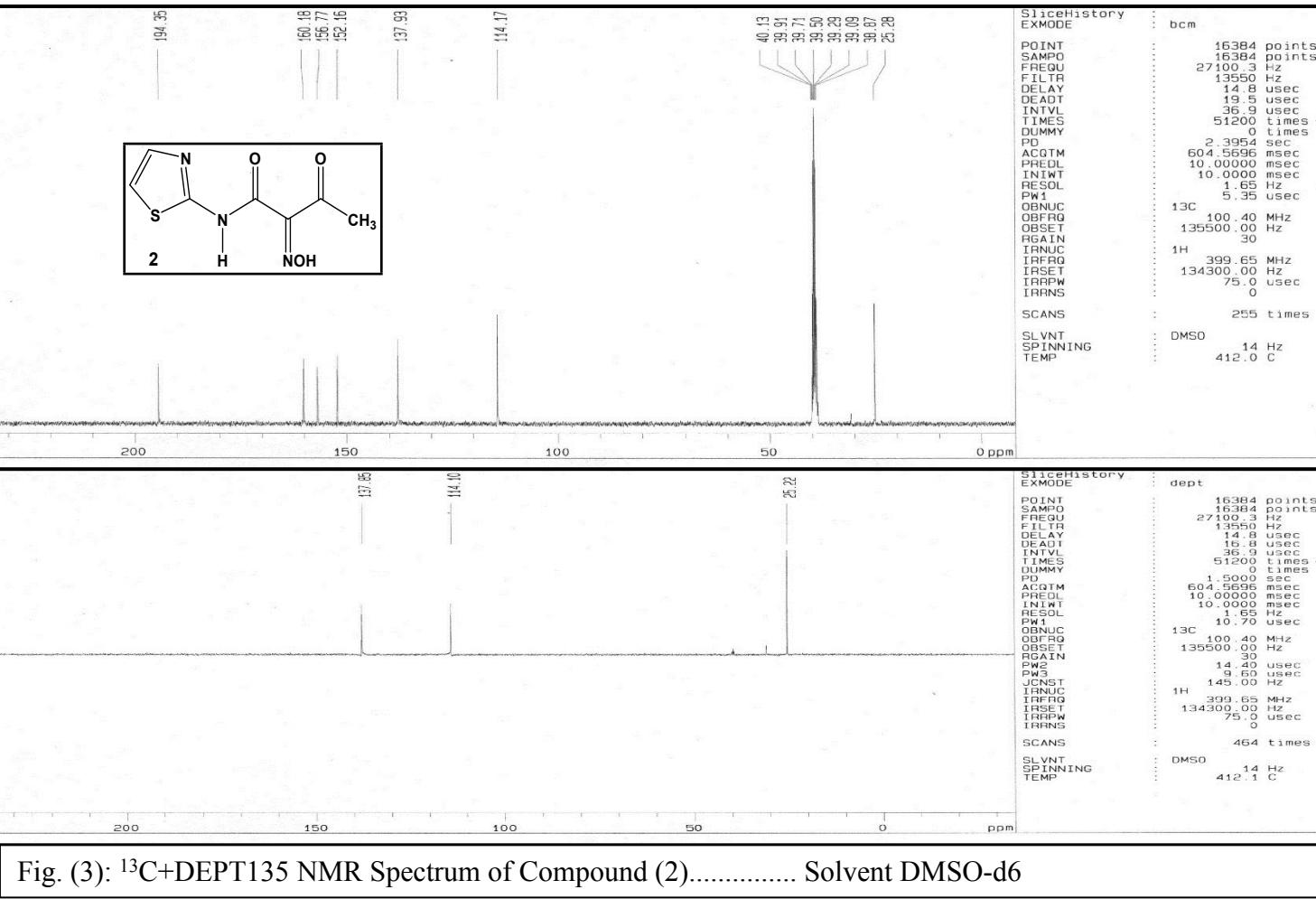


Fig. (2): ^1H -COSY NMR Spectrum of Compound (2)..... Solvent $\text{CDCl}_3\text{-d}1$



Scan: 6-595

R.T.: 6:02.264

Base: m/z 73; .8%FS TIC: 54668

#Ions: 234

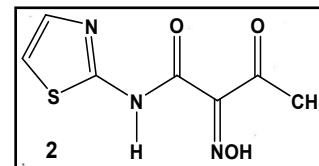
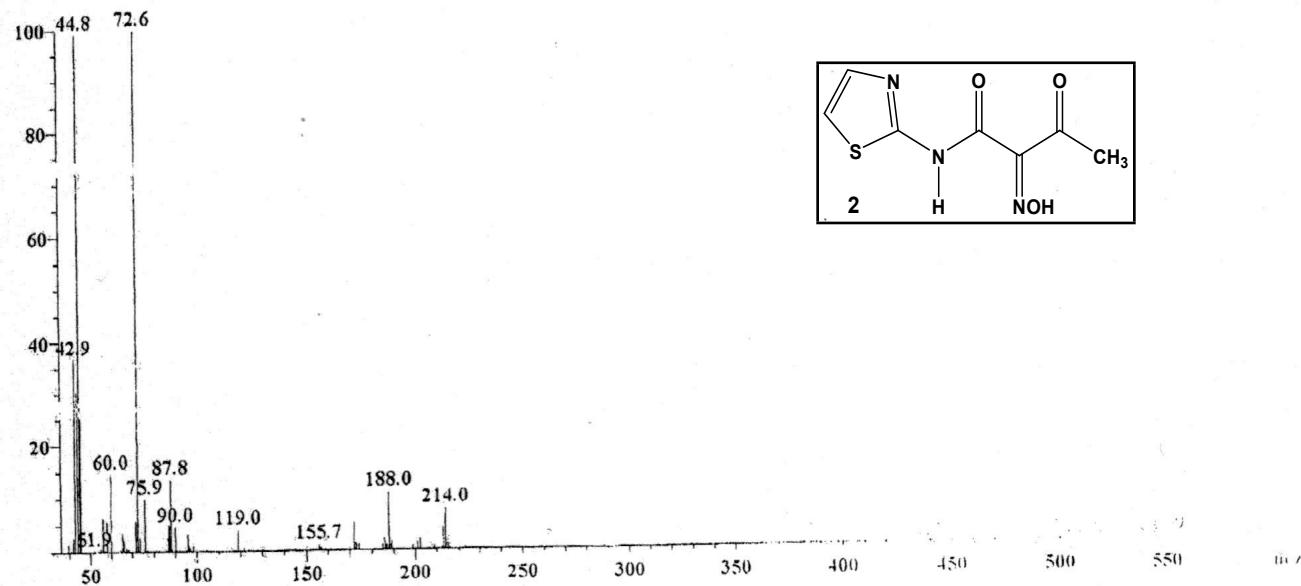


Fig. (4): MS Spectrum of Compound (2)..... Solvent DMSO-d6

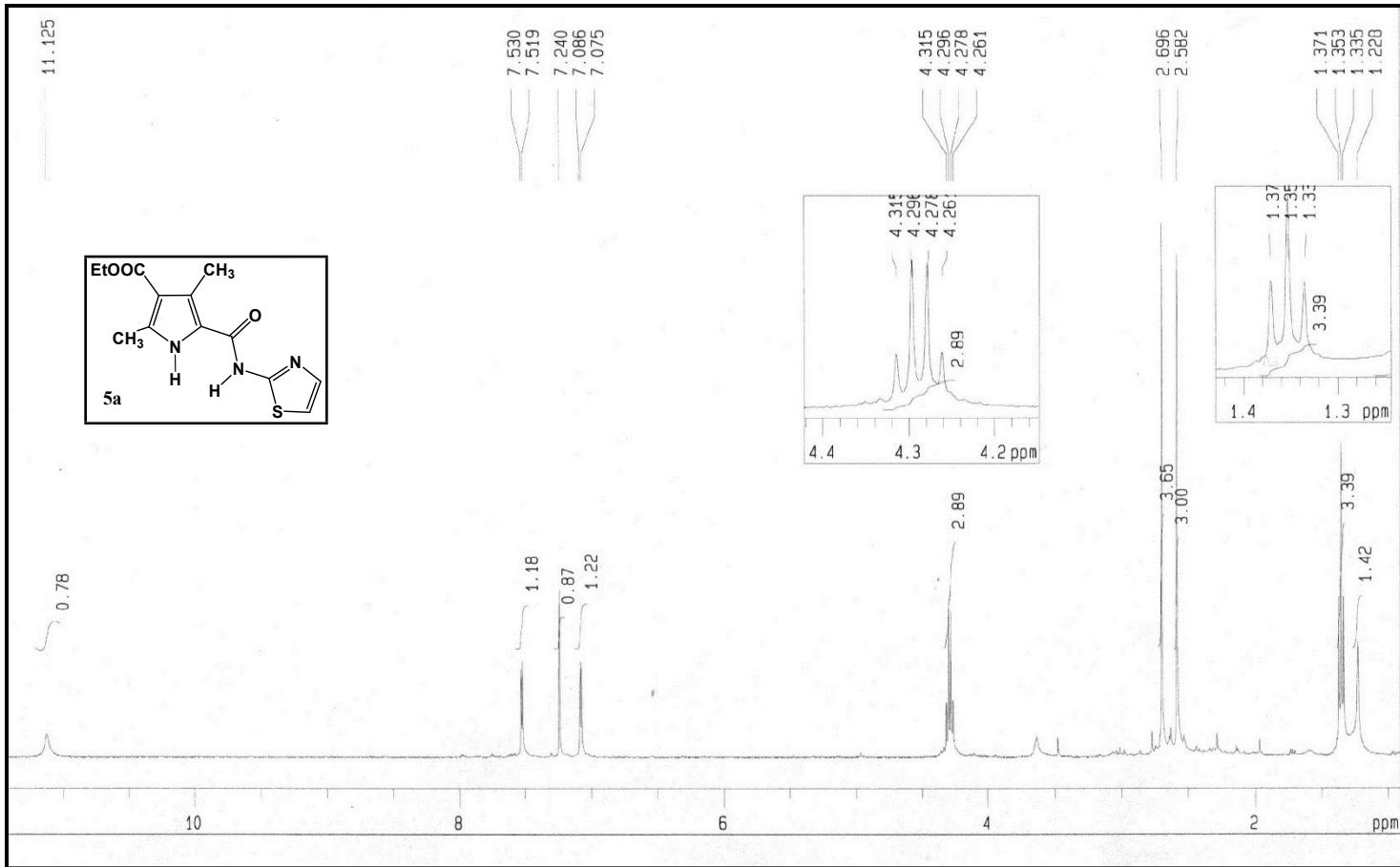
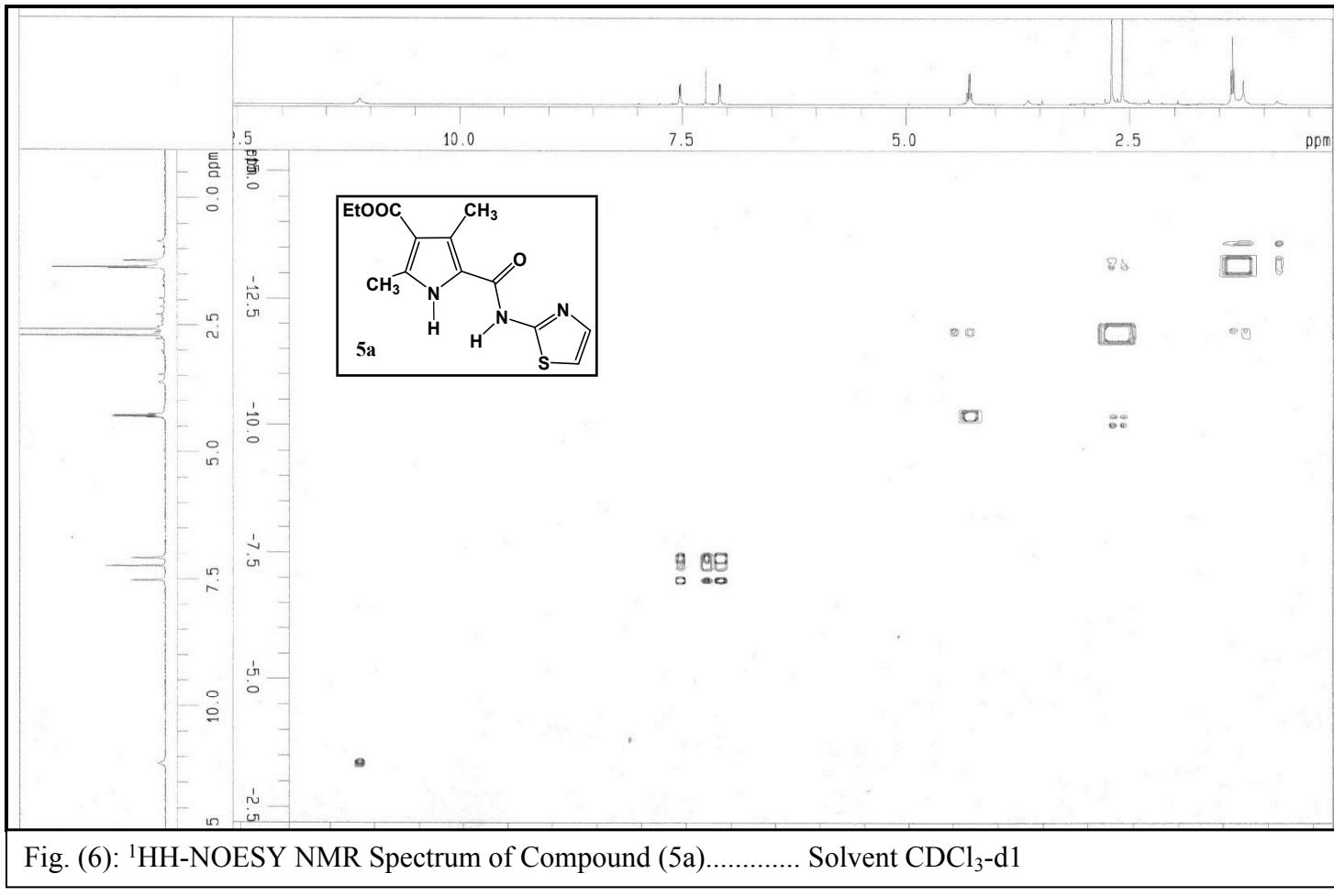


