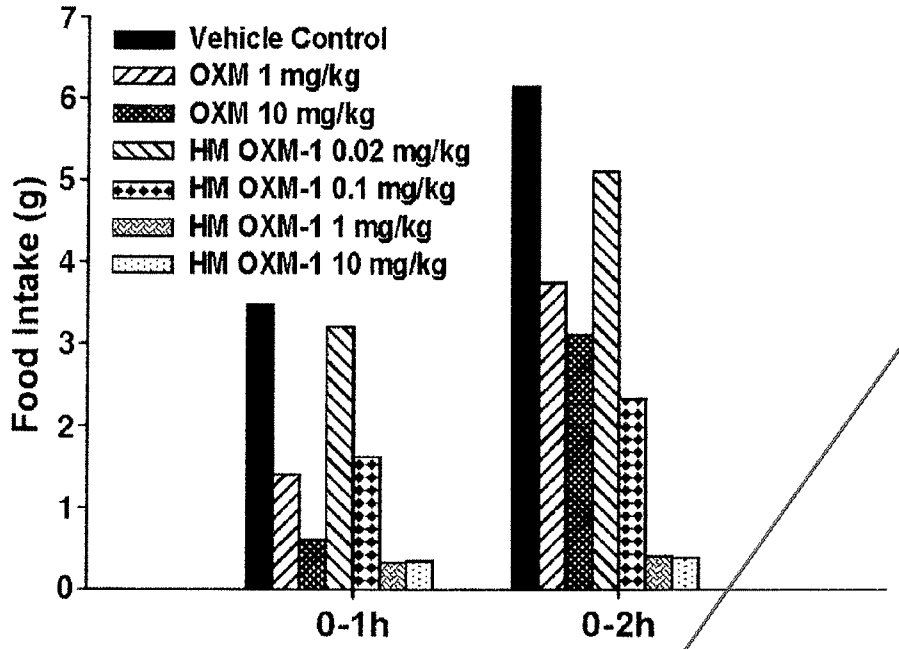
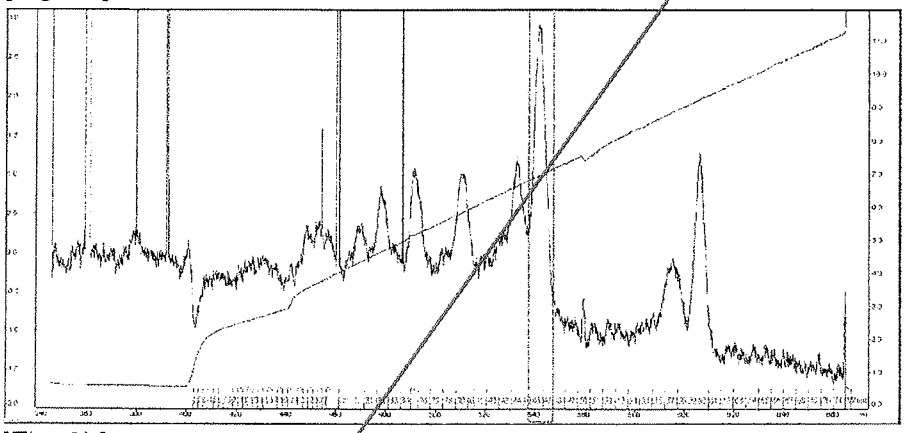
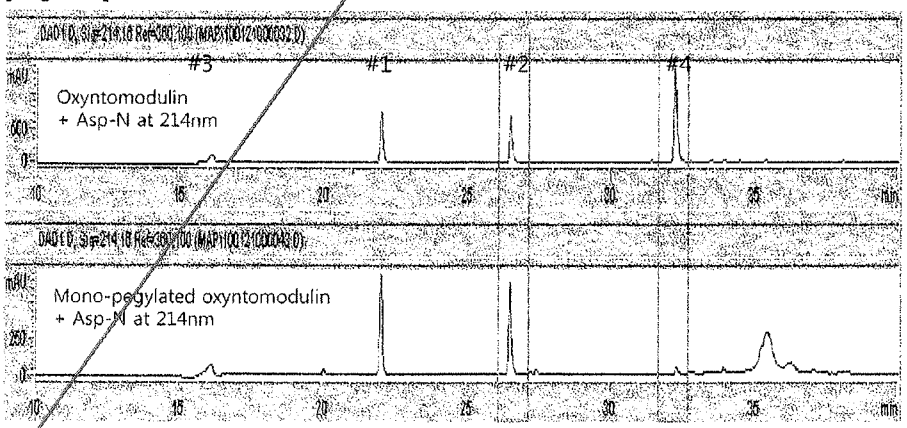
[Fig. 1]



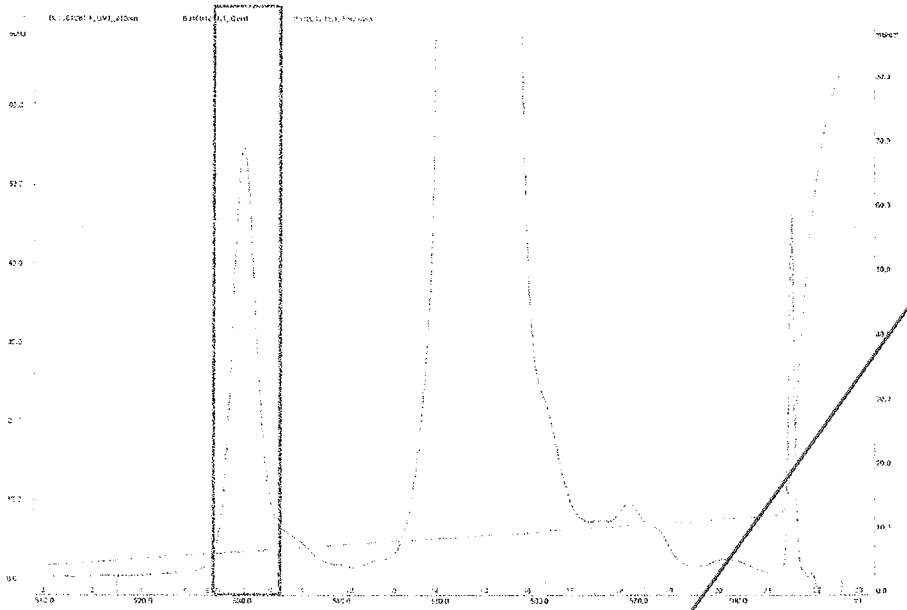
[Fig. 2a]



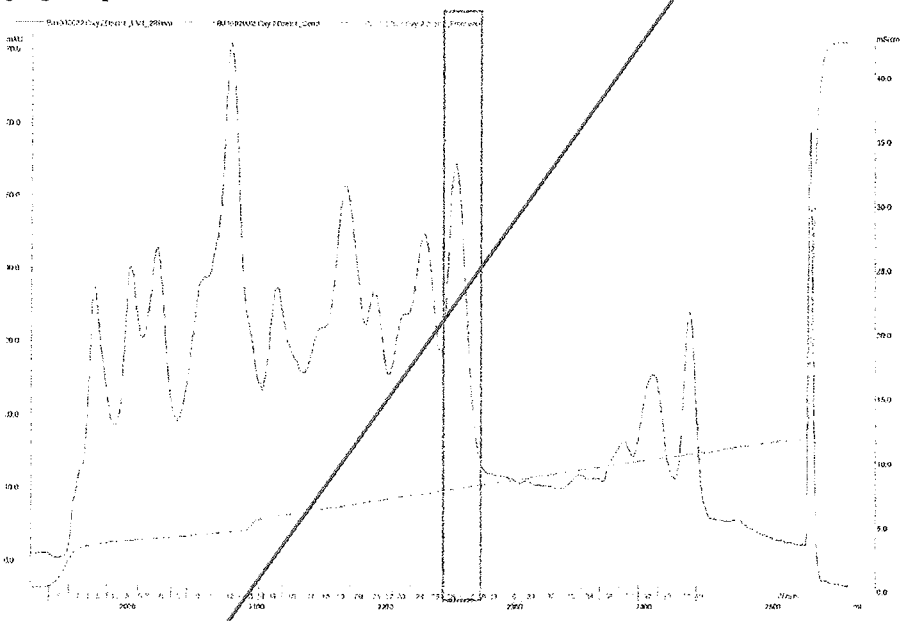
[Fig. 2b]



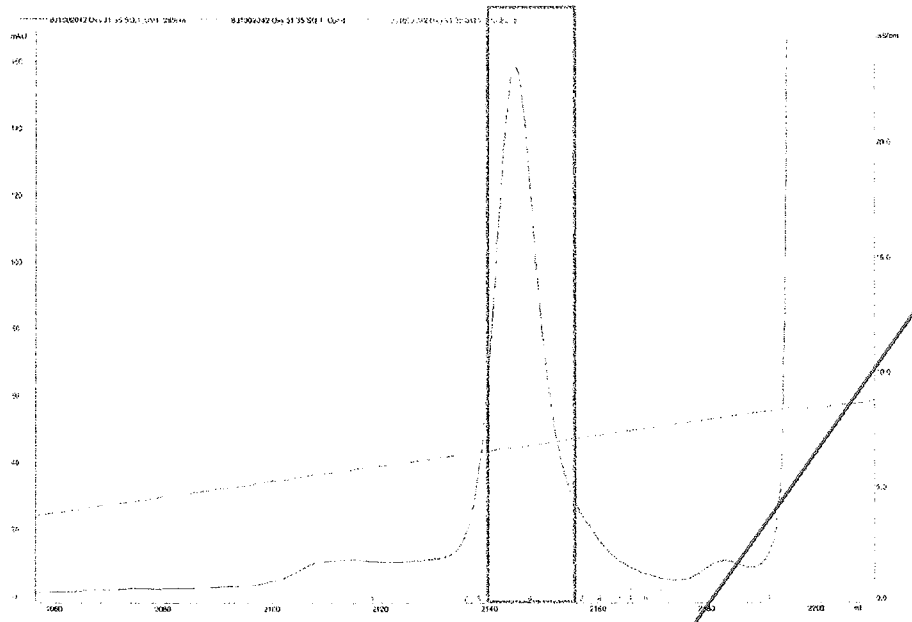
[Fig. 2c]



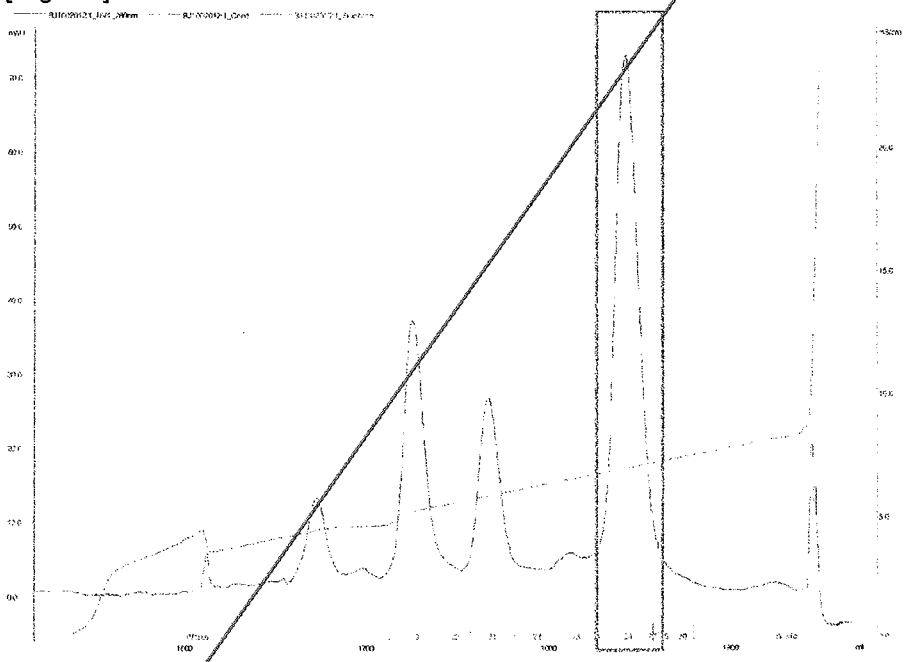
[Fig. 3a]



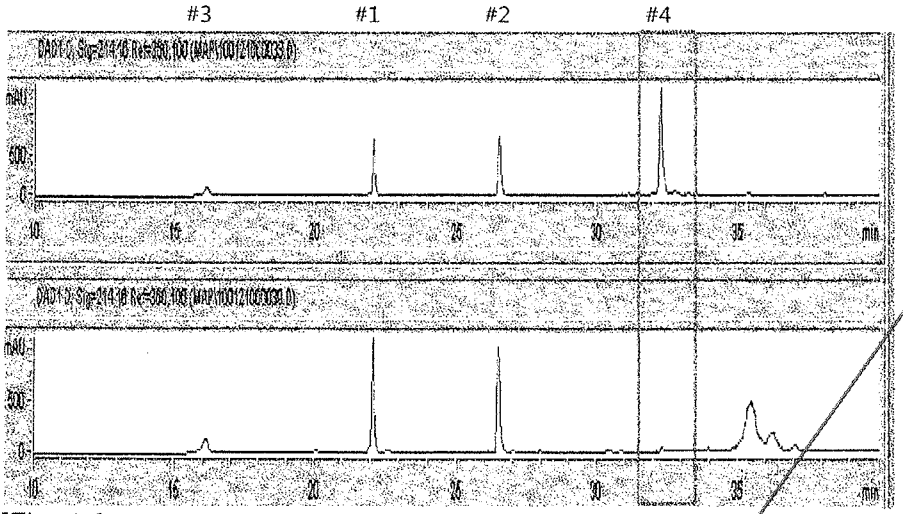
[Fig. 3b]



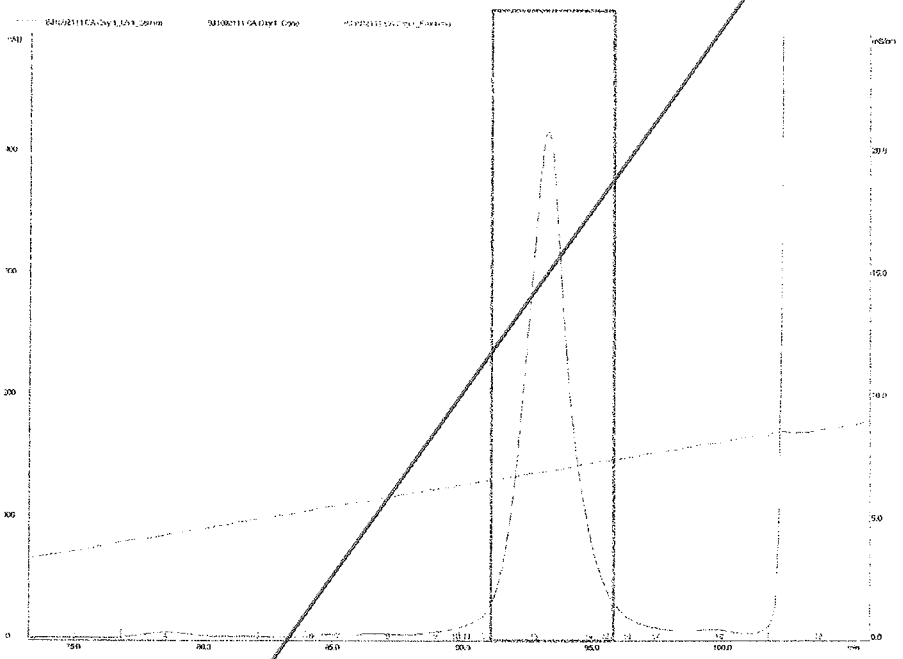
[Fig. 4a]



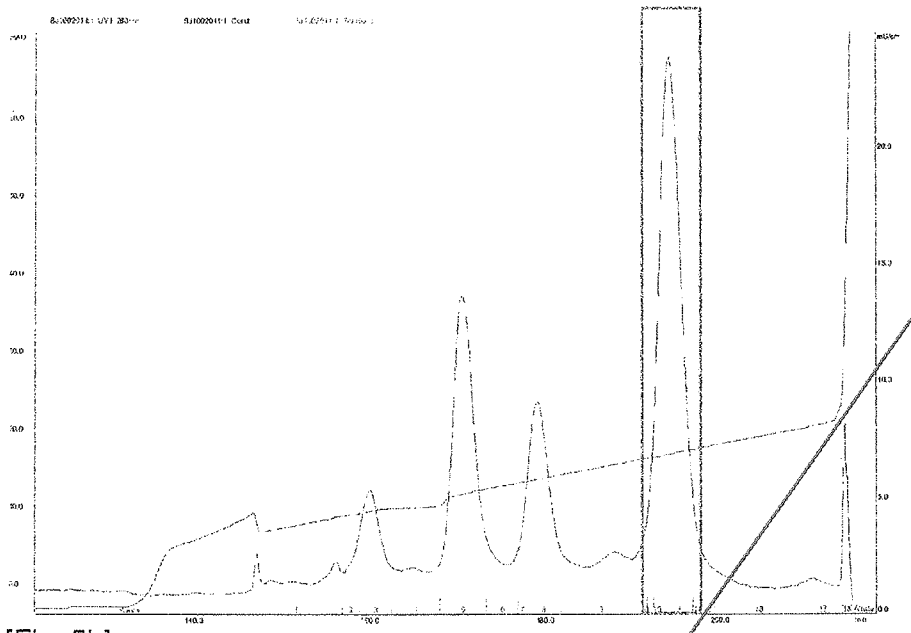
[Fig. 4b]



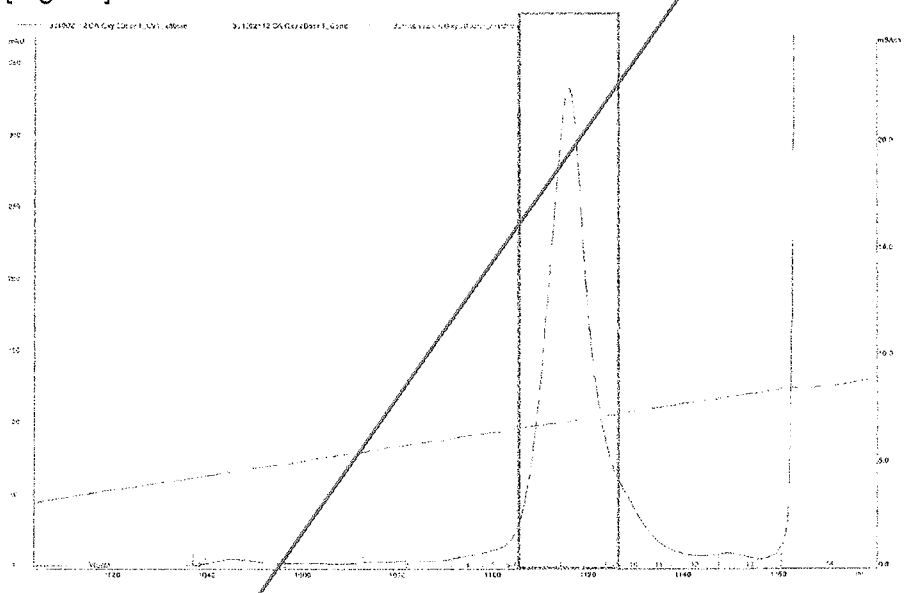
[Fig. 4c]



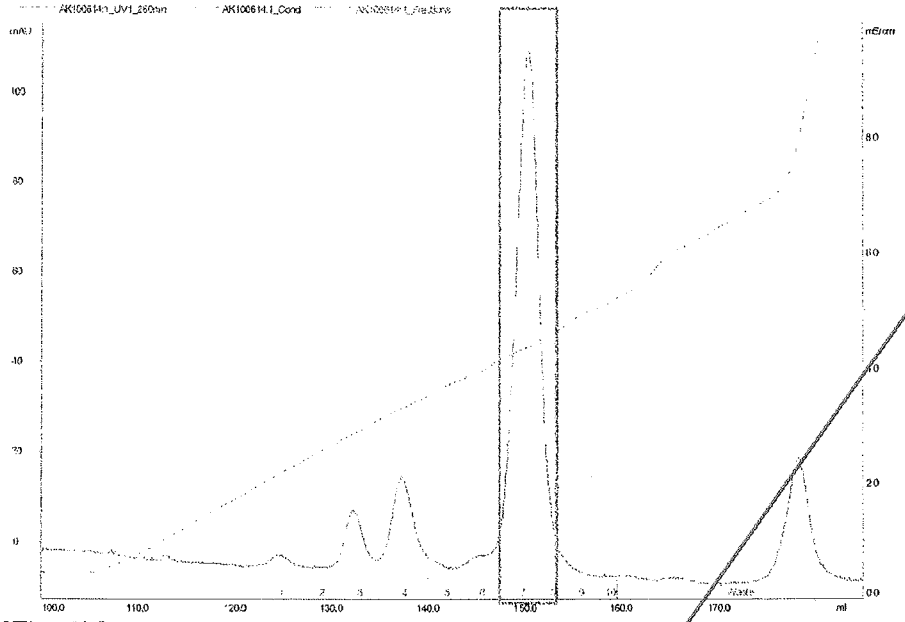
[Fig. 5a]



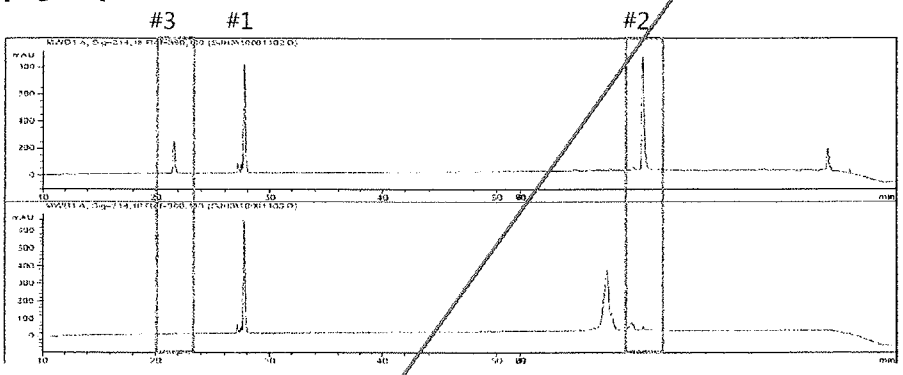
[Fig. 5b]



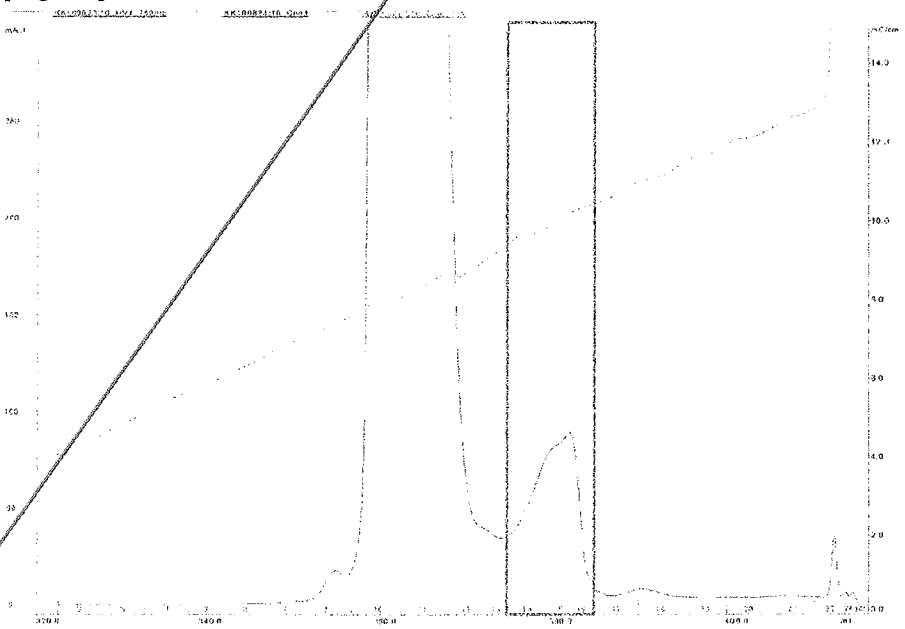
[Fig. 6a]



