

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071921\
 Data File : VN067808.D
 Acq On : 19 Jul 2021 21:17
 Operator : JC/MD
 Sample : M3089-06
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 20 04:55:32 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)

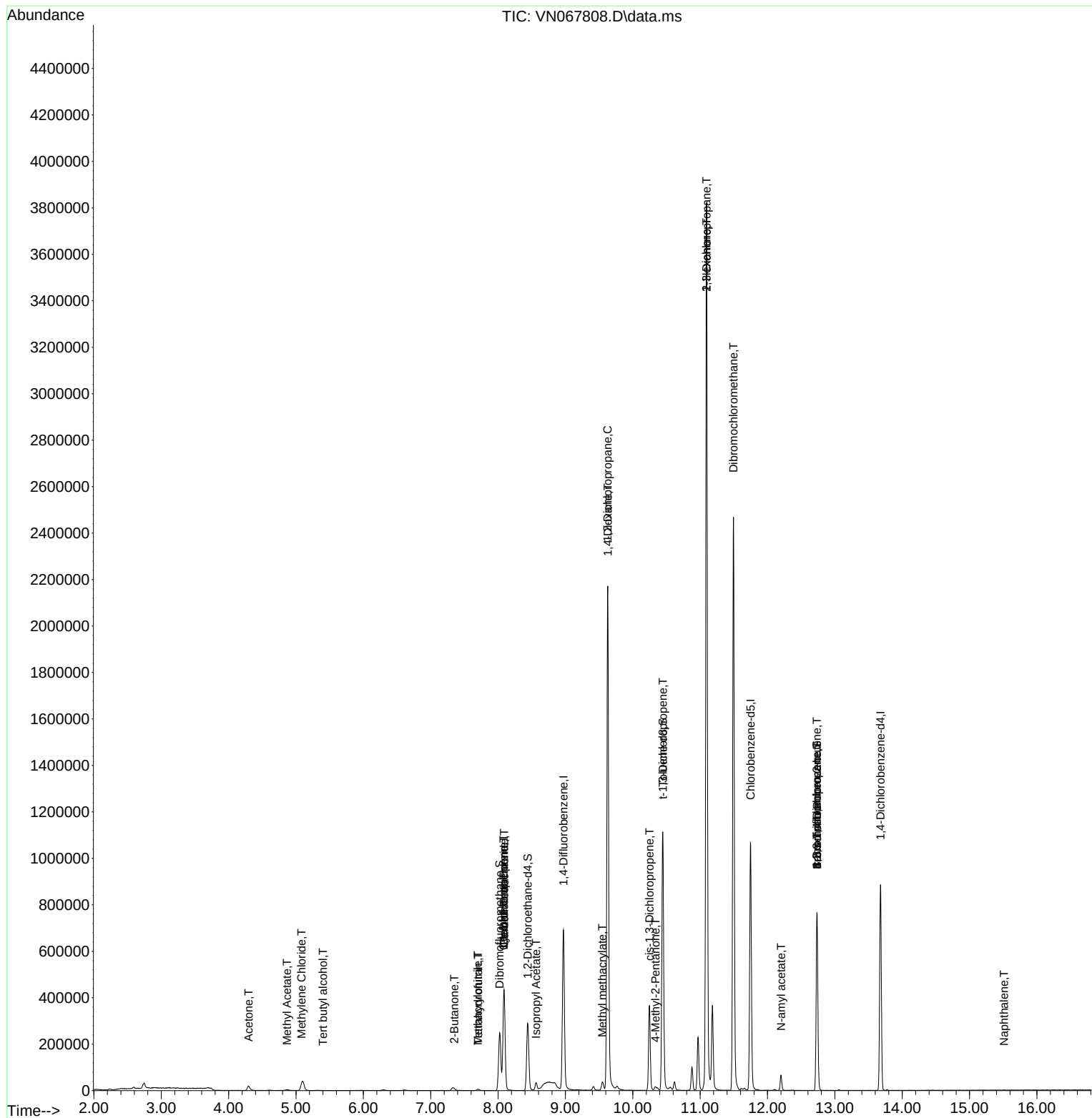
Internal Standards						
1) Pentafluorobenzene	8.088	168	311693	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	596638	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.749	117	619900	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	230947	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	248370	52.725	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 105.460%			
35) Dibromofluoromethane	8.024	113	181432	50.331	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 100.660%			
50) Toluene-d8	10.446	98	788224	52.240	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 104.480%			
62) 4-Bromofluorobenzene	12.734	95	270655	50.778	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 101.560%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.837	94	188	Below Cal	#	4
6) Chloroethane	2.934	64	25	Below Cal	#	44
11) Tert butyl alcohol	5.398	59	158	0.233	ug/l #	71
13) Acrolein	4.057	56	109	Below Cal	#	40
16) Acetone	4.296	43	35023	23.628	ug/l	100
18) Methyl Acetate	4.867	43	7956	1.911	ug/l #	61
20) Methylene Chloride	5.082	84	11273	2.598	ug/l #	82
25) 2-Butanone	7.351	43	8419	3.421	ug/l	97
29) Tetrahydrofuran	7.705	42	4247	2.624	ug/l #	72
31) Cyclohexane	8.083	56	8560	1.296	ug/l #	33
36) 1,1-Dichloropropene	8.083	75	28850	5.206	ug/l #	52
38) Carbon Tetrachloride	8.091	117	34723	6.352	ug/l #	17
41) Methacrylonitrile	7.702	41	2800	1.015	ug/l #	44
43) Isopropyl Acetate	8.566	43	37627	3.983	ug/l	94
45) 1,2-Dichloropropane	9.628	63	2255	0.537	ug/l #	44
48) Methyl methacrylate	9.547	41	9770	2.339	ug/l #	12
49) 1,4-Dioxane	9.630	88	212	34.602	ug/l #	1
51) 4-Methyl-2-Pentanone	10.339	43	8884	1.531	ug/l #	87
53) t-1,3-Dichloropropene	10.448	75	88	1.757	ug/l #	1
54) cis-1,3-Dichloropropene	10.247	75	64759	9.995	ug/l #	61
57) 1,3-Dichloropropane	11.095	76	39903	5.588	ug/l #	43
59) 2-Hexanone	11.095	43	591043	145.913	ug/l #	54
60) Dibromochloromethane	11.494	129	219	2.398	ug/l #	11
71) Bromoform	12.736	173	355	3.259	ug/l #	1
74) N-amyl acetate	12.200	43	21149	3.129	ug/l #	55
76) 1,2,3-Trichloropropane	12.734	75	149493	31.697	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.734	75	149493	102.193	ug/l #	6
95) Naphthalene	15.512	128	432	3.048	ug/l #	69

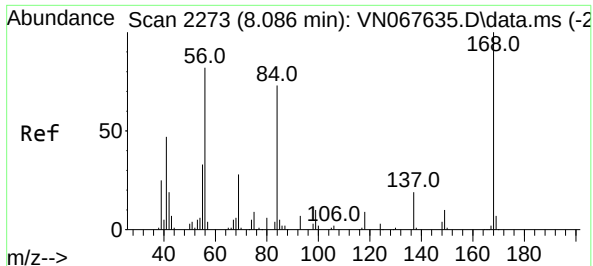
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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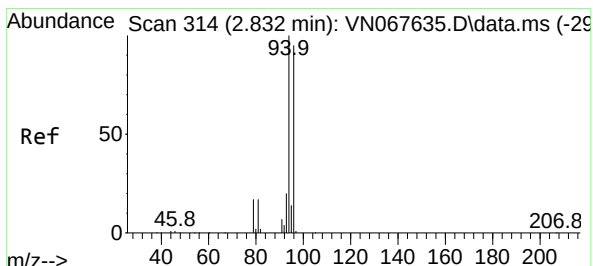
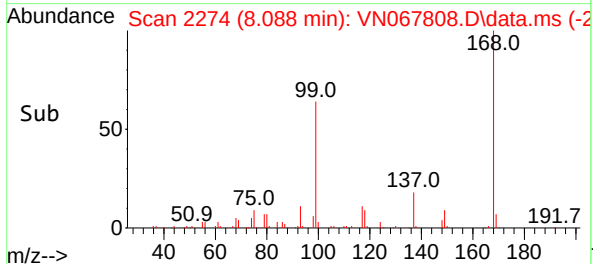
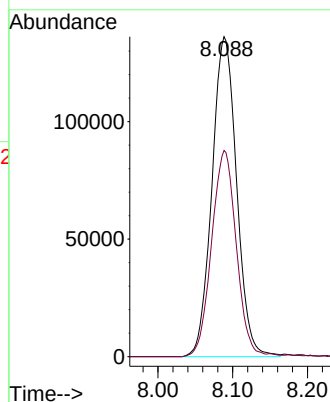
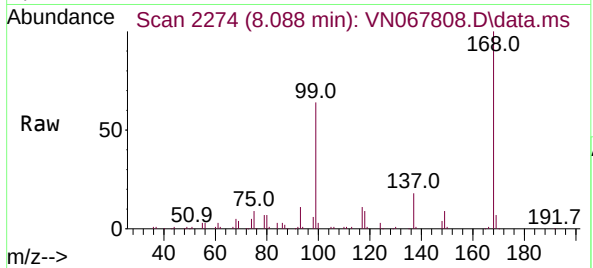




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.002 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

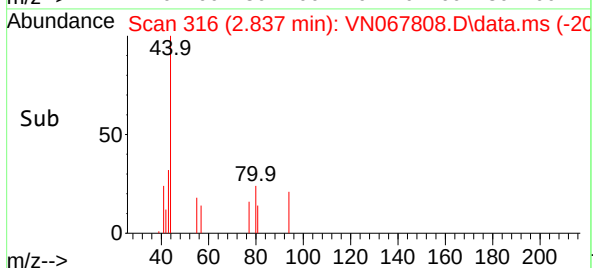
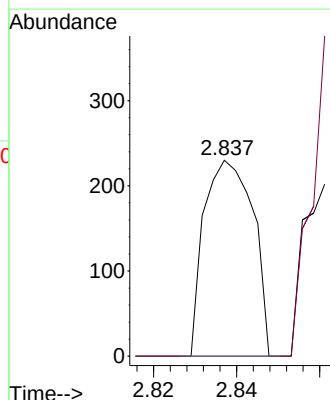
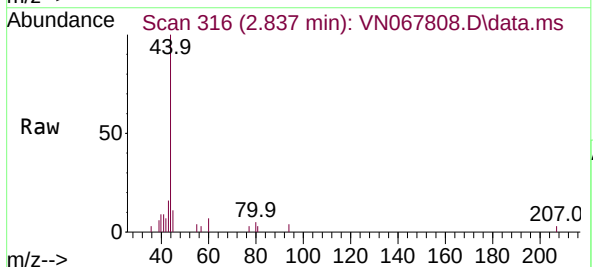
Instrument :
MSVOA_N
ClientSampled :

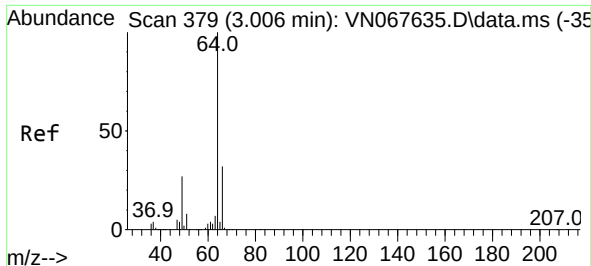
Tgt Ion:168 Resp: 311693
Ion Ratio Lower Upper
168 100
99 64.5 62.9 94.3



