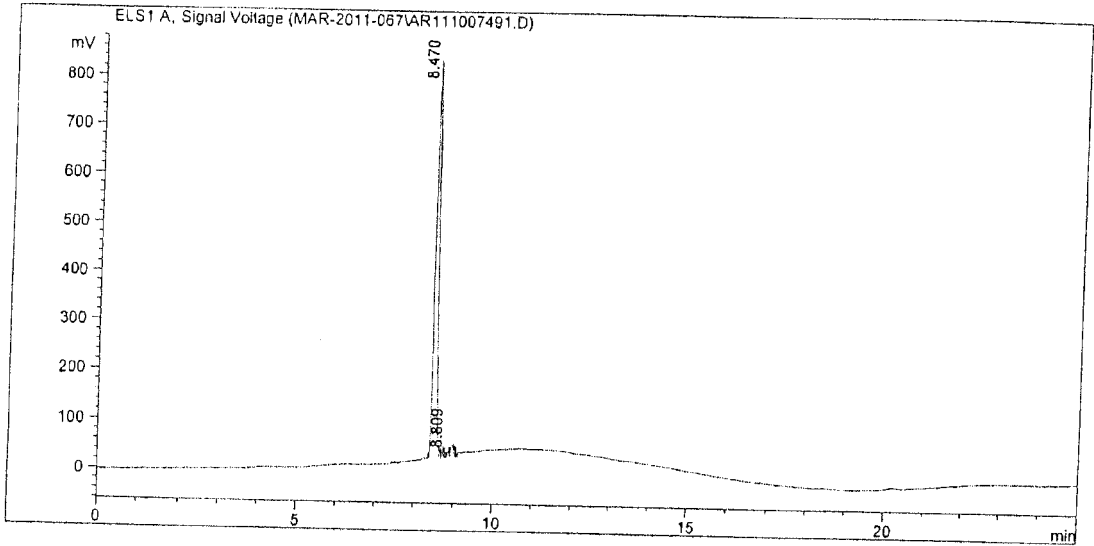


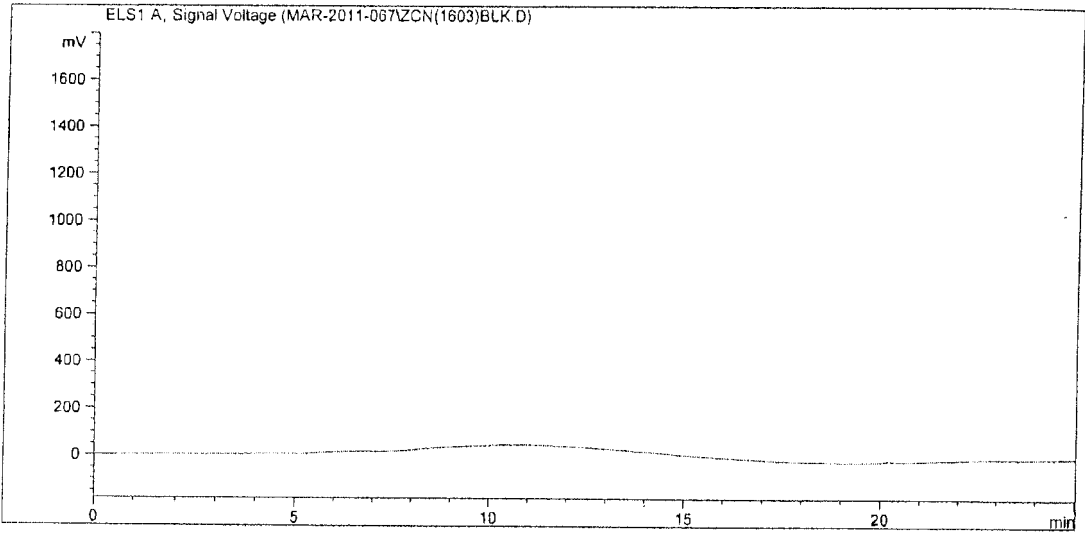
HPLC ISOMER 2

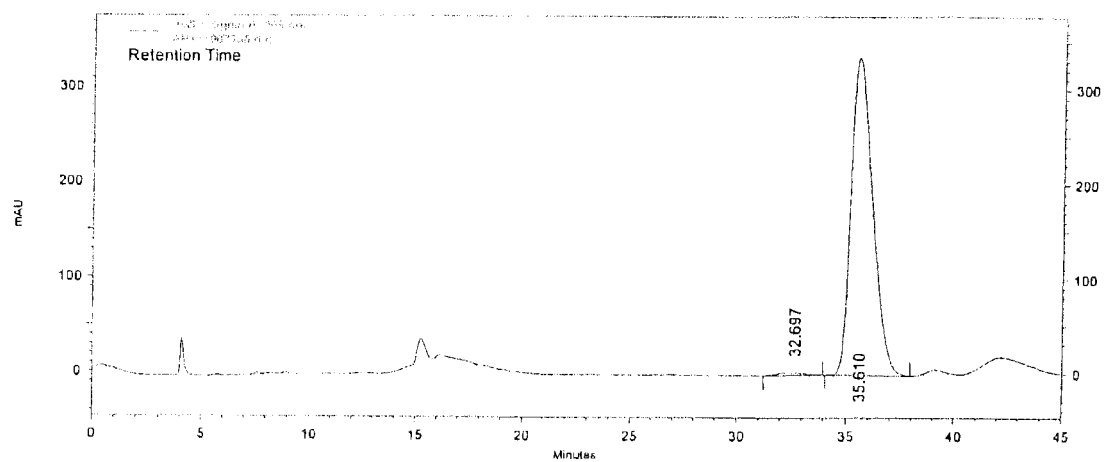
FIG. 1



HPLC BLANK

FIG. 2



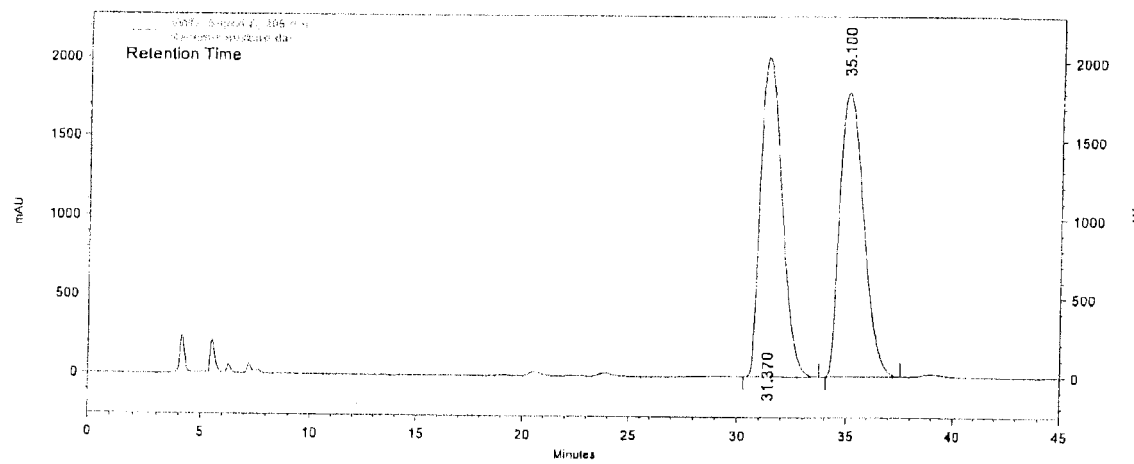