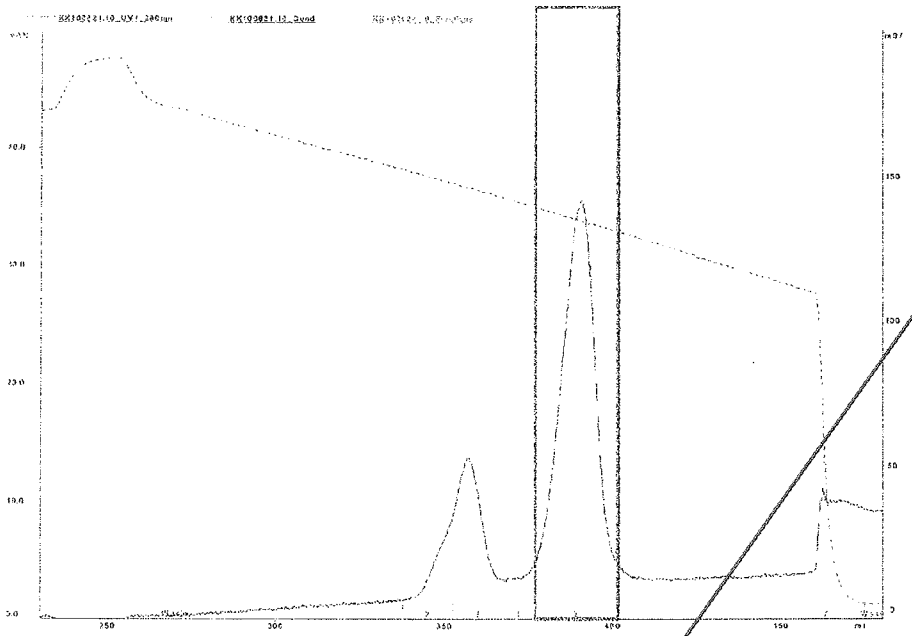
[Fig. 6b]



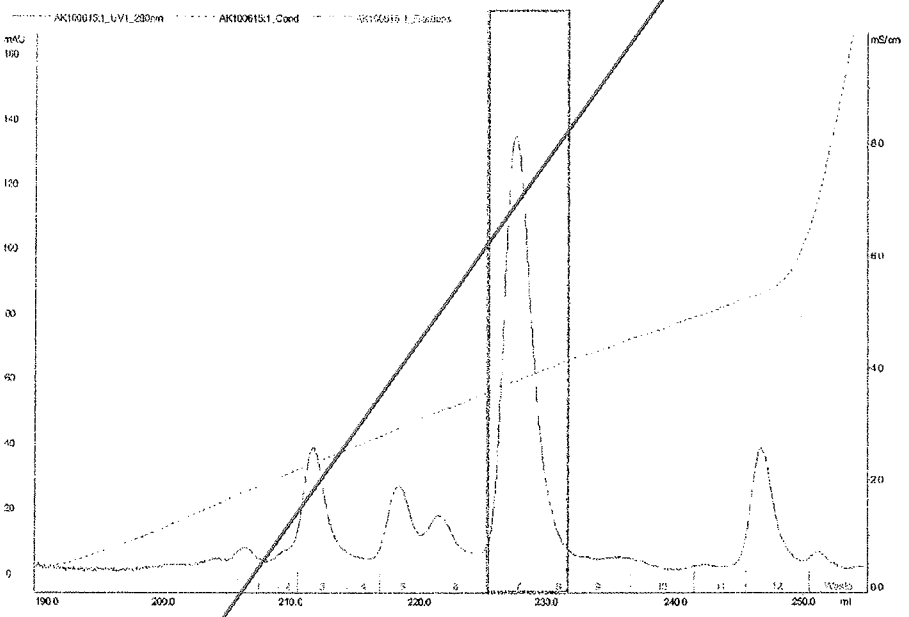
[Fig. 6c]



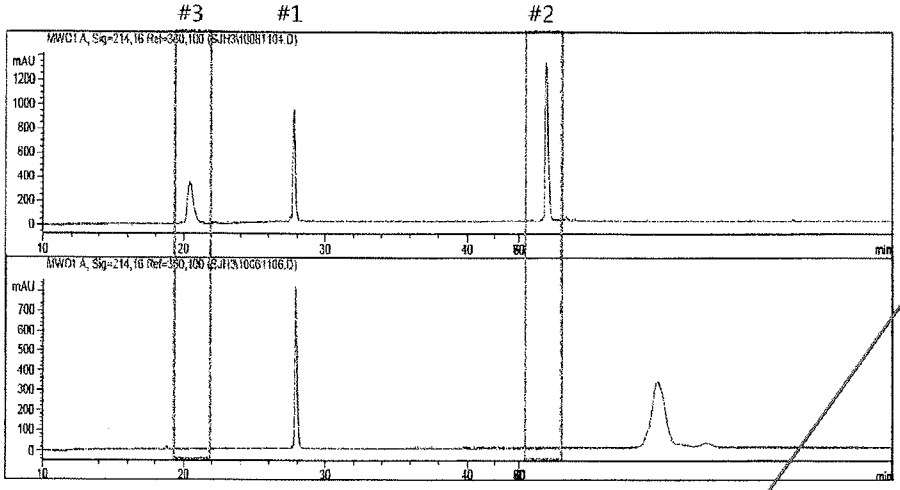
[Fig. 6d]



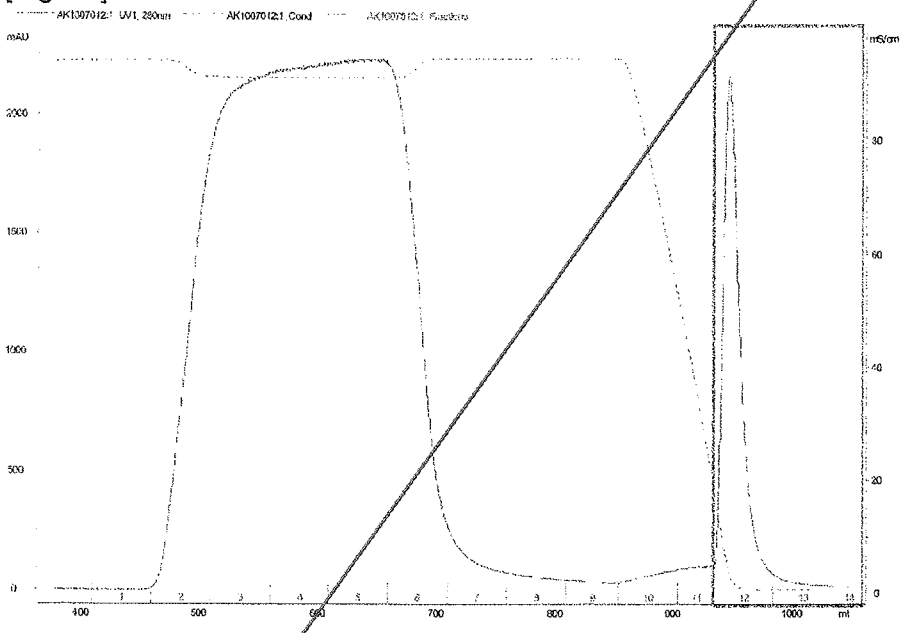
[Fig. 7a]



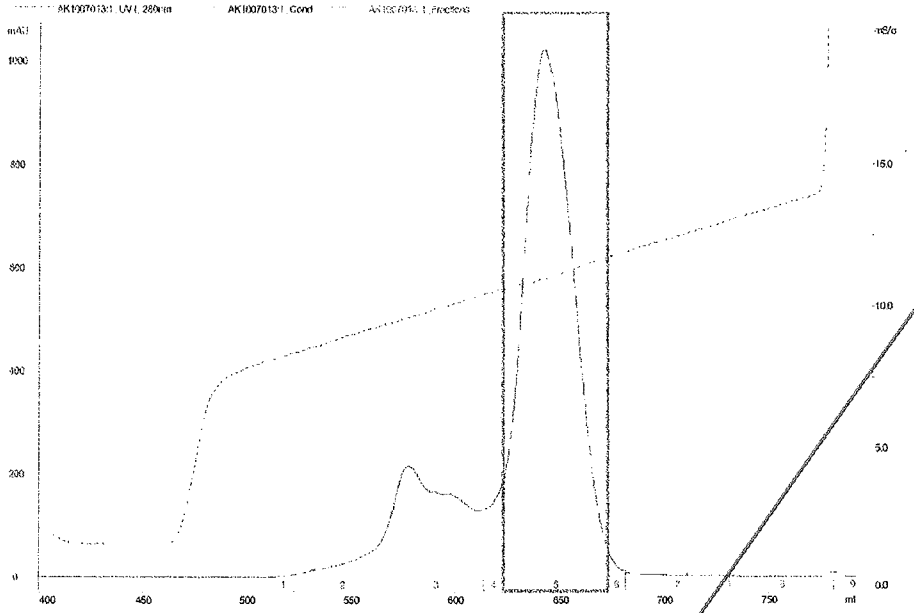
[Fig. 7b]



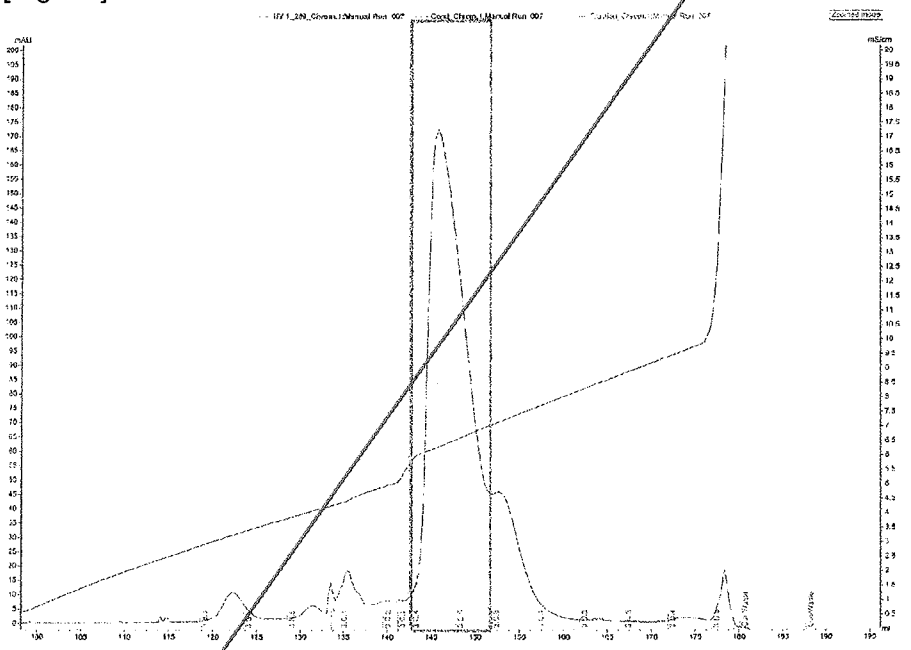
[Fig. 7c]



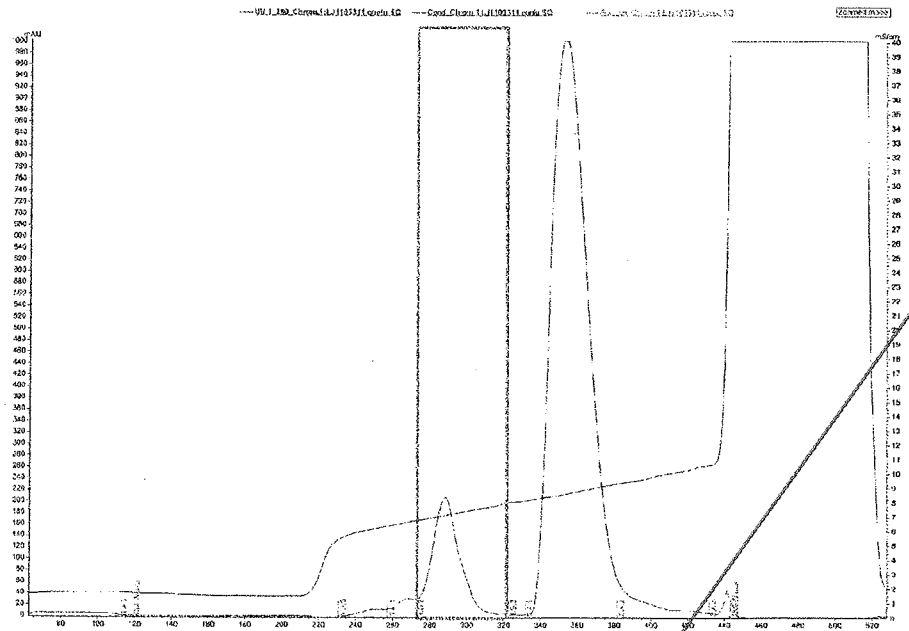
[Fig. 7d]


mAU
1000
800
600
400
200
0
400
450
500
550
600
650
700
750
ml
150
100
5.0
0.0

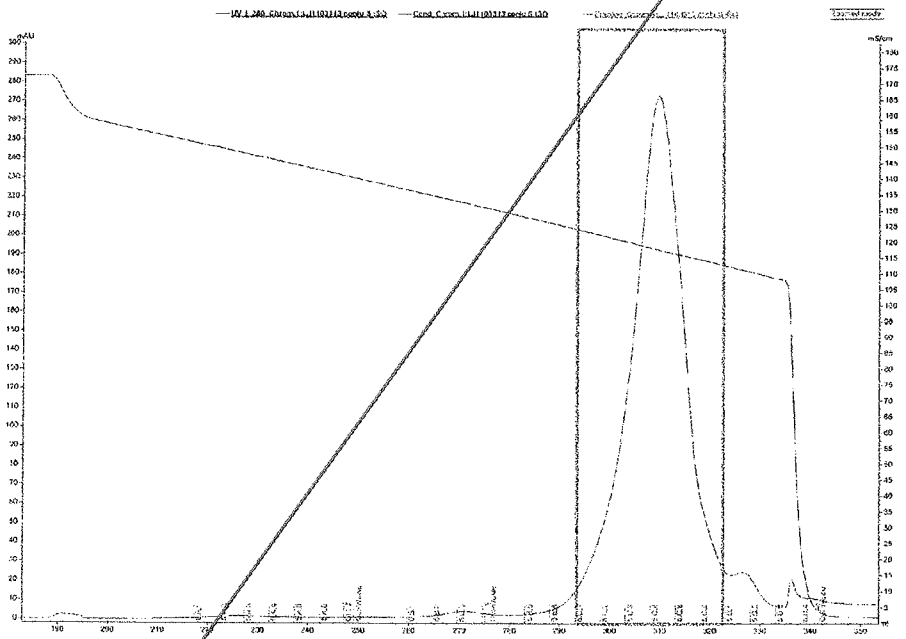
[Fig. 8a]


mAU
mS/cm
ml

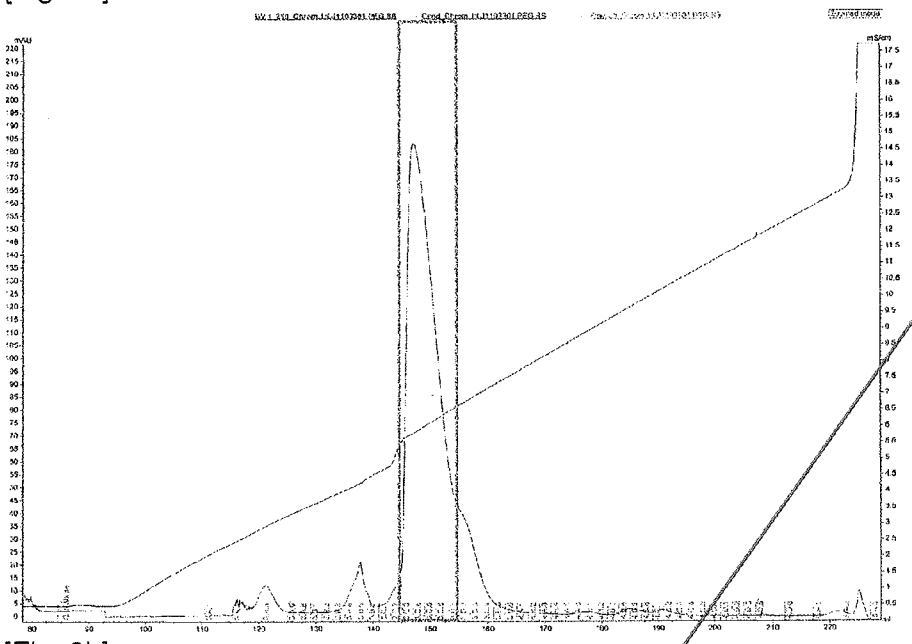
[Fig. 8b]



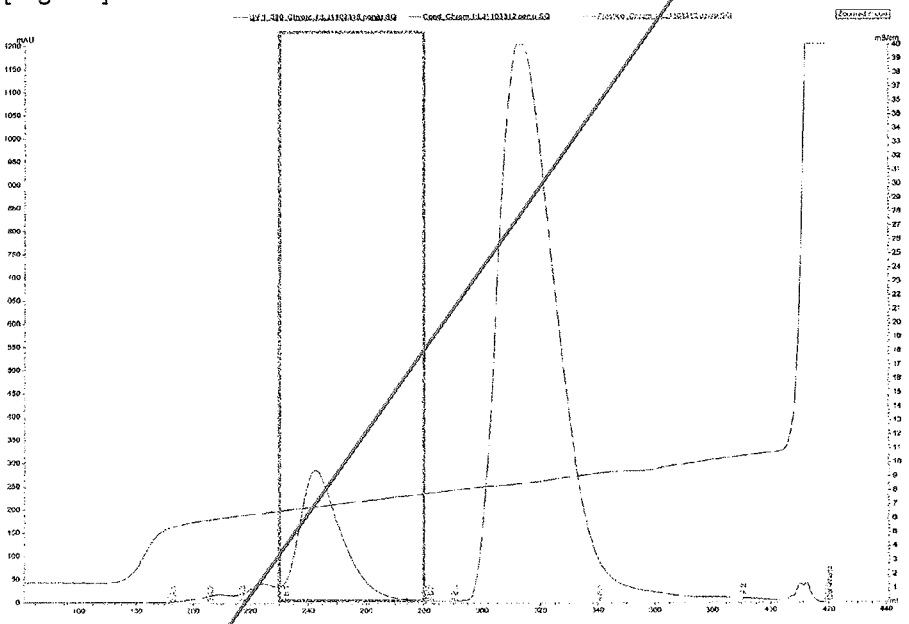
[Fig. 8c]



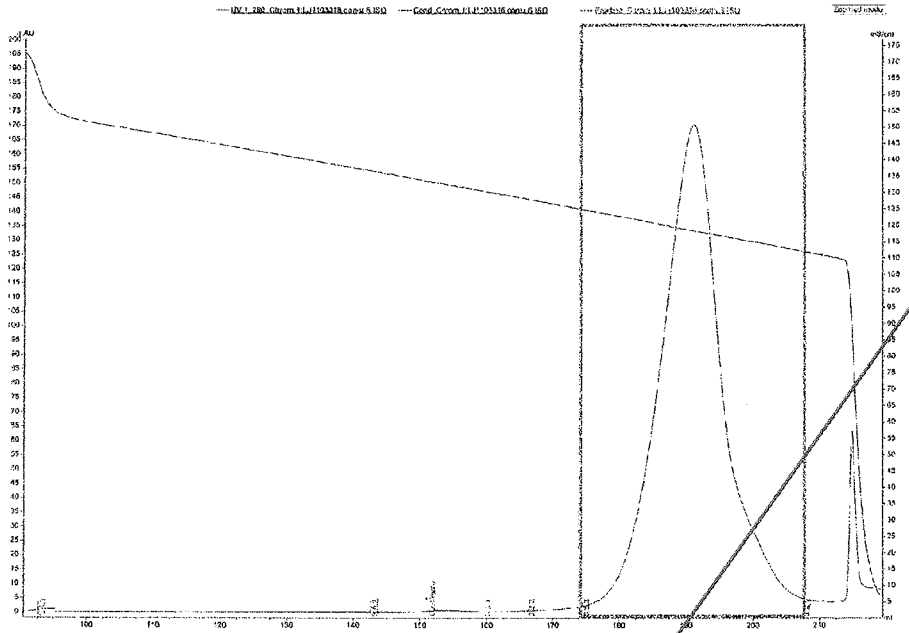
[Fig. 9a]



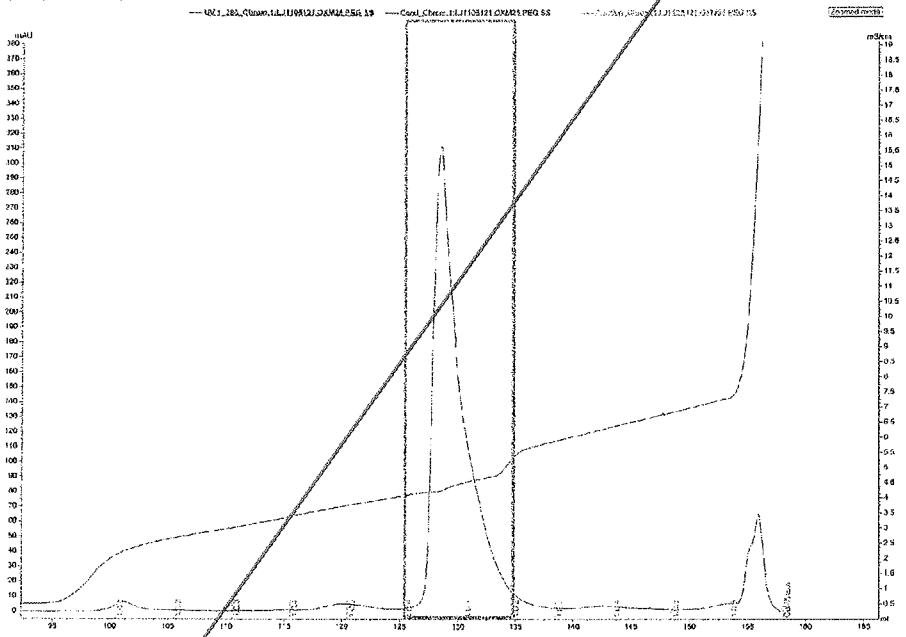
[Fig. 9b]



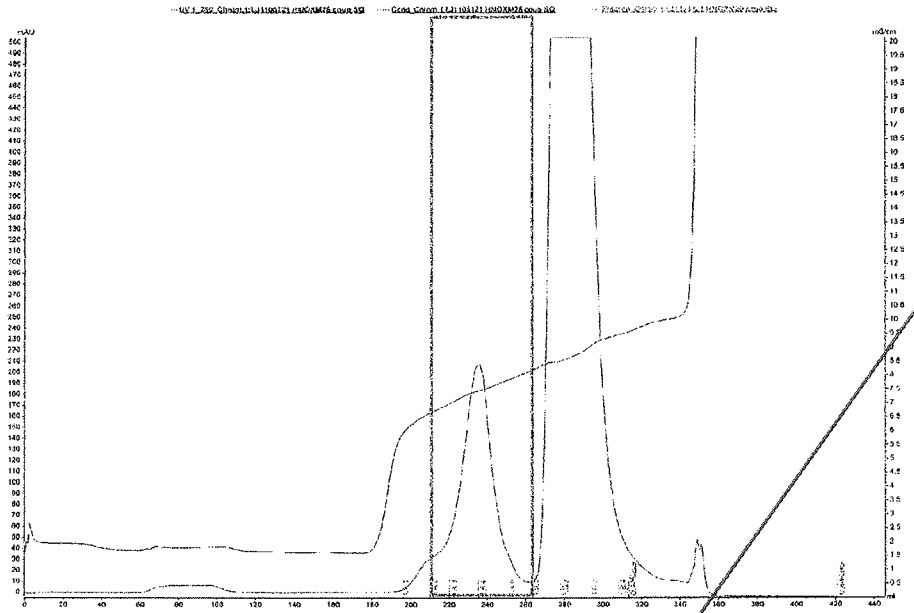
[Fig. 9c]



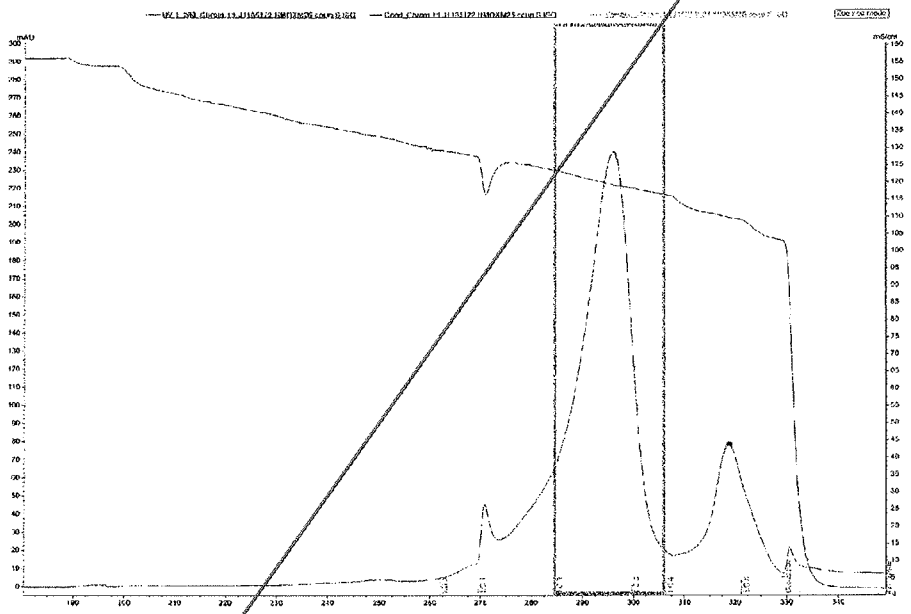
[Fig. 10a]



