Fig. 1

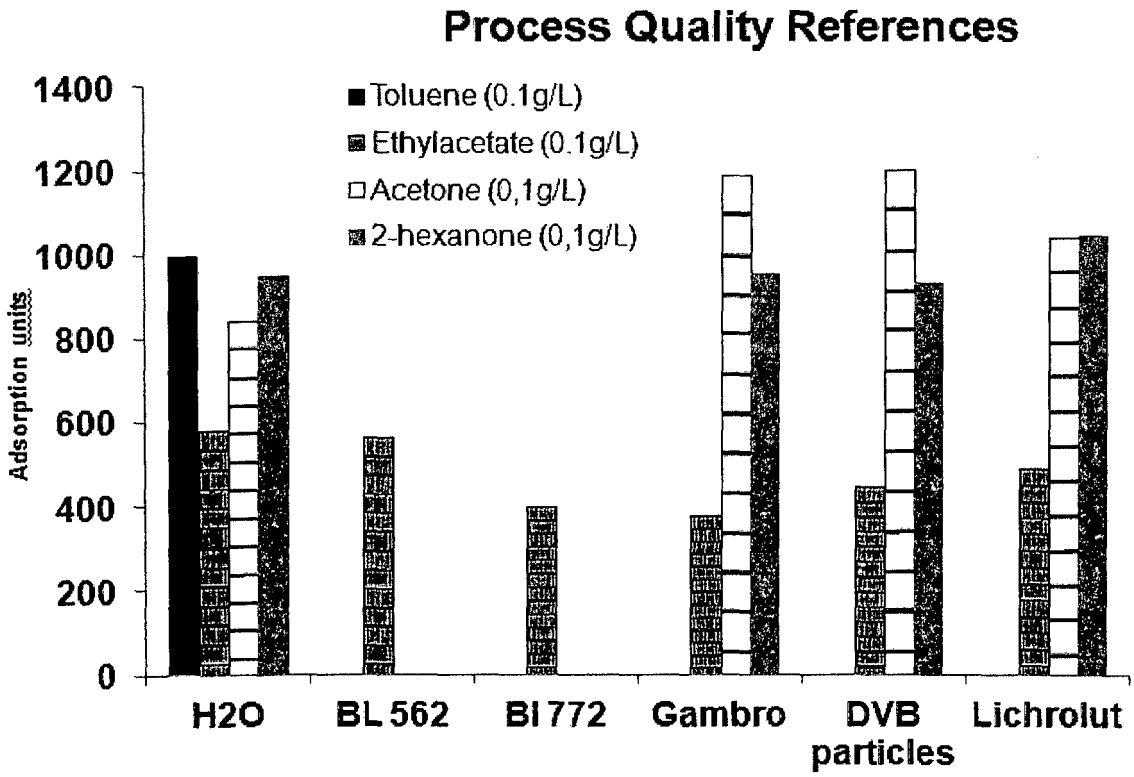

Process Quality References
Toluene (0.1g/L)
Ethylacetate (0.1g/L)
Acetone (0,1g/L)
2-hexanone (0,1g/L)
Adsorption units
1400
1200
1000
800
600
400
200
0
H2O
BL 562
BI 772
Gambro
DVB particles
Lichrolut

Fig. 2

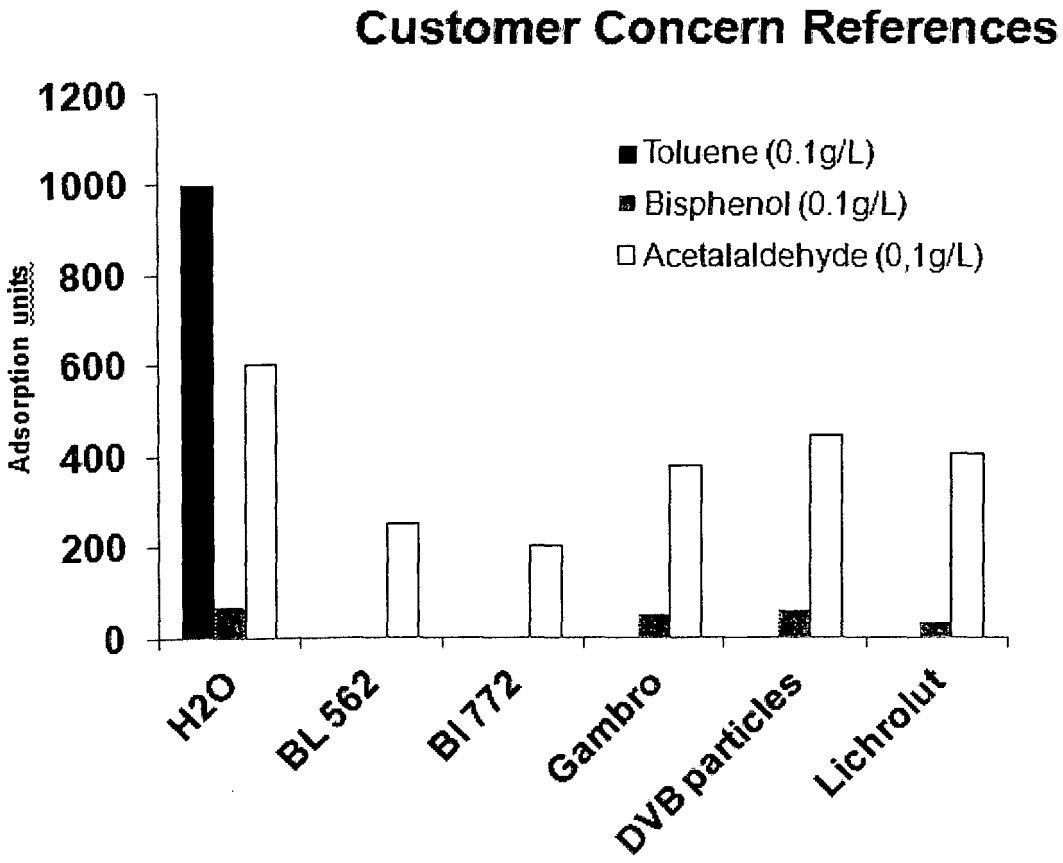

Customer Concern References
1200
1000
800
600
400
200
0
Adsorption units
Toluene (0.1g/L)
Bisphenol (0.1g/L)
Acetalaldehyde (0,1g/L)
H2O
BL 562
BI 772
Gambro
DVB particles
Lichrolut

Fig. 3

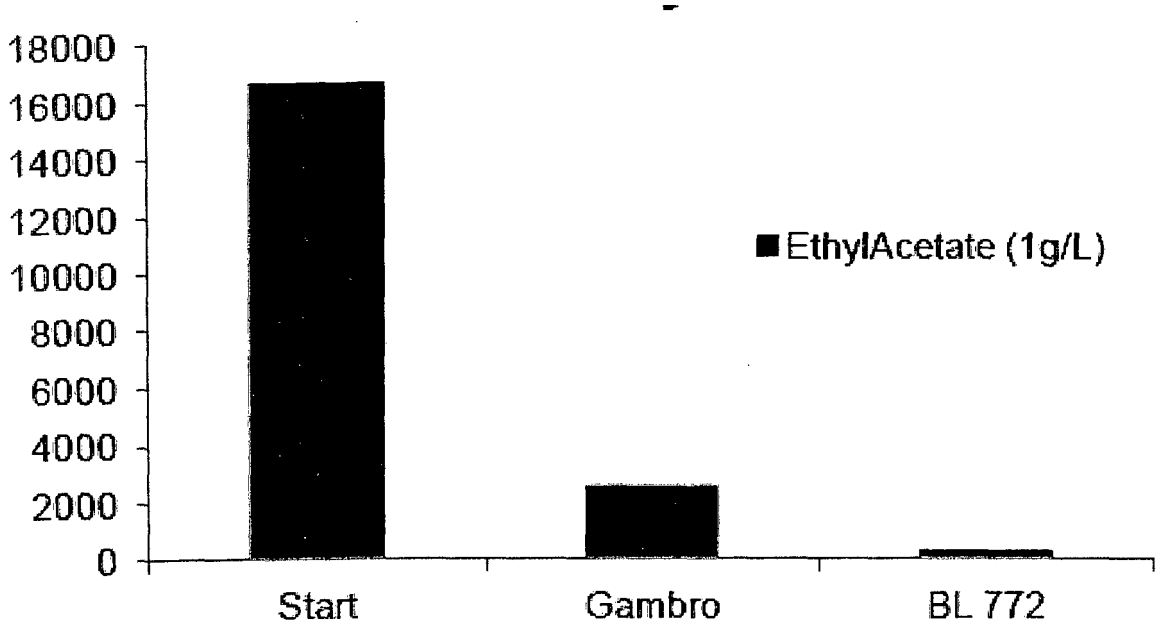

18000
16000
14000
12000
10000
8000
6000
4000
2000
0
EthylAcetate (1g/L)
Start
Gambro
BL 772

