

## Synthesis and Biological Activity of Some New Pyrazoline and Pyrimidine Derivatives

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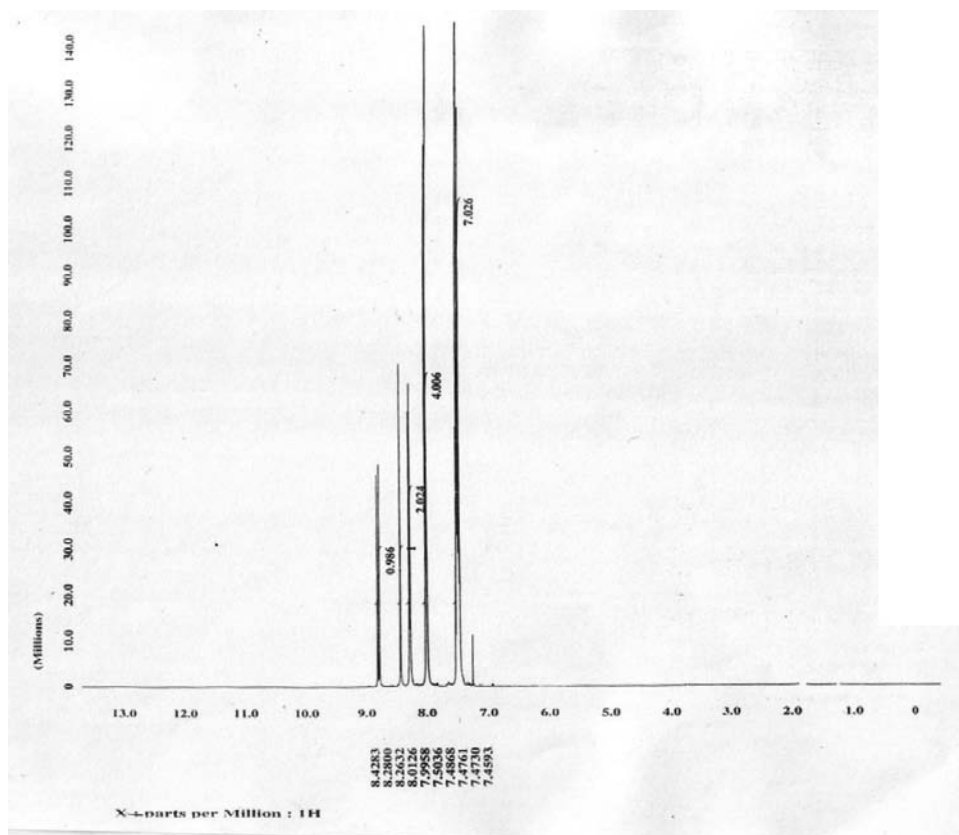
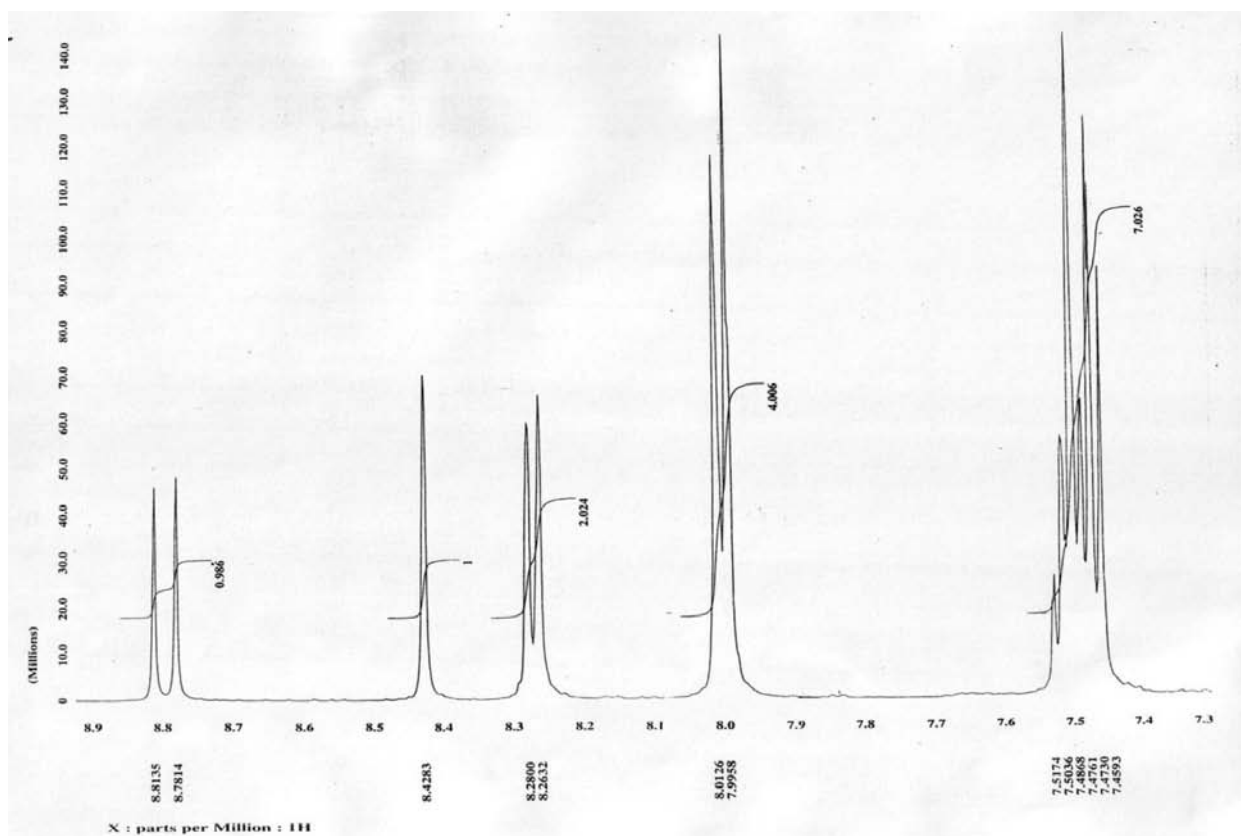
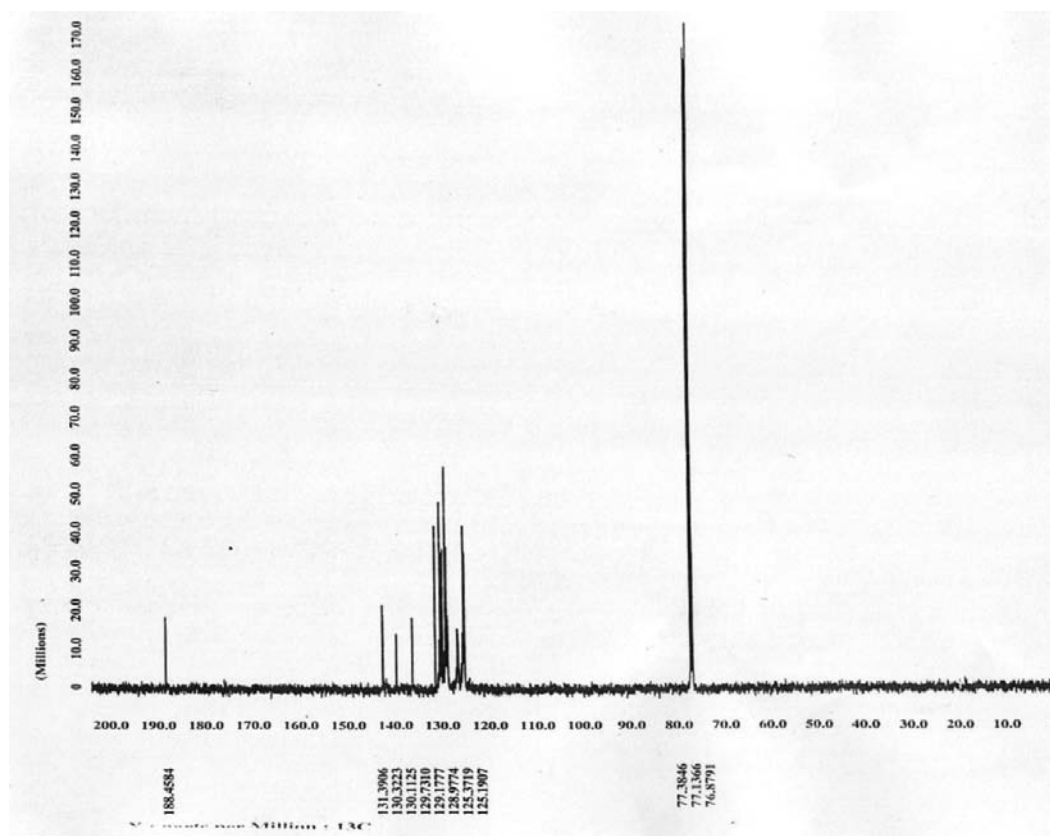


Figure S1. <sup>1</sup>H NMR spectrum of compound 1.