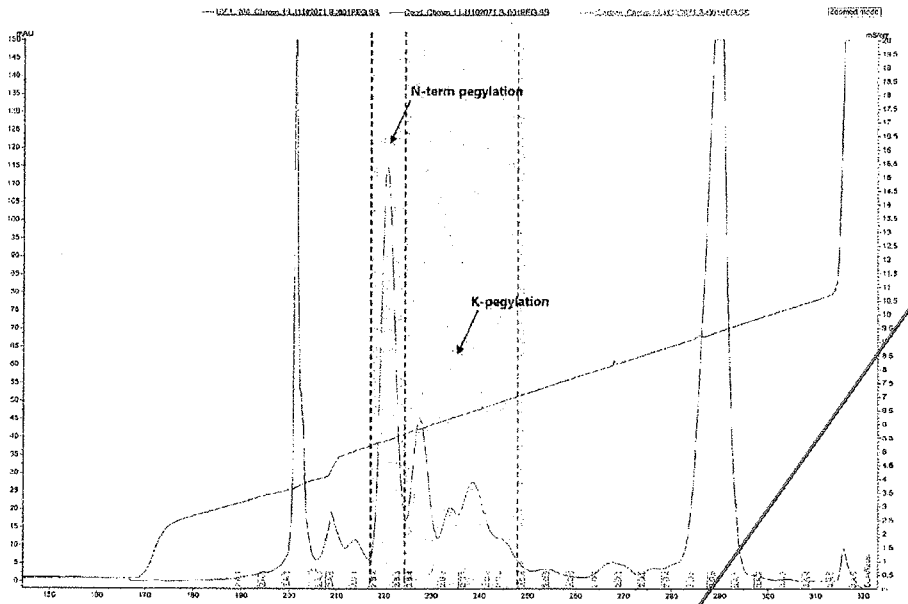
[Fig. 10b]



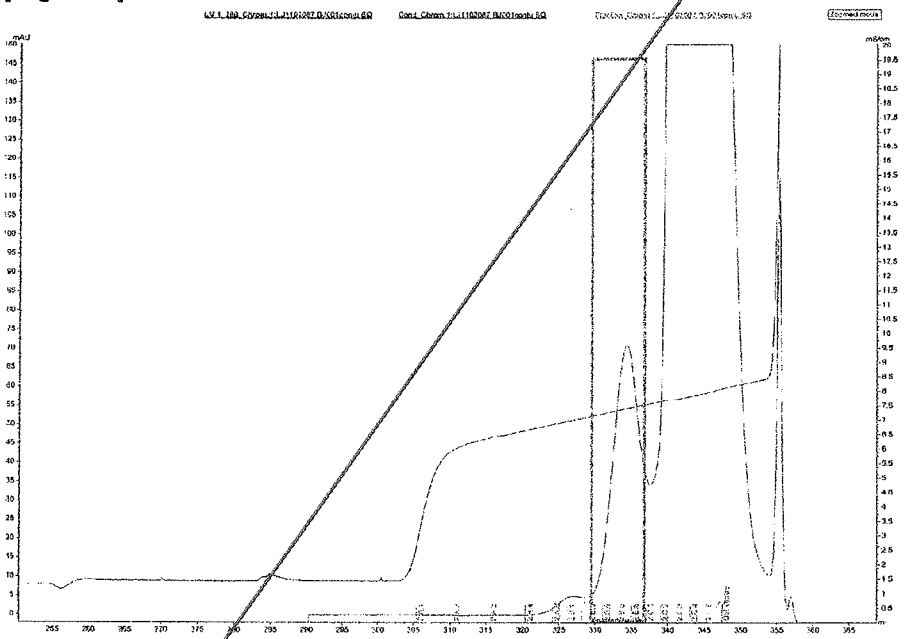
[Fig. 10c]



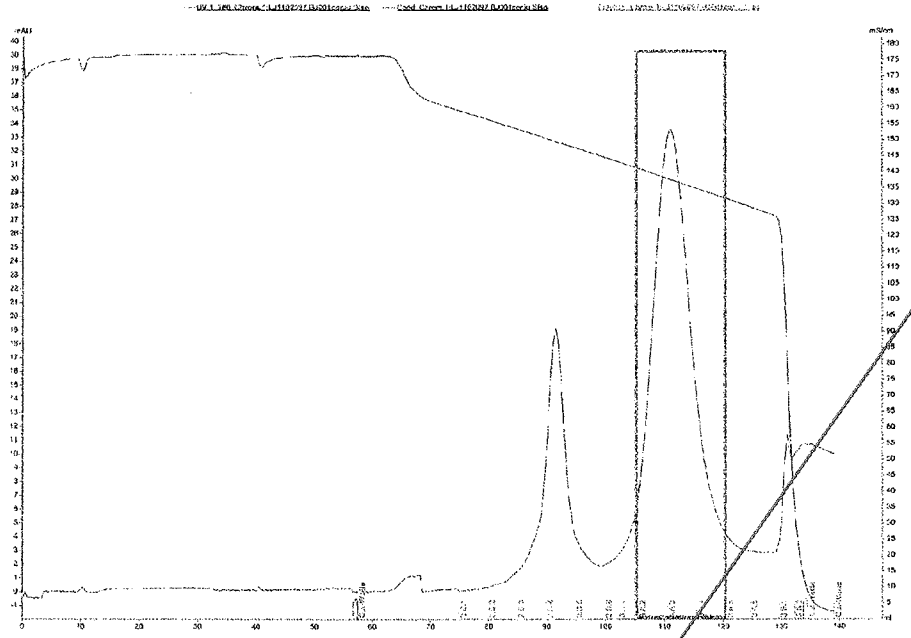
[Fig. 11a]



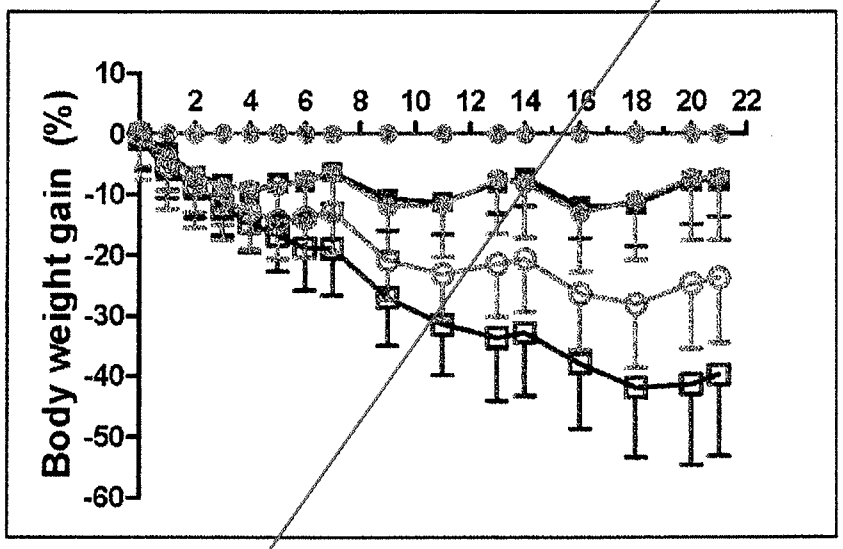
[Fig. 11b]



[Fig. 11c]



[Fig. 12]



Vehicle

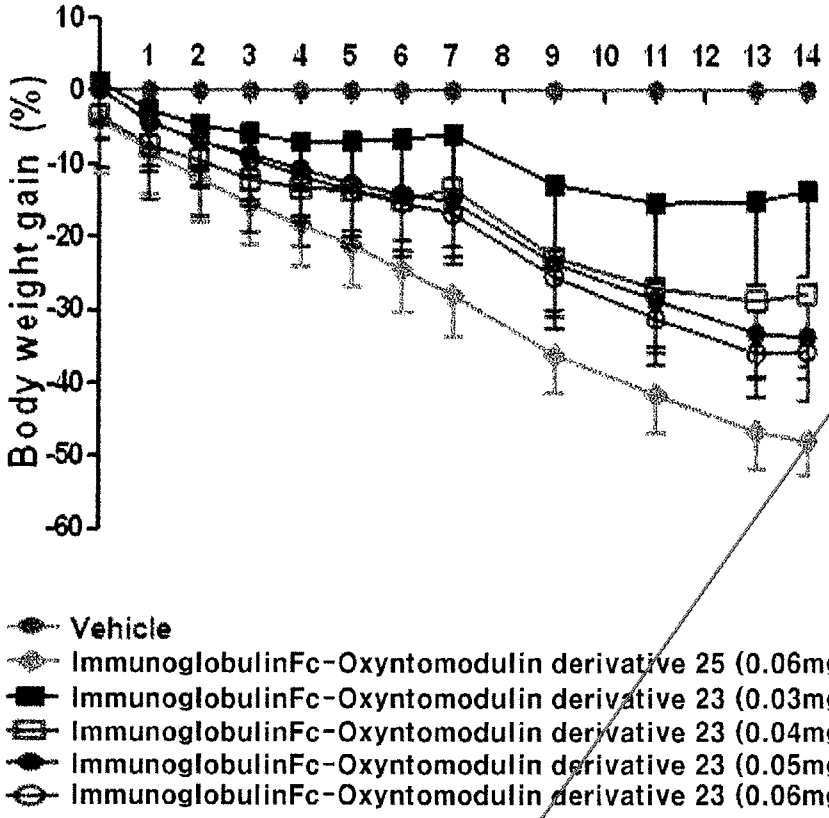
ImmunoglobulinFc-Oxyntomodulin derivative 23 conjugate(0.03mg/kg)

ImmunoglobulinFc-Oxyntomodulin derivative 23 conjugate(0.06mg/kg)

ImmunoglobulinFc-Oxyntomodulin derivative 24 conjugate(0.03mg/kg)

ImmunoglobulinFc-Oxyntomodulin derivative 24 conjugate(0.06mg/kg)

[Fig. 13]


Body weight gain (%)
10
0
-10
-20
-30
-40
-50
-60
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Vehicle
ImmunoglobulinFc-Oxyntomodulin derivative 25 (0.06mg/kg)
ImmunoglobulinFc-Oxyntomodulin derivative 23 (0.03mg/kg)
ImmunoglobulinFc-Oxyntomodulin derivative 23 (0.04mg/kg)
ImmunoglobulinFc-Oxyntomodulin derivative 23 (0.05mg/kg)
ImmunoglobulinFc-Oxyntomodulin derivative 23 (0.06mg/kg)

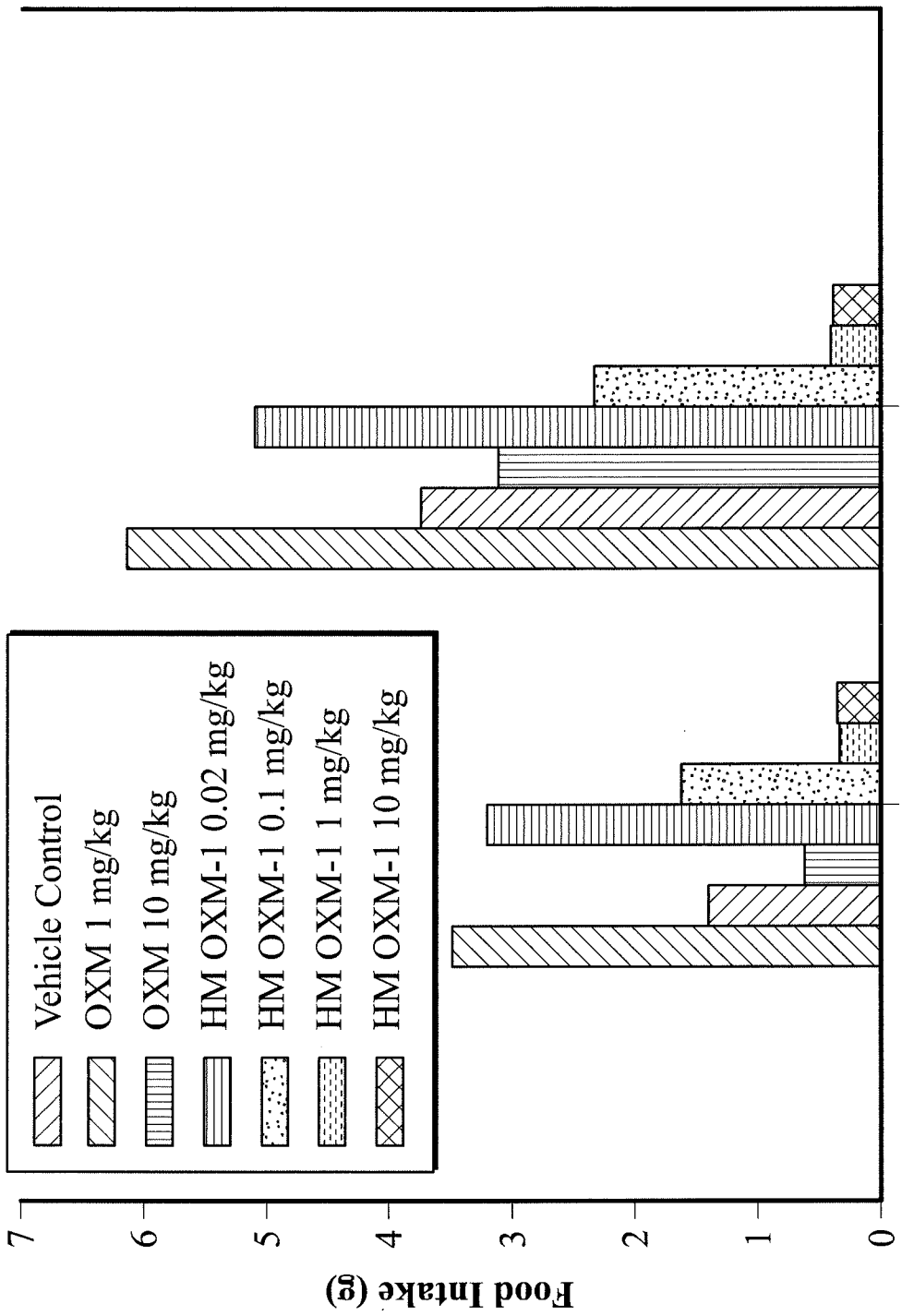

Food Intake (g)
0
1
2
3
4
5
6
7
0-1h
0-2h
Vehicle Control
OXM 1 mg/kg
OXM 10 mg/kg
HM OXM-1 0.02 mg/kg
HM OXM-1 0.1 mg/kg
HM OXM-1 1 mg/kg
HM OXM-1 10 mg/kg

FIG. 1

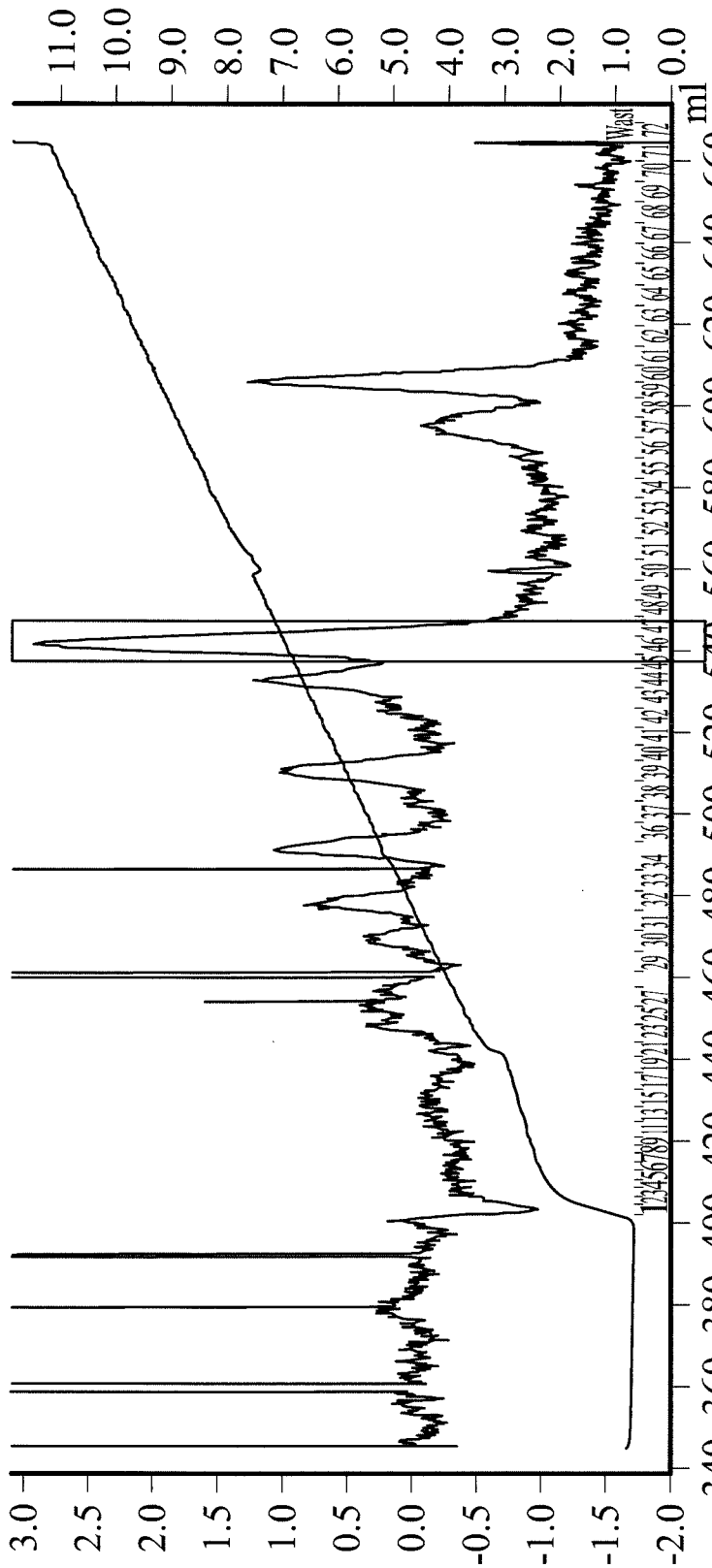

3.0
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
-2.0
340 360 380 400 420 440 460 480 500 520 540 560 580 600 620 640 660
ml
11.0
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Waste

FIG. 2A

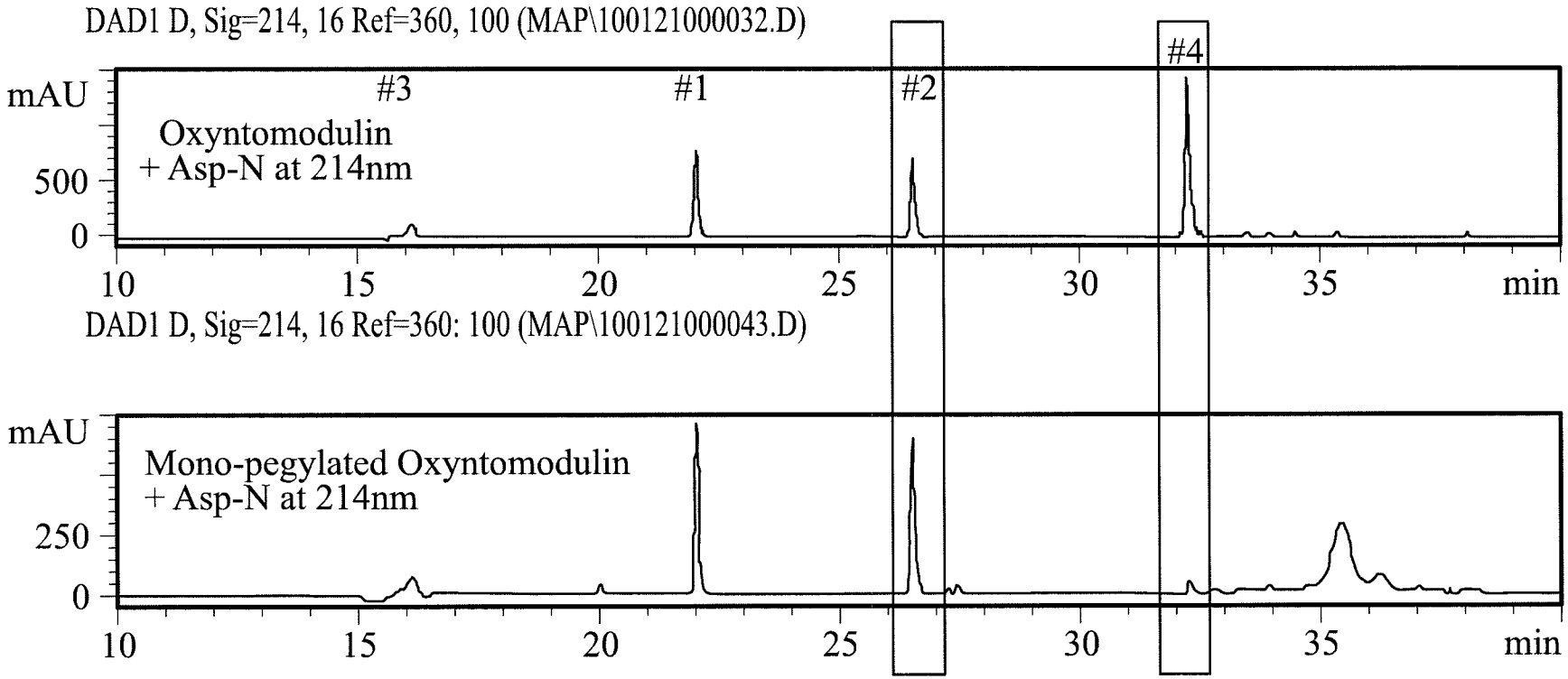

DAD1 D, Sig=214, 16 Ref=360, 100 (MAP\100121000032.D)
mAU
500
0
#3
#1
#2
#4
Oxyntomodulin
+ Asp-N at 214nm
10
15
20
25
30
35
min
DAD1 D, Sig=214, 16 Ref=360: 100 (MAP\100121000043.D)
mAU
250
0
Mono-pegylated Oxyntomodulin
+ Asp-N at 214nm
10
15
20
25
30
35
min

FIG. 2B

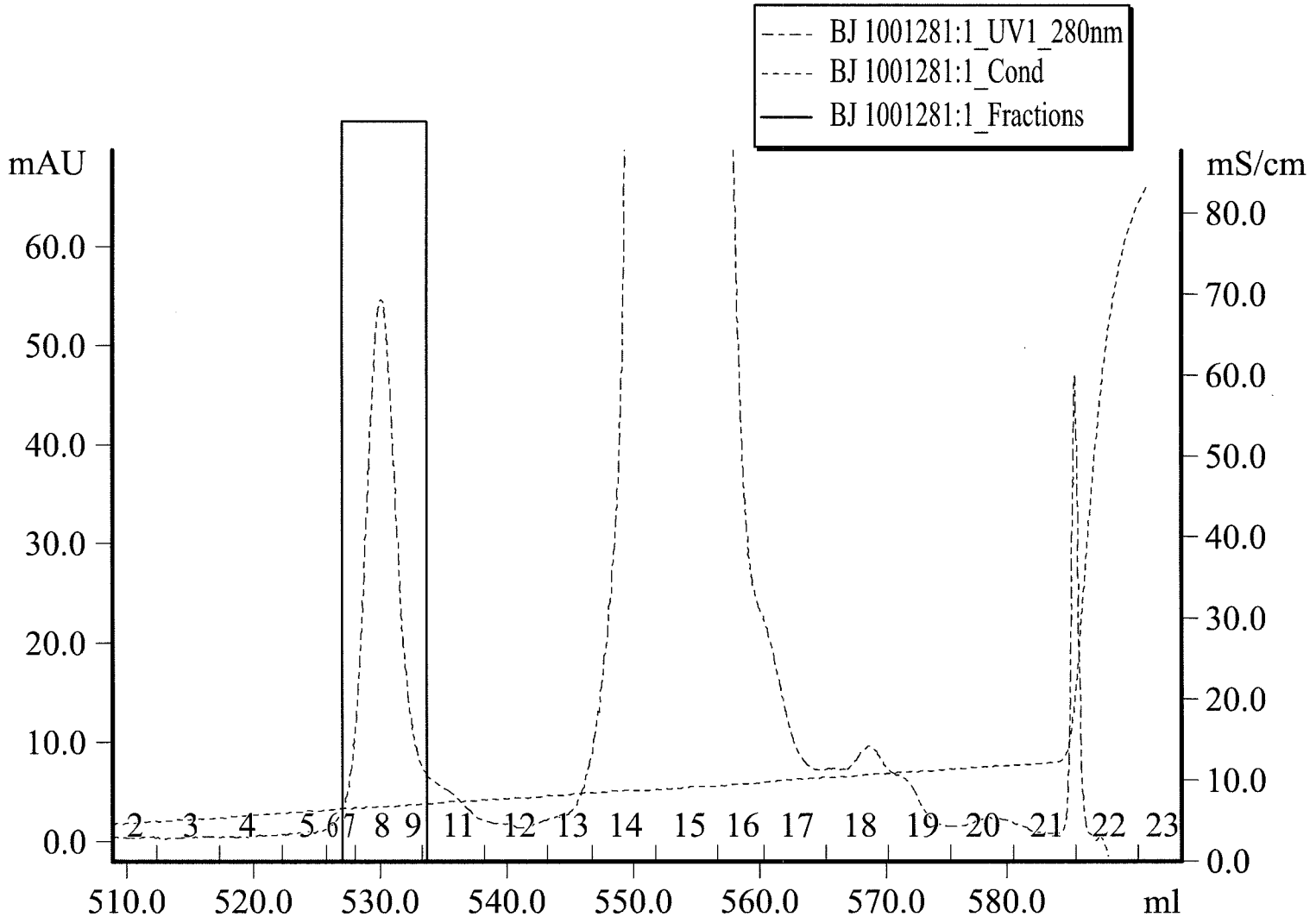

BJ 1001281:1_UV1_280nm
BJ 1001281:1_Cond
BJ 1001281:1_Fractions
mAU
60.0
50.0
40.0
30.0
20.0
10.0
0.0
mS/cm
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
2 3 4 5 6 7 8 9 11 12 13 14 15 16 17 18 19 20 21 22 23
510.0 520.0 530.0 540.0 550.0 560.0 570.0 580.0 ml