Fig. 4

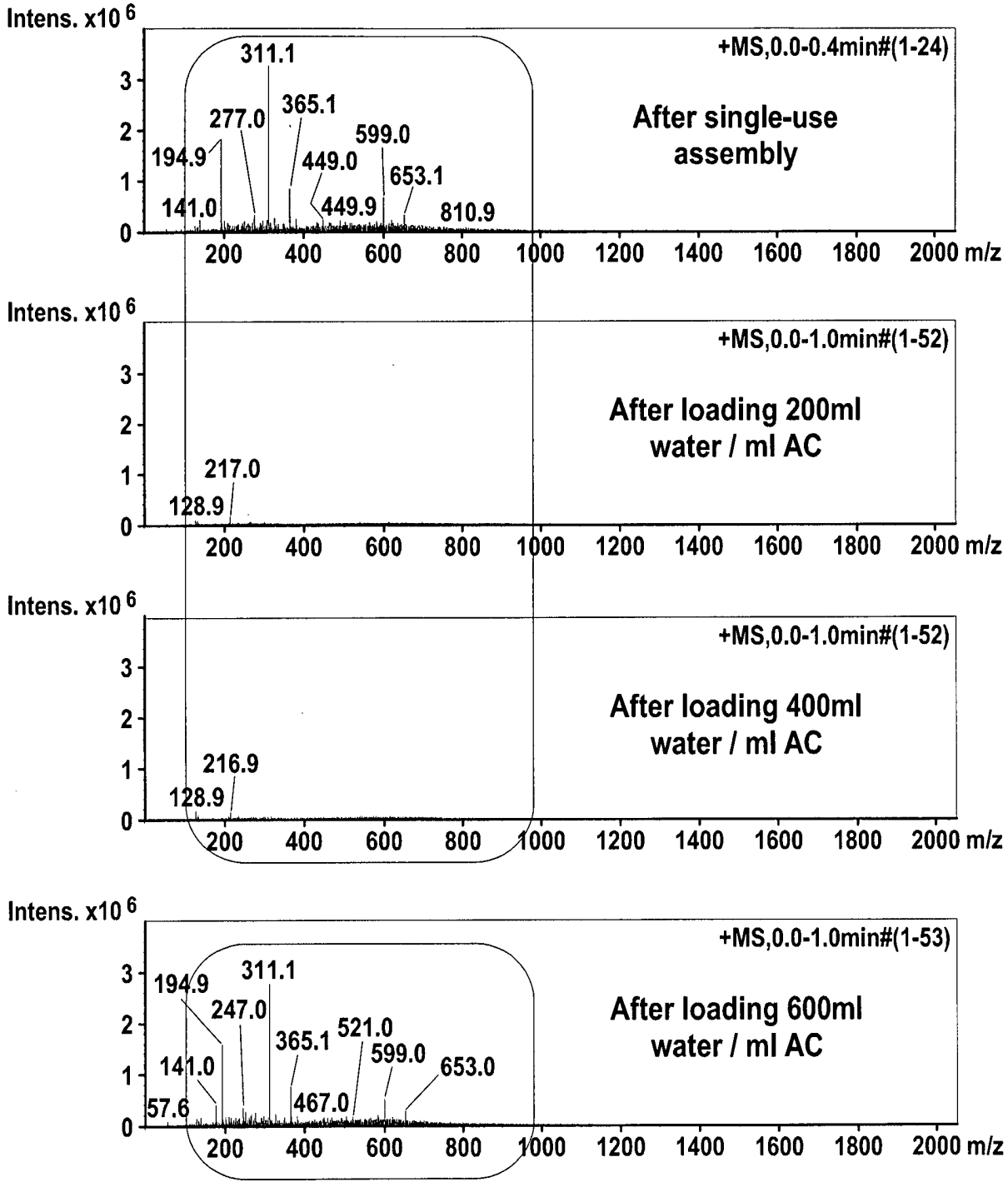
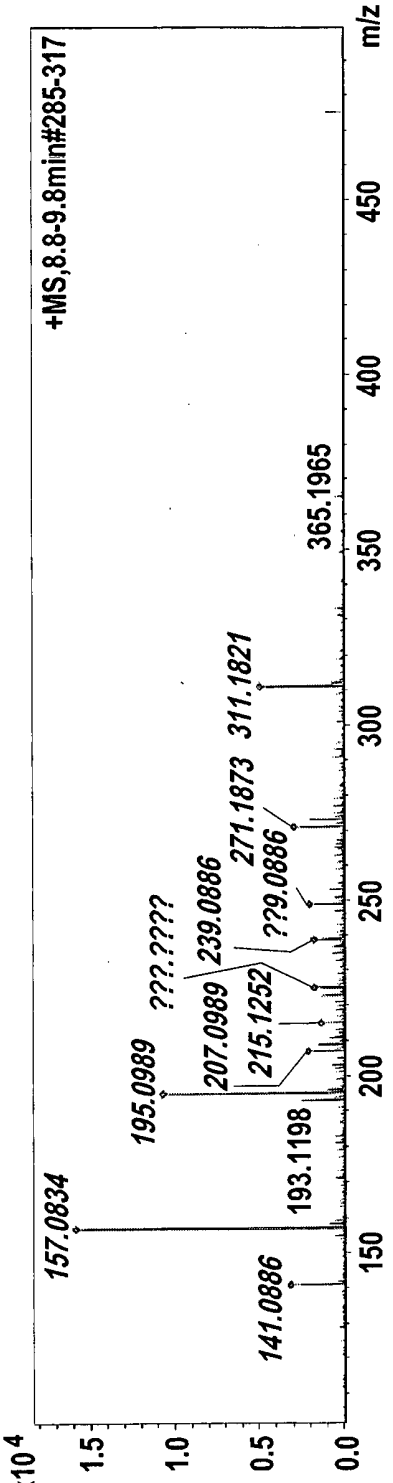
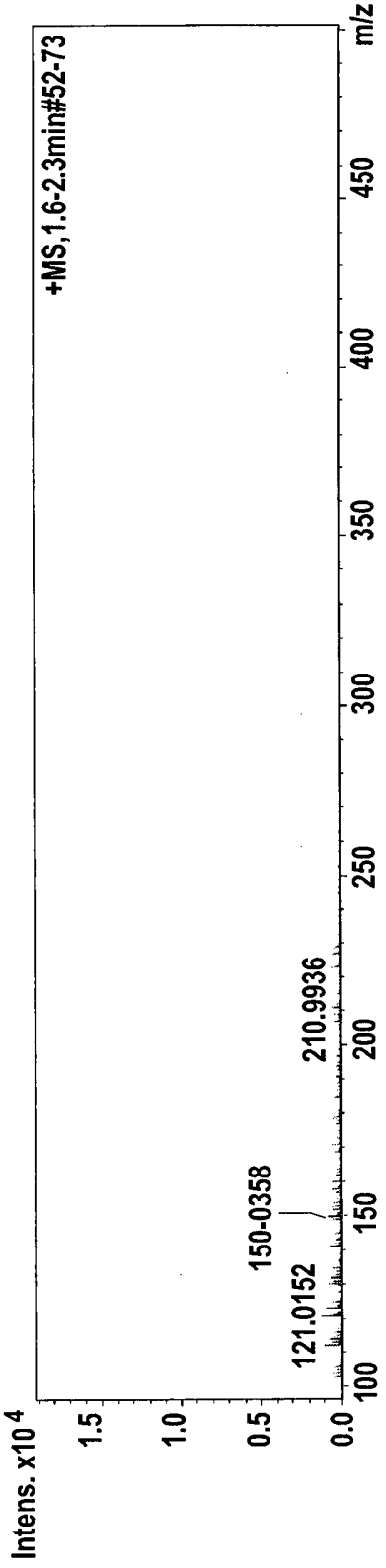

Intens. x10 6
+MS,0.0-0.4min#(1-24)
After single-use assembly
311.1
277.0
365.1
599.0
194.9
449.0
653.1
141.0
449.9
810.9
Intens. x10 6
+MS,0.0-1.0min#(1-52)
After loading 200ml water / ml AC
217.0
128.9
Intens. x10 6
+MS,0.0-1.0min#(1-52)
After loading 400ml water / ml AC
216.9
128.9
Intens. x10 6
+MS,0.0-1.0min#(1-53)
After loading 600ml water / ml AC
194.9
311.1
247.0
365.1
521.0
599.0
653.0
141.0
57.6
467.0
200 400 600 800 1000 1200 1400 1600 1800 2000 m/z