#5
Bromomethane
Concen: Below Cal
RT: 2.837 min Scan# 316
Delta R.T. 0.005 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

Tgt Ion: 94 Resp: 188
Ion Ratio Lower Upper
94 100
96 0.0 73.7 110.5#

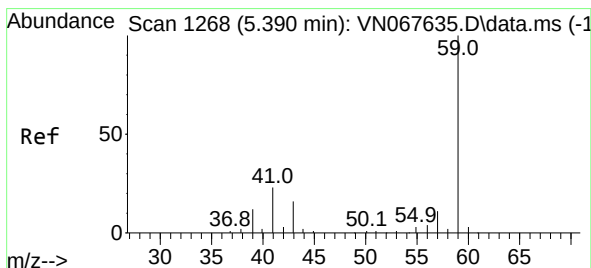
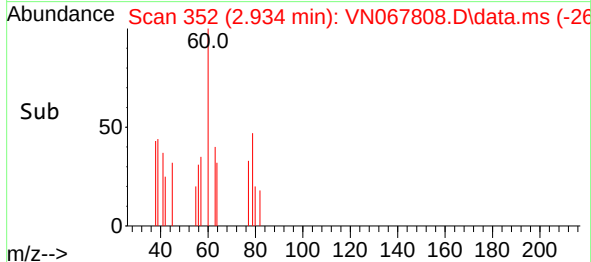
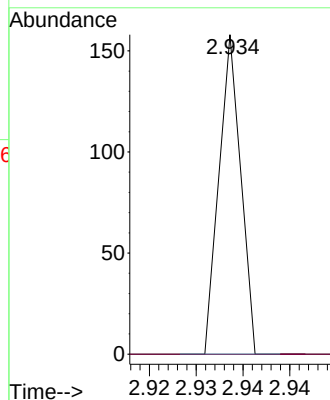
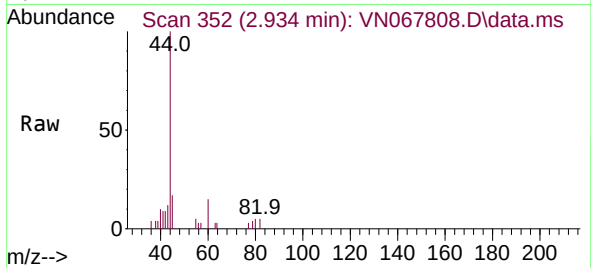




#6
Chloroethane
Concen: Below Cal
RT: 2.934 min Scan# 352
Delta R.T. -0.072 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

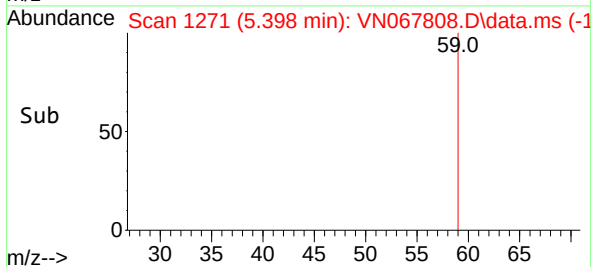
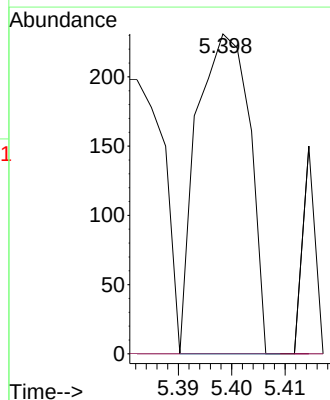
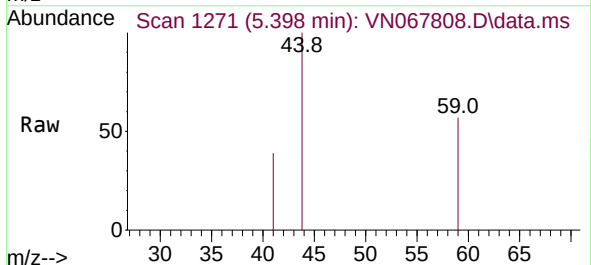
Instrument :
MSVOA_N
ClientSampleId :

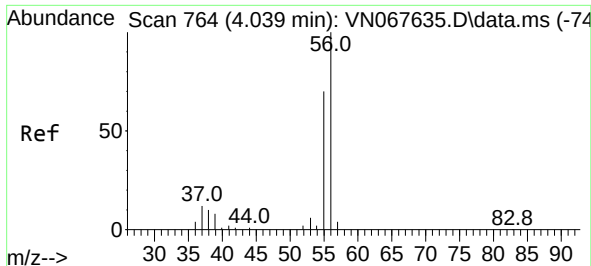
Tgt Ion: 64 Resp: 25
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#



#11
Tert butyl alcohol
Concen: 0.233 ug/l
RT: 5.398 min Scan# 1271
Delta R.T. 0.008 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

Tgt Ion: 59 Resp: 158
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

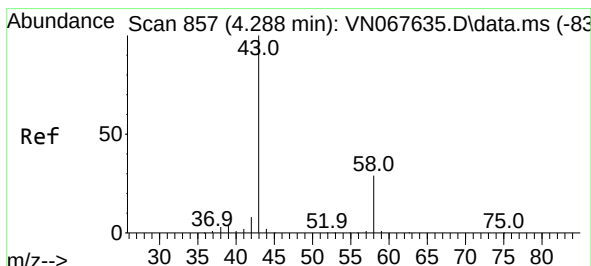
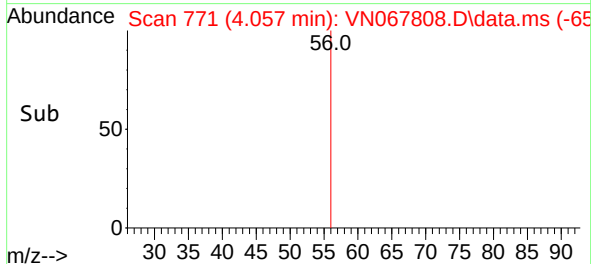
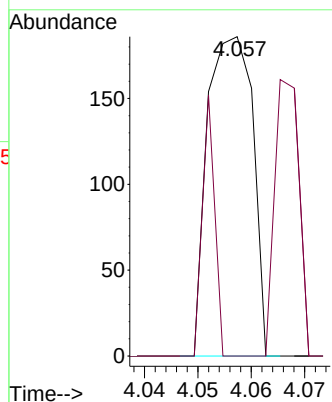
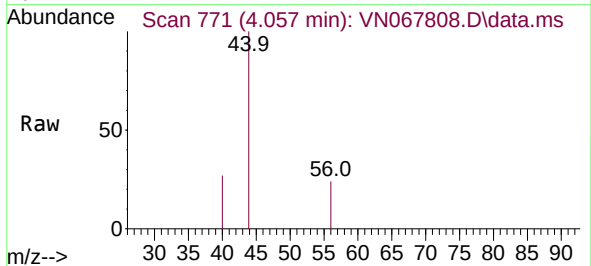




#13
Acrolein
Concen: Below Cal
RT: 4.057 min Scan# 771
Delta R.T. 0.018 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

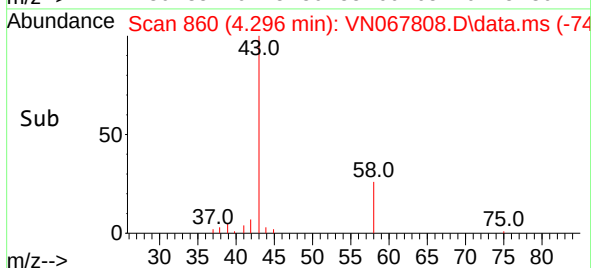
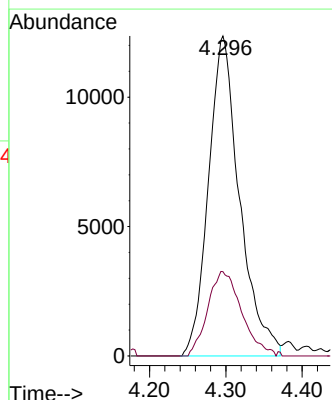
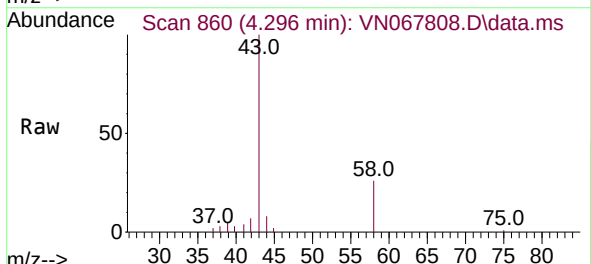
Instrument :
MSVOA_N
ClientSampled :

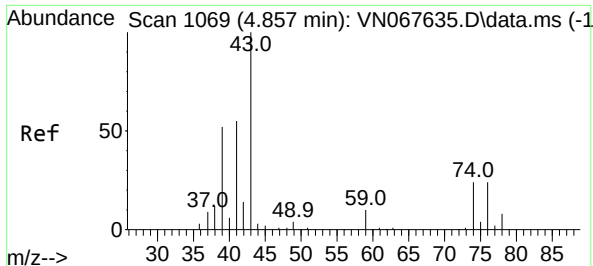
Tgt Ion: 56 Resp: 109
Ion Ratio Lower Upper
56 100
55 22.0 57.4 86.0#



#16
Acetone
Concen: 23.628 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.008 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

Tgt Ion: 43 Resp: 35023
Ion Ratio Lower Upper
43 100
58 26.3 21.2 31.8





#18

Methyl Acetate

Concen: 1.911 ug/l

RT: 4.867 min Scan# 1073

Delta R.T. 0.010 min

Lab File: VN067808.D

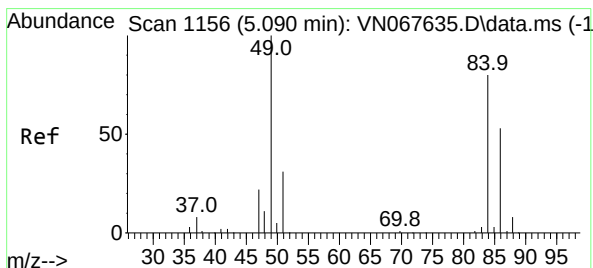
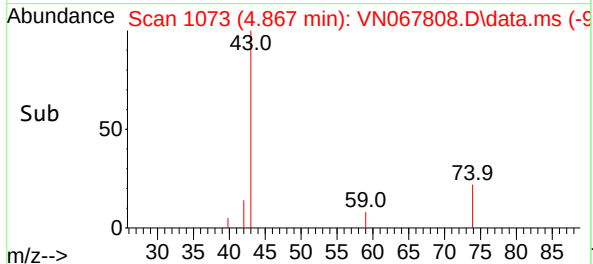
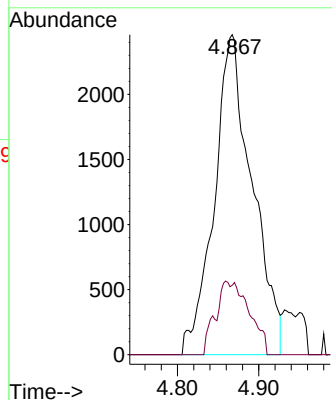
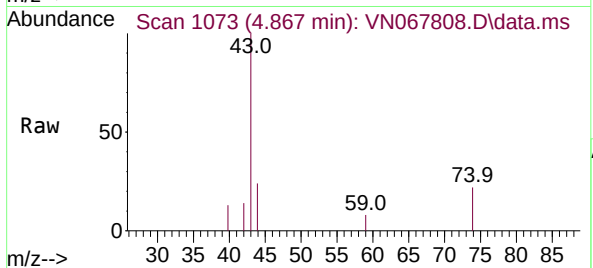
Acq: 19 Jul 2021 21:17