FIG. 2C

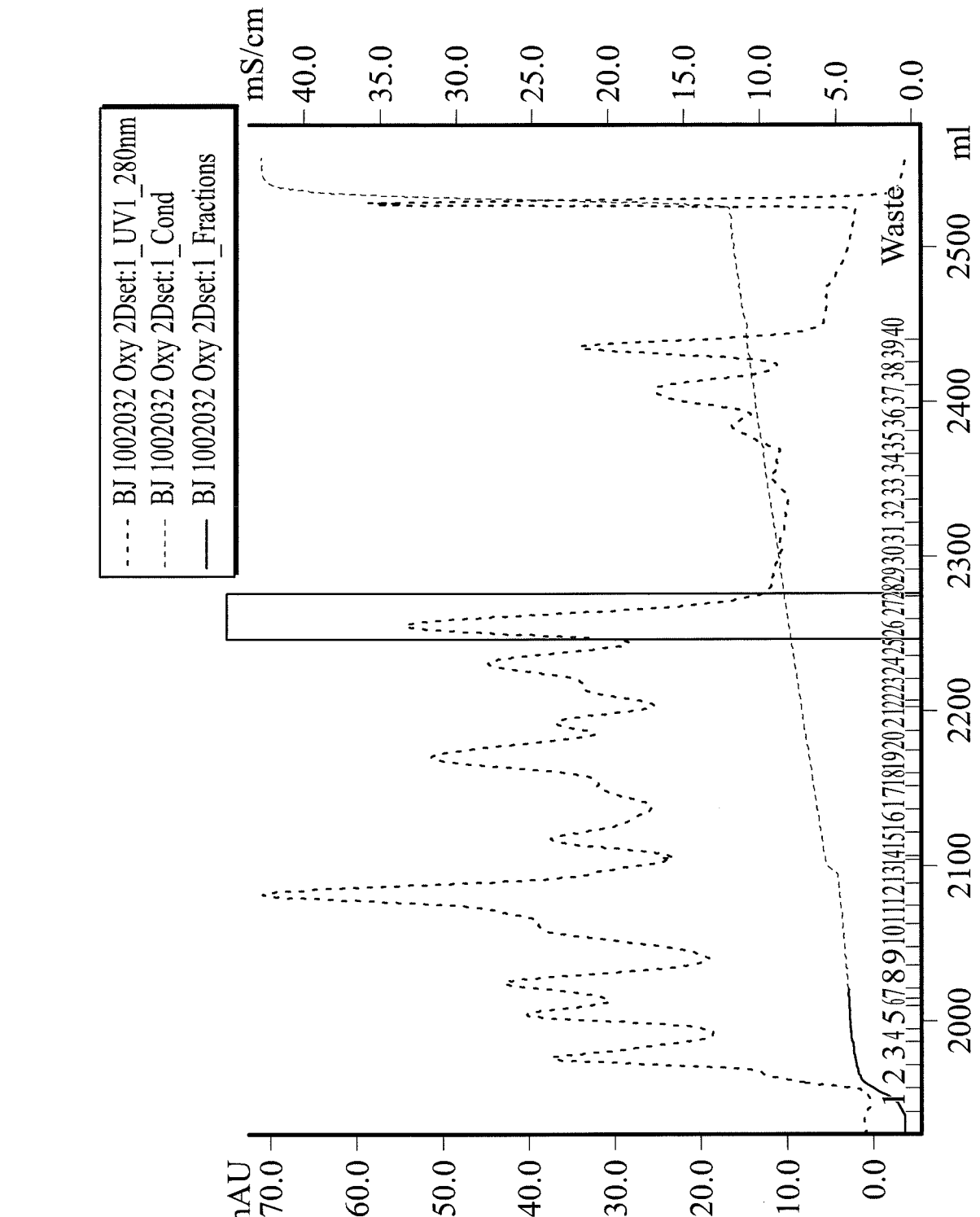

BJ 1002032 Oxy 2Dset:1_UV1_280nm
BJ 1002032 Oxy 2Dset:1_Cond
BJ 1002032 Oxy 2Dset:1_Fractions
mAU
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
mS/cm
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
ml
2000
2100
2200
2300
2400
2500
Waste

FIG. 3A

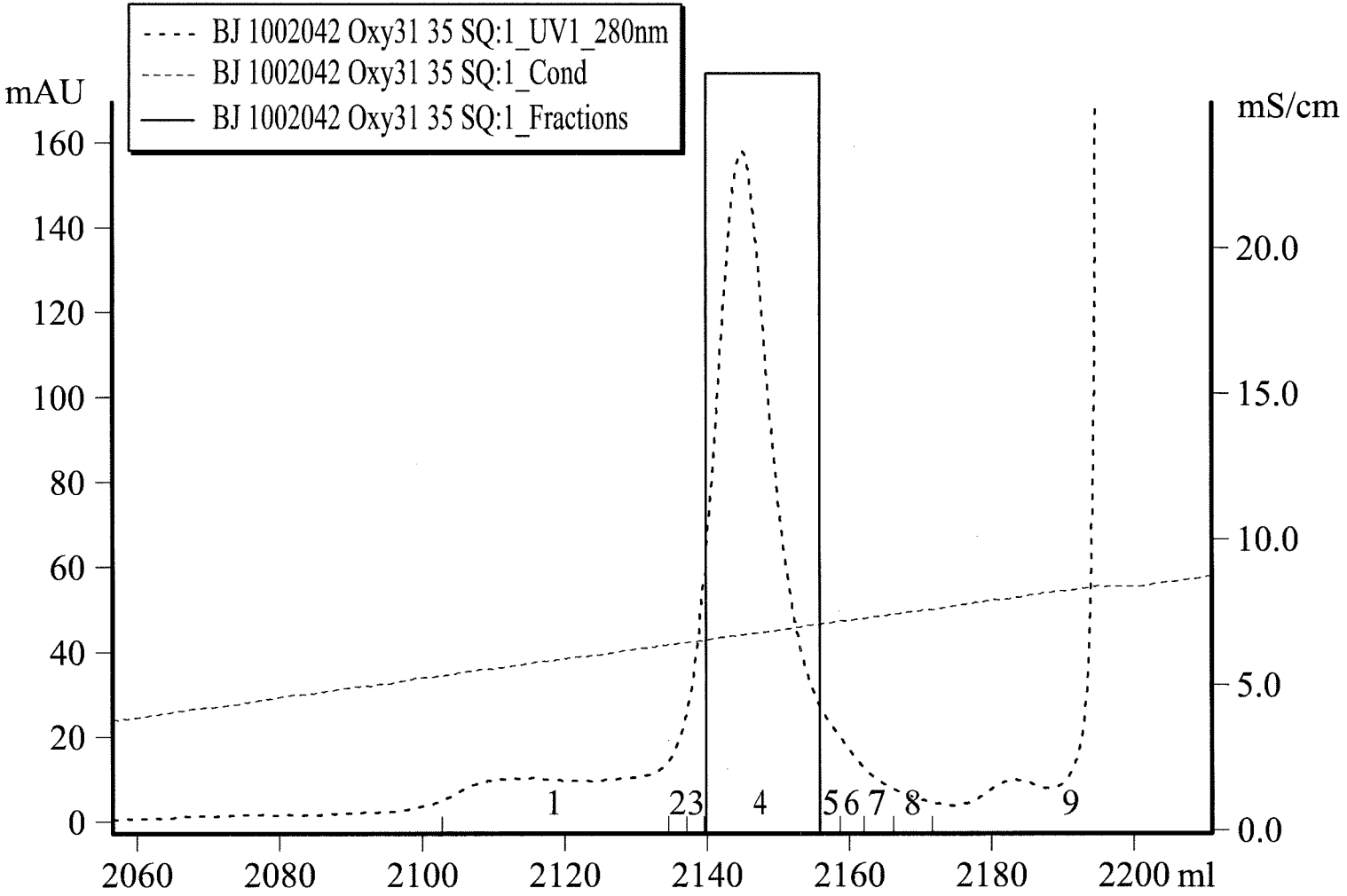

BJ 1002042 Oxy31 35 SQ:1_UV1_280nm
BJ 1002042 Oxy31 35 SQ:1_Cond
BJ 1002042 Oxy31 35 SQ:1_Fractions
mAU
160
140
120
100
80
60
40
20
0
mS/cm
20.0
15.0
10.0
5.0
0.0
1
2
3
4
5
6
7
8
9
2060
2080
2100
2120
2140
2160
2180
2200 ml

FIG. 3B

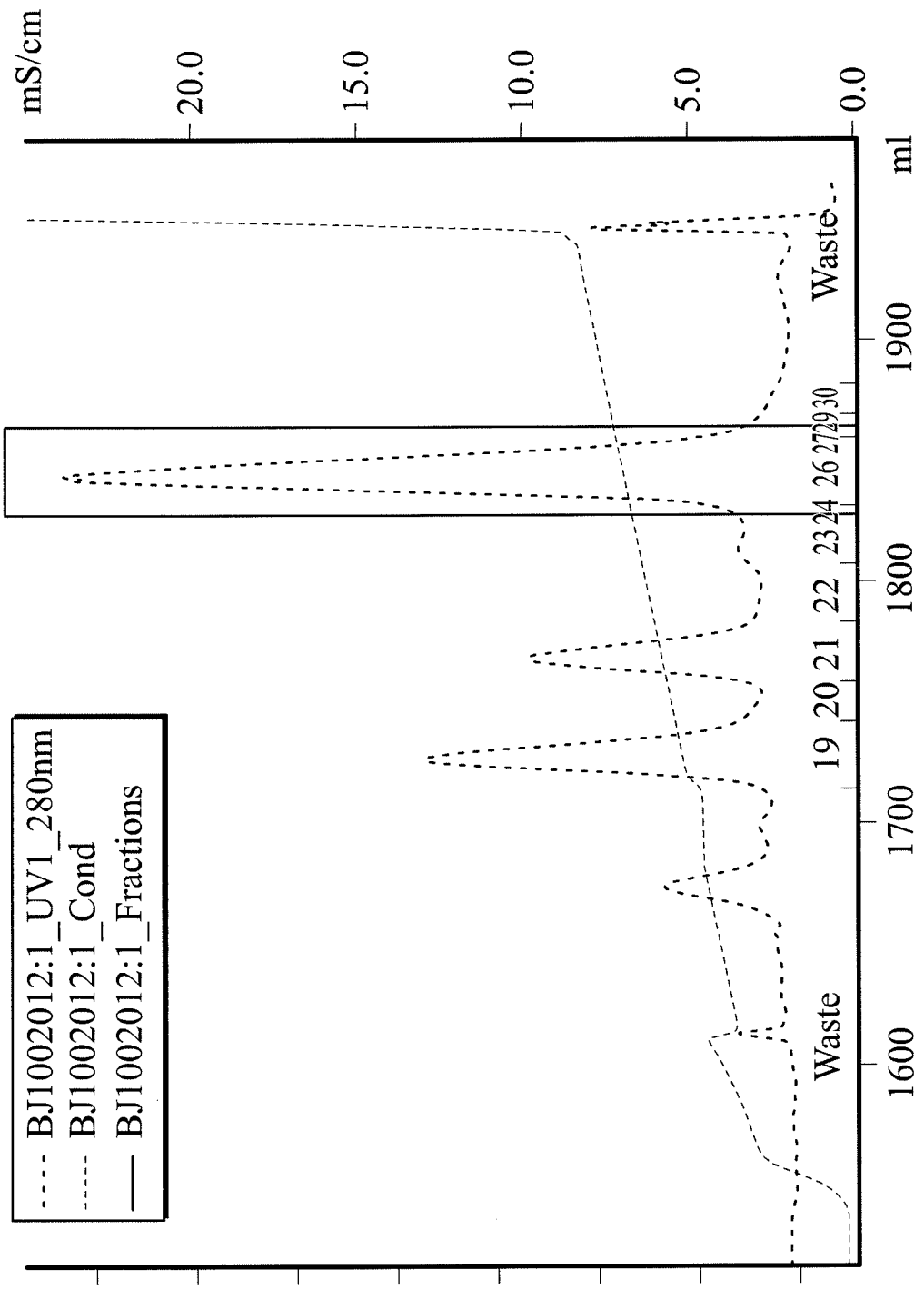

mAU
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
mS/cm
20.0
15.0
10.0
5.0
0.0
ml
1600
1700
1800
1900
Waste
19 20 21 22 23 24 26 27 29 30
Waste
BJ1002012:1_UV1_280nm
BJ1002012:1_Cond
BJ1002012:1_Fractions

FIG. 4A

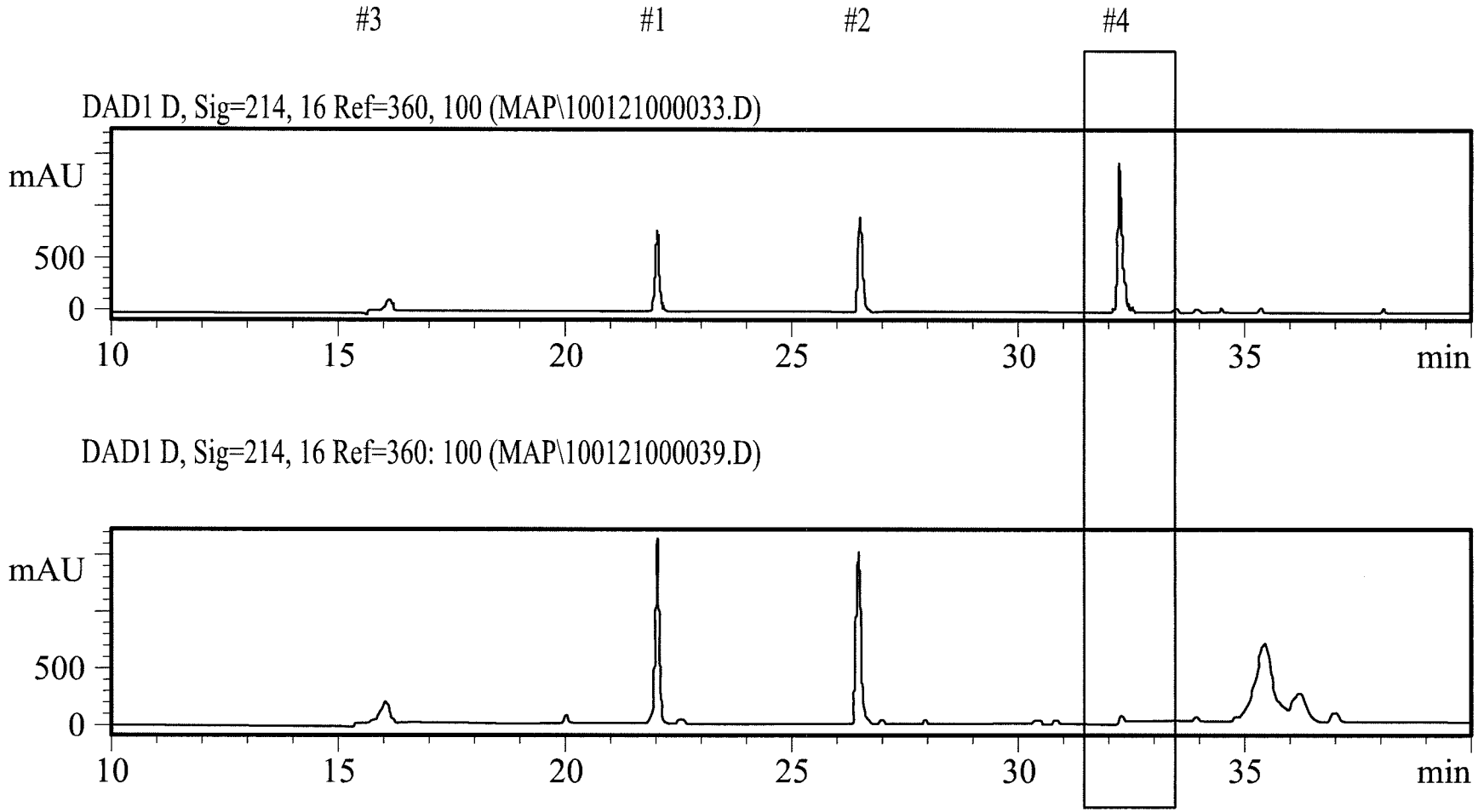

#3
#1
#2
#4
DAD1 D, Sig=214, 16 Ref=360, 100 (MAP\100121000033.D)
mAU
500
0
10
15
20
25
30
35
min
DAD1 D, Sig=214, 16 Ref=360: 100 (MAP\100121000039.D)
mAU
500
0
10
15
20
25
30
35
min

FIG. 4B

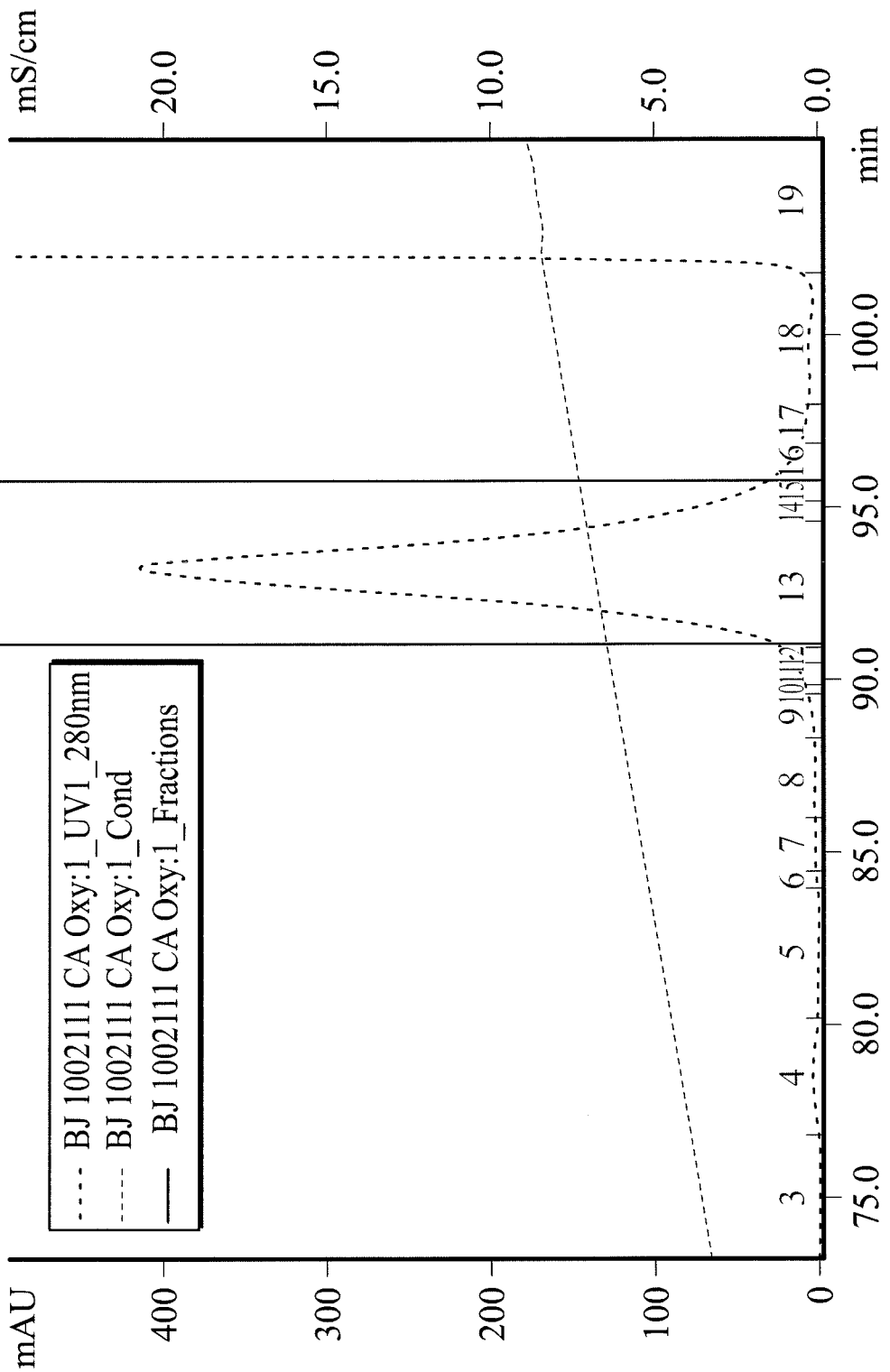

mAU
400
300
200
100
0
mS/cm
20.0
15.0
10.0
5.0
0.0
min
75.0
80.0
85.0
90.0
95.0
100.0
BJ 1002111 CA Oxy:1_UV1_280nm
BJ 1002111 CA Oxy:1_Cond
BJ 1002111 CA Oxy:1_Fractions
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19

FIG. 4C

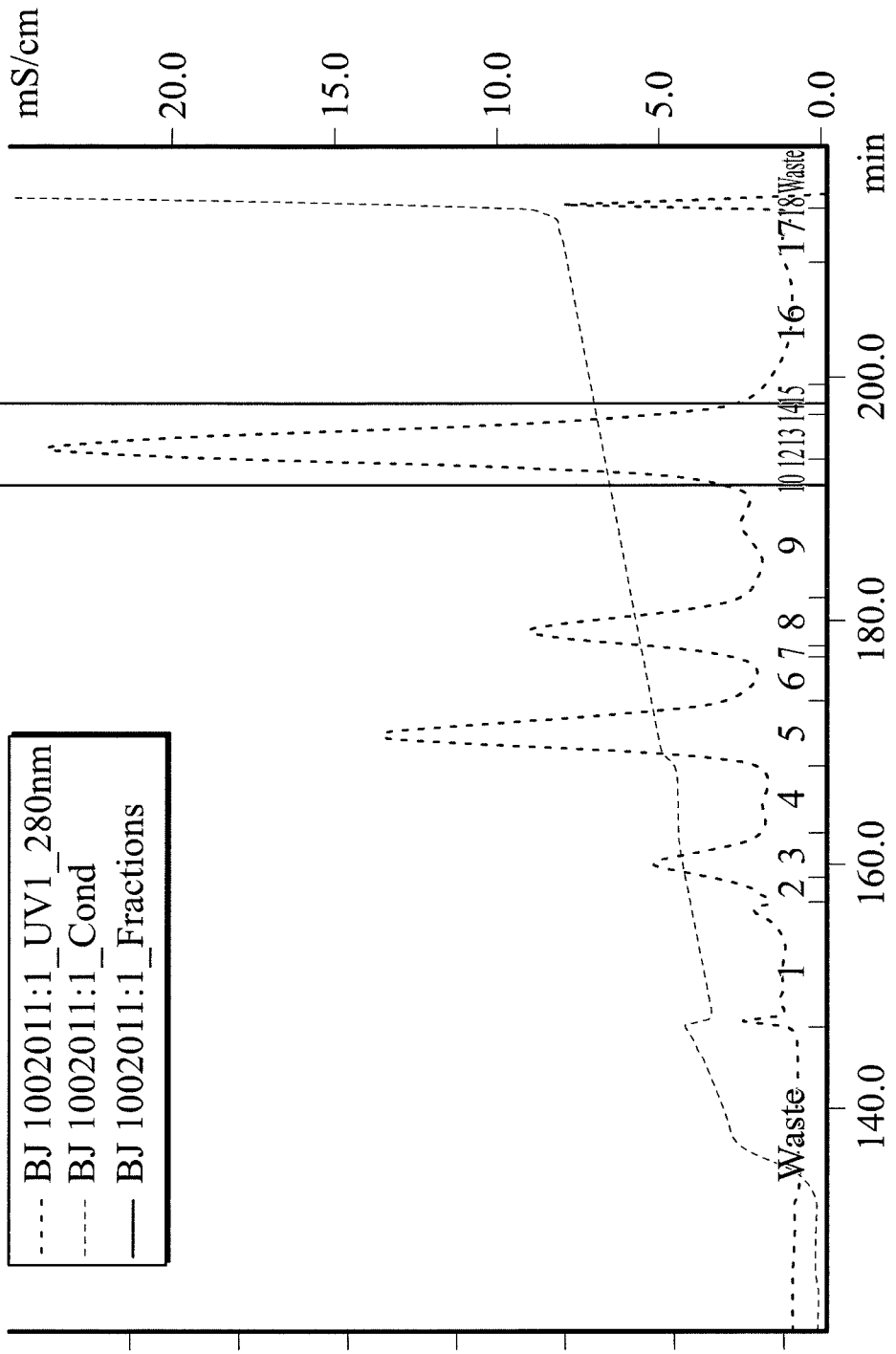

mAU
60.0
50.0
40.0
30.0
20.0
10.0
0.0
mS/cm
20.0
15.0
10.0
5.0
0.0
min
140.0
160.0
180.0
200.0
BJ 1002011:1_UV1_280nm
BJ 1002011:1_Cond
BJ 1002011:1_Fractions
Waste
1
2 3
4
5
6 7 8
9
10 12 13 14 15
16
17 18 Waste