Fig. (5): ^1H NMR Spectrum of Compound (5a)..... Solvent $\text{CDCl}_3\text{-d}1$



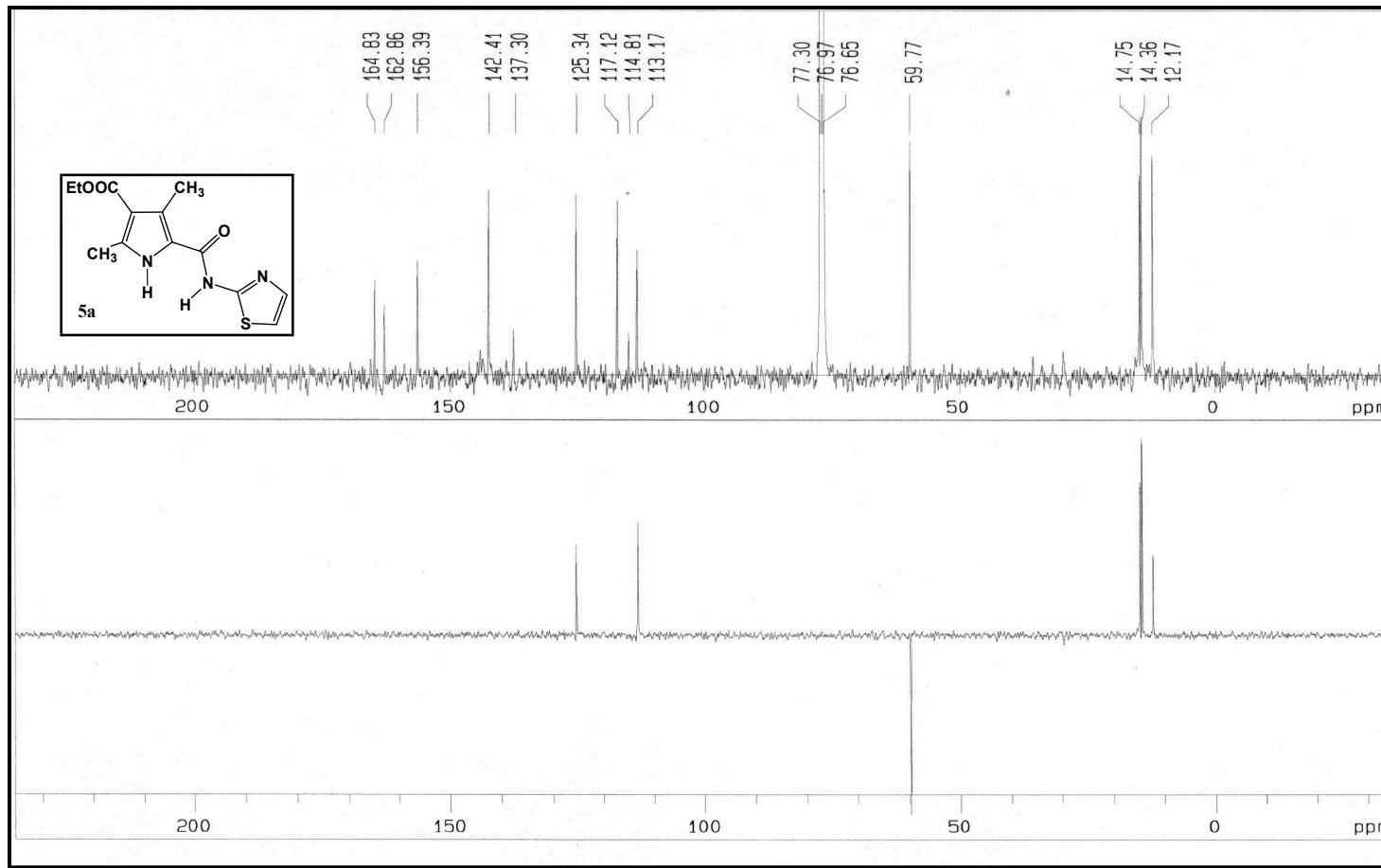
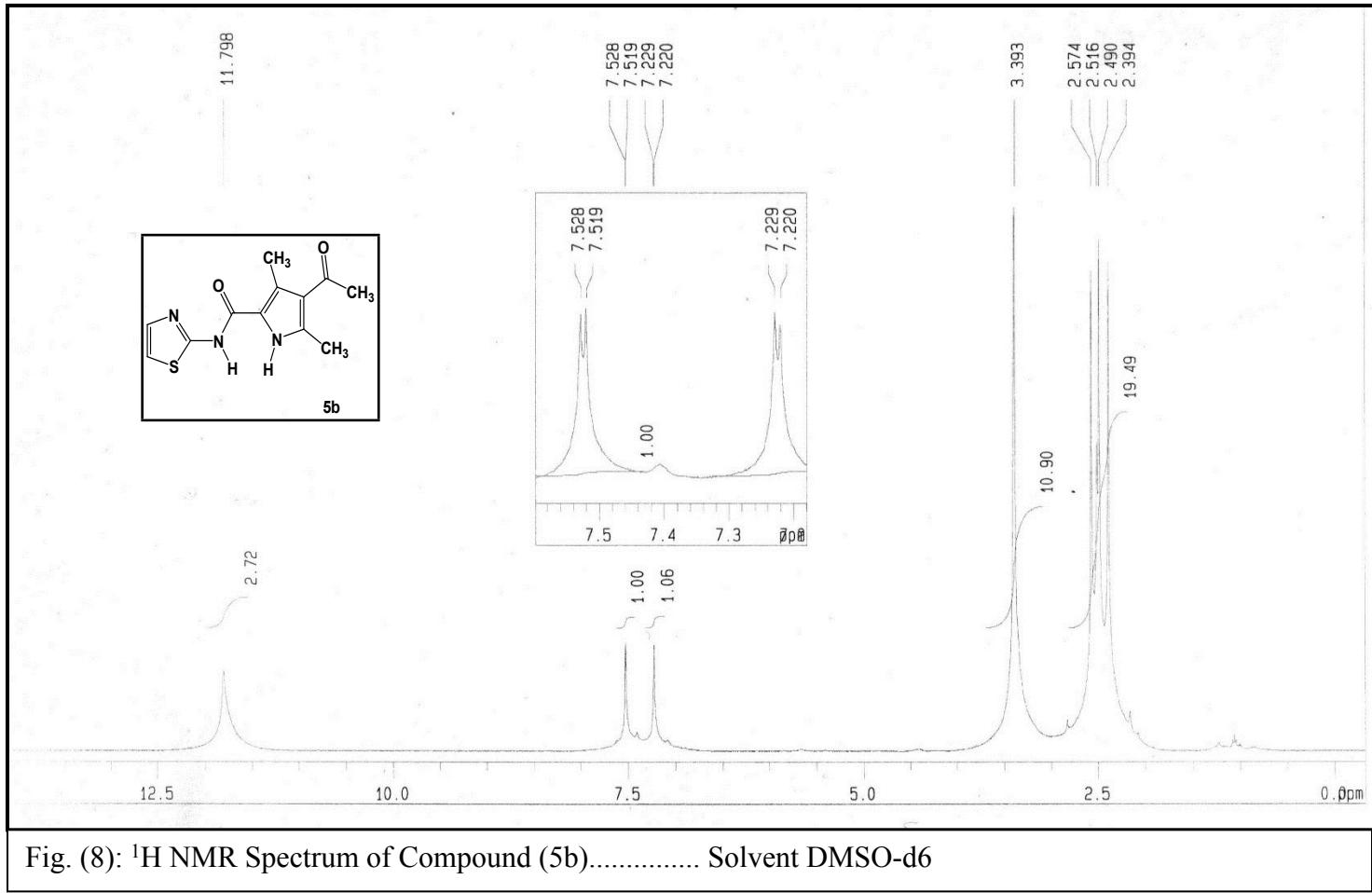


Fig. (7): ^{13}C +DEPT135 NMR Spectrum of Compound (5a)

Solvent $\text{CDCl}_3\text{-d}1$



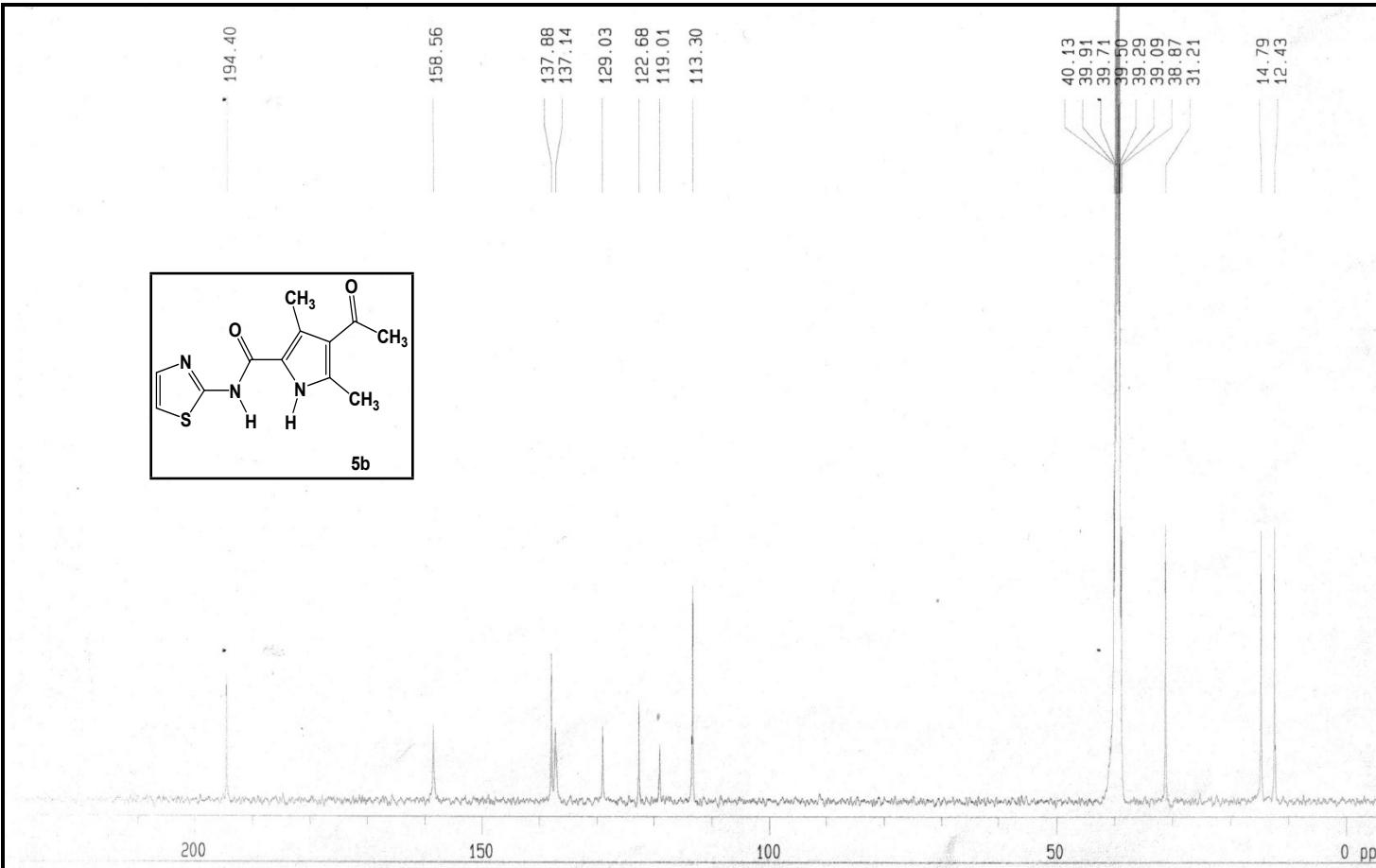
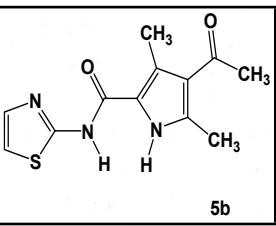


Fig. (9): ¹³C NMR Spectrum of Compound (5b)..... Solvent DMSO-d₆

Scan: 1-726 (106-108)