Tgt Ion: 43 Resp: 7956

Ion Ratio Lower Upper

43 100

74 3.0 17.4 26.0#



#20

Methylene Chloride

Concen: 2.598 ug/l

RT: 5.082 min Scan# 1153

Delta R.T. -0.008 min

Lab File: VN067808.D

Acq: 19 Jul 2021 21:17

Tgt Ion: 84 Resp: 11273

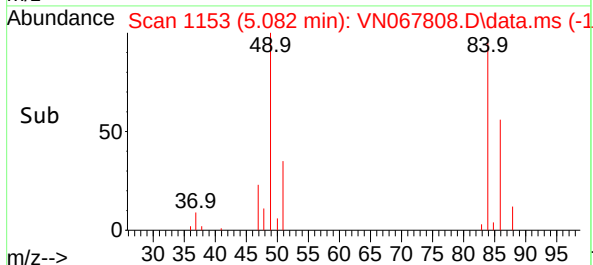
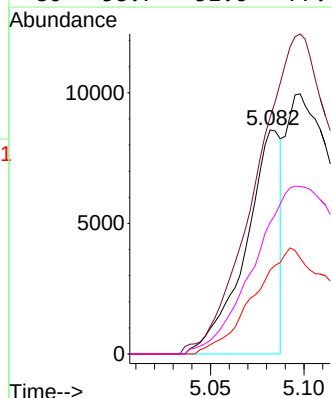
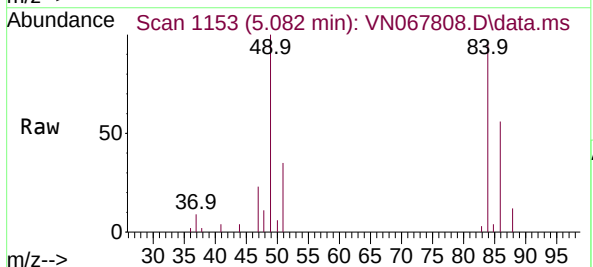
Ion Ratio Lower Upper

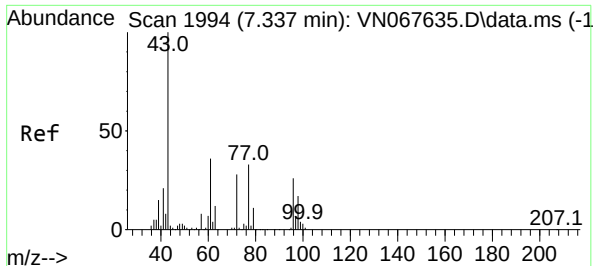
84 100

49 105.8 110.9 166.3#

51 37.5 32.6 49.0

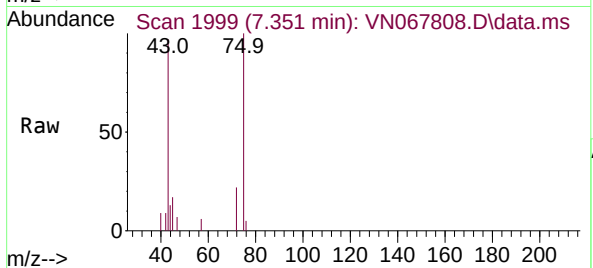
86 58.7 51.6 77.4



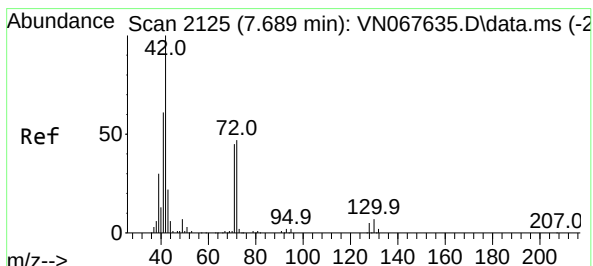
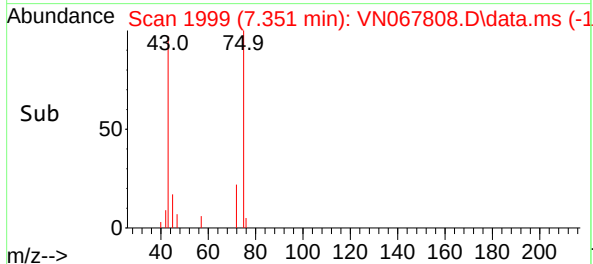
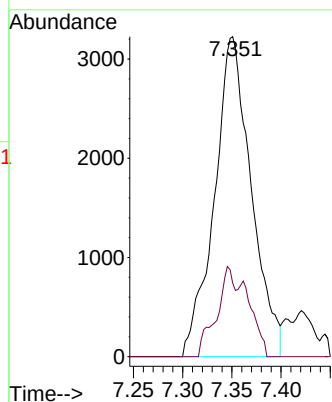


#25
2-Butanone
Concen: 3.421 ug/l
RT: 7.351 min Scan# 1999
Delta R.T. 0.014 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

Instrument :
MSVOA_N
ClientSampled :

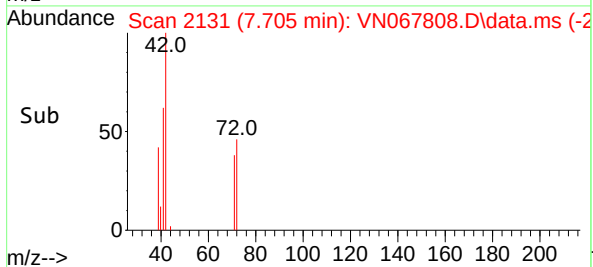
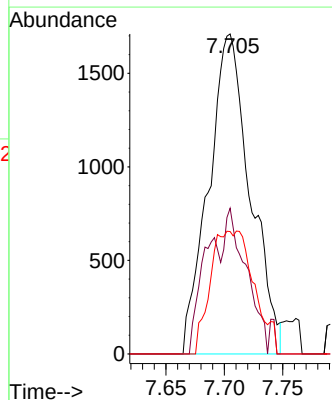
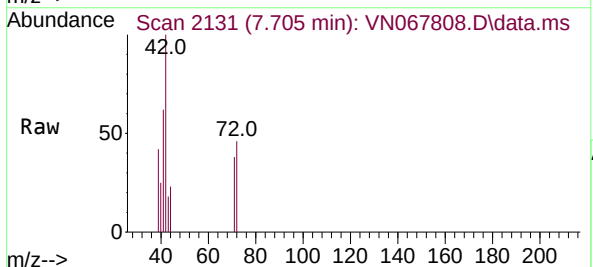


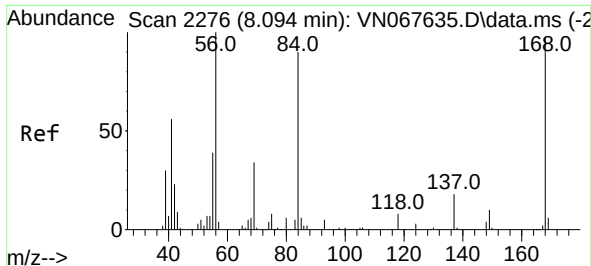
Tgt Ion: 43 Resp: 8419
Ion Ratio Lower Upper
43 100
72 23.0 19.7 29.5



#29
Tetrahydrofuran
Concen: 2.624 ug/l
RT: 7.705 min Scan# 2131
Delta R.T. 0.016 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

Tgt Ion: 42 Resp: 4247
Ion Ratio Lower Upper
42 100
72 24.5 32.8 49.2#
71 21.5 31.2 46.8#

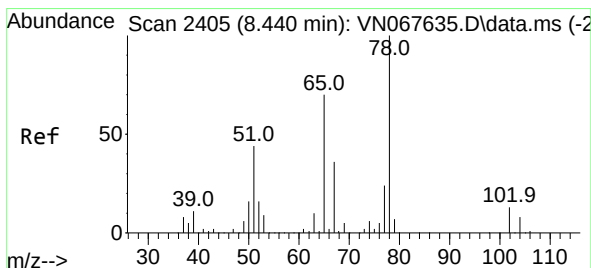
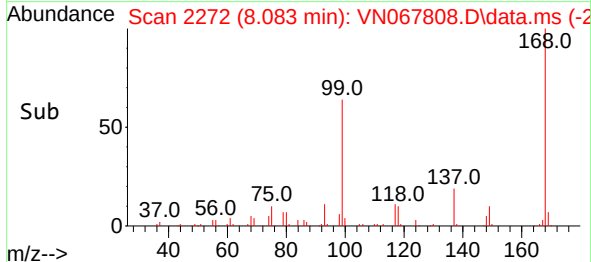
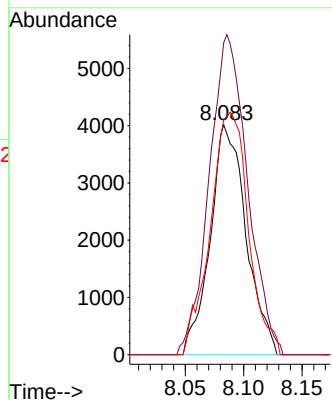
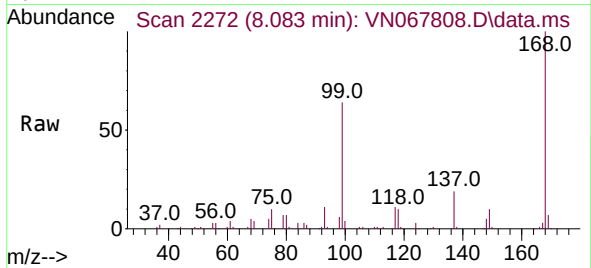




#31
Cyclohexane
Concen: 1.296 ug/l
RT: 8.083 min Scan# 2272
Delta R.T. -0.011 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

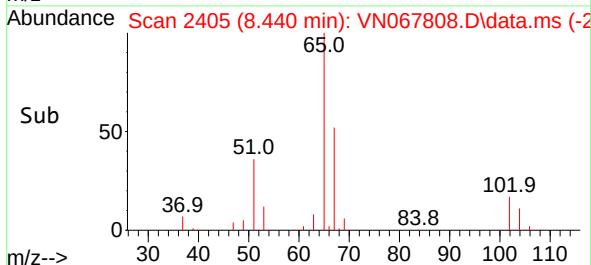
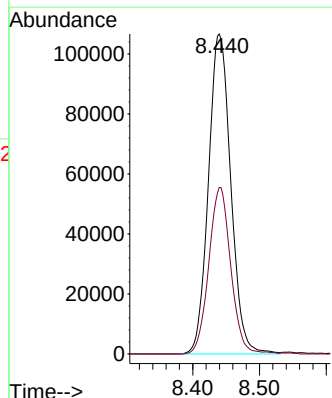
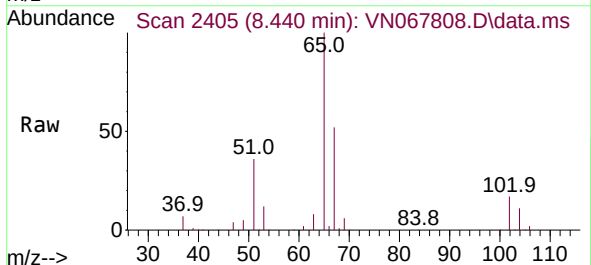
Instrument :
MSVOA_N
ClientSampleId :