FIG. 5A

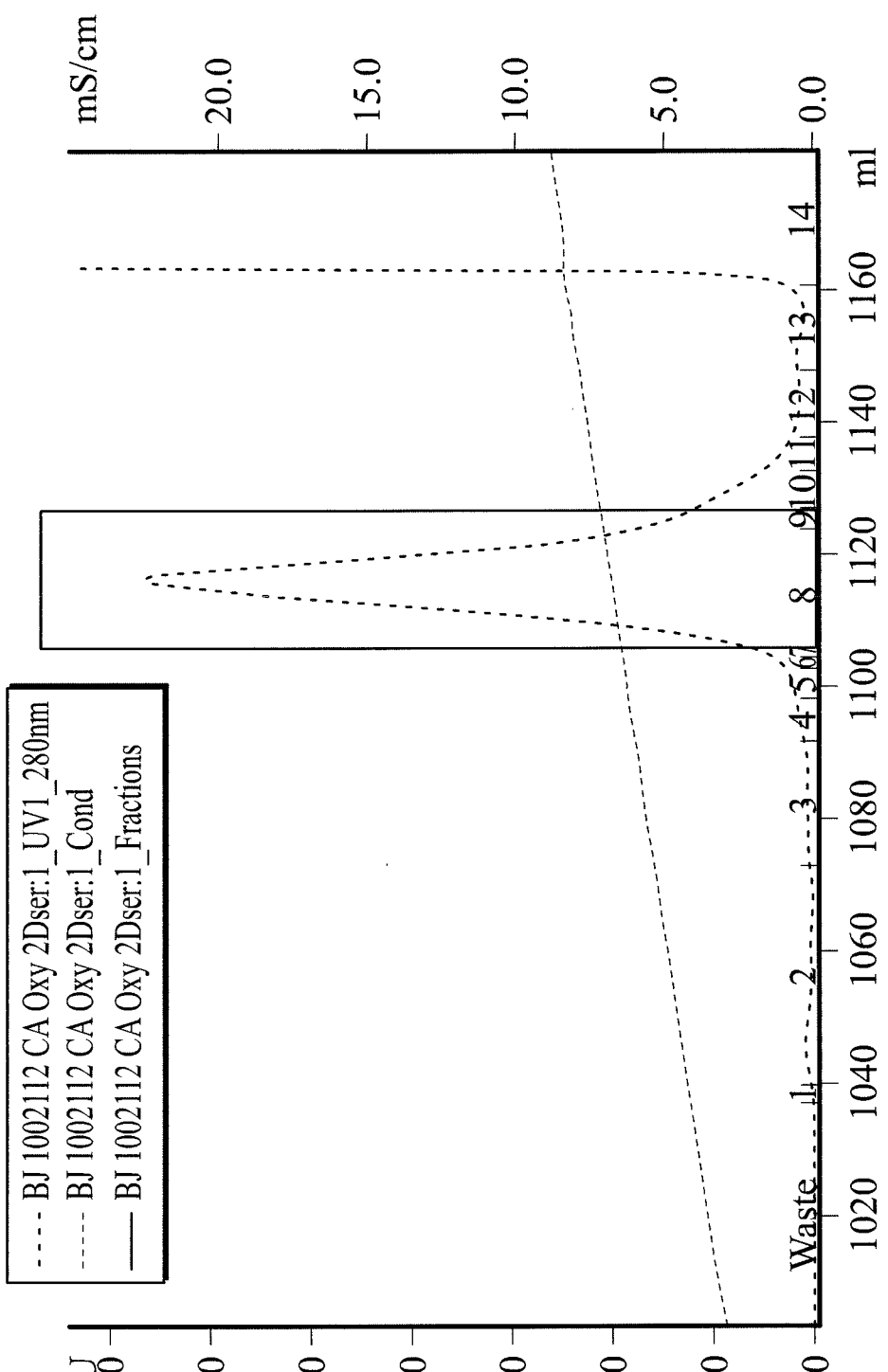

BJ 1002112 CA Oxy 2Dser:1_UV1_280nm
BJ 1002112 CA Oxy 2Dser:1_Cond
BJ 1002112 CA Oxy 2Dser:1_Fractions
mAU
350
300
250
200
150
100
50
0
mS/cm
20.0
15.0
10.0
5.0
0.0
ml
1020
1040
1060
1080
1100
1120
1140
1160
Waste
1
2
3
4
5
6
7
8
9
10
11
12
13
14

FIG. 5B

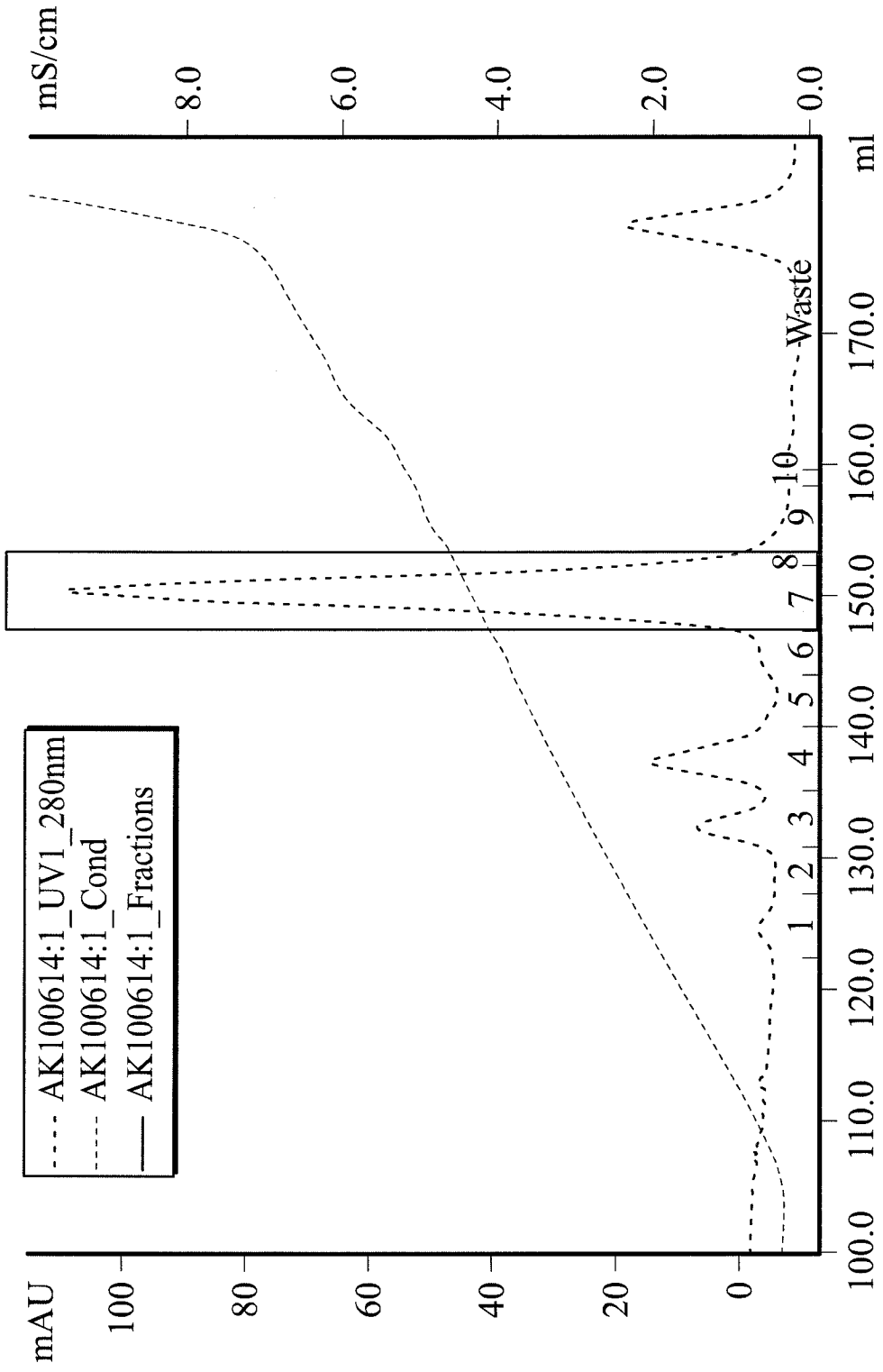

mS/cm
8.0
6.0
4.0
2.0
0.0
ml
Waste
AK100614:1_UV1_280nm
AK100614:1_Cond
AK100614:1_Fractions
mAU
100
80
60
40
20
0
100.0
110.0
120.0
130.0
140.0
150.0
160.0
170.0
1
2
3
4
5
6
7
8
9
10

FIG. 6A

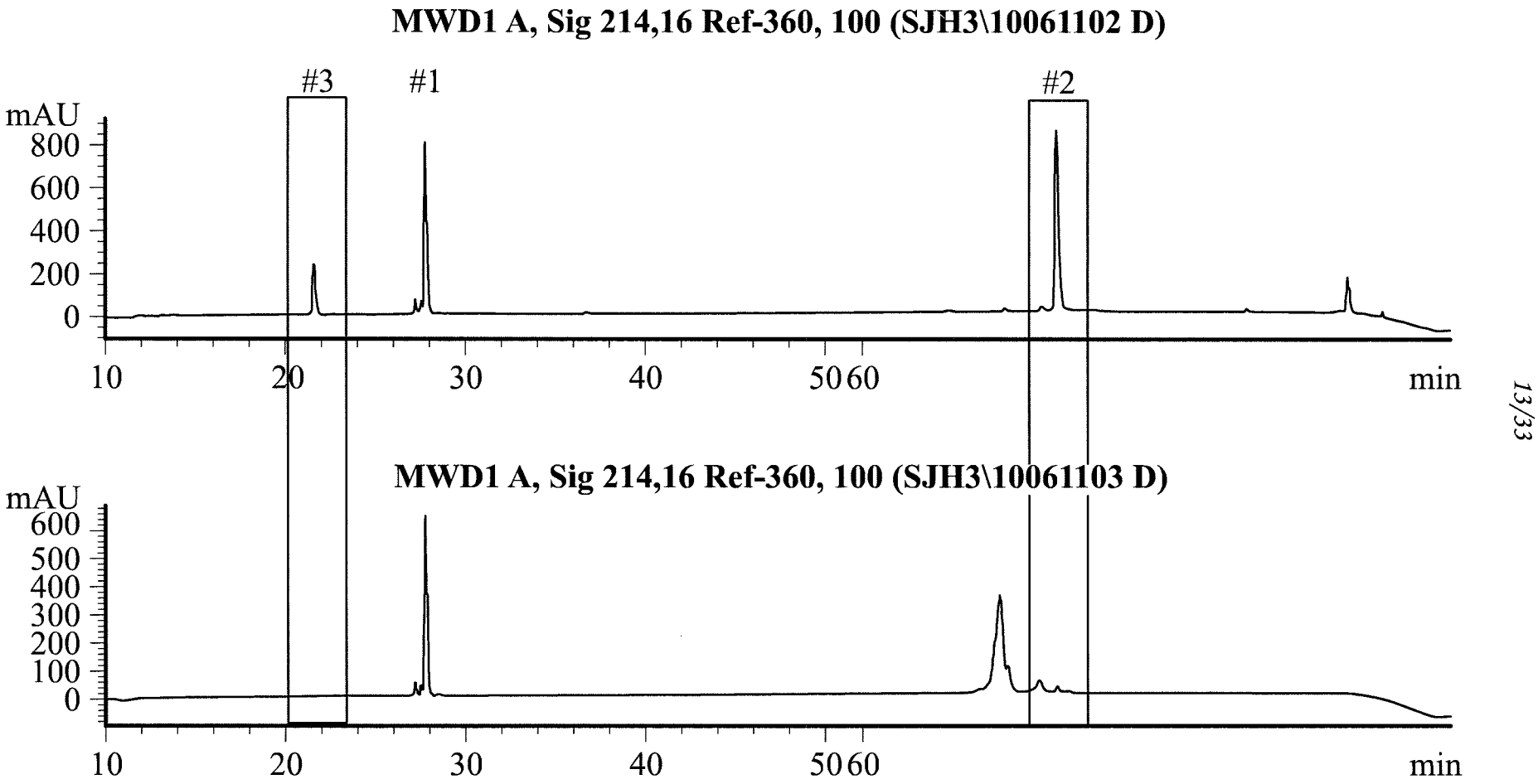

MWD1 A, Sig 214,16 Ref-360, 100 (SJH3\10061102 D)
#3
#1
#2
mAU
800
600
400
200
0
10
20
30
40
50
60
min
MWD1 A, Sig 214,16 Ref-360, 100 (SJH3\10061103 D)
mAU
600
500
400
300
200
100
0
10
20
30
40
50
60
min

FIG. 6B

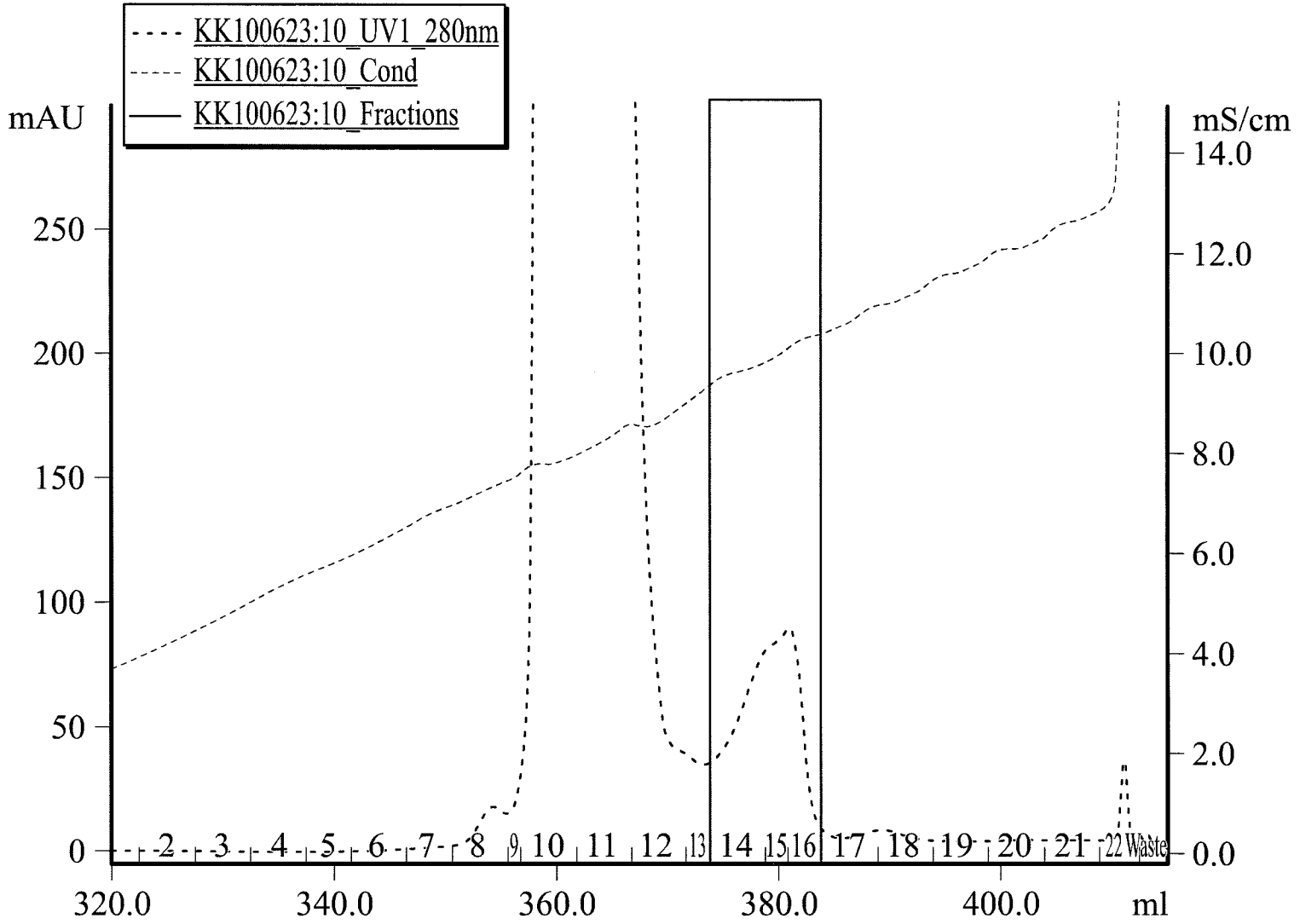

KK100623:10_UV1_280nm
KK100623:10_Cond
KK100623:10_Fractions
mAU
250
200
150
100
50
0
mS/cm
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
Waste
320.0
340.0
360.0
380.0
400.0
ml

FIG. 6C

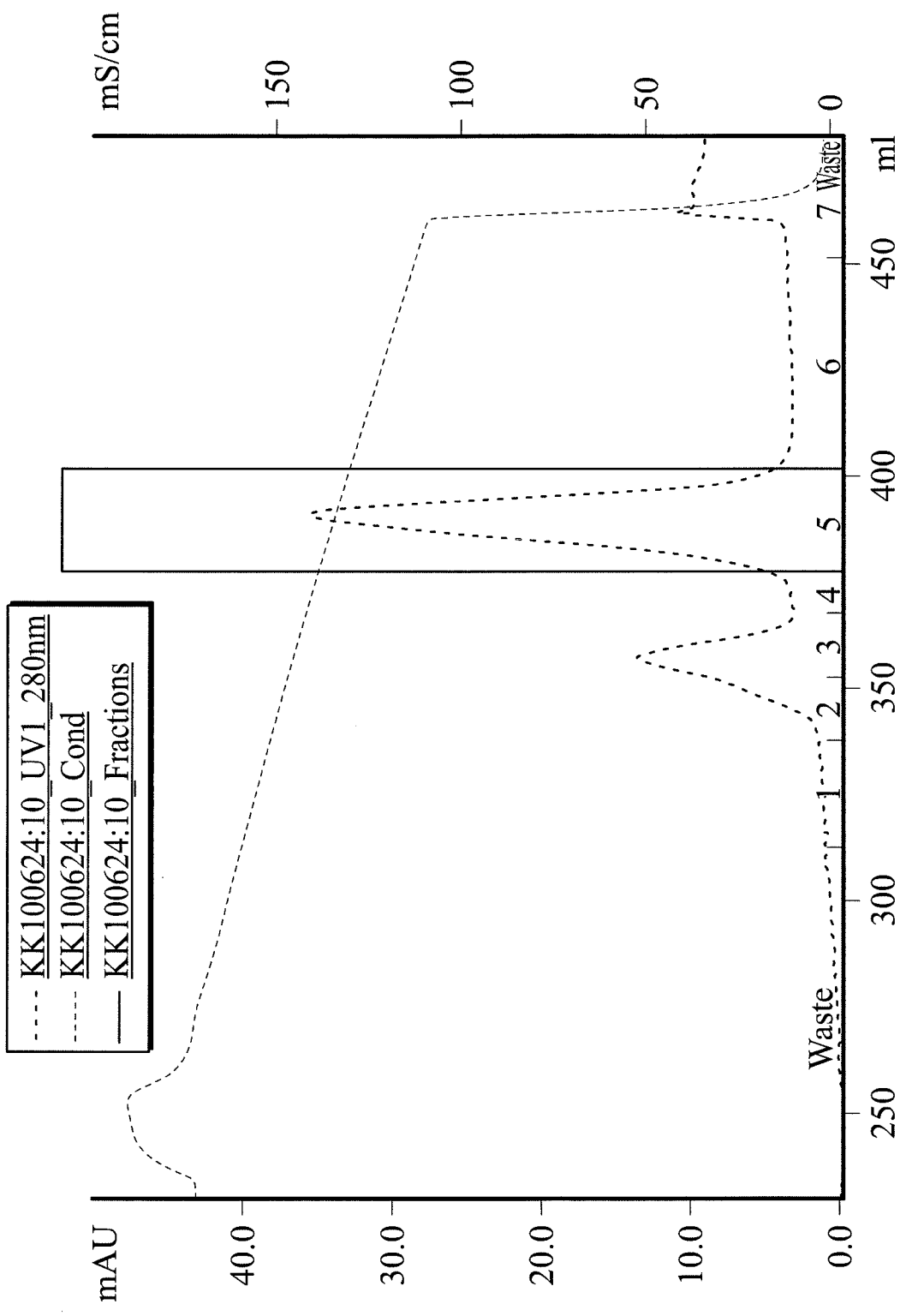

KK100624:10_UV1_280nm
KK100624:10_Cond
KK100624:10_Fractions
mAU
40.0
30.0
20.0
10.0
0.0
mS/cm
150
100
50
0
250
300
350
400
450
ml
Waste
1
2
3
4
5
6
7
Waste

