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APPENDIX

a) Silica gel G/petroleum ether : ethyl acetate (8:1)

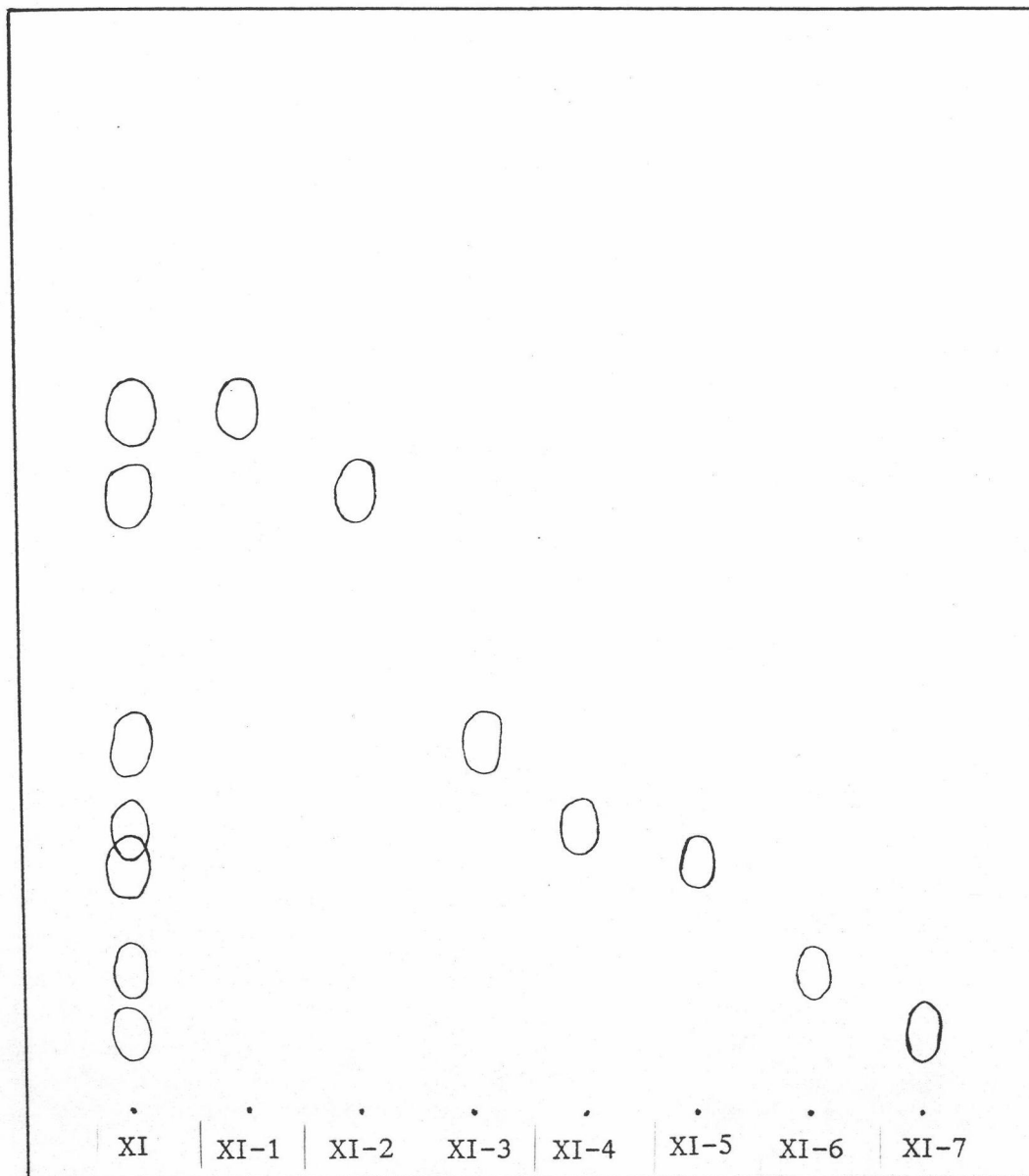


Figure 11

Thin layer chromatograms of isolated compounds from *Xyris indica* Linn.

b) Silica gel G/n-hexane : ethyl acetate (99:1)

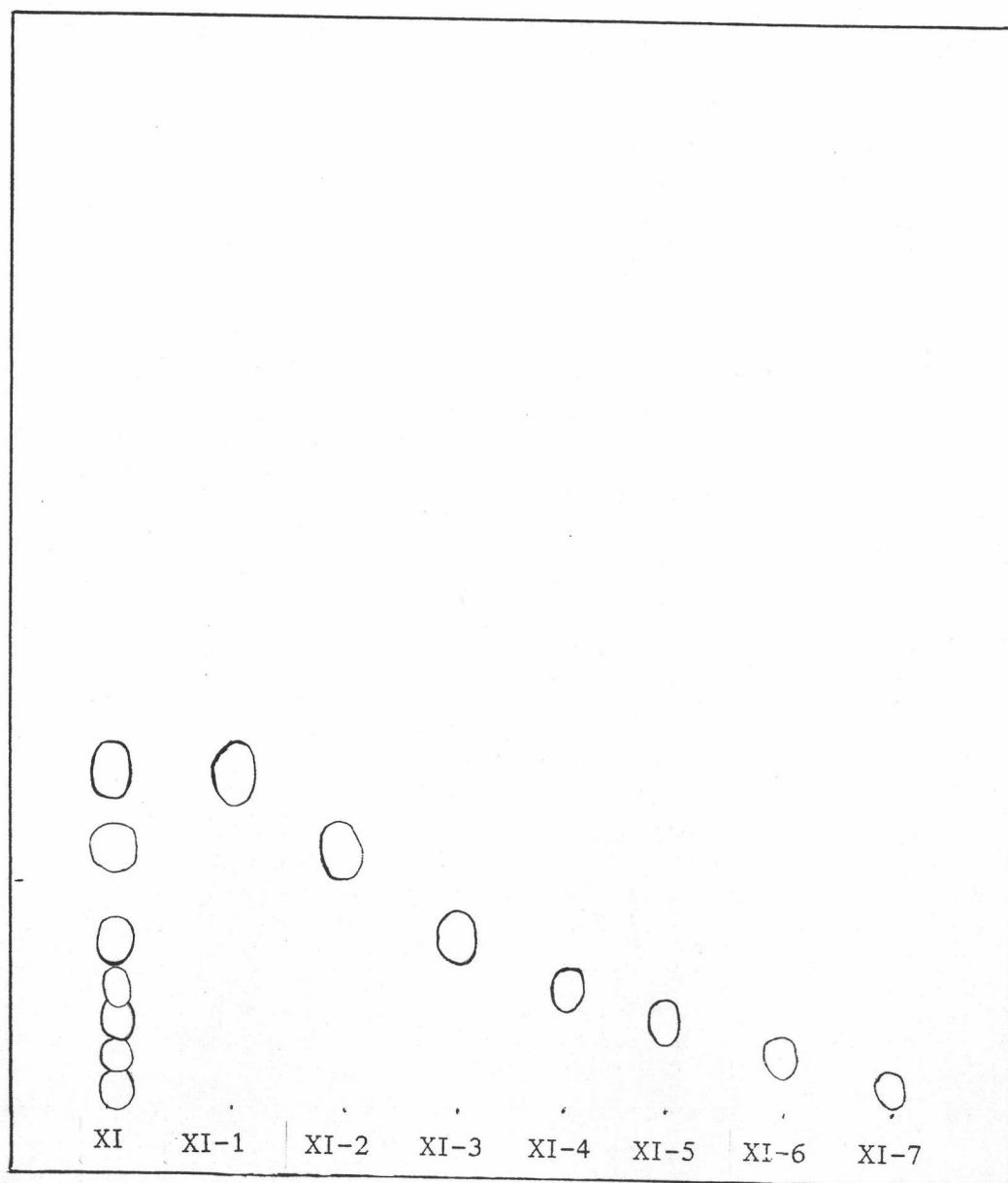


Figure 12

Thin layer chromatograms of isolated compounds from *Xyris indica* Linn.

c) Silica gel G/chloroform

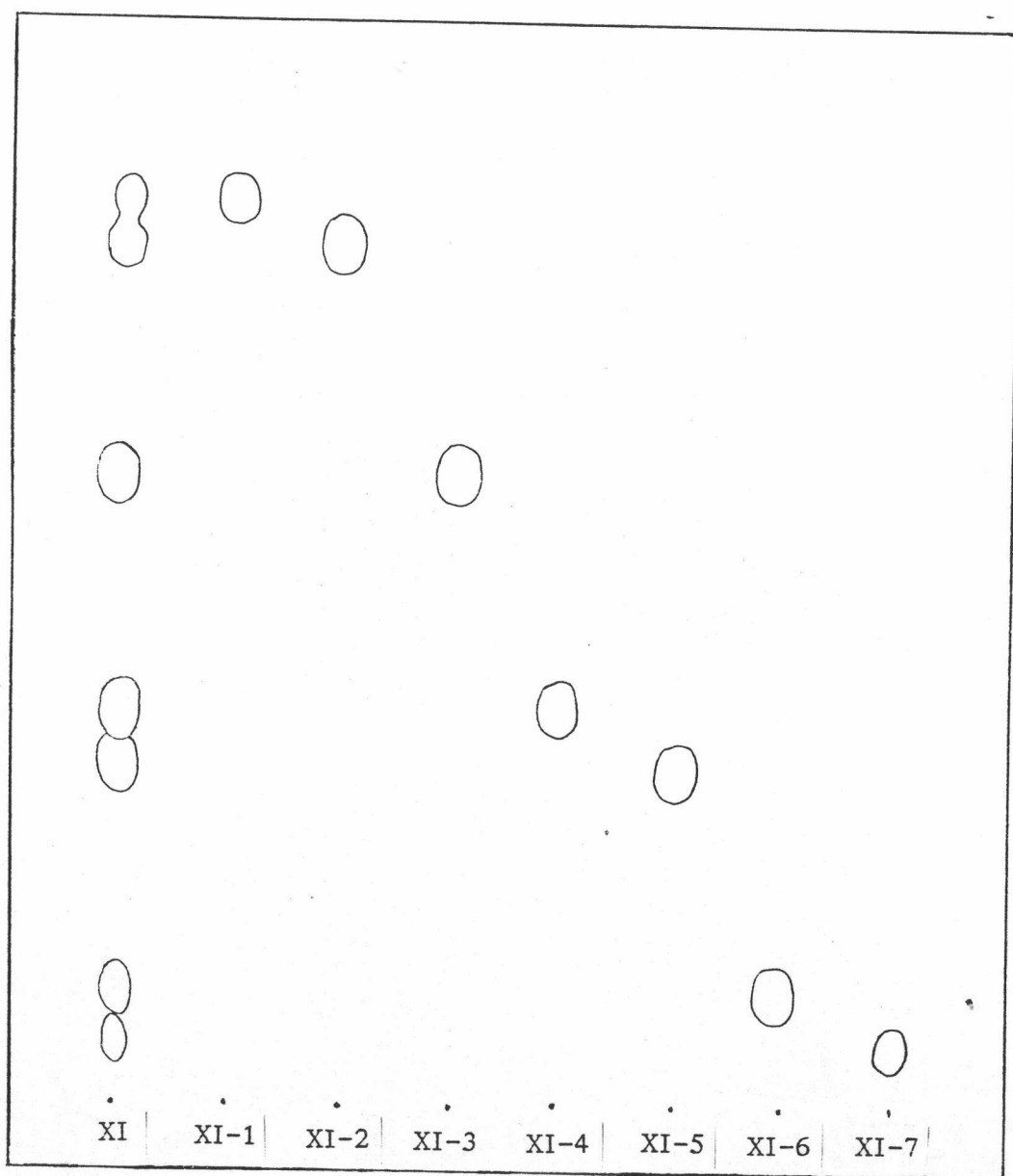


Figure 13

Thin layer chromatograms of isolated compounds from *Xyris indica* Linn.

d) Silica gel G/petroleum ether : ethyl acetate (5:1)

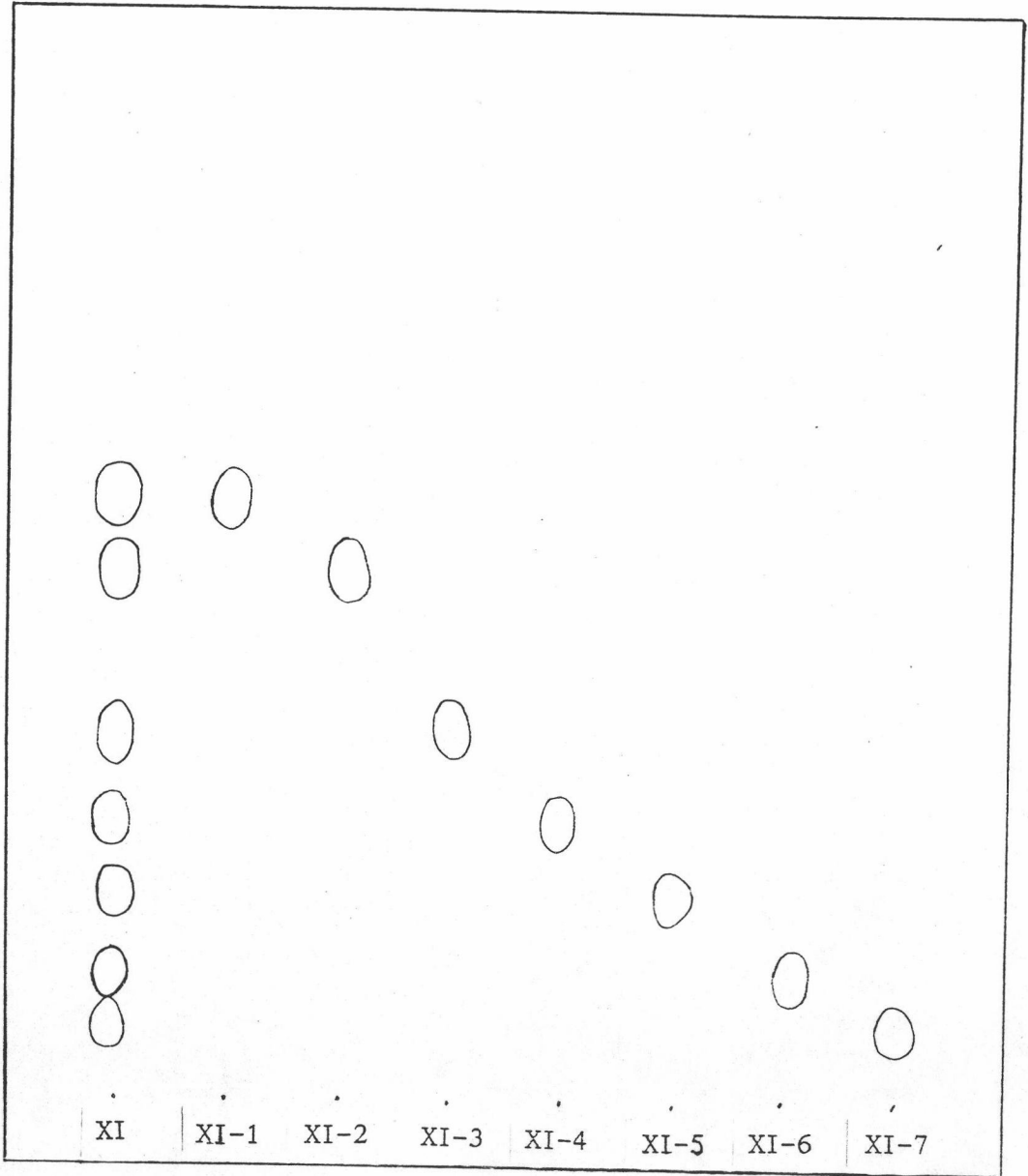


Figure 14

Thin layer chromatograms of isolated compounds from *Xyris indica* Linn.

e) Silica gel G/benzene : ethyl acetate (15:1)

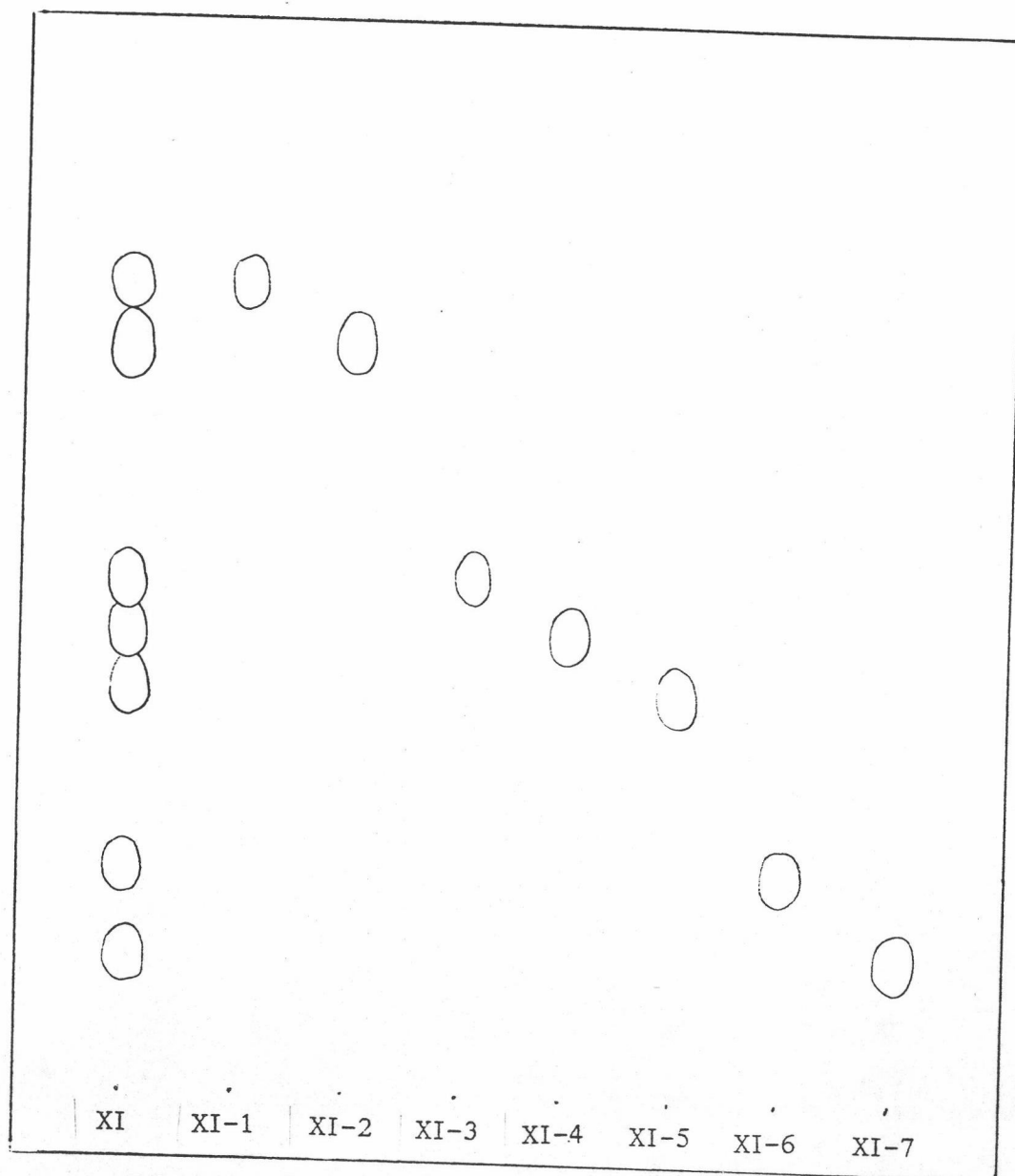


Figure 15

Thin layer chromatograms of isolated compounds from *Xyris indica* Linn.

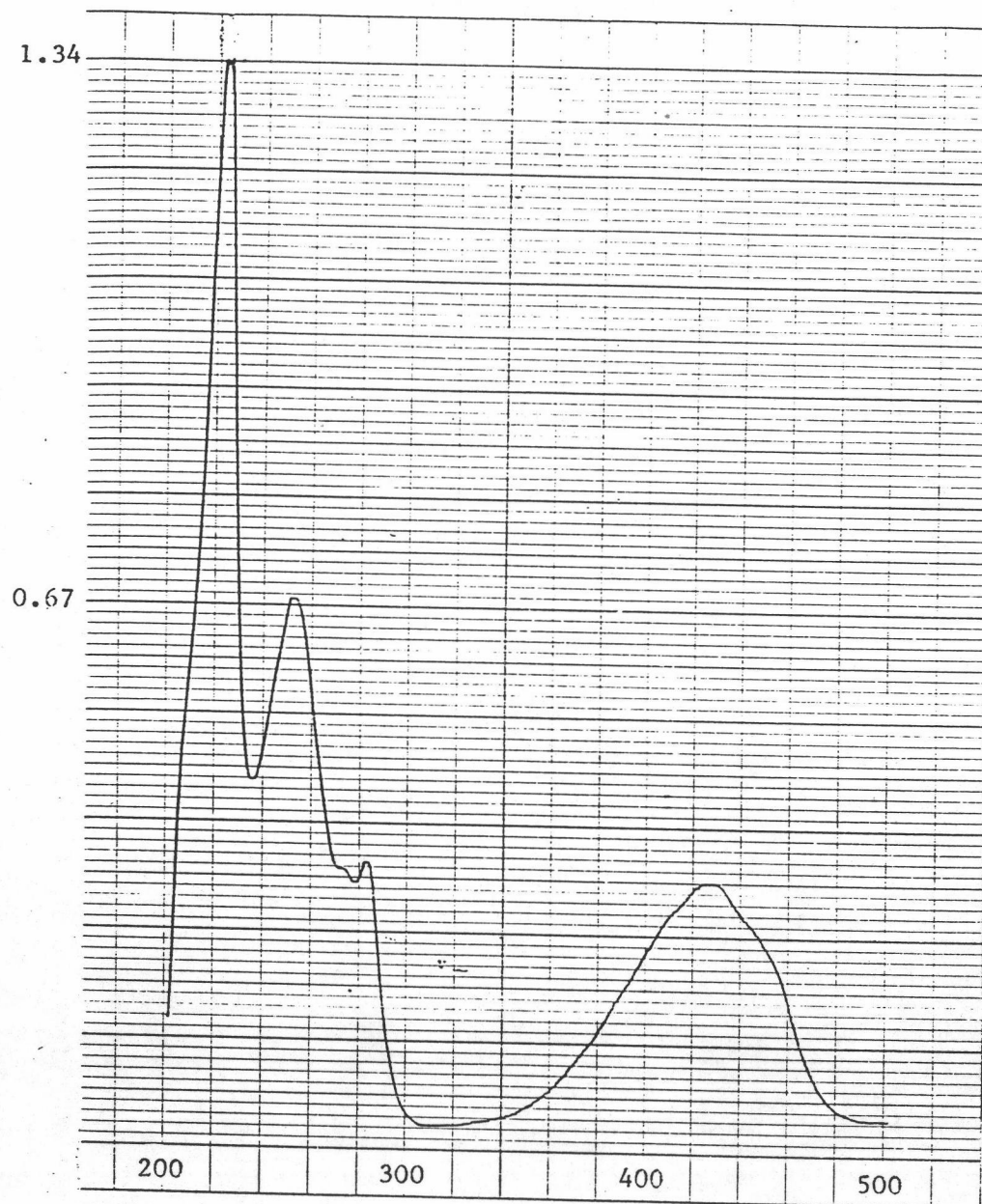
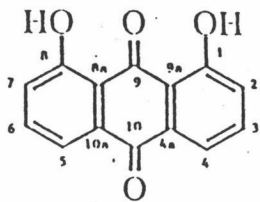