CHIRAL HPLC ISOMER 2

FIG. 3

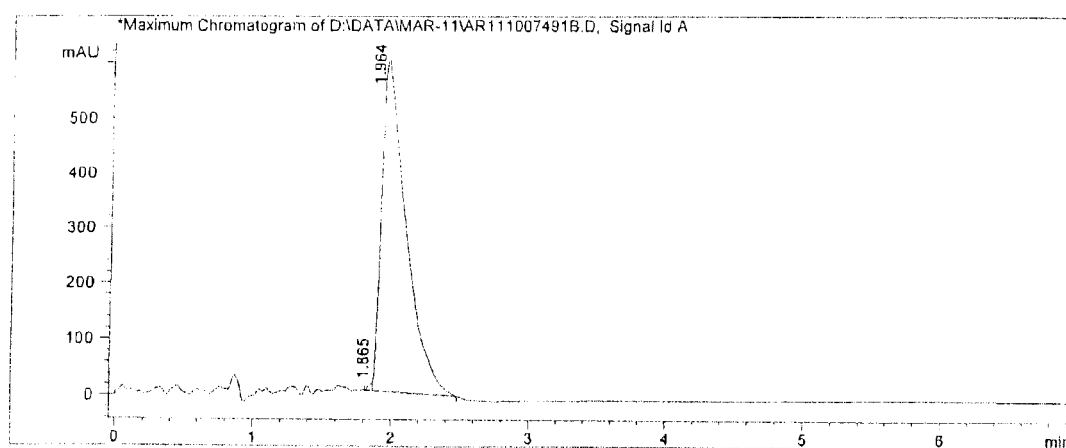
CHIRAL HPLC RACEMIC ISOMETHEPTENE

FIG. 4



LC OF ISOMER 2

FIG. 5



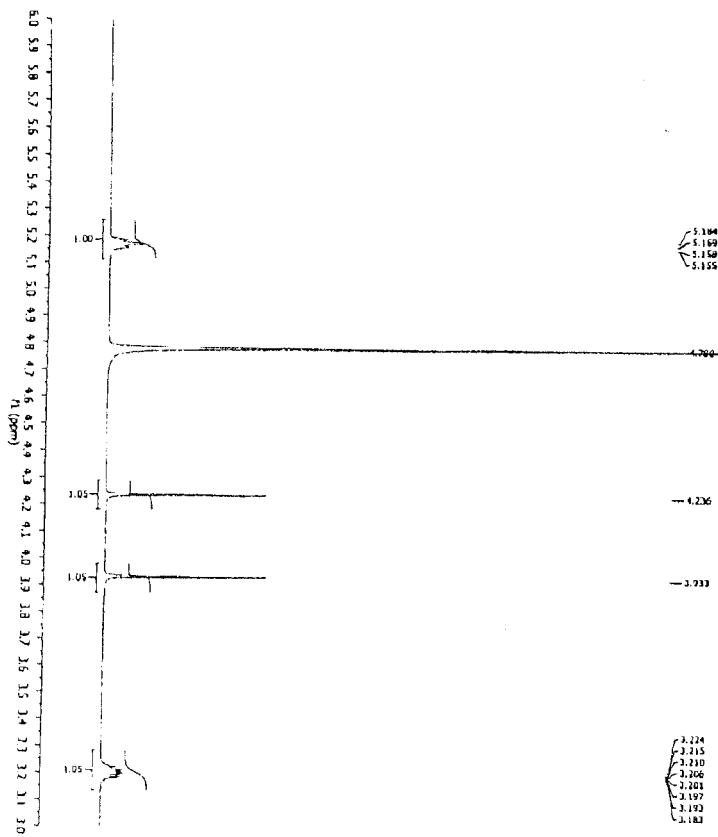
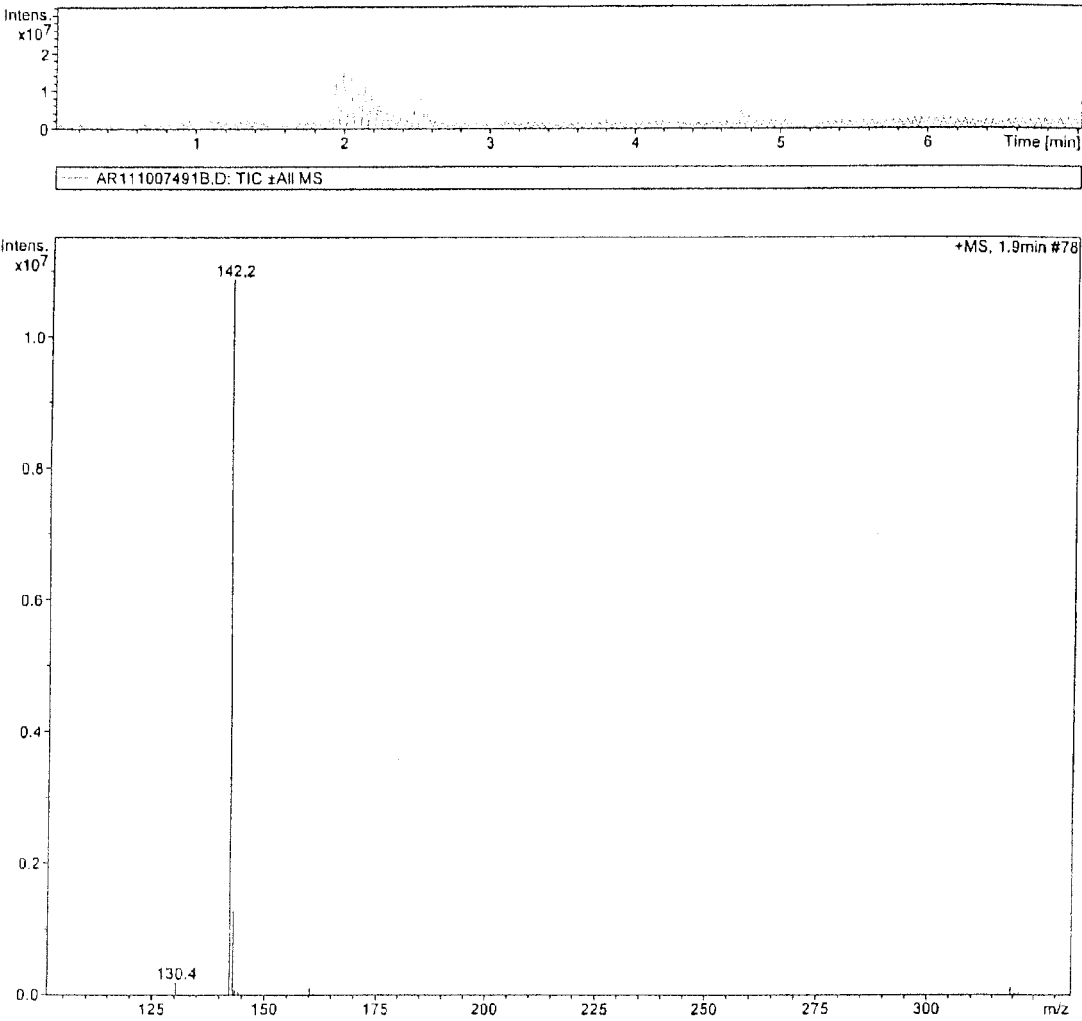