R.T.: 7:18.468

Base: m/z 195; .1%FS TIC: 37984

#Ions: 379

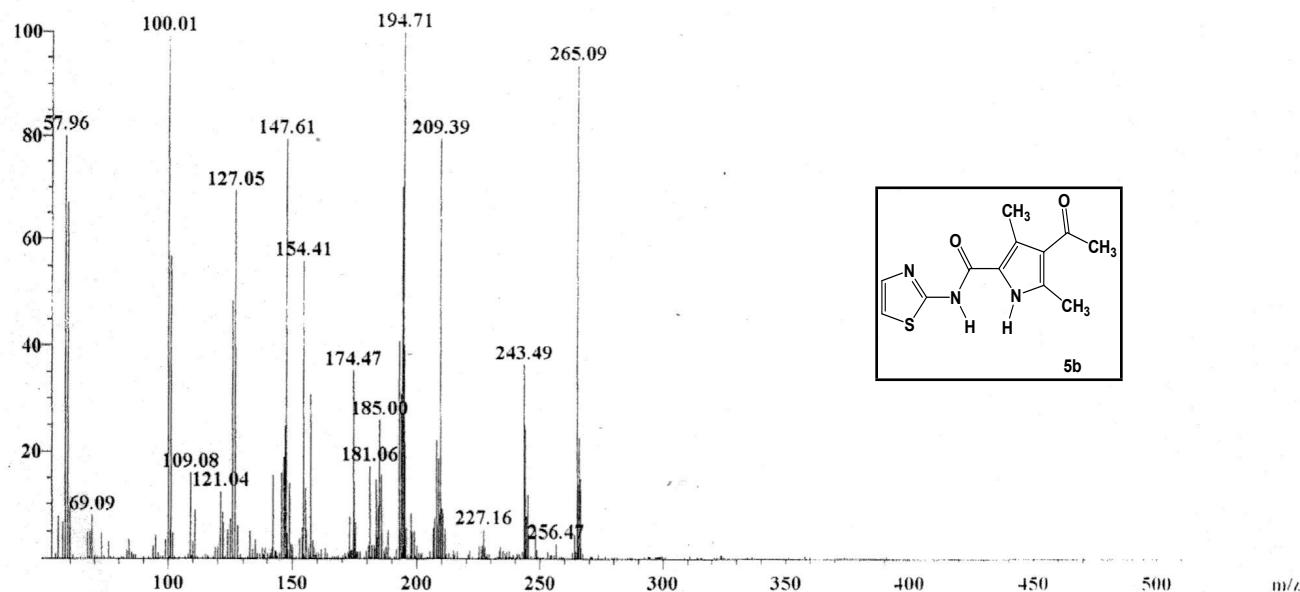


Fig. (10): MS Spectrum of Compound (5b)..... Solvent DMSO-d6

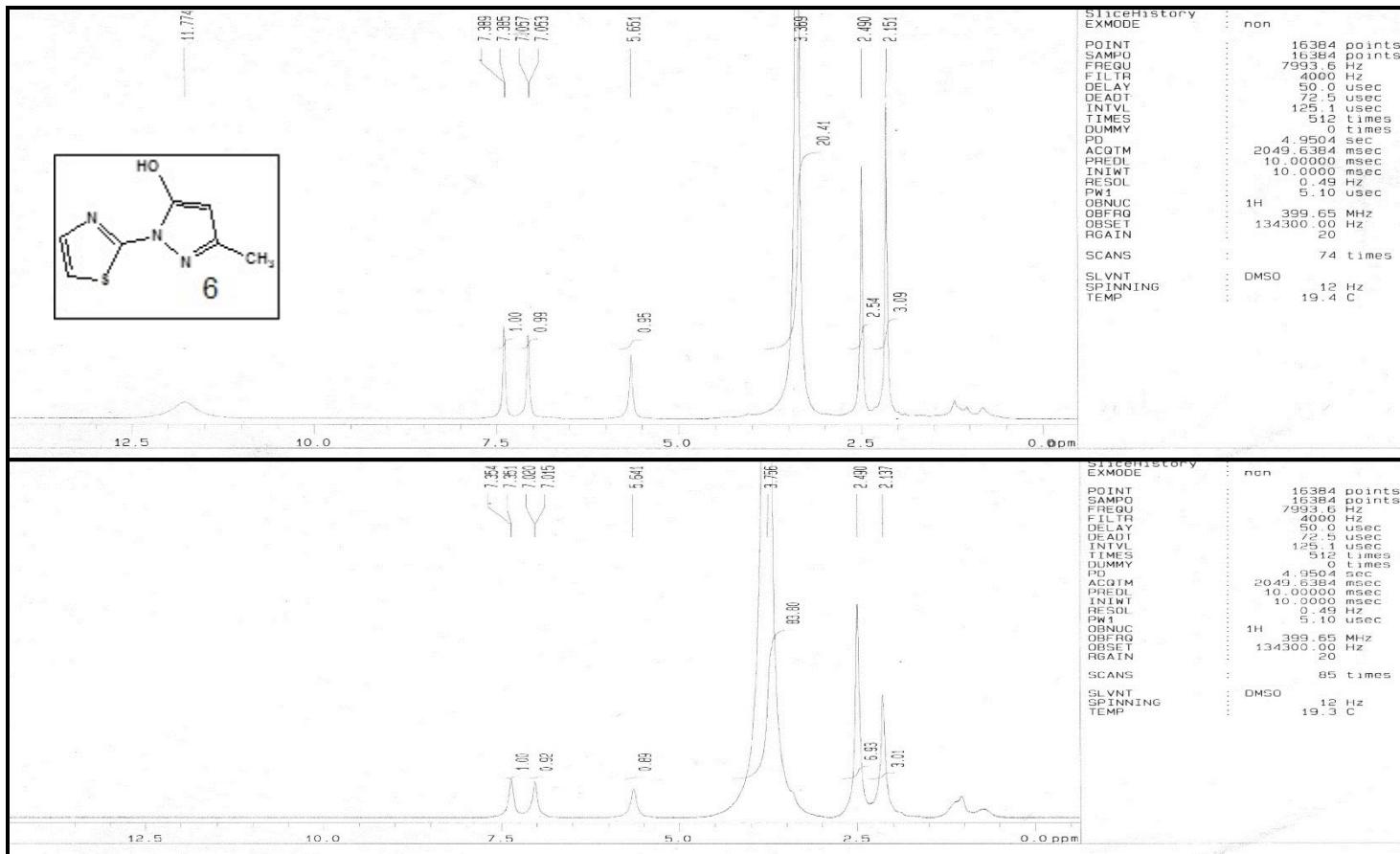
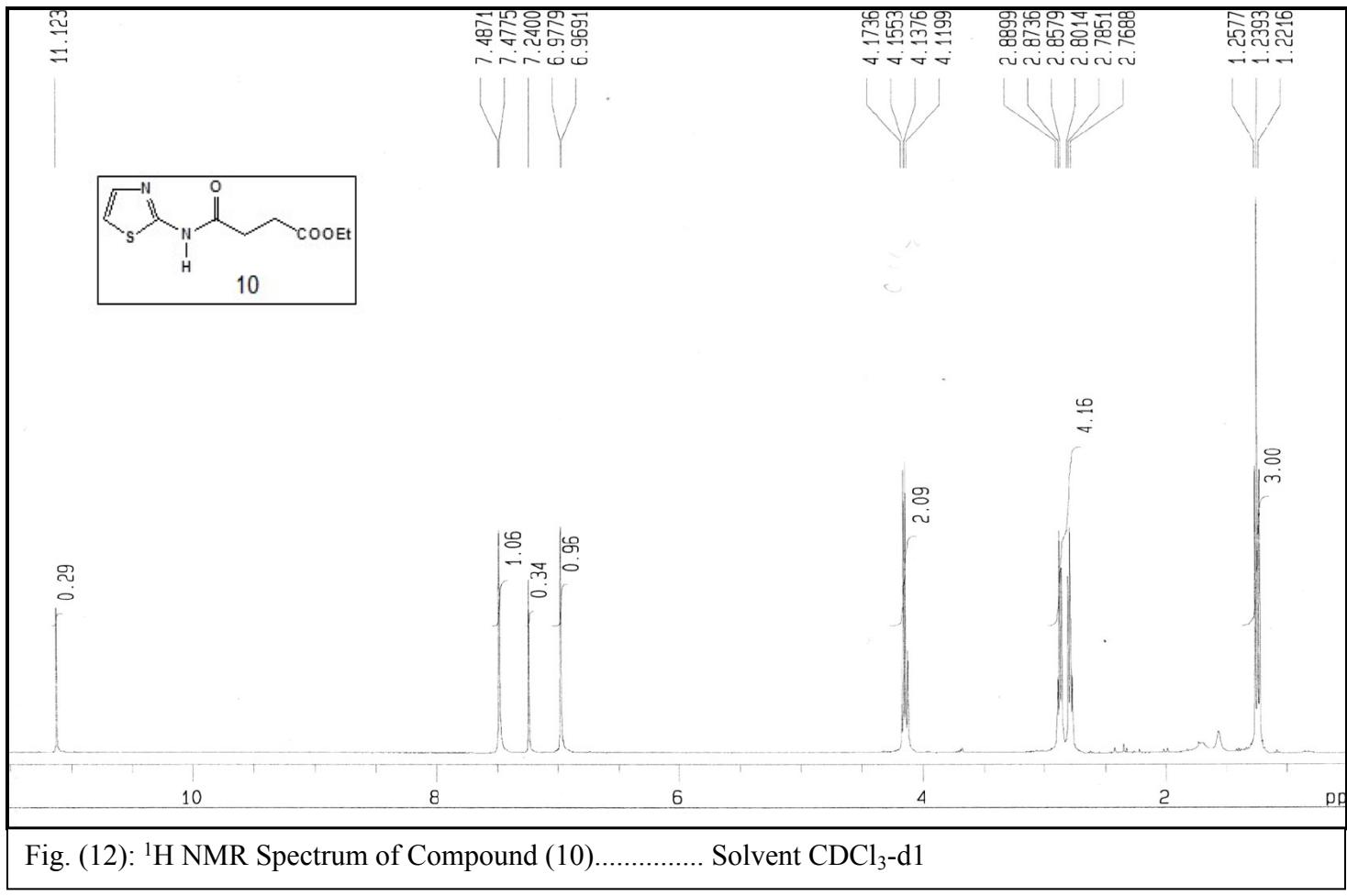


Fig. (11): $^1\text{H} + (^1\text{H} + \text{D}_2\text{O})$ NMR Spectrum of Compound (6)..... Solvent DMSO-d₆



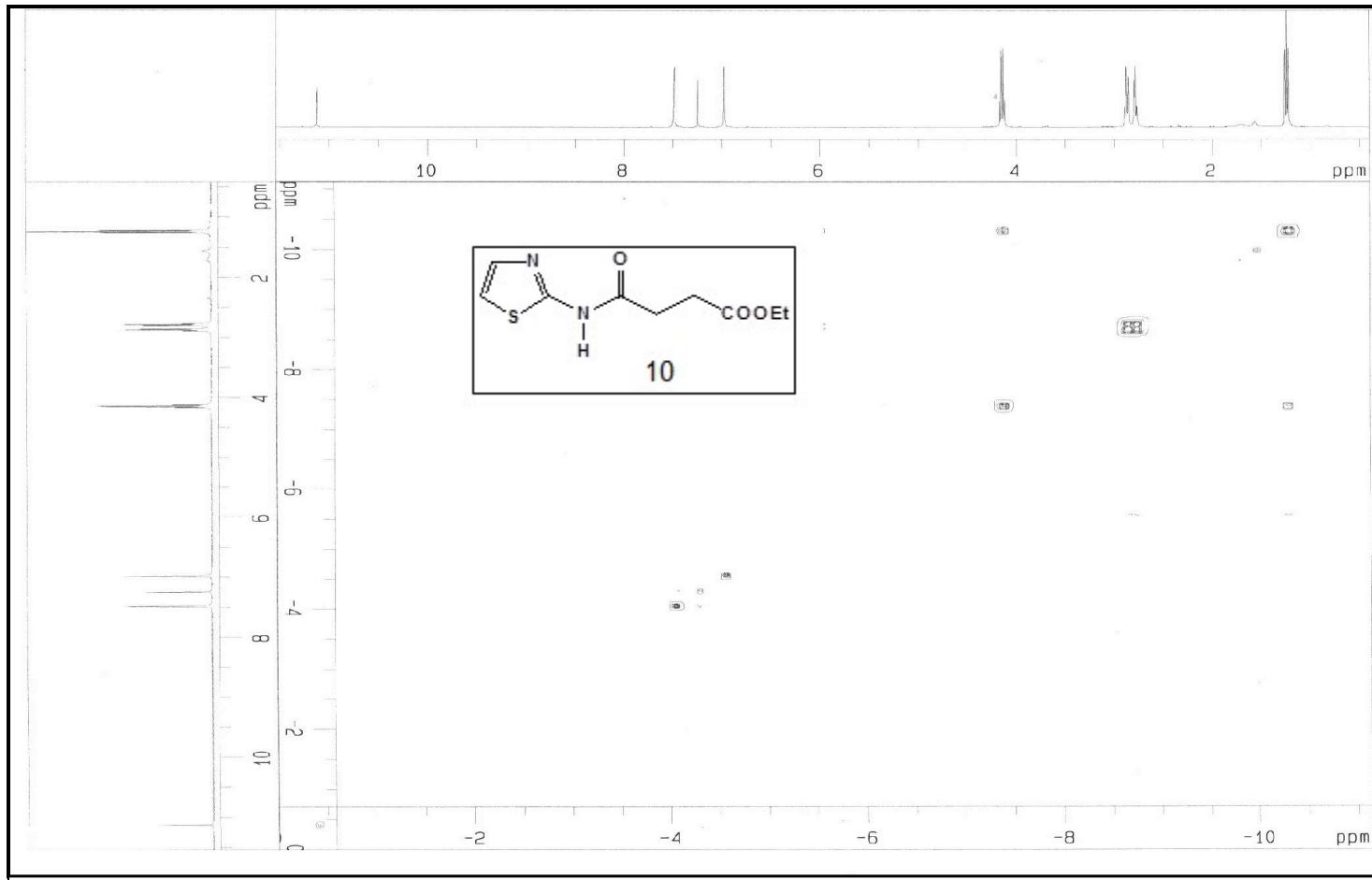


Fig. (13): ^1H - H -COSY NMR Spectrum of Compound (10)..... Solvent $\text{CDCl}_3\text{-d}1$