Figure 16 Ultraviolet absorption spectrum of XI-1

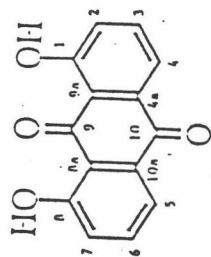
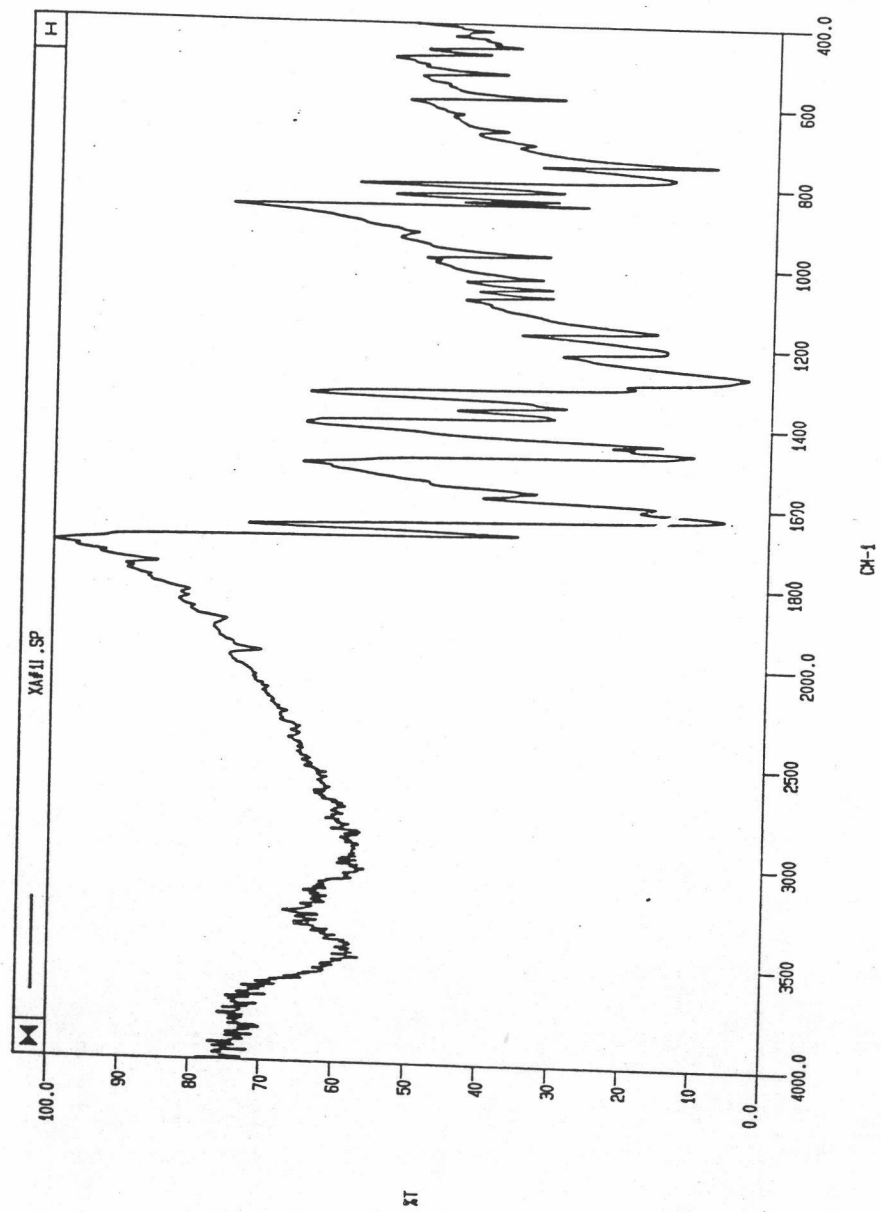
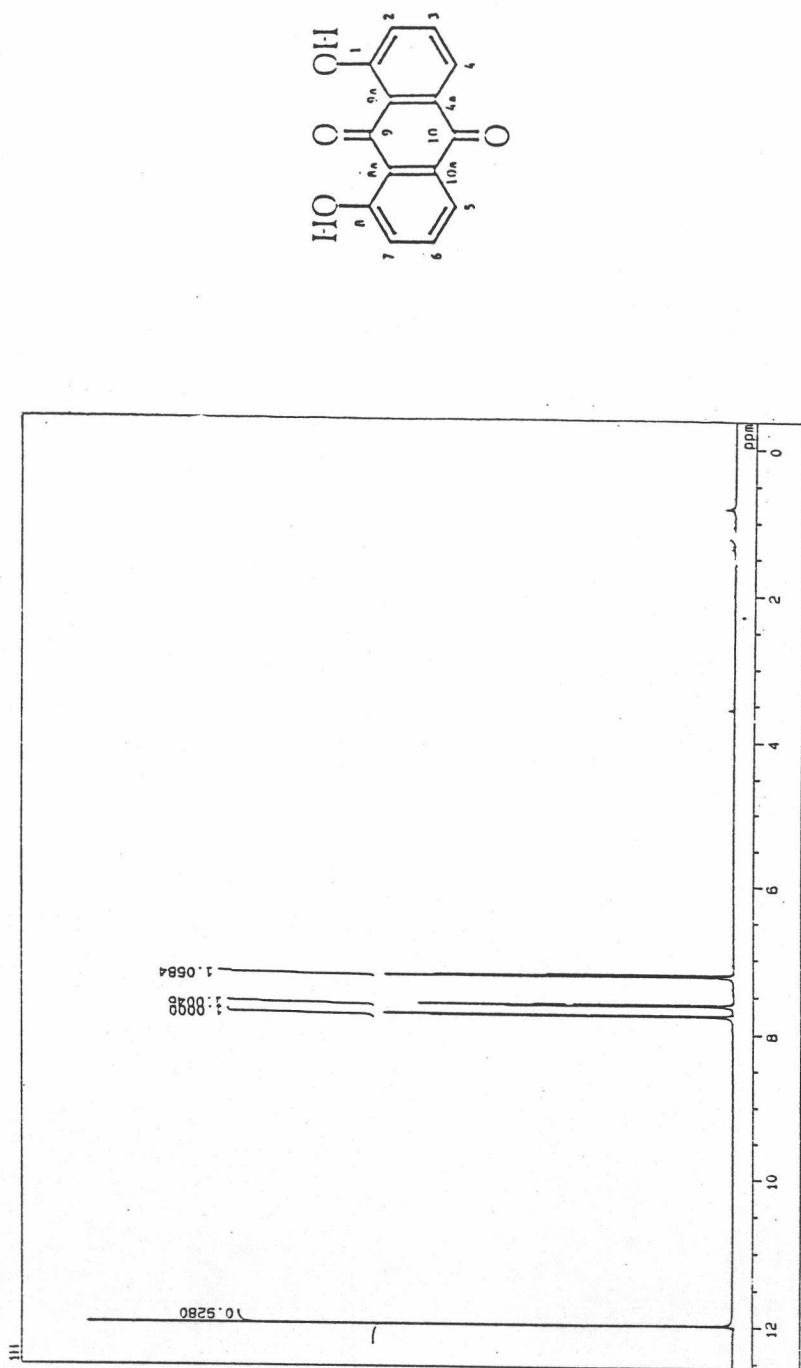
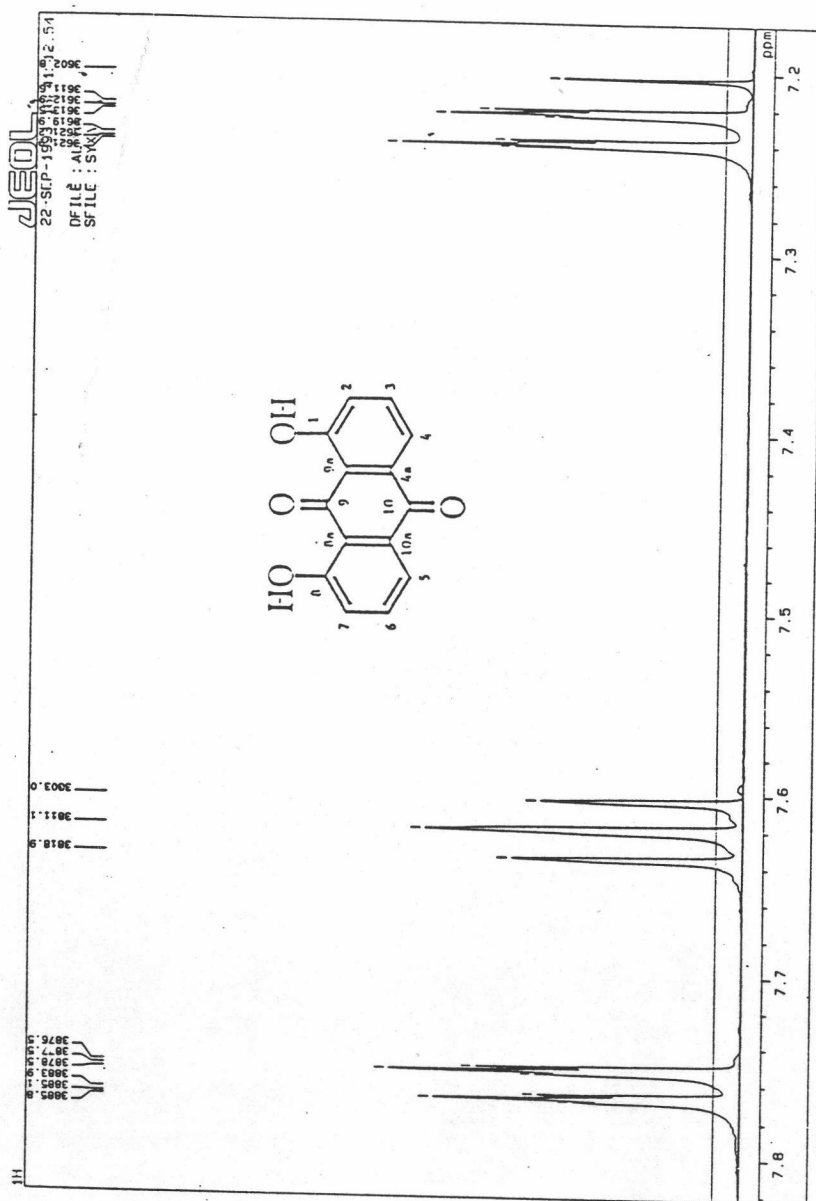
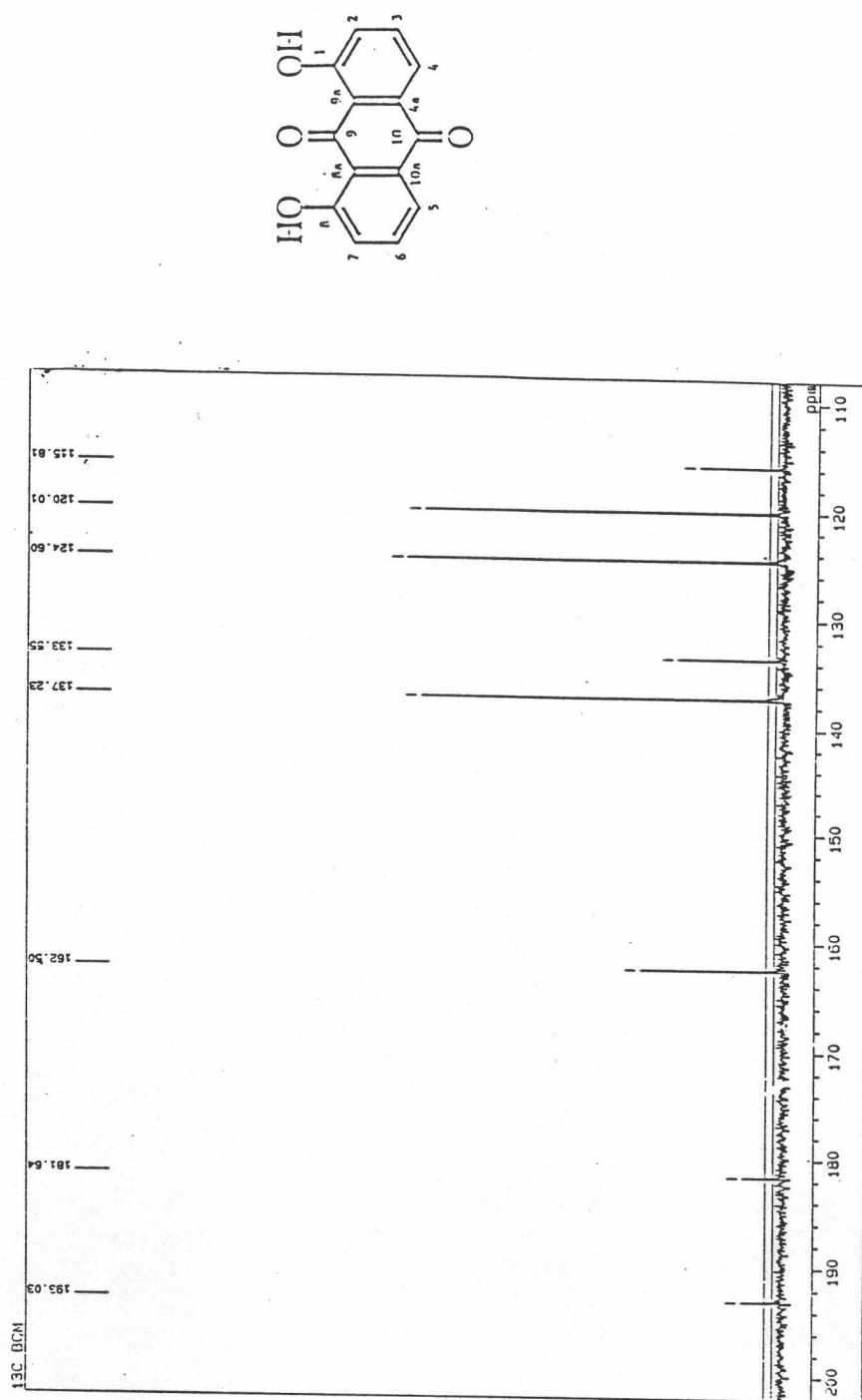


Figure 17 Infrared absorption spectrum of XI-1

Figure 18 $^1\text{H-NMR}$ spectrum of XI-1

Figure 19 Expansion of $^1\text{H-NMR}$ spectrum of XI-1

Figure 20 ^{13}C -NMR spectrum of XI-1

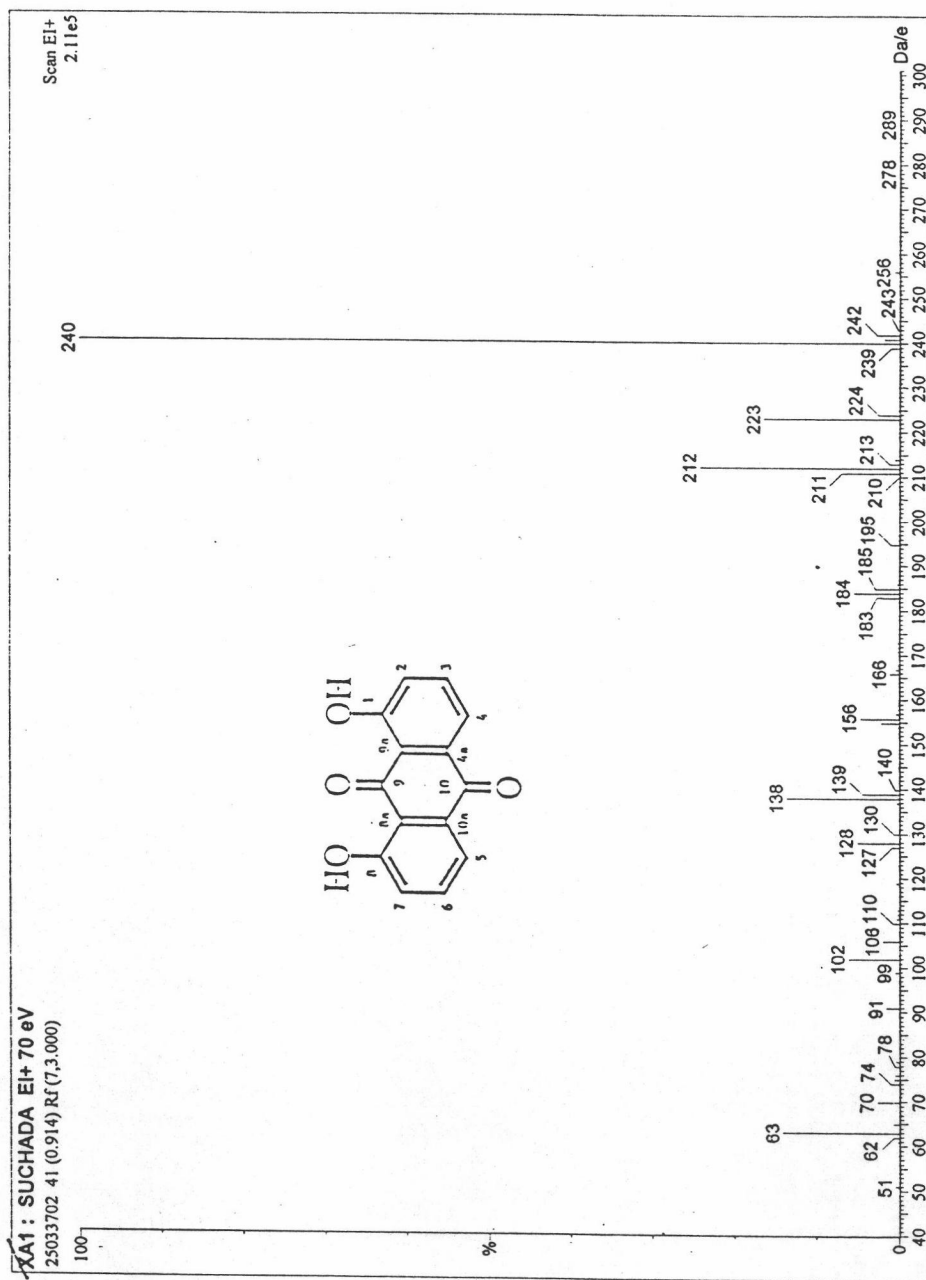


Figure 21 EI mass spectrum of XI-1

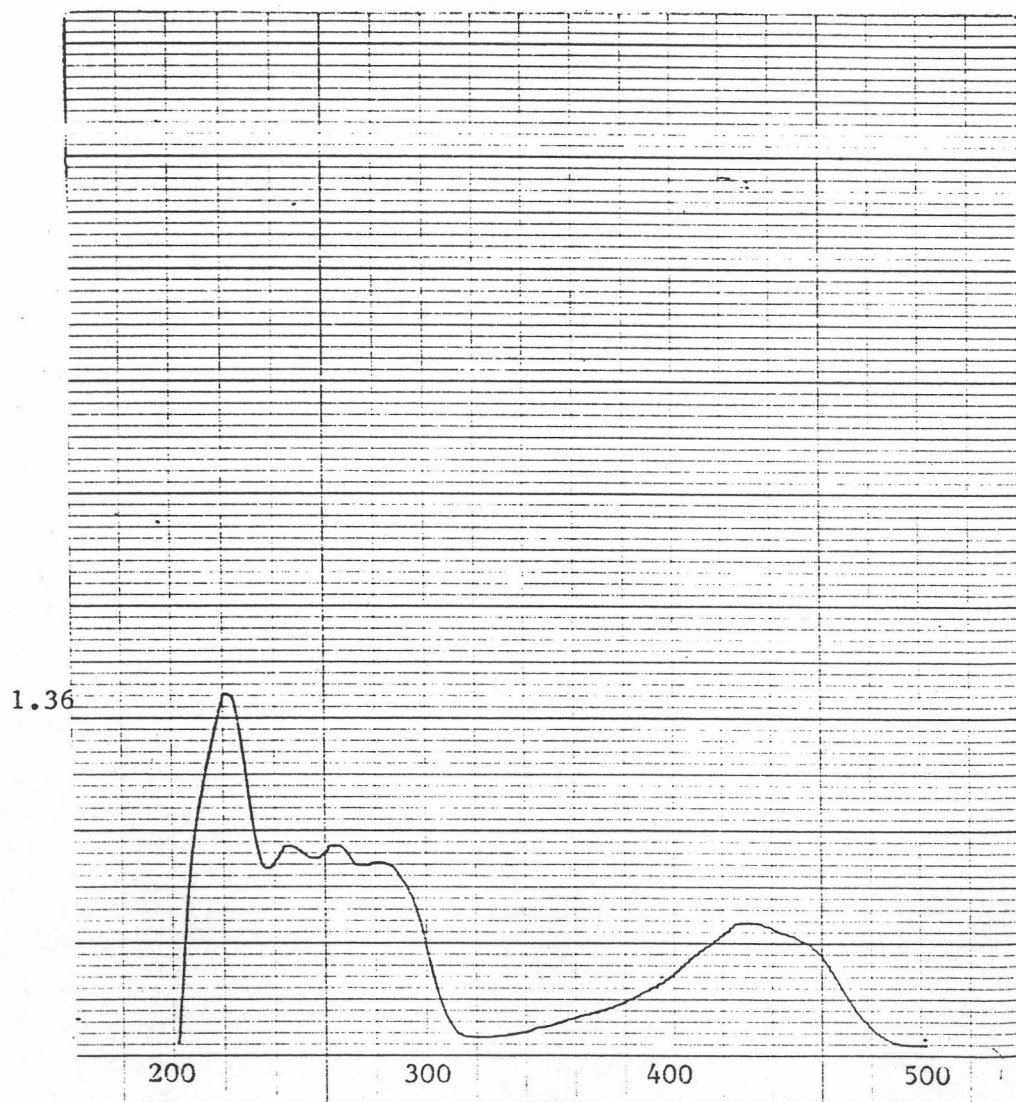
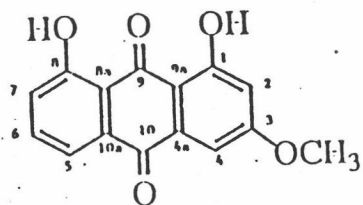


