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## APPENDICES

### Pesticides

- P1** = Advantage, active ingredient: naturally chemical substances from *Azadirachta indica* var. *siamensis* Valenton., *Alpinia nigra* (Gaertn.) B.L. Burtt and *Cymbopogon nardus* (Linn.) Rendle
- P2** = Carbosulfane, active ingredient: 2,3-dihydro-2,2-dimethylbenzofuran-7-yl-(dibutylaminothio)-methylcarbamate
- P3** = Monocrotophos, active ingredient: dimethyl(E)-1-methyl-2-(methylcarbomoyl)-vinyl phosphate

### Herbicides

- H1** = Mets, active ingredient: methyl-2[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonylamino]-sulfonyl]-benzoate
- H2** = Diuron, active ingredient: [3-(3,4-dichlorophenyl)-1,1-dimethylurea]
- H3** = Broom, active ingredient: 5-bromo-3-*sec*-butyl-6-methyluracil
- H4** = Hexaz, active ingredient: 3-cyclohexyl-6-(dimethylamino)-1-methyl-1,3,5-triazine-2,4-(1*H*,3*H*)-dione

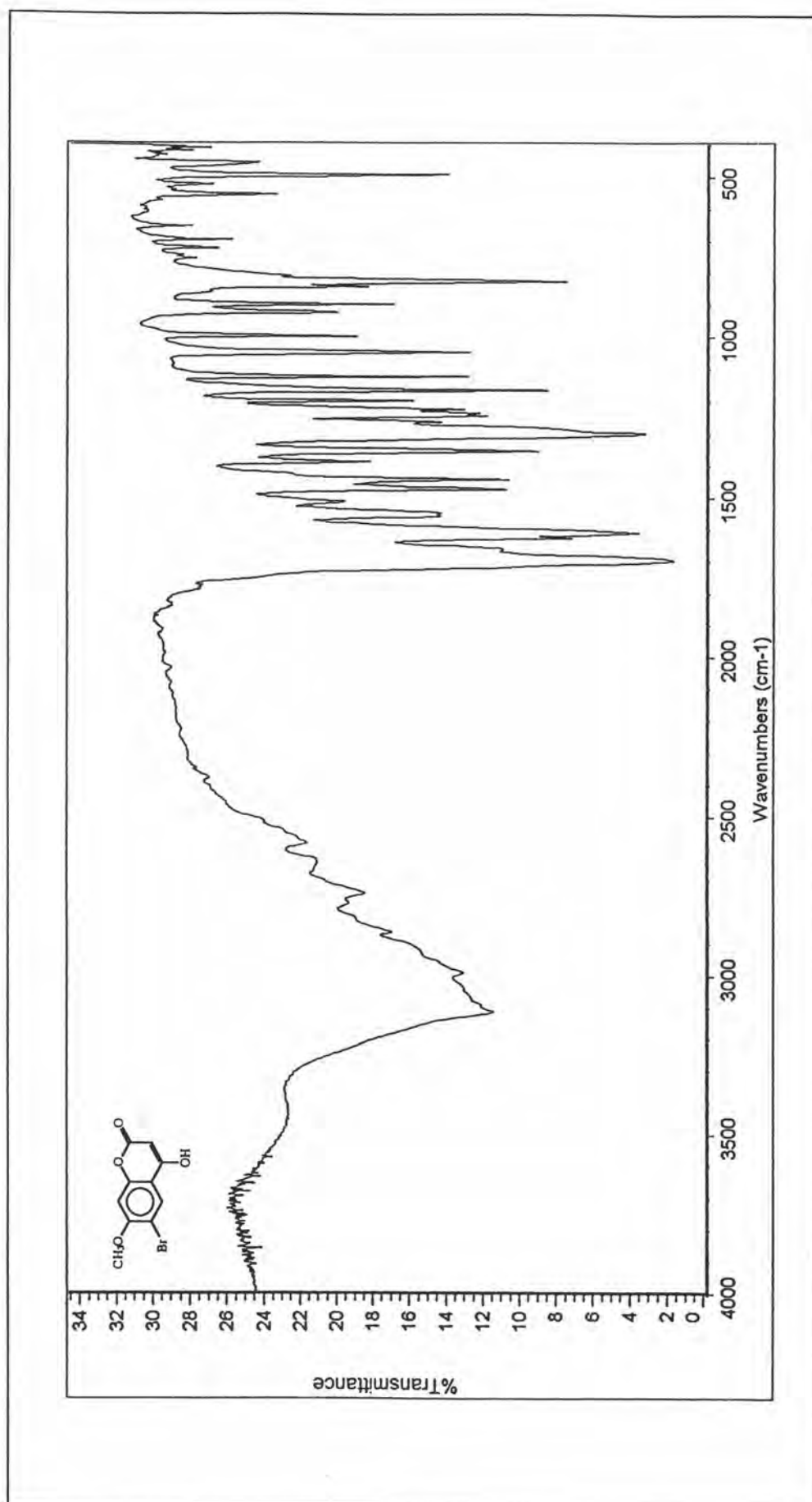
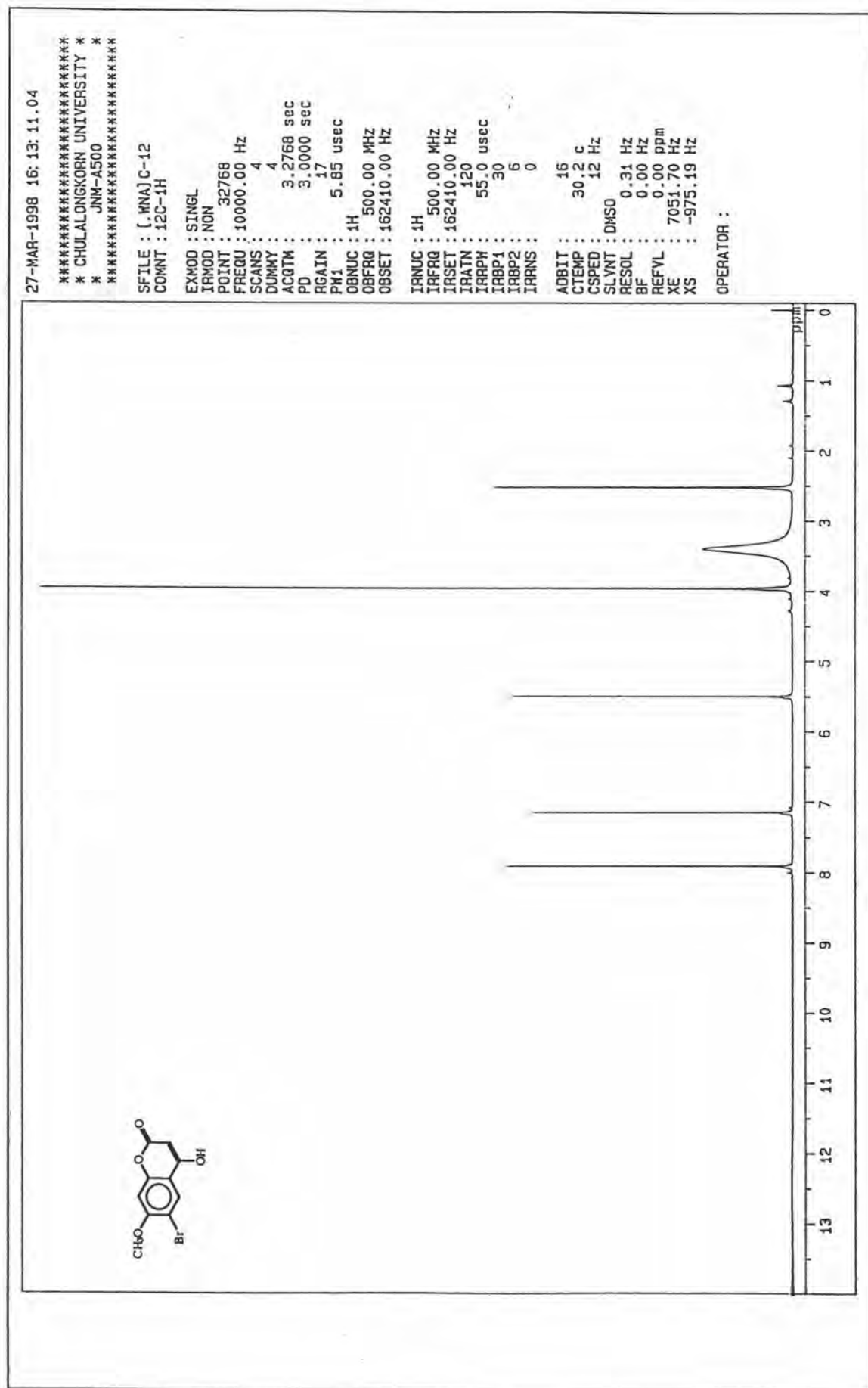
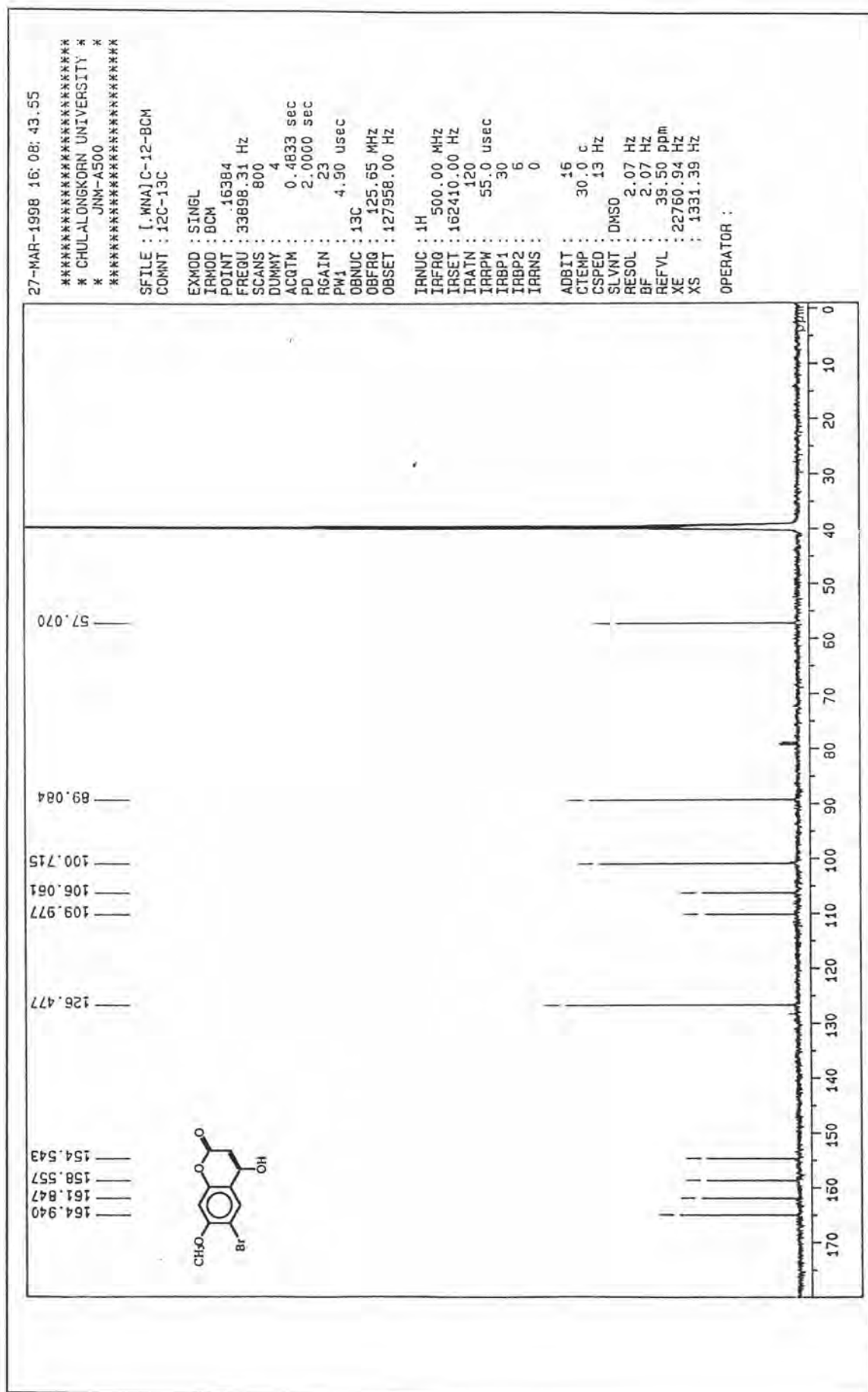