FIG. 6D

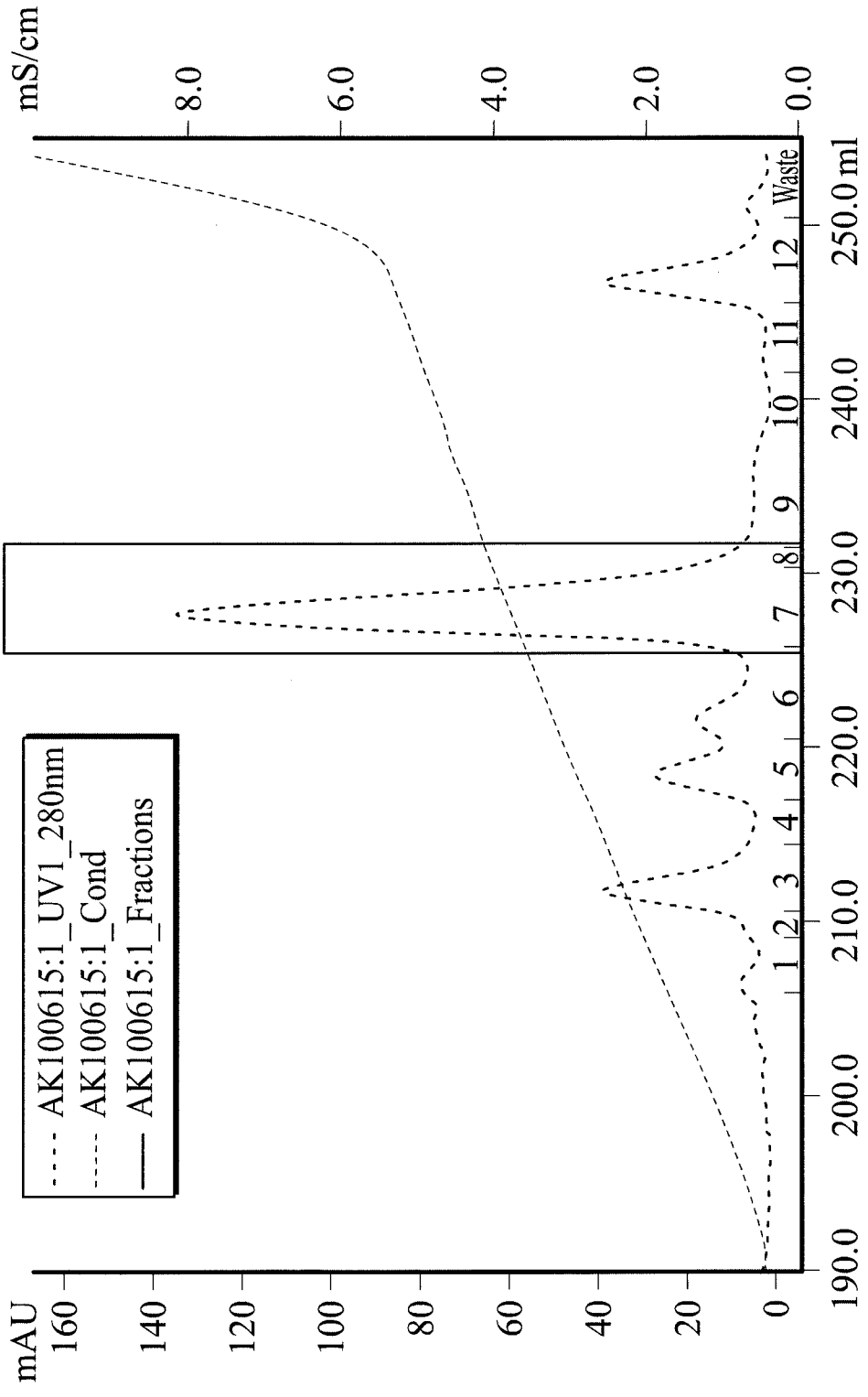

mS/cm
8.0
6.0
4.0
2.0
0.0
mAU
160
140
120
100
80
60
40
20
0
190.0
200.0
210.0
220.0
230.0
240.0
250.0 ml
1
2
3
4
5
6
7
8
9
10
11
12
Waste
AK100615:1_UV1_280nm
AK100615:1_Cond
AK100615:1_Fractions

FIG. 7A

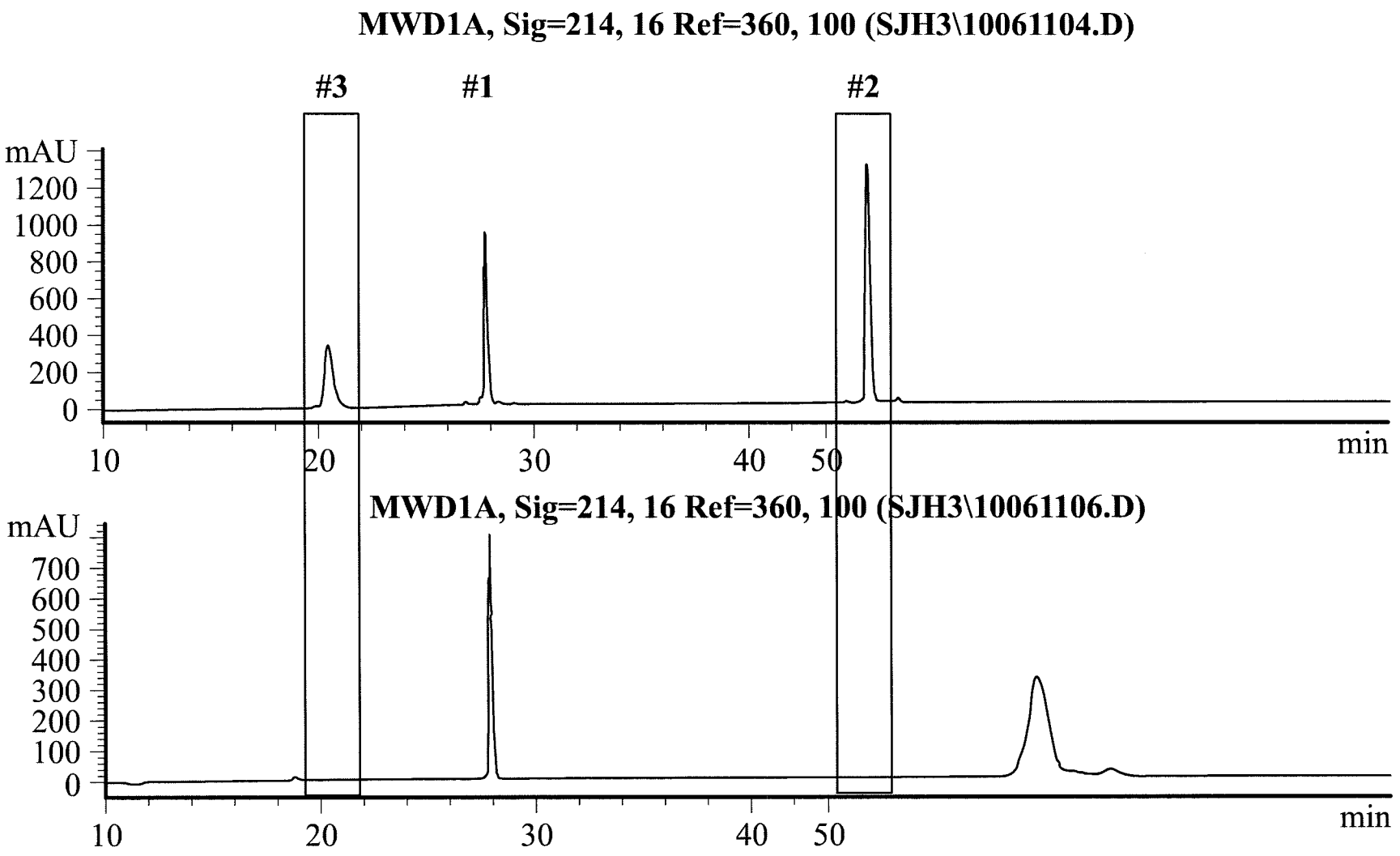

MWD1A, Sig=214, 16 Ref=360, 100 (SJH3\10061104.D)
#3
#1
#2
mAU
1200
1000
800
600
400
200
0
10
20
30
40
50
min
MWD1A, Sig=214, 16 Ref=360, 100 (SJH3\10061106.D)
mAU
700
600
500
400
300
200
100
0
10
20
30
40
50
min

FIG. 7B

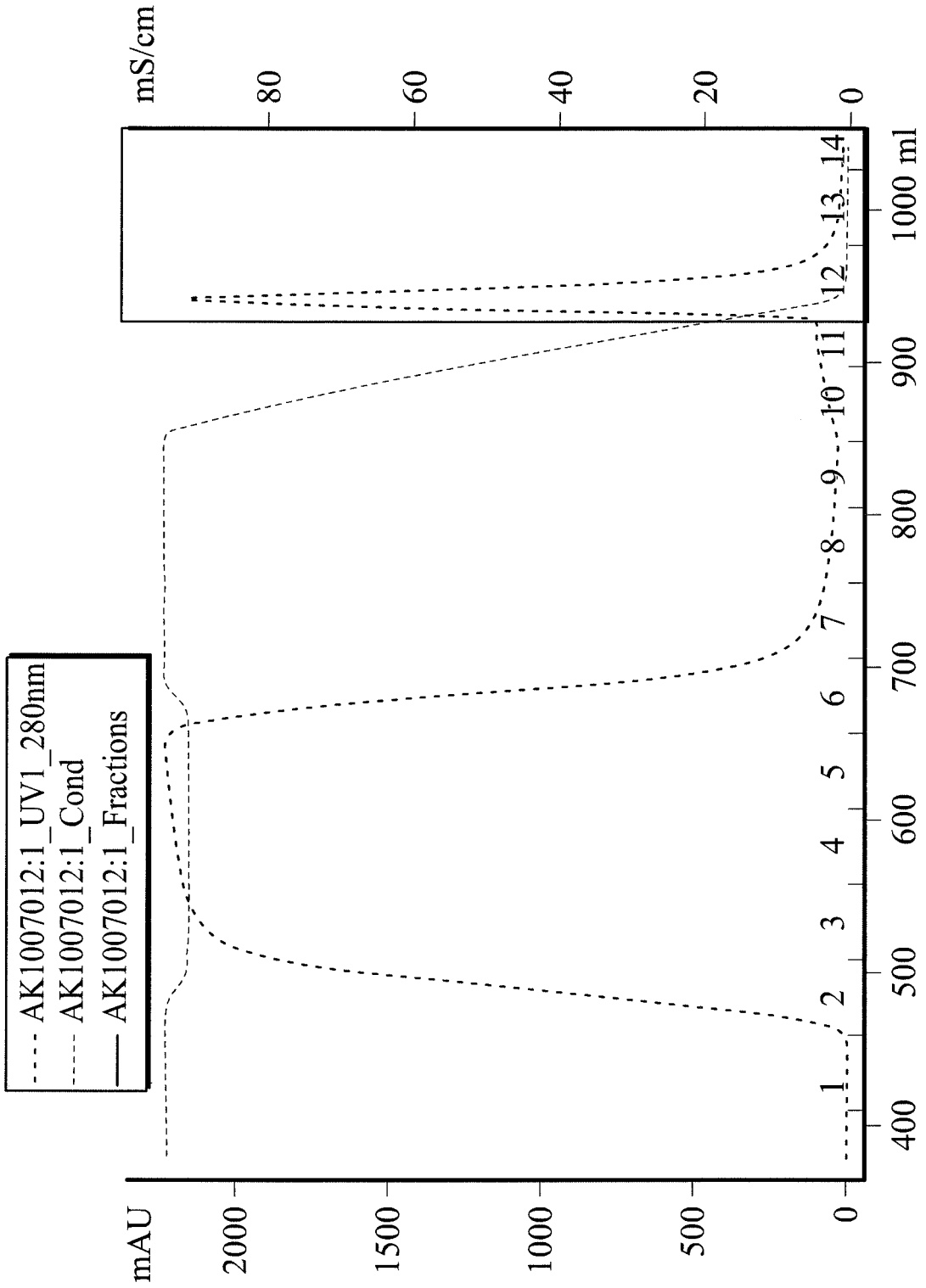

AK1007012:1_UV1_280nm
AK1007012:1_Cond
AK1007012:1_Fractions
mAU
2000
1500
1000
500
0
mS/cm
80
60
40
20
0
400
500
600
700
800
900
1000 ml
1
2
3
4
5
6
7
8
9
10
11
12
13
14

FIG. 7C

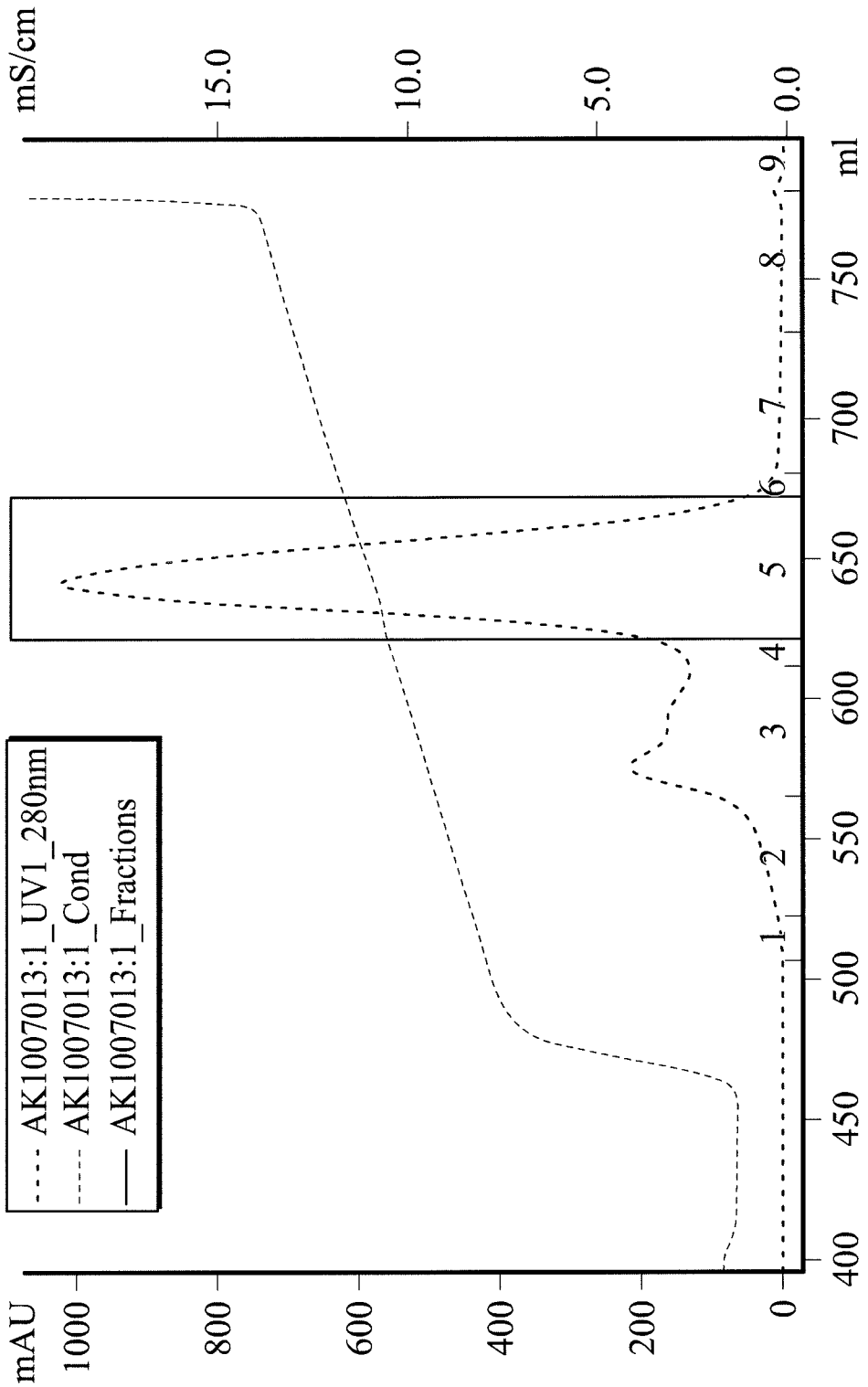

mAU
1000
800
600
400
200
0
mS/cm
15.0
10.0
5.0
0.0
ml
400
450
500
550
600
650
700
750
AK1007013:1_UV1_280nm
AK1007013:1_Cond
AK1007013:1_Fractions
1
2
3
4
5
6
7
8
9

FIG. 7D

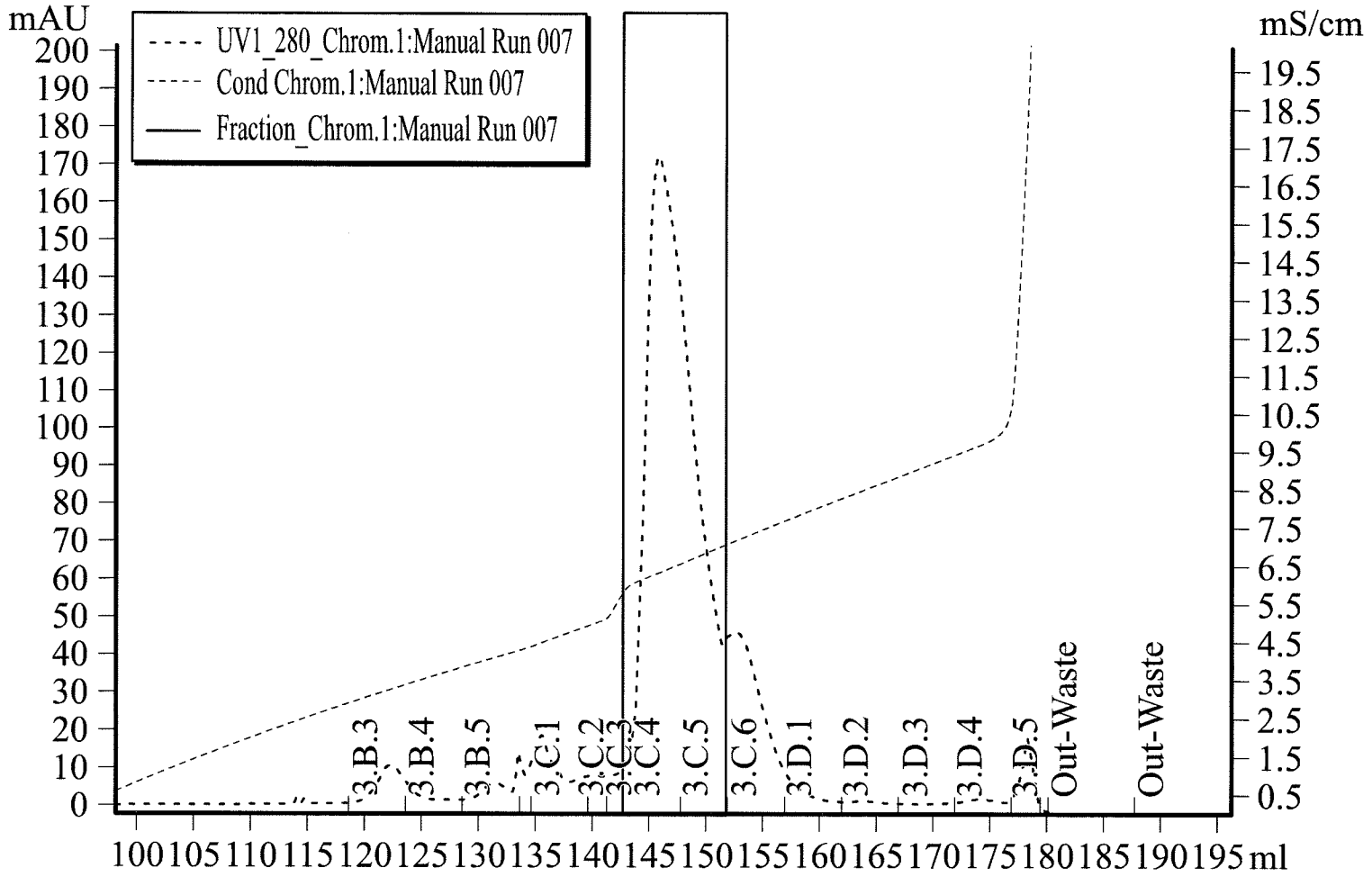

mAU
mS/cm
UV1_280_Chrom.1:Manual Run 007
Cond Chrom.1:Manual Run 007
Fraction_Chrom.1:Manual Run 007
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
19.5
18.5
17.5
16.5
15.5
14.5
13.5
12.5
11.5
10.5
9.5
8.5
7.5
6.5
5.5
4.5
3.5
2.5
1.5
0.5
3.B.3
3.B.4
3.B.5
3.C.1
3.C.2
3.C.3
3.C.4
3.C.5
3.C.6
3.D.1
3.D.2
3.D.3
3.D.4
3.D.5
Out-Waste
Out-Waste
100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 ml

FIG. 8A

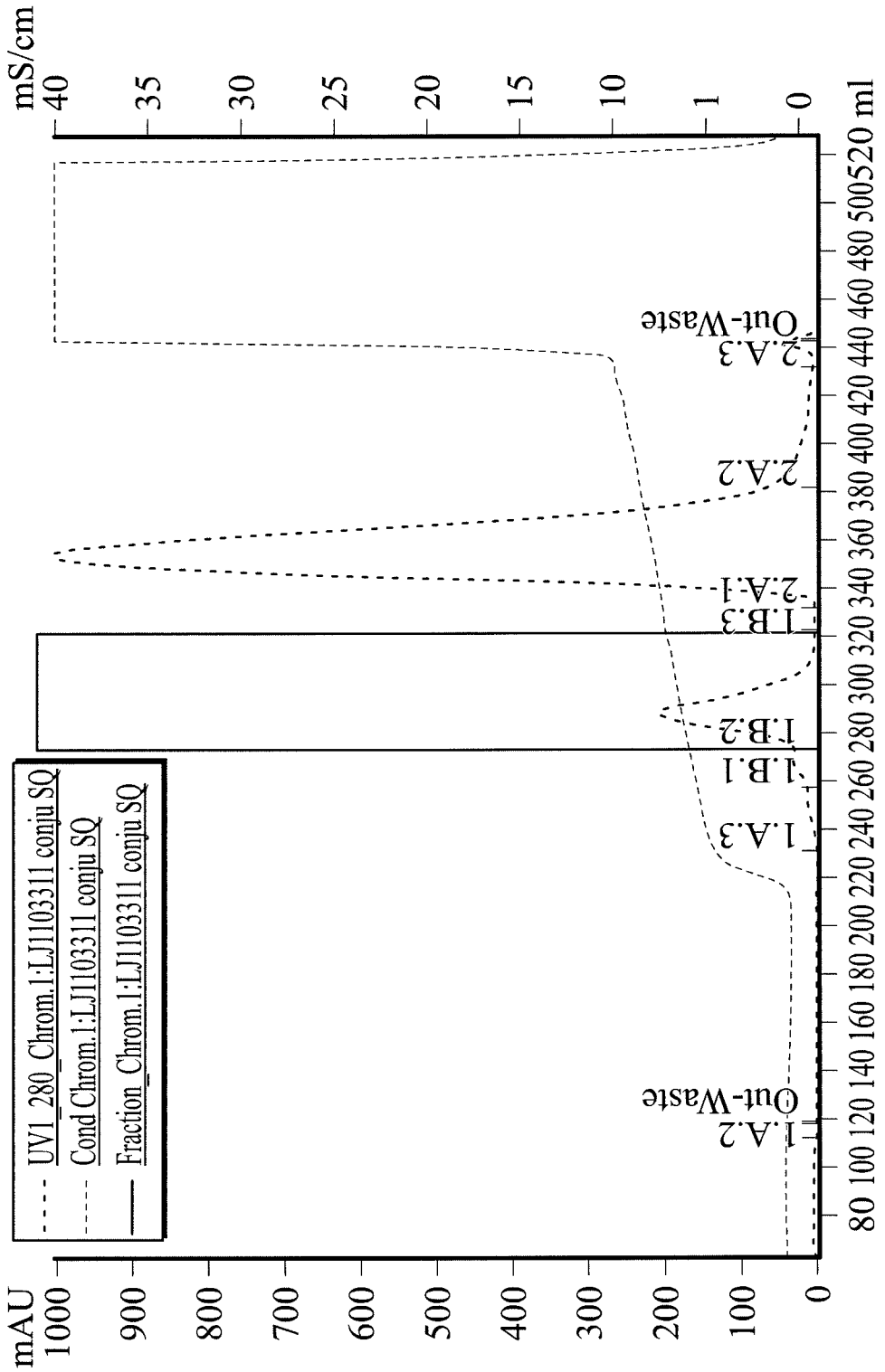

mAU
1000
900
800
700
600
500
400
300
200
100
0
mS/cm
40
35
30
25
20
15
10
1
0
ml
80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420 440 460 480 500 520
UV1_280_Chrom.1:LJ1103311 conju SQ
Cond Chrom.1:LJ1103311 conju SQ
Fraction_Chrom.1:LJ1103311 conju SQ
1.A.2
Out-Waste
1.A.3
1.B.1
1.B.2
1.B.3
2.A.1
2.A.2
2.A.3
Out-Waste