Figure S2. <sup>1</sup>H NMR spectrum of compound 1.Figure S3. <sup>13</sup>C NMR spectrum of compound 1.

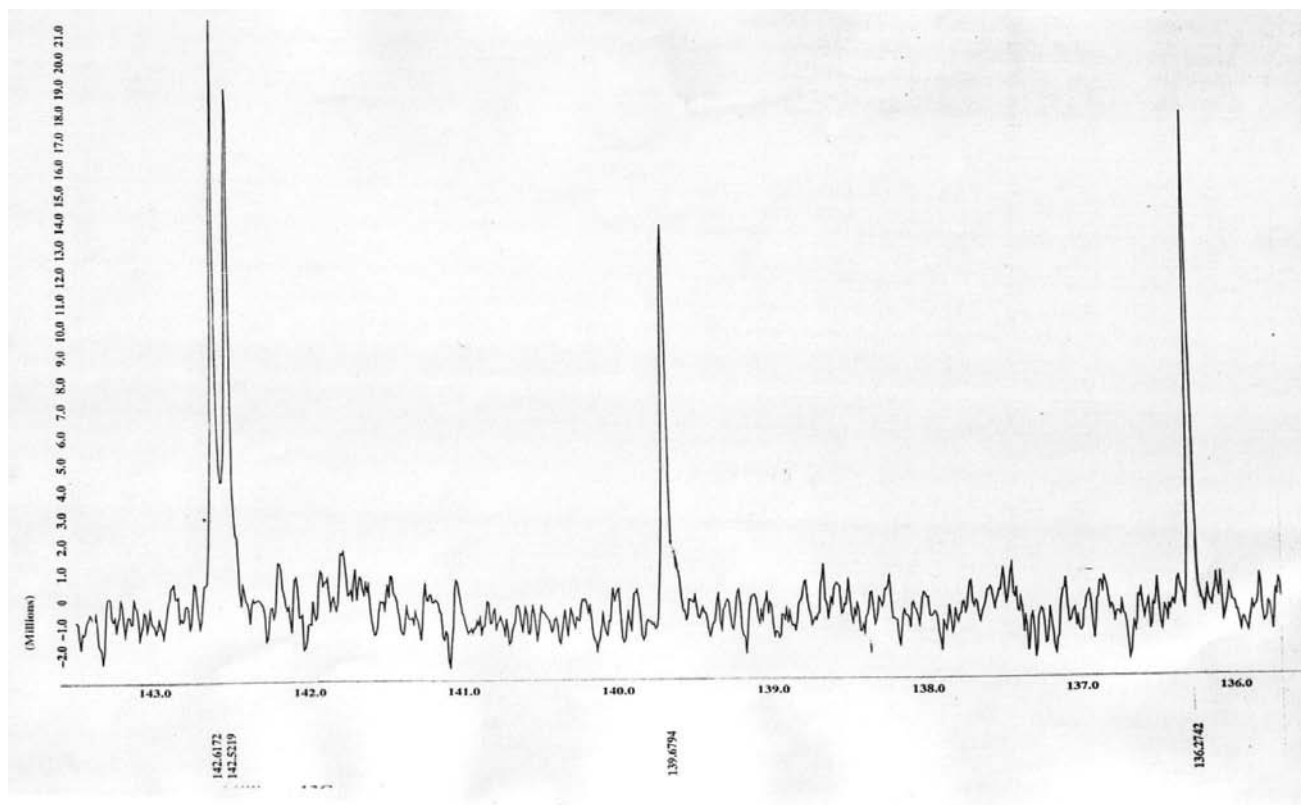


Figure S4.  $^{13}\text{C}$  NMR spectrum of compound 1.

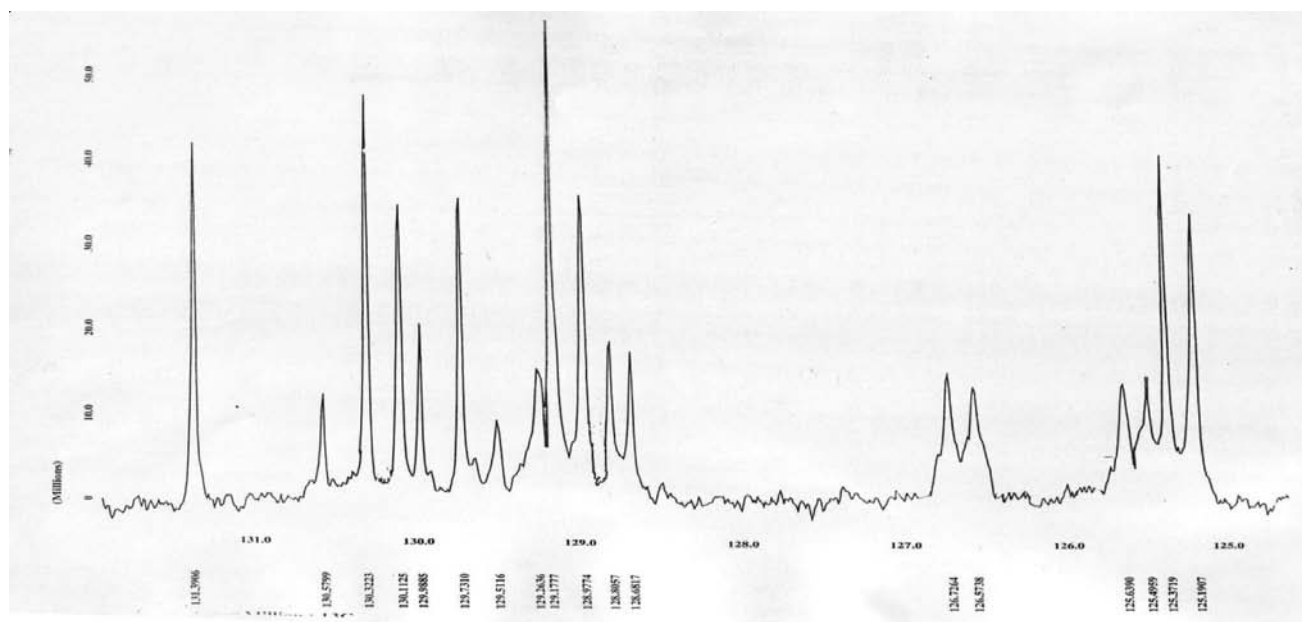


Figure S5.  $^{13}\text{C}$  NMR spectrum of compound 1.