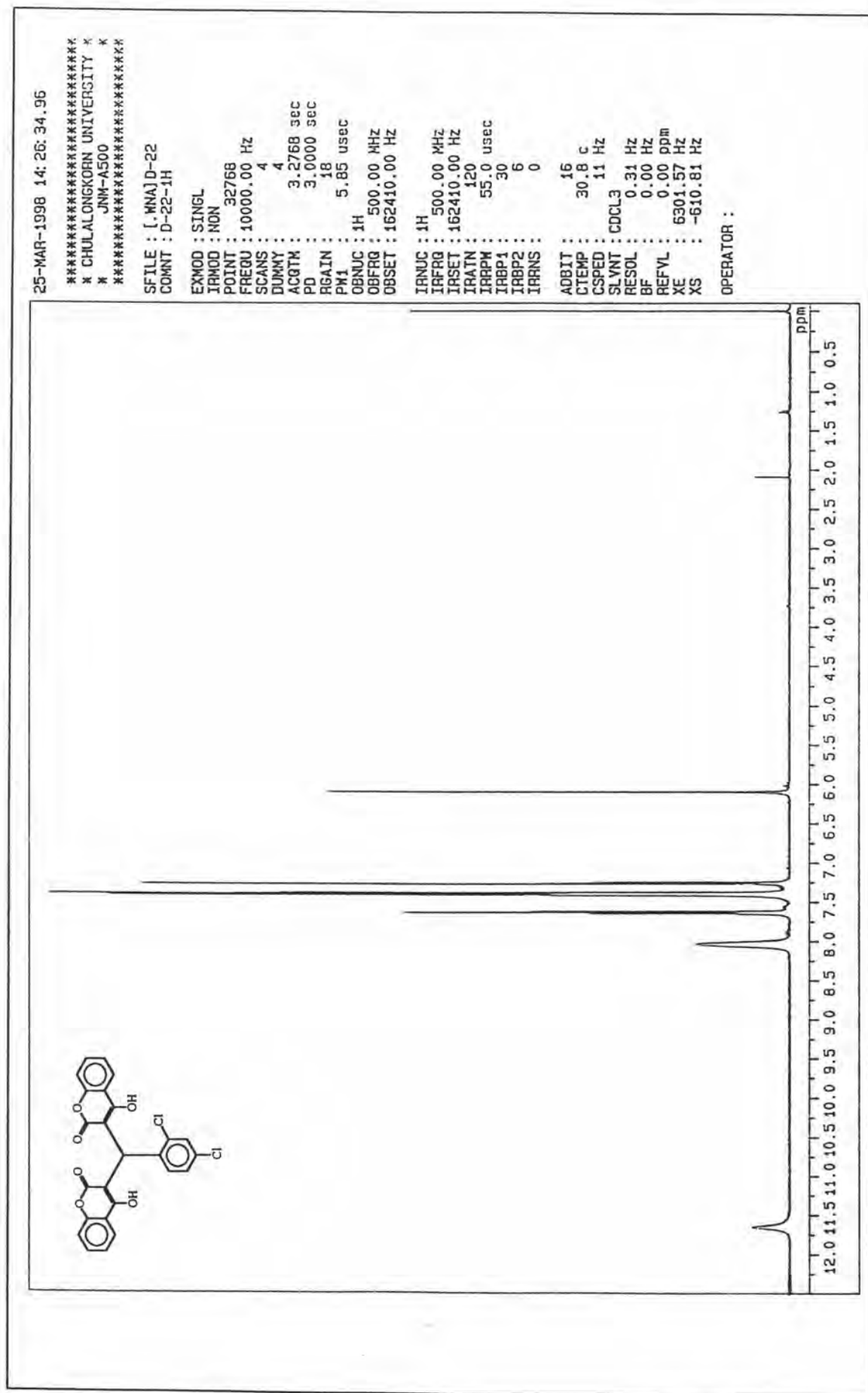
Fig 1 The FT-IR Spectrum of 8

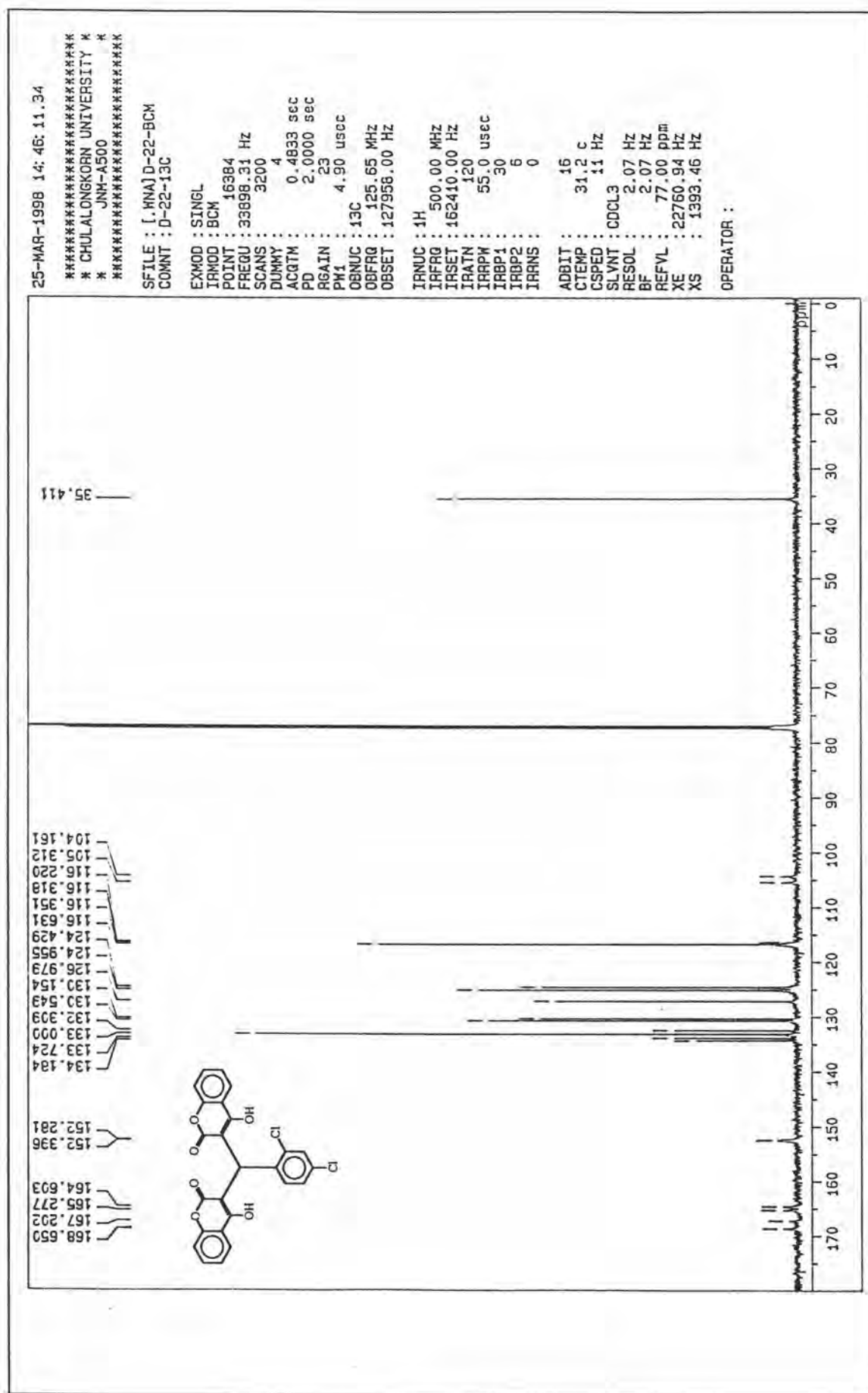
Fig 2 The <sup>1</sup>H-NMR Spectrum of 8