Fig. 5 Part 1

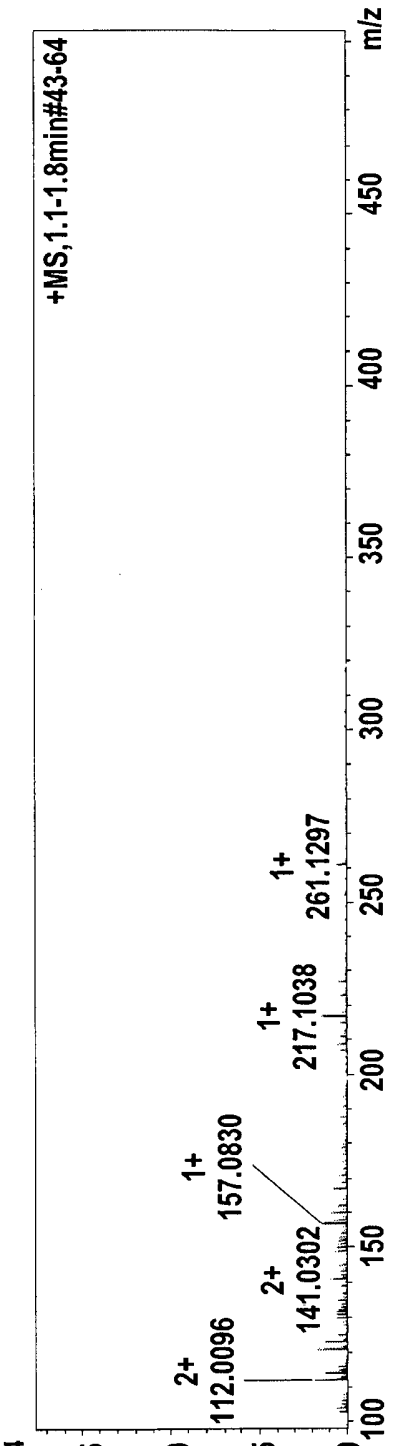



a) MS analysis of sample after single-use assembly

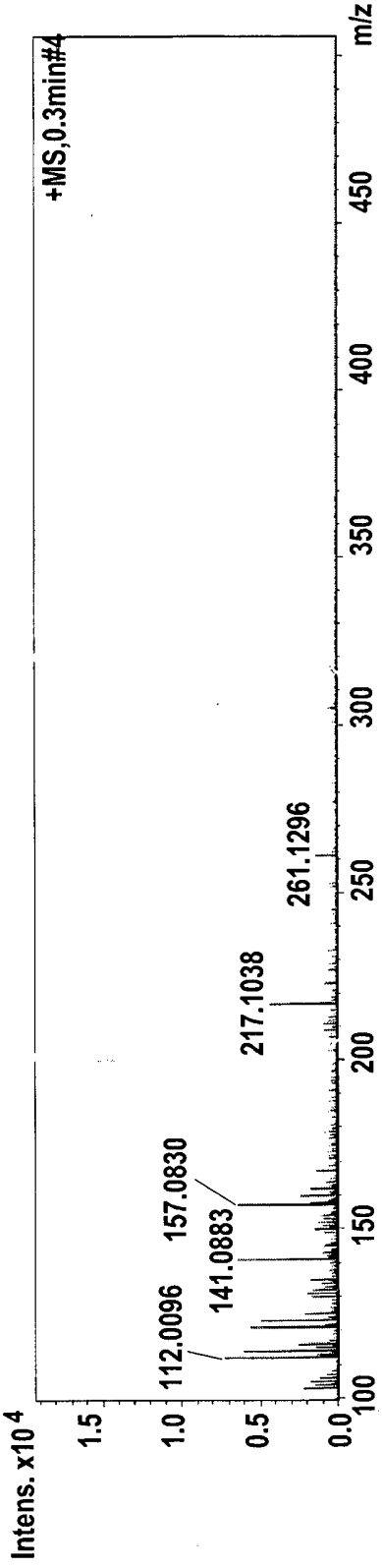



b) MS analysis of a singel-use assembly water sample after charging it at 40 ml to cm" of Millistak® CR40 filter

Fig. 5 Part 2

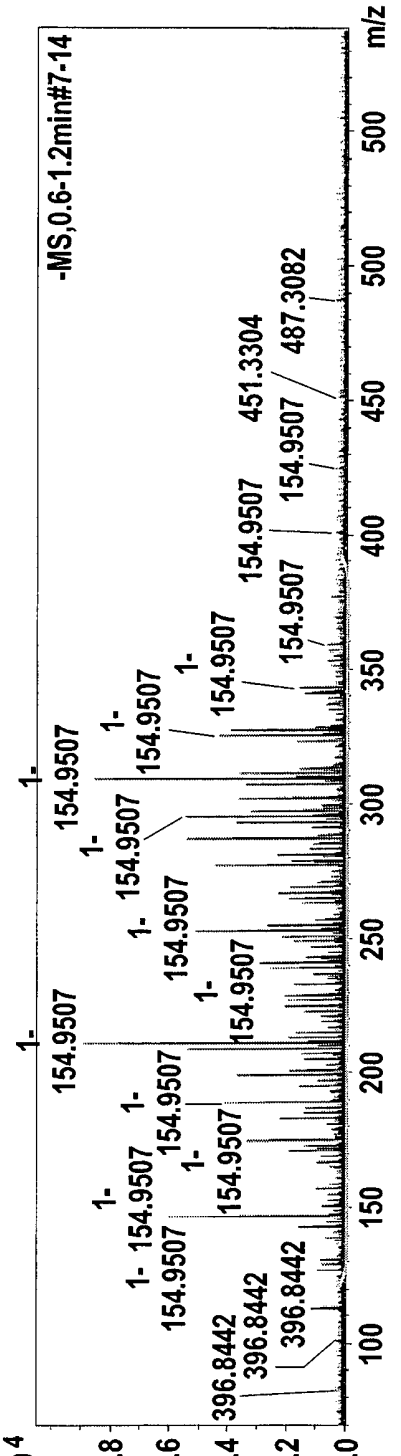



c) MS analysis of a singel-use assembly water sample after charging it at 80 ml to cm" of Millistak® CR40 filter

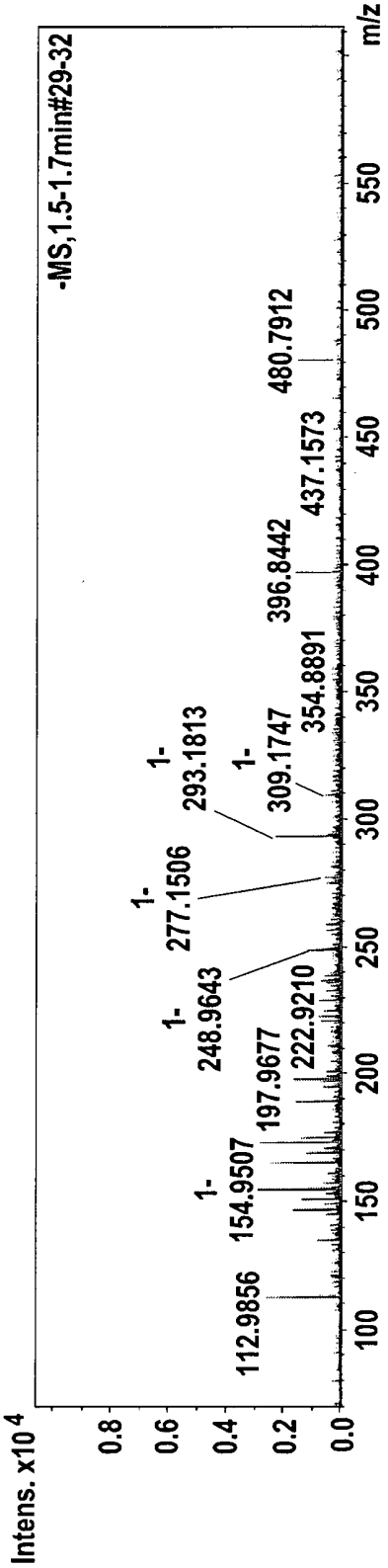



d) MS analysis of a singel-use assembly water sample after charging it at 120 ml to cm" of Millistak® CR40 filter