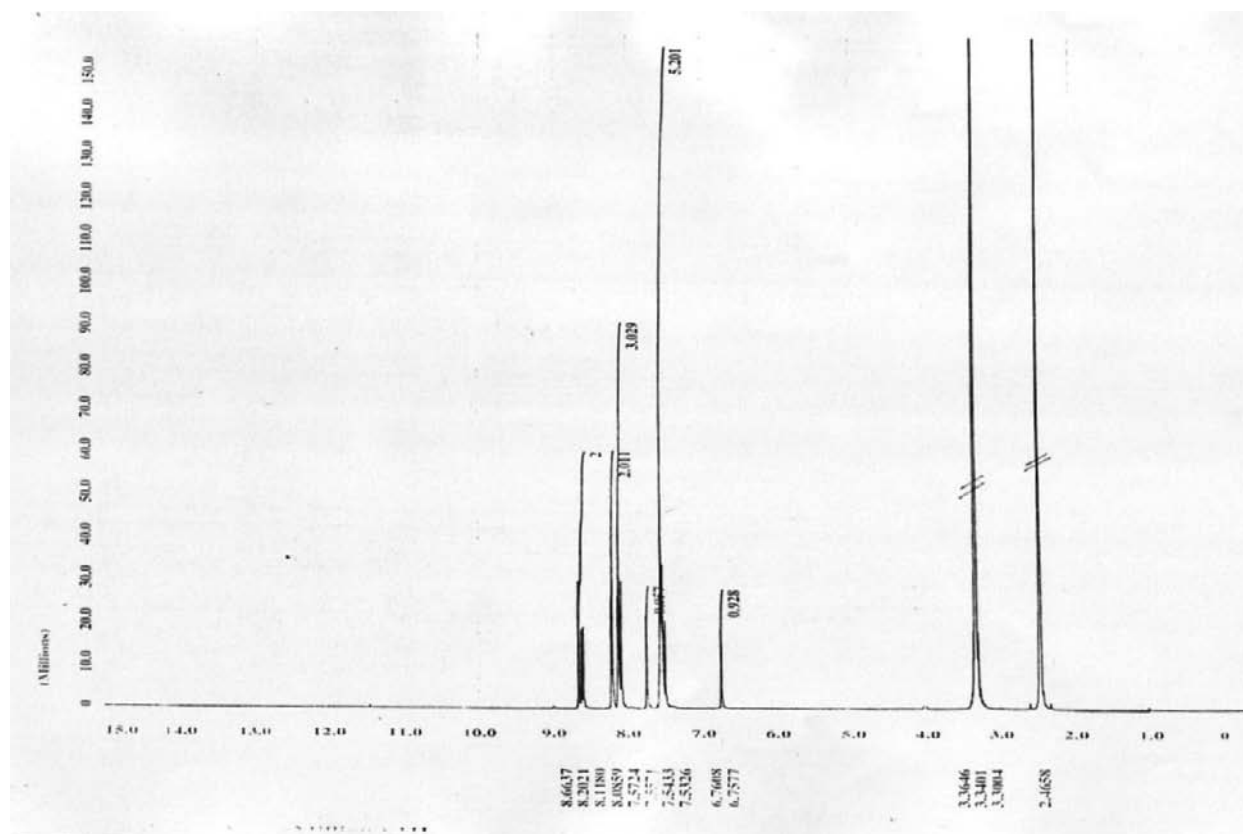


Figure S6. <sup>1</sup>H NMR spectrum of compound 3.

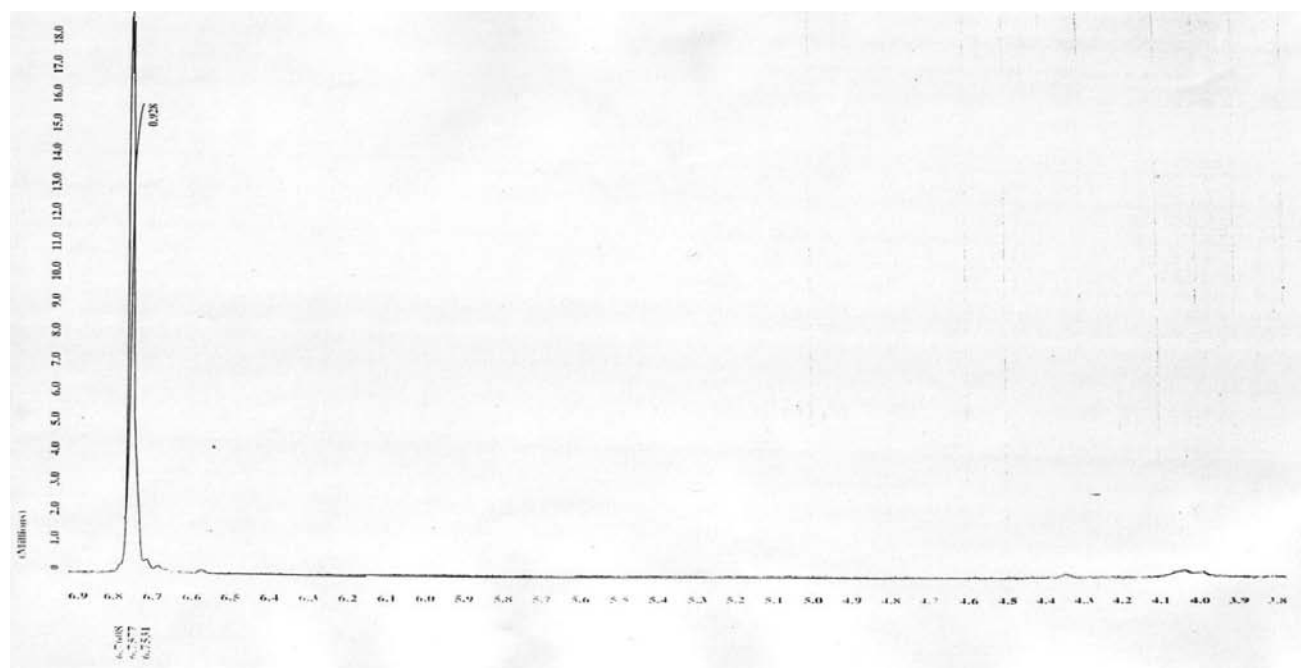


Figure S7. <sup>1</sup>H NMR spectrum of compound 3.

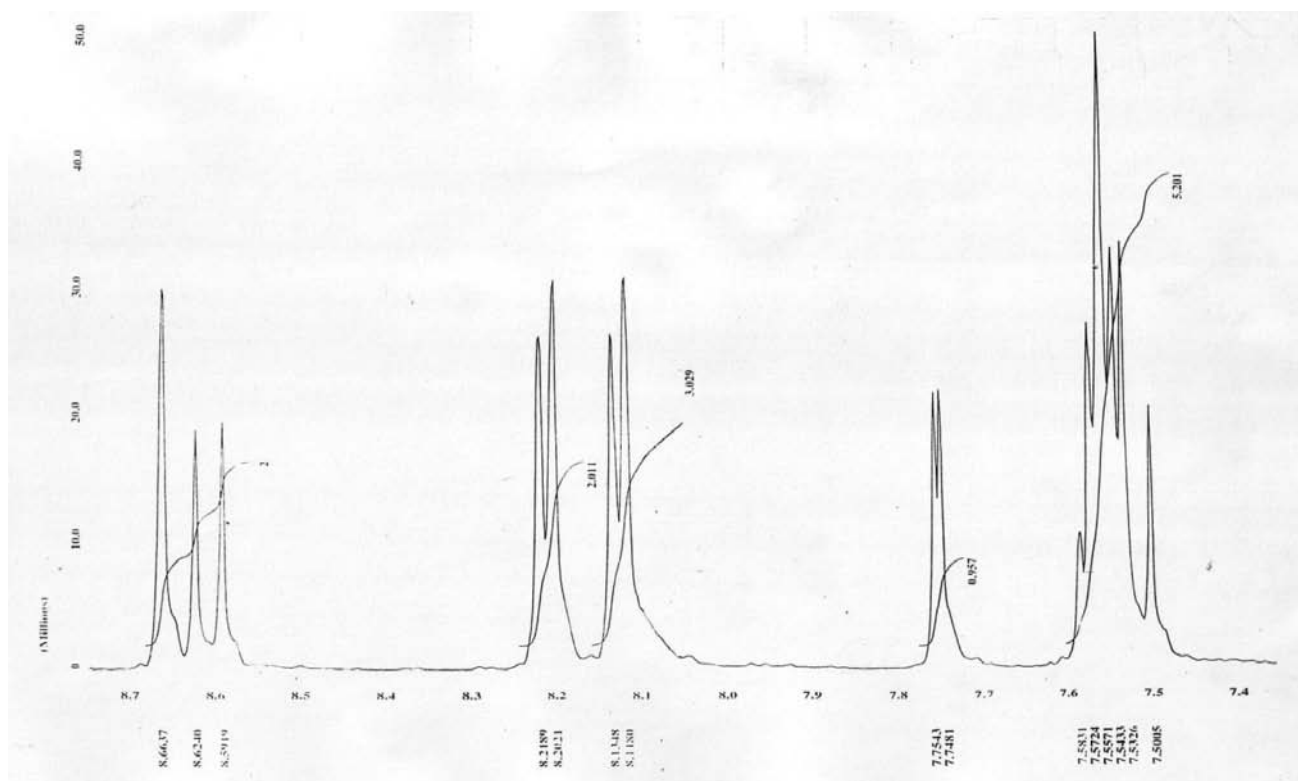


Figure S8. <sup>1</sup>H NMR spectrum of compound 3.