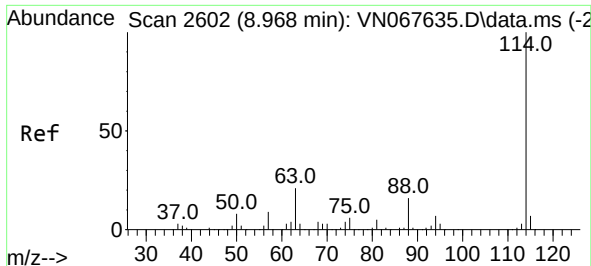
Tgt Ion: 56 Resp: 8560
Ion Ratio Lower Upper
56 100
69 132.0 27.3 40.9#
84 102.2 64.9 97.3#



#33
1,2-Dichloroethane-d4
Concen: 52.725 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

Tgt Ion: 65 Resp: 248370
Ion Ratio Lower Upper
65 100
67 50.8 0.0 98.6

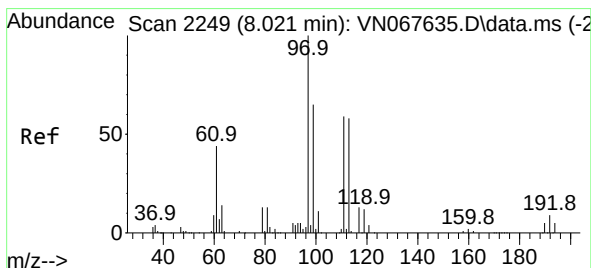
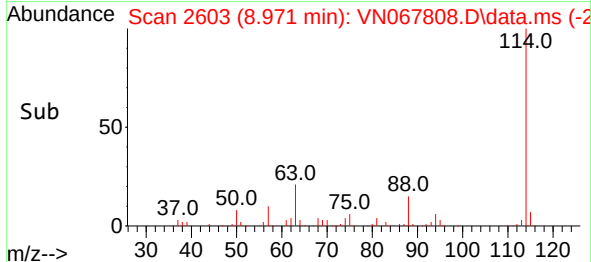
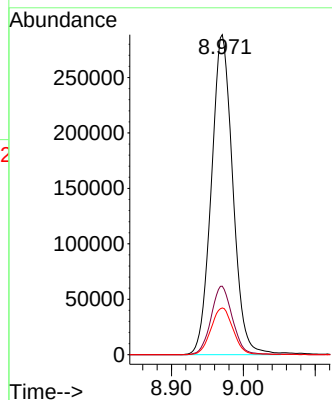
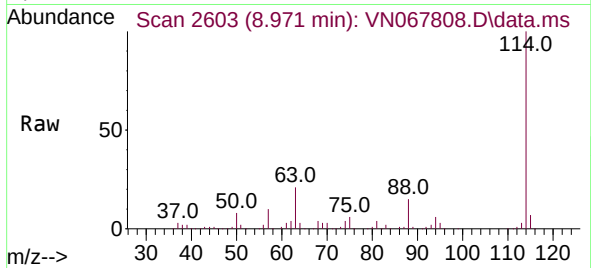




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

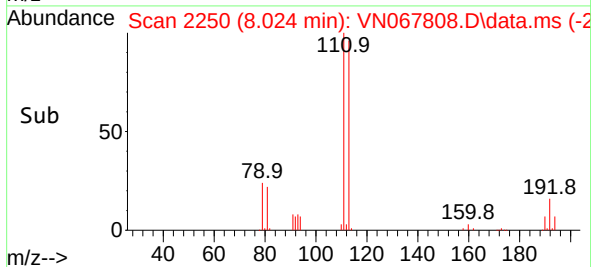
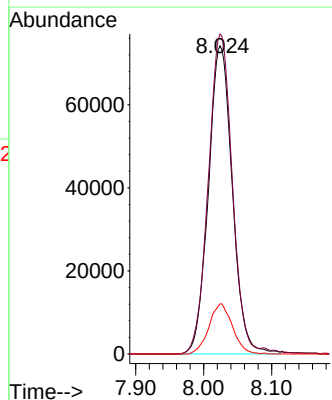
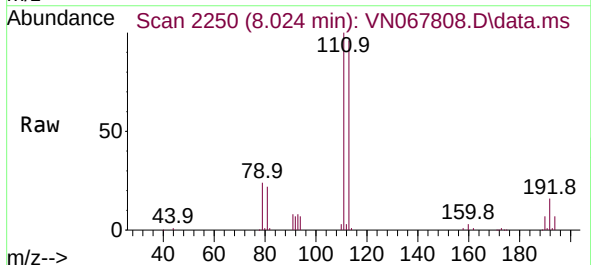
Instrument :
MSVOA_N
ClientSampled :

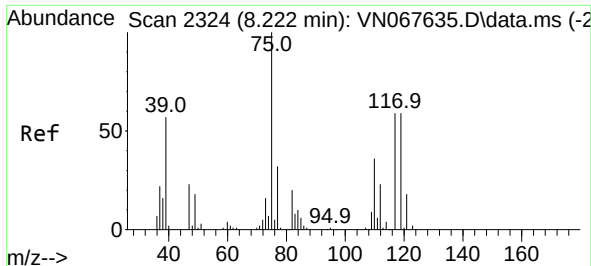
Tgt Ion:114 Resp: 596638
Ion Ratio Lower Upper
114 100
63 21.4 0.0 49.0
88 14.6 0.0 36.6



#35
Dibromofluoromethane
Concen: 50.331 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

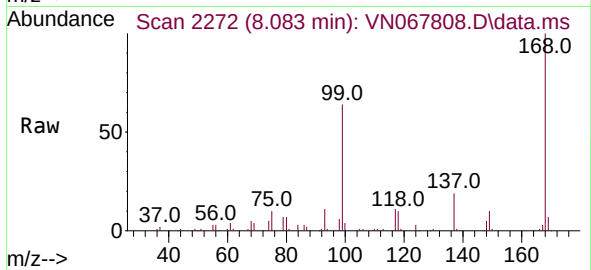
Tgt Ion:113 Resp: 181432
Ion Ratio Lower Upper
113 100
111 103.6 83.8 125.8
192 16.0 13.4 20.0



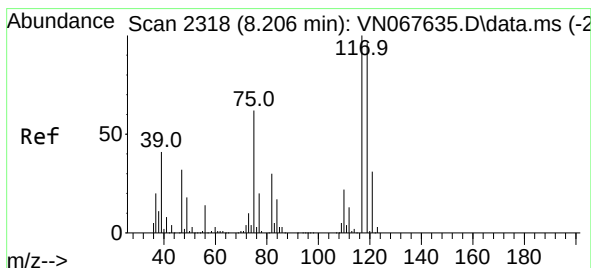
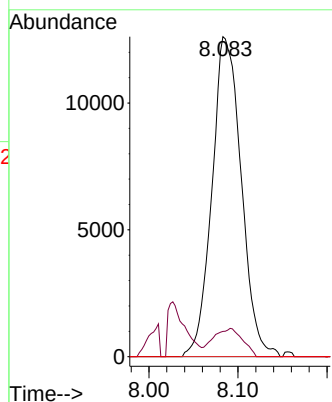
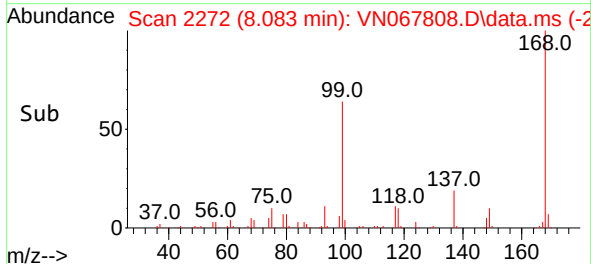


#36
1,1-Dichloropropene
Concen: 5.206 ug/l
RT: 8.083 min Scan# 2272
Delta R.T. -0.139 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

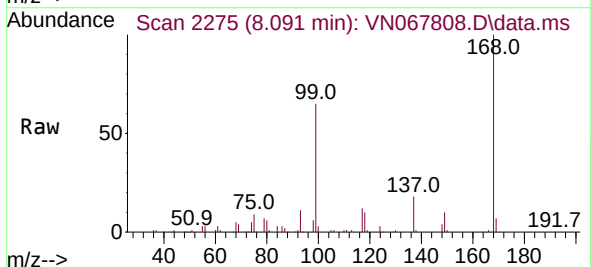
Instrument :
MSVOA_N
ClientSampled :



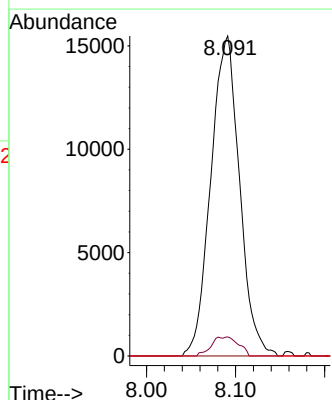
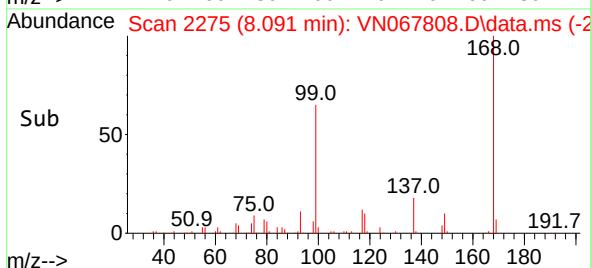
Tgt Ion: 75 Resp: 28850
Ion Ratio Lower Upper
75 100
110 9.0 15.7 47.0#
77 0.0 24.6 37.0#

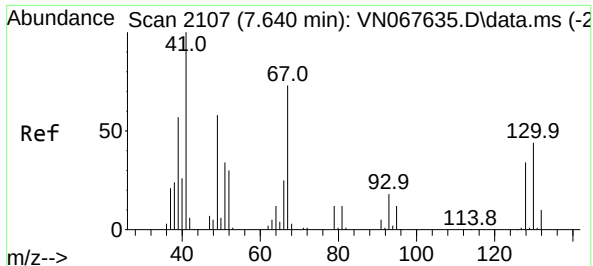


#38
Carbon Tetrachloride
Concen: 6.352 ug/l
RT: 8.091 min Scan# 2275
Delta R.T. -0.115 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17



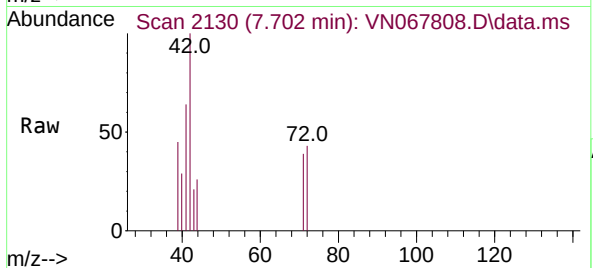
Tgt Ion: 117 Resp: 34723
Ion Ratio Lower Upper
117 100
119 5.9 75.4 113.2#
121 0.0 23.5 35.3#



