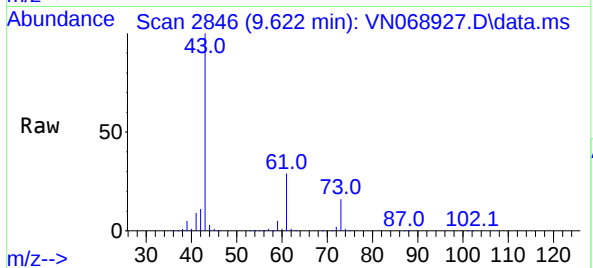




#45
1,2-Dichloropropane
Concen: 0.543 ug/l
RT: 9.622 min Scan# 2846
Delta R.T. 0.131 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

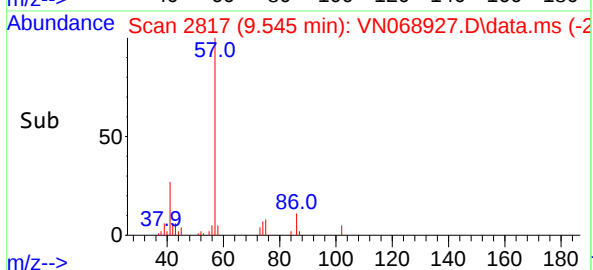
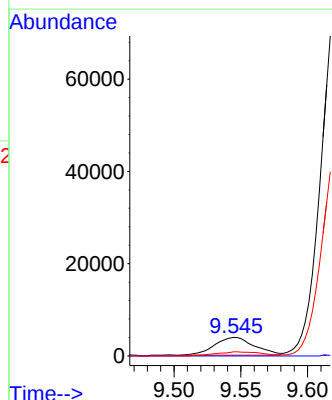
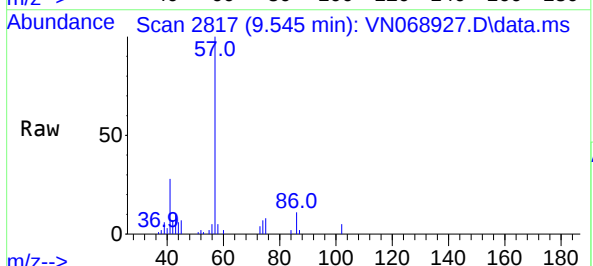
Instrument :
MSVOA_N
ClientSampled :

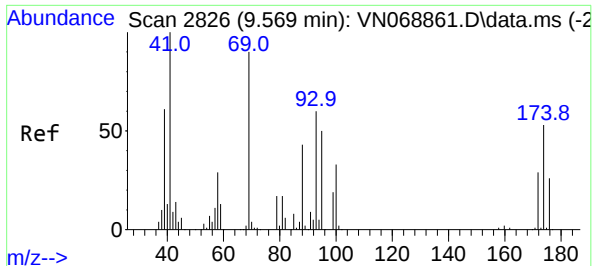
Tgt Ion: 63 Resp: 2234
Ion Ratio Lower Upper
63 100
65 0.0 25.6 38.4#



#48
Methyl methacrylate
Concen: 1.800 ug/l
RT: 9.545 min Scan# 2817
Delta R.T. -0.016 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Tgt Ion: 41 Resp: 8021
Ion Ratio Lower Upper
41 100
69 0.0 66.4 99.6#
39 0.0 50.2 75.2#





#49

1,4-Dioxane

Concen: 38.043 ug/l

RT: 9.628 min Scan# 2848

Delta R.T. 0.059 min

Lab File: VN068927.D

Acq: 14 Oct 2021 16:15

Tgt Ion: 88 Resp: 217

Ion Ratio Lower Upper

88 100

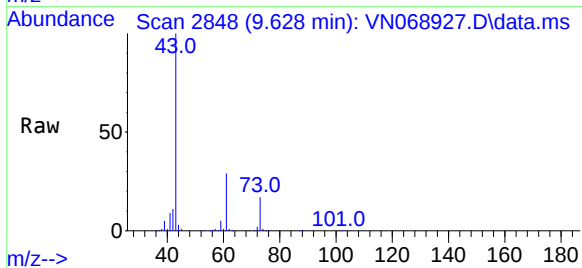
43 838071.9 24.9 37.3#

58 3065.4 56.9 85.3#

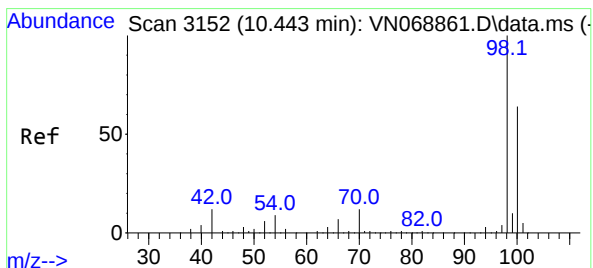
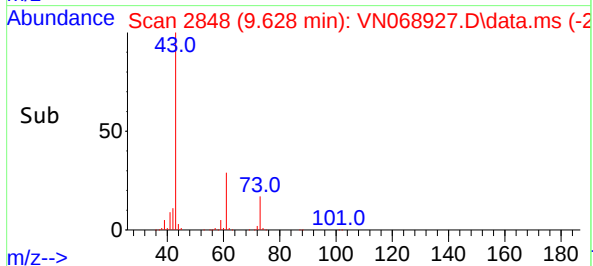
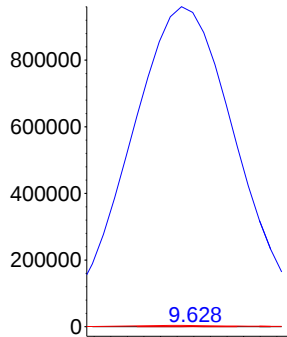
Instrument :