Figure 22 Ultraviolet absorption spectrum of XI-2

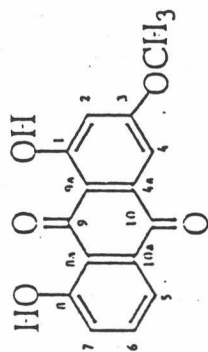
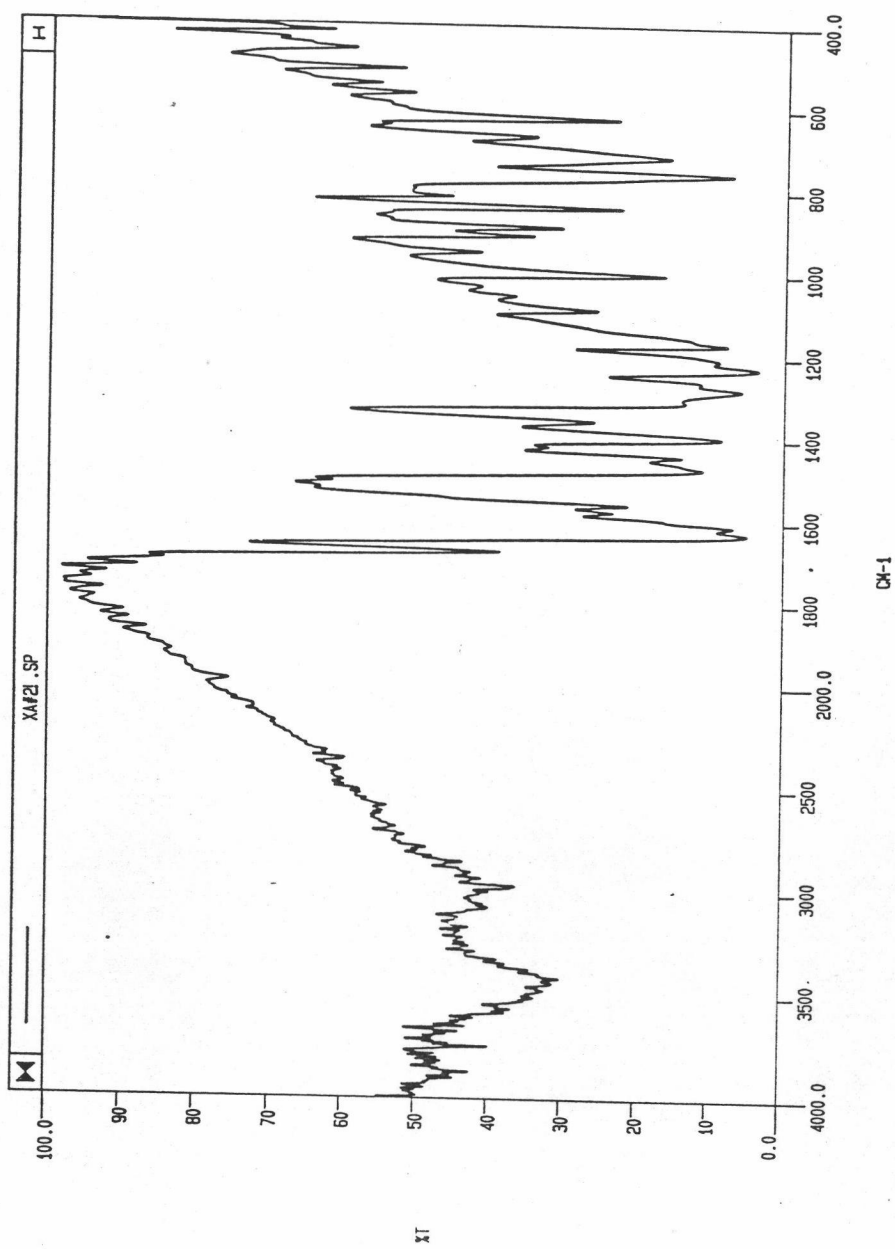
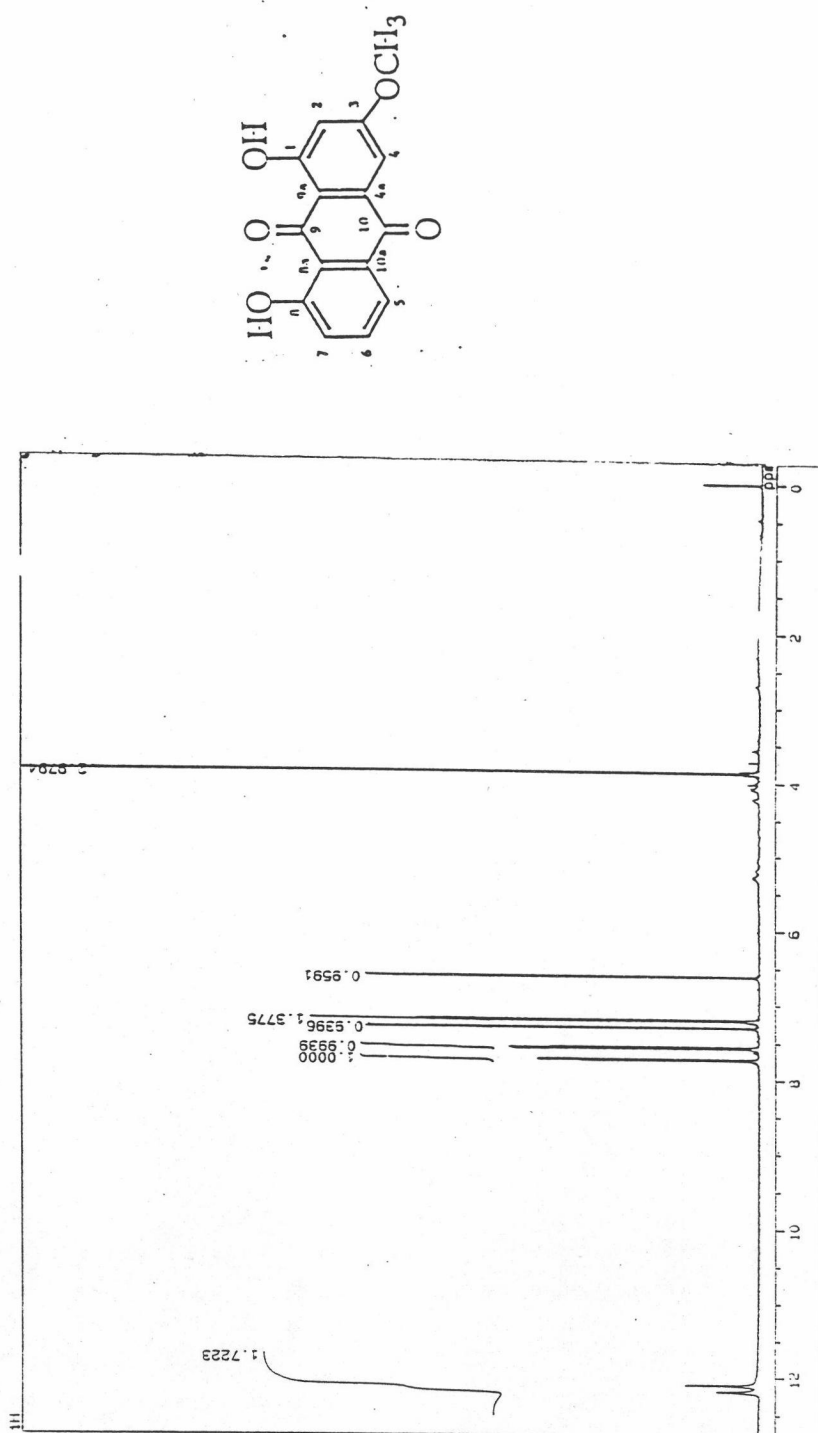
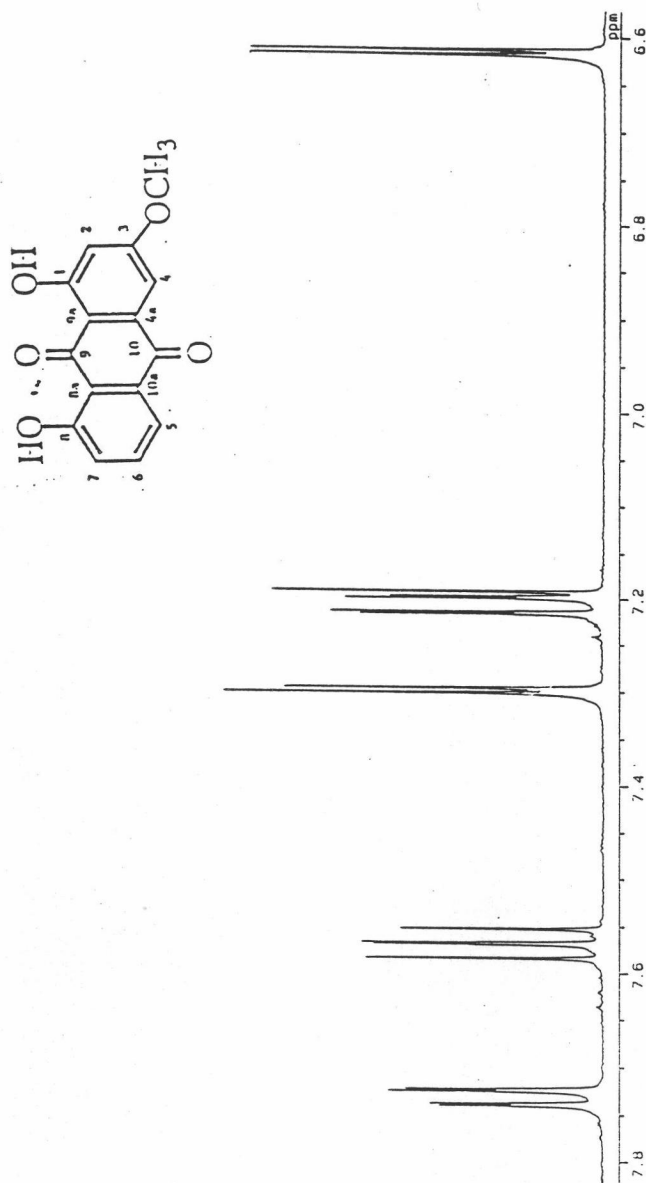


Figure 23 Infrared absorption spectrum of XI-2

Figure 24 $^1\text{H-NMR}$ spectrum of XI-2

Figure 25 Expansion of $^1\text{H-NMR}$ spectrum of XI-2

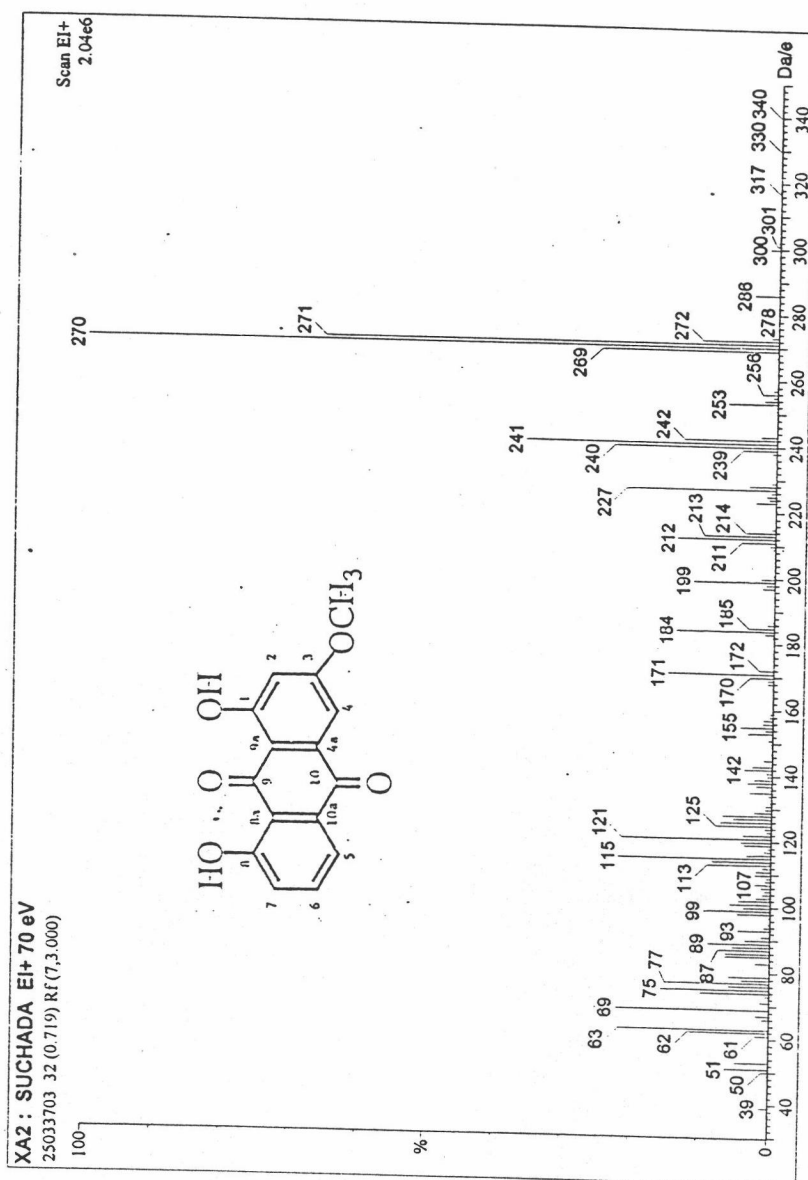


Figure 26 EI mass spectrum of XI-2

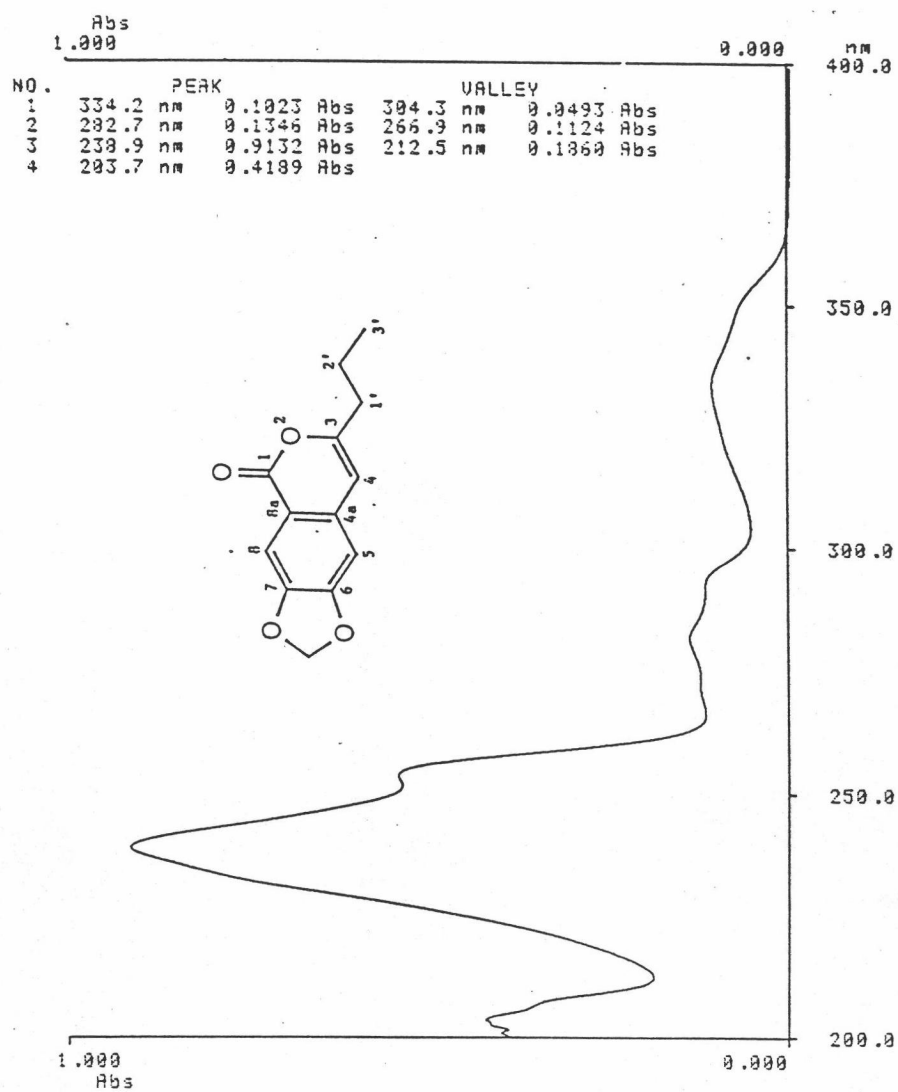


Figure 27 Ultraviolet absorption spectrum of XI-3

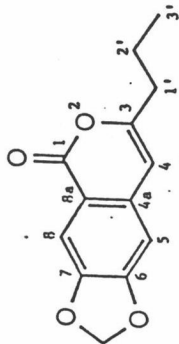
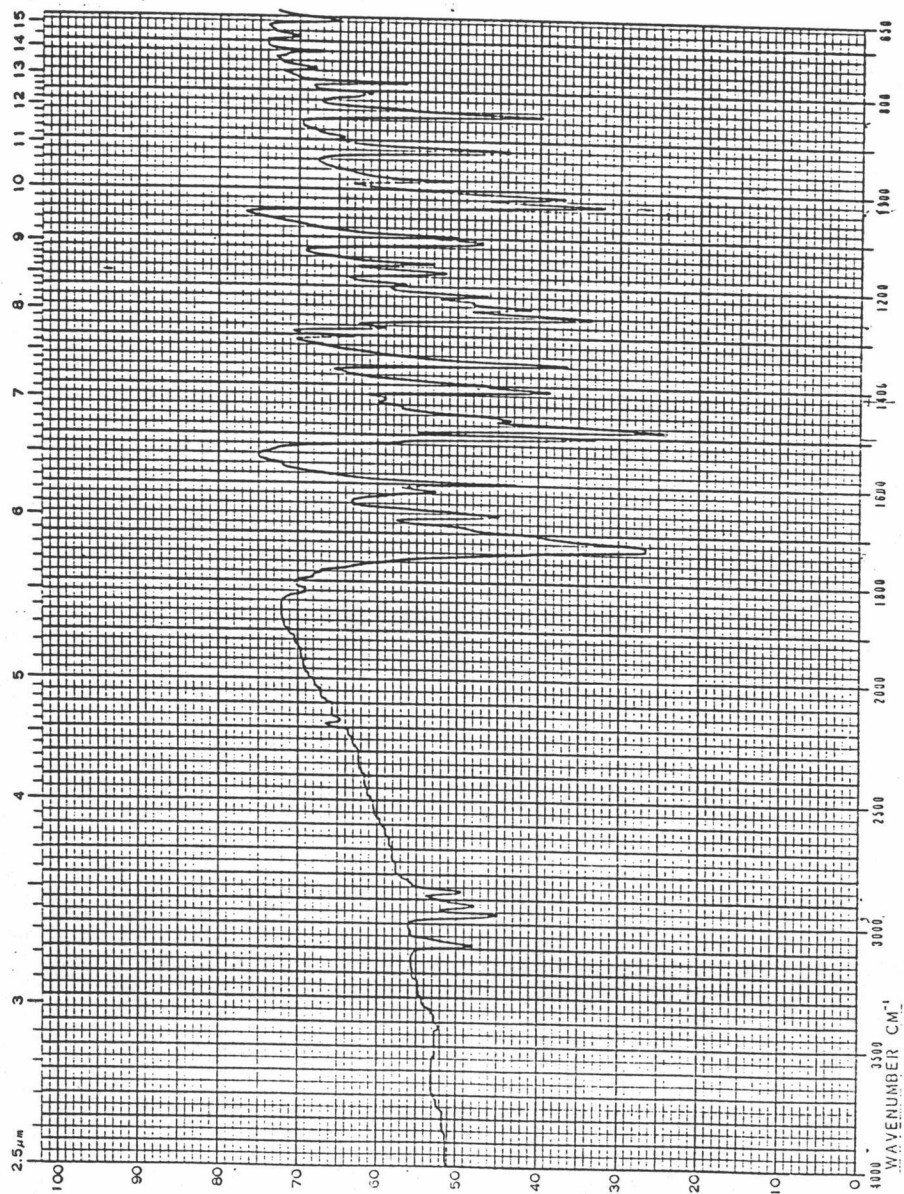
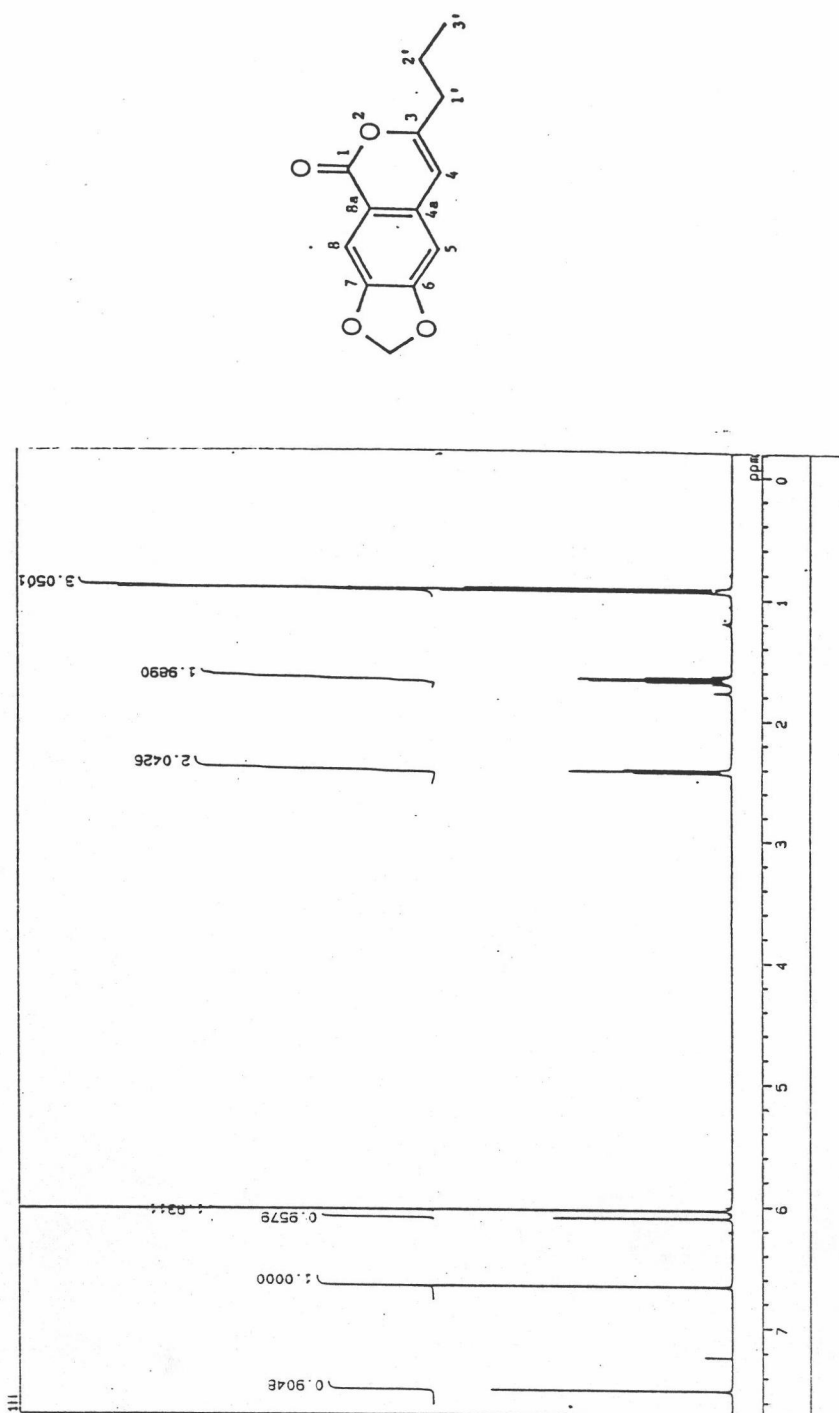
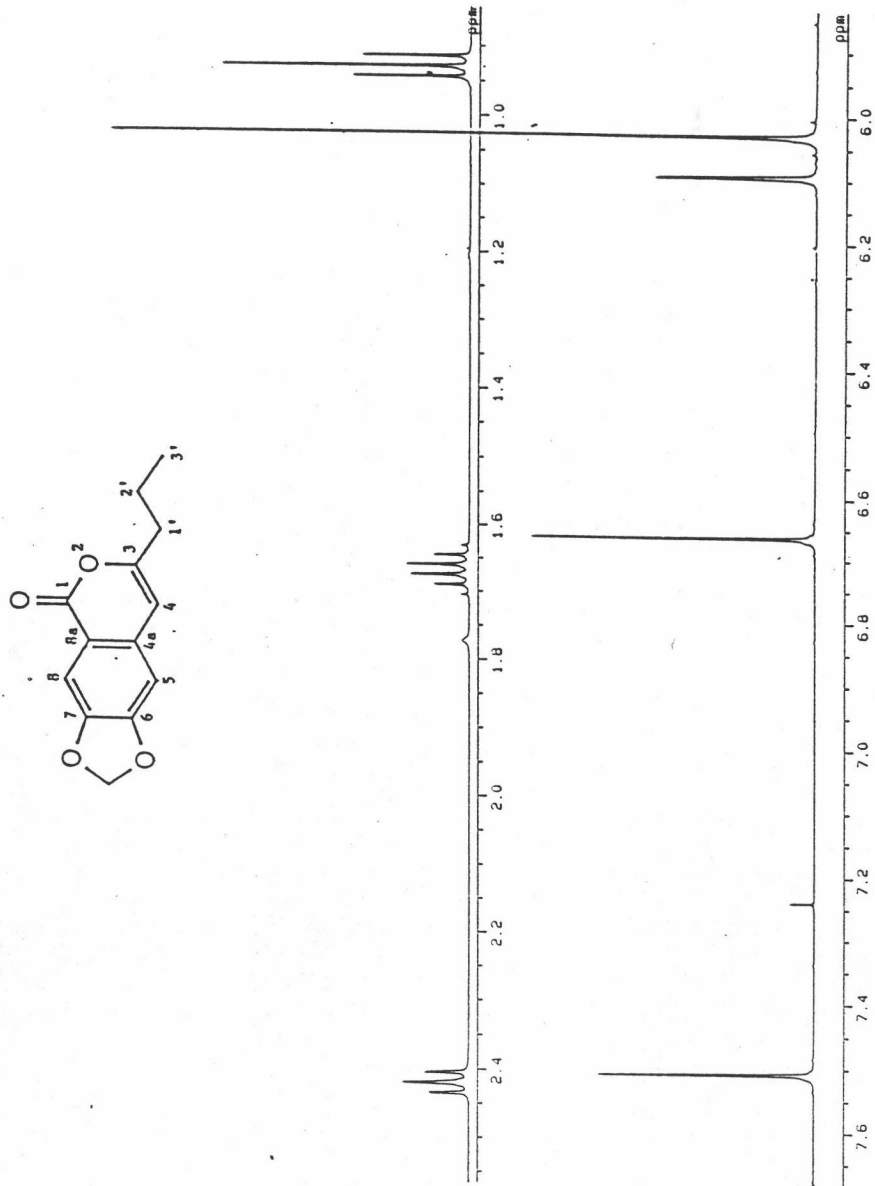


