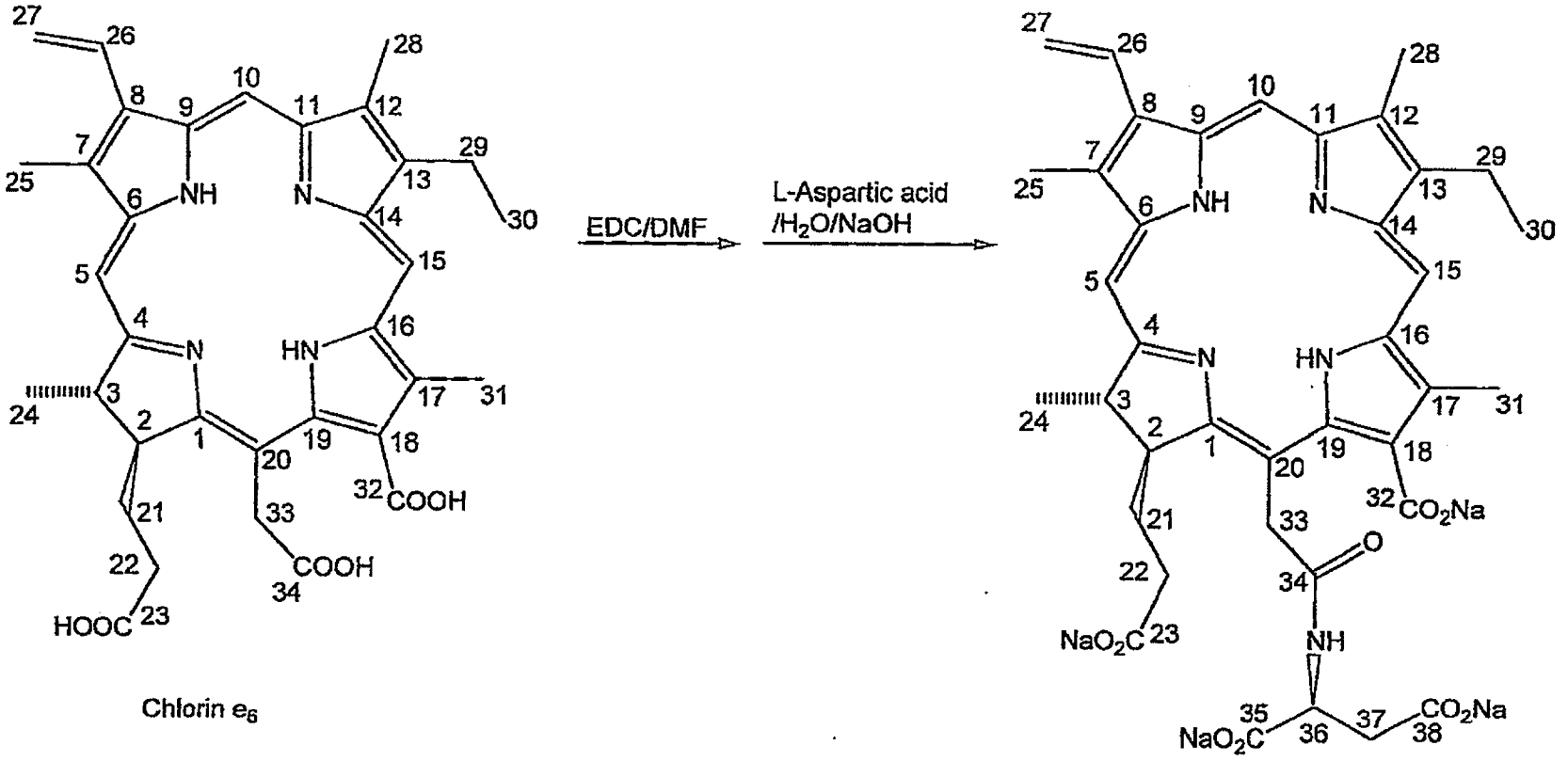

EDC/DMF
L-Aspartic acid
/H2O/NaOH
Chlorin e6
Talaporphin Sodium, LS11
1. Activation
2. Coupling