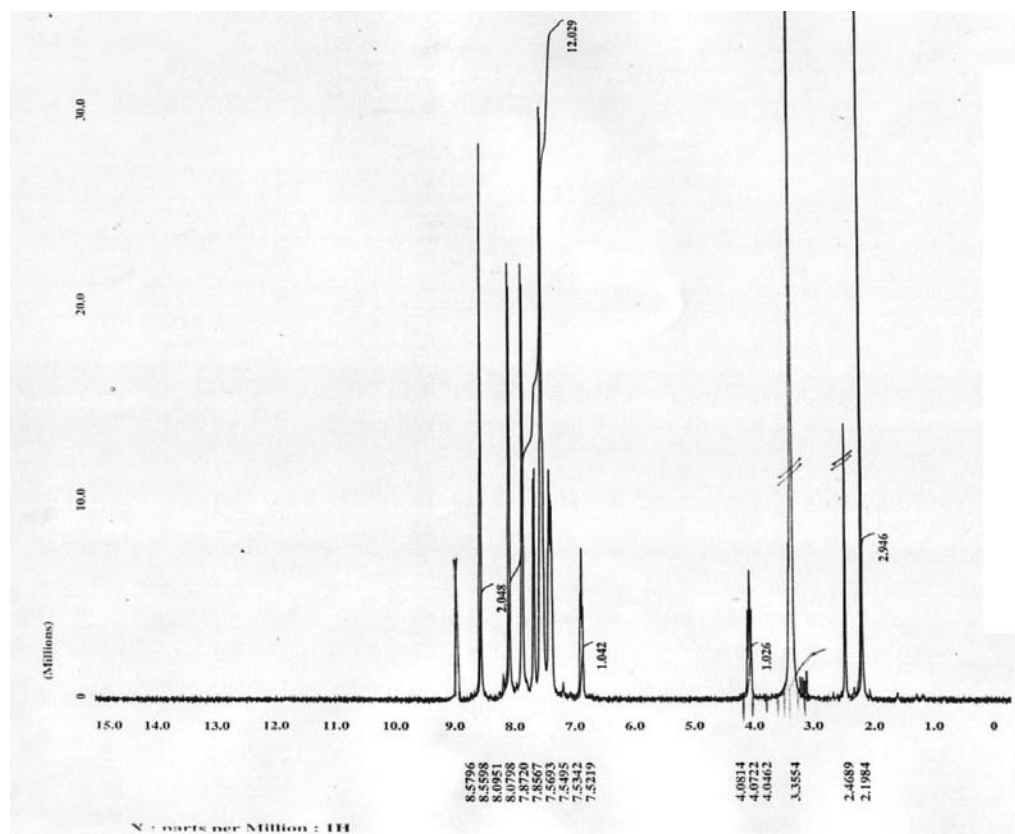
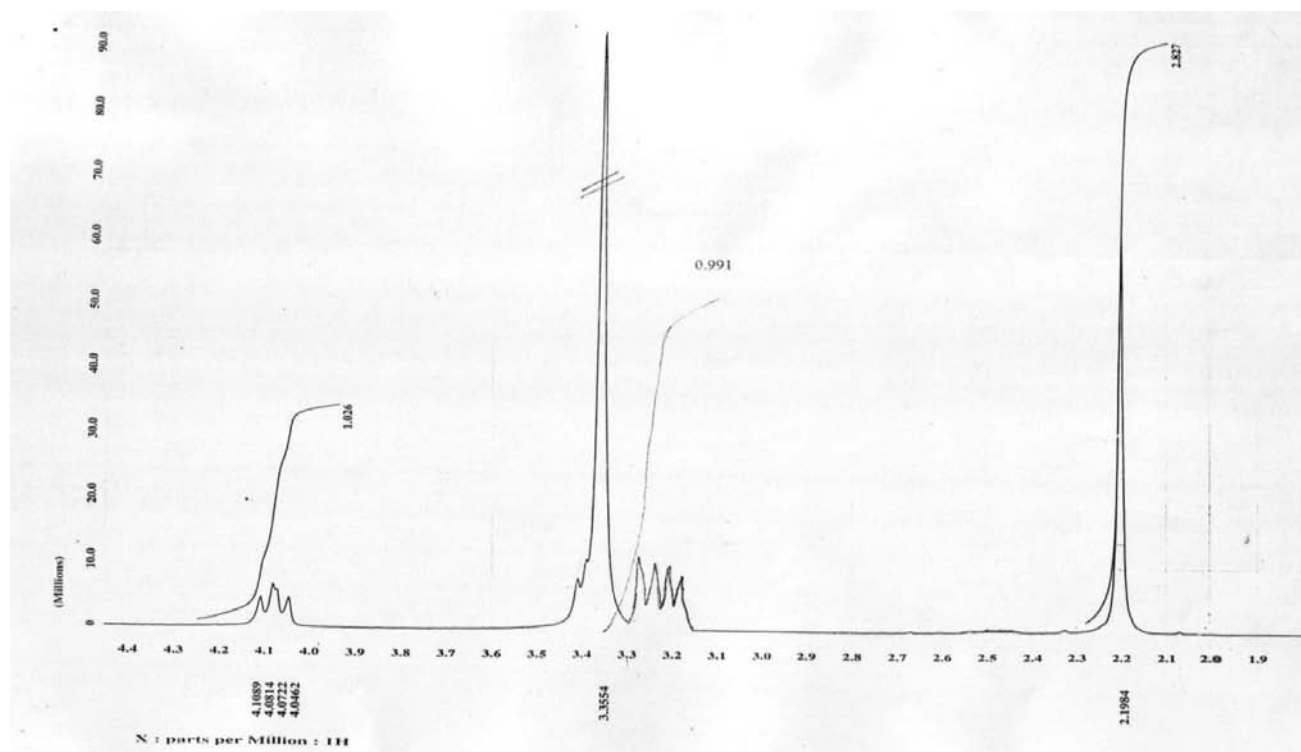
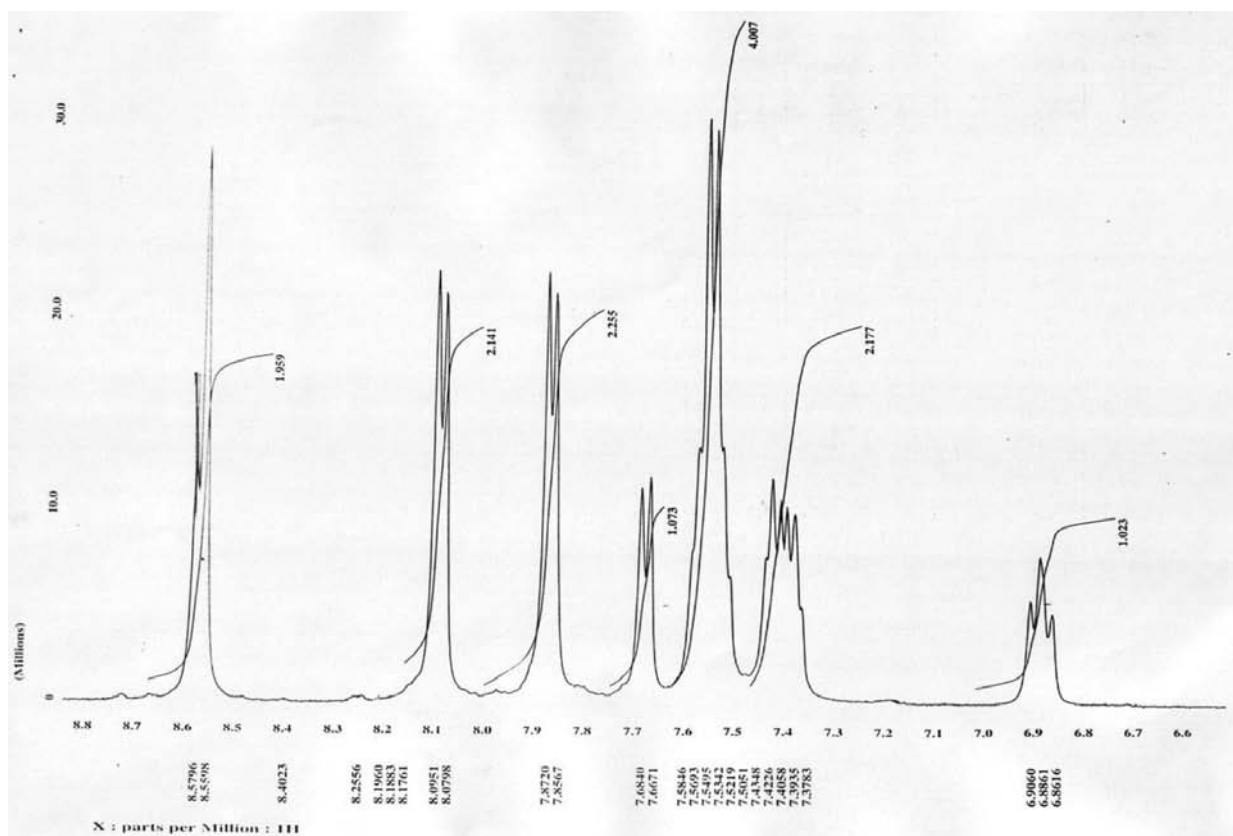