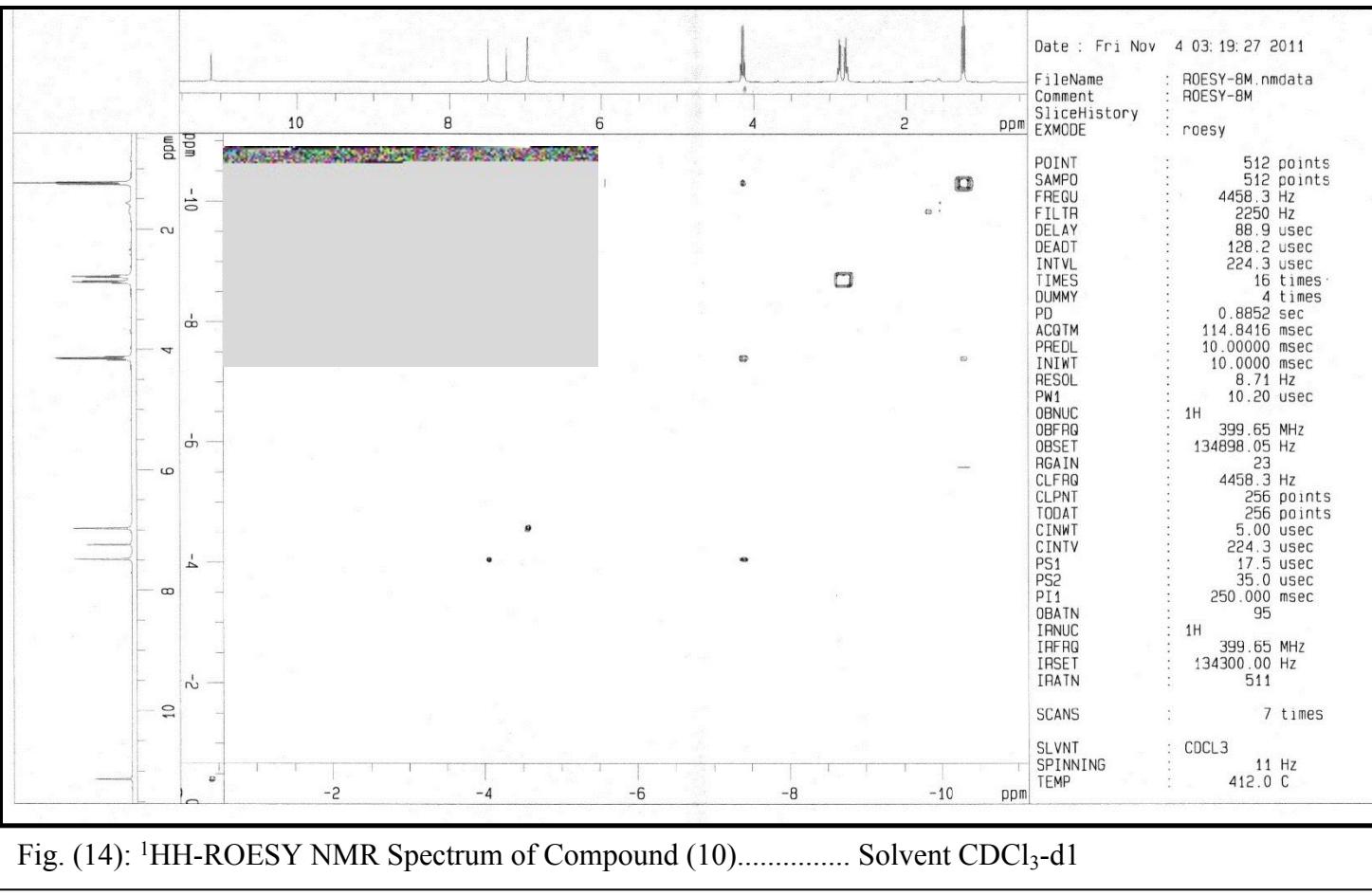


Fig. (14): ^1H -ROESY NMR Spectrum of Compound (10). . . Solvent $\text{CDCl}_3\text{-d}1$

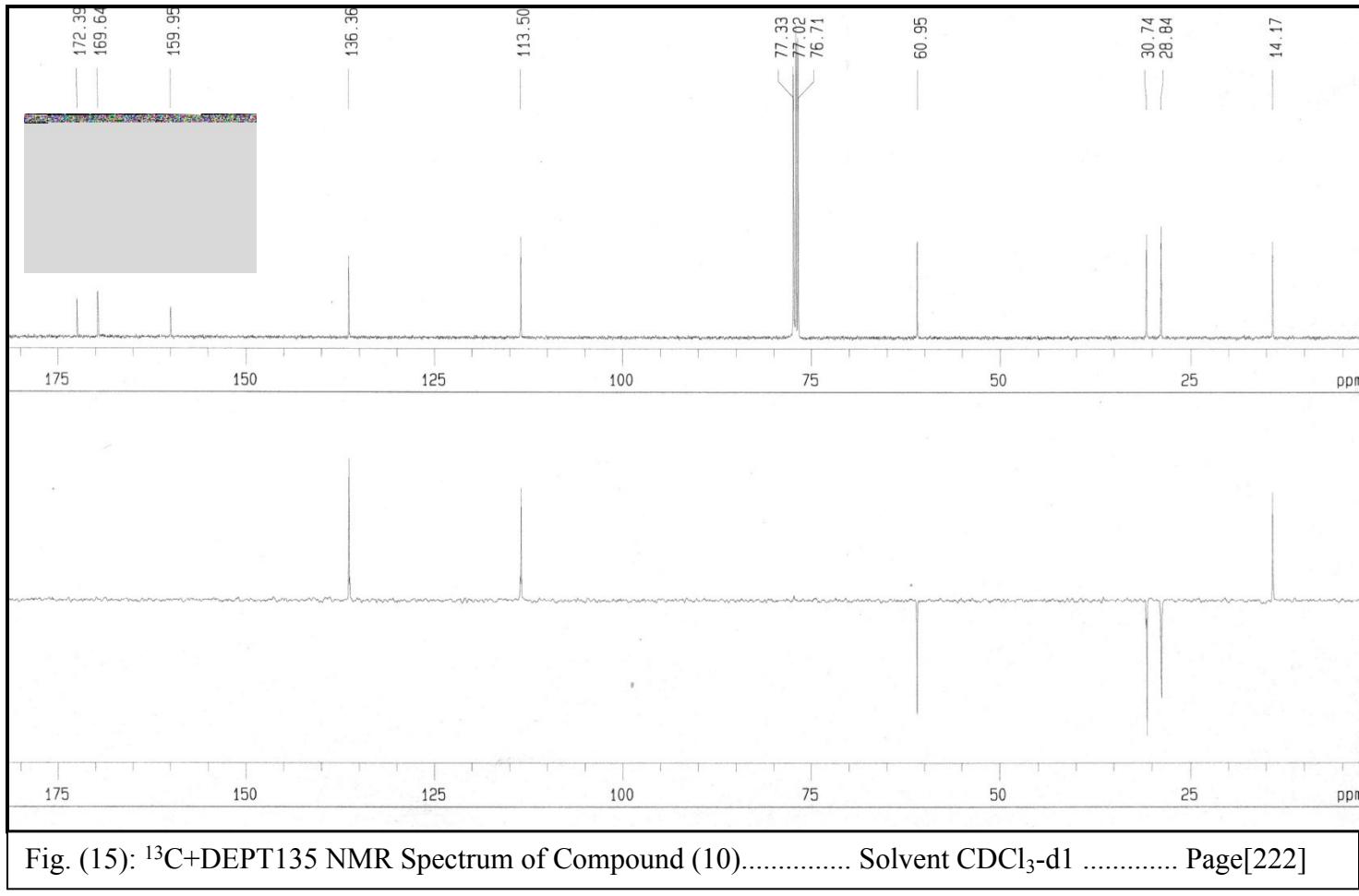
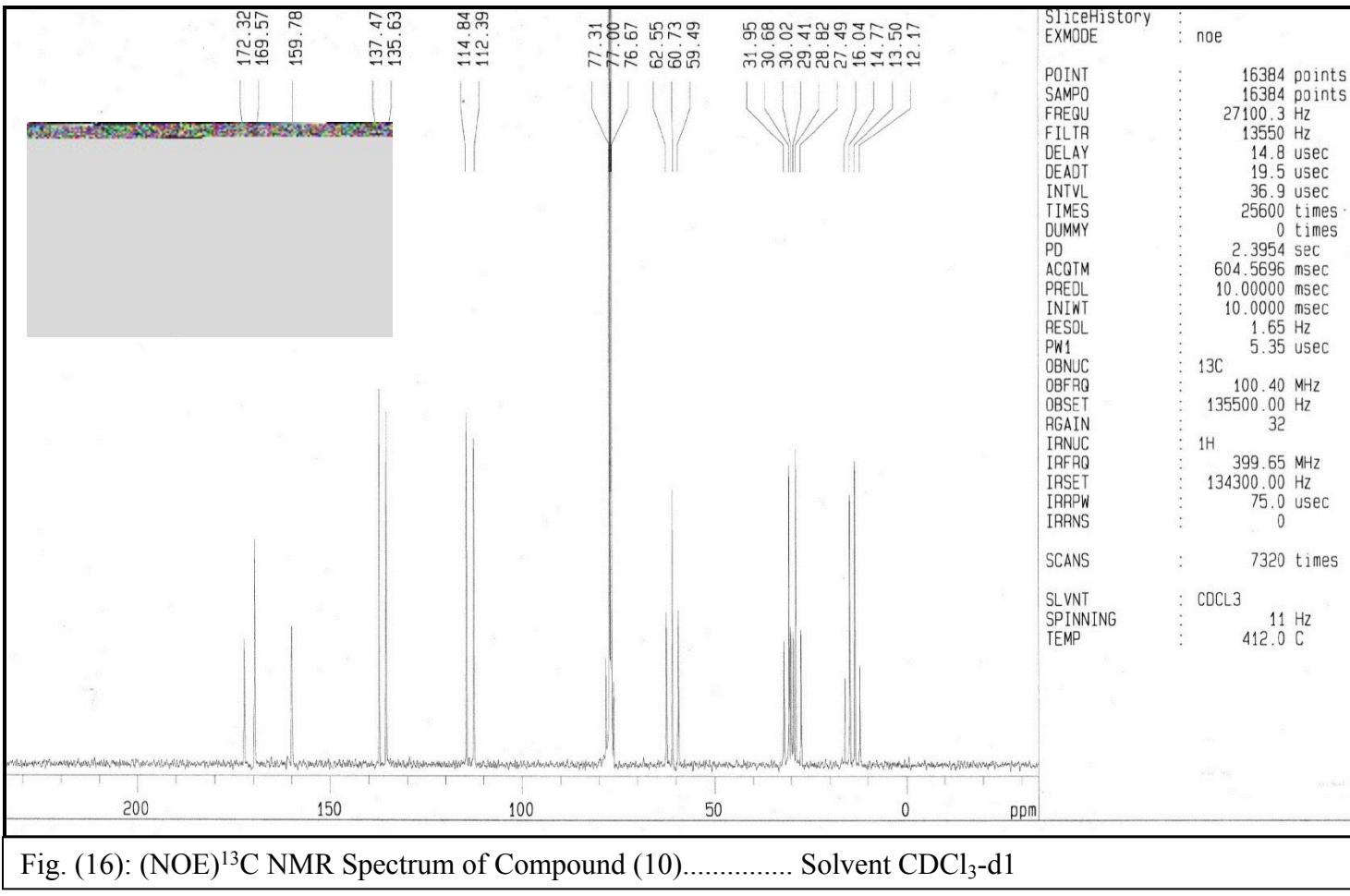


Fig. (15): ¹³C+DEPT135 NMR Spectrum of Compound (10)..... Solvent CDCl₃-d1 Page[222]