Fig. 1

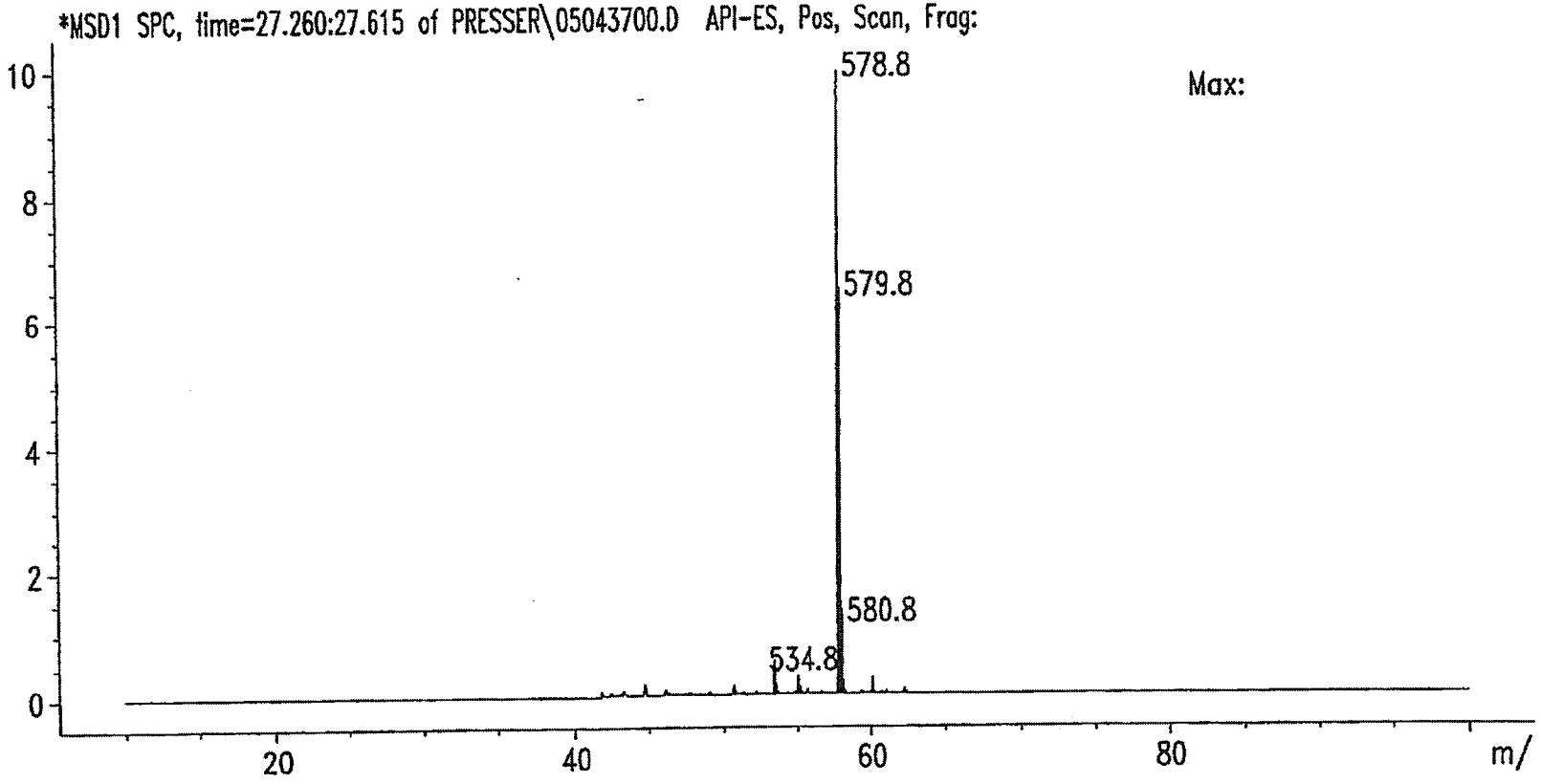

*MSD1 SPC, time=27.260:27.615 of PRESSER\05043700.D API-ES, Pos, Scan, Frag:
Max:
578.8
579.8
580.8
534.8
10
8
6
4
2
0
20
40
60
80
m/