MSVOA_N

ClientSampled :



Abundance



#50

Toluene-d8

Concen: 52.604 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. -0.000 min

Lab File: VN068927.D

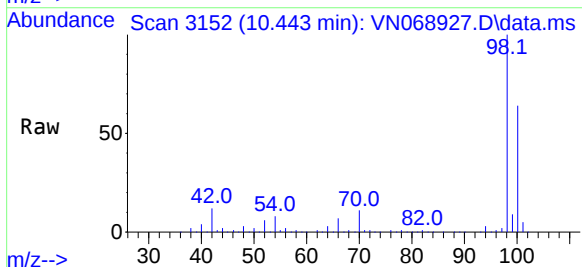
Acq: 14 Oct 2021 16:15

Tgt Ion: 98 Resp: 746051

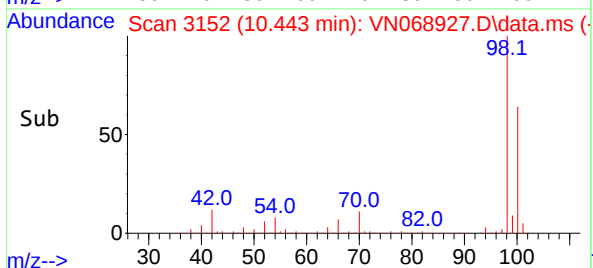
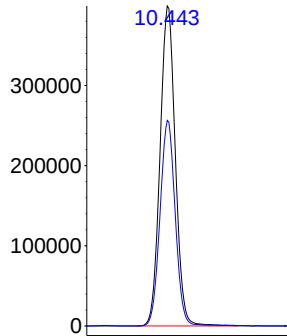
Ion Ratio Lower Upper

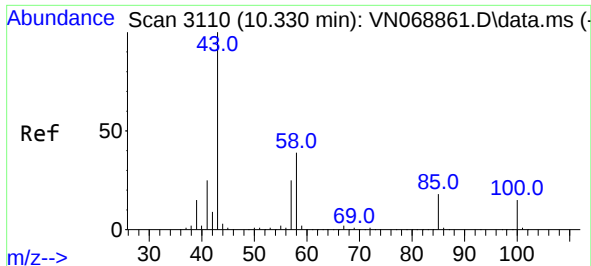
98 100

100 64.0 51.5 77.3



Abundance

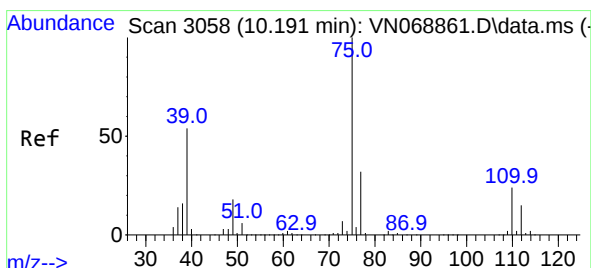
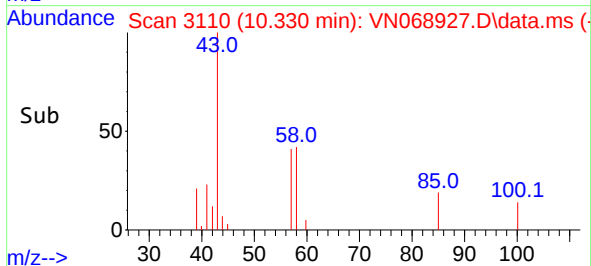
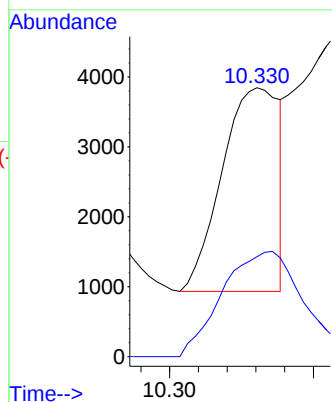
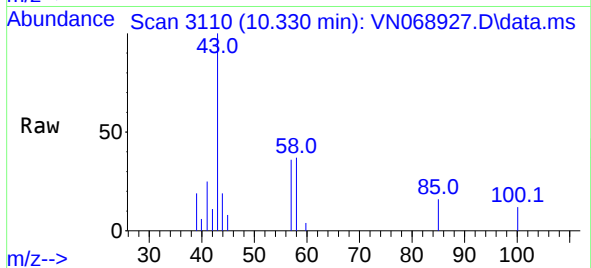




#51
4-Methyl-2-Pentanone
Concen: 0.731 ug/l
RT: 10.330 min Scan# 3110
Delta R.T. -0.000 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