FIG. 6

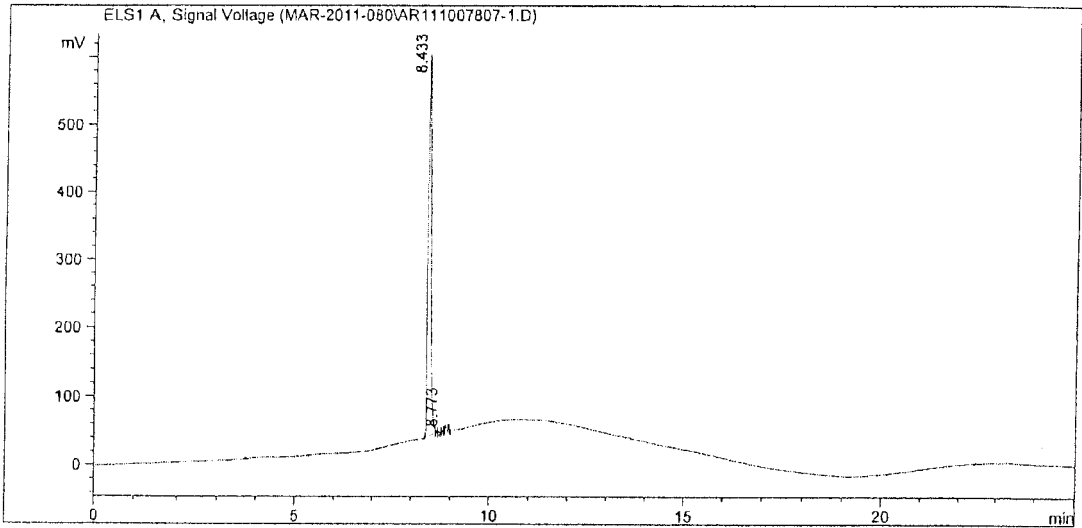
MASS SPECTRUM OF ISOMER 2

FIG. 7



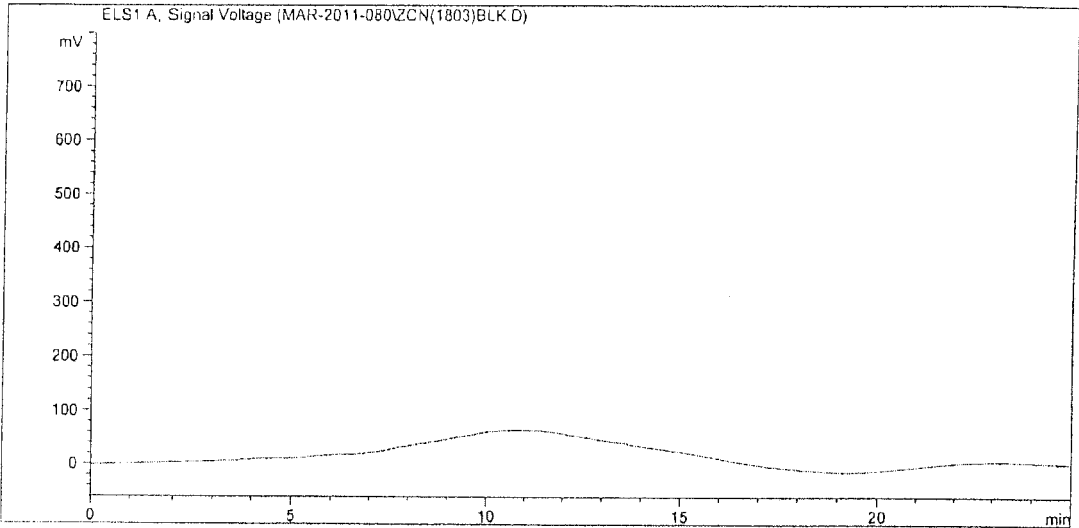
HPLC OF ISOMER 1

FIG. 8



HPLC BLANK ISOMER 1

FIG. 9



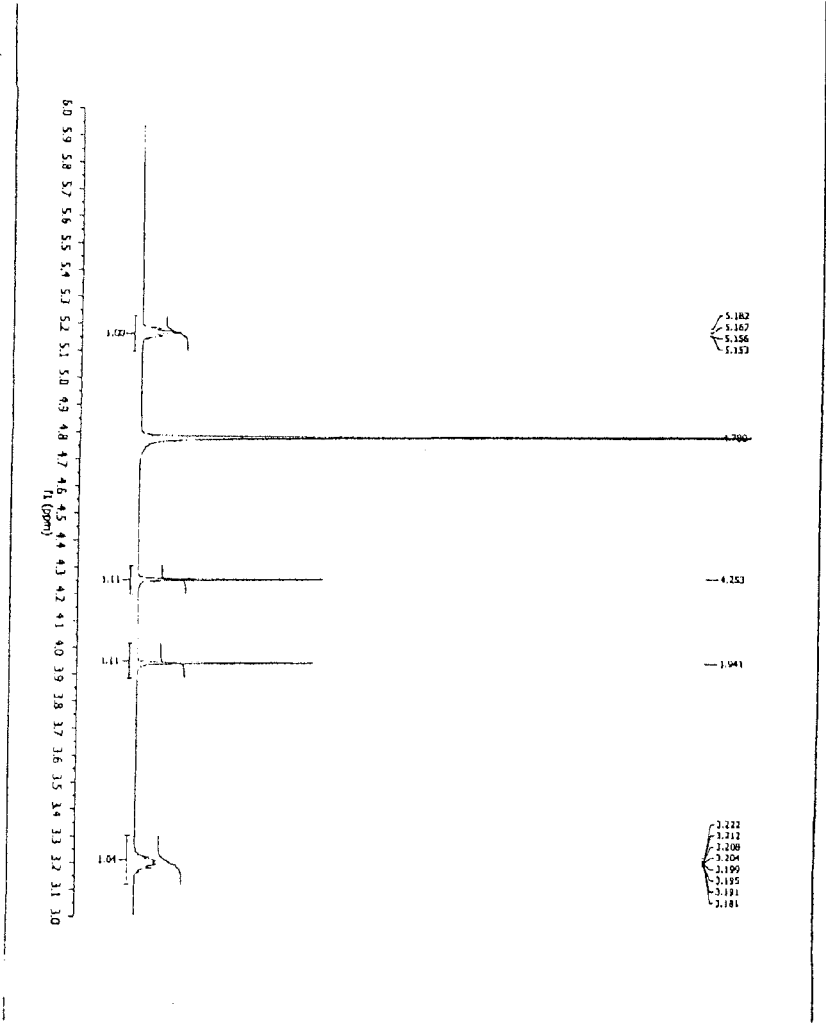
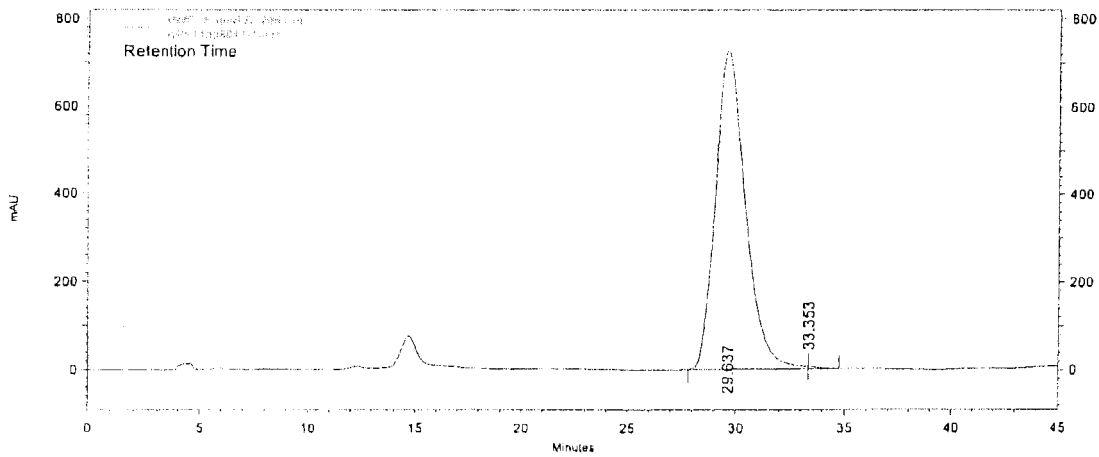