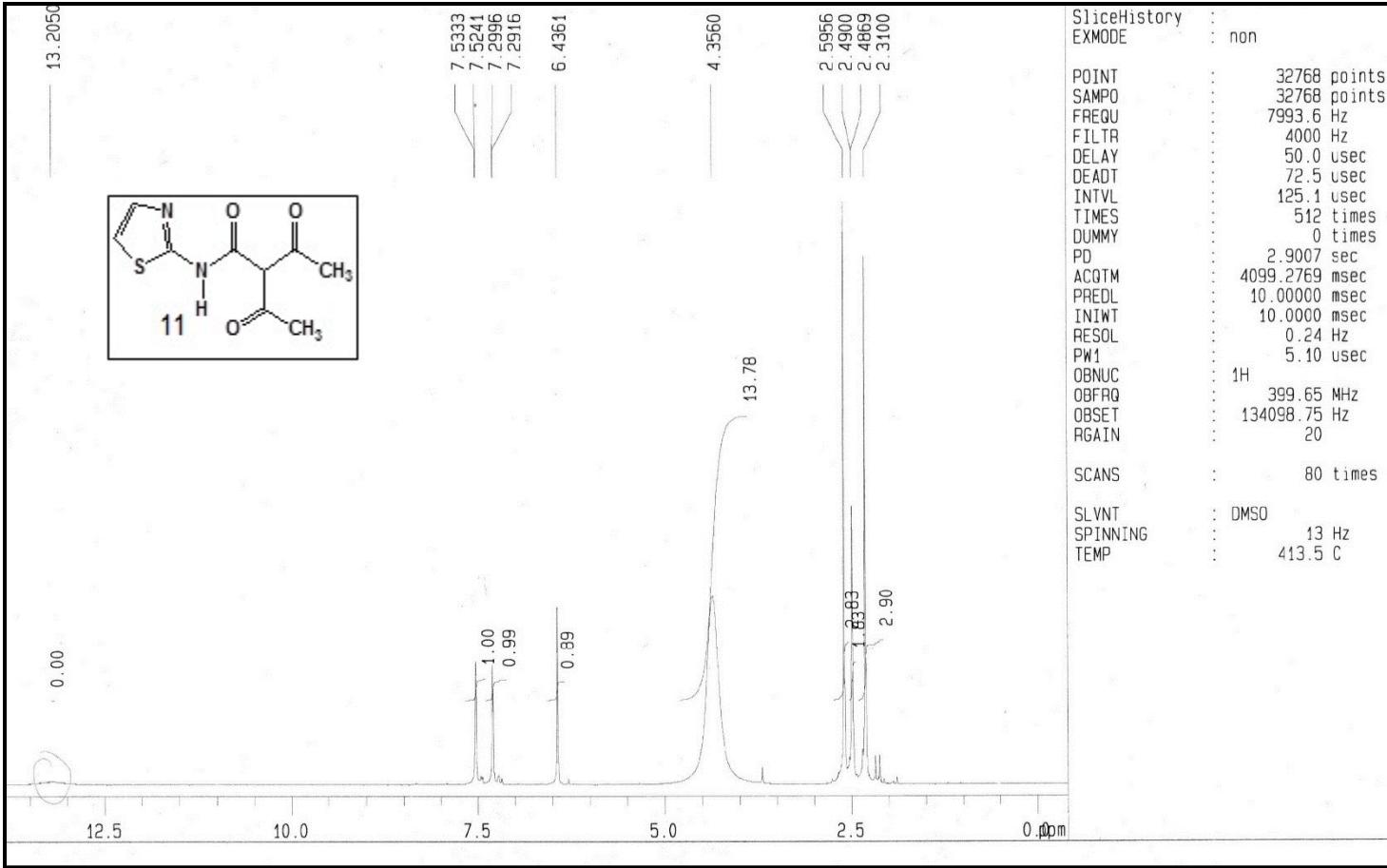


Fig. (17): ^1H NMR Spectrum of Compound (11). Solvent DMSO-d₆

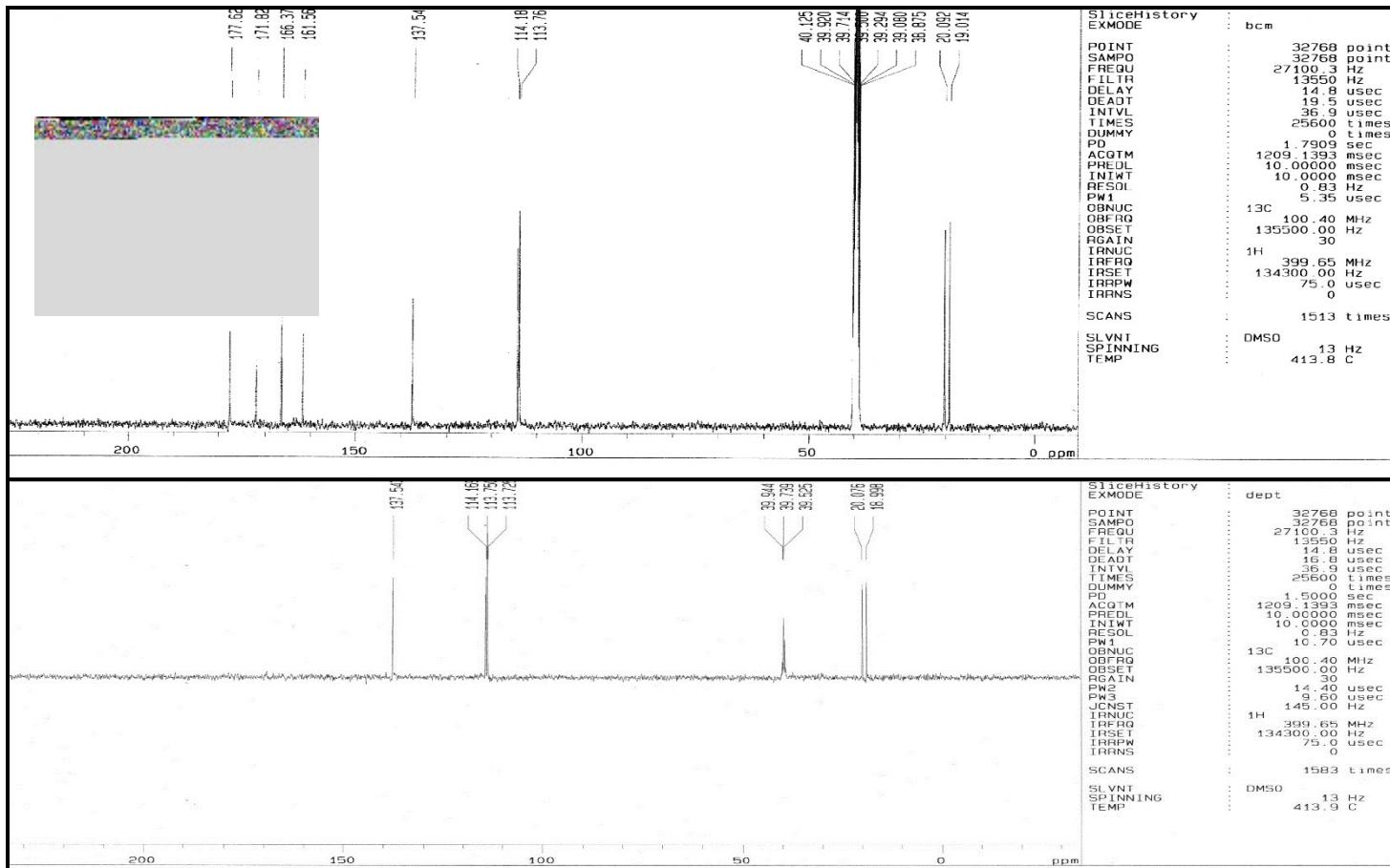
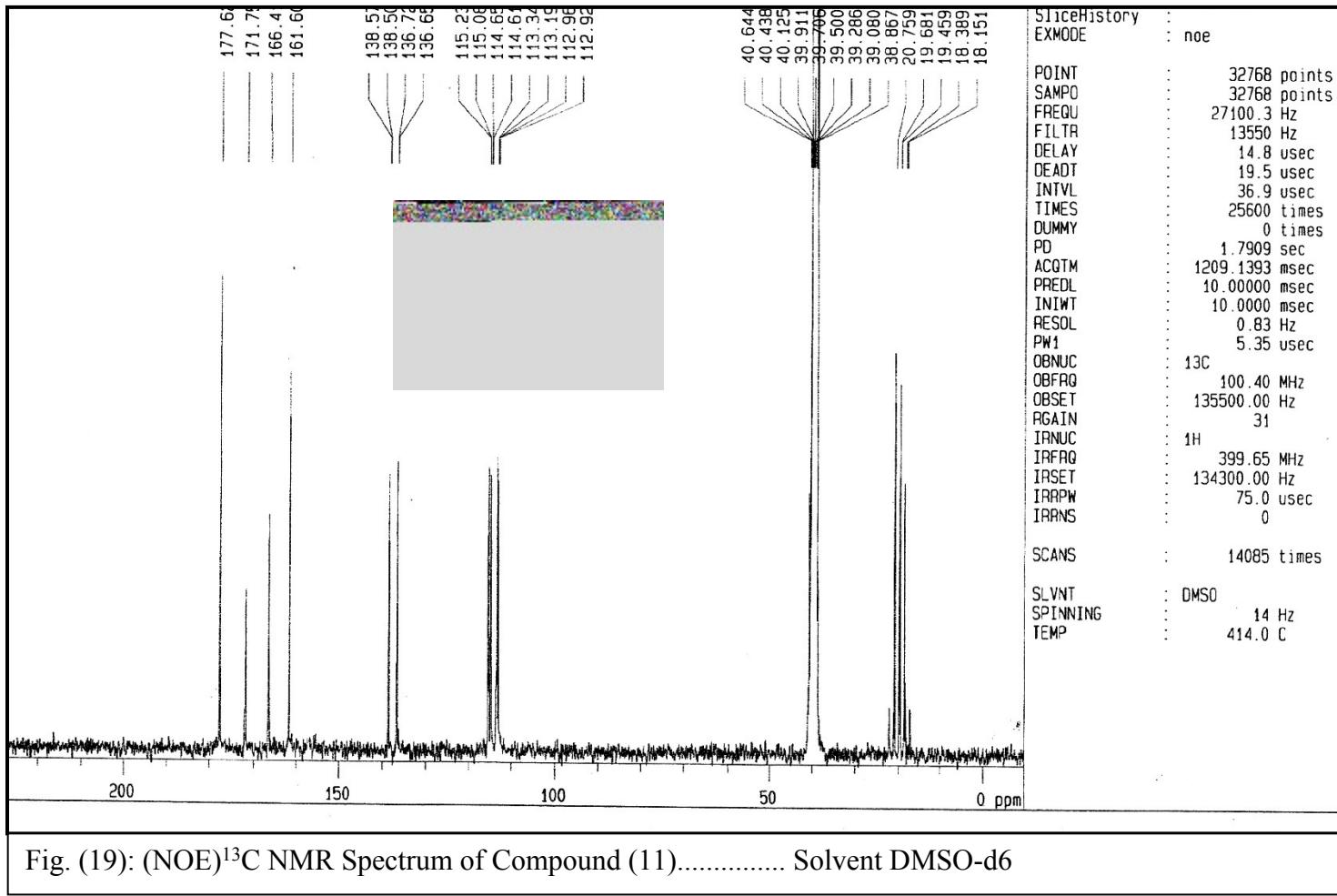


Fig. (18): ^{13}C +DEPT135 NMR Spectrum of Compound (11)