FIG. 2A

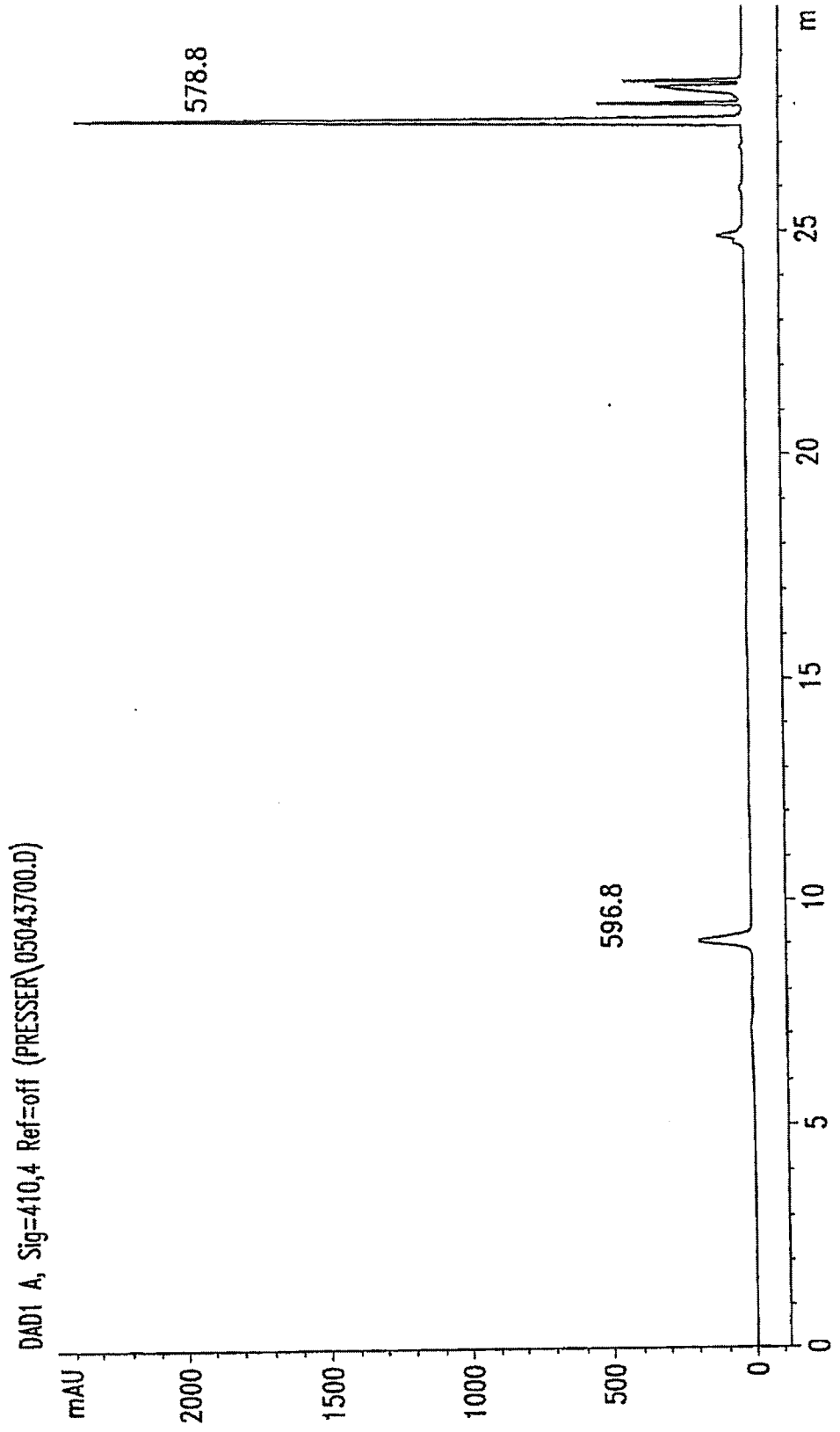

DAD1 A, Sig=410,4 Ref=off (PRESSER\0504300.D)
mAU
2000
1500
1000
500
0
578.8
596.8
0
5
10
15
20
25
m