Figure S9. <sup>1</sup>H NMR spectrum of compound 5.

Figure S10. <sup>1</sup>H NMR spectrum of compound 5.Figure S11. <sup>1</sup>H NMR spectrum of compound 5.

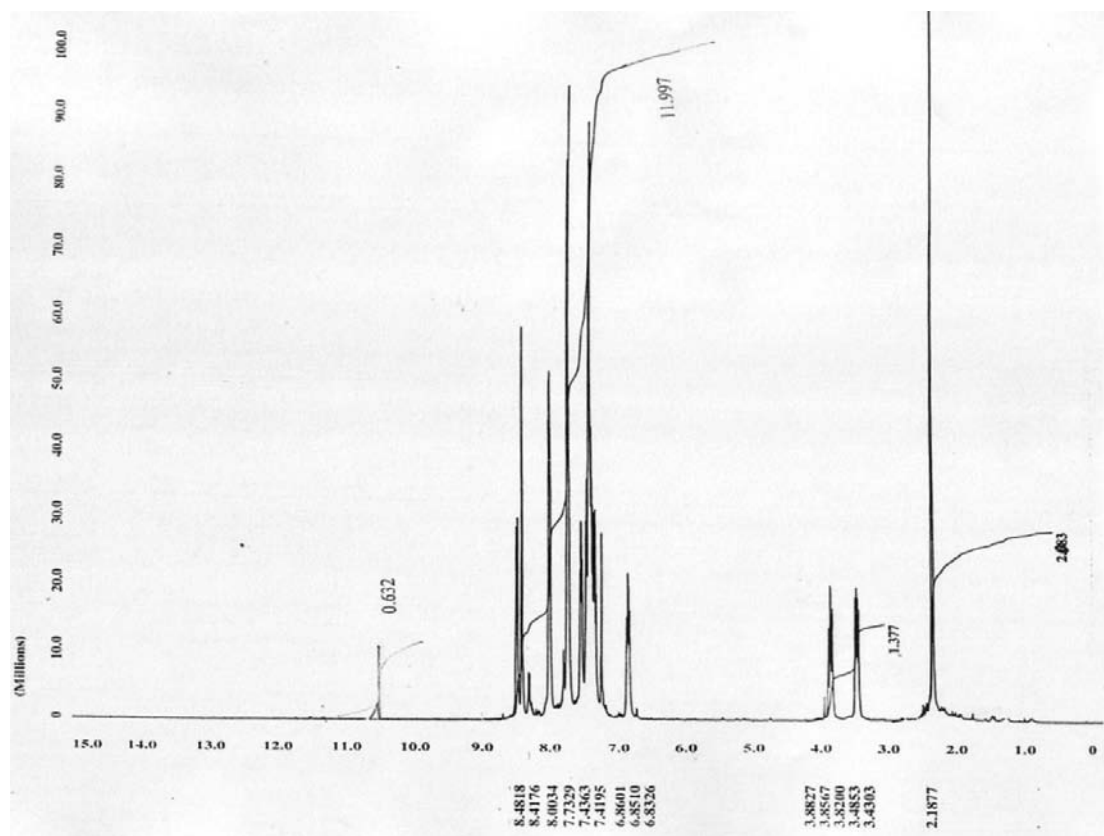


Figure S12.  $^1\text{H}$  NMR spectrum of compound 8.