FIG. 10

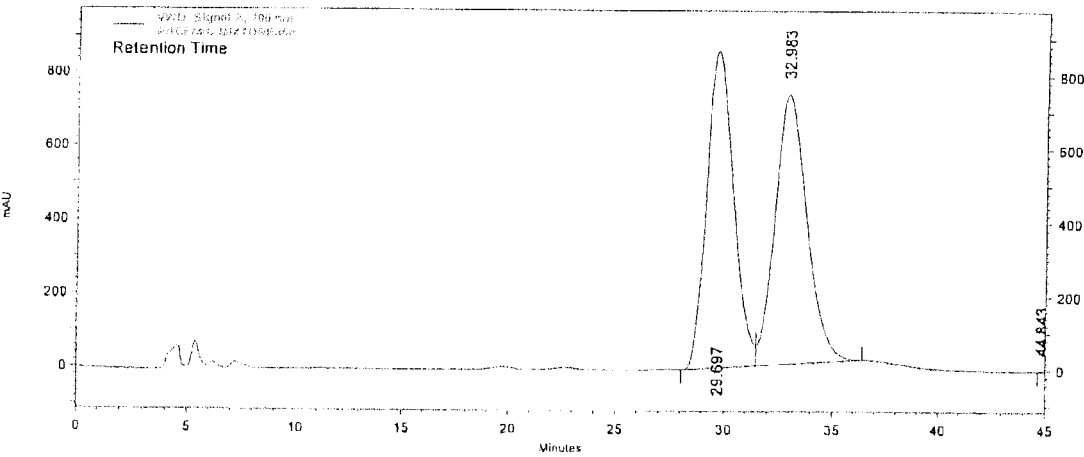
CHIRAL HPLC OF ISOMER 1

FIG. 11



CHIRAL HPLC OF RACEMIC ISOMETHEPTENE

FIG. 12



LC /MS OF ISOMER 1

FIG.13

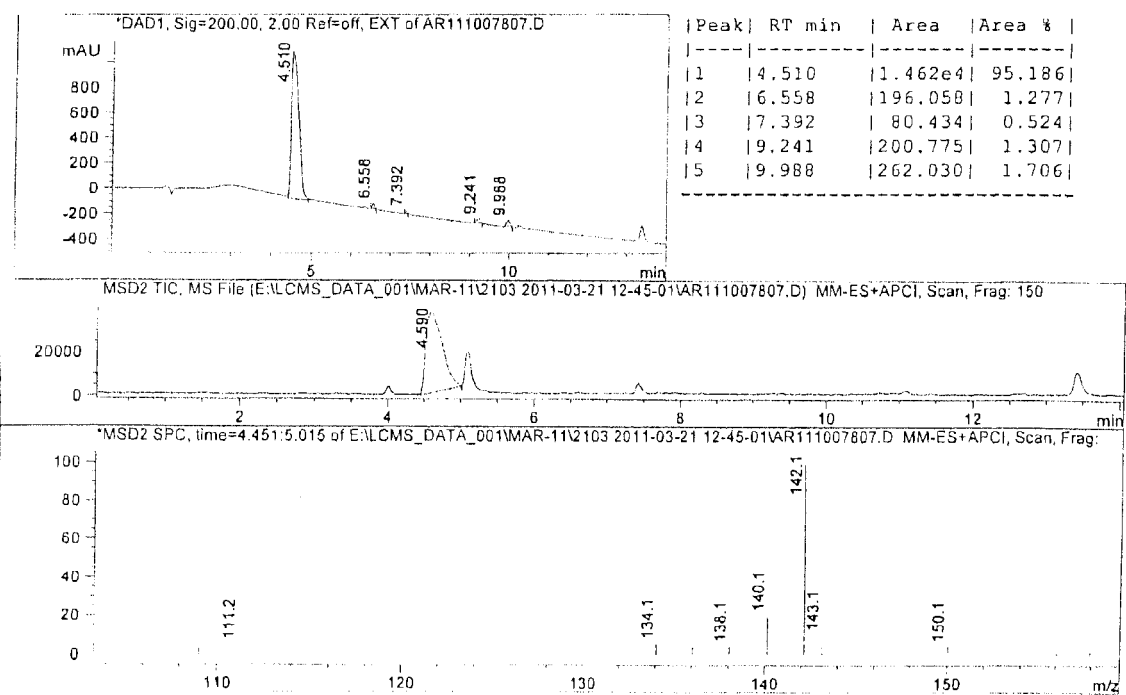


FIG. 14

^1H NMR of (R)-Isometheptene (R)-Mosher amide. There is no (S) peak at 4.84 ppm.