Figure 28 Infrared absorption spectrum of XI-3

Figure 29 $^1\text{H-NMR}$ spectrum of XI-3

Figure 30 Expansion of $^1\text{H-NMR}$ spectrum of XI-3

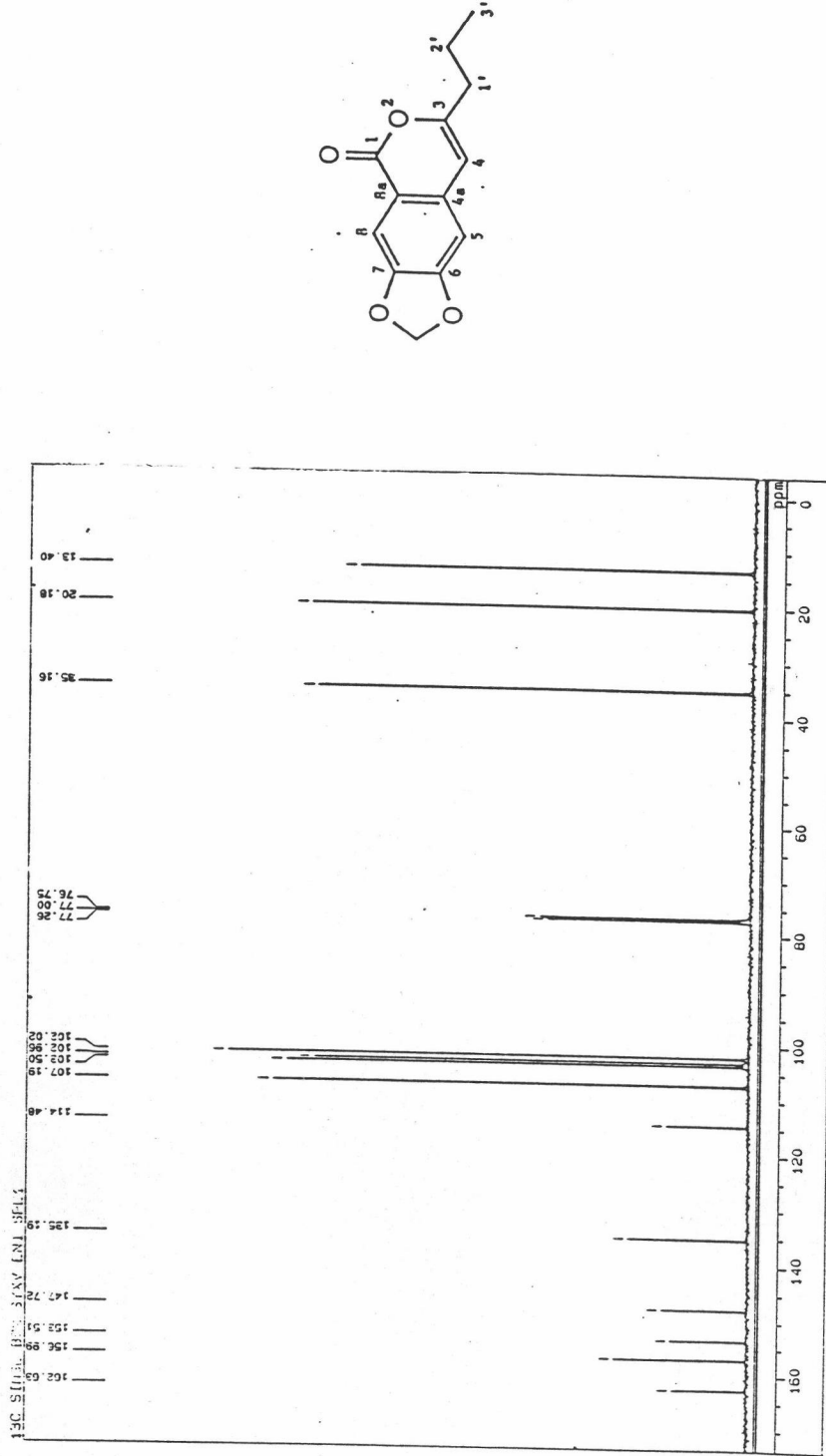
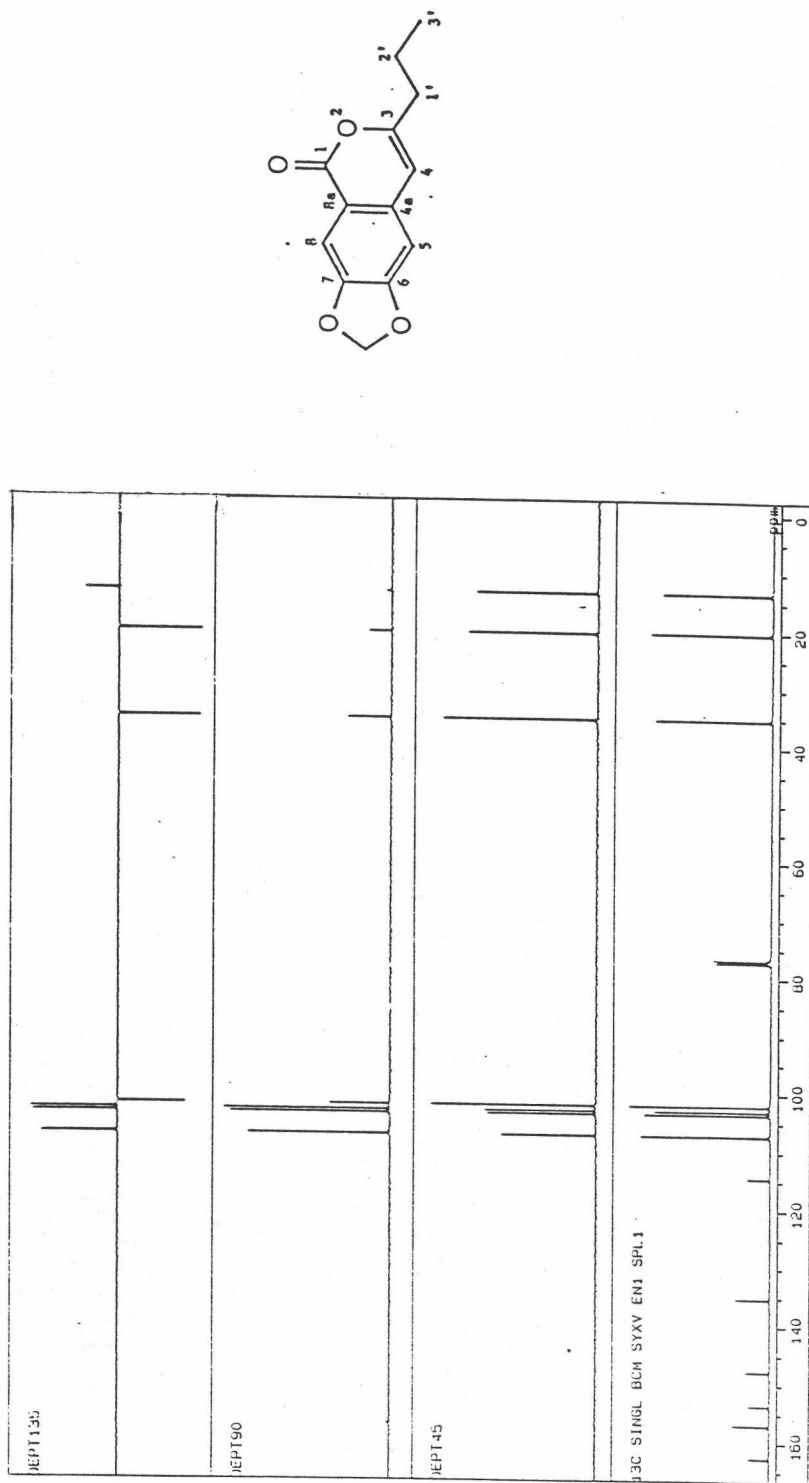
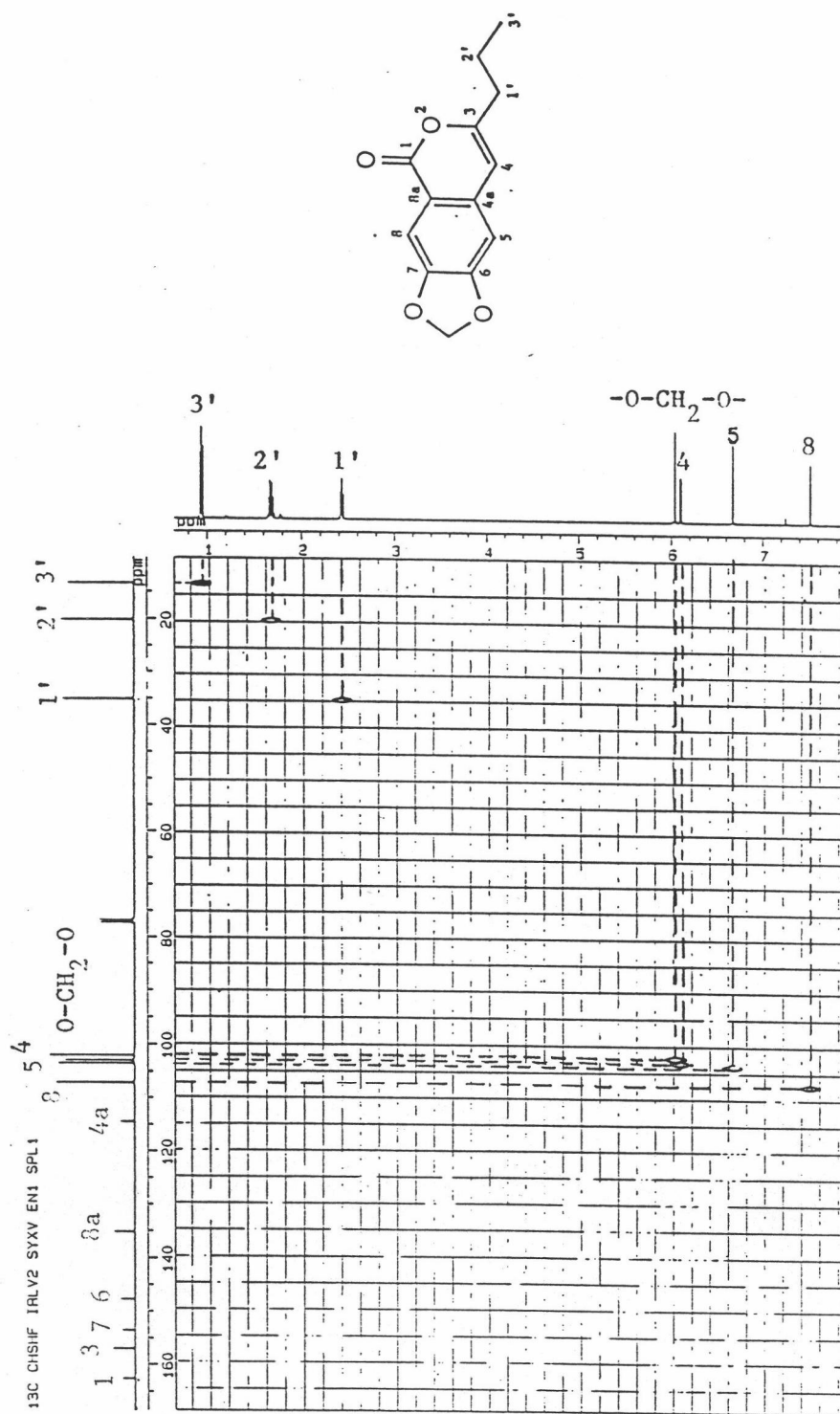


Figure 31 ¹³C-NMR spectrum of XI-3

Figure 32 ^{13}C -NMR spectrum of XI-3 (DEPT)

Figure 33 ^{13}C - ^1H COSY spectrum of XI-3

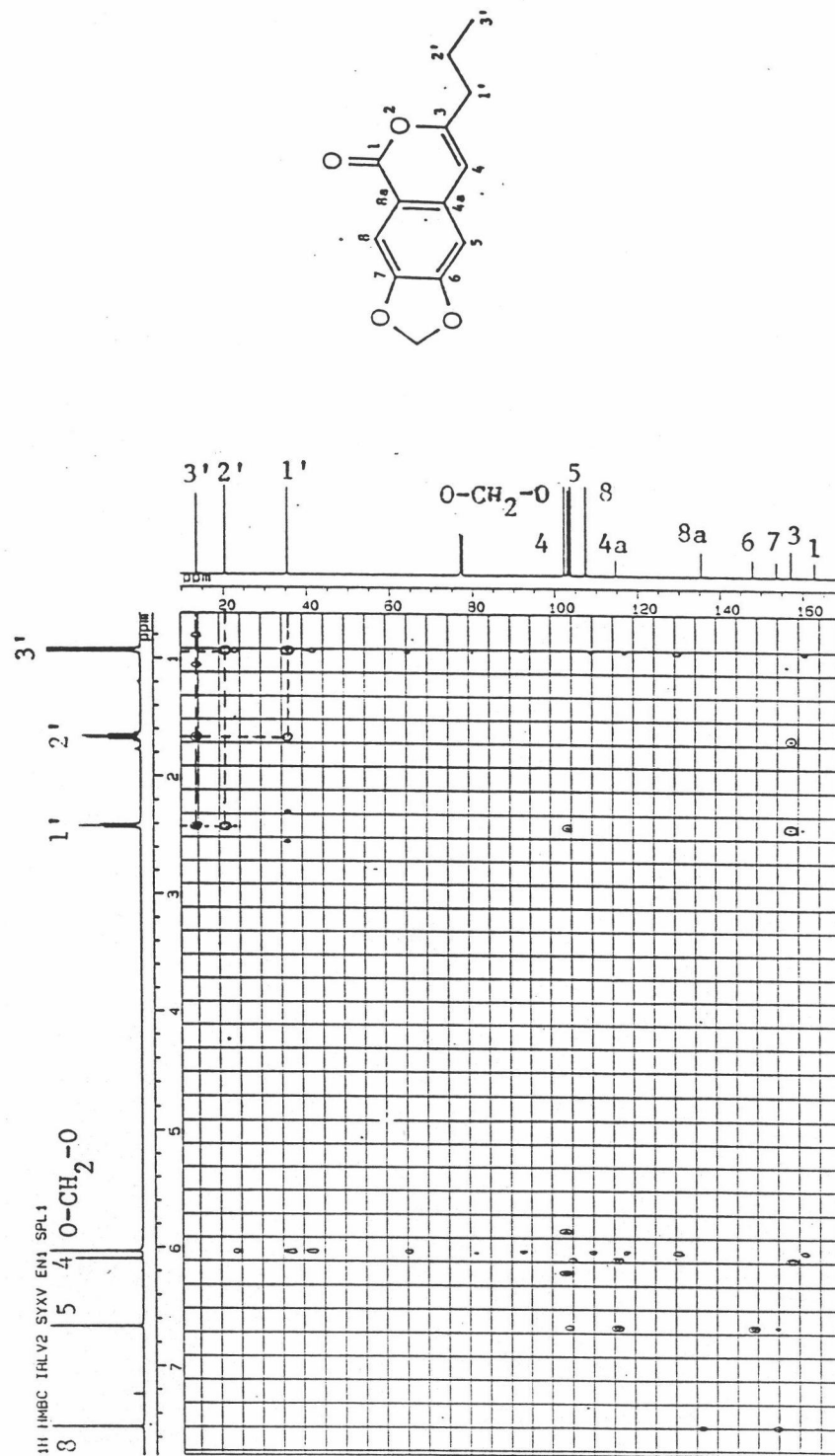


Figure 34 HMBP spectrum of XI-3

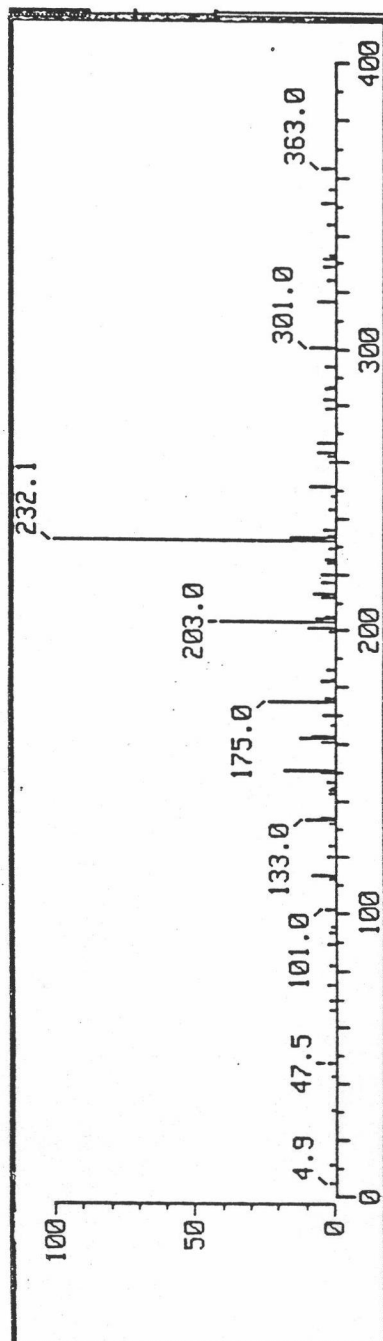
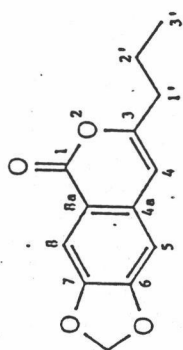


Figure 36 HREIMS spectrum of XI-3

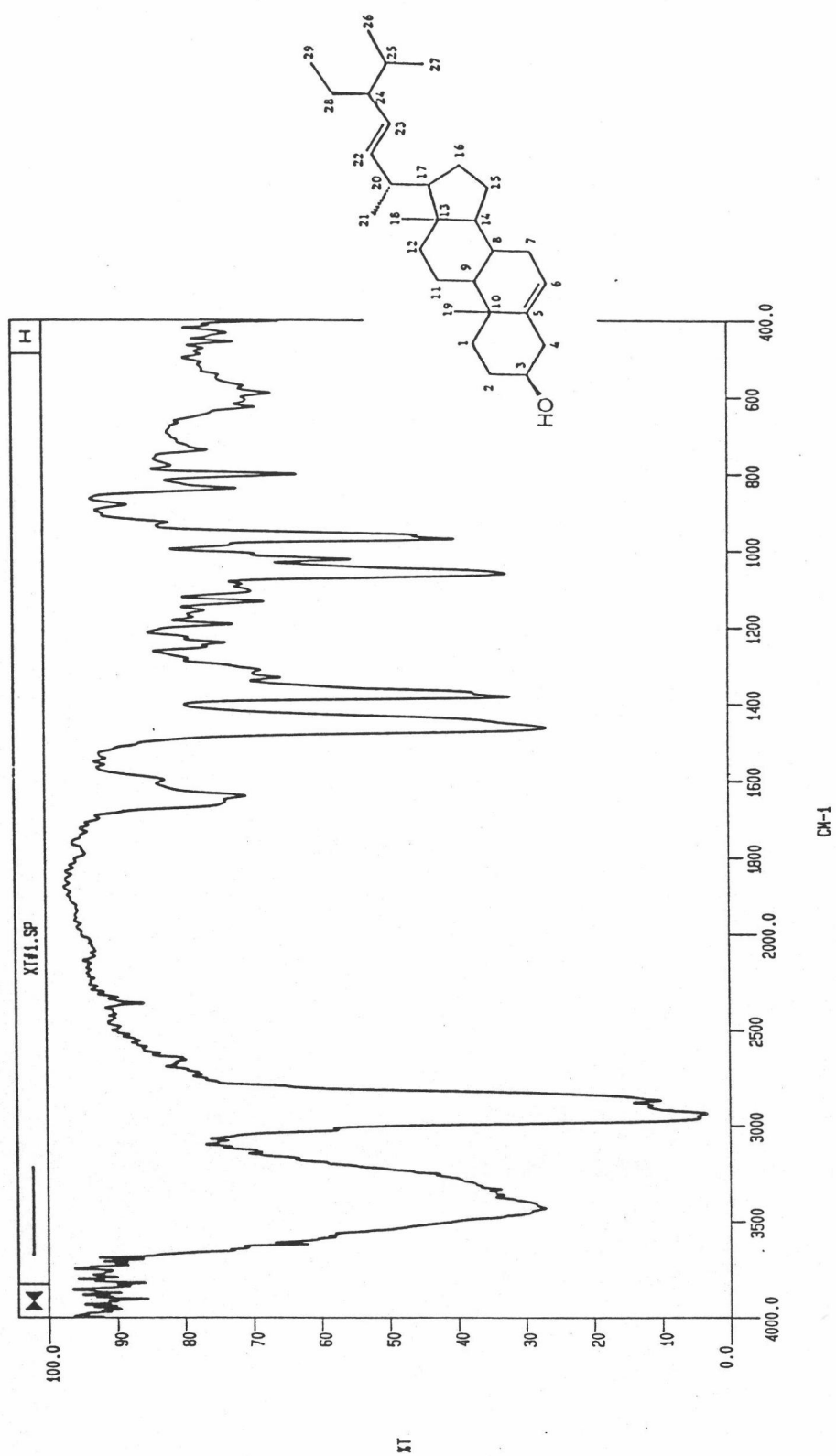
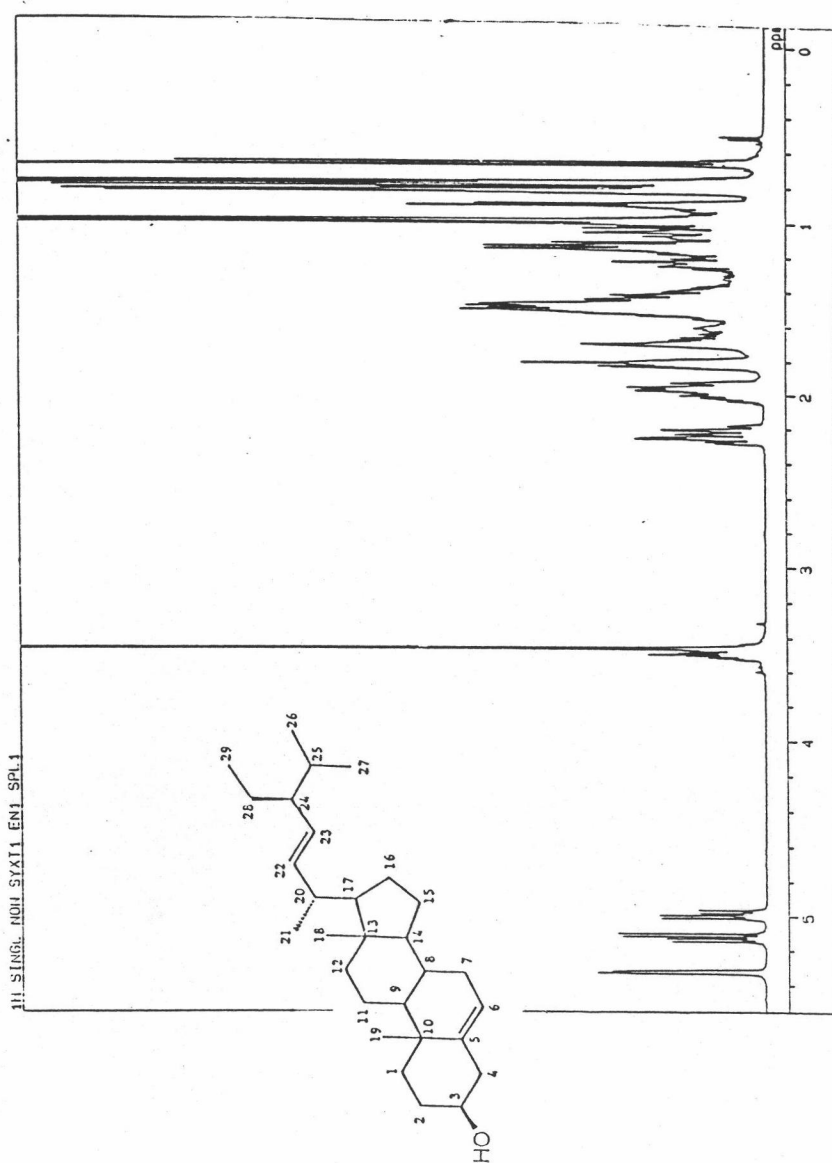
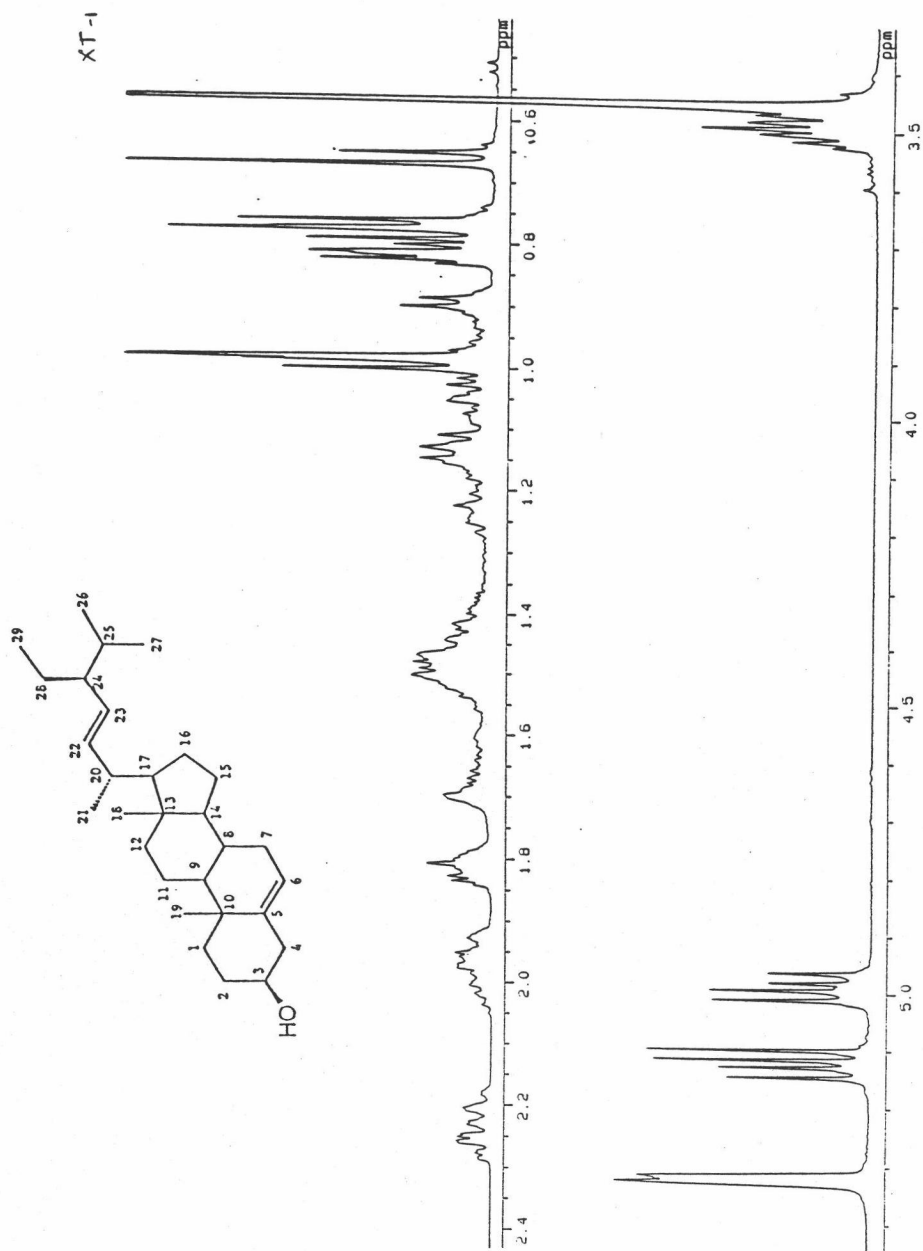