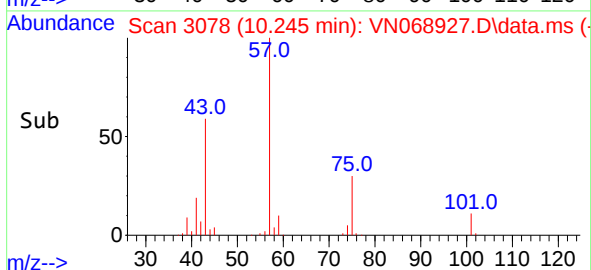
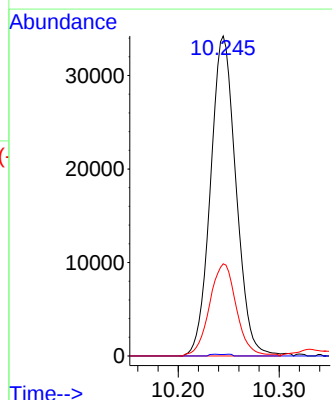
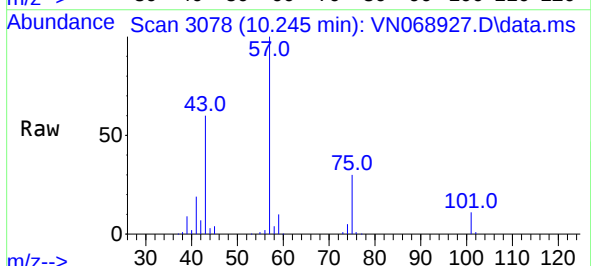
Instrument :
MSVOA_N
ClientSampled :

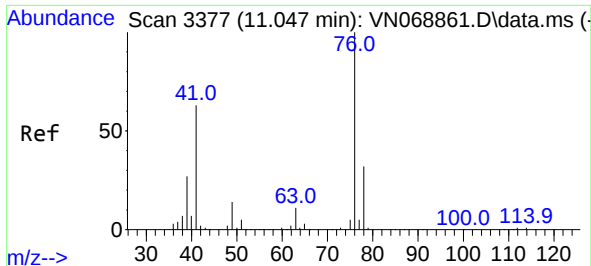
Tgt Ion: 43 Resp: 4020
Ion Ratio Lower Upper
43 100
58 73.1 31.0 46.4#



#54
cis-1,3-Dichloropropene
Concen: 8.731 ug/l
RT: 10.245 min Scan# 3078
Delta R.T. 0.054 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Tgt Ion: 75 Resp: 59849
Ion Ratio Lower Upper
75 100
77 0.4 25.6 38.4#
39 28.8 42.9 64.3#

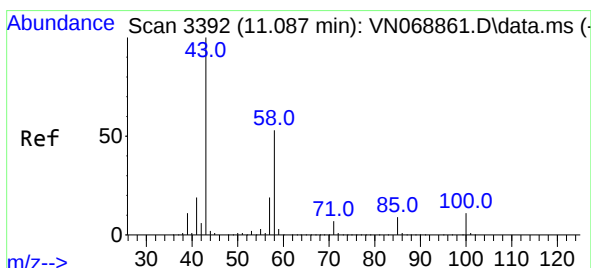
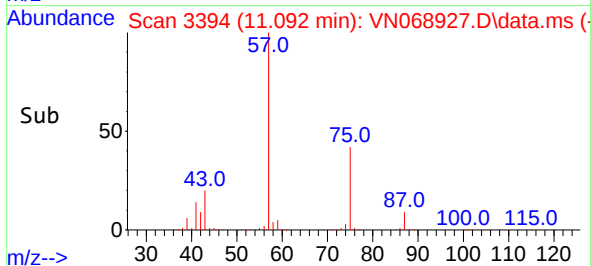
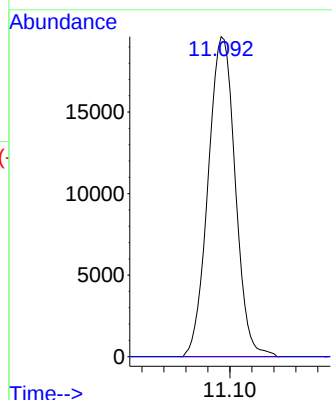
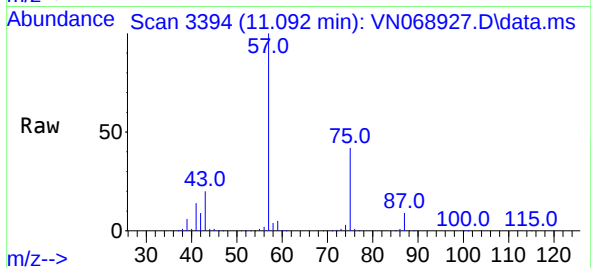




#57
1,3-Dichloropropane
Concen: 5.074 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.046 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

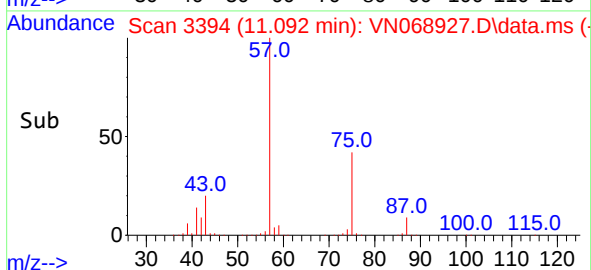
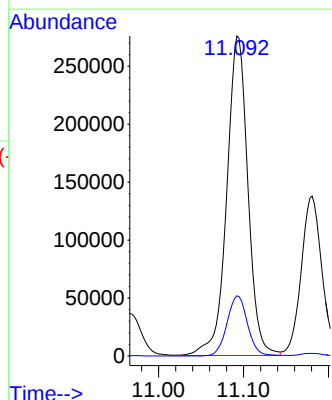
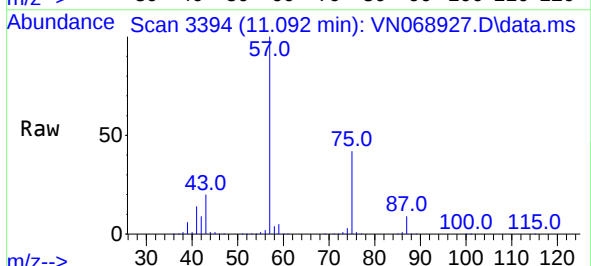
Instrument :
MSVOA_N
ClientSampled :