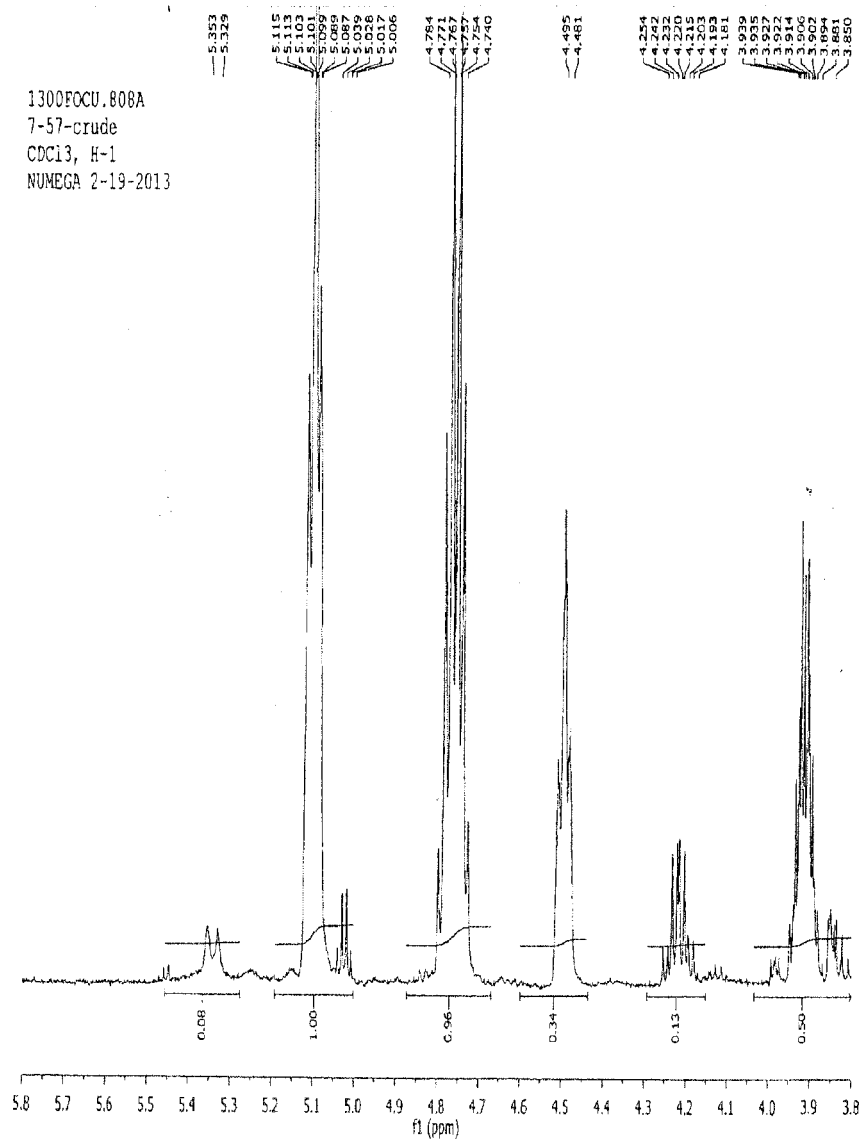


FIG. 15

. H¹ NMR mixture of (R)- and (S)-Isometheptene (R)-Mosher amide.