FIG. 2B

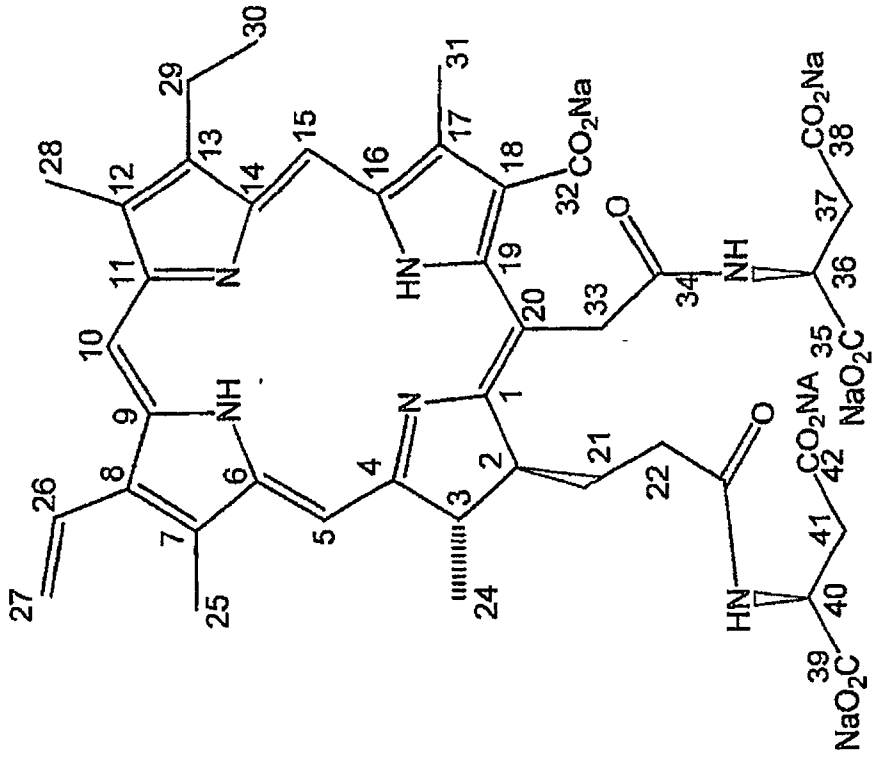

30
29
31
28
13
15
17
12
14
16
18
CO_2Na
32
O
11
N
HN
19
CO_2Na
38
10
20
33
34
NH
37
36
9
NH
N
1
35
NaO_2C
26
8
6
4
2
21
22
O
CO_2NA
42
7
5
3
41
27
25
24
HN
40
39
NaO_2C