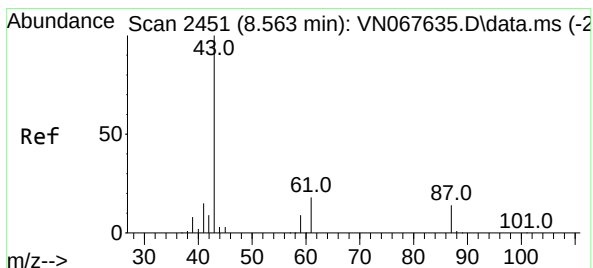
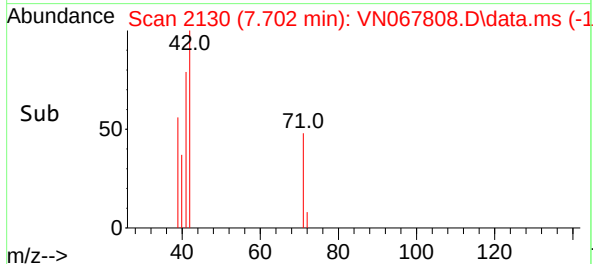
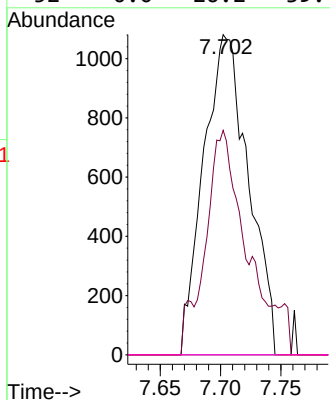


#41
Methacrylonitrile
Concen: 1.015 ug/l
RT: 7.702 min Scan# 2130
Delta R.T. 0.062 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

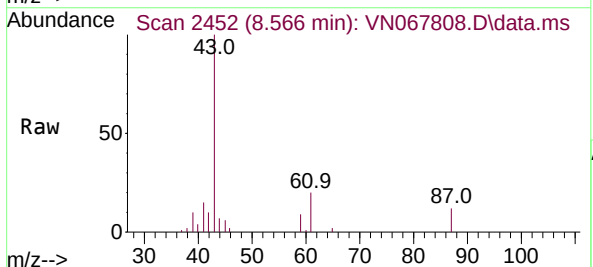
Instrument :
MSVOA_N
ClientSampled :



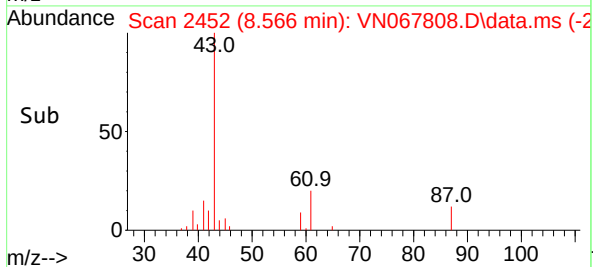
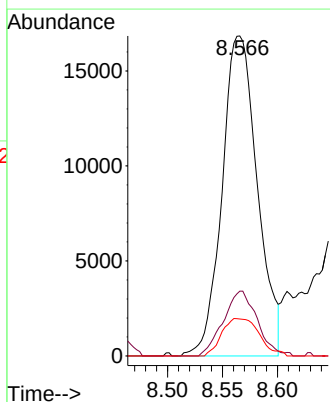
Tgt Ion:	41	Resp:	2800
Ion	Ratio	Lower	Upper
41	100		
39	45.9	47.6	71.4#
67	0.0	57.7	86.5#
52	0.0	26.2	39.4#

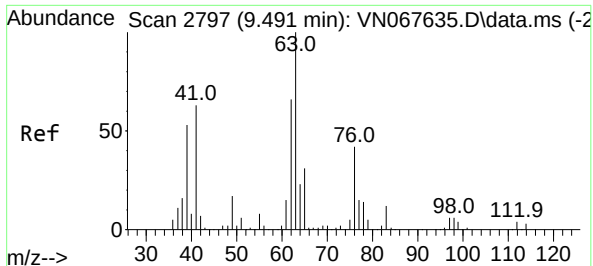


#43
Isopropyl Acetate
Concen: 3.983 ug/l
RT: 8.566 min Scan# 2452
Delta R.T. 0.003 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17



Tgt Ion:	43	Resp:	37627
Ion	Ratio	Lower	Upper
43	100		
61	19.5	19.0	28.4
87	12.4	9.5	14.3

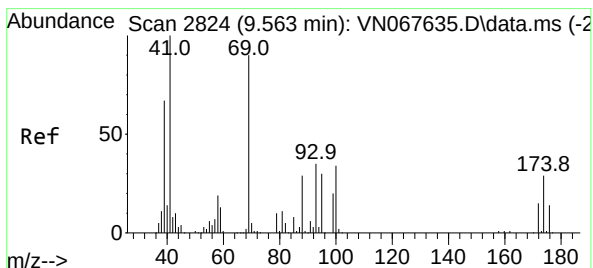
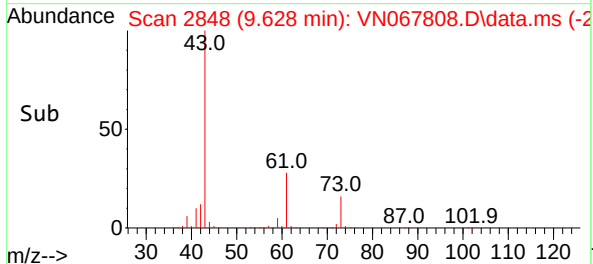
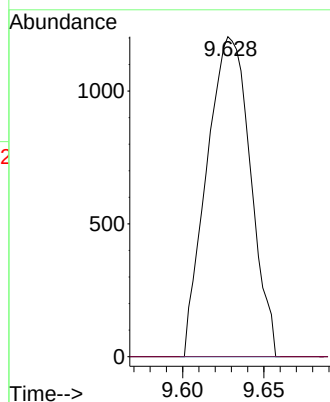
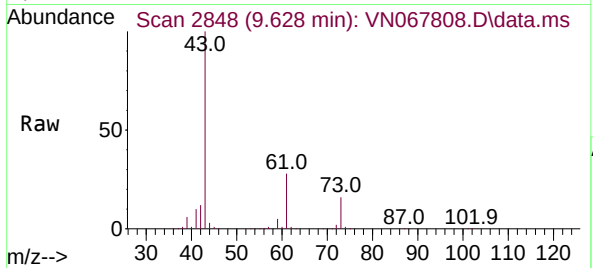




#45
1,2-Dichloropropane
Concen: 0.537 ug/l
RT: 9.628 min Scan# 2848
Delta R.T. 0.137 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

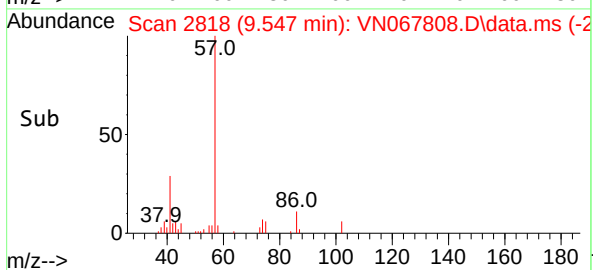
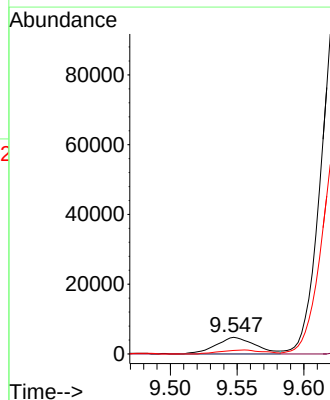
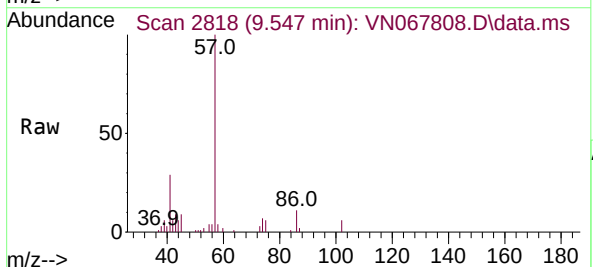
Instrument :
MSVOA_N
ClientSampled :

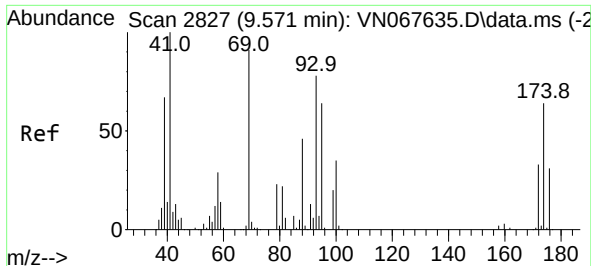
Tgt Ion: 63 Resp: 2255
Ion Ratio Lower Upper
63 100
65 0.0 24.3 36.5#



#48
Methyl methacrylate
Concen: 2.339 ug/l
RT: 9.547 min Scan# 2818
Delta R.T. -0.016 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

Tgt Ion: 41 Resp: 9770
Ion Ratio Lower Upper
41 100
69 0.0 64.6 96.8#
39 0.0 53.3 79.9#

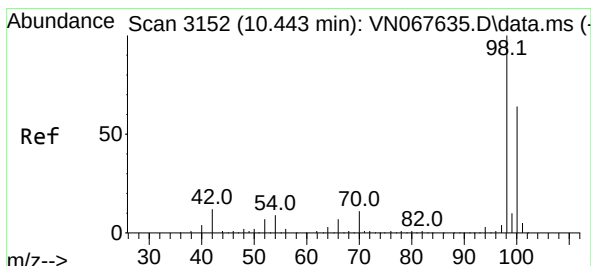
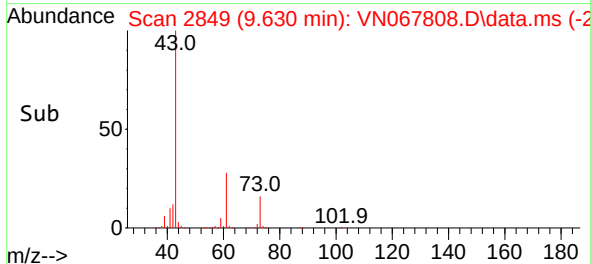
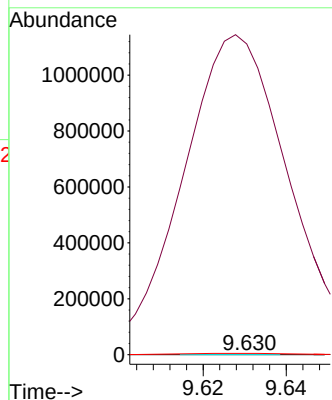
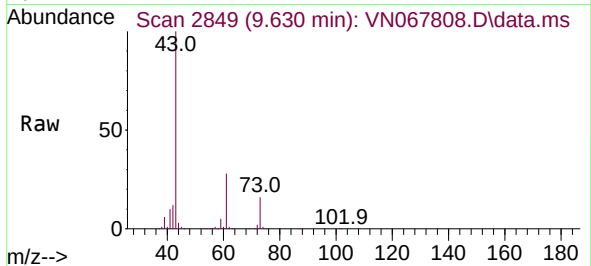




#49
1,4-Dioxane
Concen: 34.602 ug/l
RT: 9.630 min Scan# 2849
Delta R.T. 0.059 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