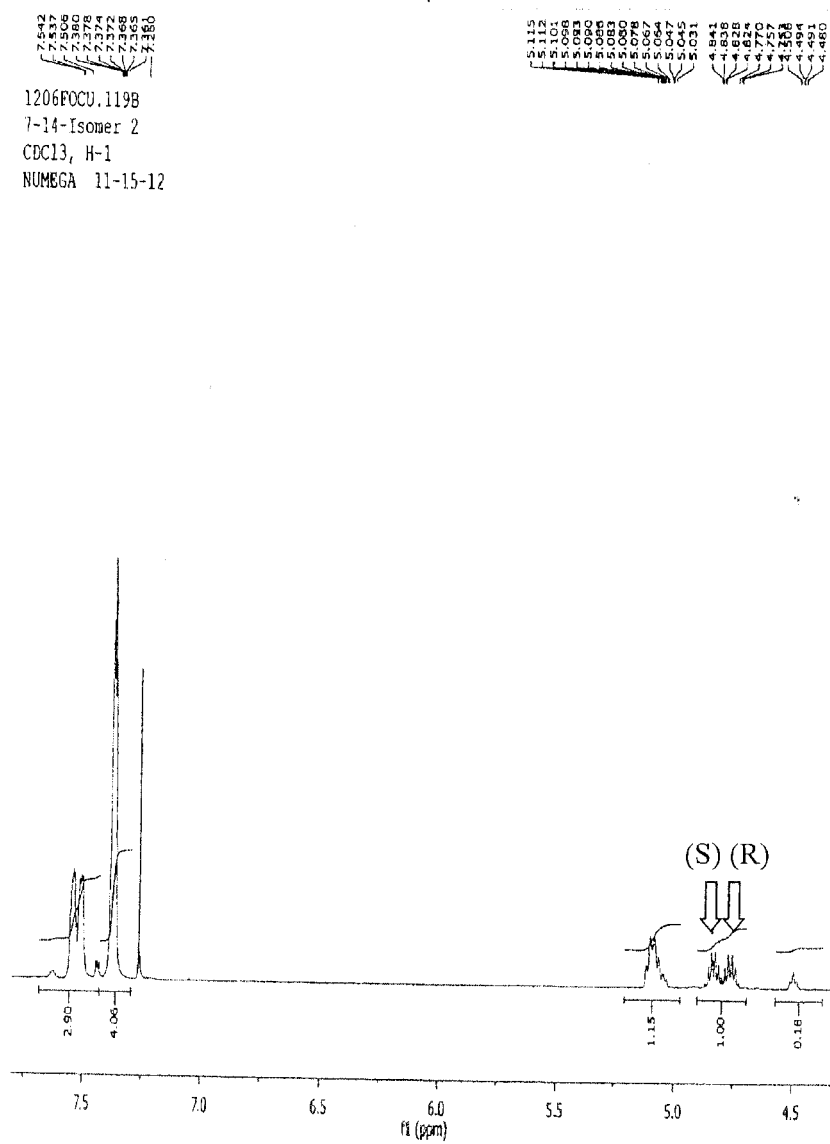


FIG. 16

R-isomethptene mucate crystal structure showing