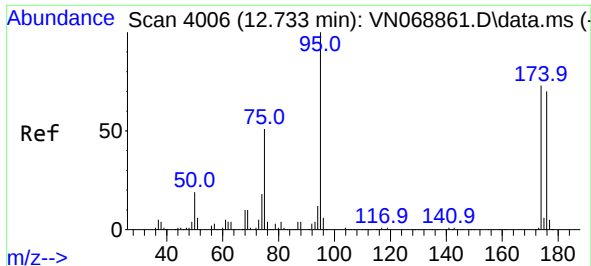
Tgt Ion: 76 Resp: 33632
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.8#



#59
2-Hexanone
Concen: 121.229 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Tgt Ion: 43 Resp: 478024
Ion Ratio Lower Upper
43 100
58 18.3 26.9 80.7#

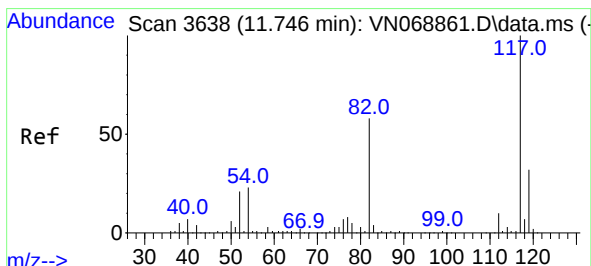
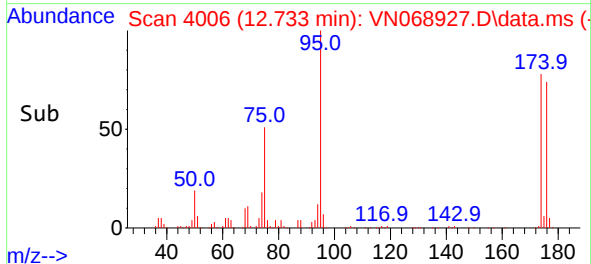
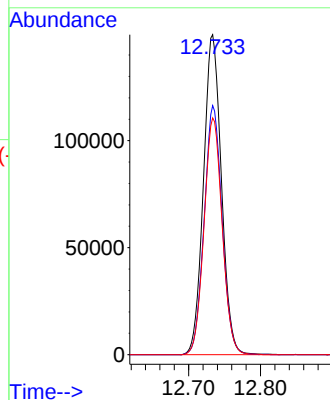
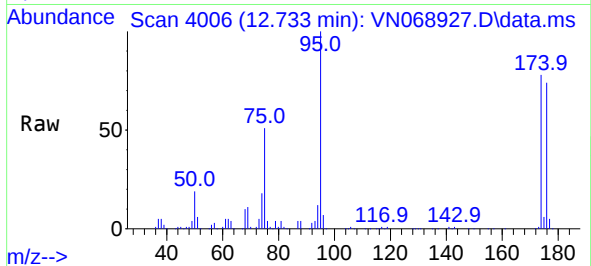




#62
4-Bromofluorobenzene
Concen: 48.547 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

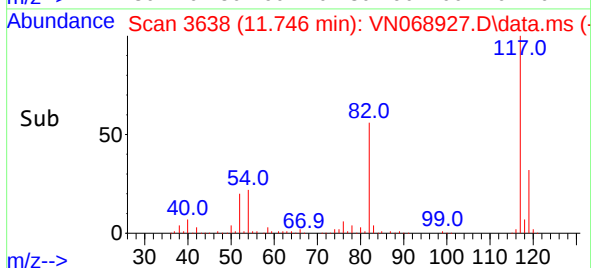
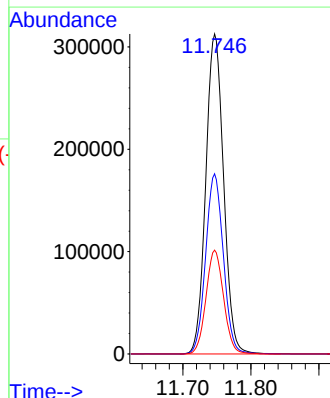
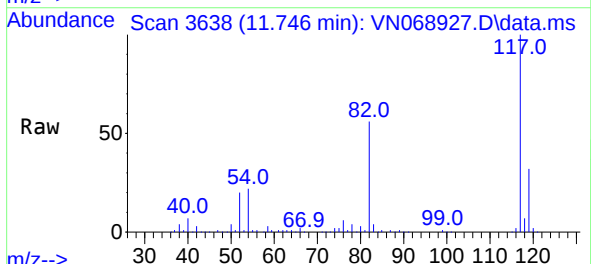
Instrument :
MSVOA_N
ClientSampled :

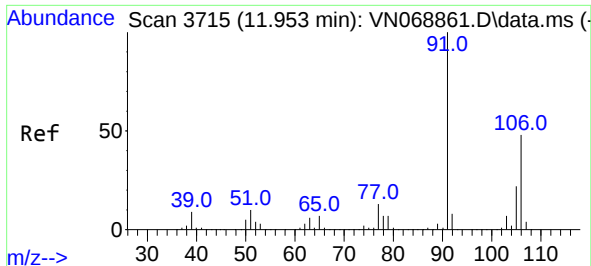
Tgt Ion: 95 Resp: 259772
Ion Ratio Lower Upper
95 100
174 77.9 0.0 144.8
176 75.0 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. -0.000 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Tgt Ion: 117 Resp: 569414
Ion Ratio Lower Upper
117 100
82 56.3 46.4 69.6
119 32.5 26.0 39.0