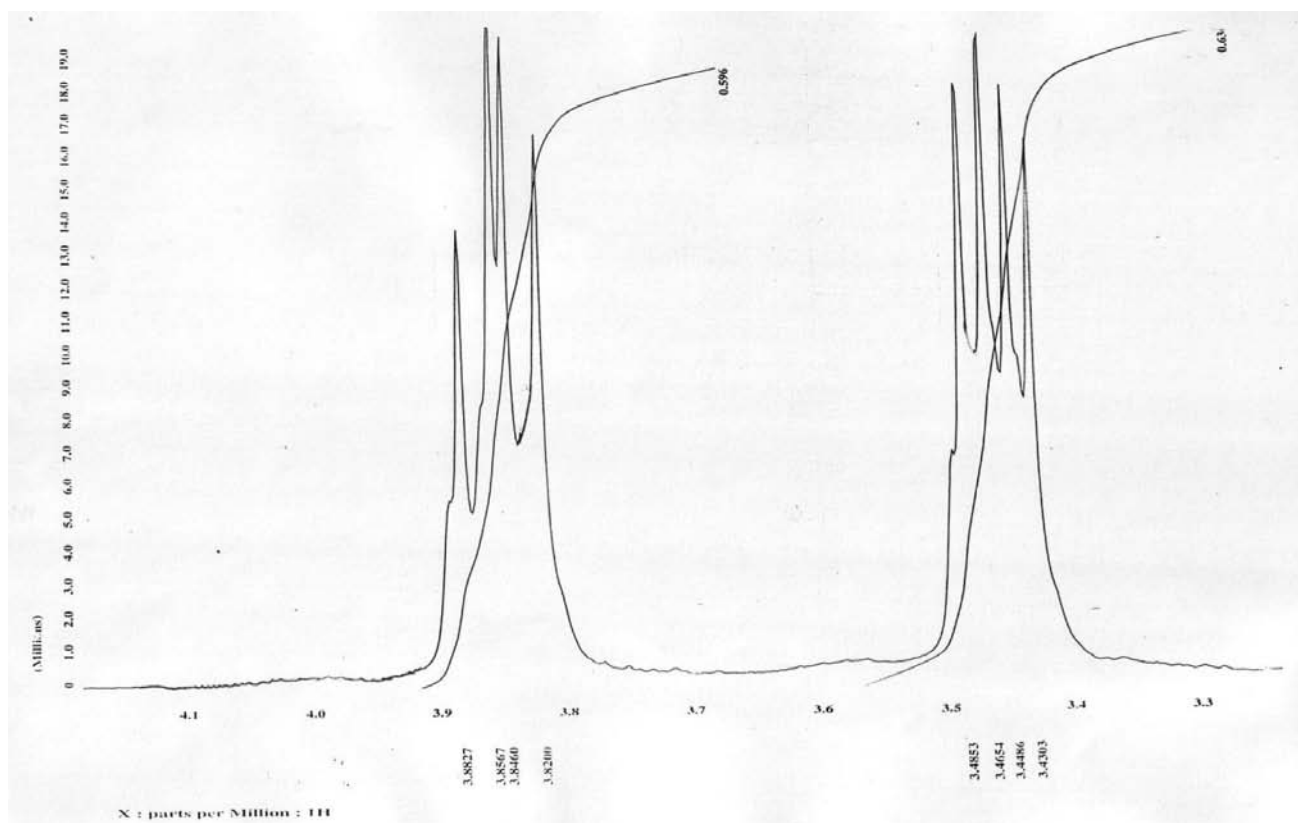
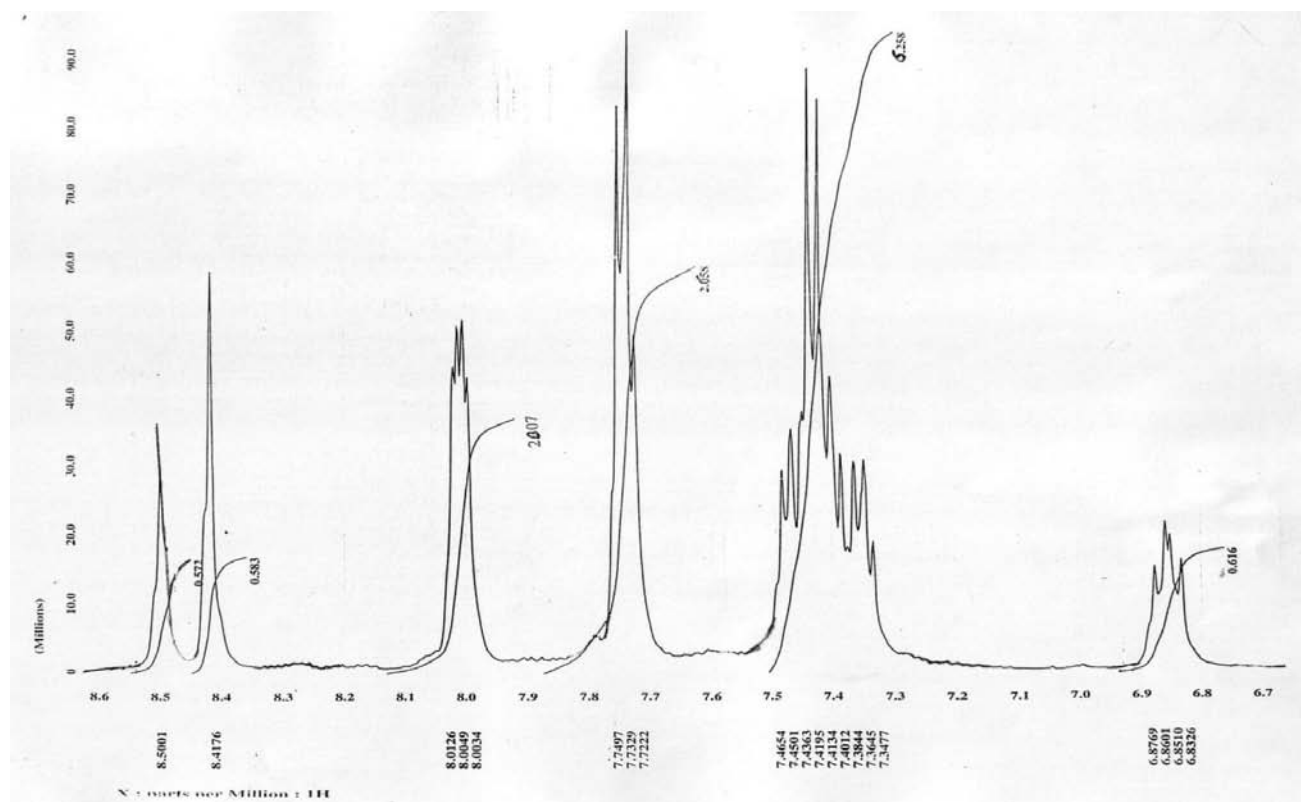
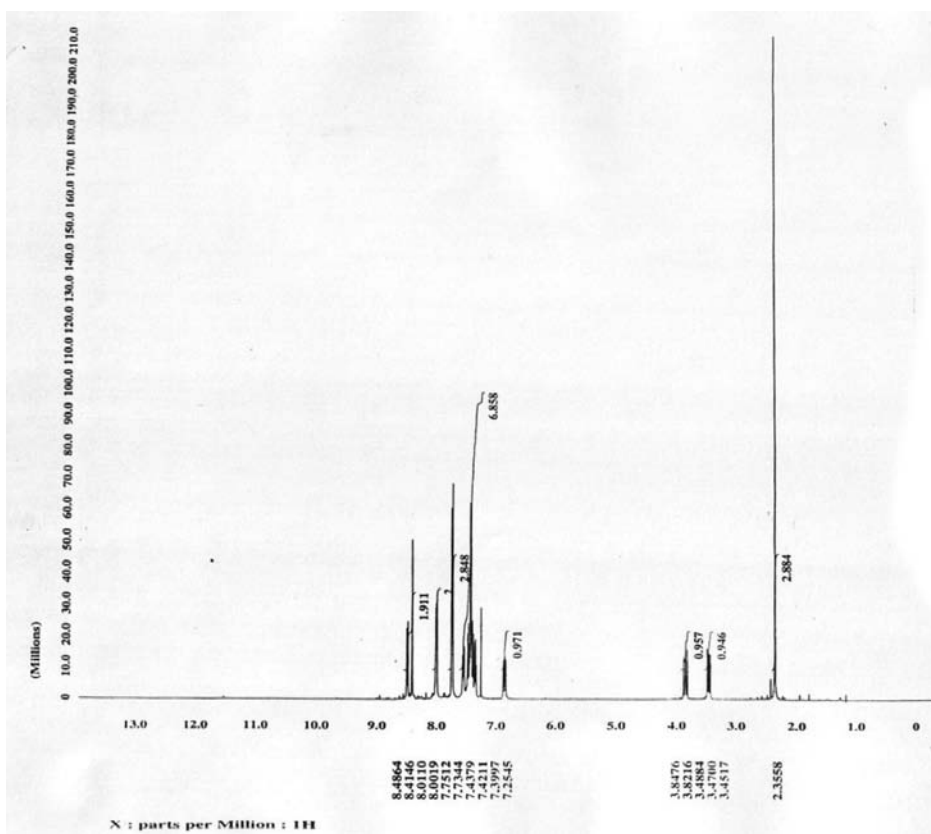


Figure S13.  $^1\text{H}$  NMR spectrum of compound 8.

Figure S14. <sup>1</sup>H NMR spectrum of compound 8.Figure S15. <sup>1</sup>H NMR spectrum of compound 9.



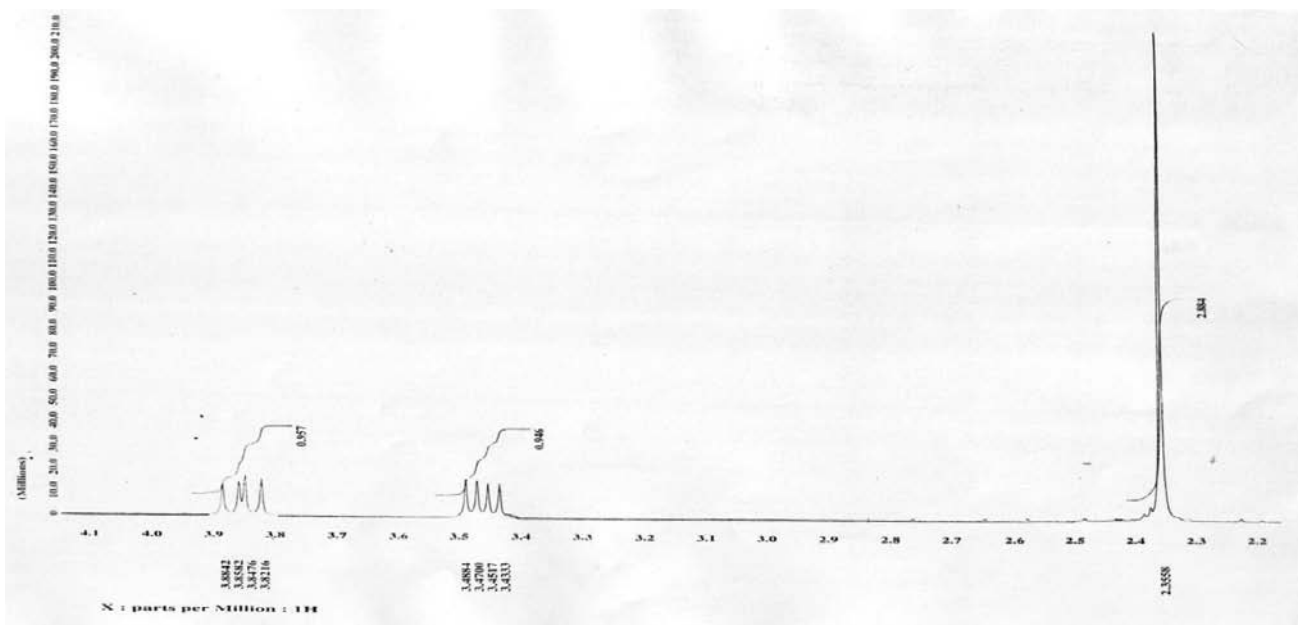


Figure S16.  $^1\text{H}$  NMR spectrum of compound 9.