intermolecular hydrogen bonds

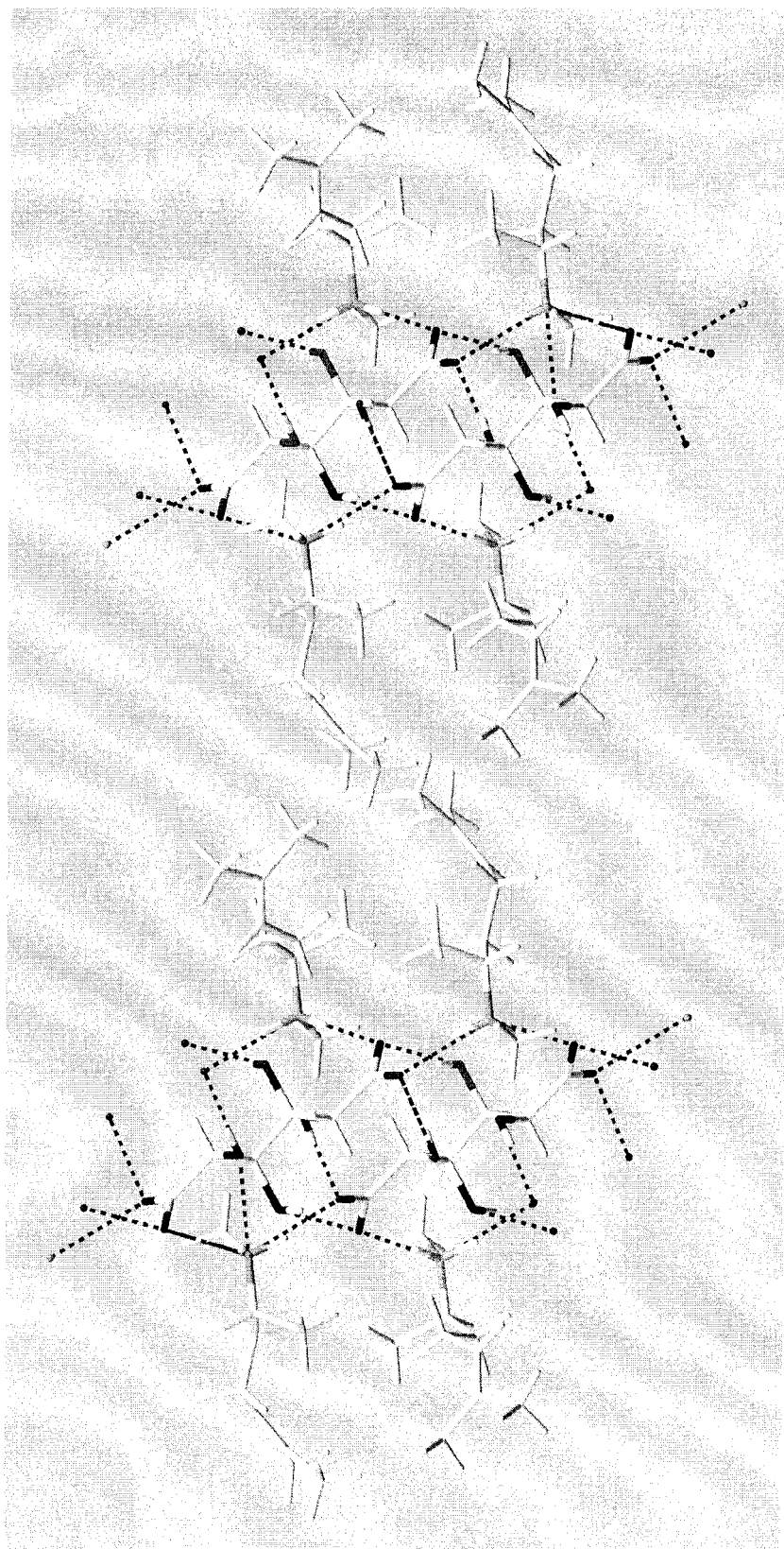
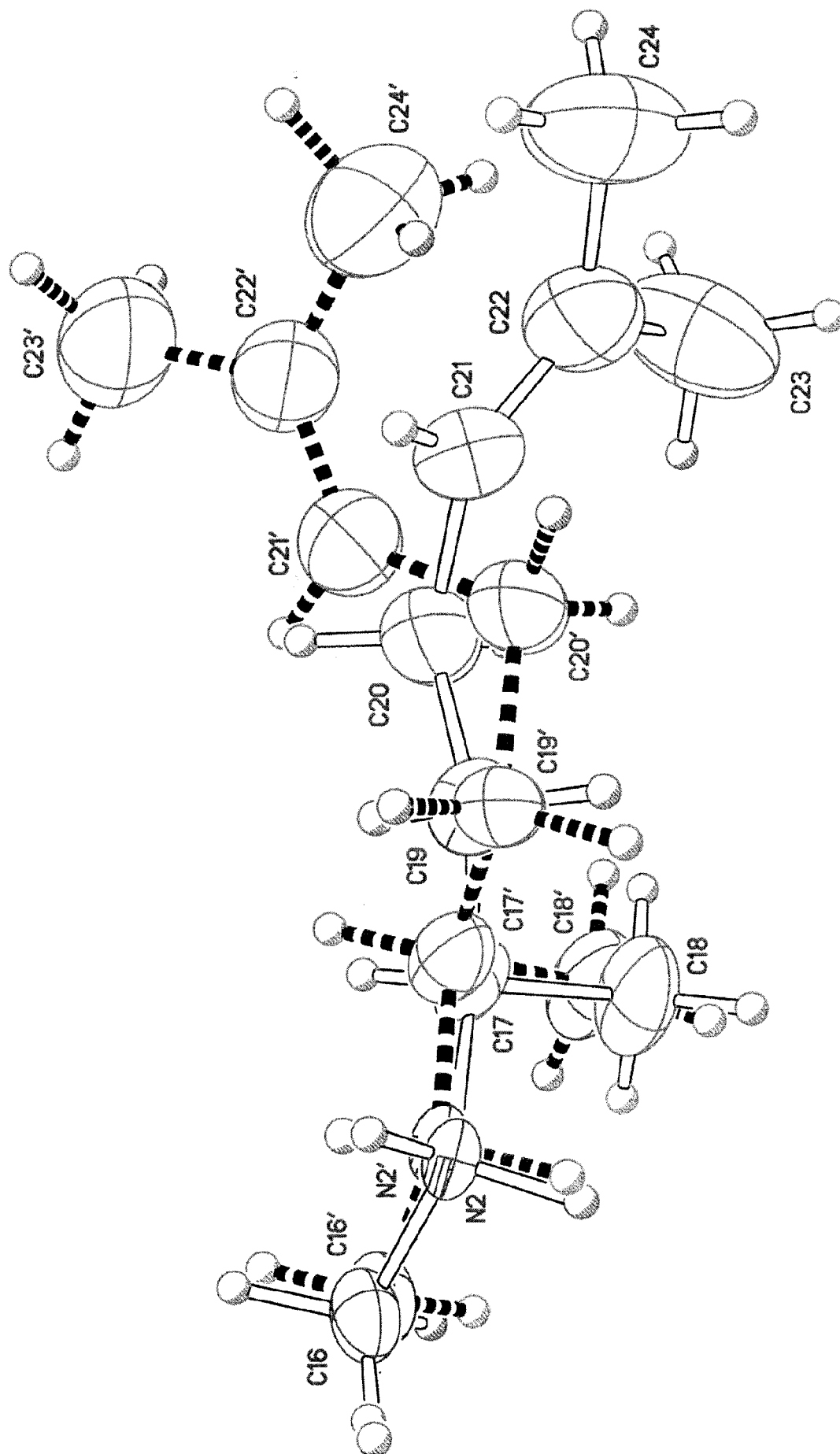