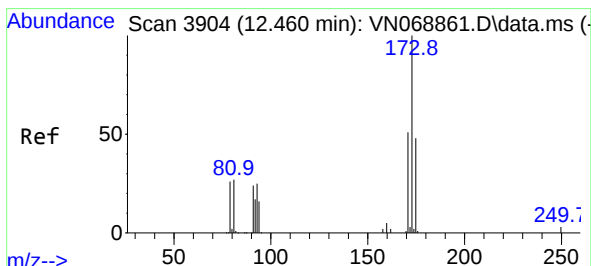
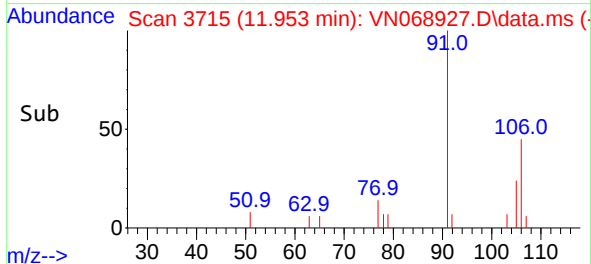
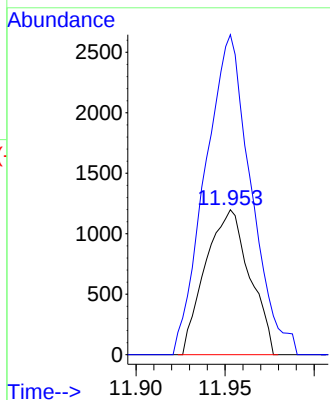
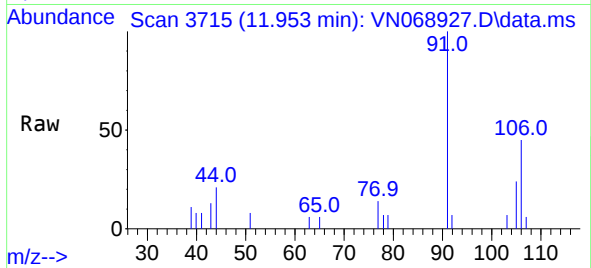




#68
m/p-Xylenes
Concen: 0.273 ug/l
RT: 11.953 min Scan# 3715
Delta R.T. -0.000 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

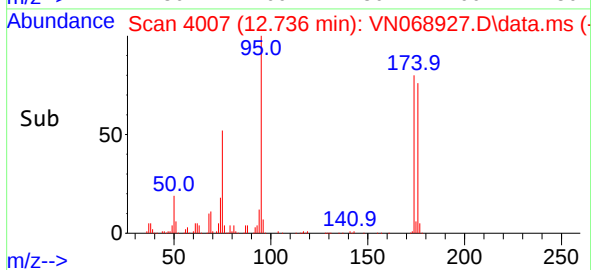
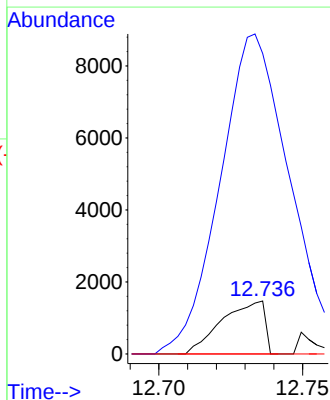
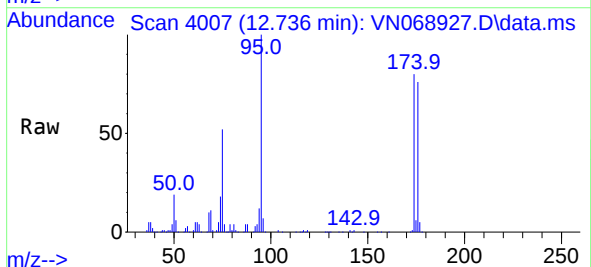
Instrument :
MSVOA_N
ClientSampled :

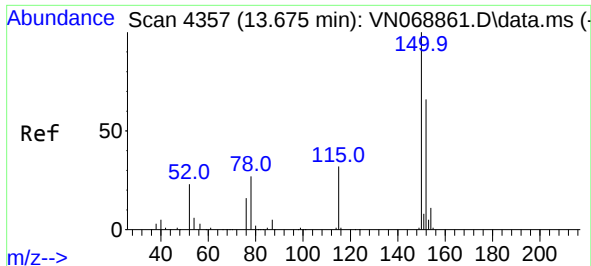
Tgt Ion:106 Resp: 2073
Ion Ratio Lower Upper
106 100
91 227.9 166.8 250.2



#71
Bromoform
Concen: 0.451 ug/l
RT: 12.736 min Scan# 4007
Delta R.T. 0.276 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Tgt Ion:173 Resp: 1525
Ion Ratio Lower Upper
173 100
175 907.2 23.8 71.5#
254 0.0 0.0 0.0