Fig. 6 Part 1

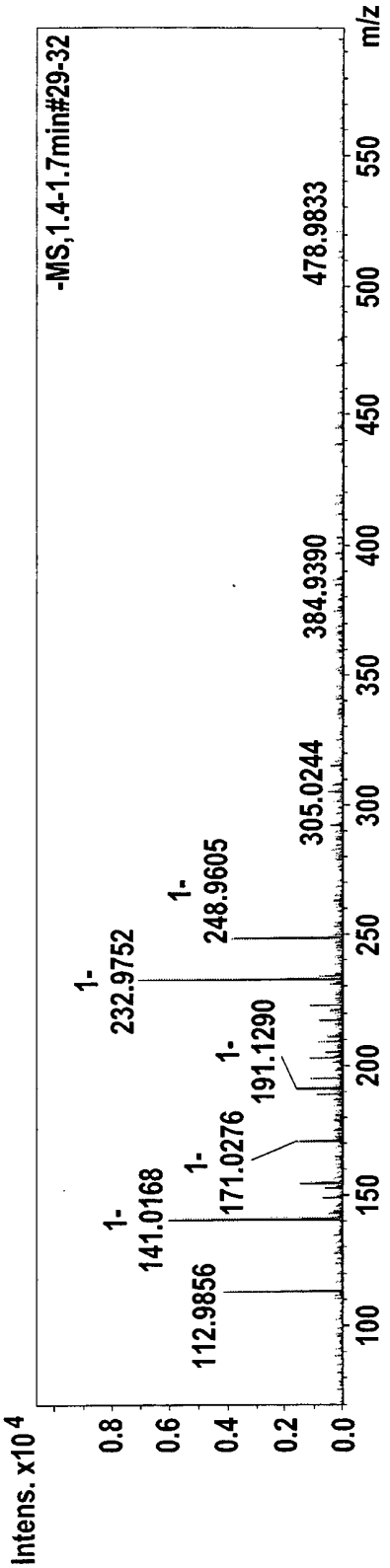



a) MS analysis of sample after single-use assembly



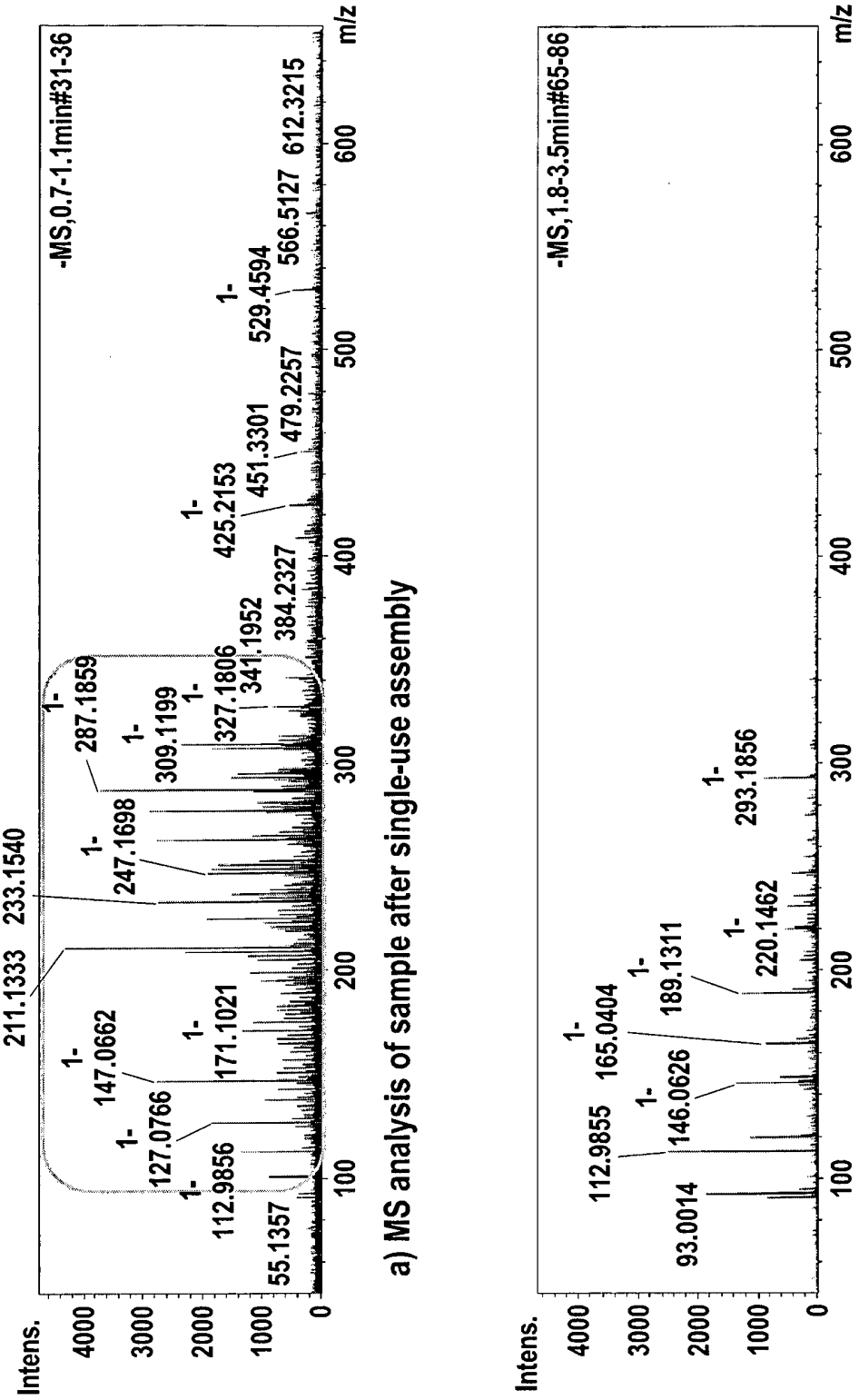

b) MS analysis of a singel-use assembly water sample after charging it at 40 ml to cm" of Millistak® CR40 filter

Fig. 6 Part 2




c) Water after MilliQ water purification system

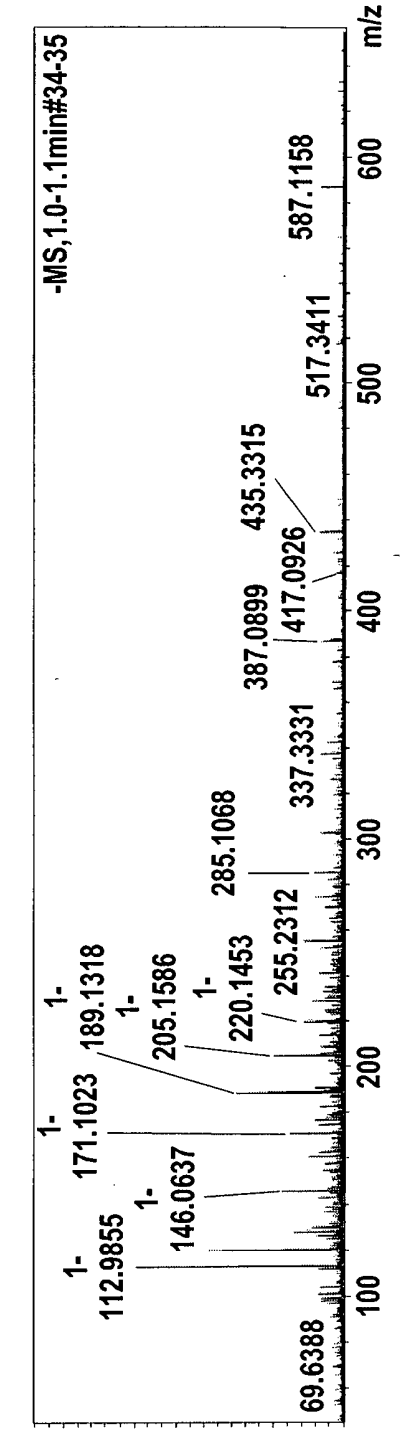
Fig. 7 Part 1




a) MS analysis of sample after single-use assembly

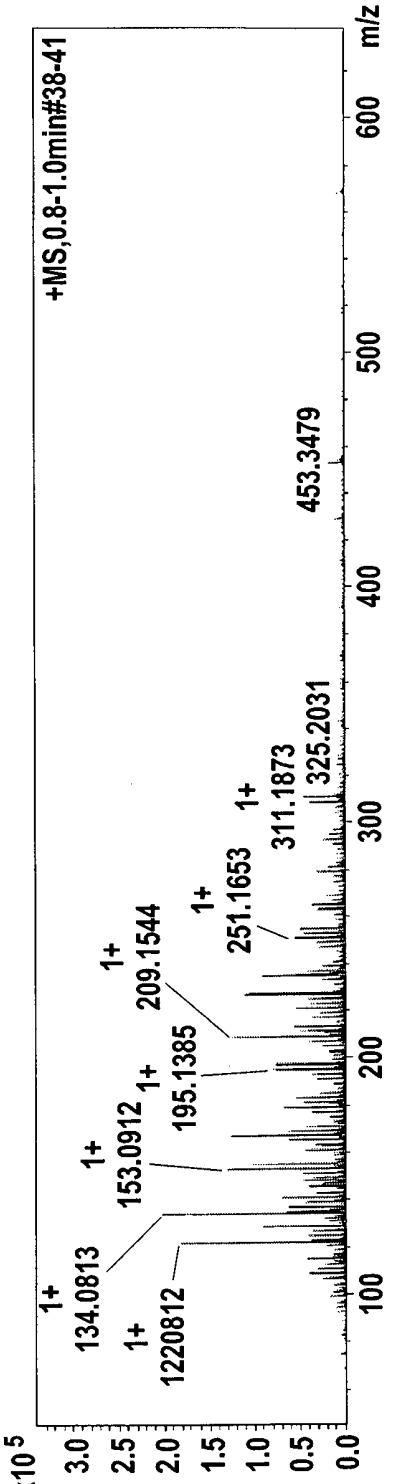
b) MS analysis of a singel-use assembly water sample after charging it at 40 ml to cm" of Millistak® CR40 filter