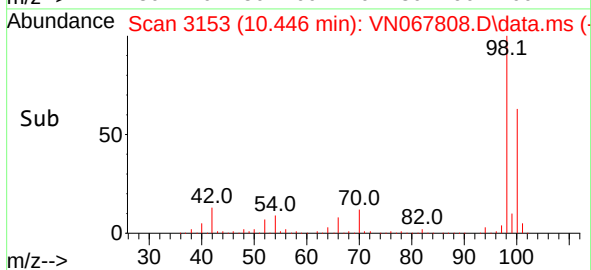
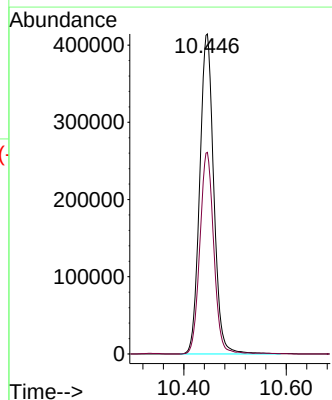
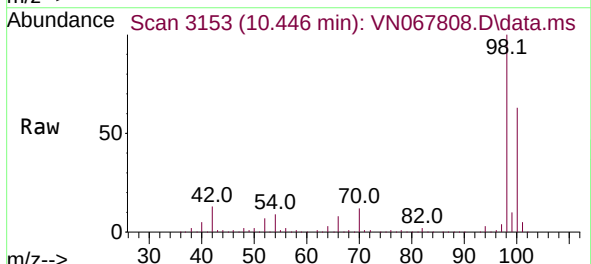
Instrument :
MSVOA_N
ClientSampled :

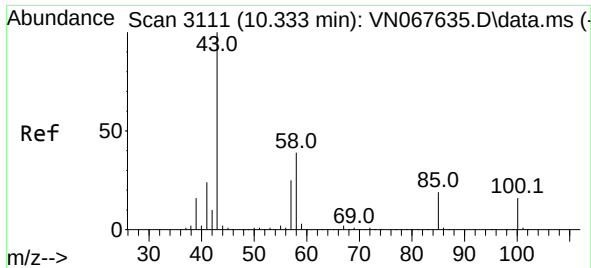
Tgt Ion: 88 Resp: 212
Ion Ratio Lower Upper
88 100
43 1001334.9 28.8 43.2#
58 4332.5 60.4 90.6#



#50
Toluene-d8
Concen: 52.240 ug/l
RT: 10.446 min Scan# 3153
Delta R.T. 0.003 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

Tgt Ion: 98 Resp: 788224
Ion Ratio Lower Upper
98 100
100 62.4 51.7 77.5

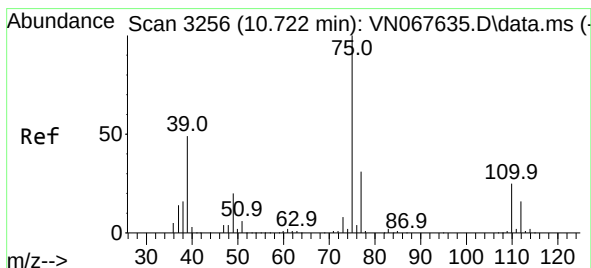
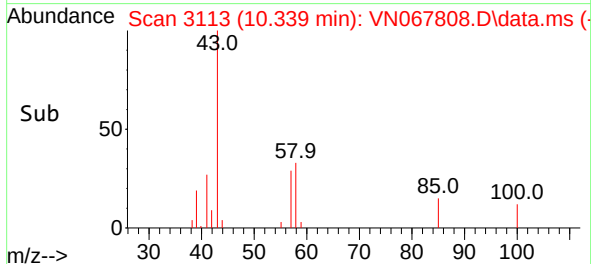
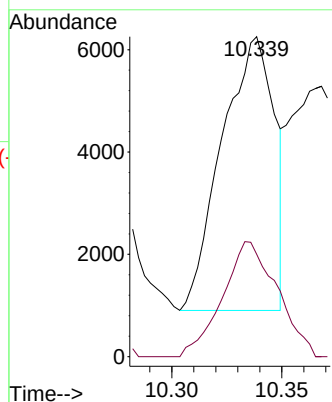
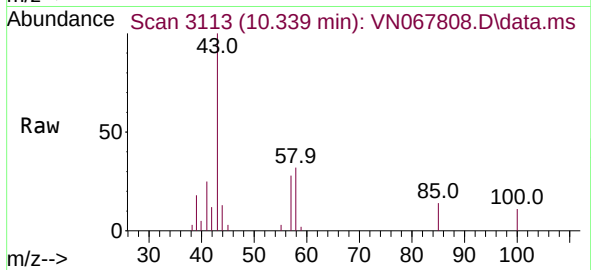




#51
4-Methyl-2-Pentanone
Concen: 1.531 ug/l
RT: 10.339 min Scan# 3113
Delta R.T. 0.006 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

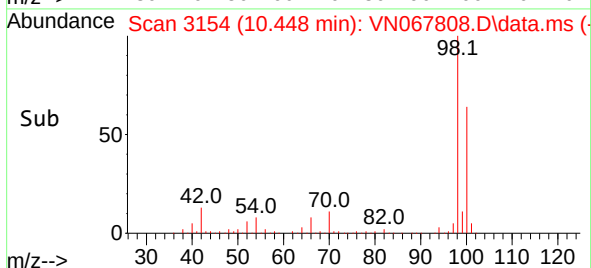
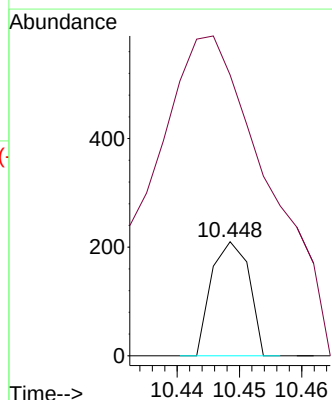
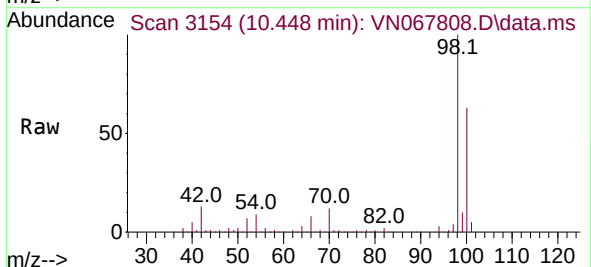
Instrument :
MSVOA_N
ClientSampled :

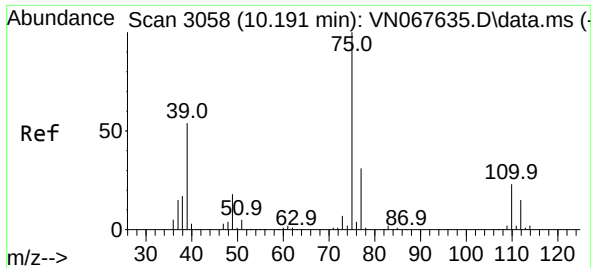
Tgt Ion: 43 Resp: 8884
Ion Ratio Lower Upper
43 100
58 43.7 28.6 43.0#



#53
t-1,3-Dichloropropene
Concen: 1.757 ug/l
RT: 10.448 min Scan# 3154
Delta R.T. -0.274 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

Tgt Ion: 75 Resp: 88
Ion Ratio Lower Upper
75 100
77 114.8 25.1 37.7#

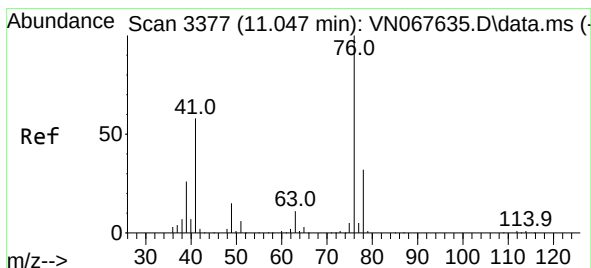
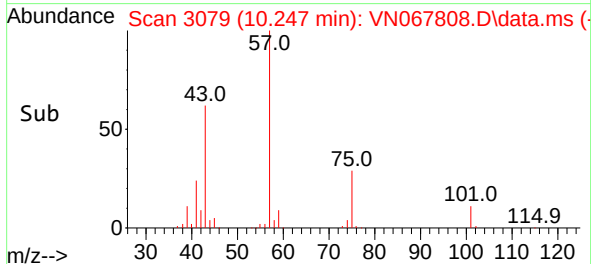
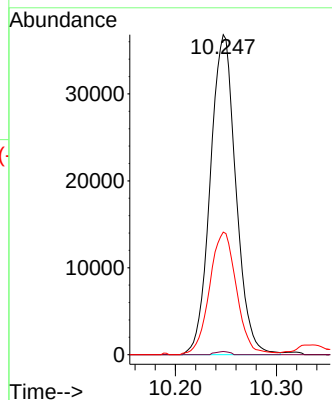
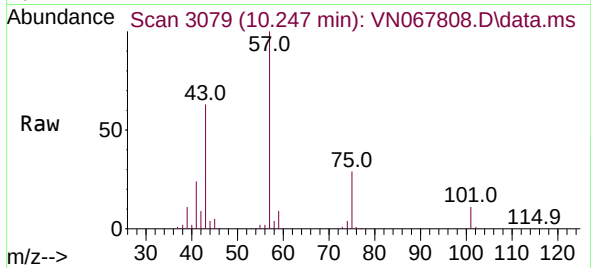




#54
 cis-1,3-Dichloropropene
 Concen: 9.995 ug/l
 RT: 10.247 min Scan# 3079
 Delta R.T. 0.056 min
 Lab File: VN067808.D
 Acq: 19 Jul 2021 21:17

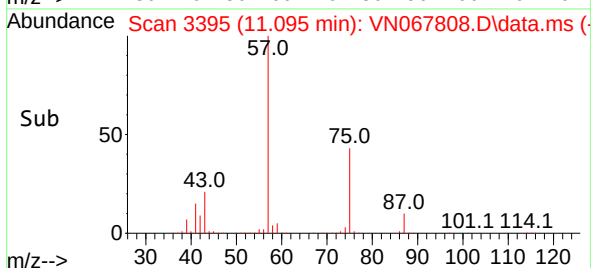
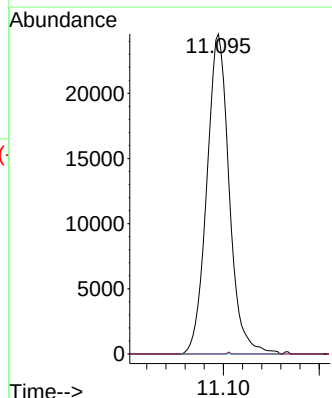
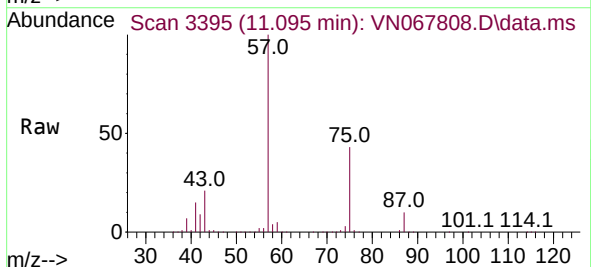
Instrument :
 MSVOA_N
 ClientSampled :