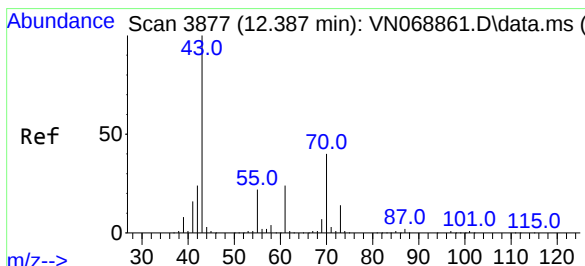
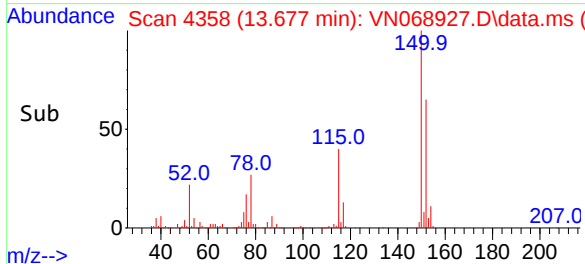
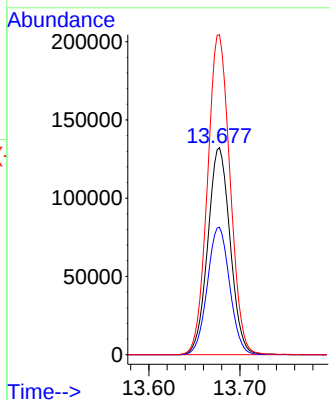
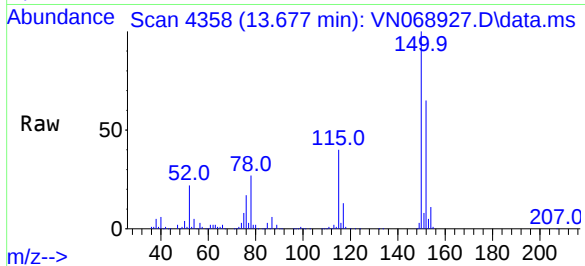




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.677 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

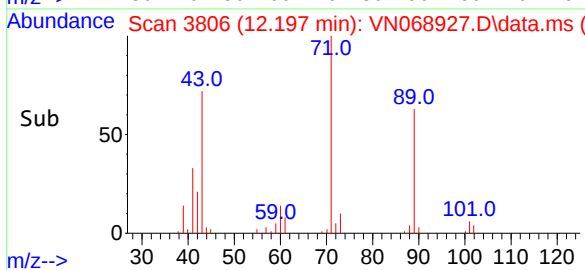
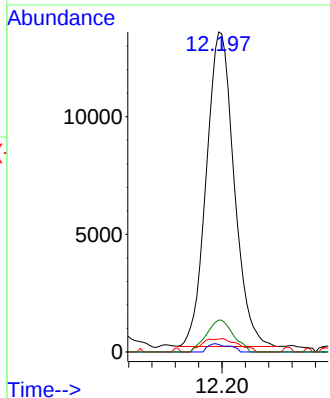
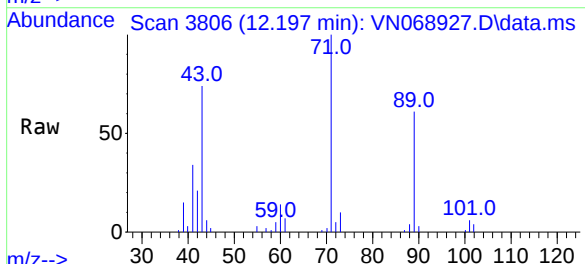
Instrument :
MSVOA_N
ClientSampled :

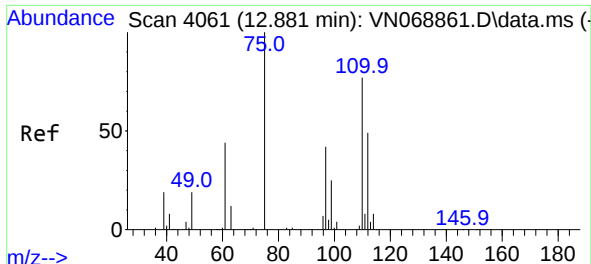
Tgt Ion:152 Resp: 225424
Ion Ratio Lower Upper
152 100
115 61.6 31.4 94.3
150 155.9 0.0 351.0



#74
N-ethyl acetate
Concen: 3.108 ug/l
RT: 12.197 min Scan# 3806
Delta R.T. -0.190 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Tgt Ion: 43 Resp: 22095
Ion Ratio Lower Upper
43 100
70 2.1 32.2 48.2#
55 5.4 18.0 27.0#
61 9.8 19.0 28.4#

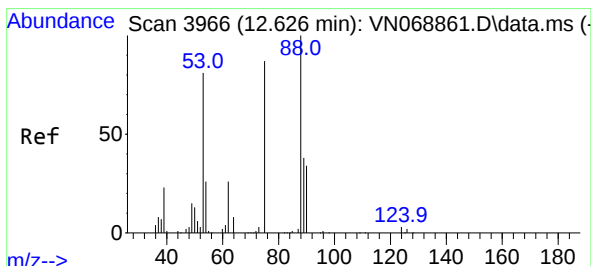
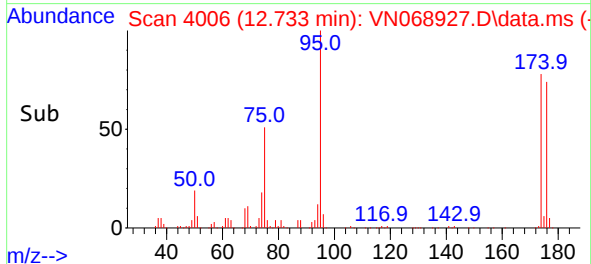
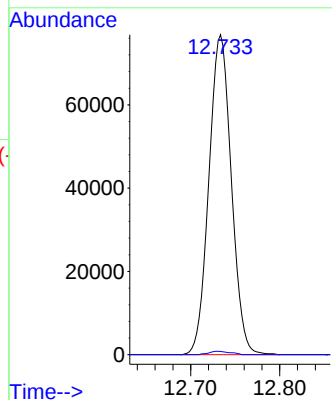
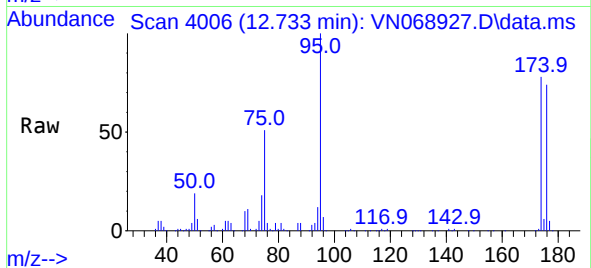