Fig. 7 Part 2

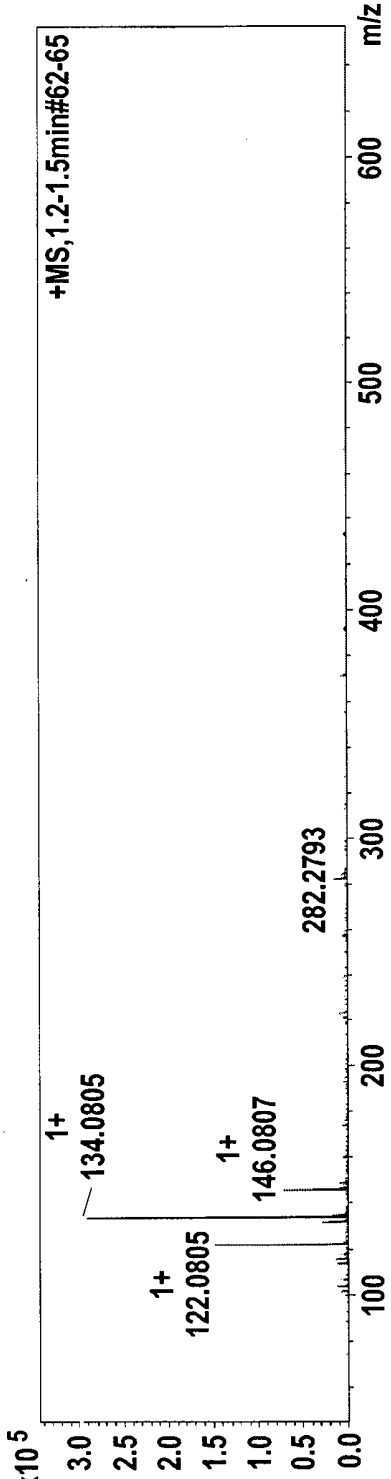



c) Water after MilliQ water purification system

Fig. 8 Part 1

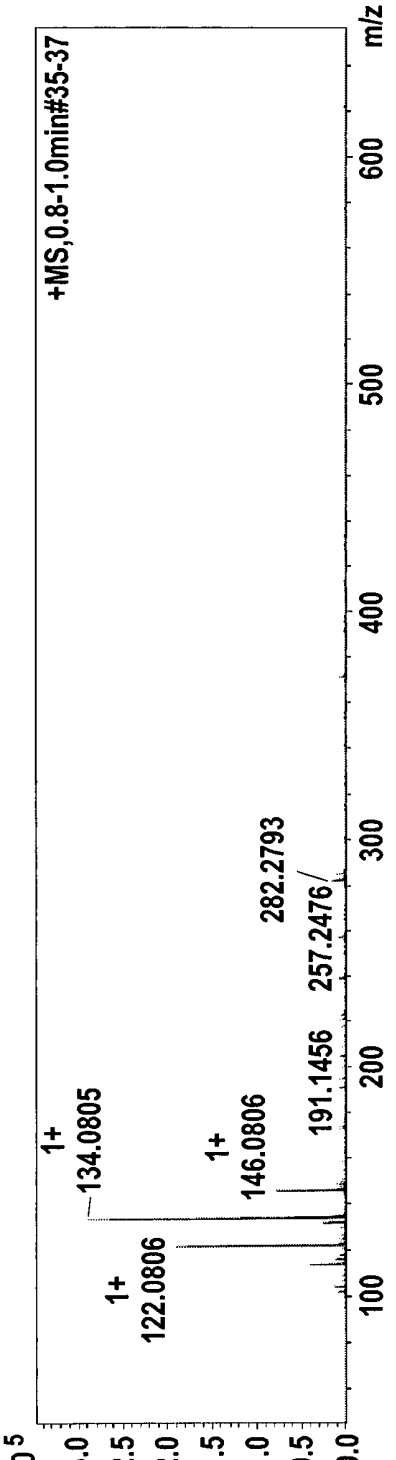



a) MS analysis of sample after single-use assembly




b) MS analysis of a singel-use assembly water sample after charging it at 40 ml to cm" of Millistak® CR40 filter

Fig. 8 Part 2




c) Water after MilliQ water purification system

Fig. 9

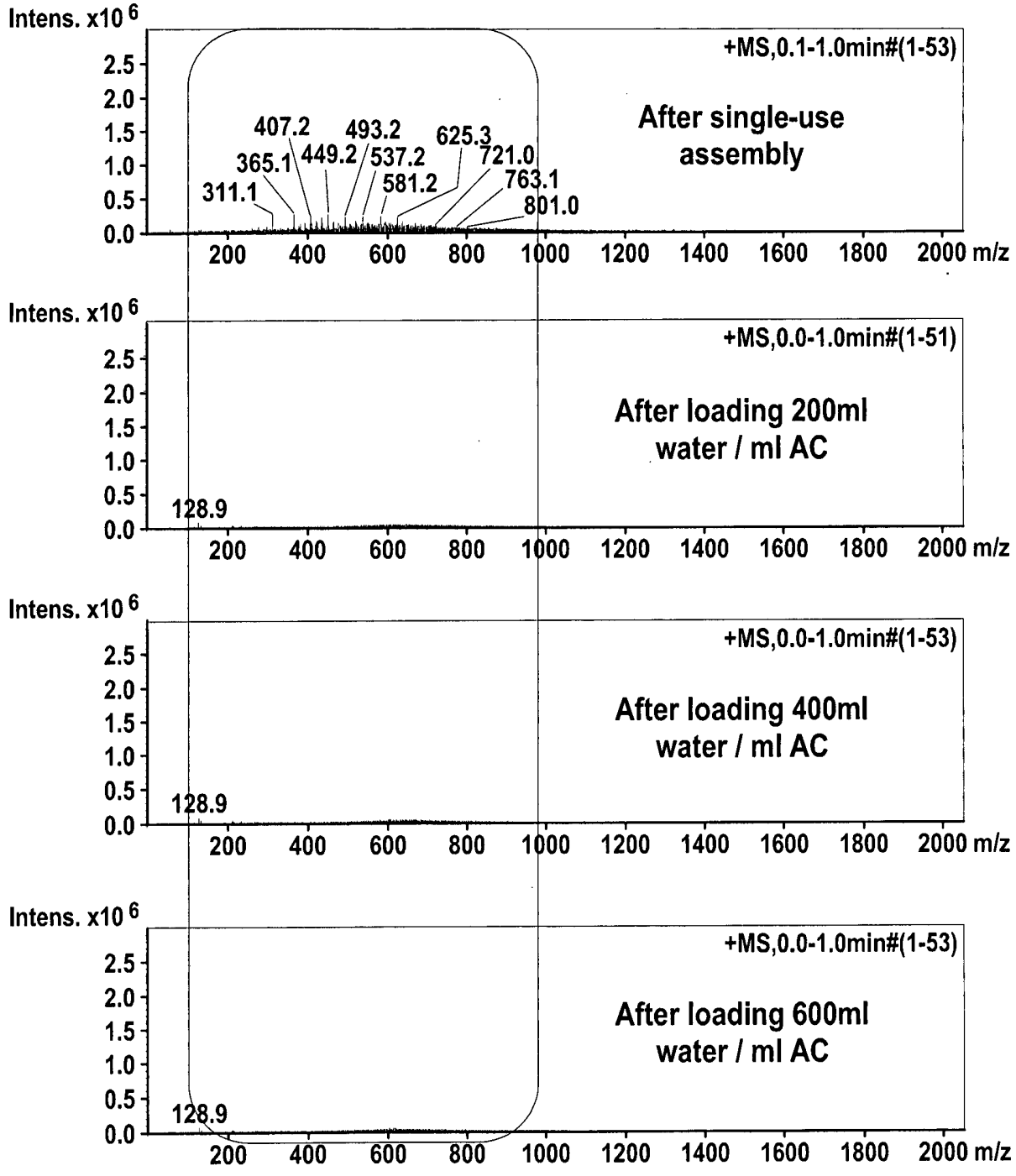
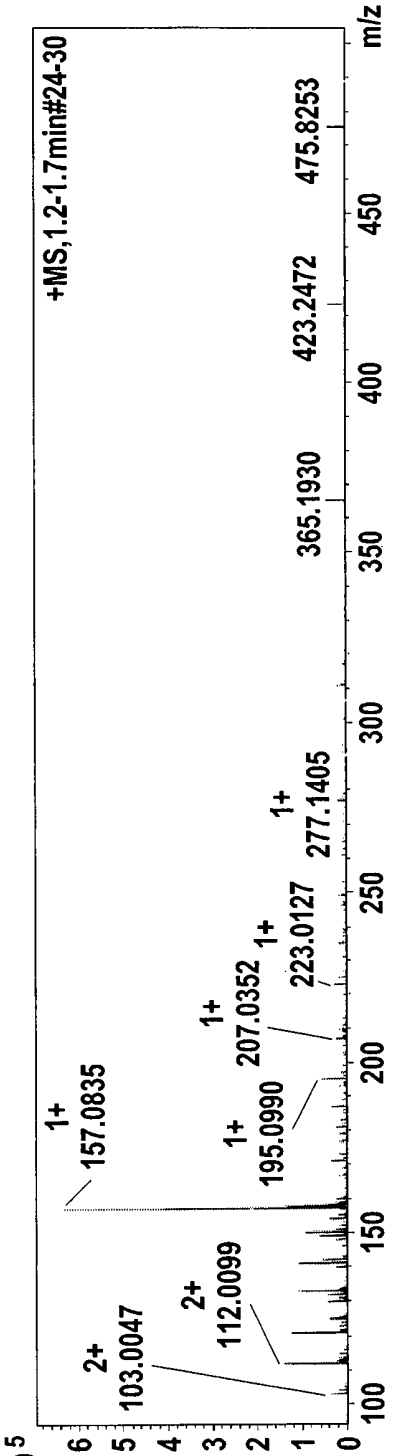
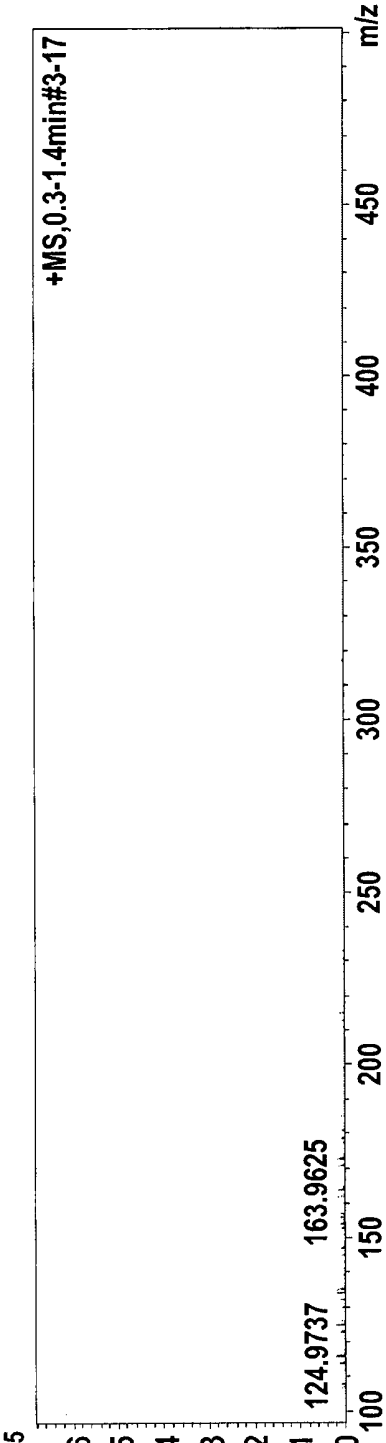