Figure 37 Infrared absorption spectrum of XI-4

Figure 38 ¹H-NMR spectrum of XI-4

Figure 39 Expansion of $^1\text{H-NMR}$ spectrum of XI-4

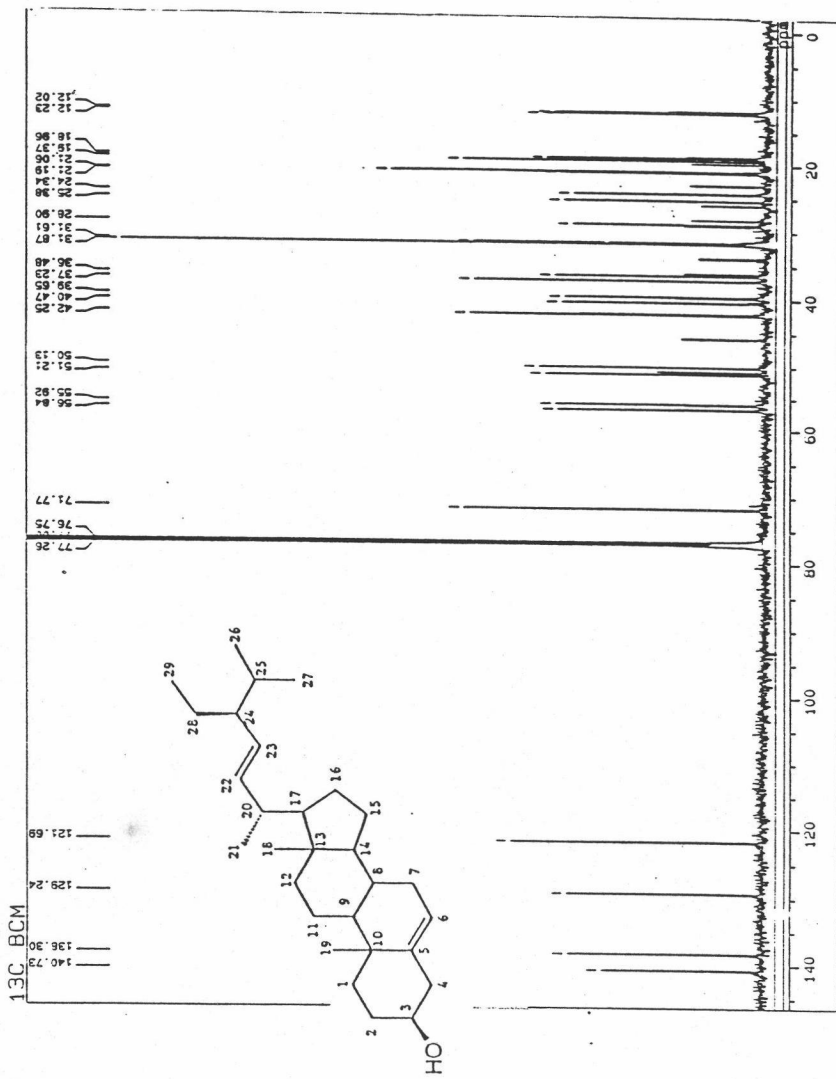
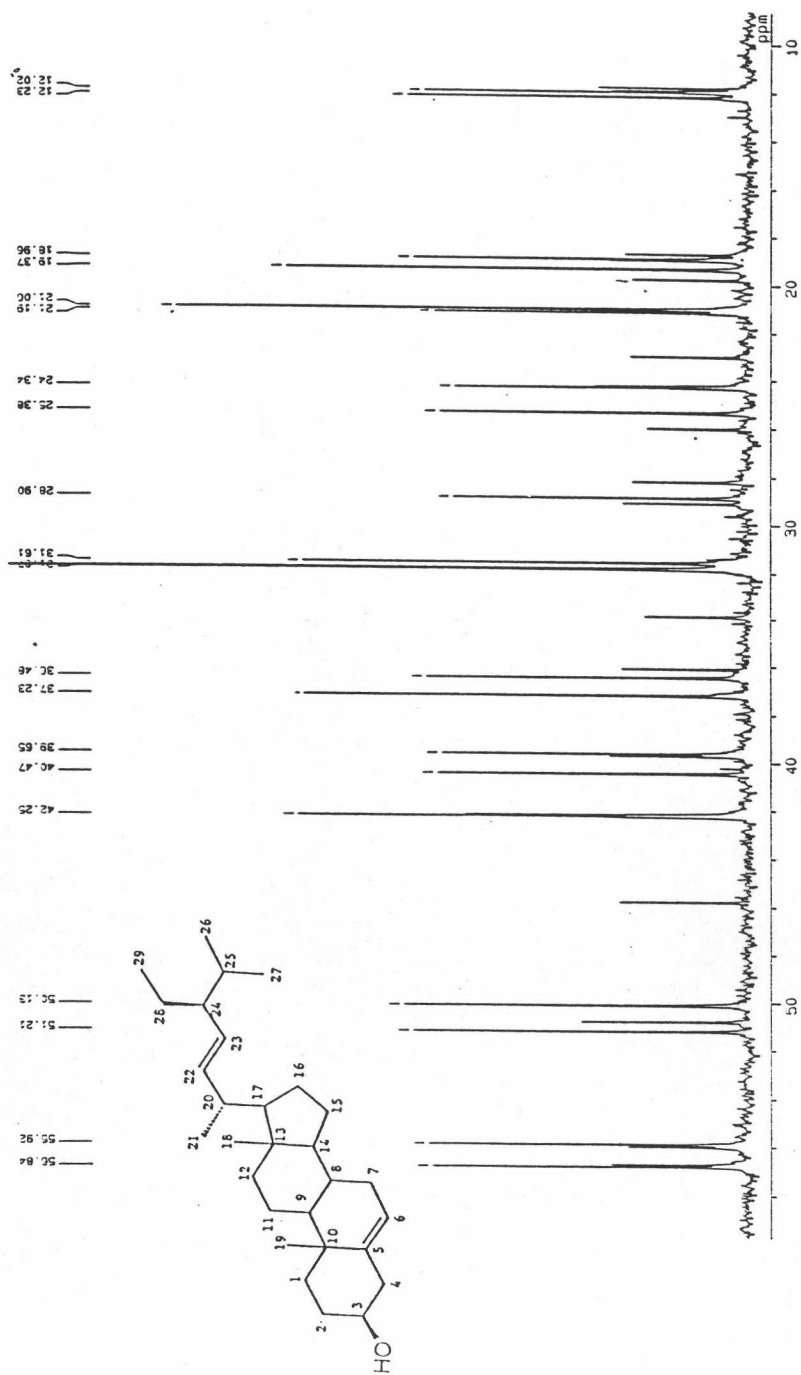


Figure 40 ¹³C-NMR spectrum of XI-4

Figure 41 Expansion of ^{13}C -NMR spectrum of XI-4

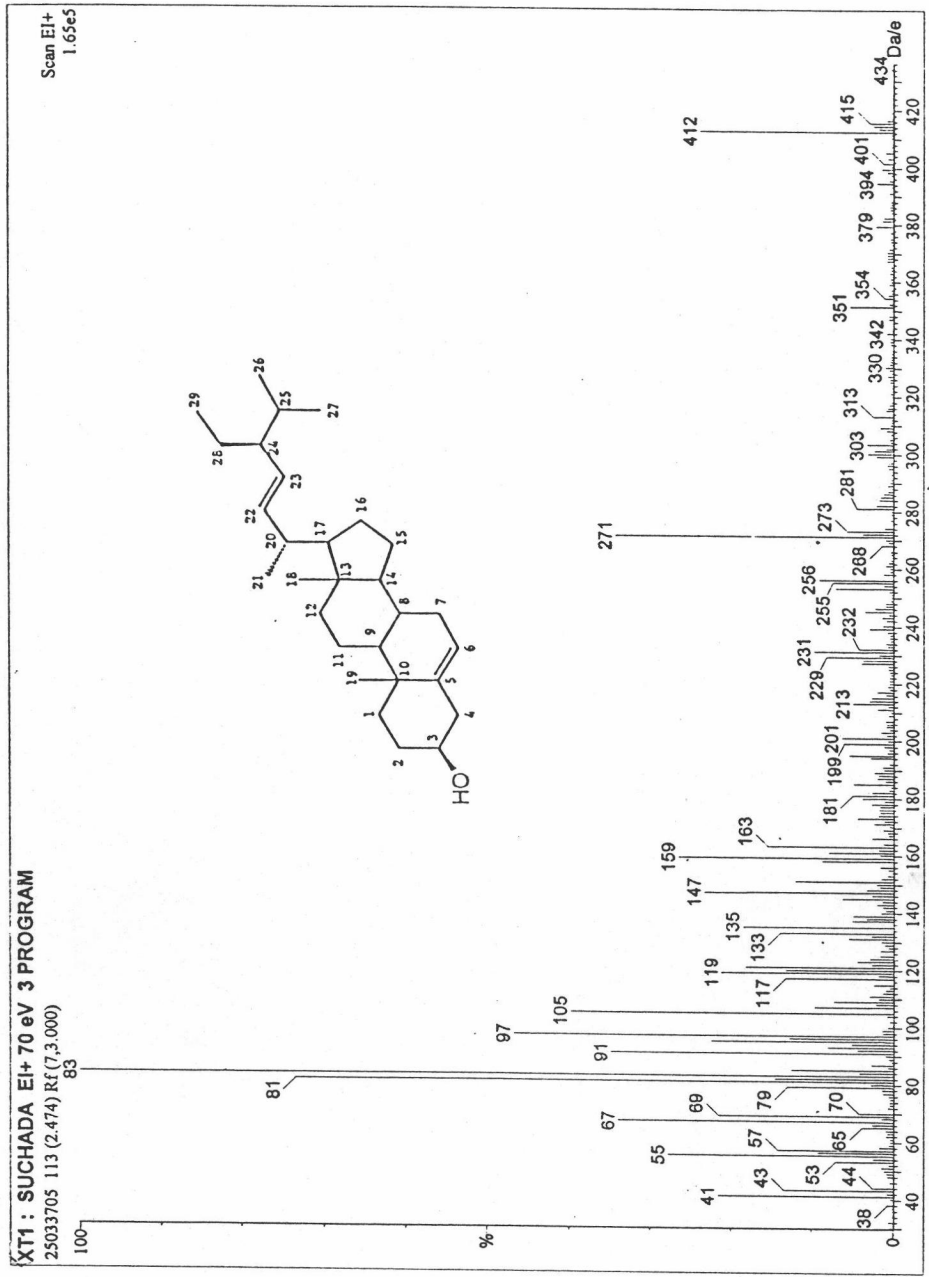


Figure 42 EI mass spectrum of XI-4

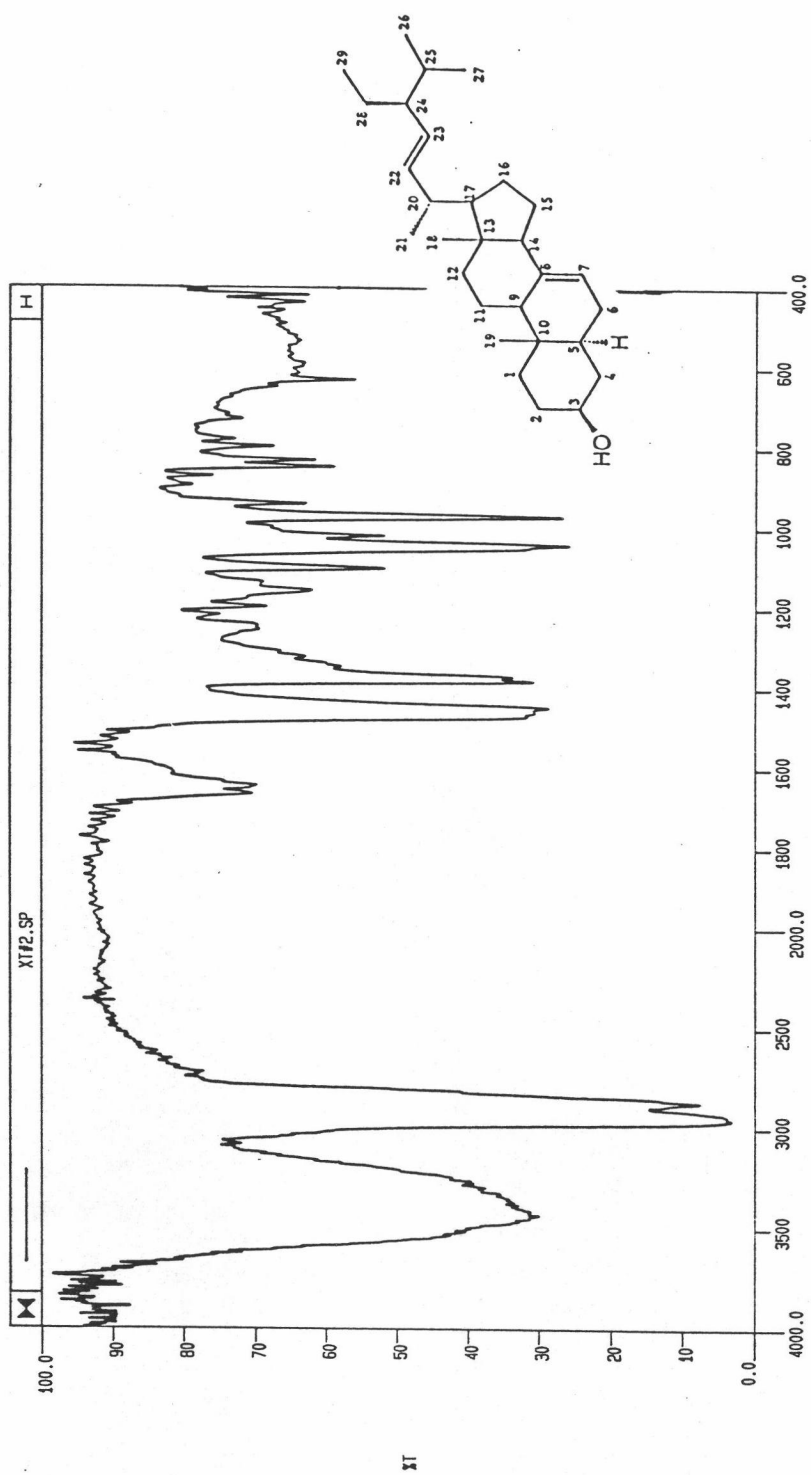
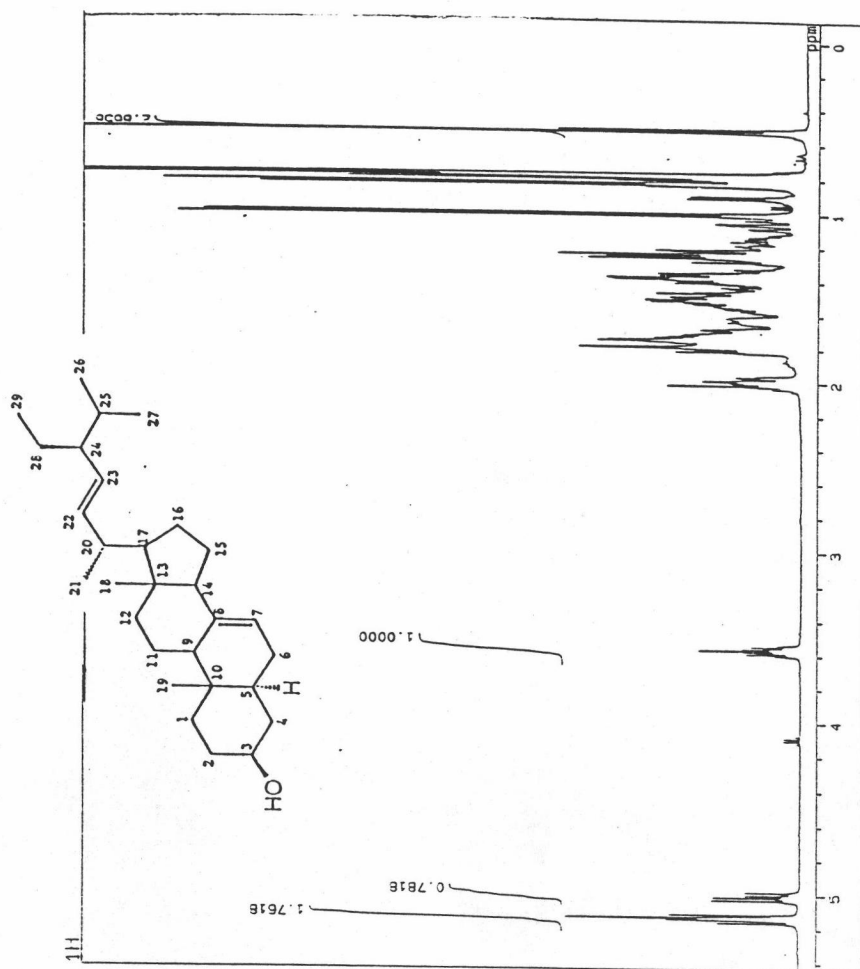
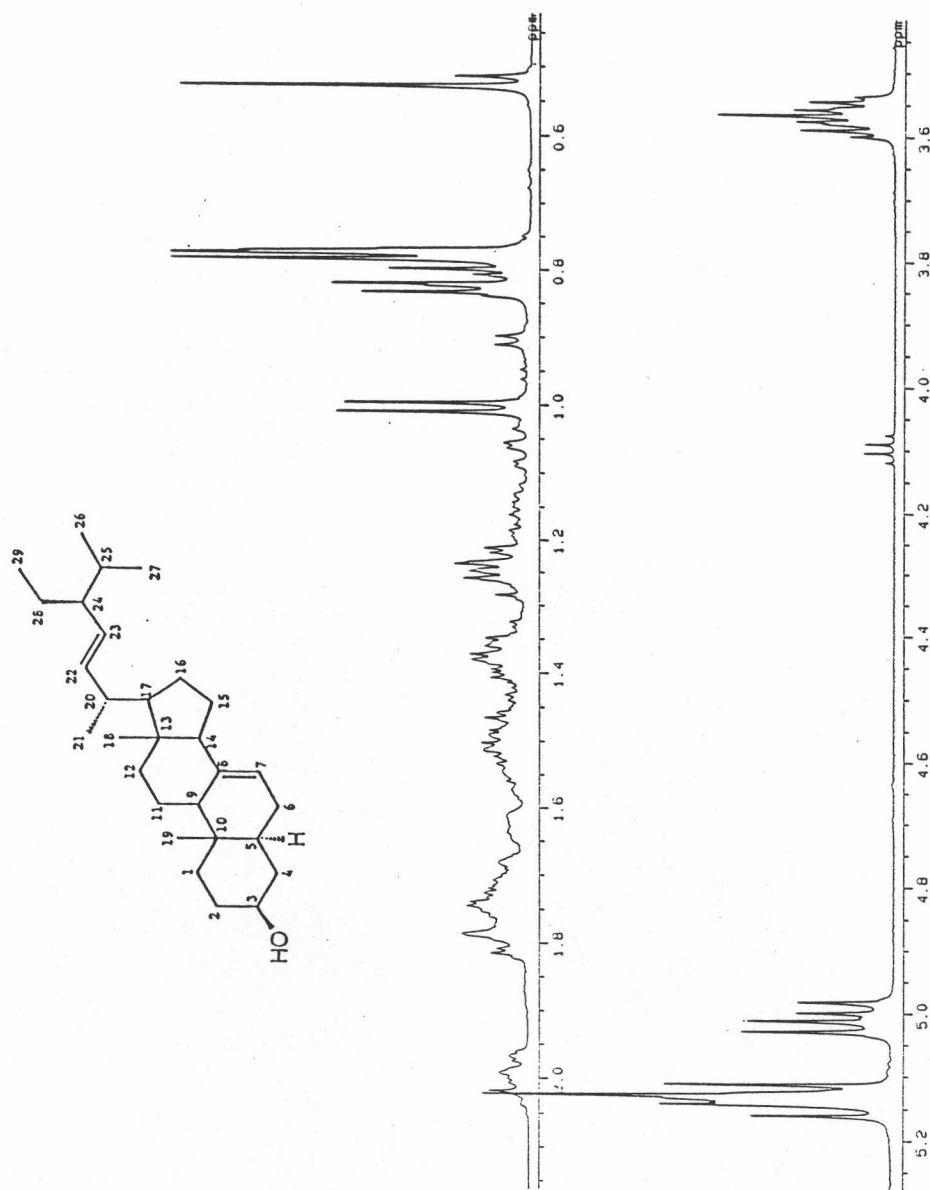
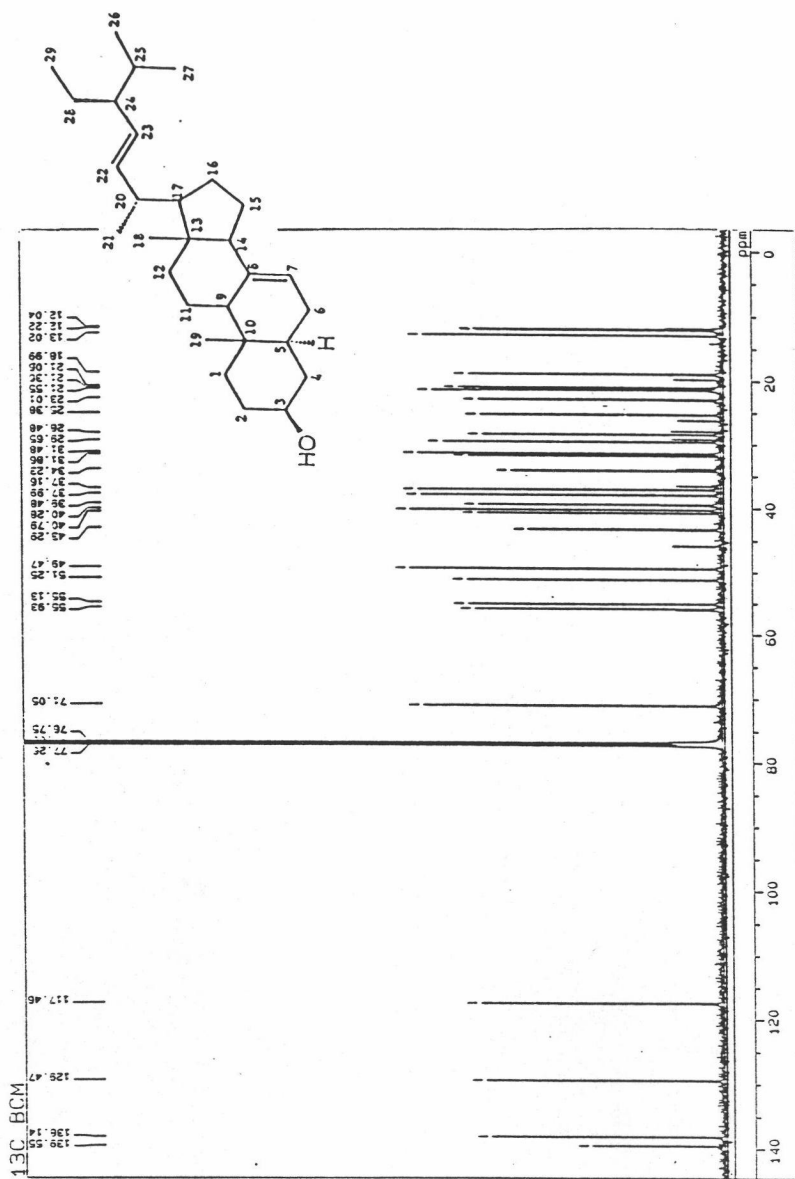