#76
1,2,3-Trichloropropane
Concen: 28.056 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.148 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

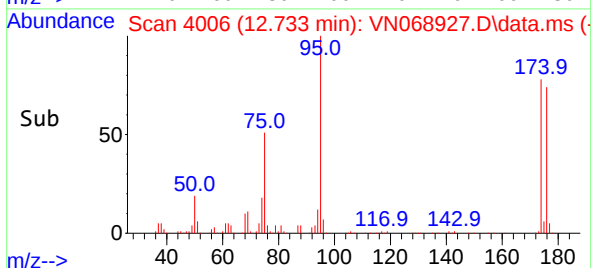
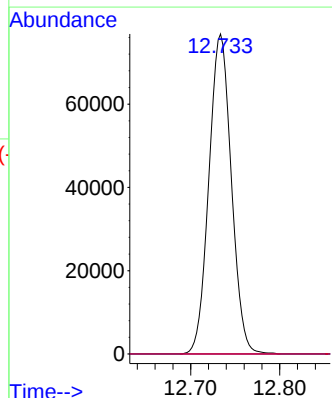
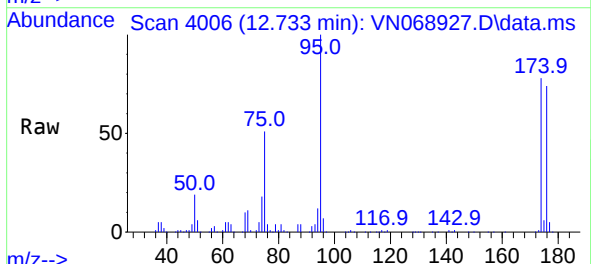
Instrument :
MSVOA_N
ClientSampled :

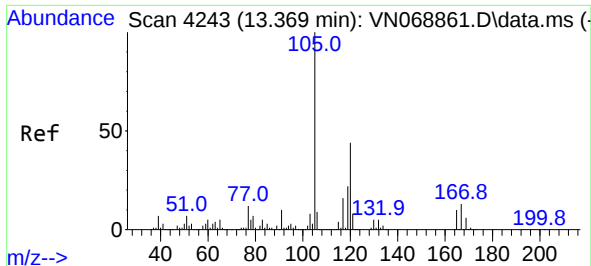
Tgt Ion: 75 Resp: 134568
Ion Ratio Lower Upper
75 100
77 1.0 96.2 288.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 67.123 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Tgt Ion: 75 Resp: 134568
Ion Ratio Lower Upper
75 100
53 0.0 75.4 113.2#
89 0.0 36.9 55.3#

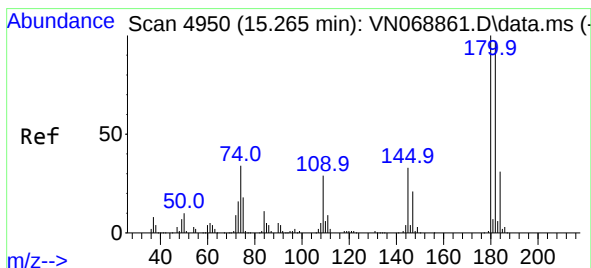
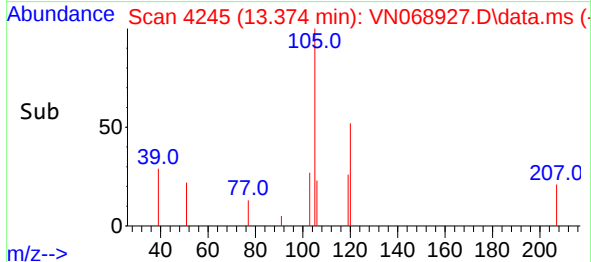
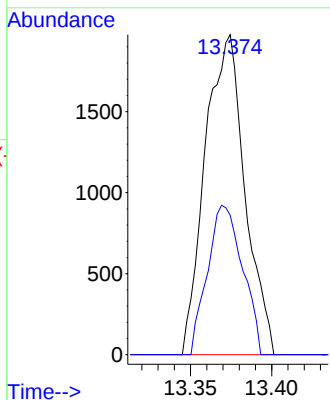
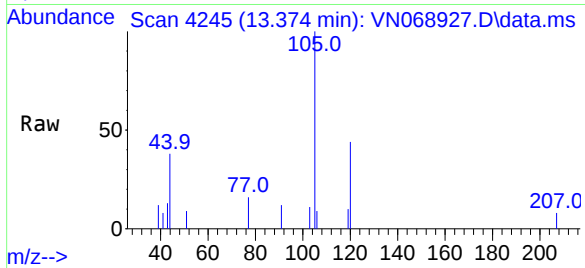