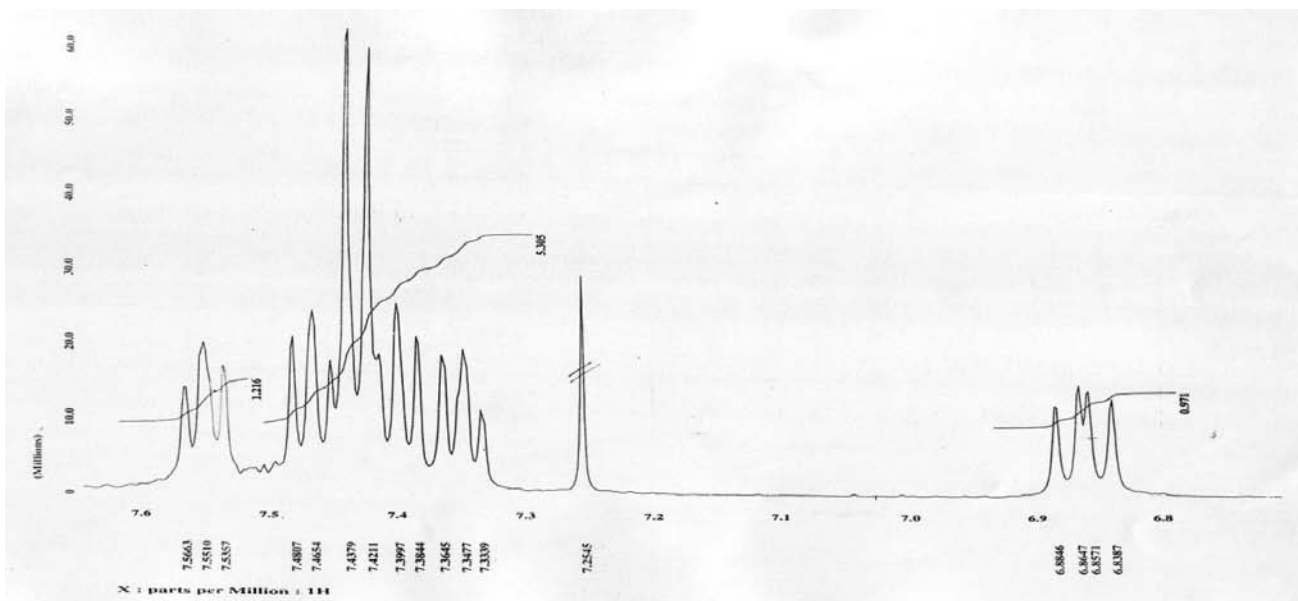


Figure S17.  $^1\text{H}$  NMR spectrum of compound 9.

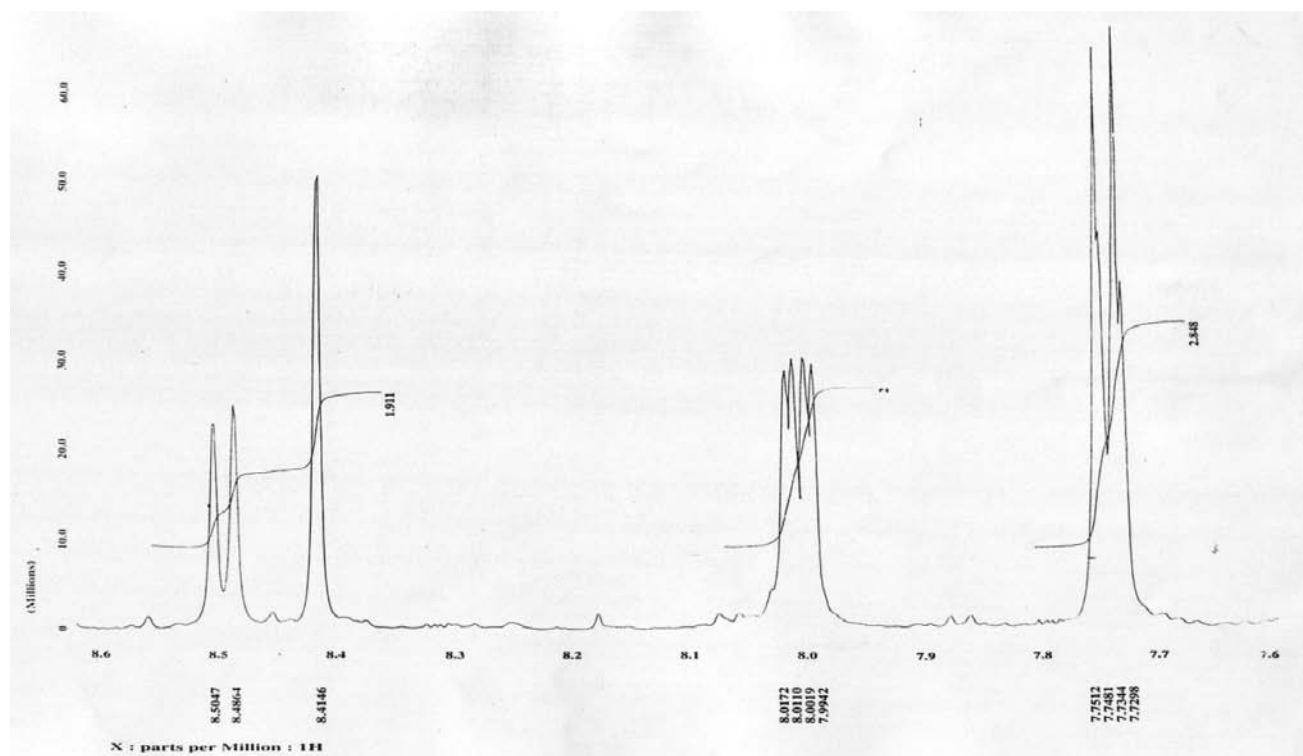
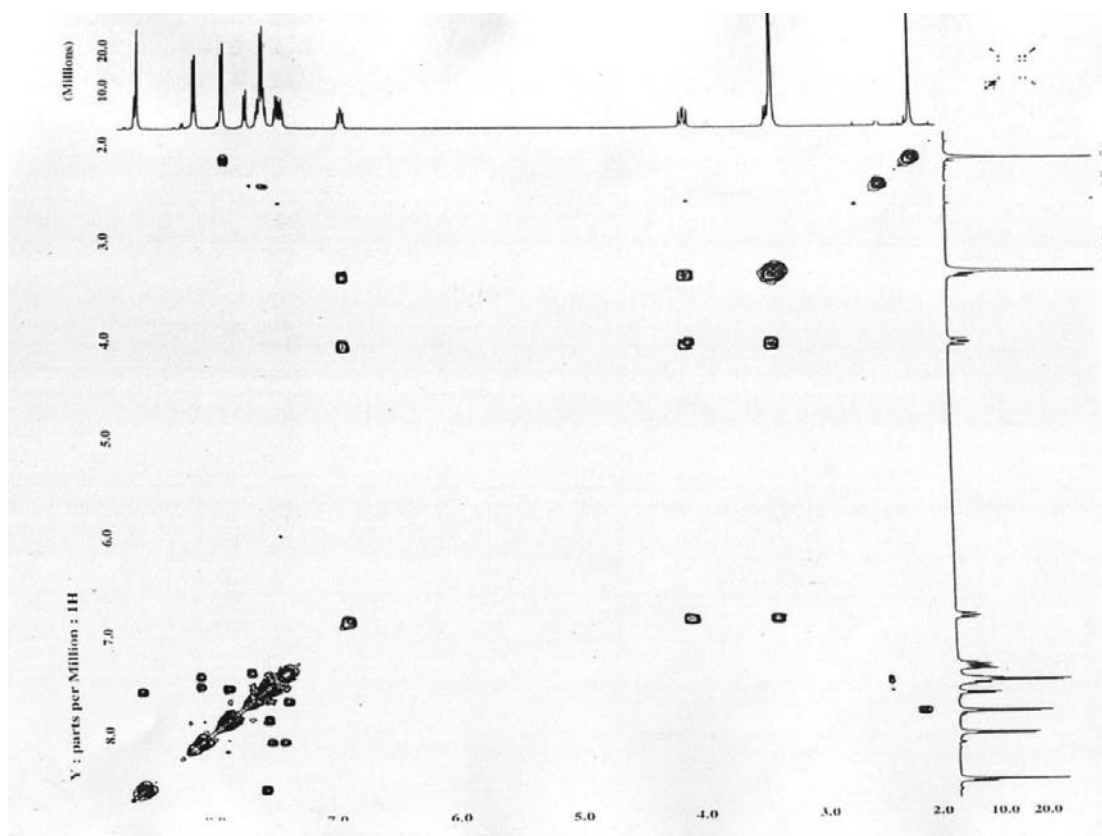
Figure S18.  $^1\text{H}$  NMR spectrum of compound 9.