Fig 3 The <sup>13</sup>C-NMR Spectrum of 8





Fig 5 The <sup>1</sup>H-NMR Spectrum of D7

Fig 6 The <sup>13</sup>C-NMR Spectrum of D7

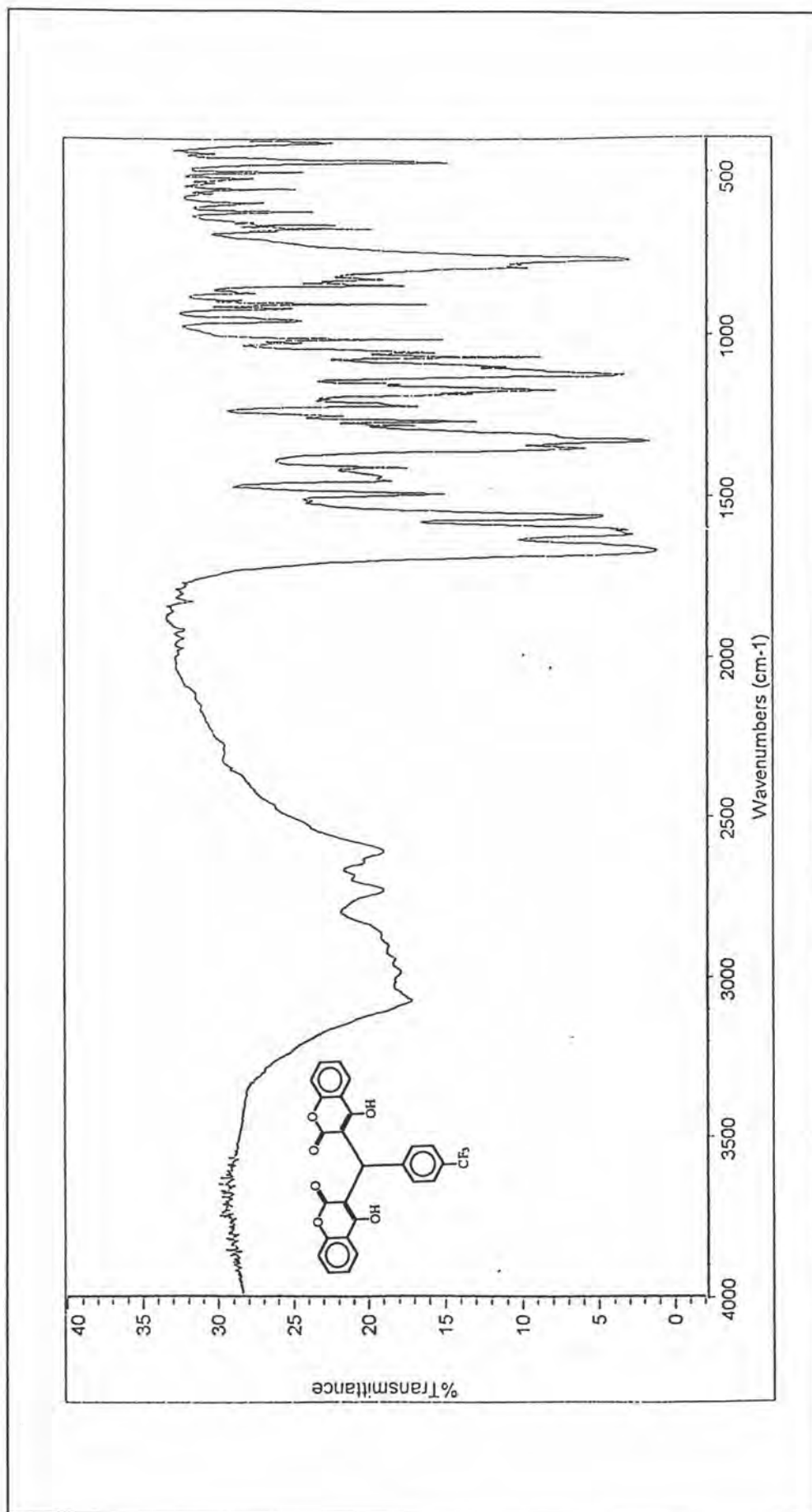
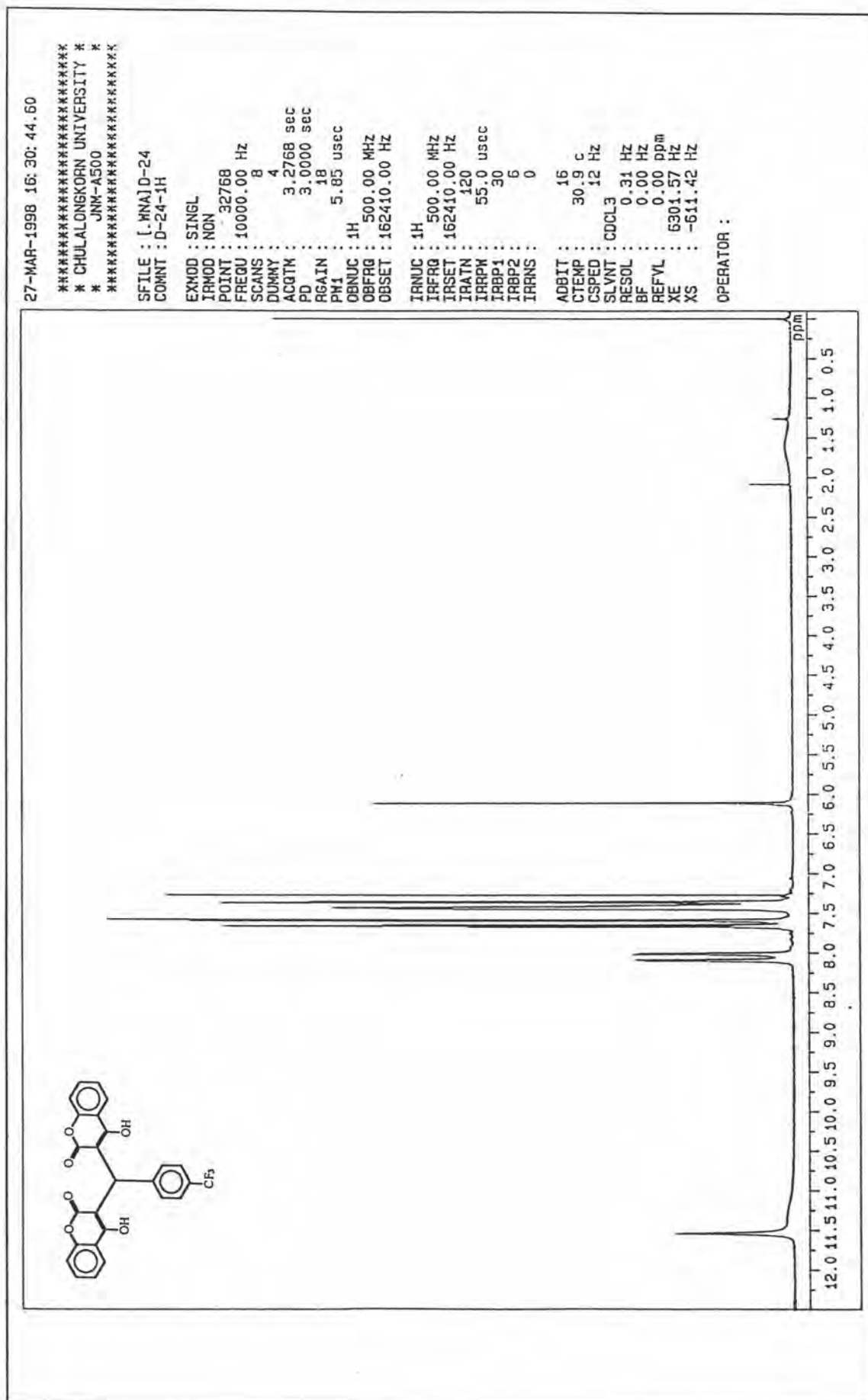