Fig. 3

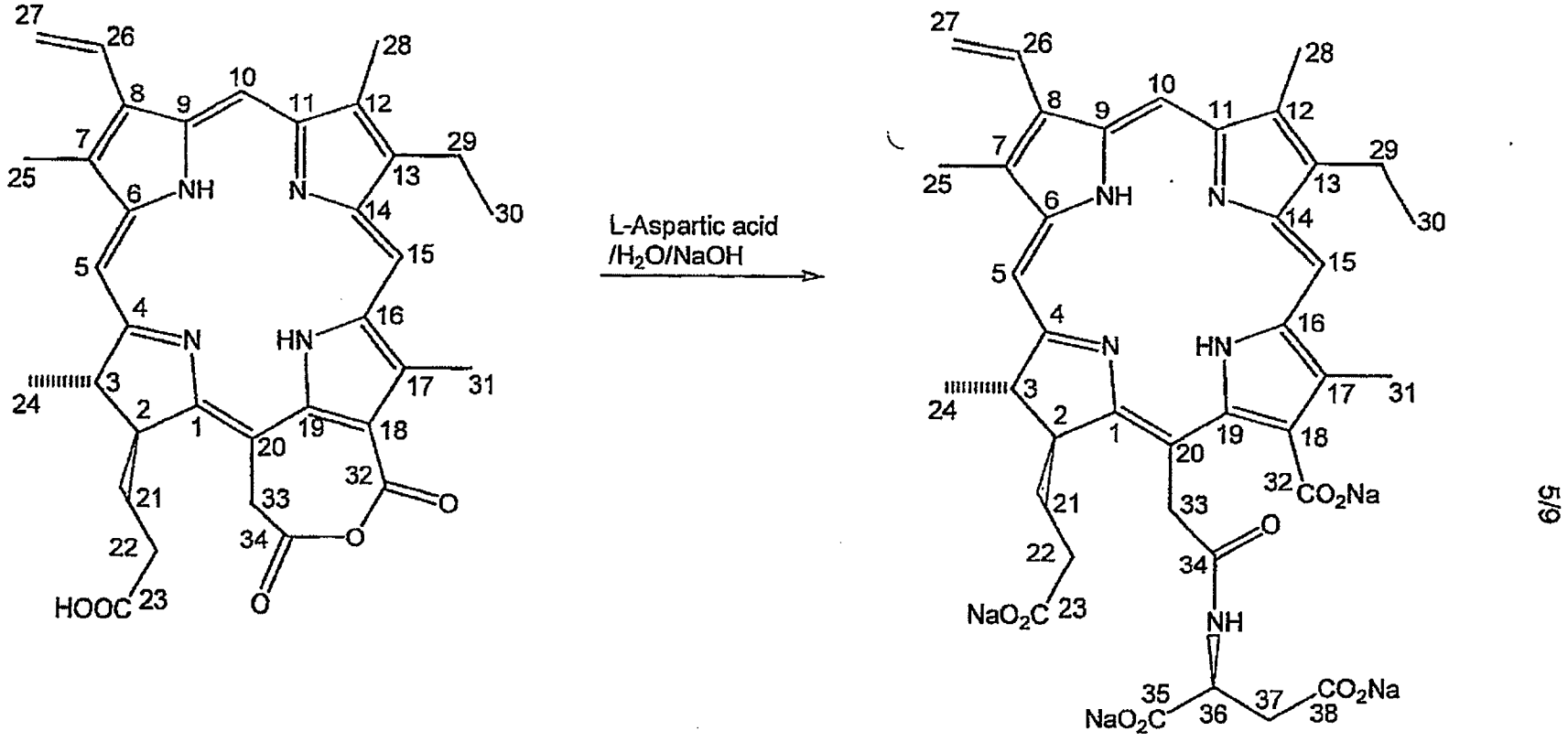


Fig. 4

*MSD1 SPC, time=0.069:0.512 of PRESSER\62150001.D API-ES, Pos, Scan, Frag: Var

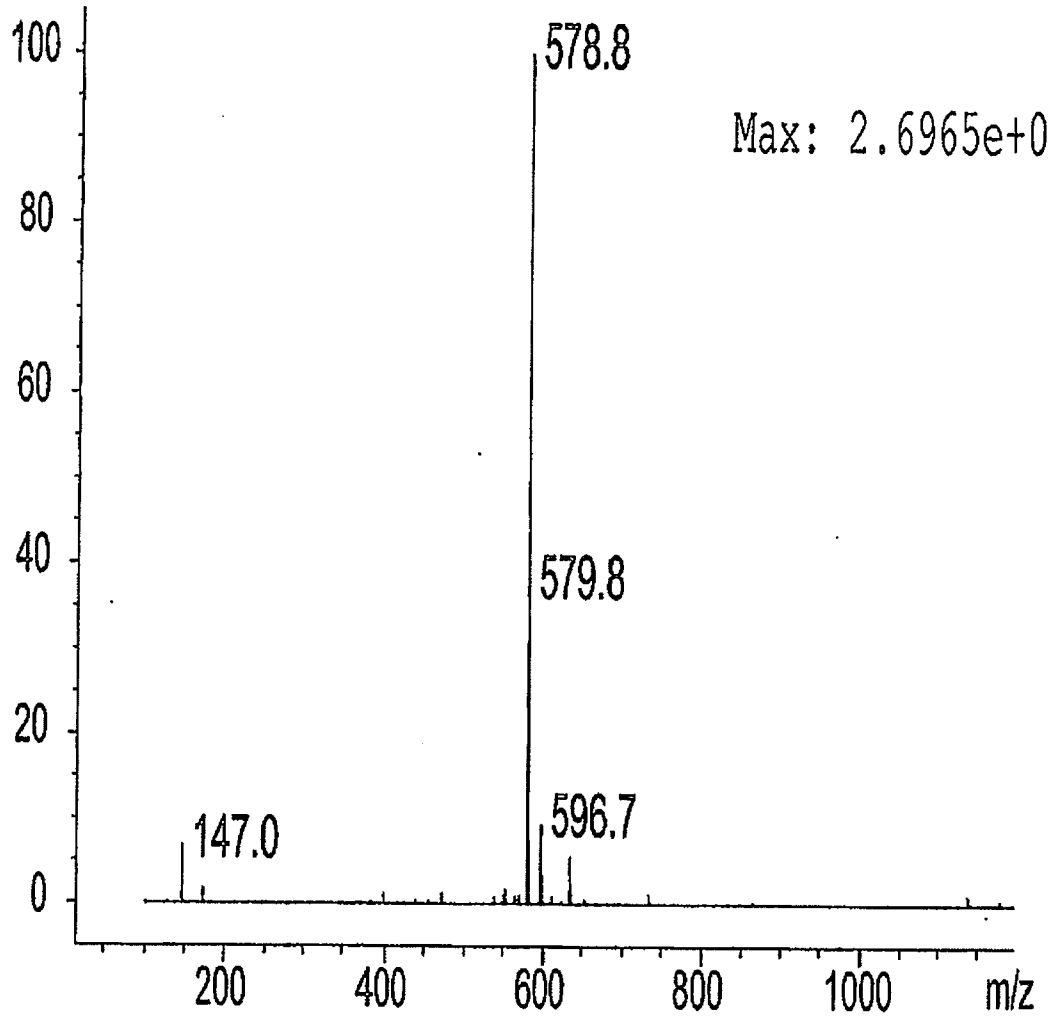