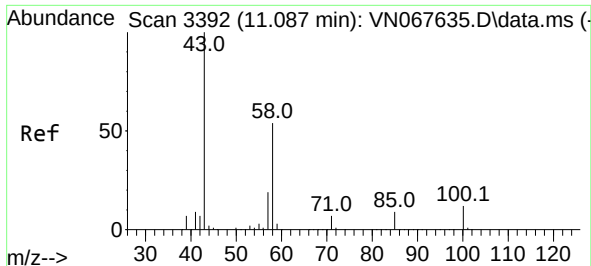
Tgt Ion: 75 Resp: 64759
 Ion Ratio Lower Upper
 75 100
 77 1.0 24.6 37.0#
 39 38.3 50.7 76.1#



#57
 1,3-Dichloropropane
 Concen: 5.588 ug/l
 RT: 11.095 min Scan# 3395
 Delta R.T. 0.048 min
 Lab File: VN067808.D
 Acq: 19 Jul 2021 21:17

Tgt Ion: 76 Resp: 39903
 Ion Ratio Lower Upper
 76 100
 78 0.1 25.7 38.5#

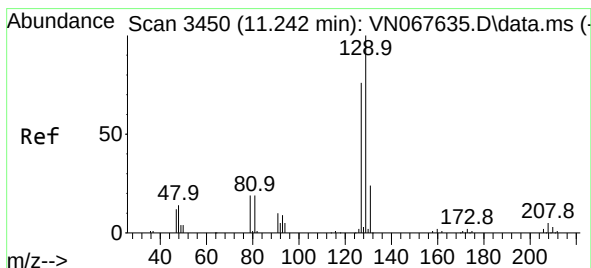
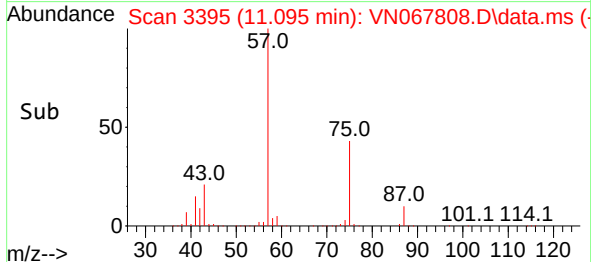
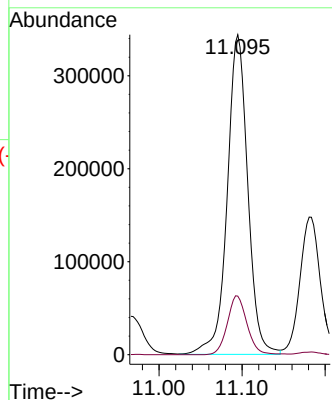
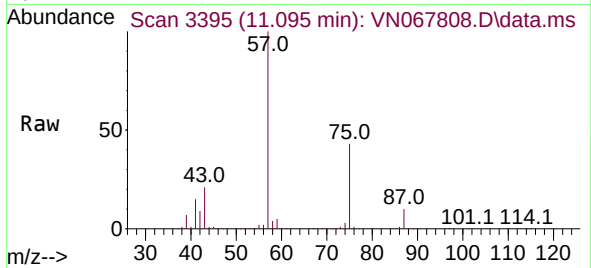




#59
2-Hexanone
Concen: 145.913 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.008 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

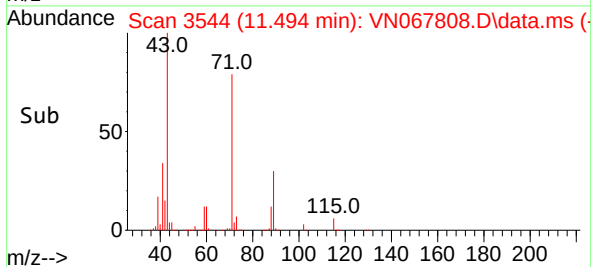
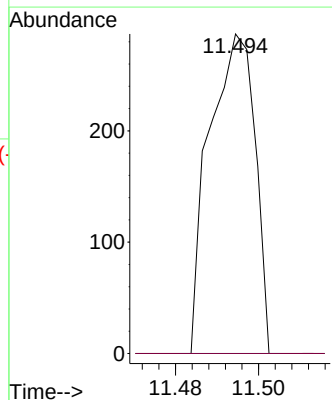
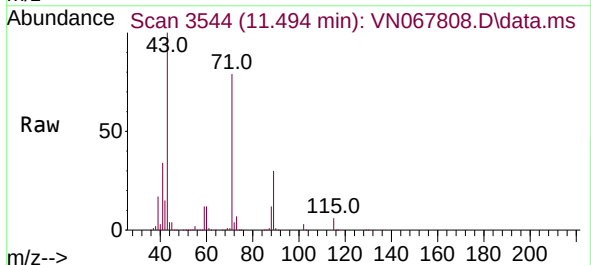
Instrument :
MSVOA_N
ClientSampled :

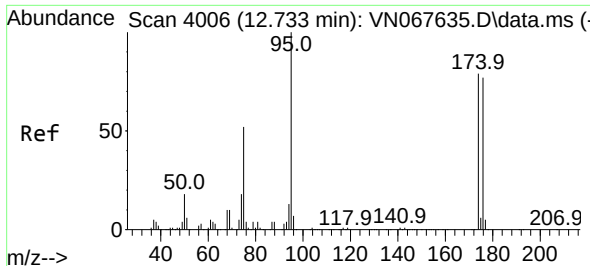
Tgt Ion: 43 Resp: 591043
Ion Ratio Lower Upper
43 100
58 17.7 24.7 74.1#



#60
Dibromochloromethane
Concen: 2.398 ug/l
RT: 11.494 min Scan# 3544
Delta R.T. 0.252 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

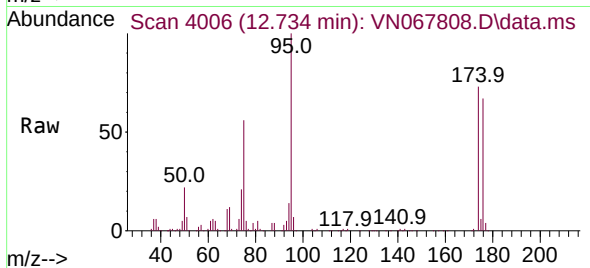
Tgt Ion: 129 Resp: 219
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#



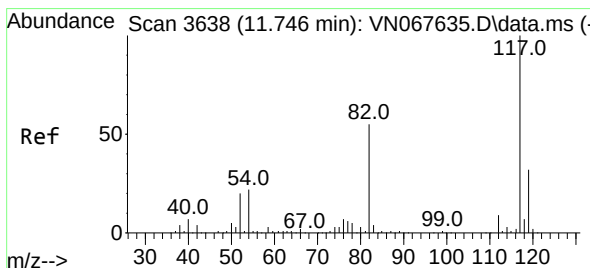
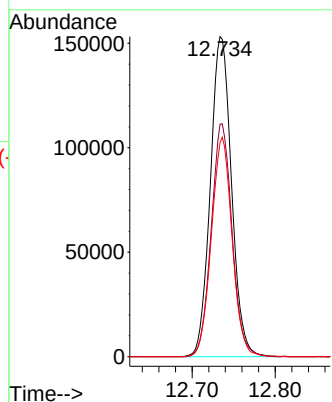
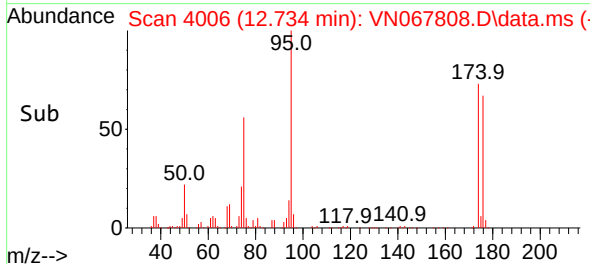


#62
4-Bromofluorobenzene
Concen: 50.778 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.001 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

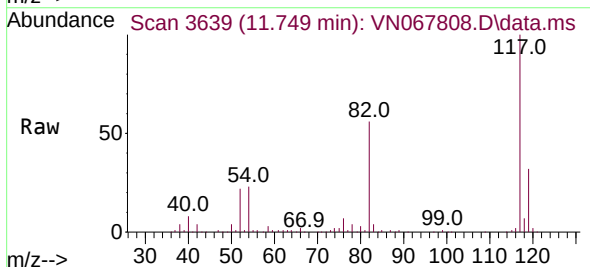
Instrument :
MSVOA_N
ClientSampled :



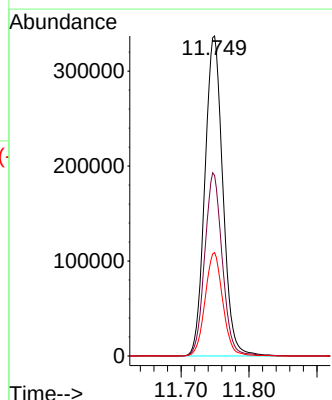
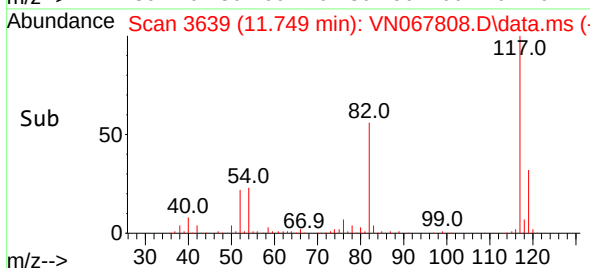
Tgt Ion: 95 Resp: 270655
Ion Ratio Lower Upper
95 100
174 71.9 0.0 122.0
176 67.3 0.0 117.6

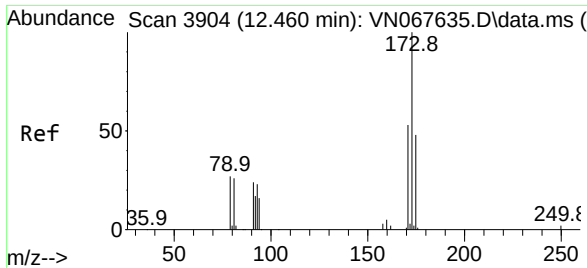


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.003 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17



Tgt Ion: 117 Resp: 619900
Ion Ratio Lower Upper
117 100
82 56.4 53.1 79.7
119 32.3 25.5 38.3

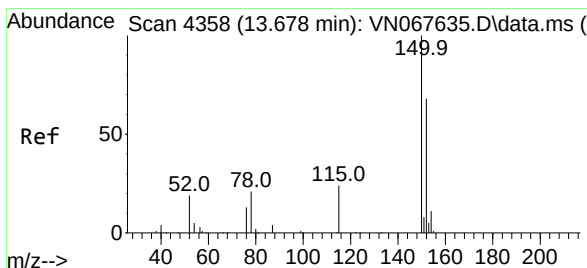
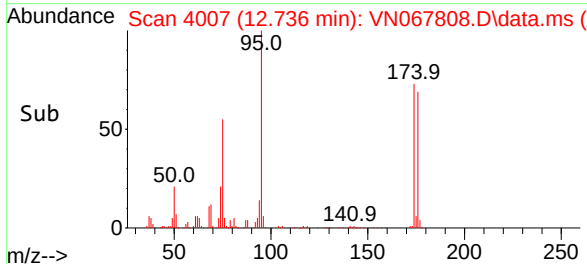
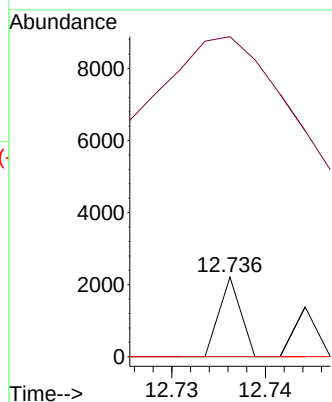
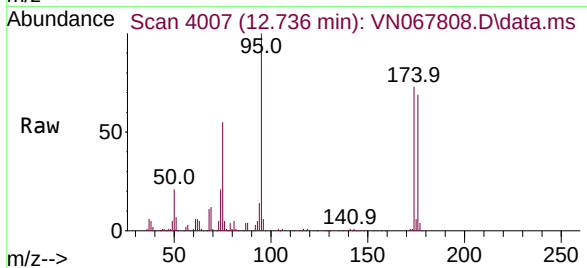