Fig 7 The FT-IR Spectrum of D11

Fig 8 The <sup>1</sup>H-NMR Spectrum of D11

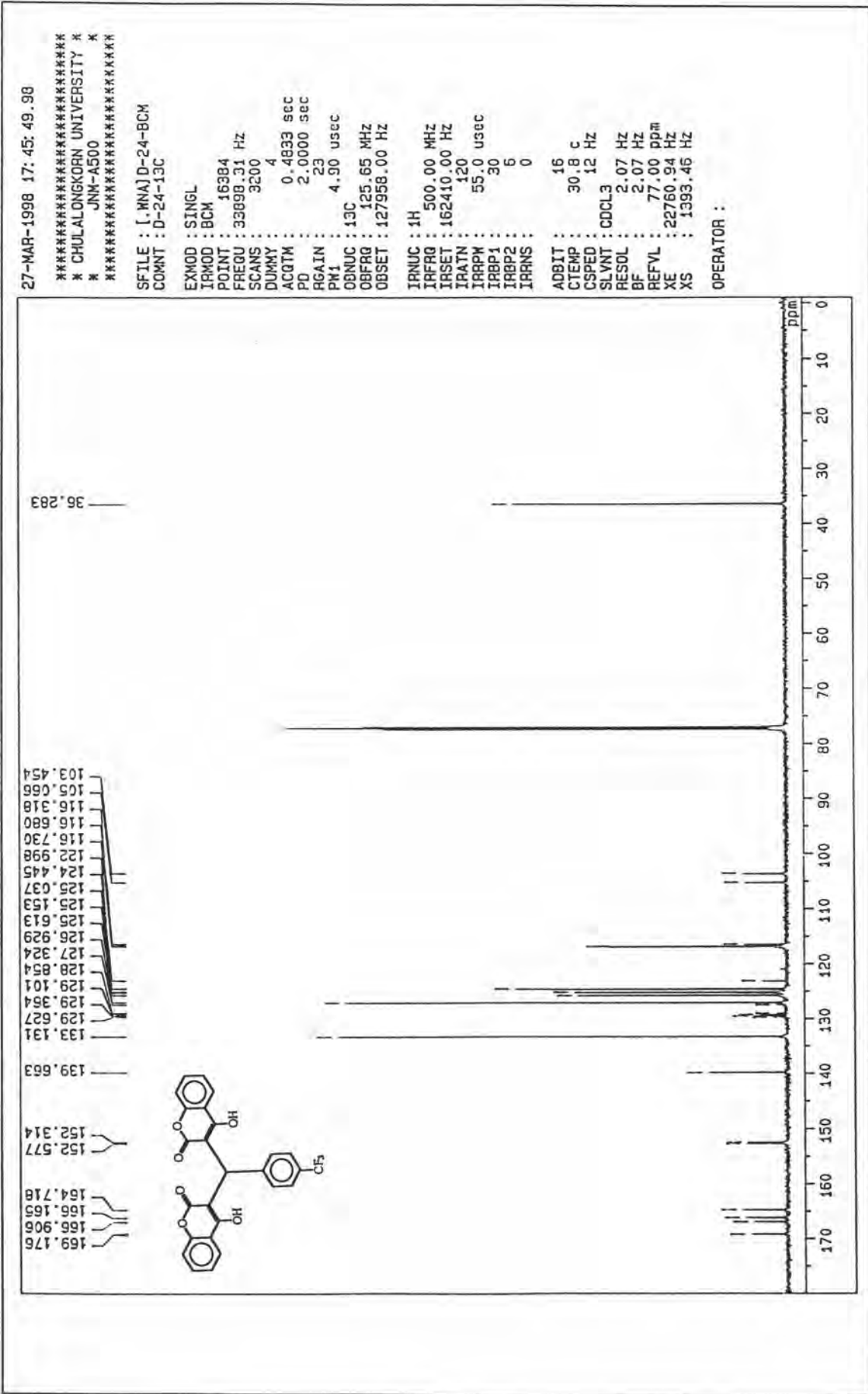