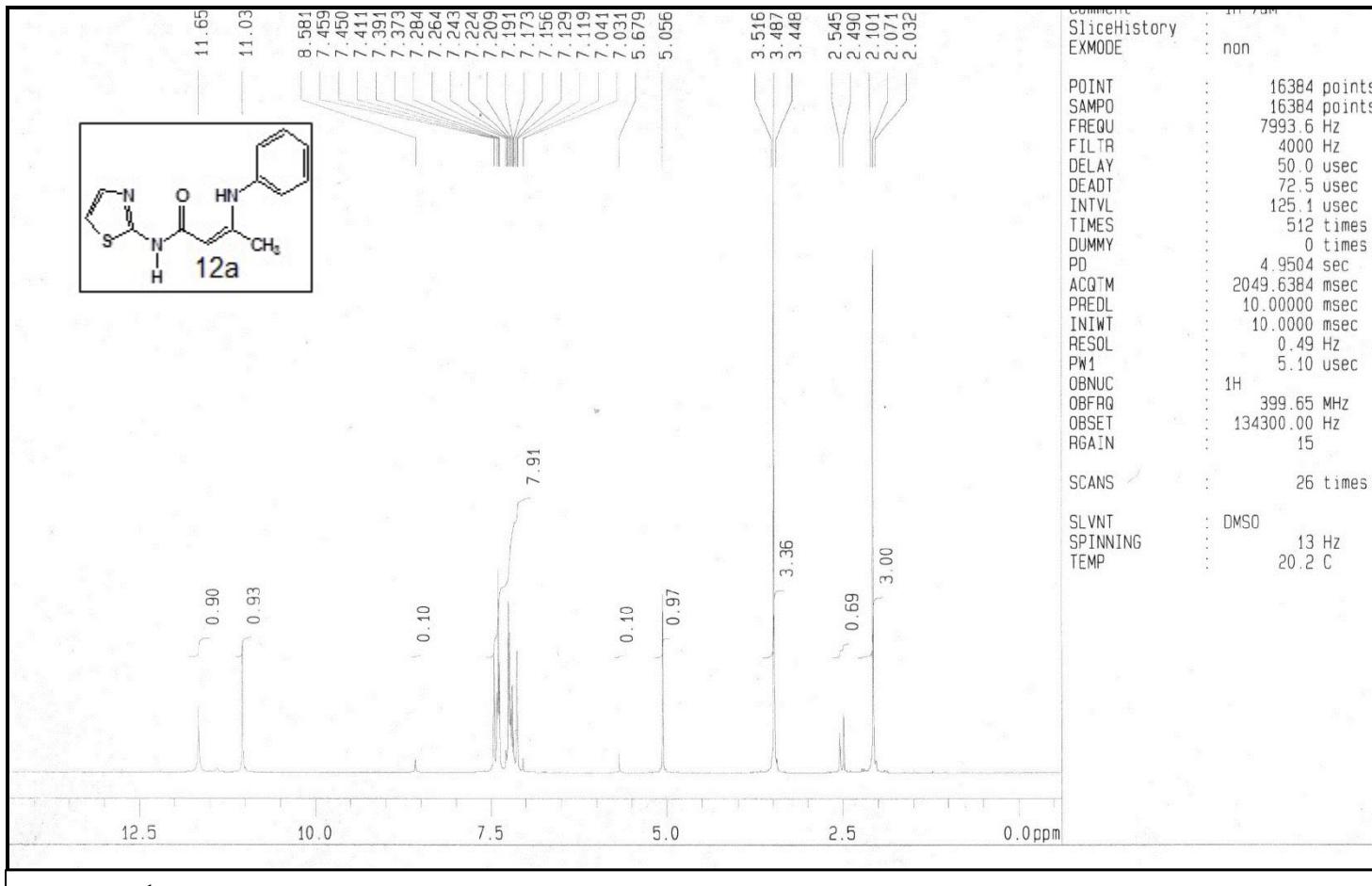


Fig. (20): ^1H NMR Spectrum of Compound (12a)..... Solvent DMSO-d₆

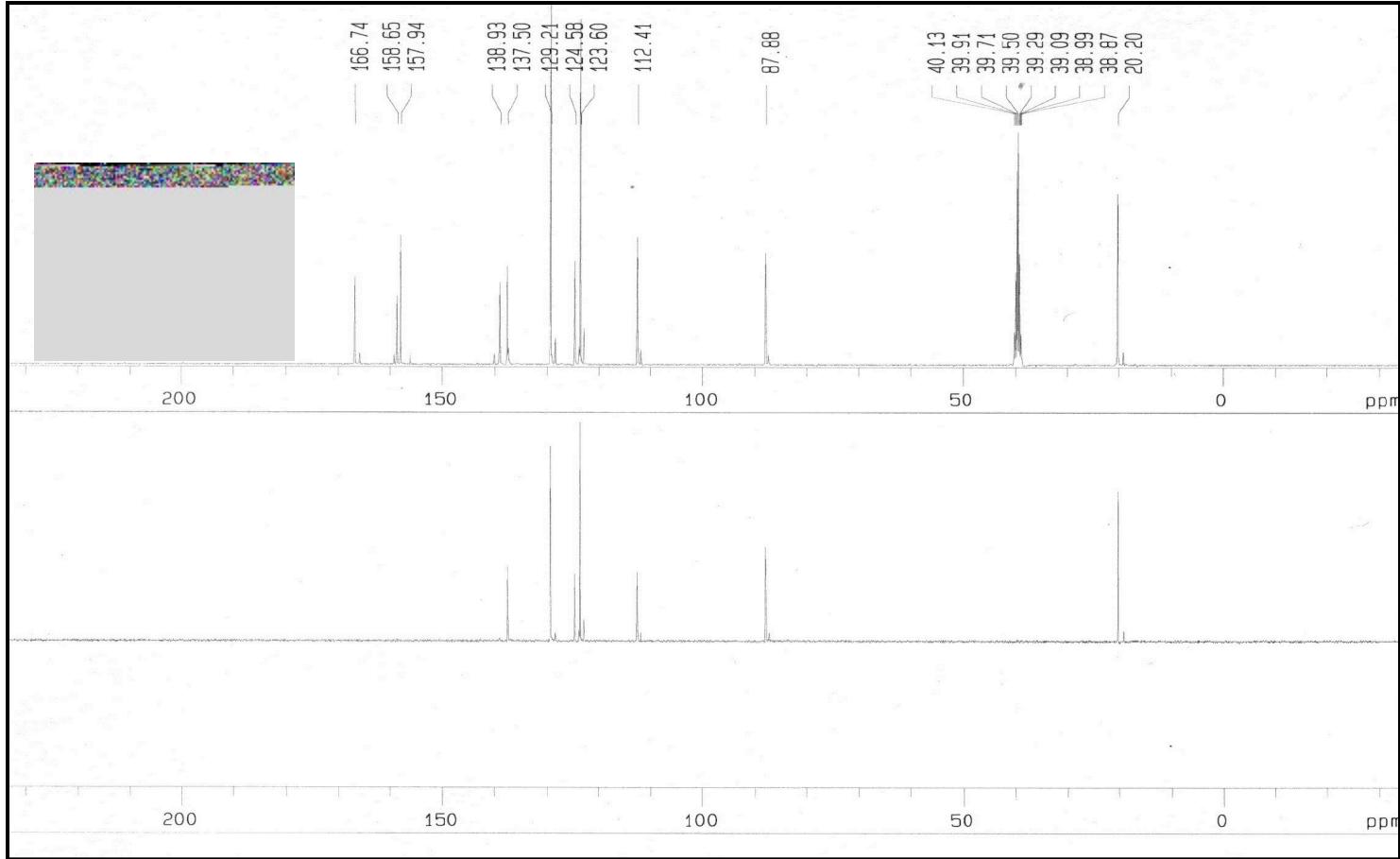


Fig. (21): ¹³C+DEPT135 NMR Spectrum of Compound (12a)

Scan: 520-802

R.T.: 13:12.66

Base: m/z 221; 1.5%FS TIC: 147546

#Ions: 308

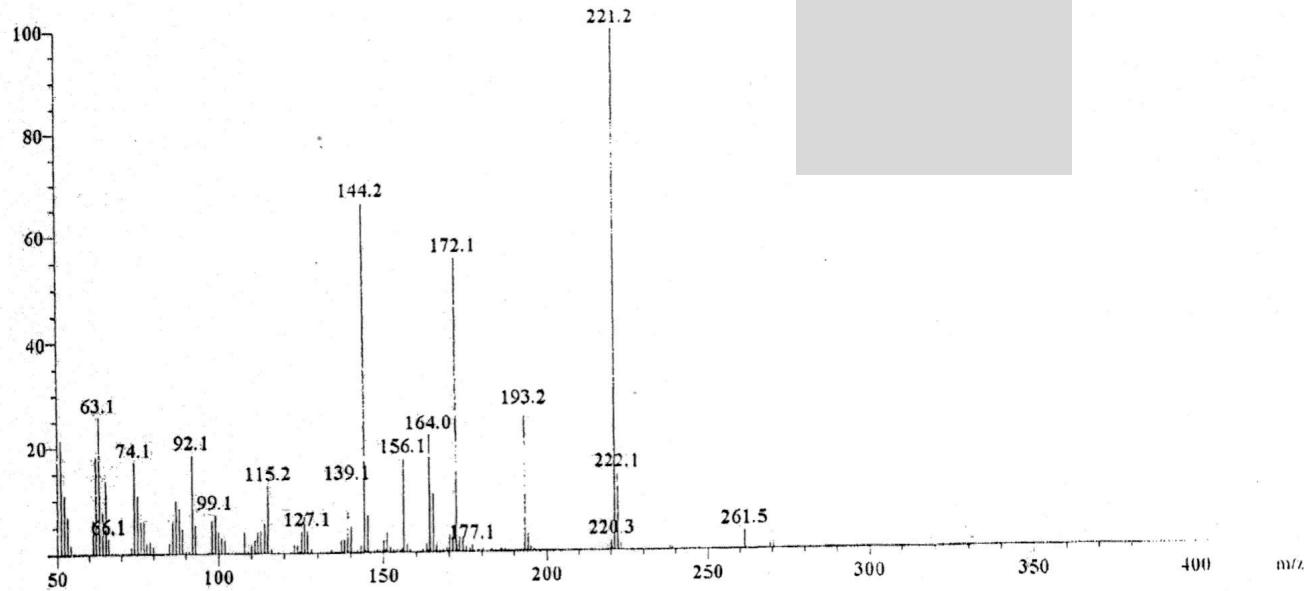


Fig. (22): MS. Spectrum of Compound (12a)