#84
1,2,4-Trimethylbenzene
Concen: 0.223 ug/l
RT: 13.374 min Scan# 4245
Delta R.T. 0.005 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

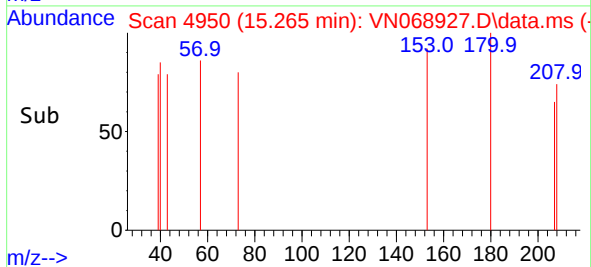
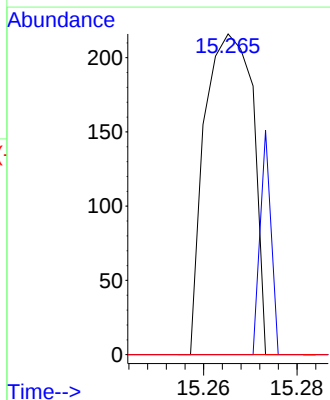
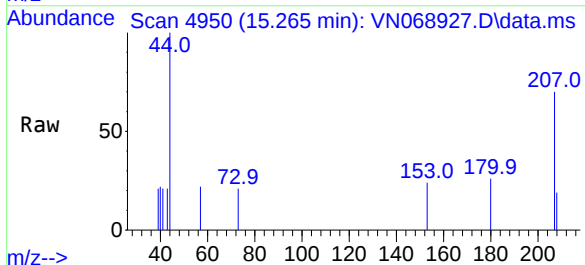
Instrument :
MSVOA_N
ClientSampled :

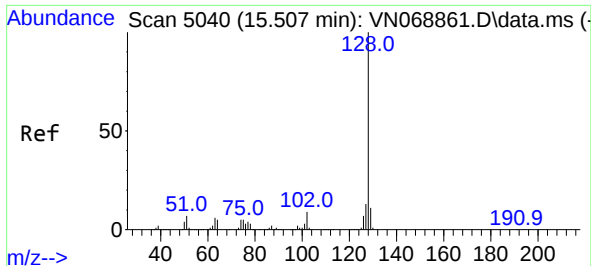
Tgt Ion:105 Resp: 3358
Ion Ratio Lower Upper
105 100
120 41.1 21.9 65.5



#93
1,2,4-Trichlorobenzene
Concen: 2.640 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Tgt Ion:180 Resp: 154
Ion Ratio Lower Upper
180 100
182 15.6 47.9 143.7#
145 0.0 16.4 49.2#

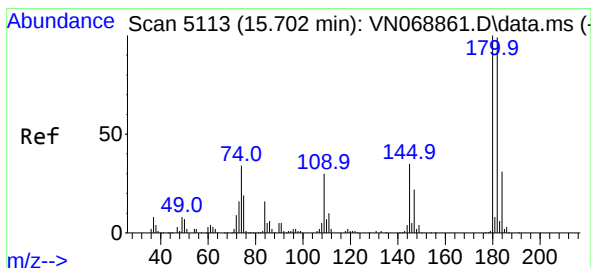
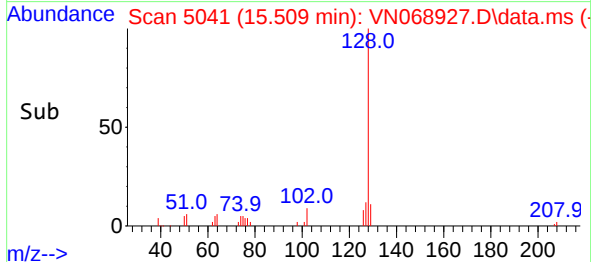
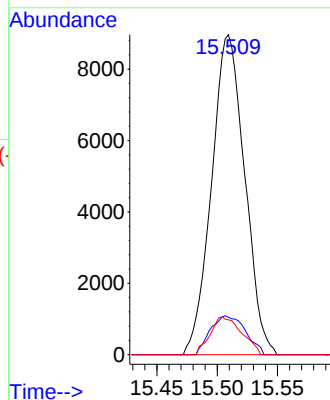
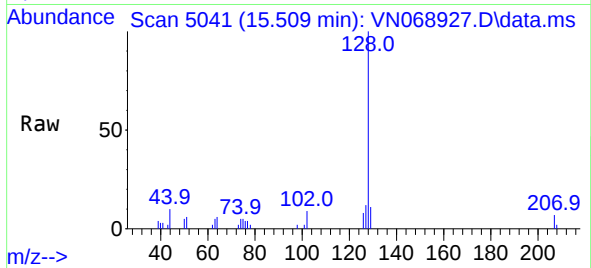




#95
Naphthalene
Concen: 5.325 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.002 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:	128	Resp:	17134
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	11.2	8.9	13.3



#96
1,2,3-Trichlorobenzene
Concen: 2.545 ug/l
RT: 15.702 min Scan# 5113
Delta R.T. 0.000 min
Lab File: VN068927.D
Acq: 14 Oct 2021 16:15

Tgt Ion:	180	Resp:	118
Ion	Ratio	Lower	Upper
180	100		
182	95.8	48.1	144.3
145	0.0	17.4	52.2#