Fig 9 The <sup>13</sup>C-NMR Spectrum of D11

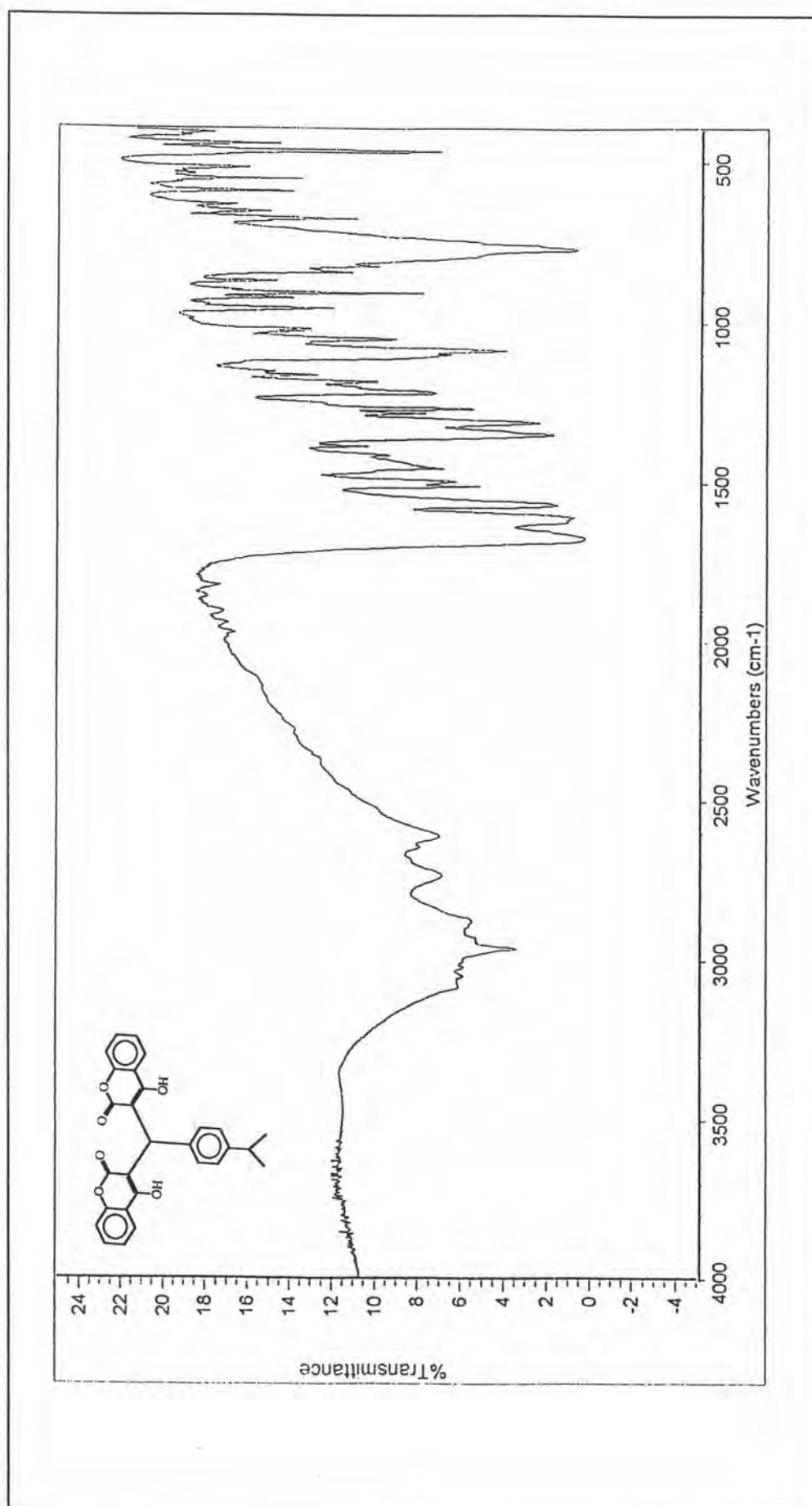