Intens. x10 6
+MS,0.1-1.0min#(1-53)
After single-use assembly
407.2
493.2
625.3
365.1
449.2
537.2
721.0
311.1
581.2
763.1
801.0
Intens. x10 6
+MS,0.0-1.0min#(1-51)
After loading 200ml water / ml AC
128.9
Intens. x10 6
+MS,0.0-1.0min#(1-53)
After loading 400ml water / ml AC
128.9
Intens. x10 6
+MS,0.0-1.0min#(1-53)
After loading 600ml water / ml AC
128.9
m/z

Fig. 10 Part 1

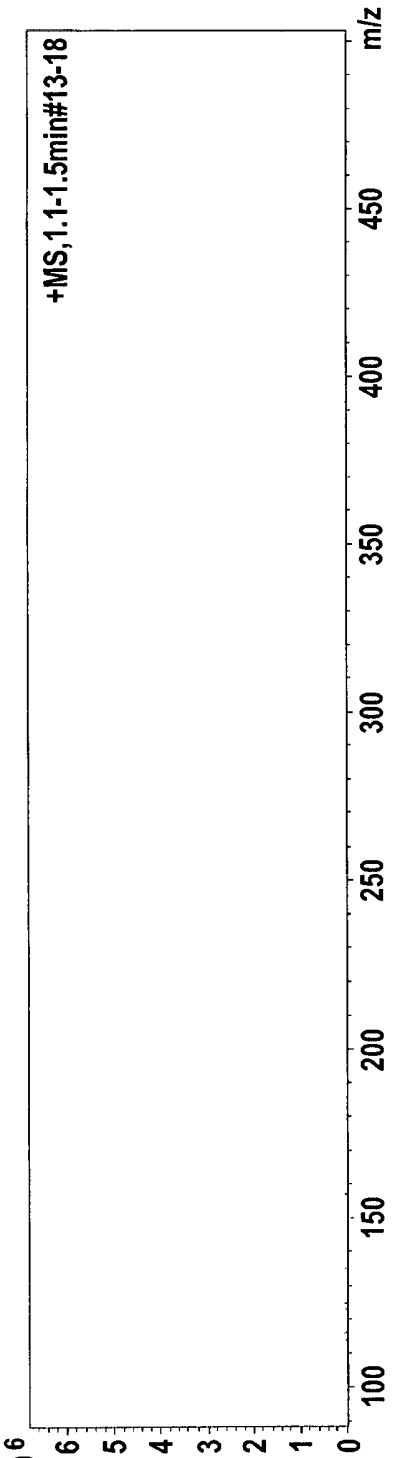



a) MS analysis of sample after single-use assembly

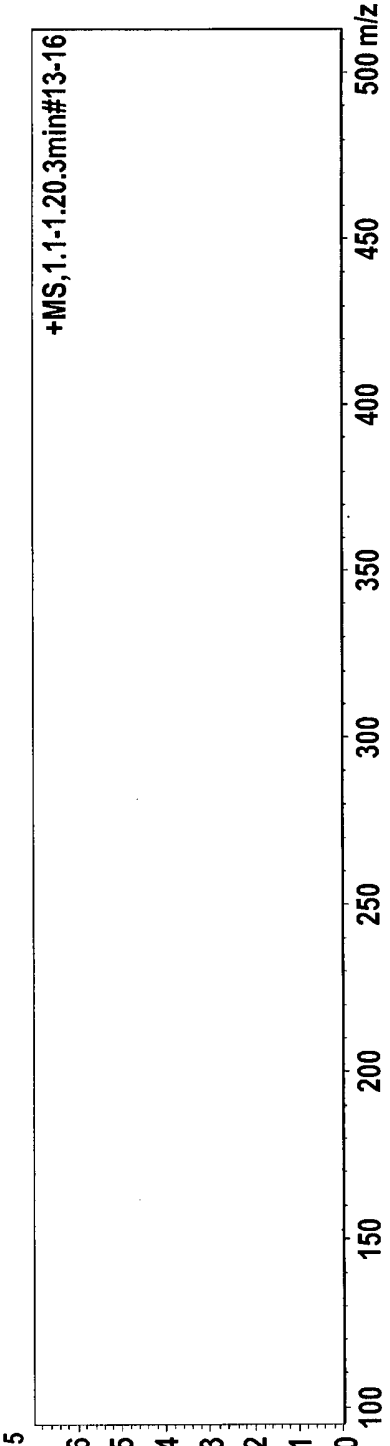



b) MS analysis of a singel-use assembly water sample after charging it at 40 ml to cm" of Millistak® CR40 filter