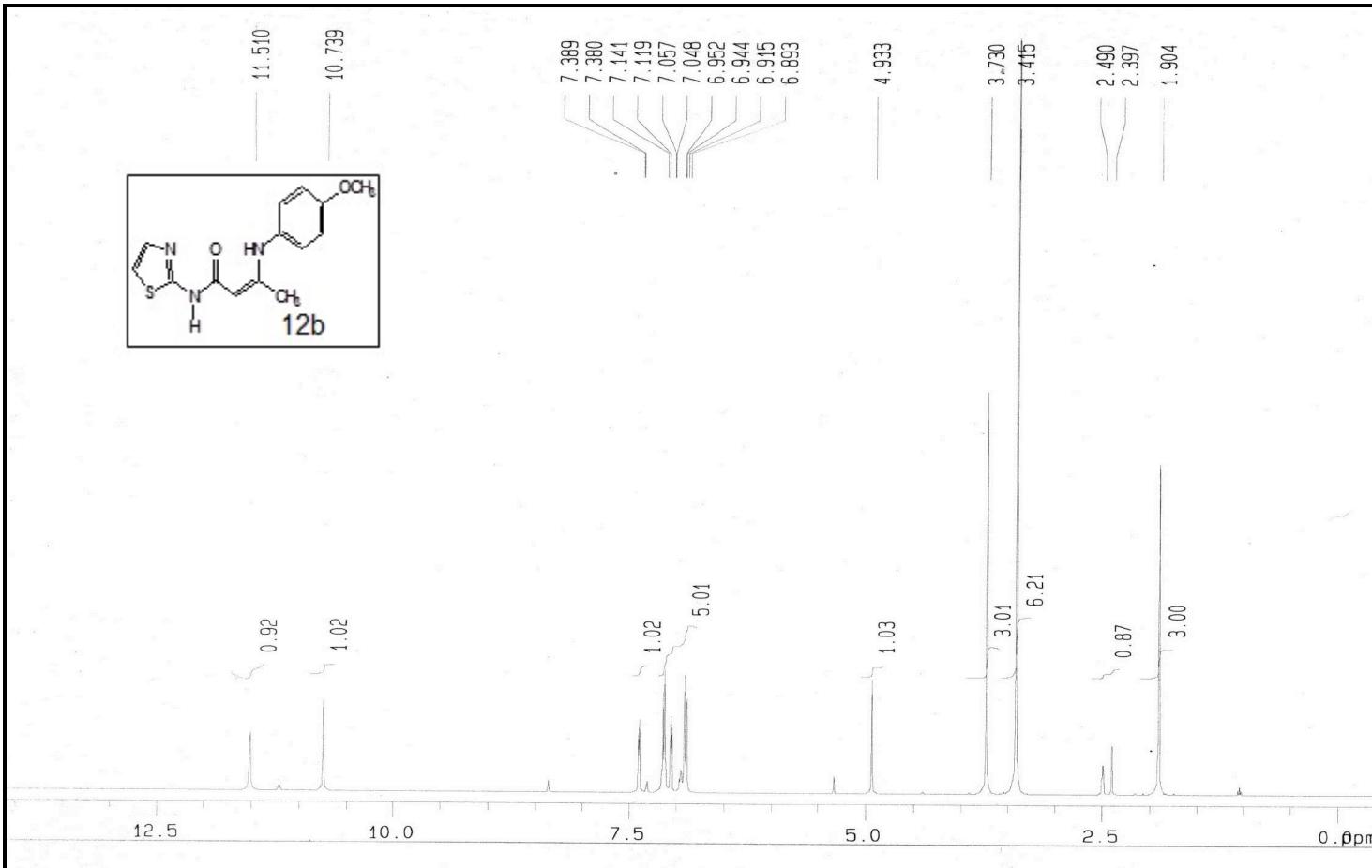


Fig. (23): ^1H NMR Spectrum of Compound (12b) Solvent DMSO-d₆

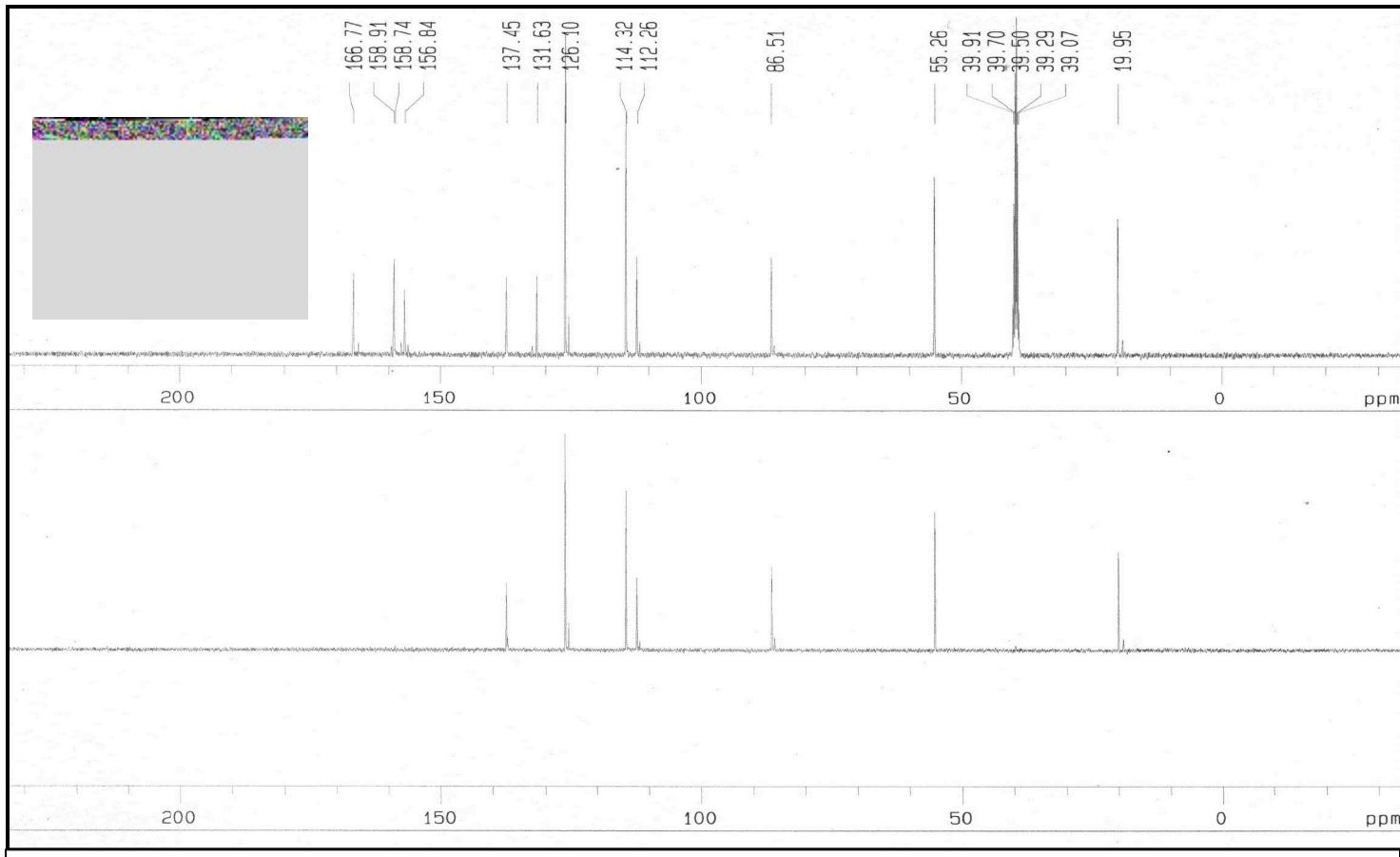


Fig. (24): ¹³C+DEPT135 NMR Spectrum of Compound (12b)..... Solvent DMSO-d6

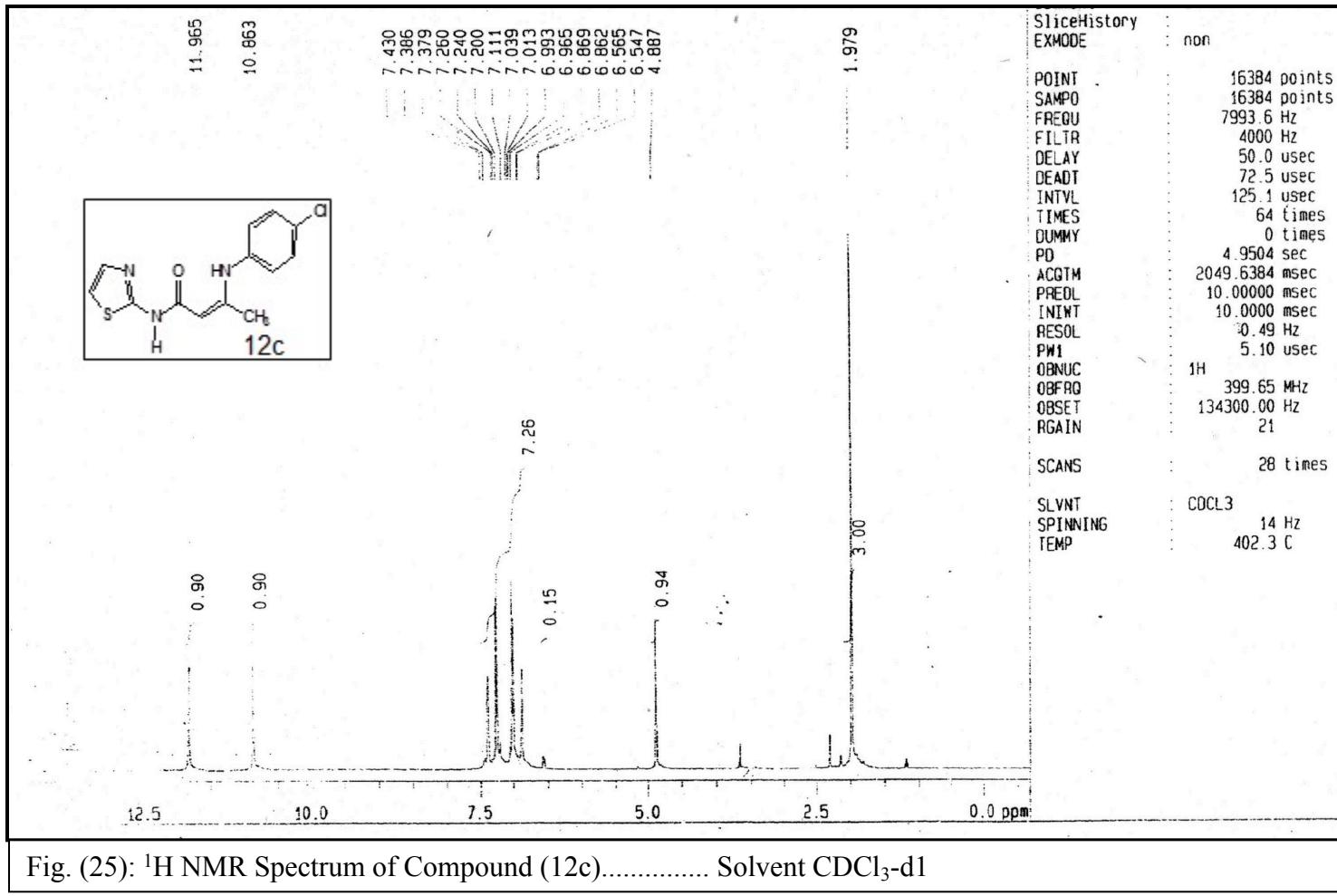


Fig. (25): ¹H NMR Spectrum of Compound (12c)..... Solvent CDCl₃-d1

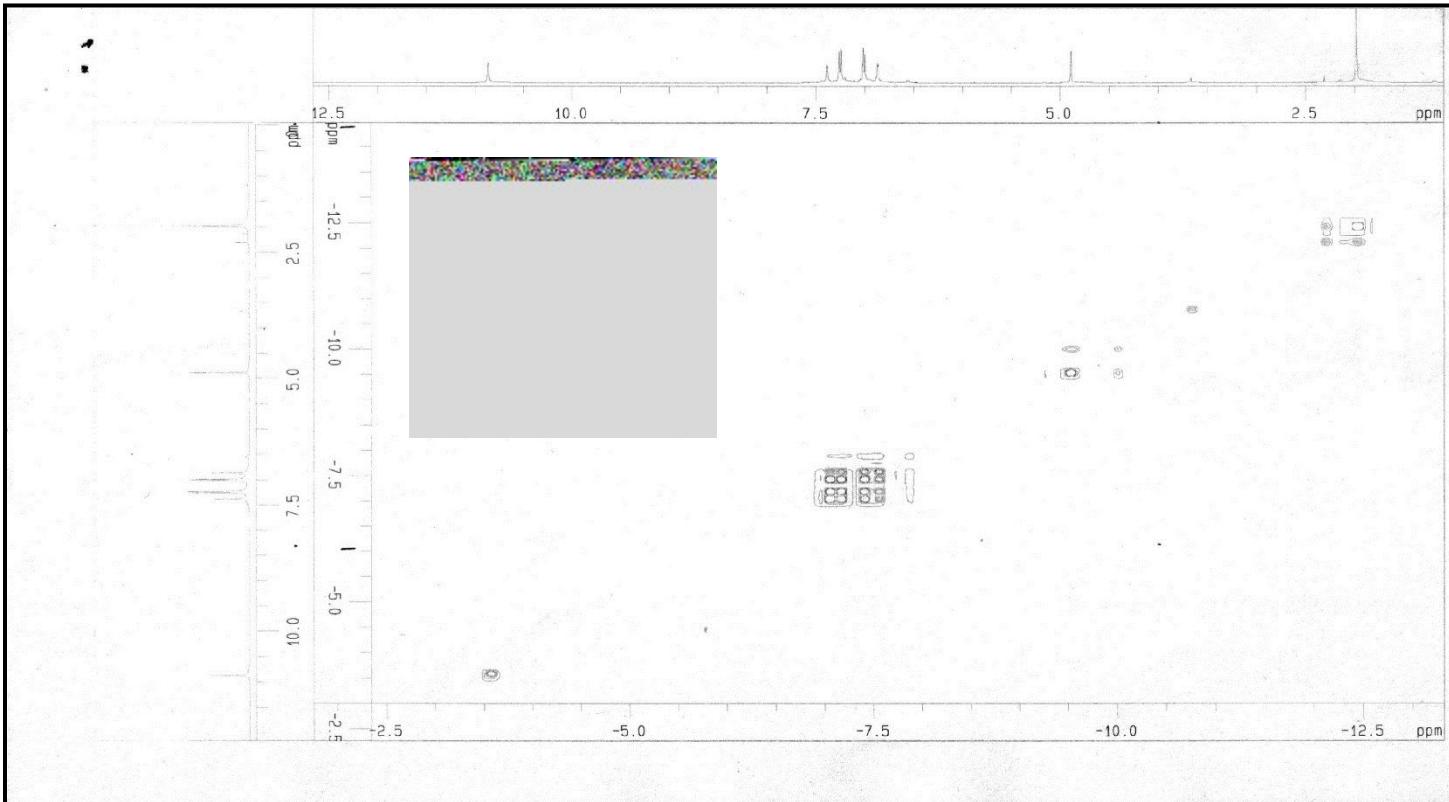


Fig. (26): ¹HH-COSY NMR Spectrum of Compound (12c)..... Solvent $\text{CDCl}_3\text{-d}1$

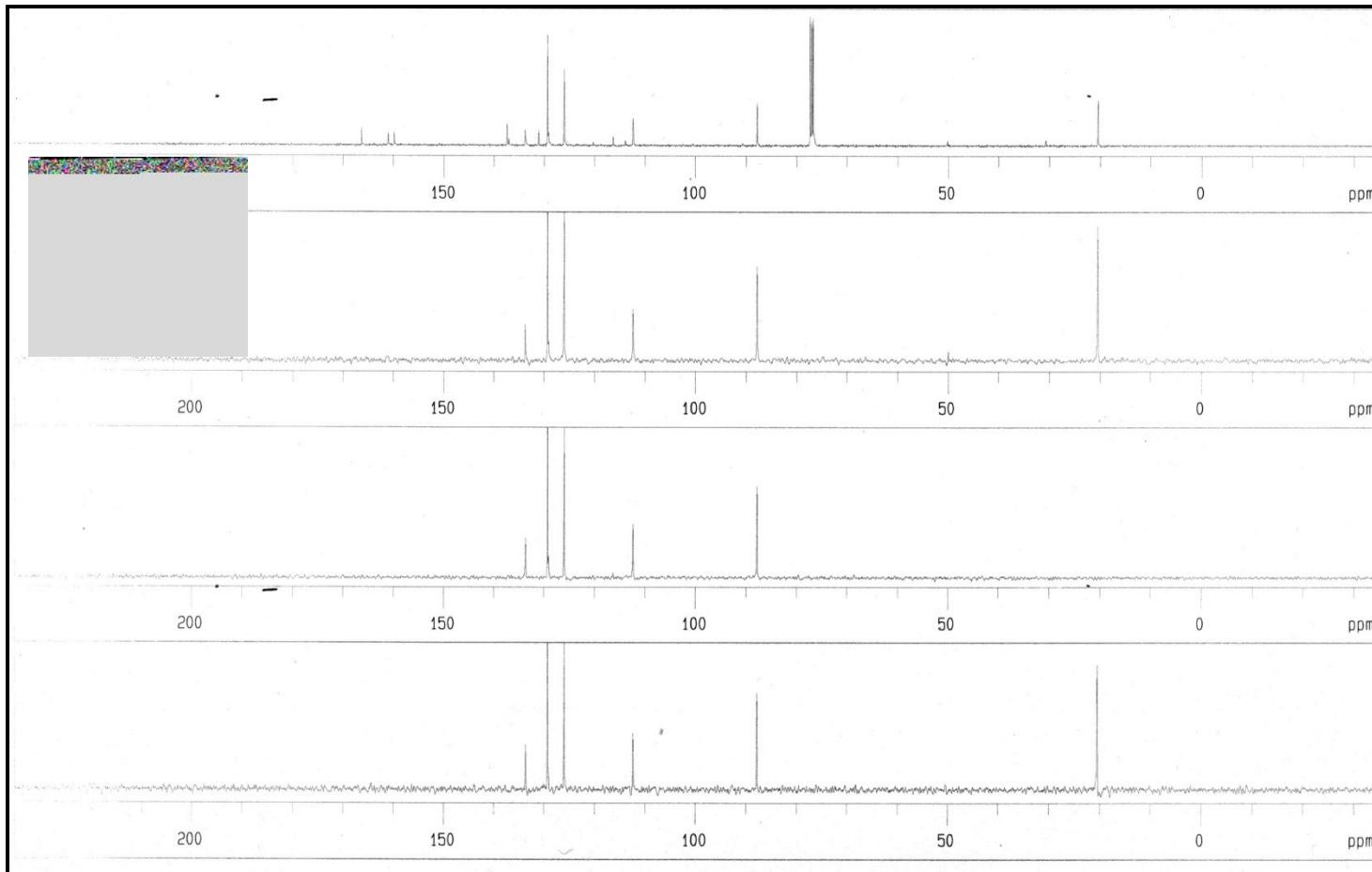


Fig. (27): $^{13}\text{C}+(\text{Dept-135,90,45})$ NMR Spectrum of Compound (12c)..... Solvent $\text{CDCl}_3\text{-d}1$