FIG. 5

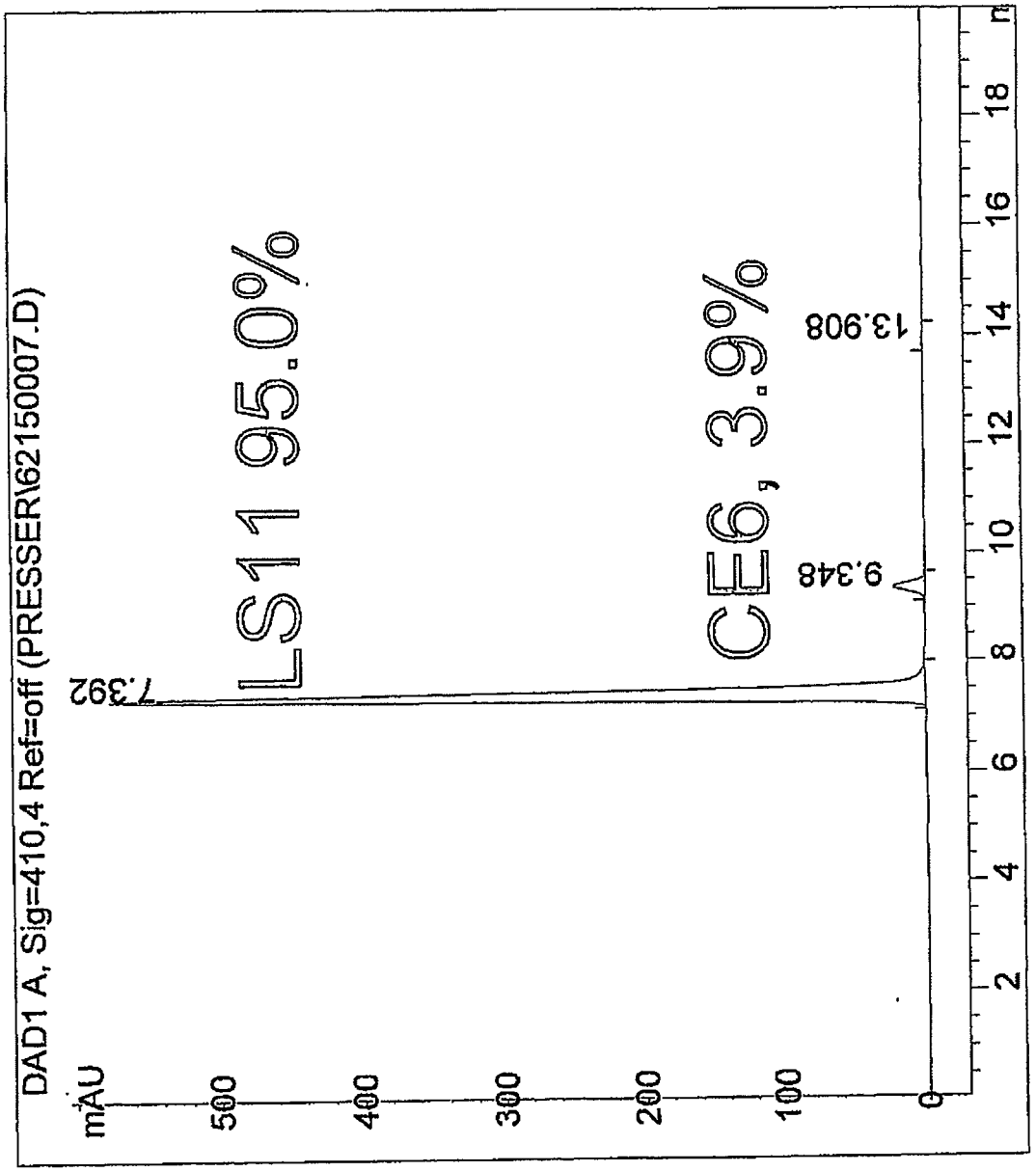

DAD1 A, Sig=410,4 Ref=off (PRESSER\62150007.D)
mAU
500
400
300
200
100
0
7.392
9.348
13.908
LS11 95.0%
CE6, 3.9%
2
4
6
8
10
12
14
16
18
m