Figure 43 Infrared absorption spectrum of XI-5

Figure 44 $^1\text{H-NMR}$ spectrum of XI-5

Figure 45 Expansion of ¹H-NMR spectrum of XI-5

Figure 46 ^{13}C -NMR spectrum of XI-5

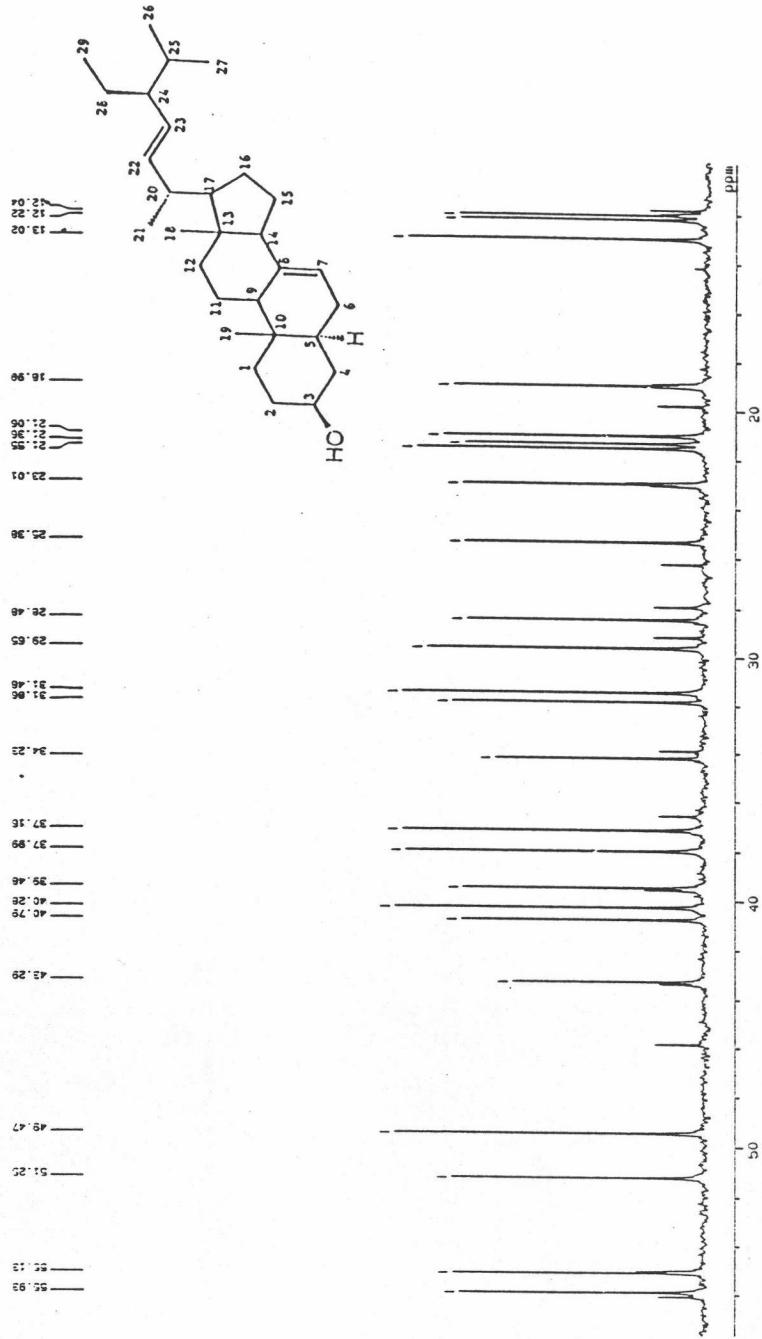


Figure 47 Expansion of ¹³C-NMR spectrum of XI-5

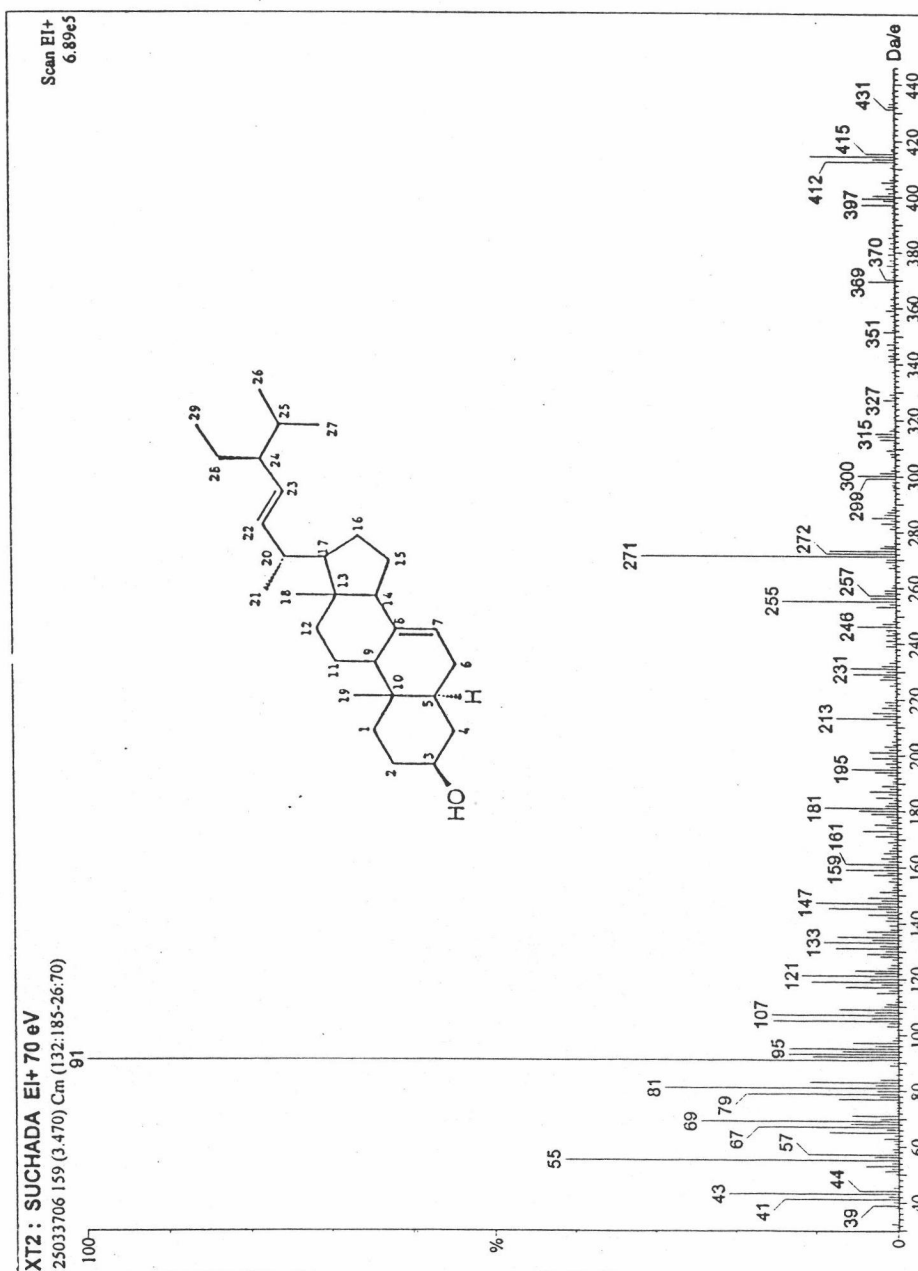


Figure 48 EI mass spectrum of XI-5

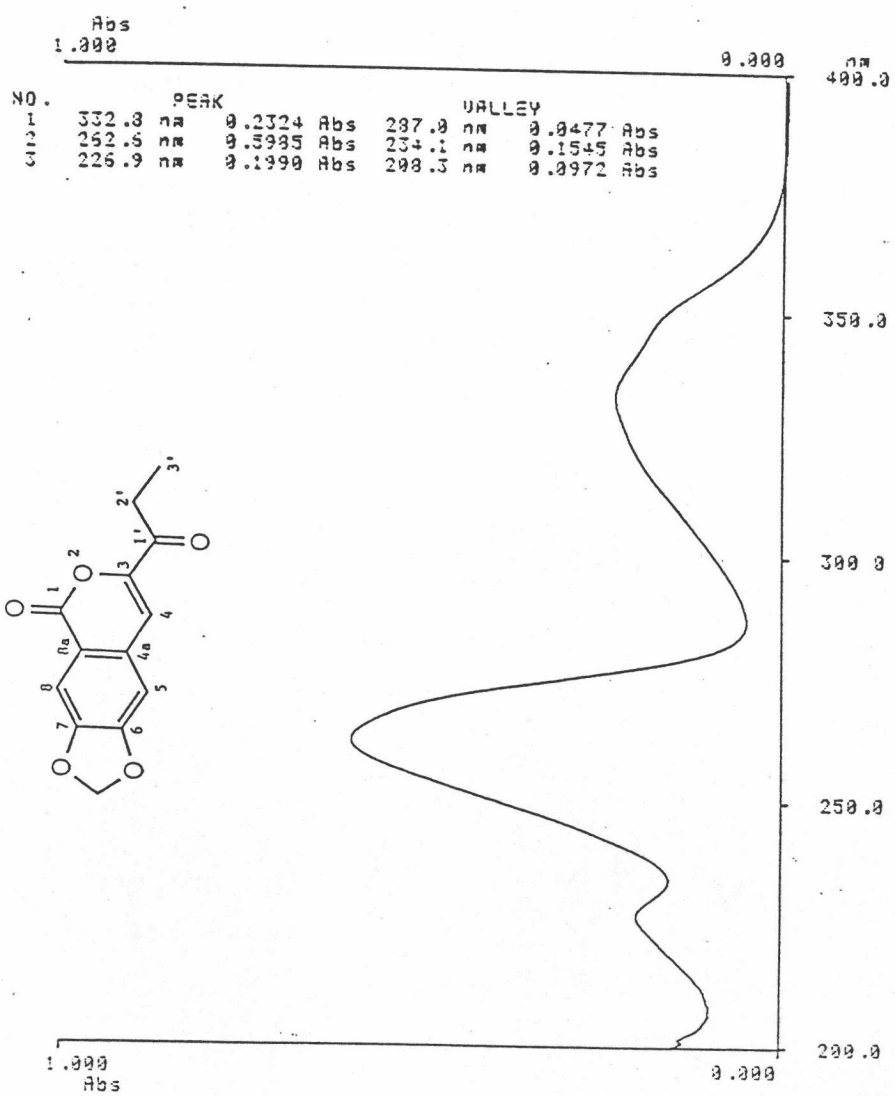


Figure 49 Ultraviolet absorption spectrum of XI-6

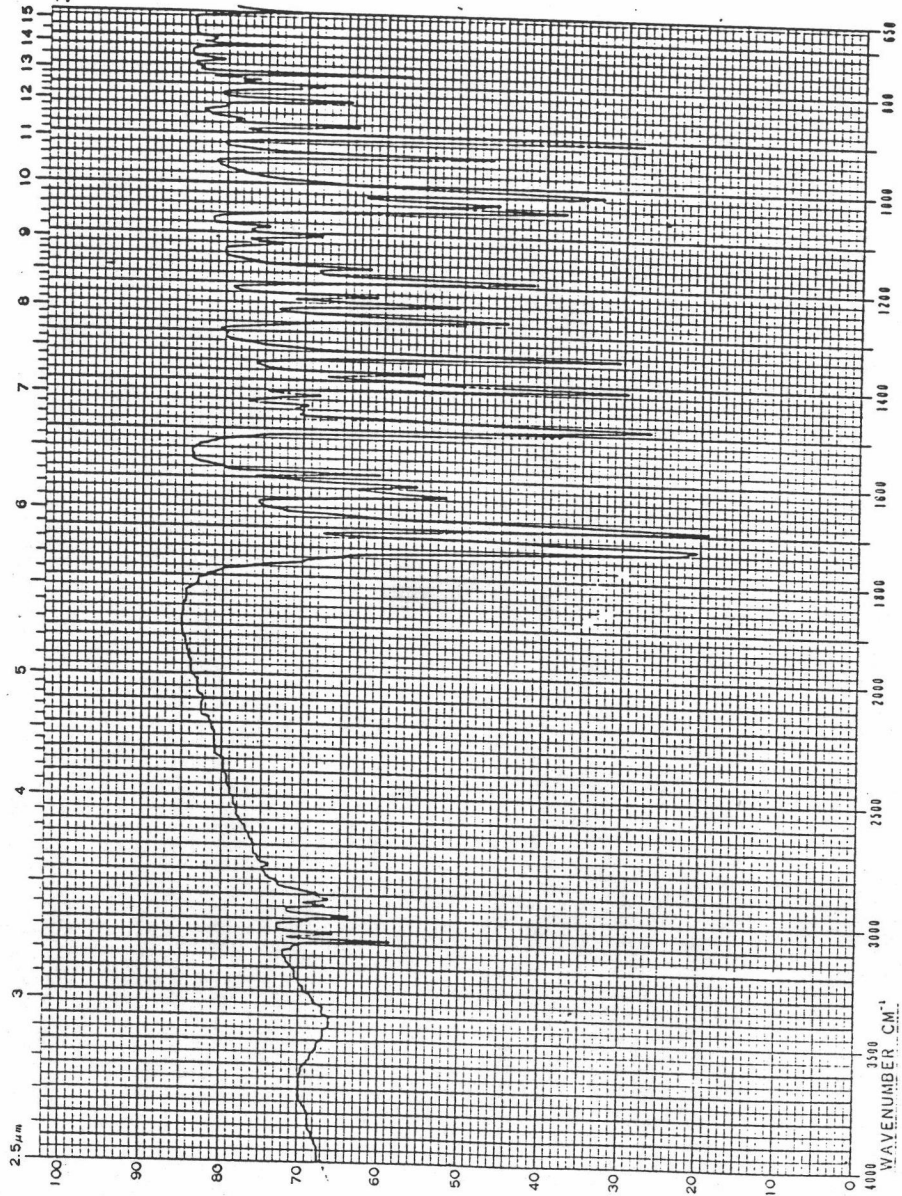
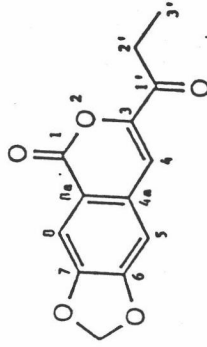
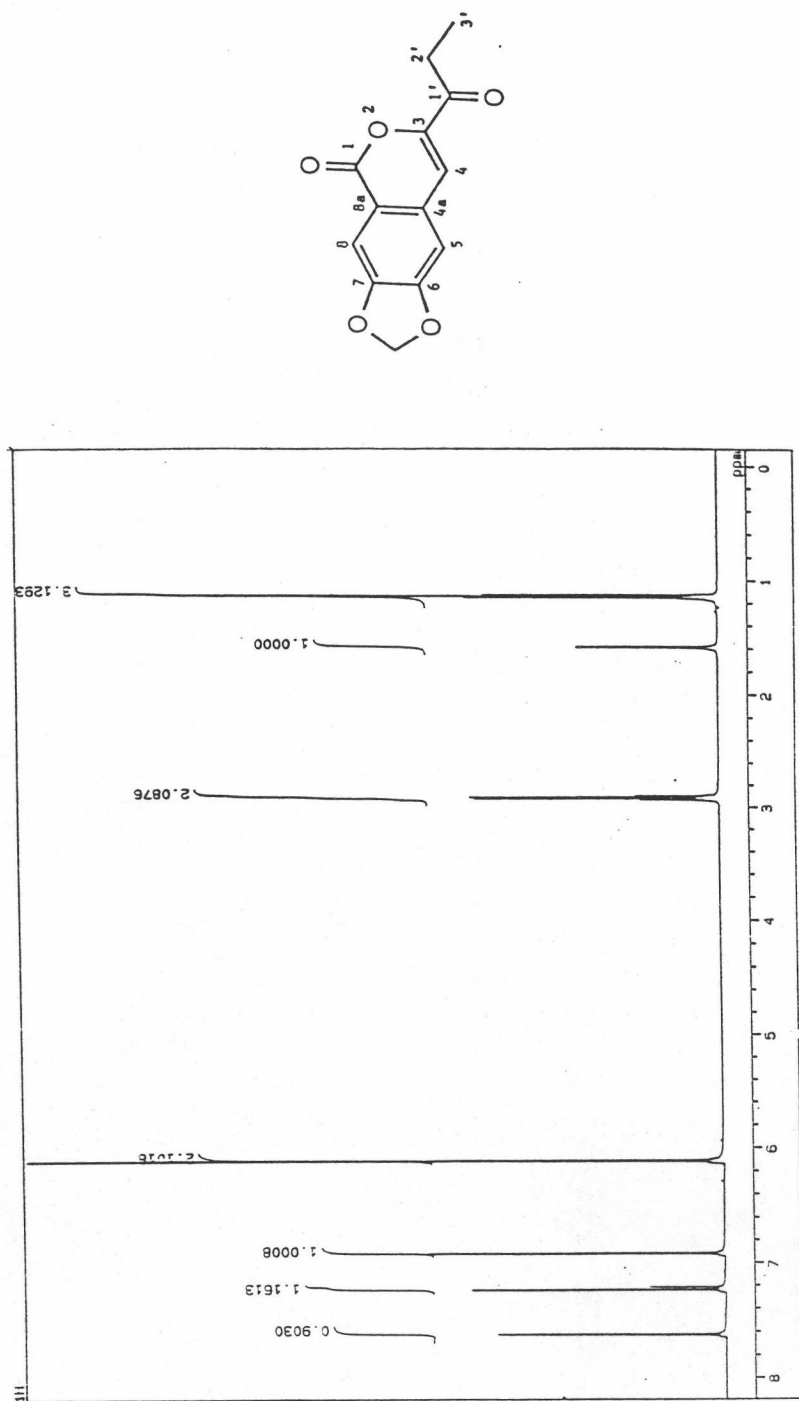
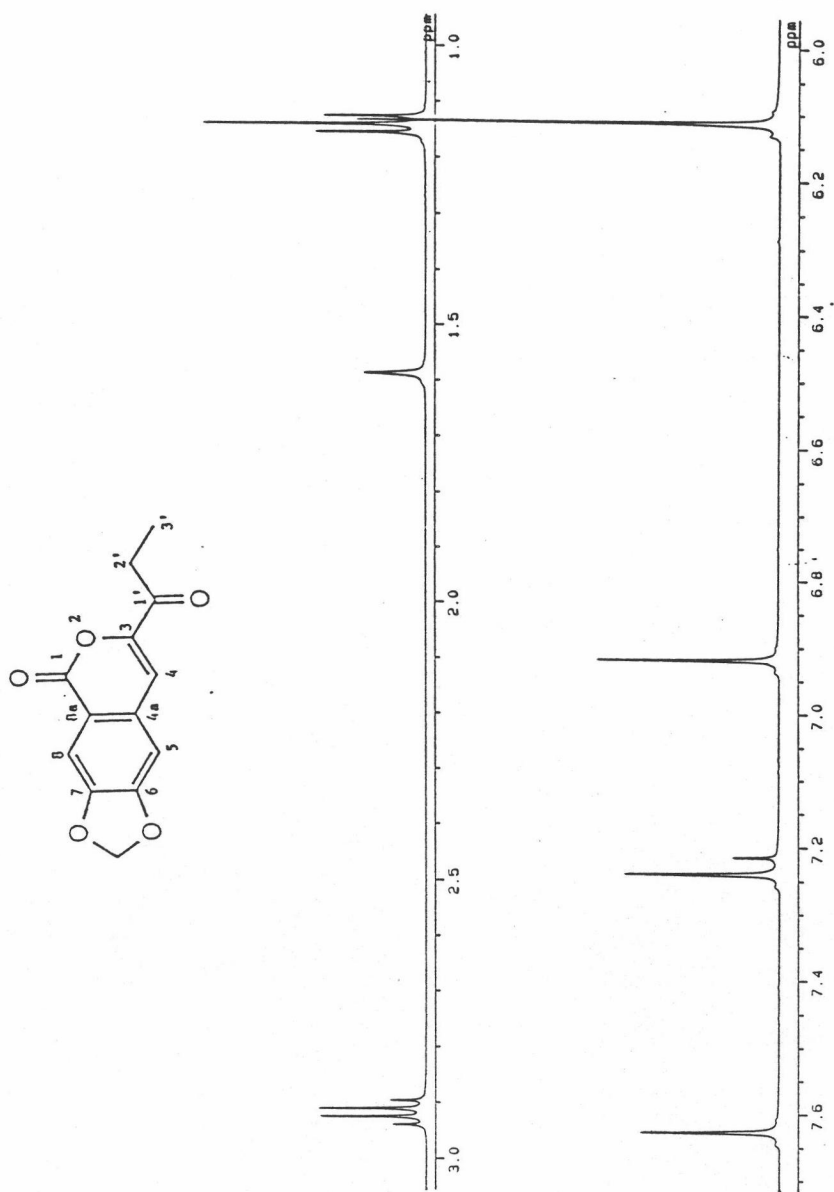
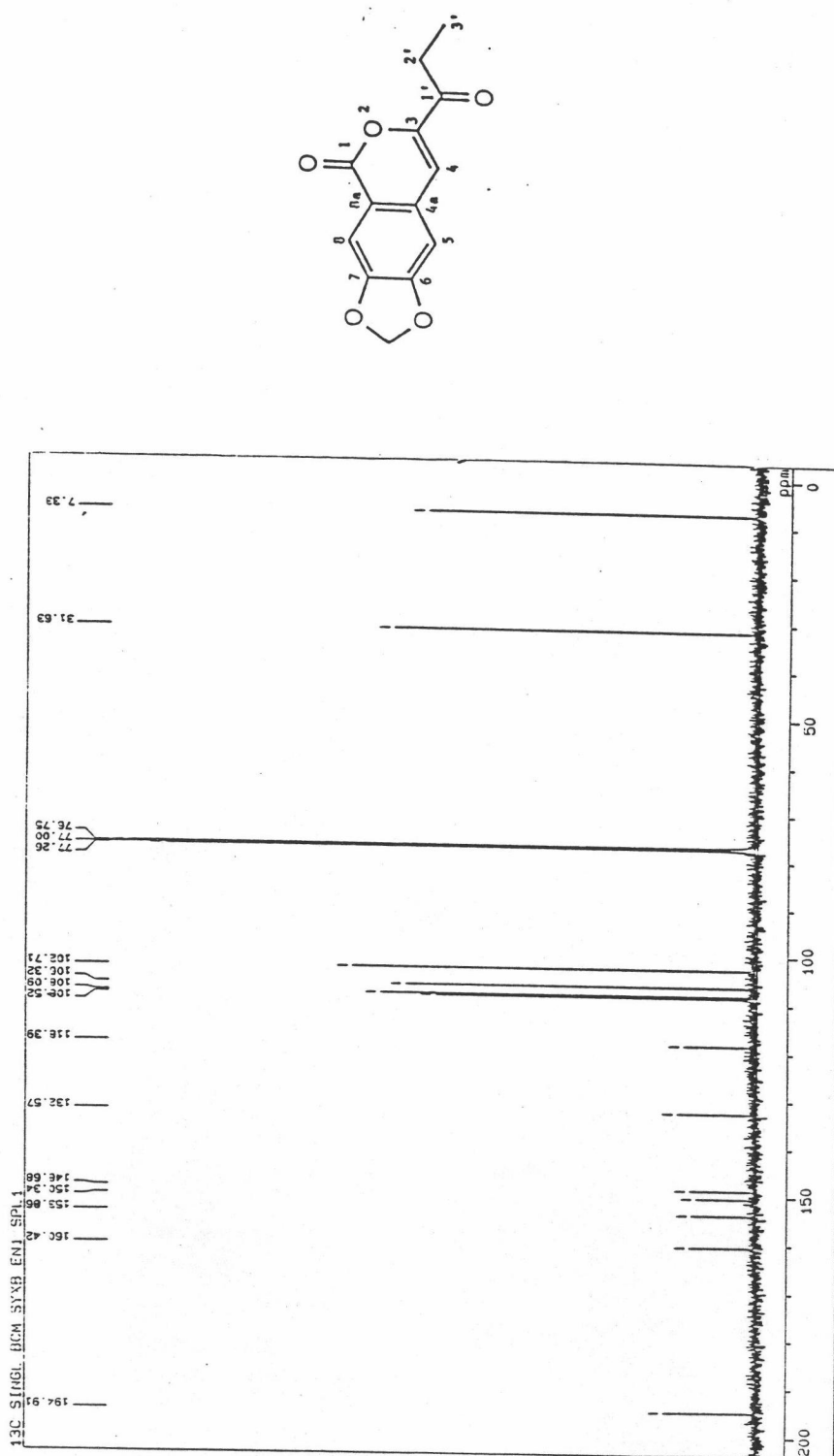
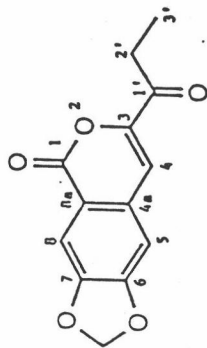
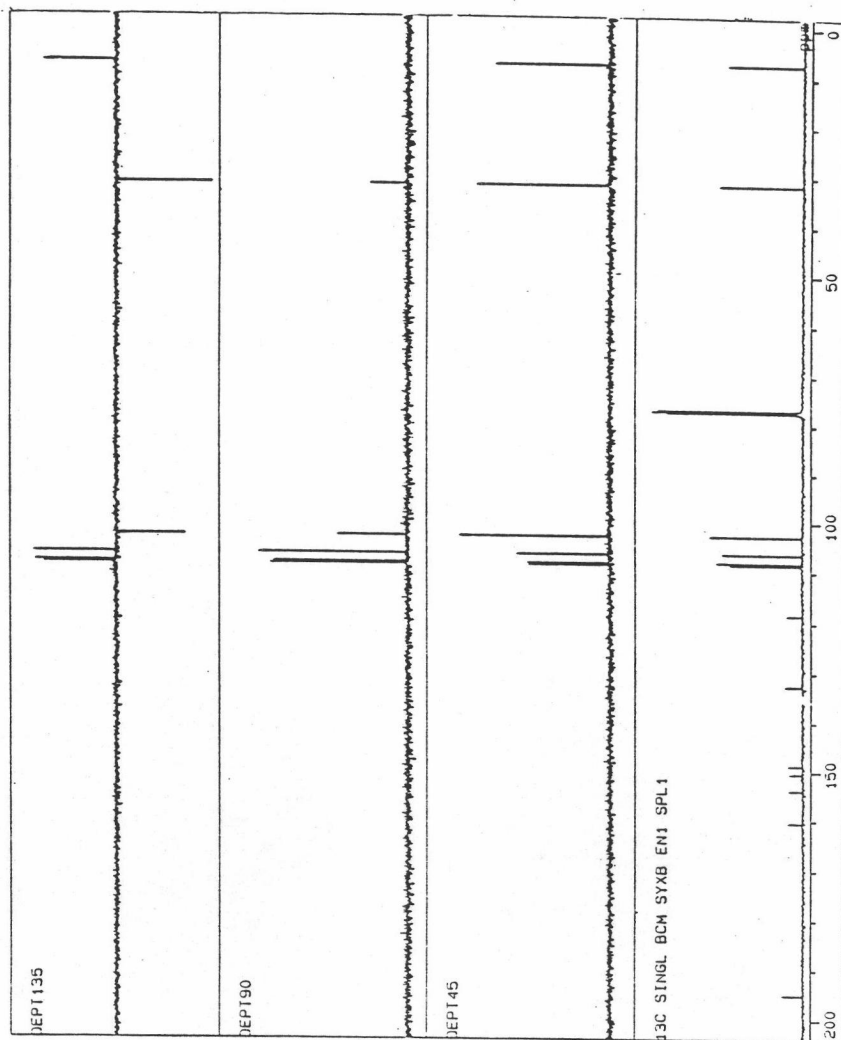