FIG. 17



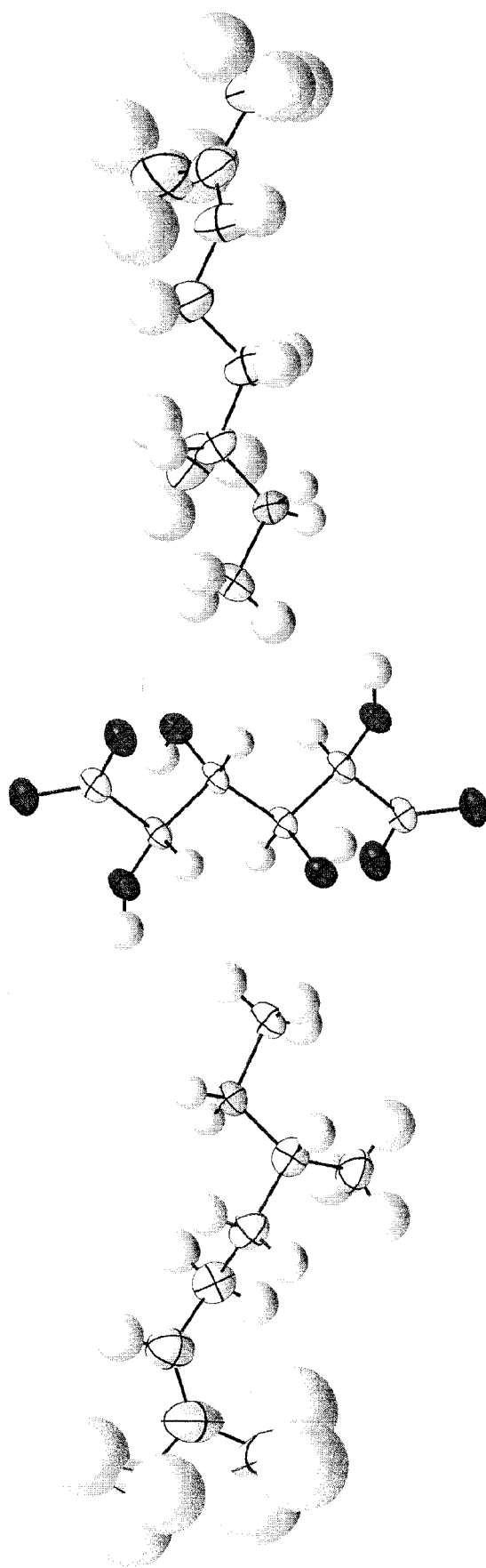


FIG. 18

FIG. 19