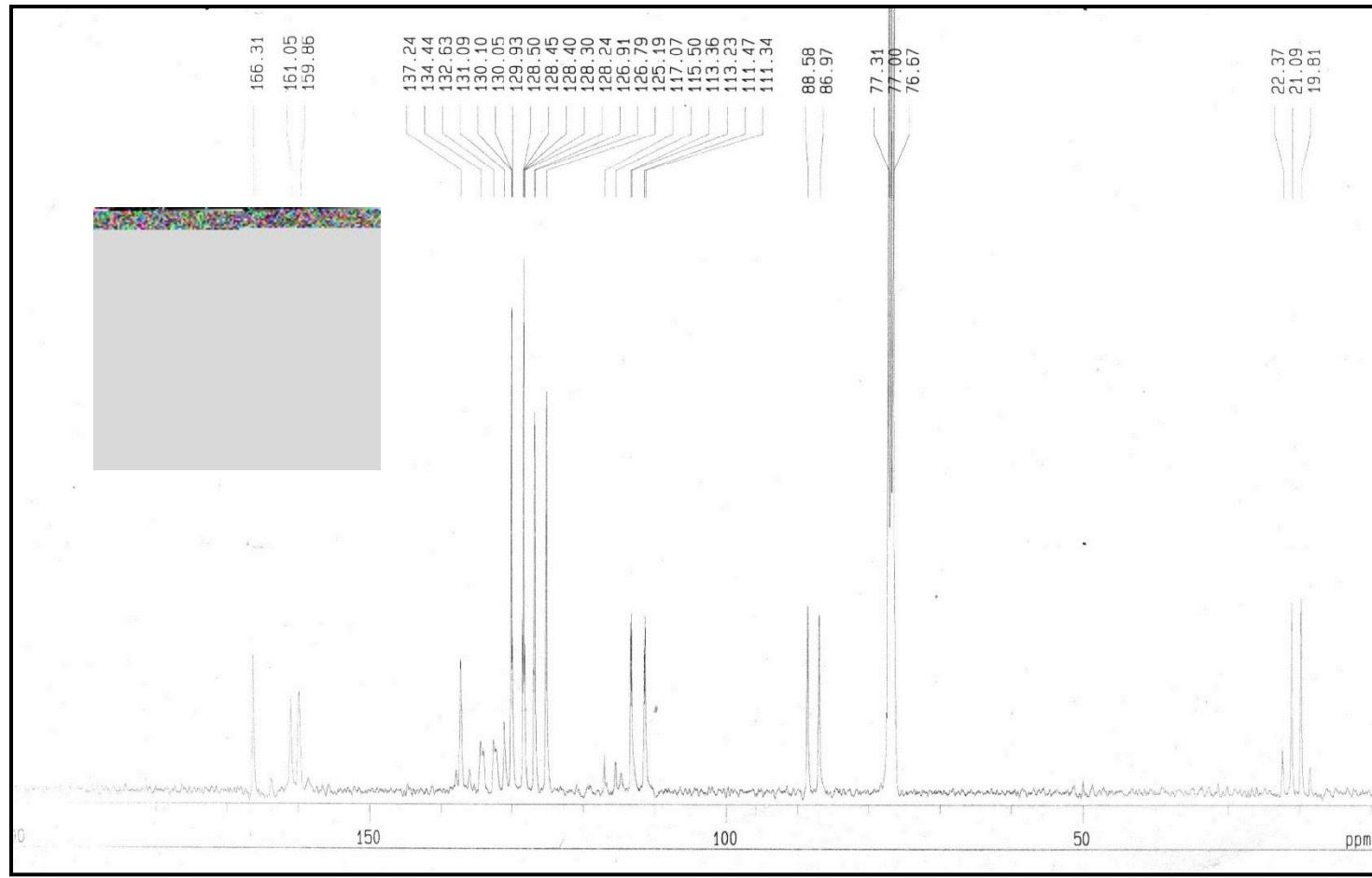
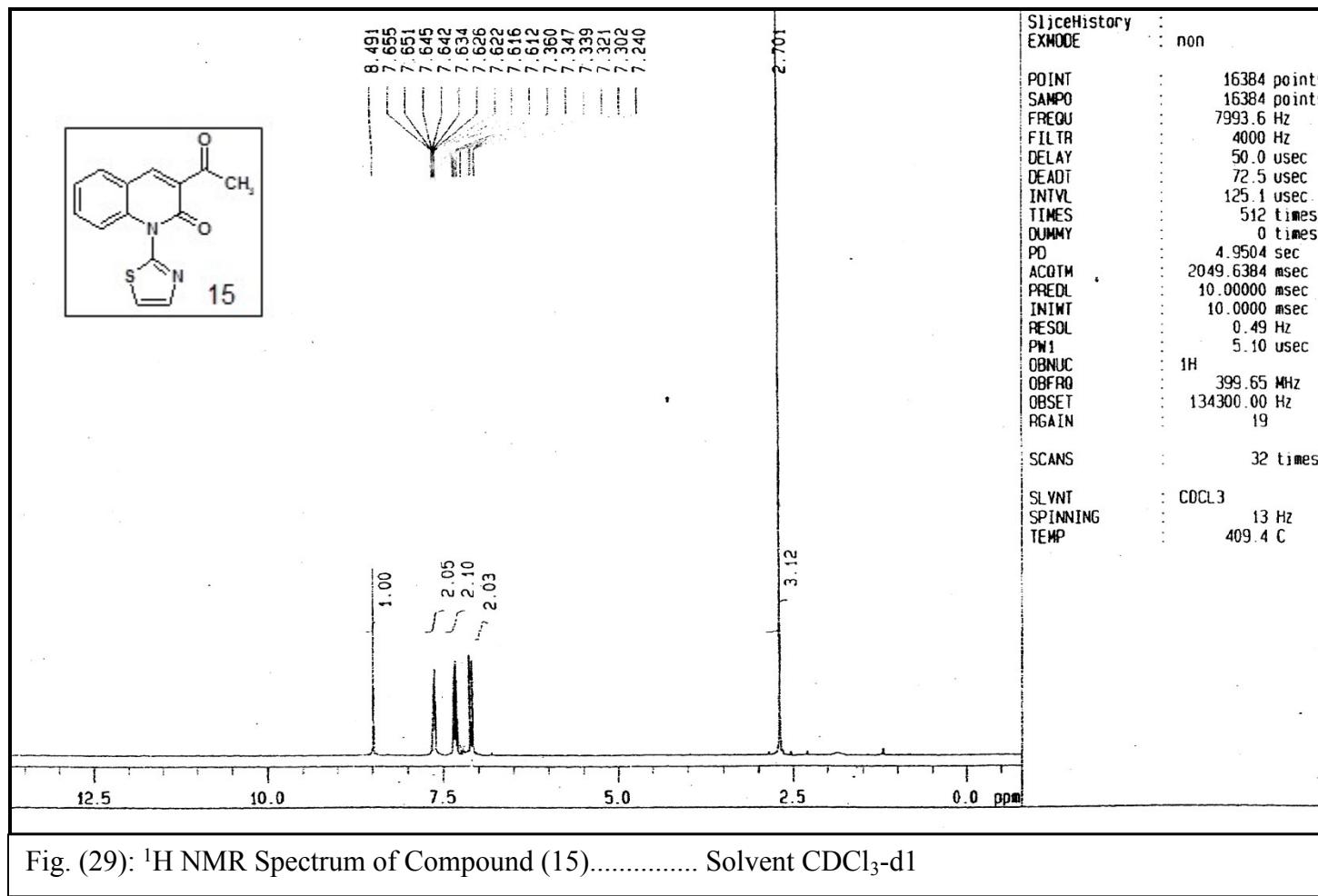


Fig. (28): (NOE) ^{13}C NMR Spectrum of Compound (12c)..... Solvent $\text{CDCl}_3\text{-d}1$



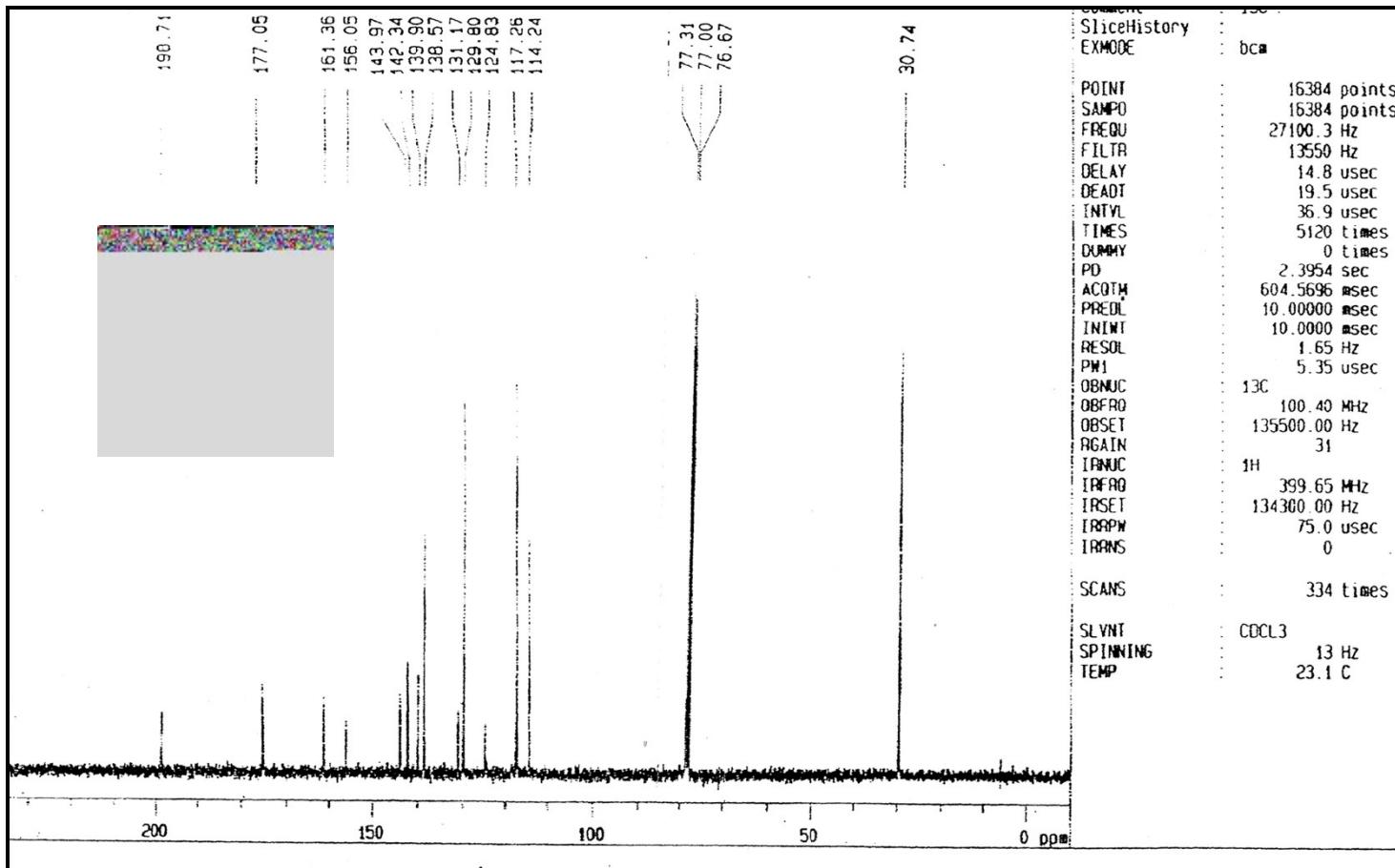


Fig. (30): ^{13}C NMR Spectrum of Compound (15)..... Solvent $\text{CDCl}_3\text{-d}1$