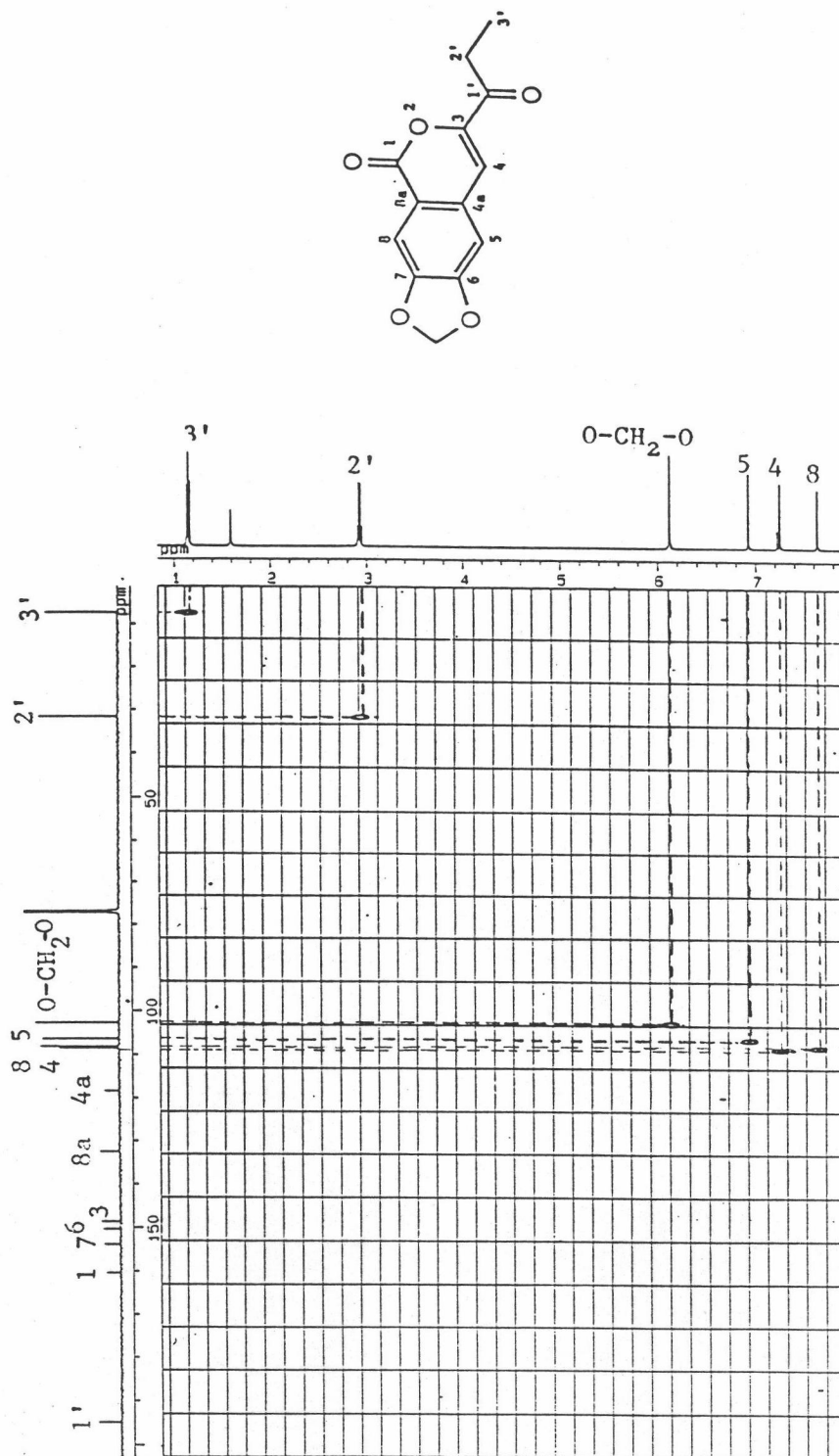
Figure 50 Infrared absorption spectrum of XI-6

Figure 51 ¹H-NMR spectrum of XI-6

Figure 52 Expansion of ¹H-NMR spectrum of XI-6

Figure 53 ^{13}C -NMR spectrum of XI-6

Figure 54 ¹³C-NMR spectrum of XI-6 (DEPT)

Figure 55 ^{13}C - ^1H COSY spectrum of XI-6

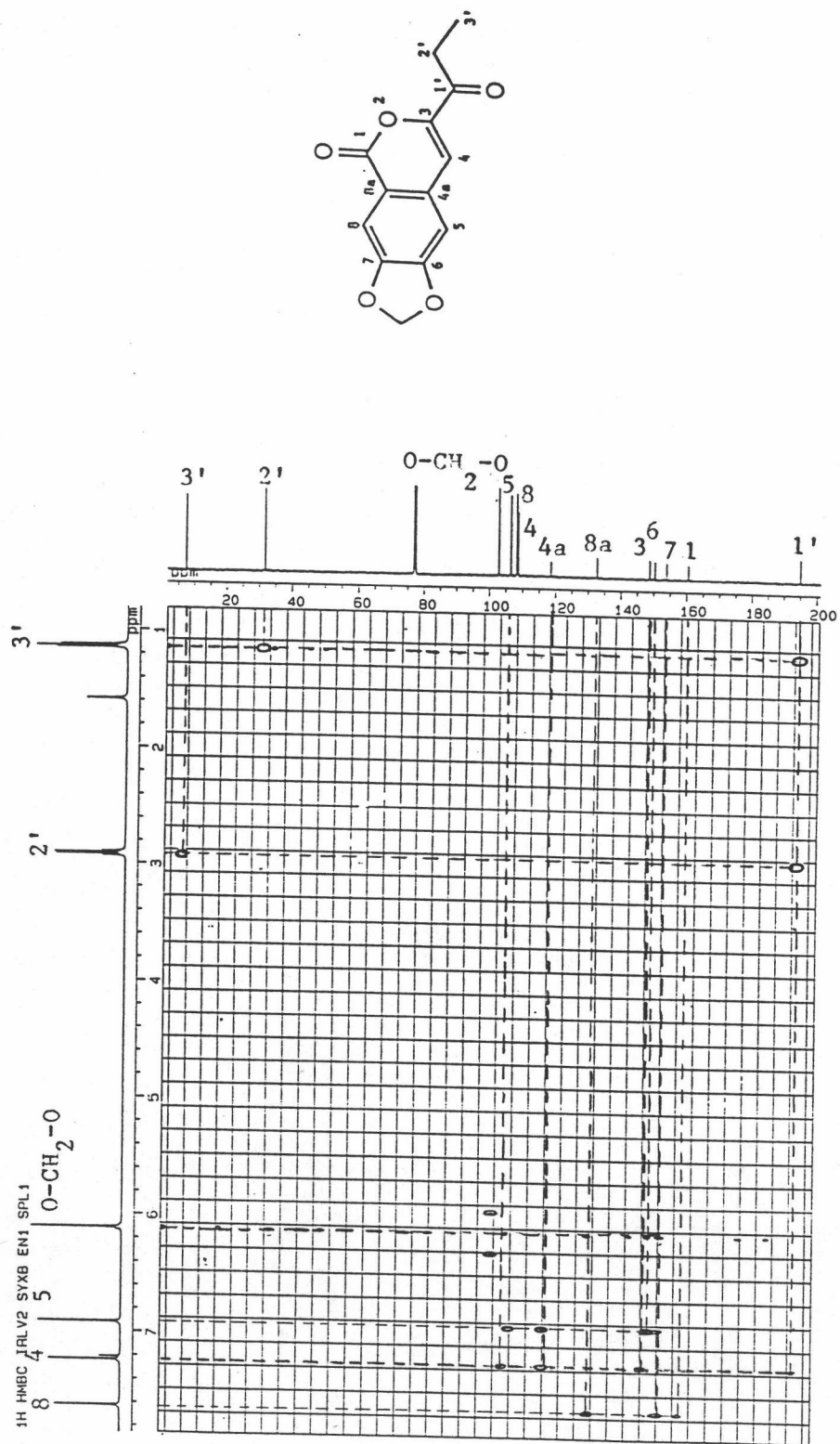


Figure 56 HMBC spectrum of XI-6

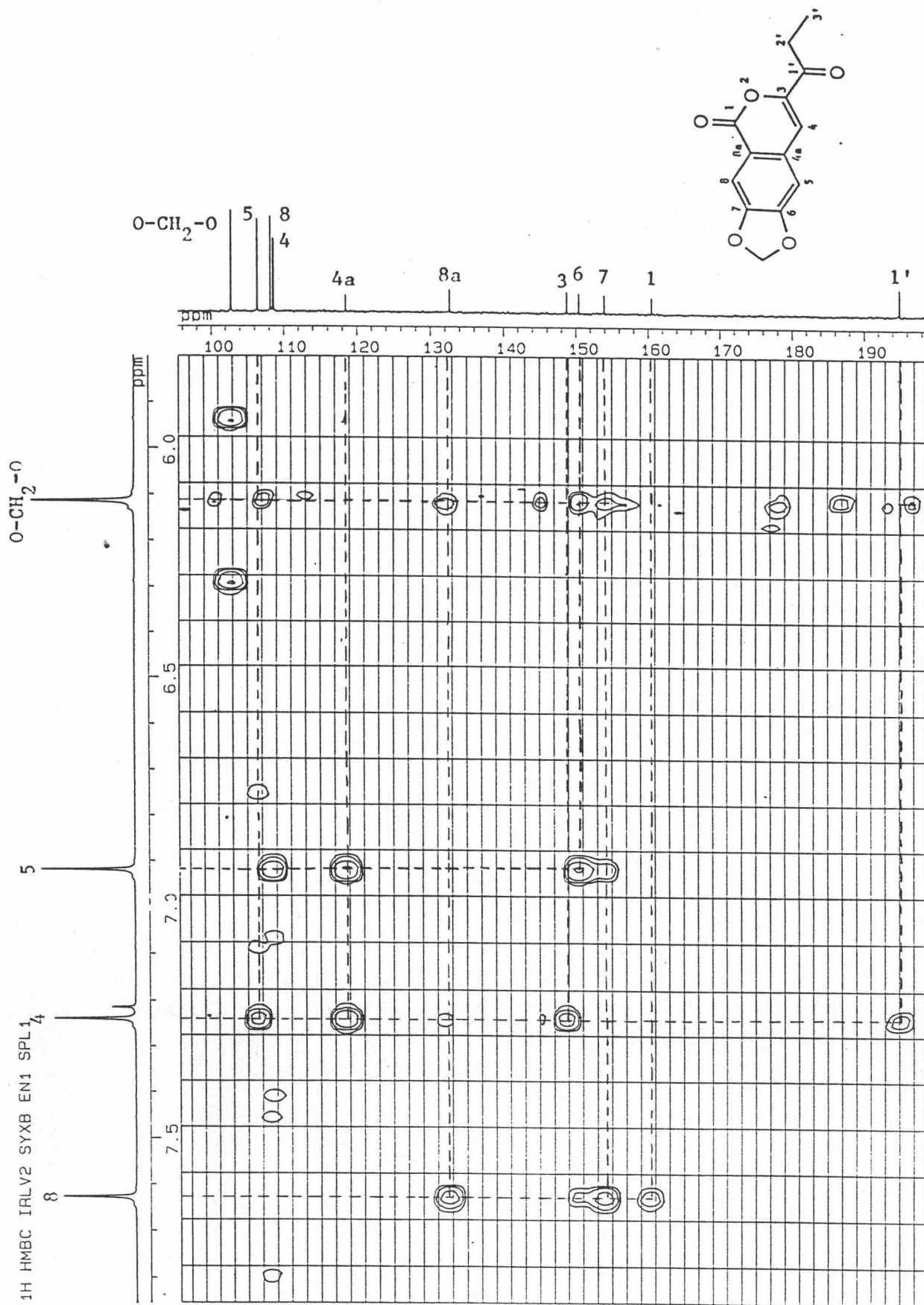


Figure 57 Expansion of HMBC spectrum of XI-6

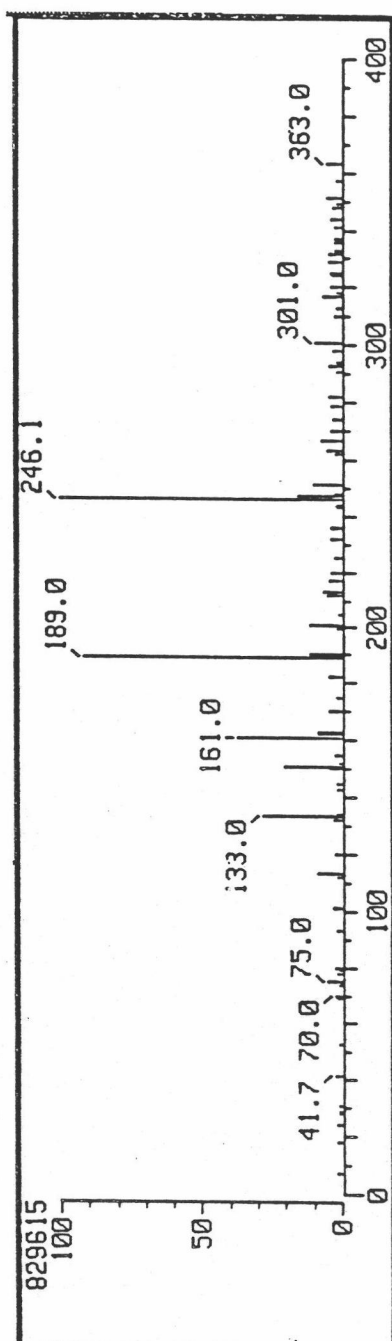
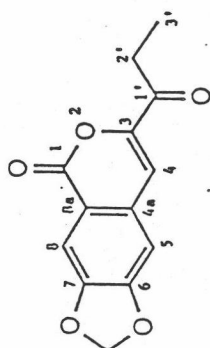