Fig. 10 Part 2

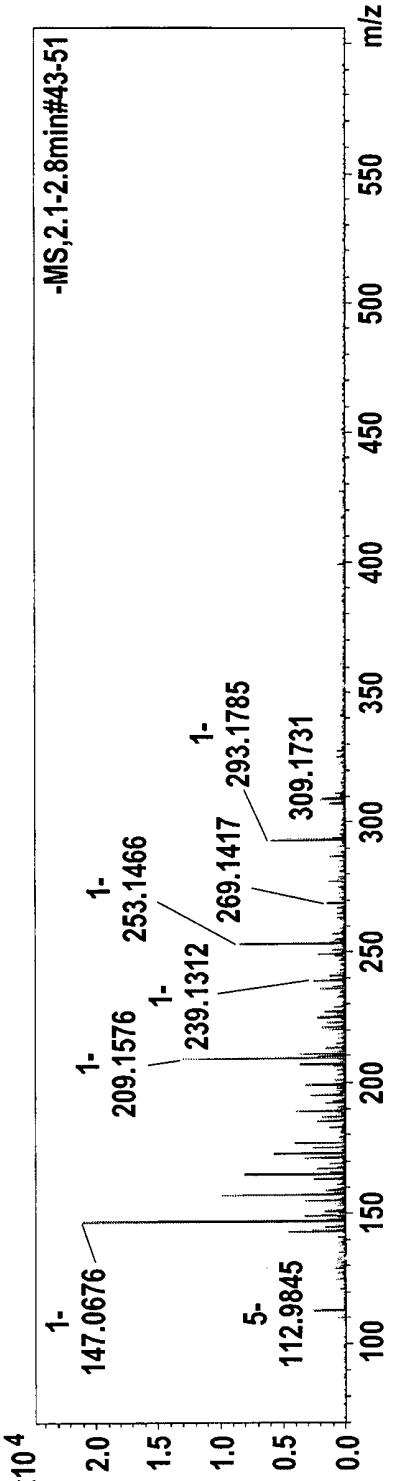



c) MS analysis of a singel-use assembly water sample after charging it at 80 ml to cm" of Millistak® CR40 filter

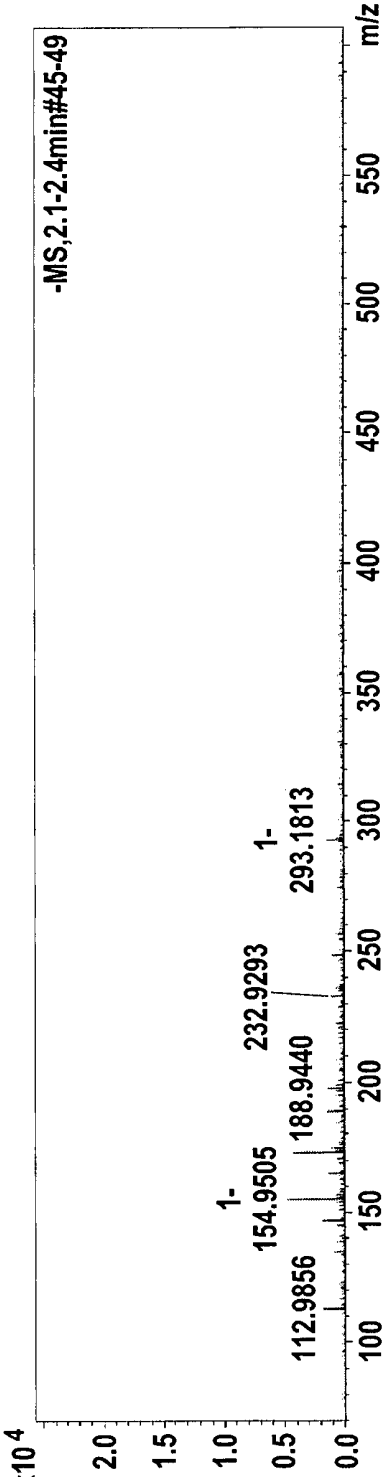



d) Water after MilliQ water purification system

Fig. 11 Part 1

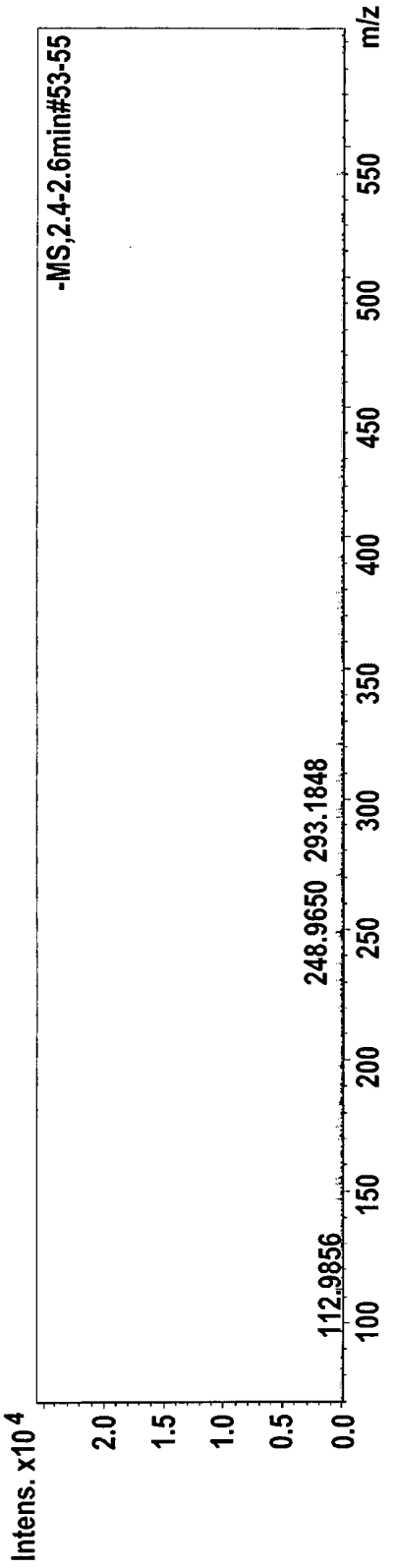



a) MS analysis of sample after single-use assembly



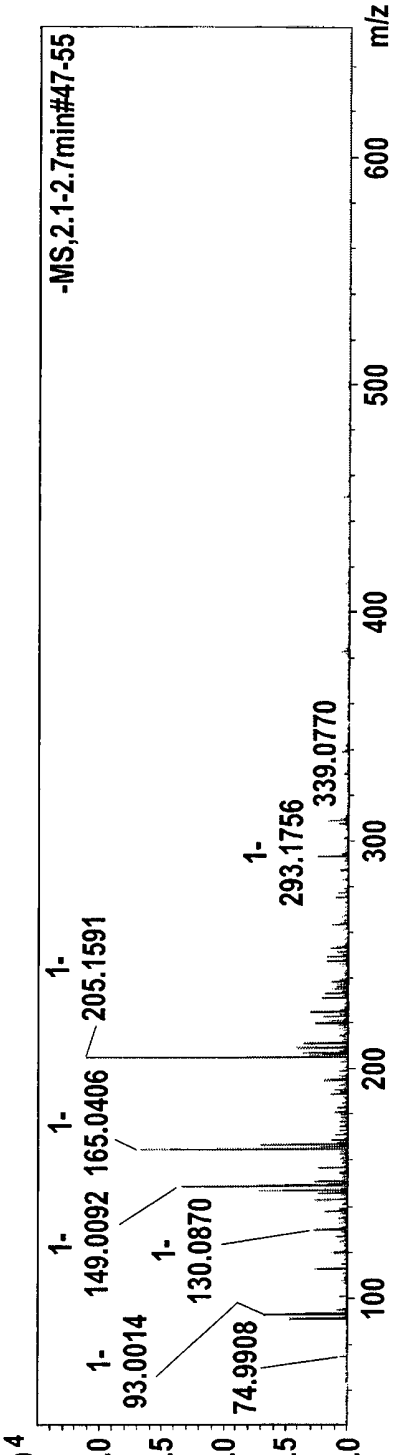

b) MS analysis of a singel-use assembly water sample after charging it at 40 ml to cm" of Millistak® CR40 filter