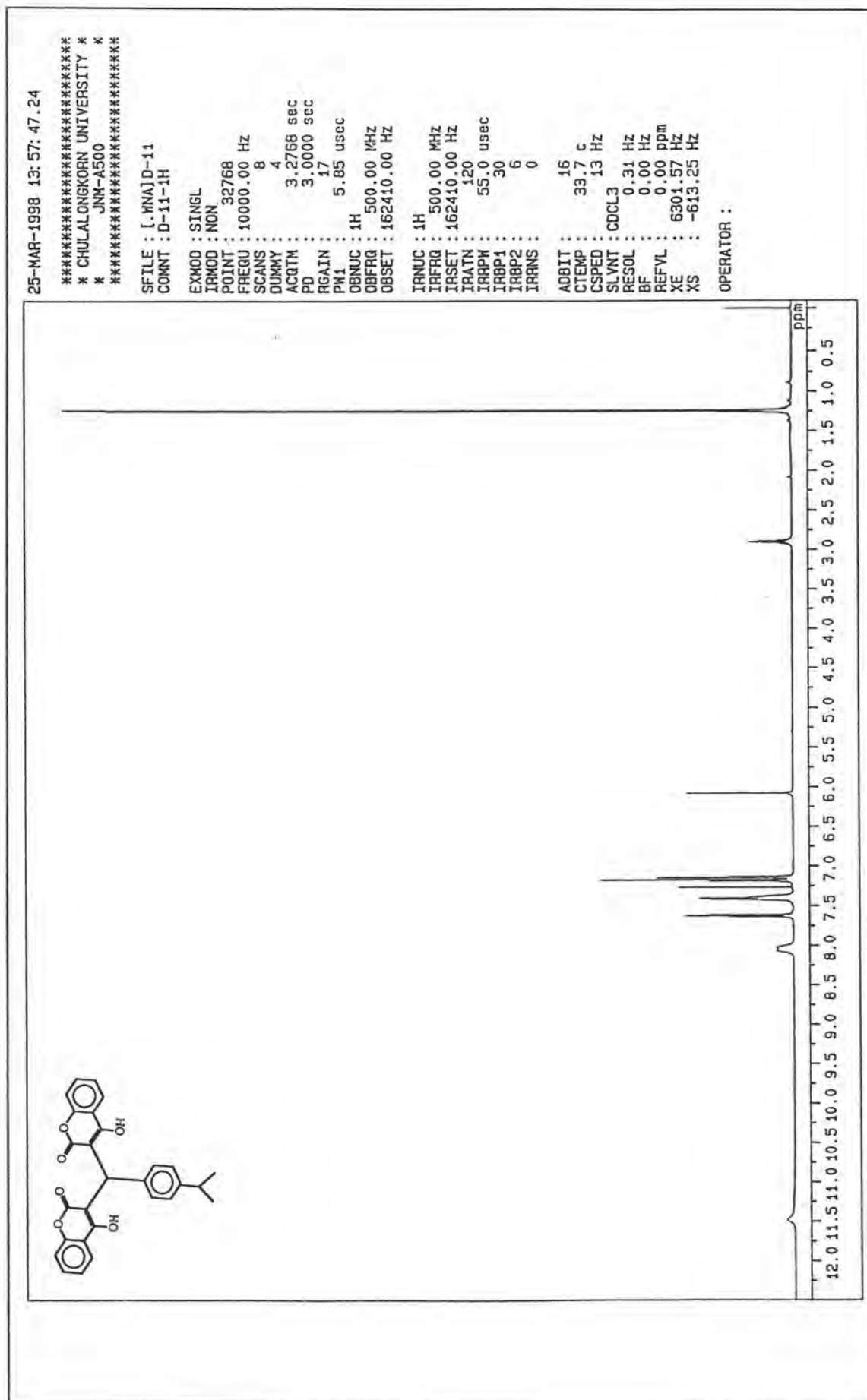
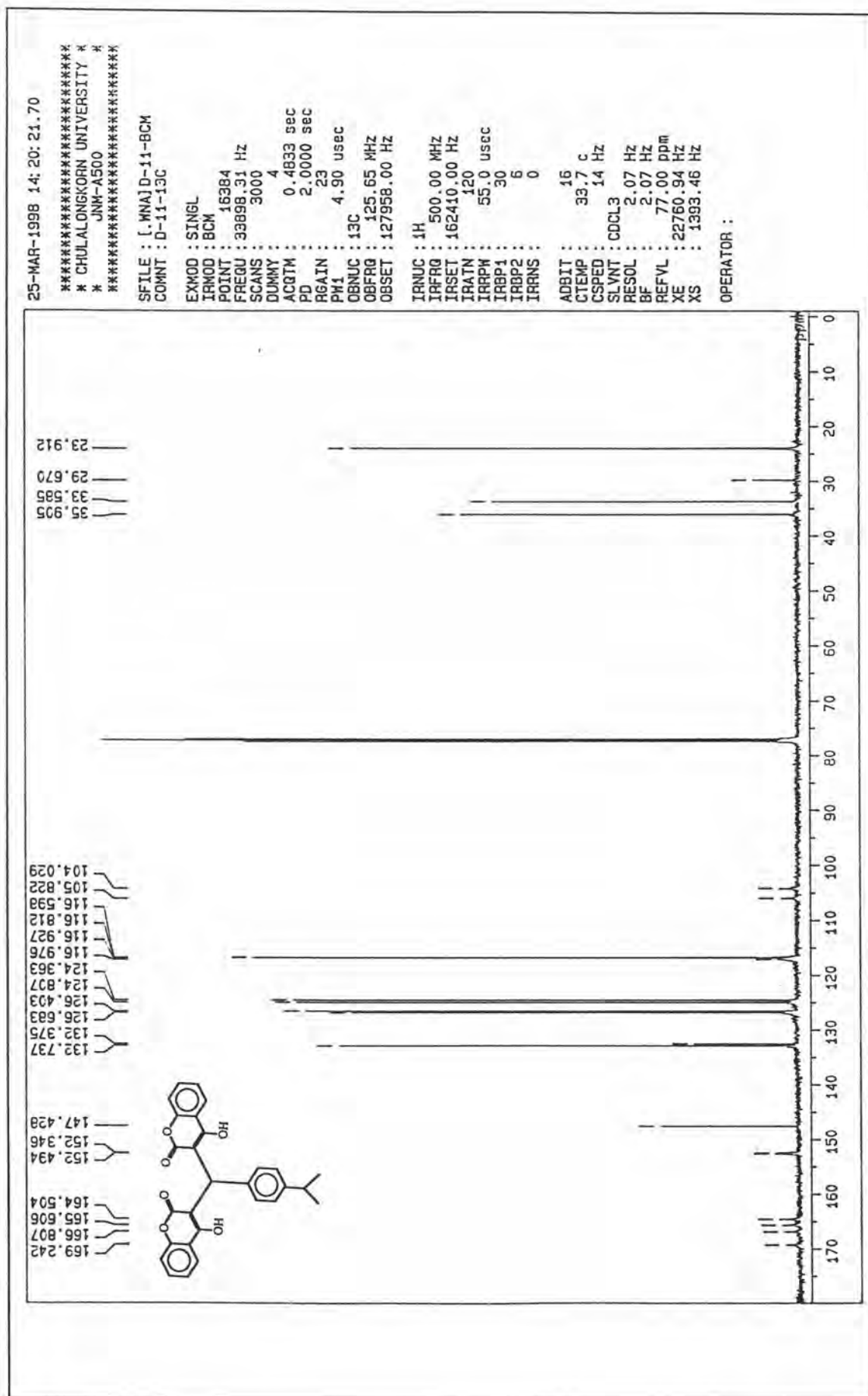
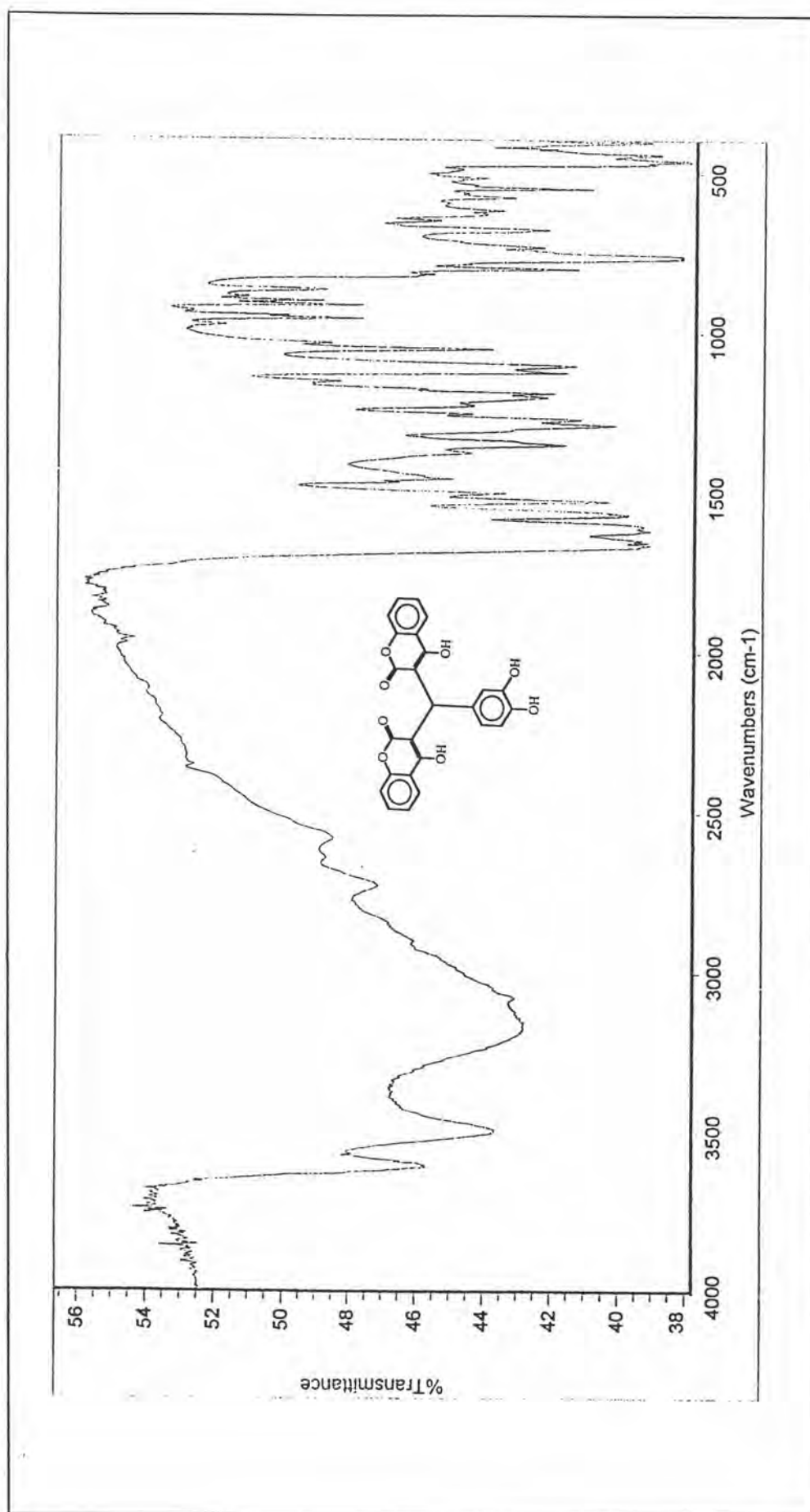