FIG. 8B

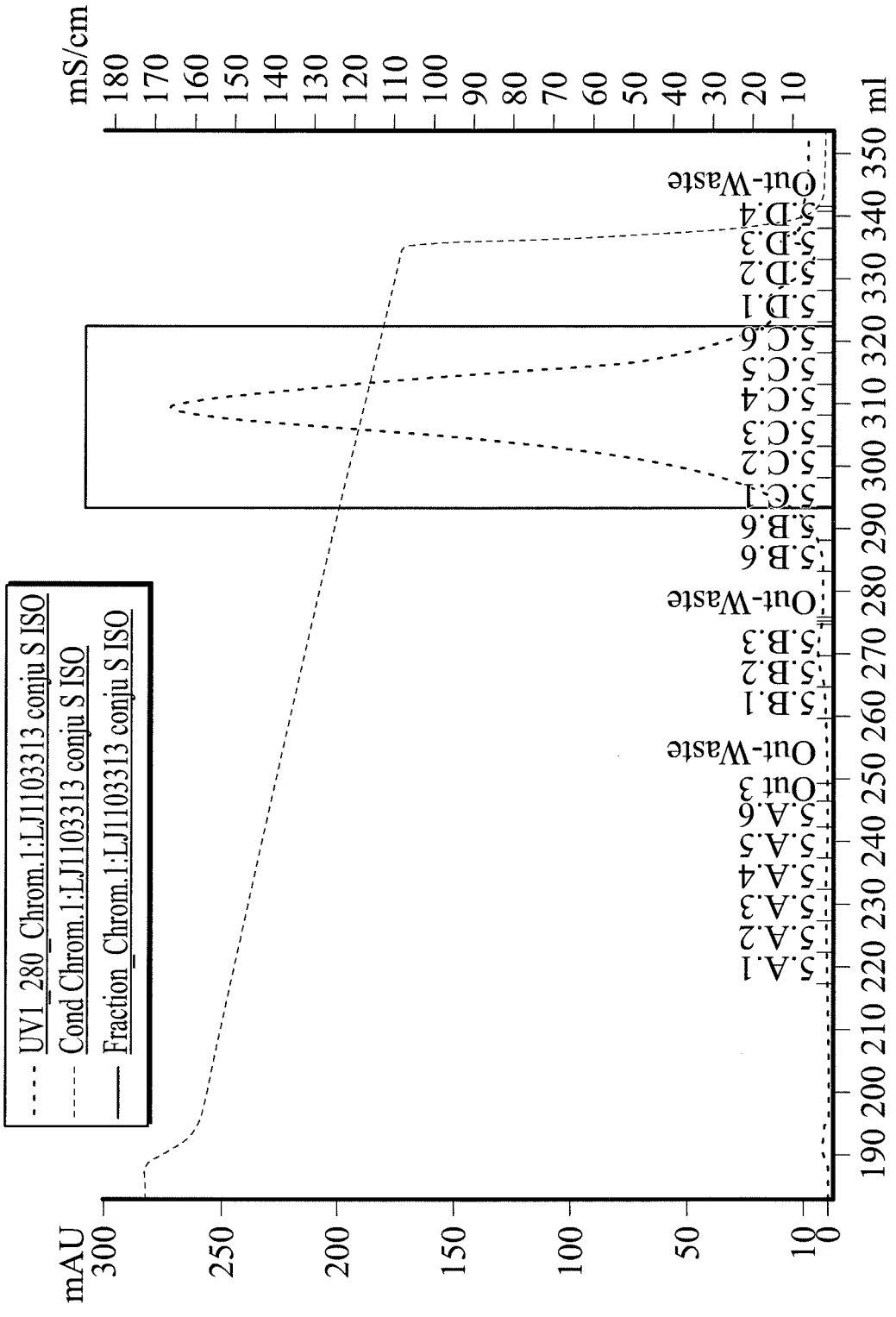

UV1_280_Chrom.1:LJ1103313 conju S ISO
Cond Chrom.1:LJ1103313 conju S ISO
Fraction_Chrom.1:LJ1103313 conju S ISO
mAU
300
250
200
150
100
50
10
0
mS/cm
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 ml
5.A.1
5.A.2
5.A.3
5.A.4
5.A.5
5.A.6
Out 3
Out-Waste
5.B.1
5.B.2
5.B.3
Out-Waste
5.B.6
5.B.6
5.C.1
5.C.2
5.C.3
5.C.4
5.C.5
5.C.6
5.D.1
5.D.2
5.D.3
5.D.4
Out-Waste

FIG. 8C

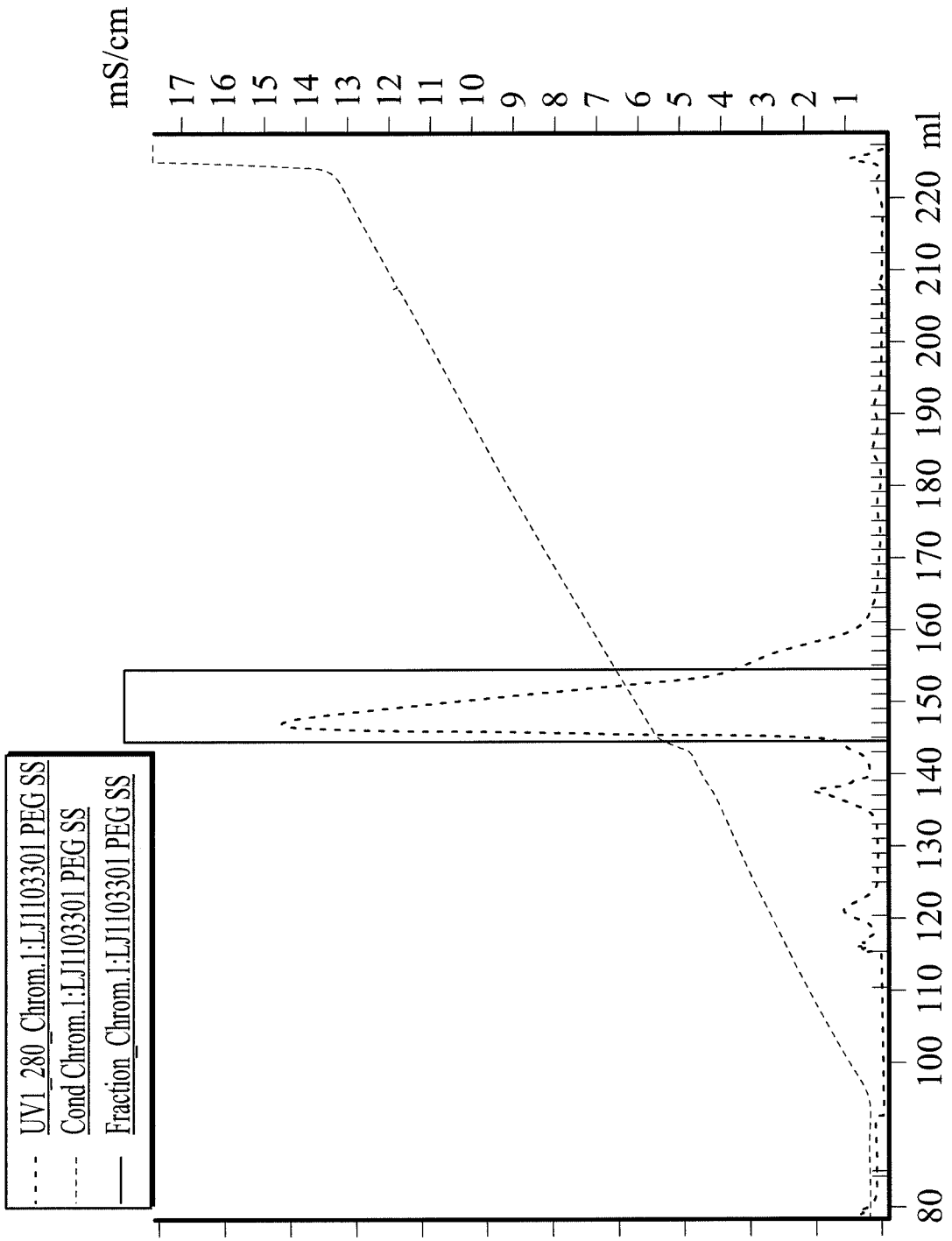

UV1_280_Chrom.1:LJ1103301 PEG SS
Cond Chrom.1:LJ1103301 PEG SS
Fraction_Chrom.1:LJ1103301 PEG SS
mAU
mS/cm
ml
0
20
40
60
80
100
120
140
160
180
200
220
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
80
100
110
120
130
140
150
160
170
180
190
200
210
220

FIG. 9A

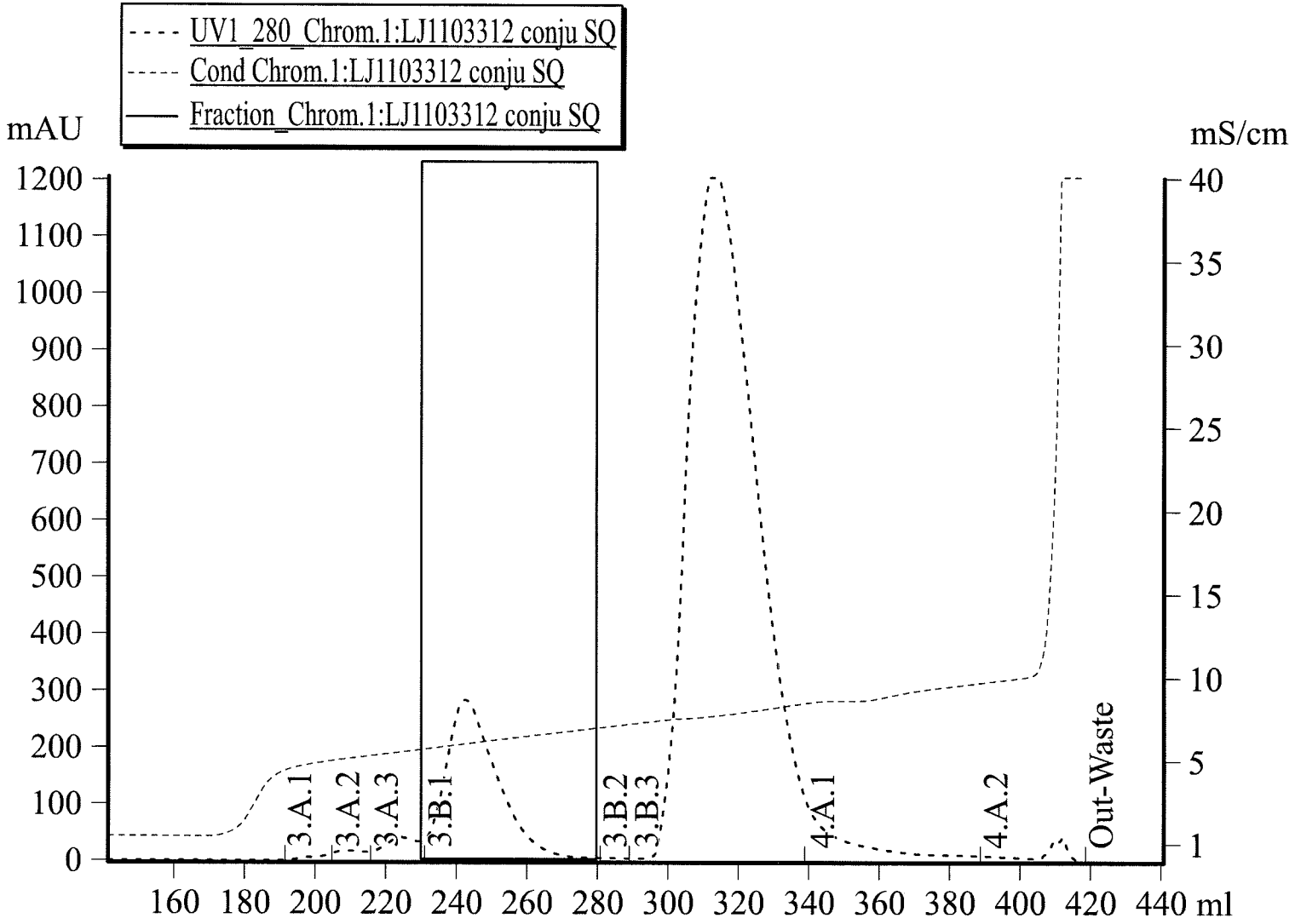

UV1_280_Chrom.1:LJ1103312 conju SQ
Cond Chrom.1:LJ1103312 conju SQ
Fraction_Chrom.1:LJ1103312 conju SQ
mAU
mS/cm
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
40
35
30
25
20
15
10
5
1
160 180 200 220 240 260 280 300 320 340 360 380 400 420 440 ml
3.A.1
3.A.2
3.A.3
3.B.1
3.B.2
3.B.3
4.A.1
4.A.2
Out-Waste

FIG. 9B

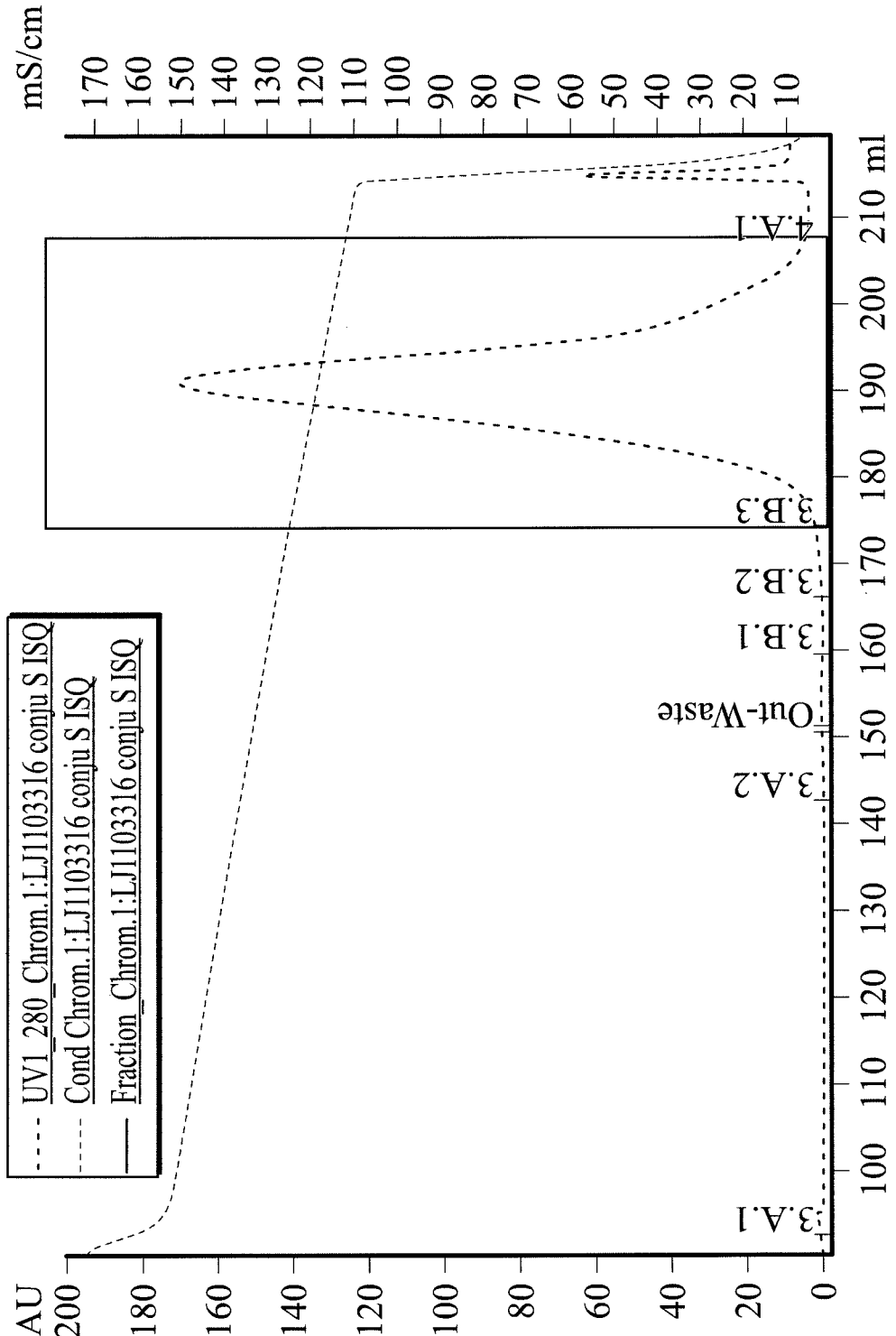

UV1_280_Chrom.1:LJ1103316 conju S ISQ
Cond Chrom.1:LJ1103316 conju S ISQ
Fraction_Chrom.1:LJ1103316 conju S ISQ
mAU
mS/cm
ml
3.A.1
3.A.2
Out-Waste
3.B.1
3.B.2
3.B.3
4.A.1

FIG. 9C

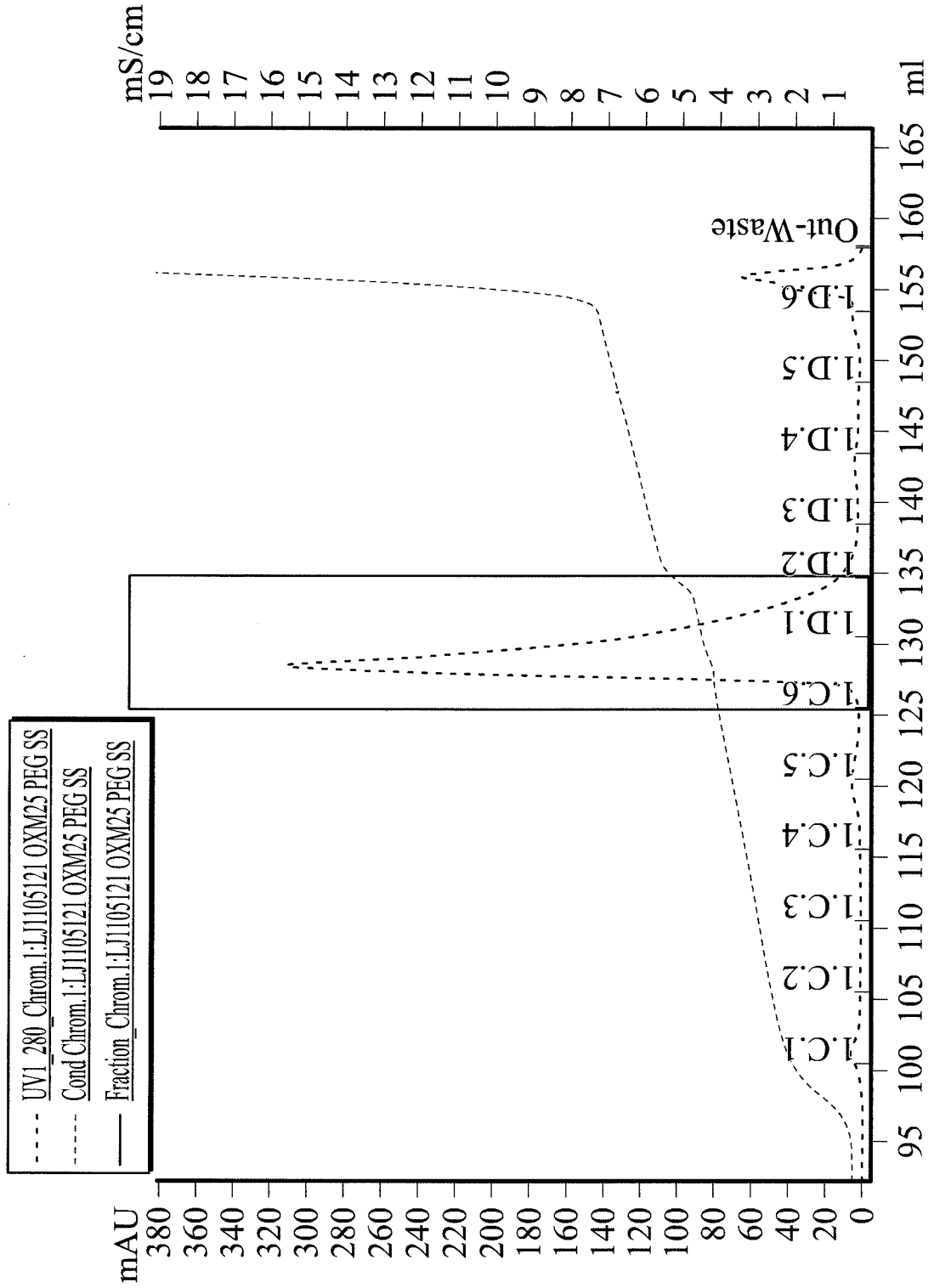

UV1_280_Chrom.1:LJ1105121 OXM25 PEG SS
Cond Chrom.1:LJ1105121 OXM25 PEG SS
Fraction_Chrom.1:LJ1105121 OXM25 PEG SS
mAU
mS/cm
ml
1.C.1
1.C.2
1.C.3
1.C.4
1.C.5
1.C.6
1.D.1
1.D.2
1.D.3
1.D.4
1.D.5
1.D.6
Out-Waste

FIG. 10A

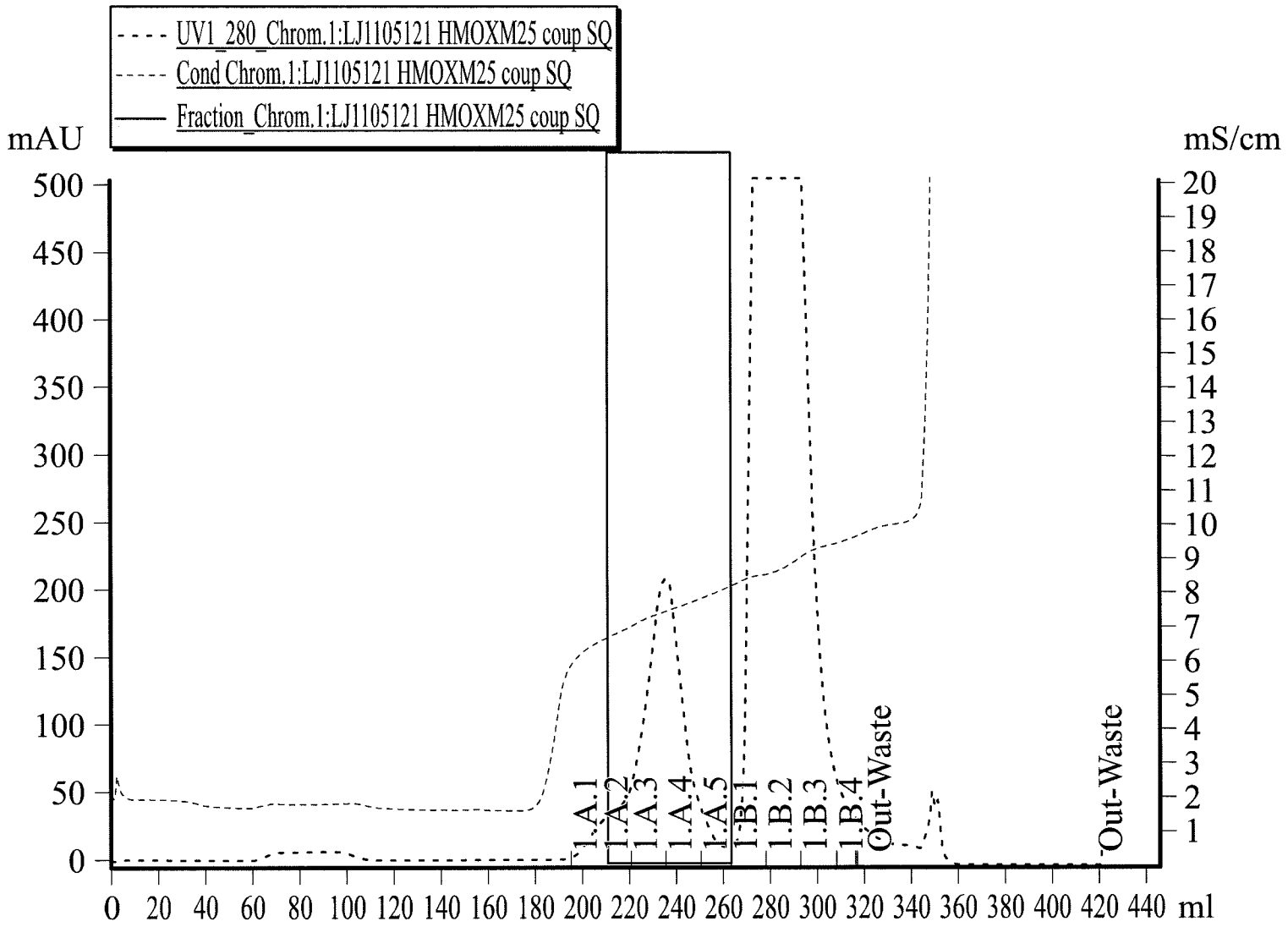

UV1_280_Chrom.1:LJ1105121 HMOXM25 coup SQ
Cond Chrom.1:LJ1105121 HMOXM25 coup SQ
Fraction_Chrom.1:LJ1105121 HMOXM25 coup SQ
mAU
mS/cm
500
450
400
350
300
250
200
150
100
50
0
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420 440 ml
1.A.1
1.A.2
1.A.3
1.A.4
1.A.5
1.B.1
1.B.2
1.B.3
1.B.4
Out-Waste
Out-Waste