Fig. 11 Part 2

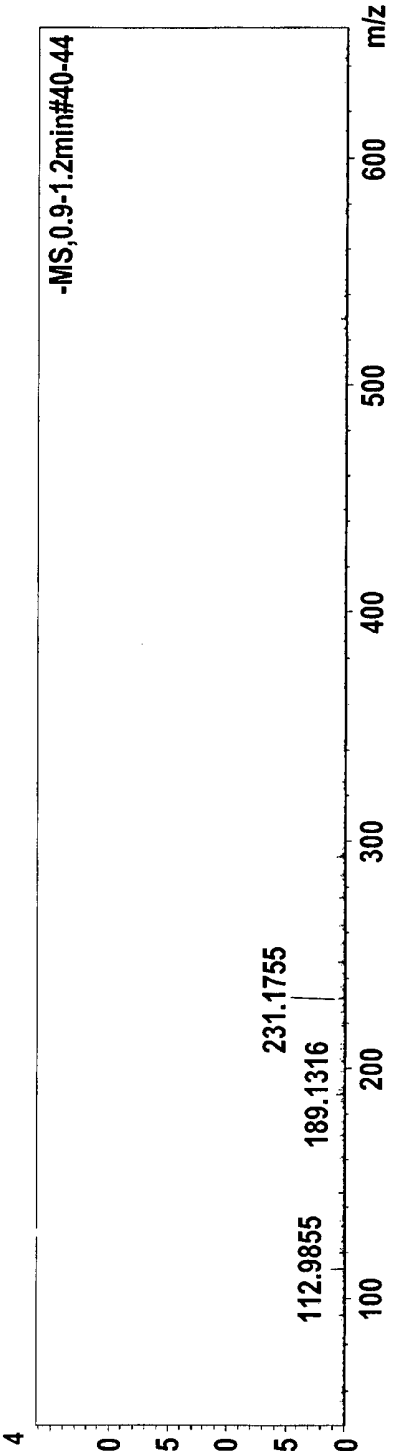



c) Water after MilliQ water purification system

Fig. 12 Part 1

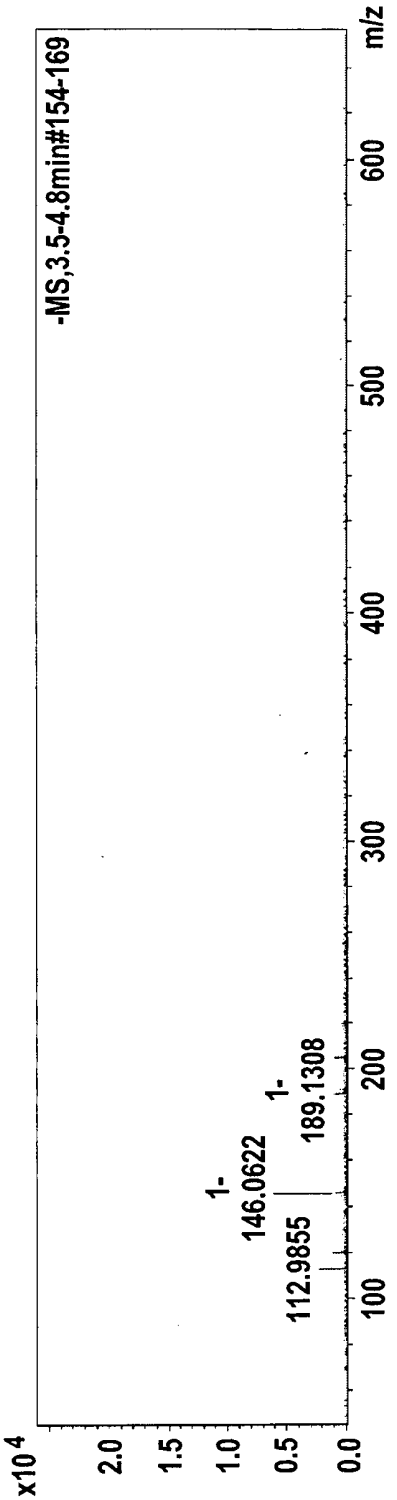



a) MS analysis of sample after single-use assembly



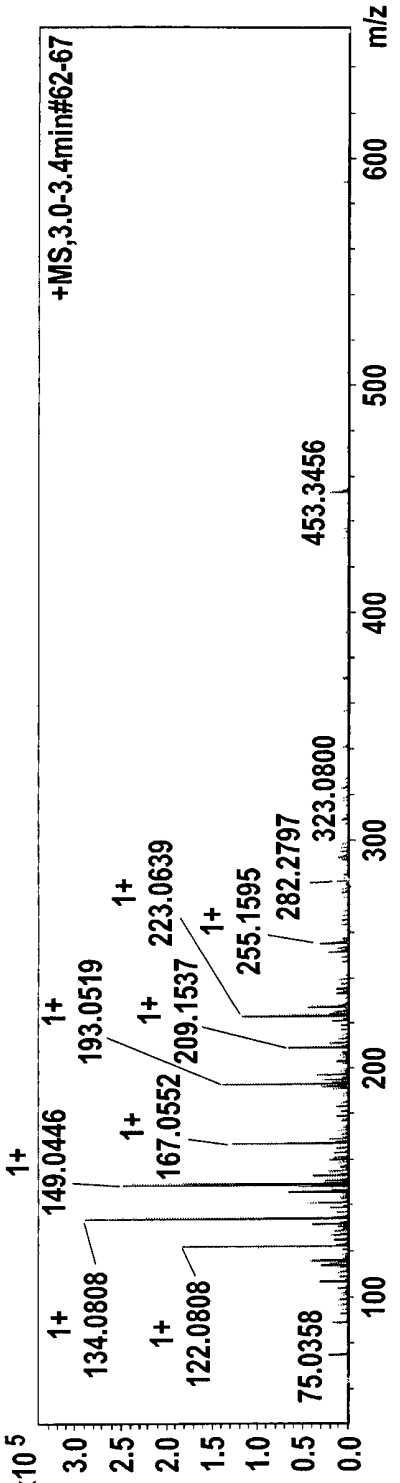

b) MS analysis of a singel-use assembly water sample after charging it at 40 ml to cm" of Millistak® CR40 filter

Fig. 12 Part 2

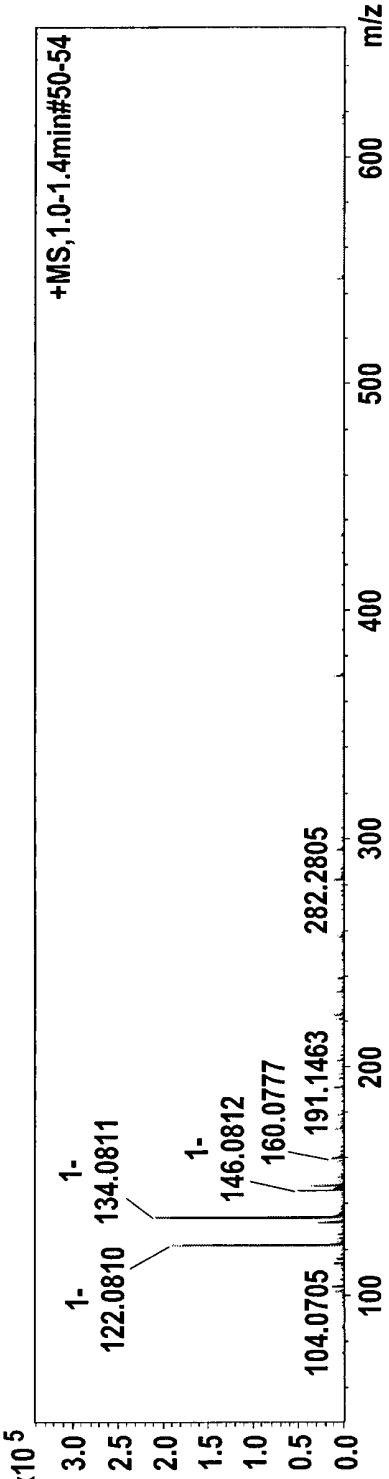



c) Water after MilliQ water purification system

Fig. 13 Part 1

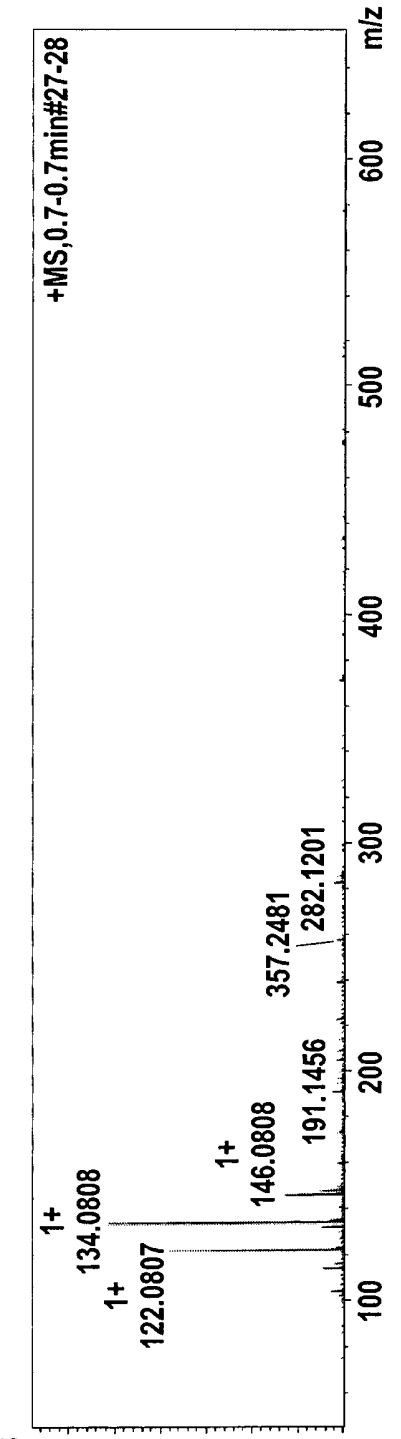



a) MS analysis of sample after single-use assembly




b) MS analysis of a singel-use assembly water sample after charging it at 40 ml to cm" of Millistak® CR40 filter

Fig. 13 Part 2




c) Water after MilliQ water purification system