Figure 58 HREIMS spectrum of XI-6

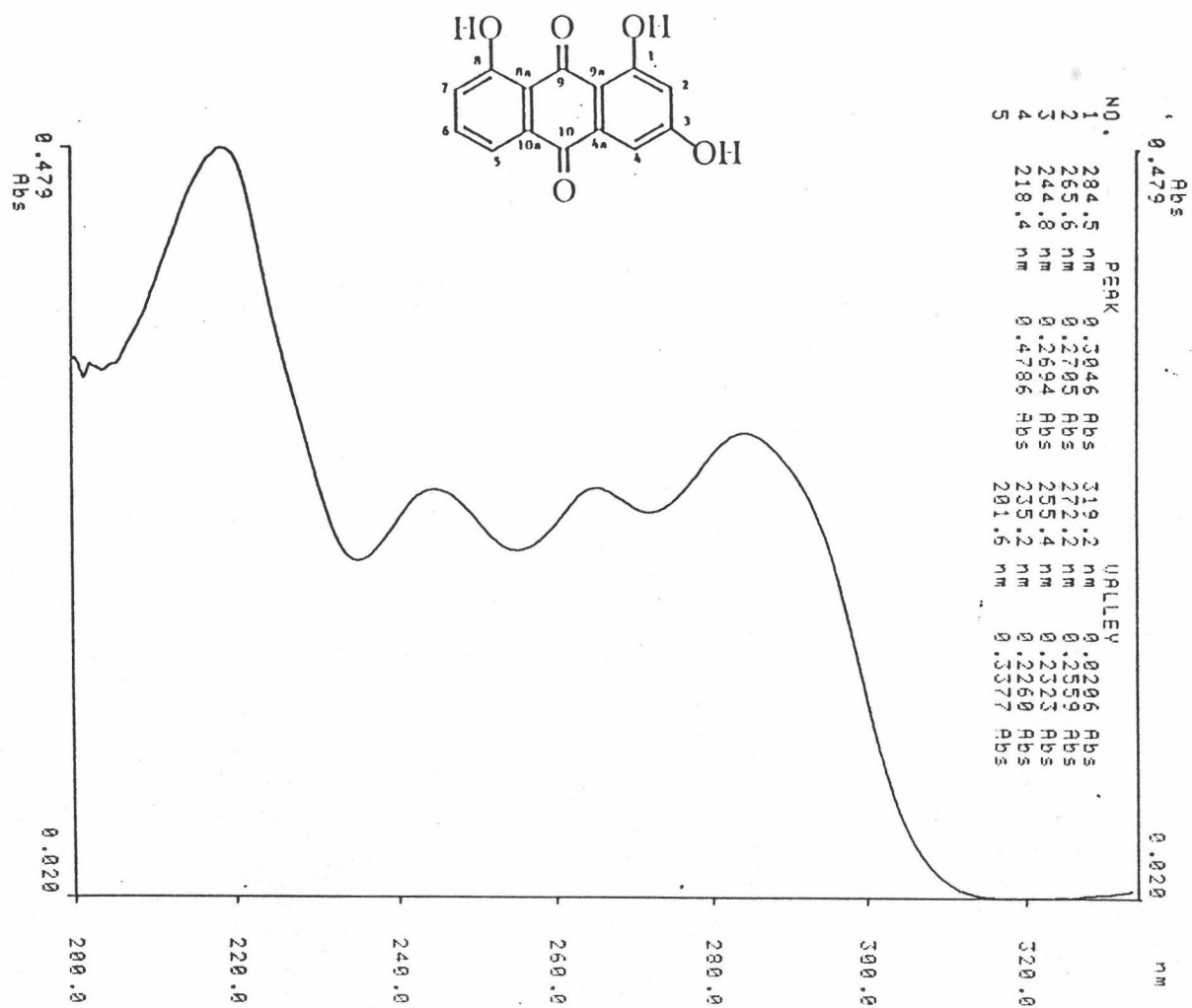


Figure 59 Ultraviolet absorption spectrum of XI-7

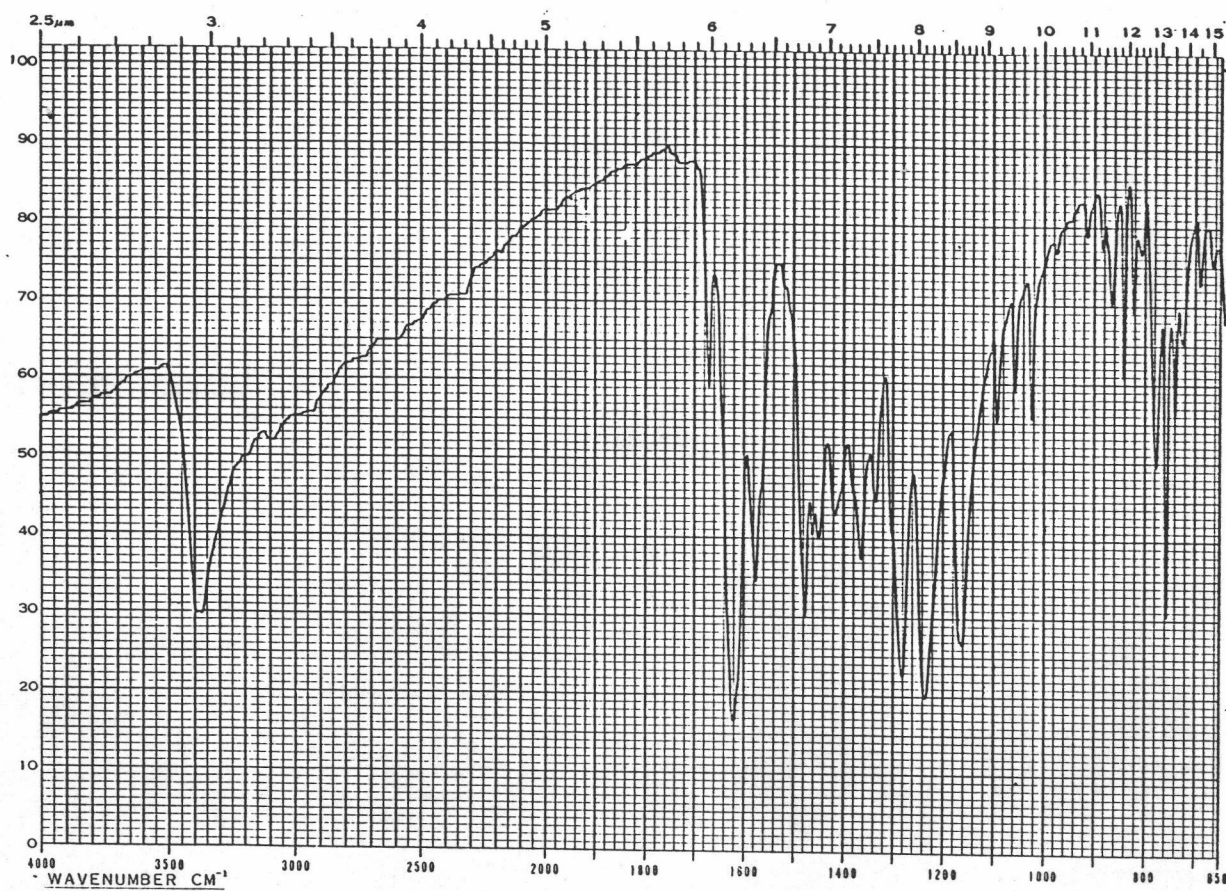
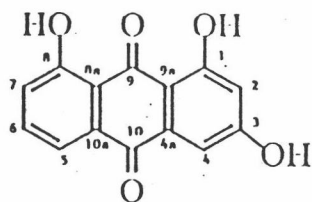
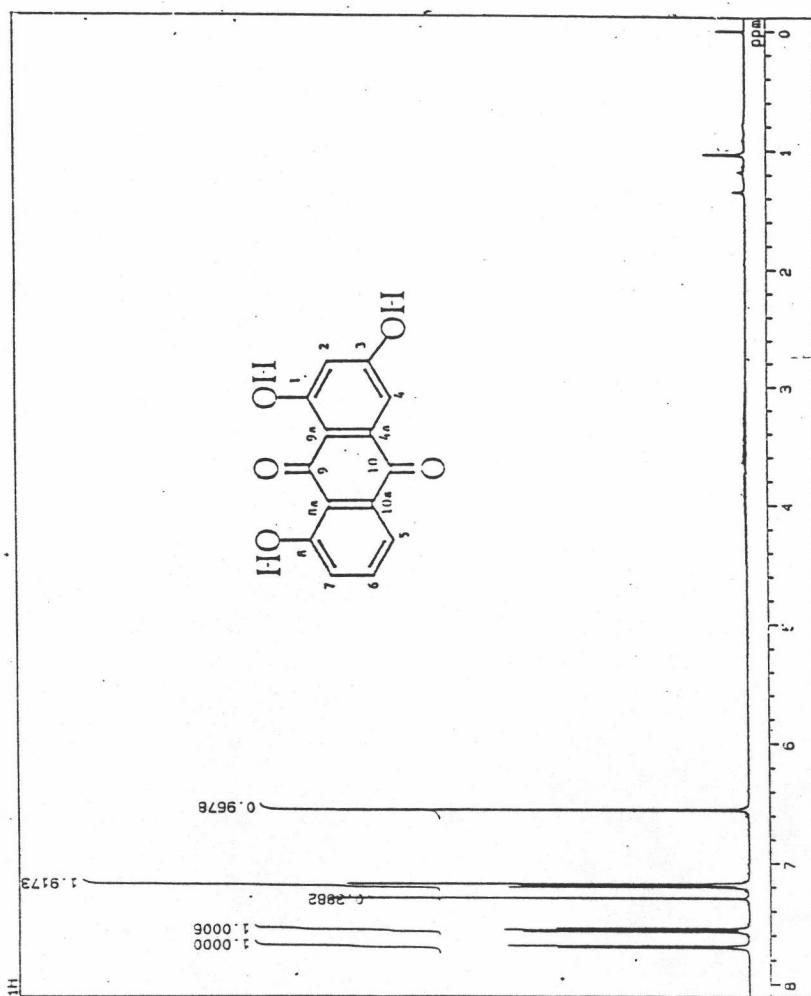
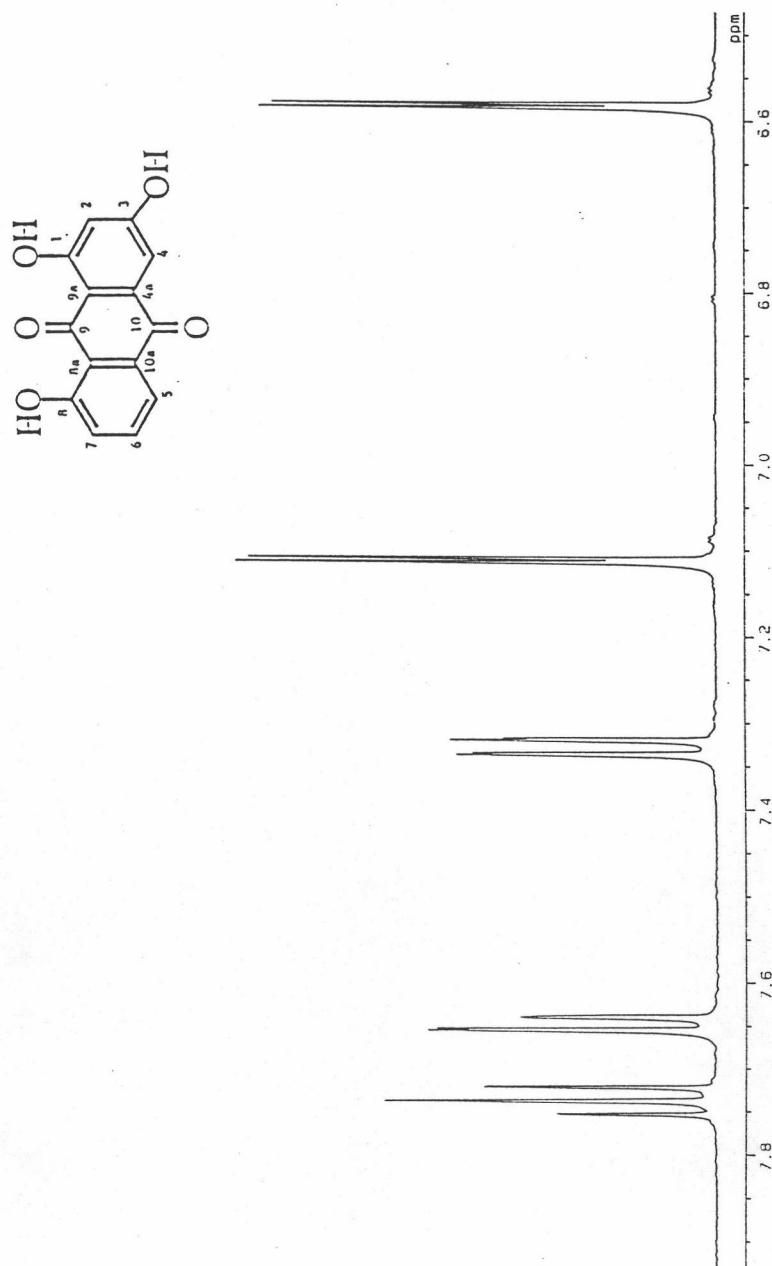


Figure 60 Infrared absorption spectrum of XI-7

Figure 61 $^1\text{H-NMR}$ spectrum of XI-7

Figure 62 Expansion of $^1\text{H-NMR}$ spectrum of XI-7

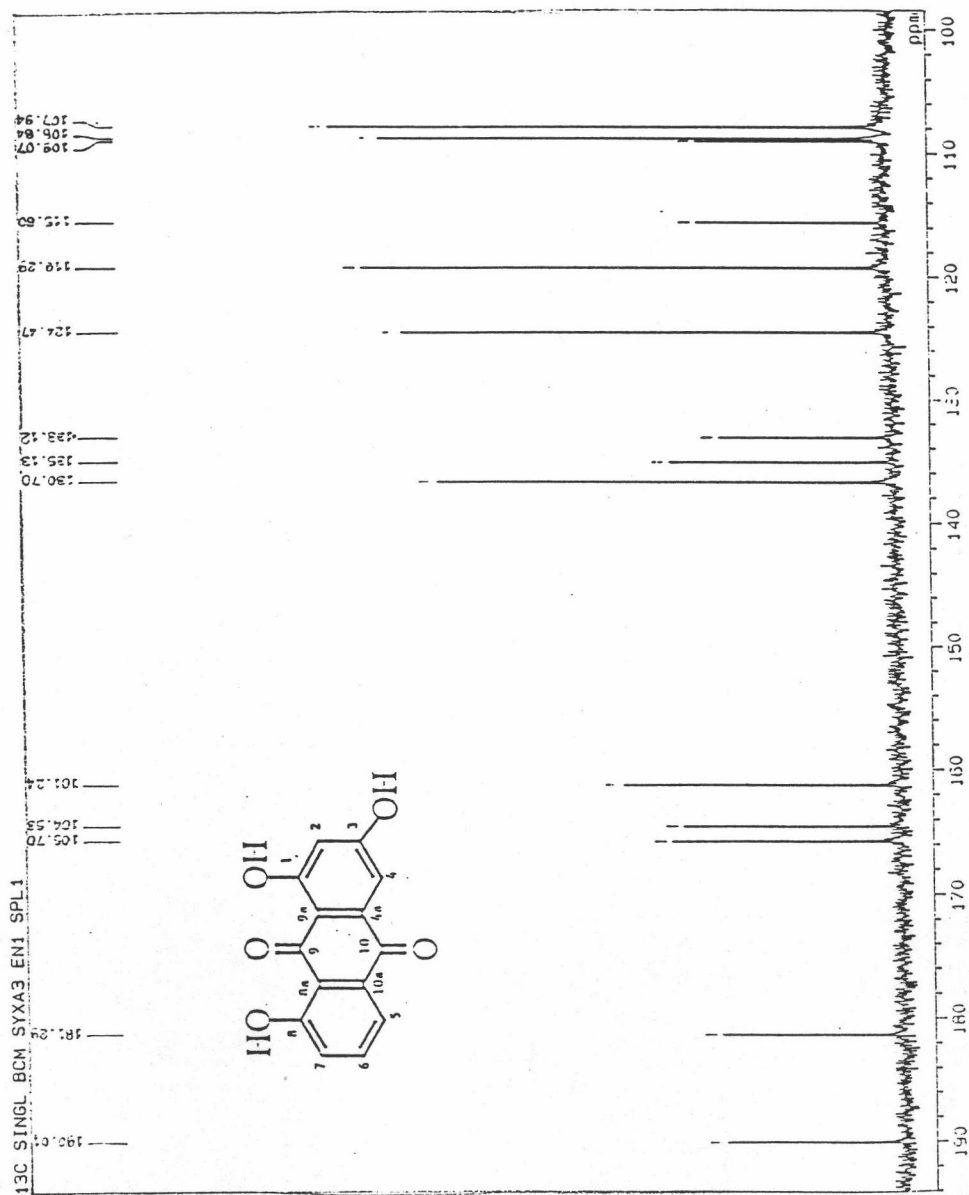
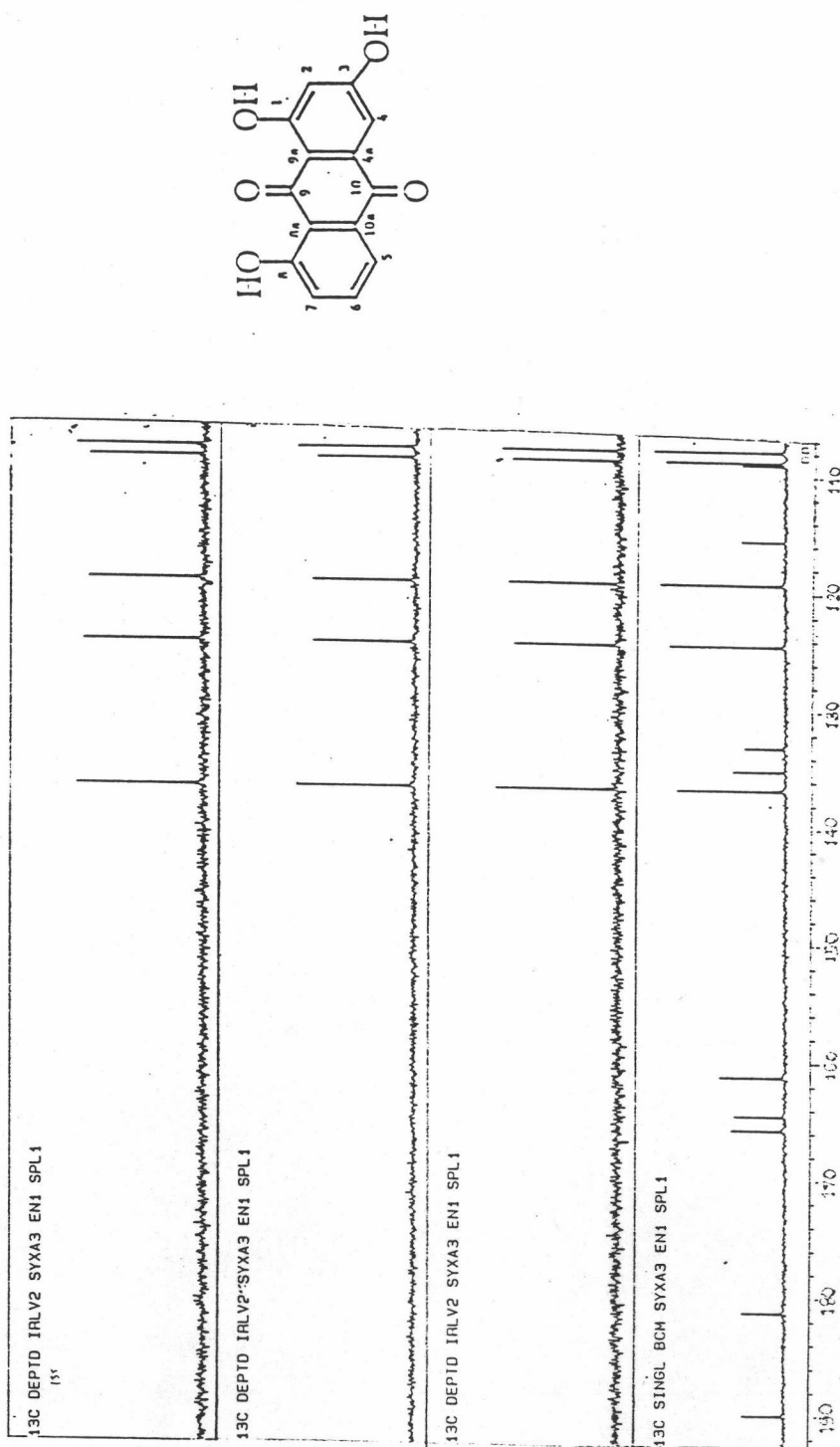


Figure 63 ¹³C-NMR spectrum of XI-7

Figure 64 ^{13}C -NMR spectrum of XI-7 (DEPT)

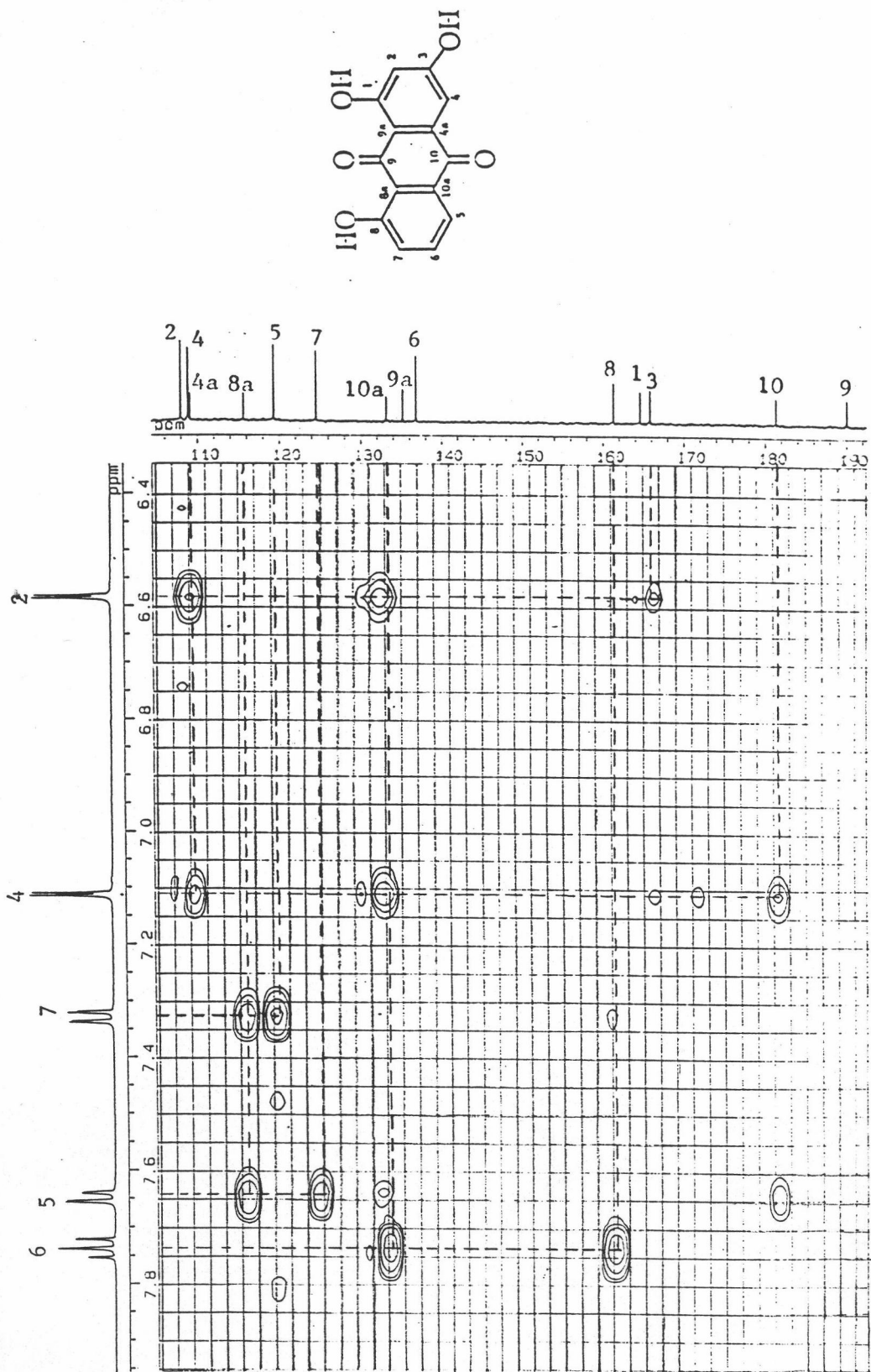


Figure 65 HMBC spectrum of XI-7

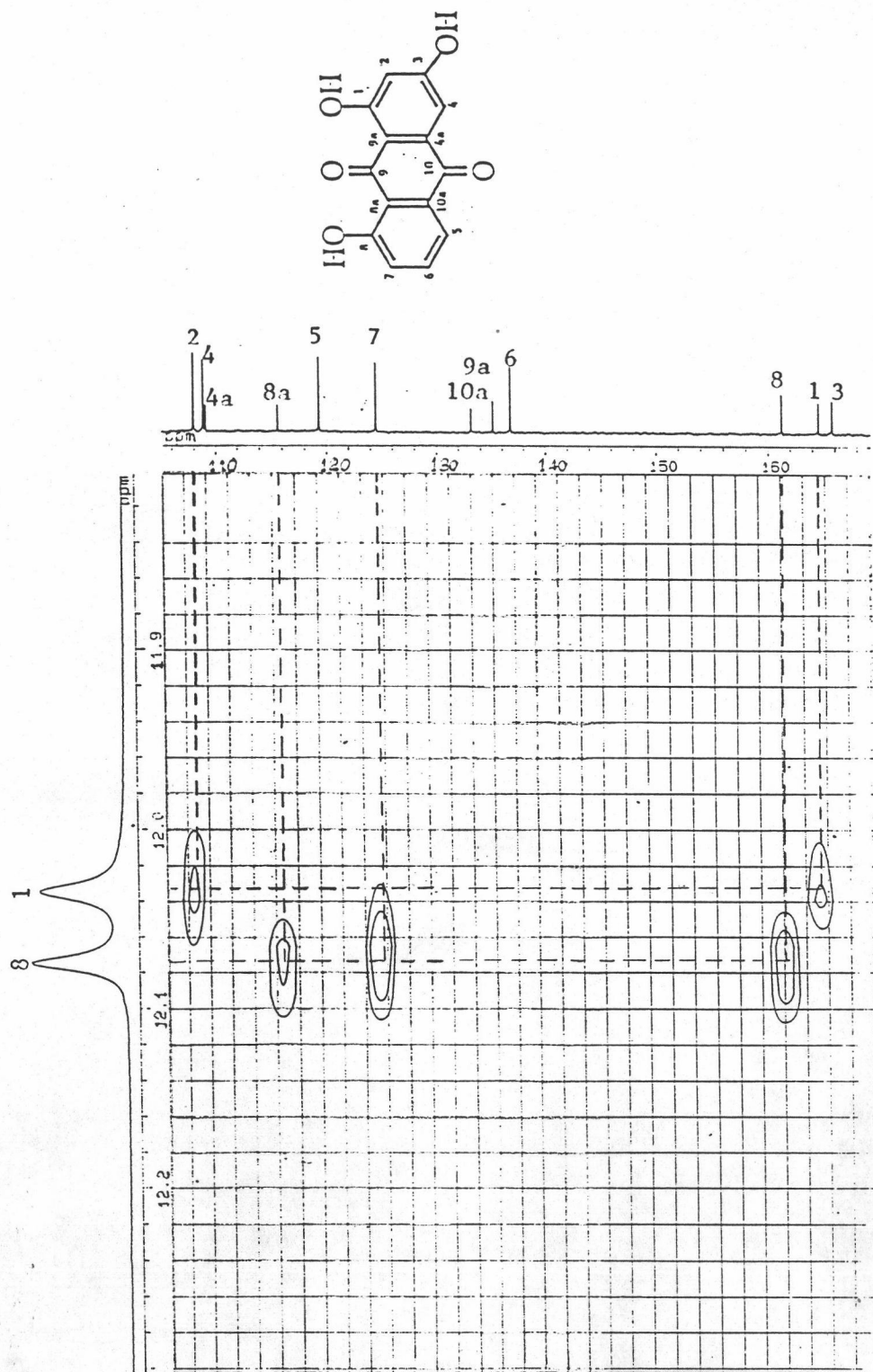


Figure 66 Expansion of HMB spectrum of XI-7

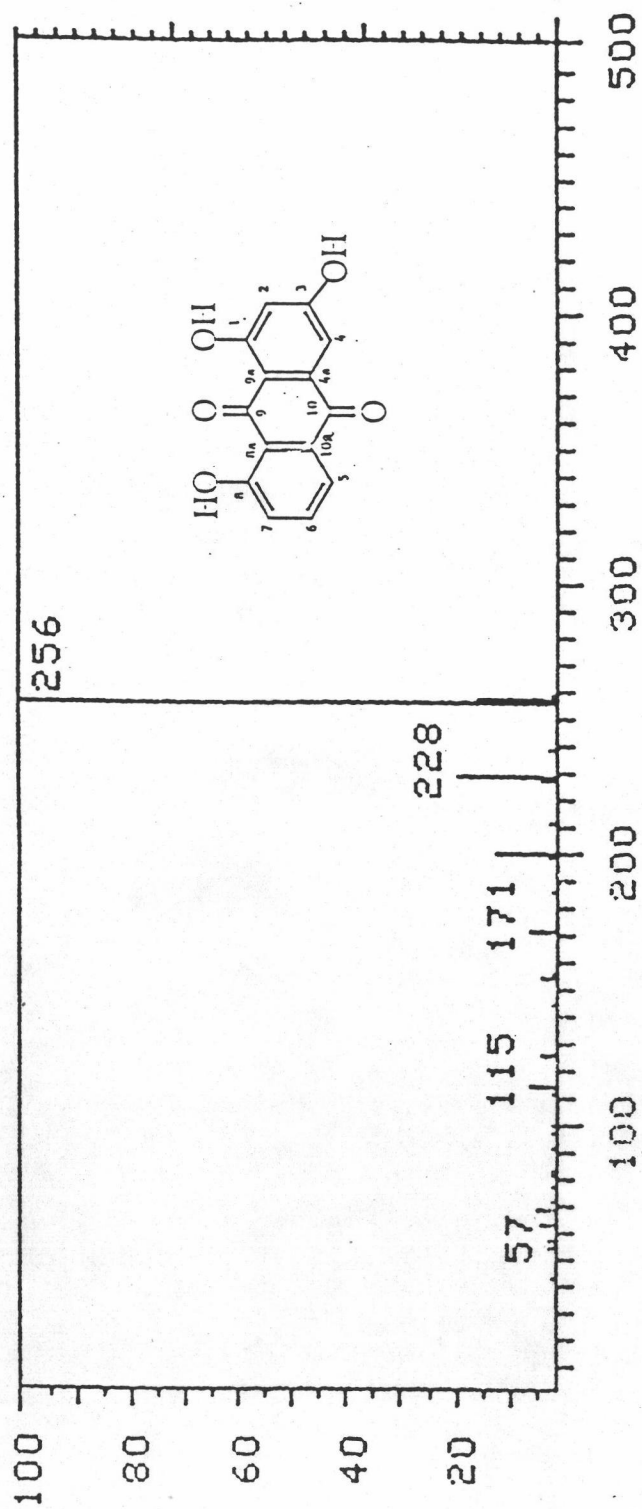


Figure 67 HREIMS spectrum of XI-7



VITA

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