FIG. 10B

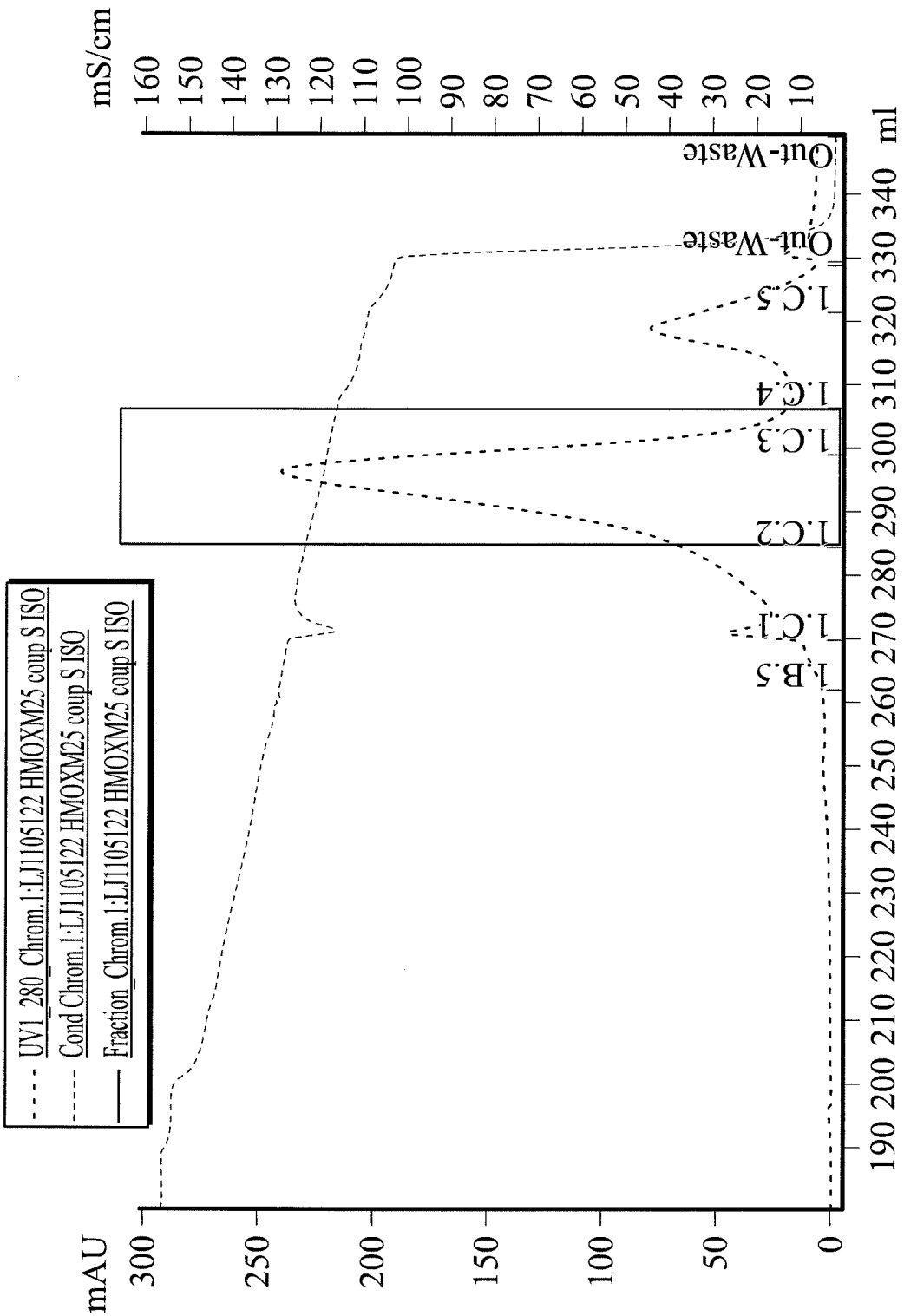

UV1_280_Chrom.1:LJ1105122 HMOXM25 coup S ISO
Cond Chrom.1:LJ1105122 HMOXM25 coup S ISO
Fraction_Chrom.1:LJ1105122 HMOXM25 coup S ISO
mAU
300
250
200
150
100
50
0
mS/cm
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 ml
1.B.5
1.C.1
1.C.2
1.C.3
1.C.4
1.C.5
Out-Waste
Out-Waste
Out-Waste

FIG. 10C

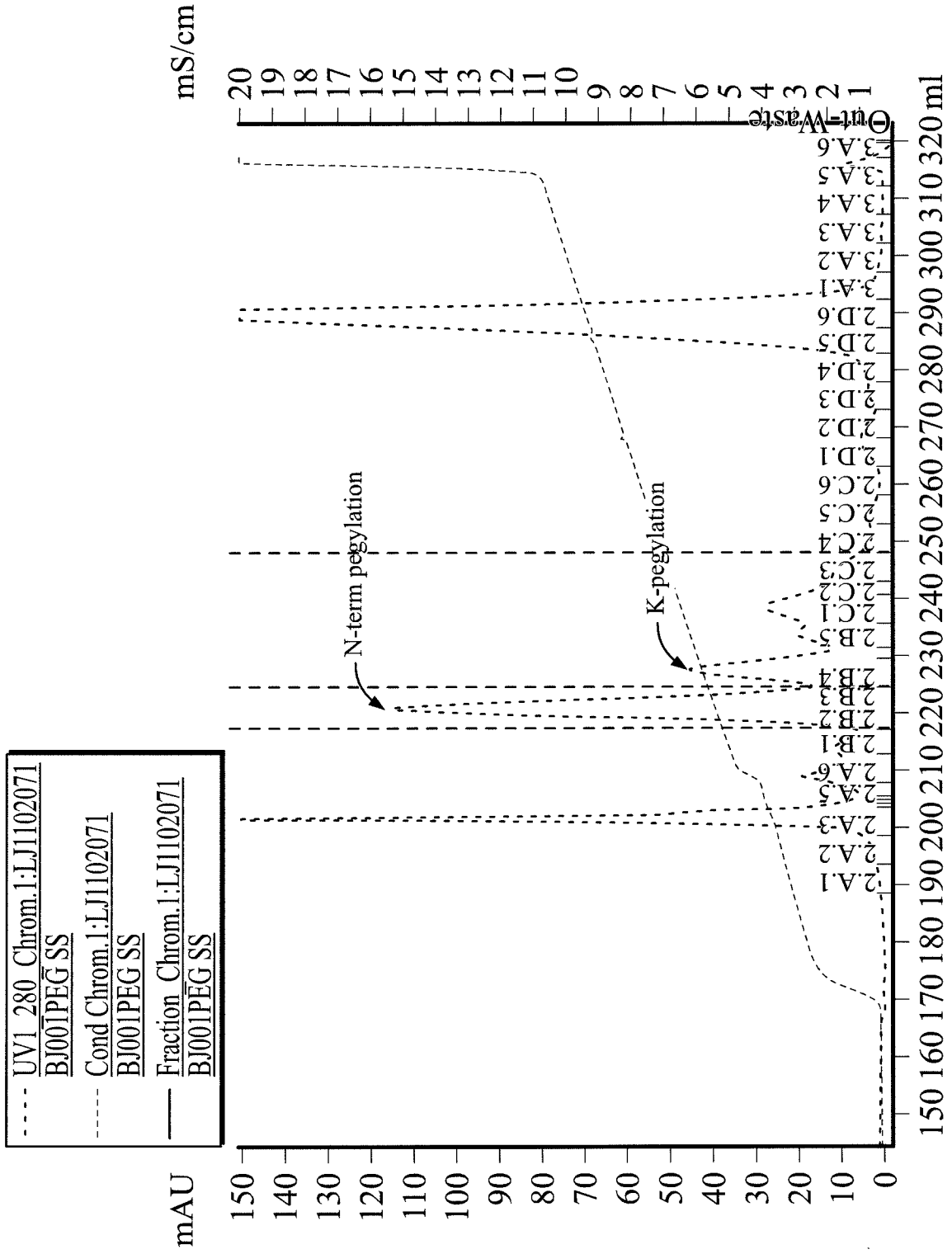

UV1_280_Chrom.1:LJ1102071
BJ001PEG SS
Cond Chrom.1:LJ1102071
BJ001PEG SS
Fraction_Chrom.1:LJ1102071
BJ001PEG SS
mAU
mS/cm
ml
Out-Waste
N-term pegylation
K-pegylation

FIG. 11A

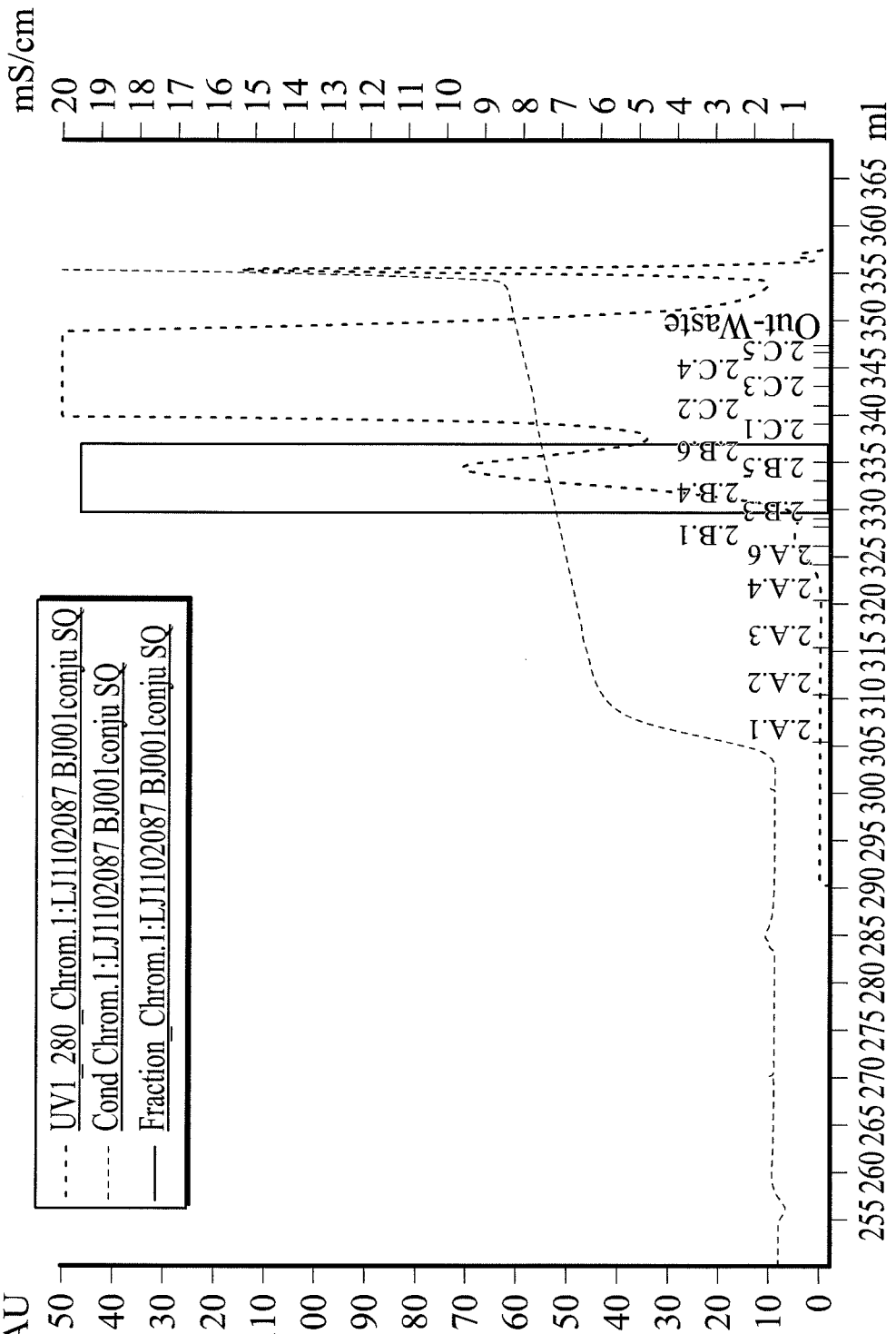

mAU
mS/cm
ml
UV1_280_Chrom.1:LJ1102087 BJ001conju SQ
Cond Chrom.1:LJ1102087 BJ001conju SQ
Fraction_Chrom.1:LJ1102087 BJ001conju SQ
Out-Waste
2.B.1
2.A.6
2.A.4
2.A.3
2.A.2
2.A.1
2.C.5
2.C.4
2.C.3
2.C.2
2.C.1
2.B.6
2.B.5
2.B.4
2.B.3

FIG. 11B

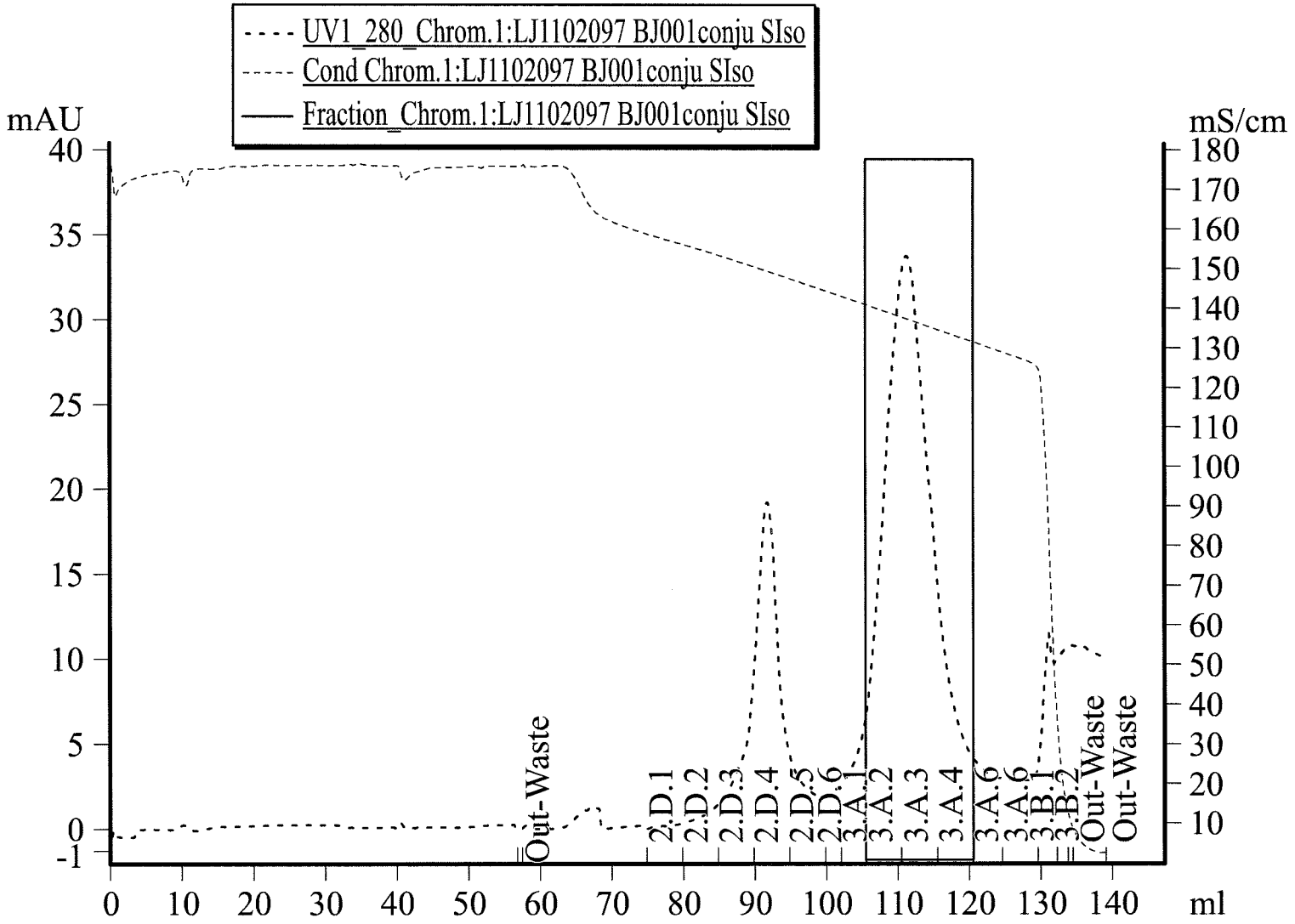

UV1_280_Chrom.1:LJ1102097 BJ001conju SIso
Cond Chrom.1:LJ1102097 BJ001conju SIso
Fraction_Chrom.1:LJ1102097 BJ001conju SIso
mAU
mS/cm
ml
Out-Waste
2.D.1
2.D.2
2.D.3
2.D.4
2.D.5
2.D.6
3.A.1
3.A.2
3.A.3
3.A.4
3.A.6
3.A.6
3.B.1
3.B.2
Out-Waste
Out-Waste

FIG. 11C

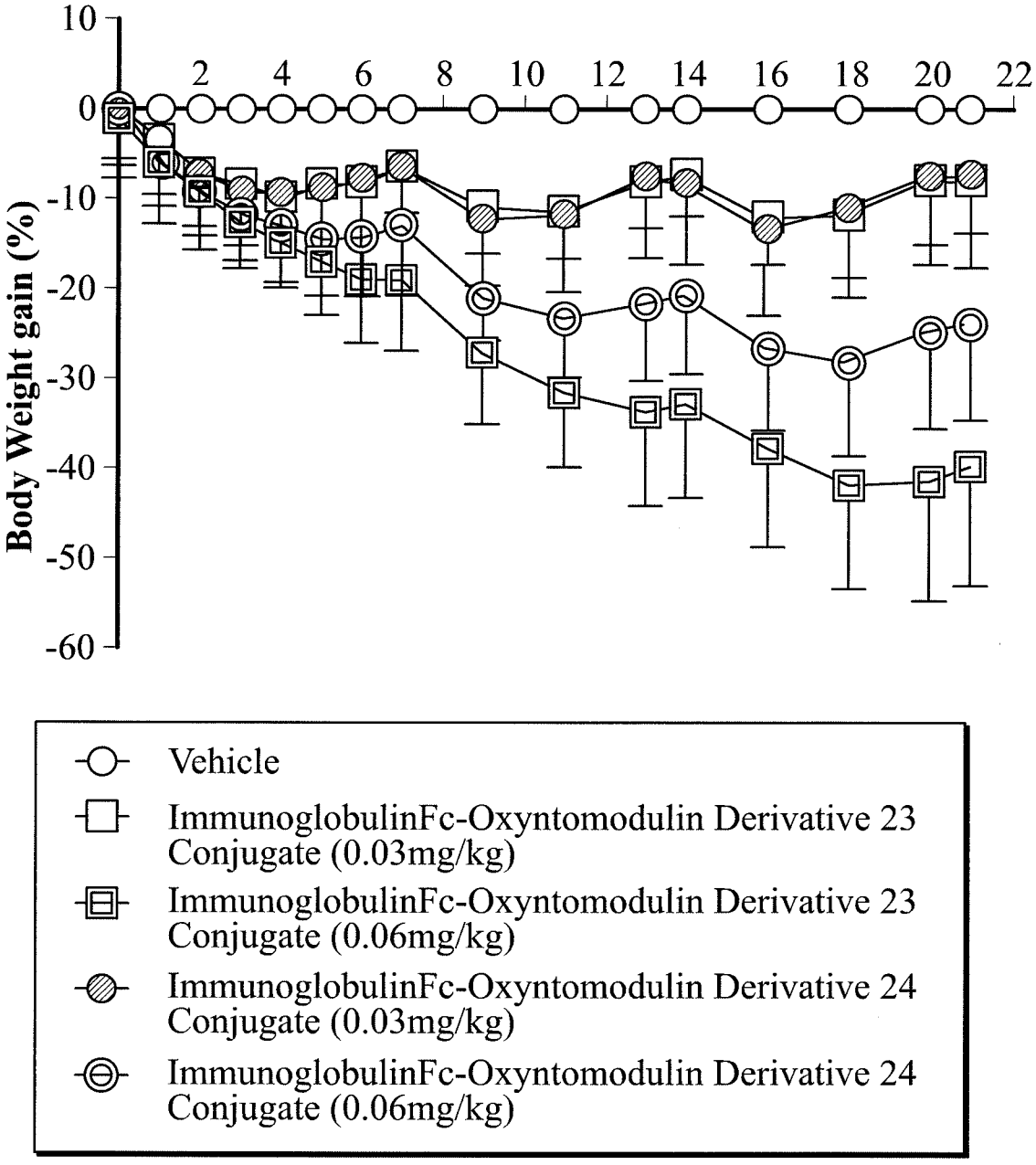

10
0
-10
-20
-30
-40
-50
-60
2
4
6
8
10
12
14
16
18
20
22
Body Weight gain (%)
Vehicle
ImmunoglobulinFc-Oxyntomodulin Derivative 23 Conjugate (0.03mg/kg)
ImmunoglobulinFc-Oxyntomodulin Derivative 23 Conjugate (0.06mg/kg)
ImmunoglobulinFc-Oxyntomodulin Derivative 24 Conjugate (0.03mg/kg)
ImmunoglobulinFc-Oxyntomodulin Derivative 24 Conjugate (0.06mg/kg)

FIG. 12

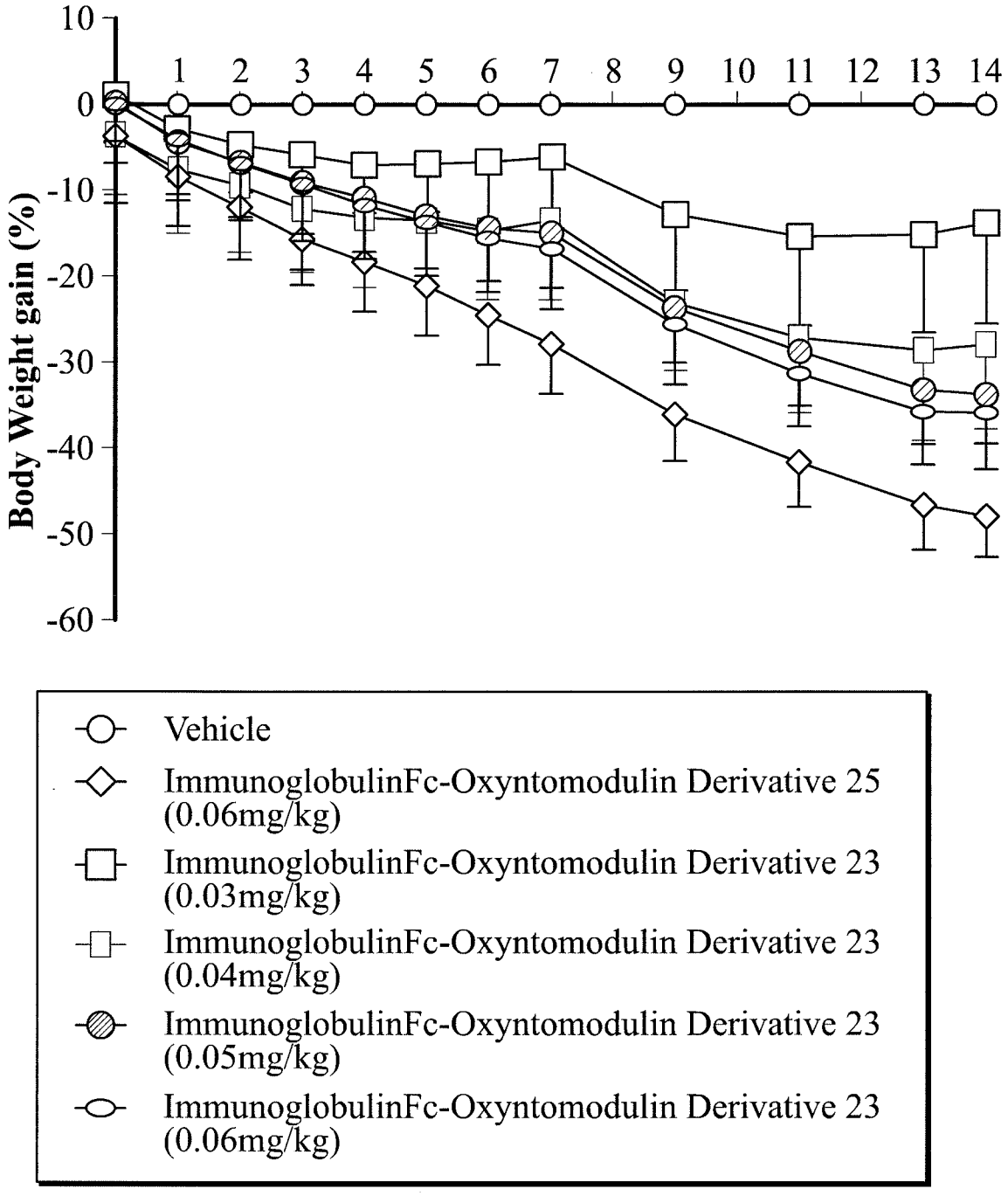

10
0
-10
-20
-30
-40
-50
-60
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Body Weight gain (%)
Vehicle
ImmunoglobulinFc-Oxyntomodulin Derivative 25 (0.06mg/kg)
ImmunoglobulinFc-Oxyntomodulin Derivative 23 (0.03mg/kg)
ImmunoglobulinFc-Oxyntomodulin Derivative 23 (0.04mg/kg)
ImmunoglobulinFc-Oxyntomodulin Derivative 23 (0.05mg/kg)
ImmunoglobulinFc-Oxyntomodulin Derivative 23 (0.06mg/kg)

FIG. 13