Fig 10 The FT-IR Spectrum of D13

Fig 11 The <sup>1</sup>H-NMR Spectrum of D13

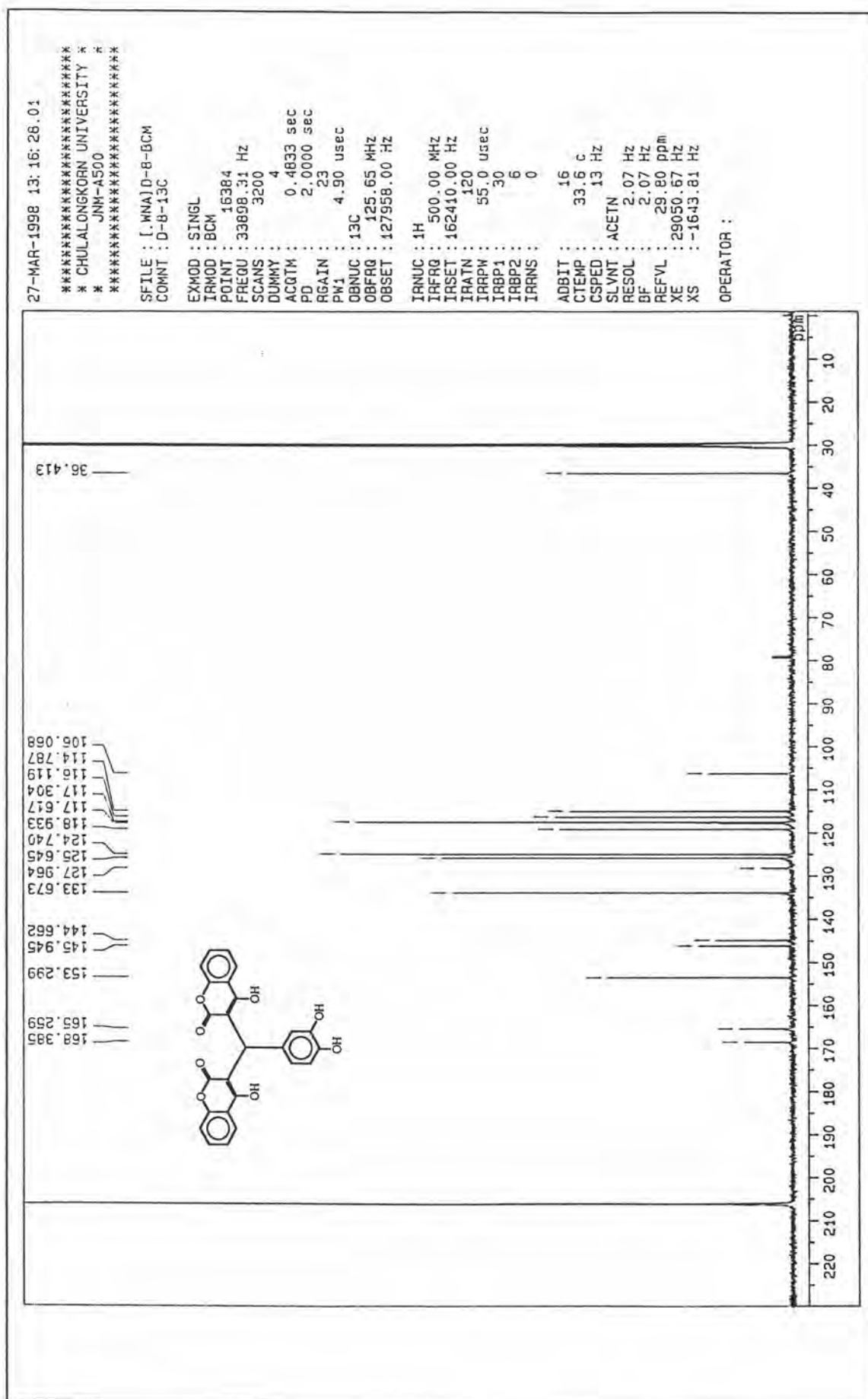


Fig 12 The  $^{13}\text{C}$ -NMR Spectrum of D13



**Fig 13** The FT-IR Spectrum of **D18**



Fig 15 The  $^{13}\text{C}$ -NMR Spectrum of D18

## VITA

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