Fig. 6

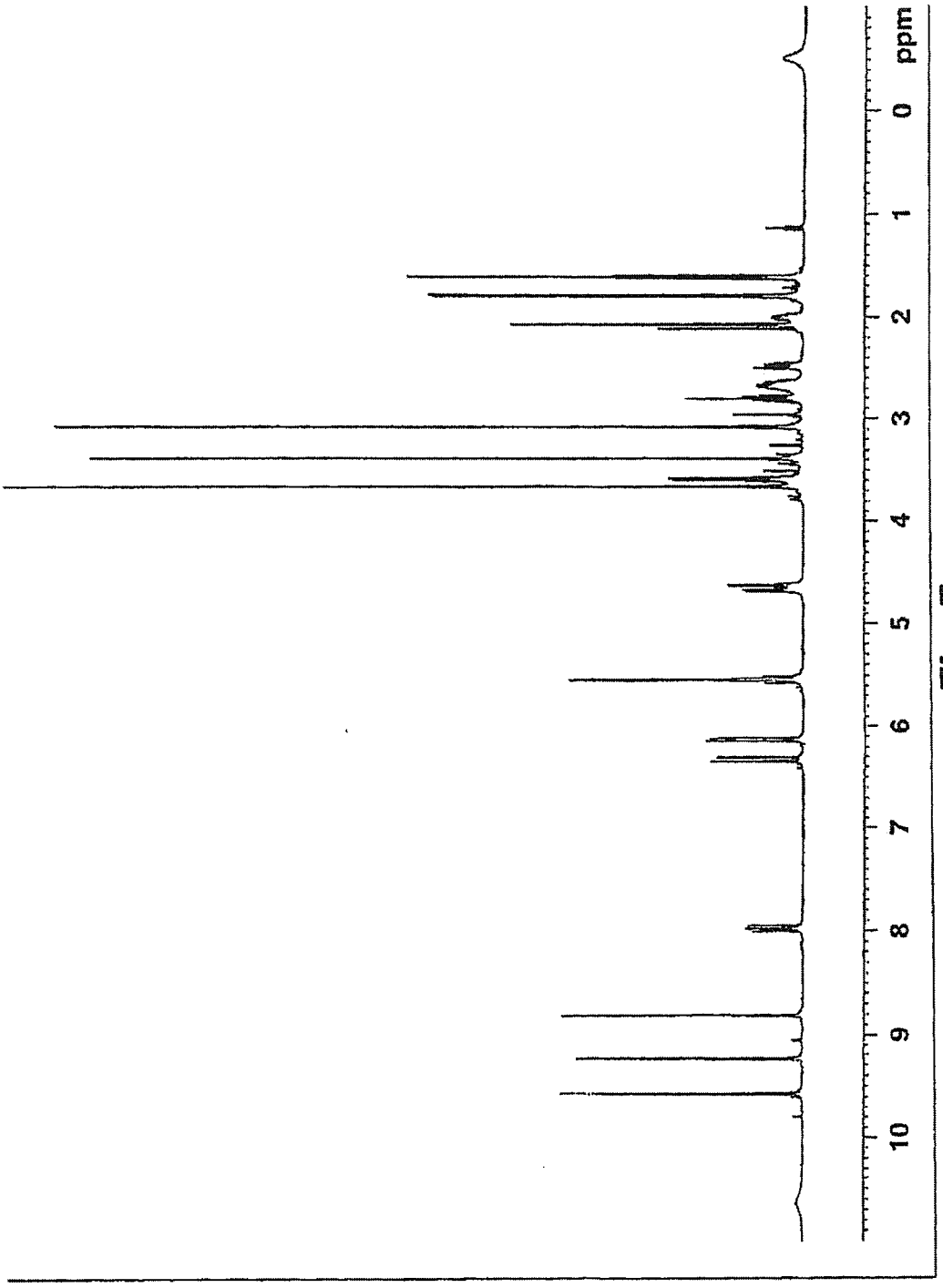


Fig. 7

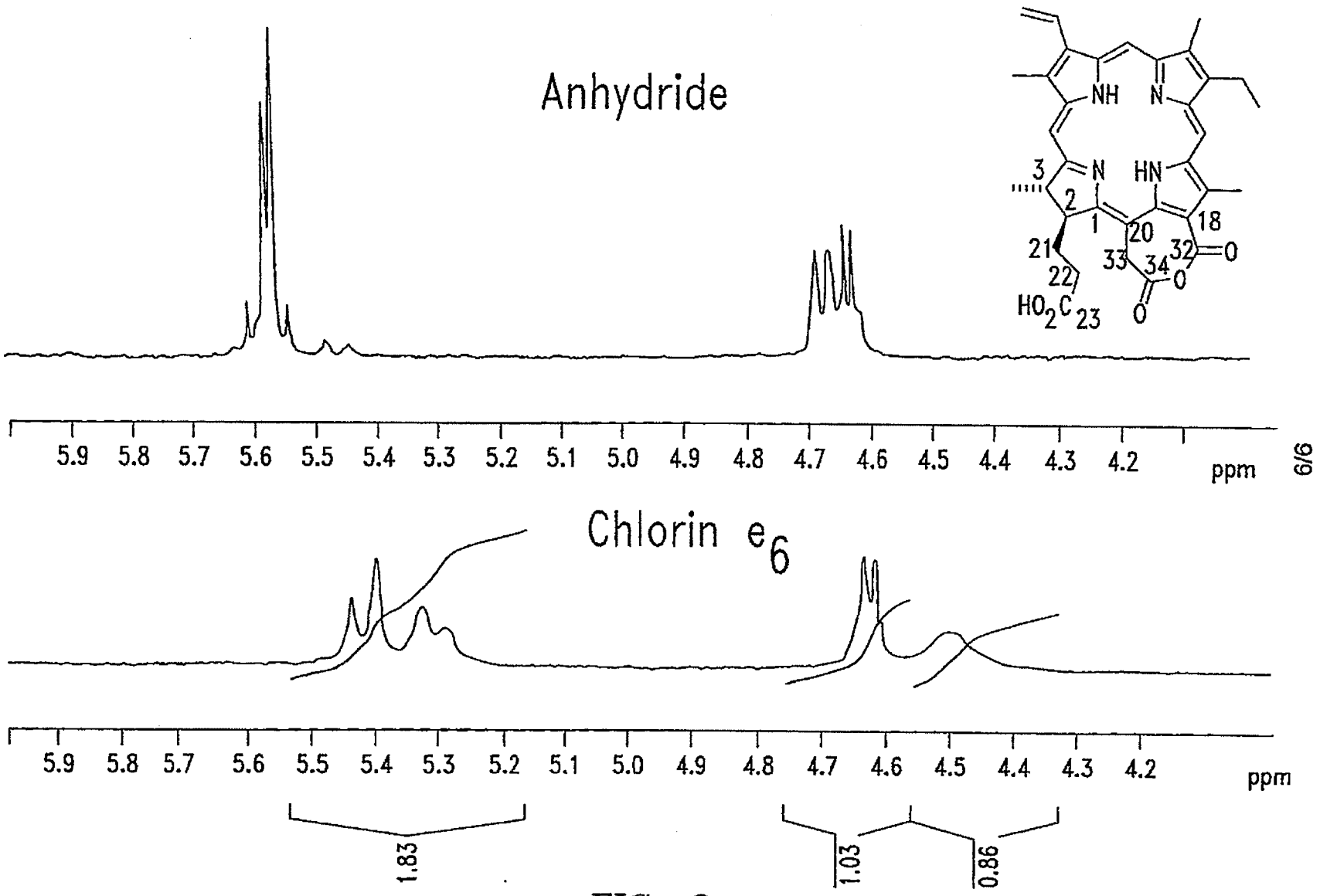

Anhydride
NH
N
3
N
HN
2
1
20
18
21
33
34
32
O
22
O
HO_2C 23
O
5.9 5.8 5.7 5.6 5.5 5.4 5.3 5.2 5.1 5.0 4.9 4.8 4.7 4.6 4.5 4.4 4.3 4.2
ppm
6/6
Chlorin e_6
5.9 5.8 5.7 5.6 5.5 5.4 5.3 5.2 5.1 5.0 4.9 4.8 4.7 4.6 4.5 4.4 4.3 4.2
ppm
1.83
1.03
0.86

FIG. 8