#71
Bromoform
Concen: 3.259 ug/l
RT: 12.736 min Scan# 4007
Delta R.T. 0.276 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

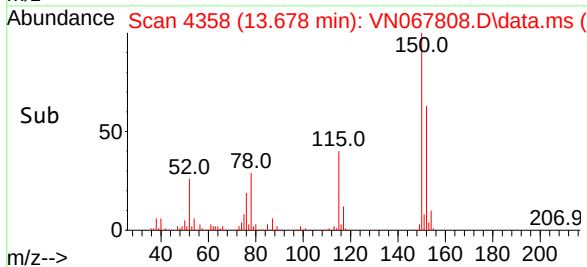
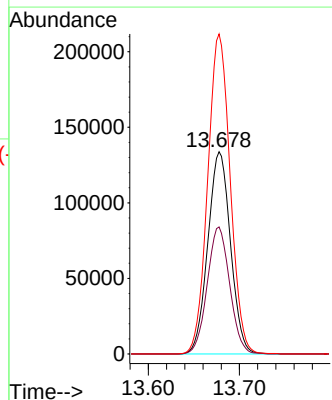
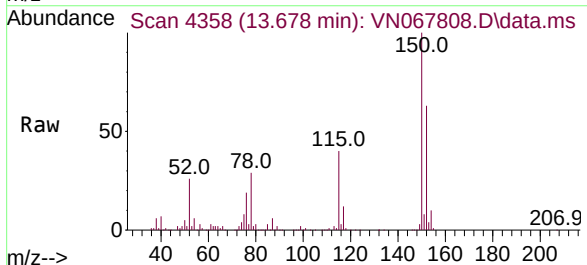
Instrument :
MSVOA_N
ClientSampled :

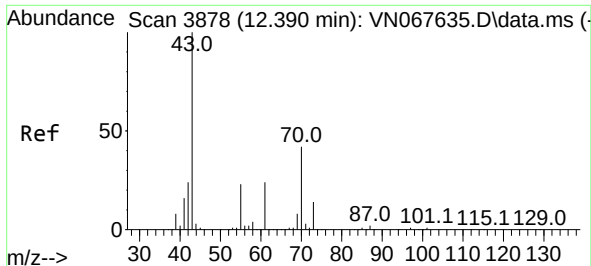
Tgt Ion:173 Resp: 355
Ion Ratio Lower Upper
173 100
175 3968.7 23.9 71.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.000 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

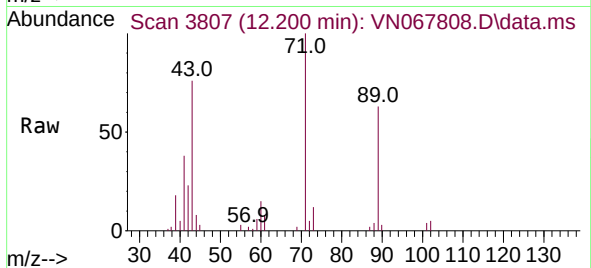
Tgt Ion:152 Resp: 230947
Ion Ratio Lower Upper
152 100
115 62.3 36.1 108.5
150 156.8 0.0 351.8



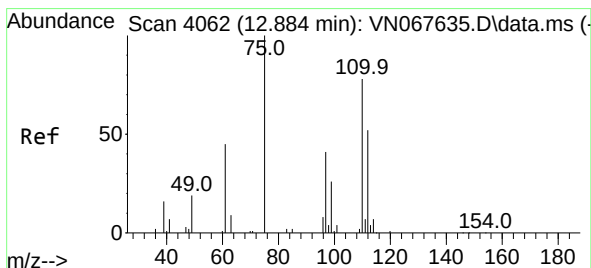
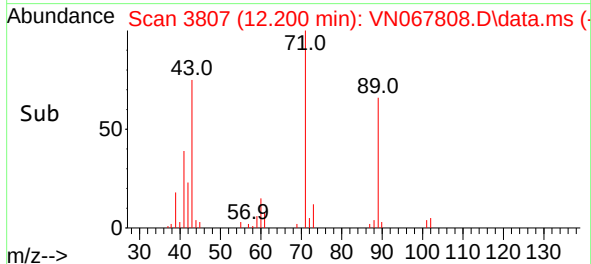
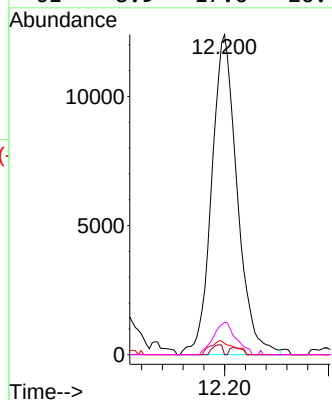


#74
N-amy1 acetate
Concen: 3.129 ug/l
RT: 12.200 min Scan# 3807
Delta R.T. -0.190 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

Instrument :
MSVOA_N
ClientSampleId :

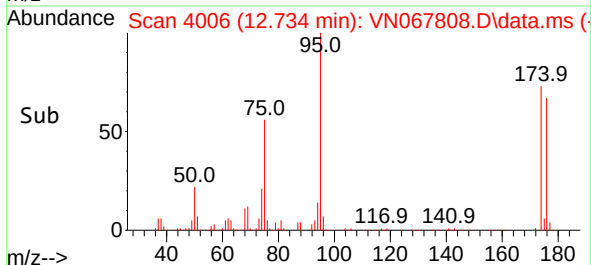
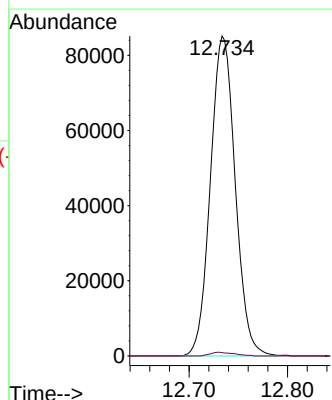
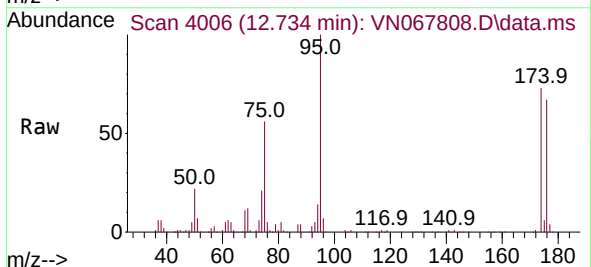


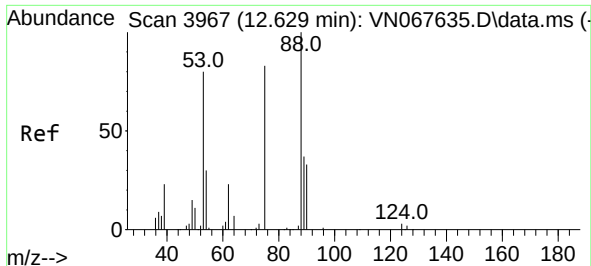
Tgt Ion:	43	Resp:	21149
Ion Ratio	100	Lower	Upper
70	1.2	29.4	44.2#
55	3.9	17.0	25.4#
61	8.9	17.6	26.4#



#76
1,2,3-Trichloropropane
Concen: 31.697 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.150 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

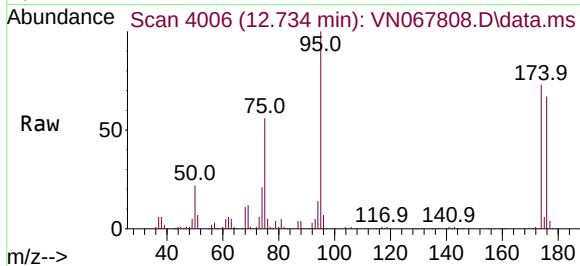
Tgt Ion:	75	Resp:	149493
Ion Ratio	100	Lower	Upper
77	1.1	0.0	0.0#



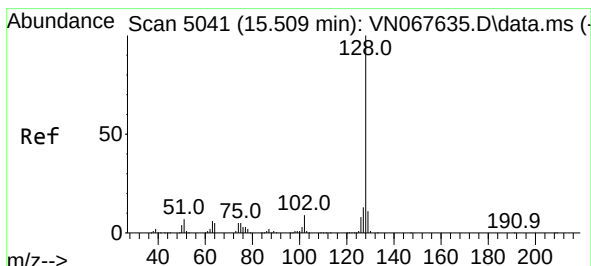
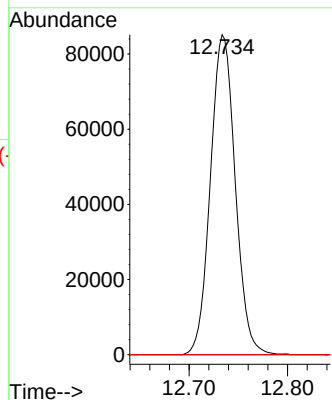
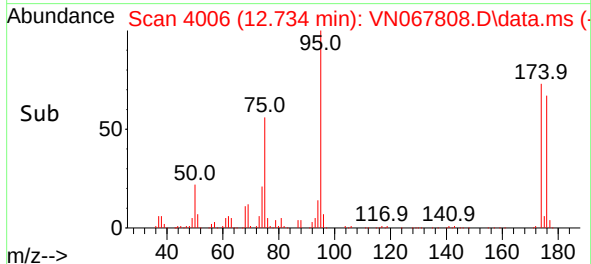


#81
trans-1,4-Dichloro-2-butene
Concen: 102.193 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17

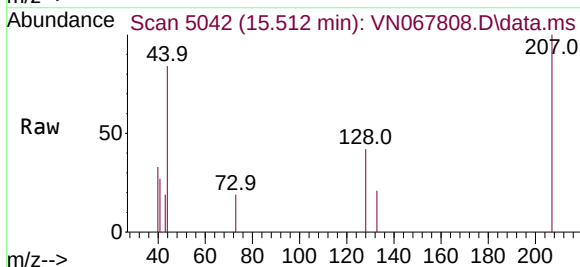
Instrument :
MSVOA_N
ClientSampled :



Tgt Ion: 75 Resp: 149493
Ion Ratio Lower Upper
75 100
53 0.0 87.6 131.4#
89 0.0 37.8 56.8#



#95
Naphthalene
Concen: 3.048 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.003 min
Lab File: VN067808.D
Acq: 19 Jul 2021 21:17



Tgt Ion:128 Resp: 432
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.6 12.8#