Figure S19. 2D NMR spectrum of compound 9

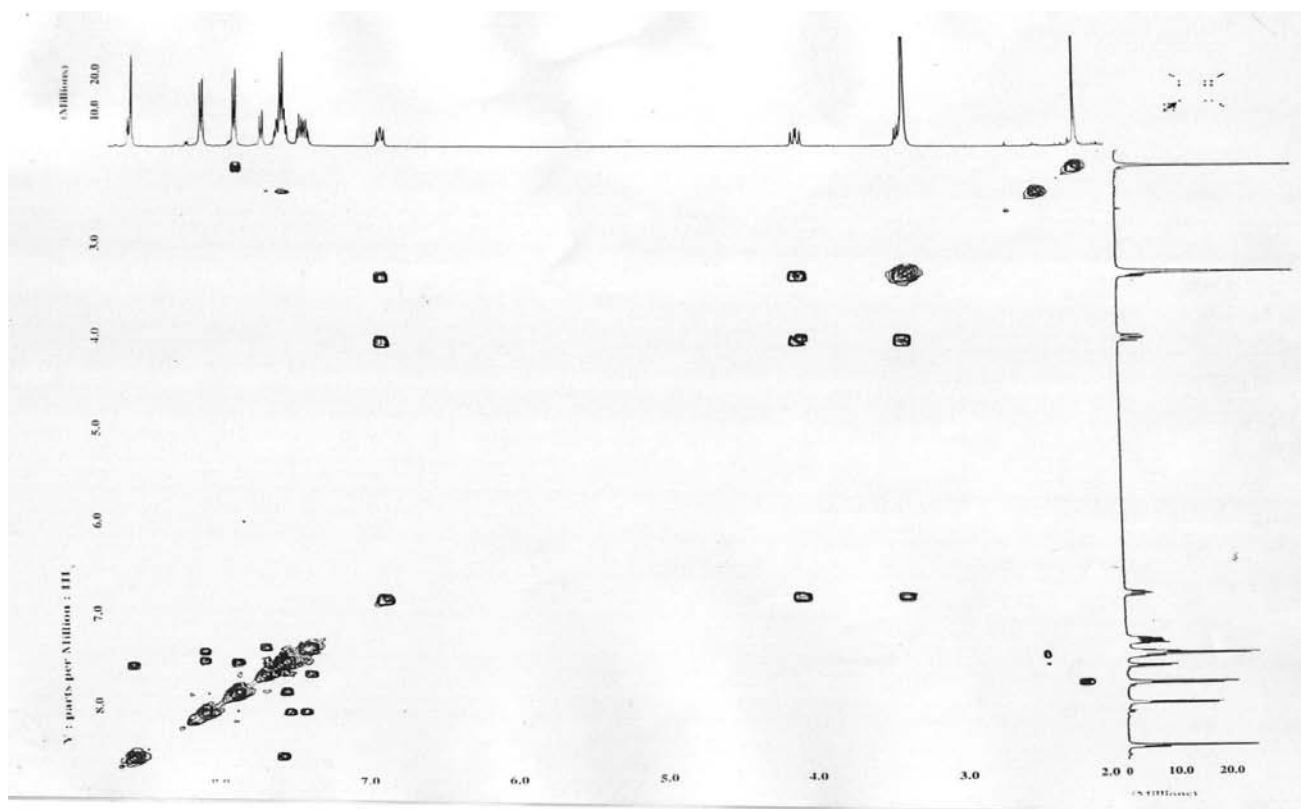


Figure S20. 2D NMR spectrum of compound 9.

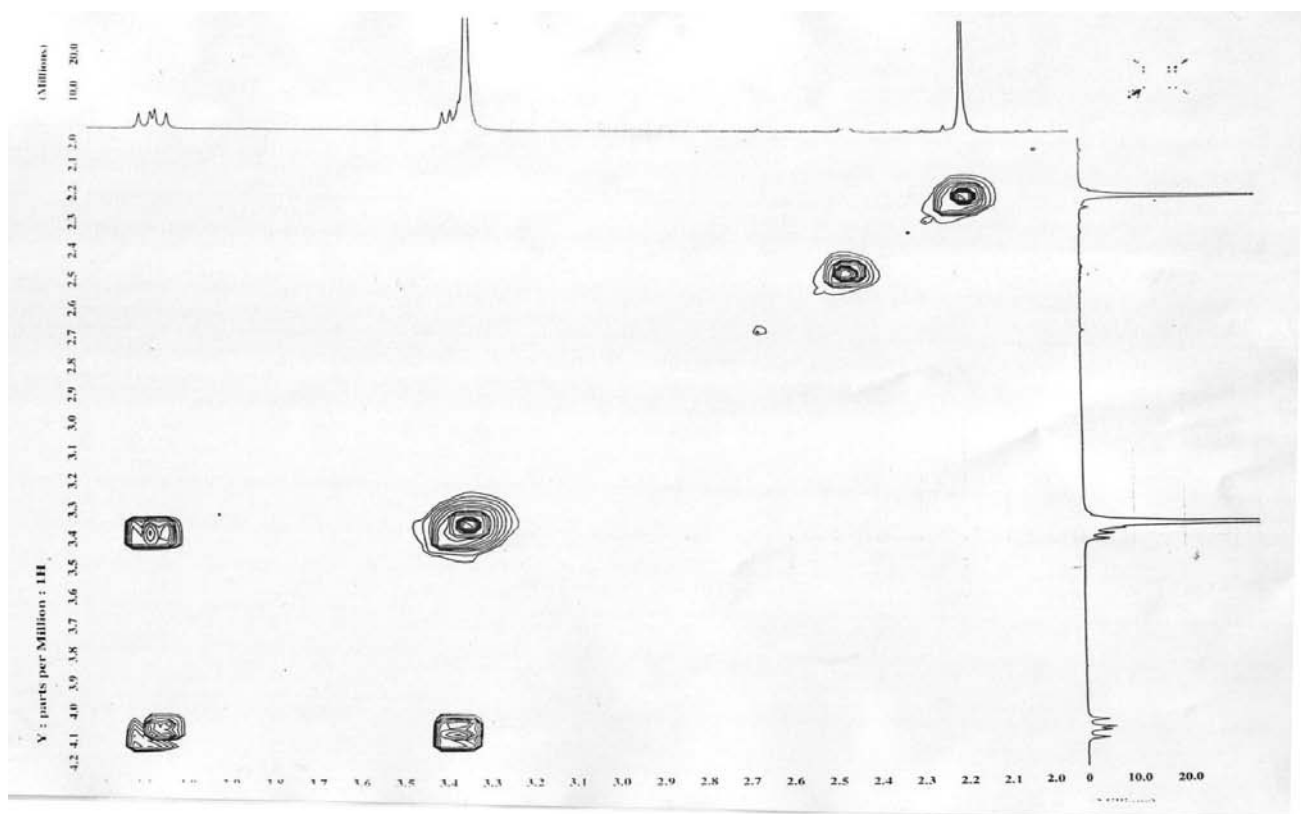


Figure S21. 2D NMR spectrum of compound 9.

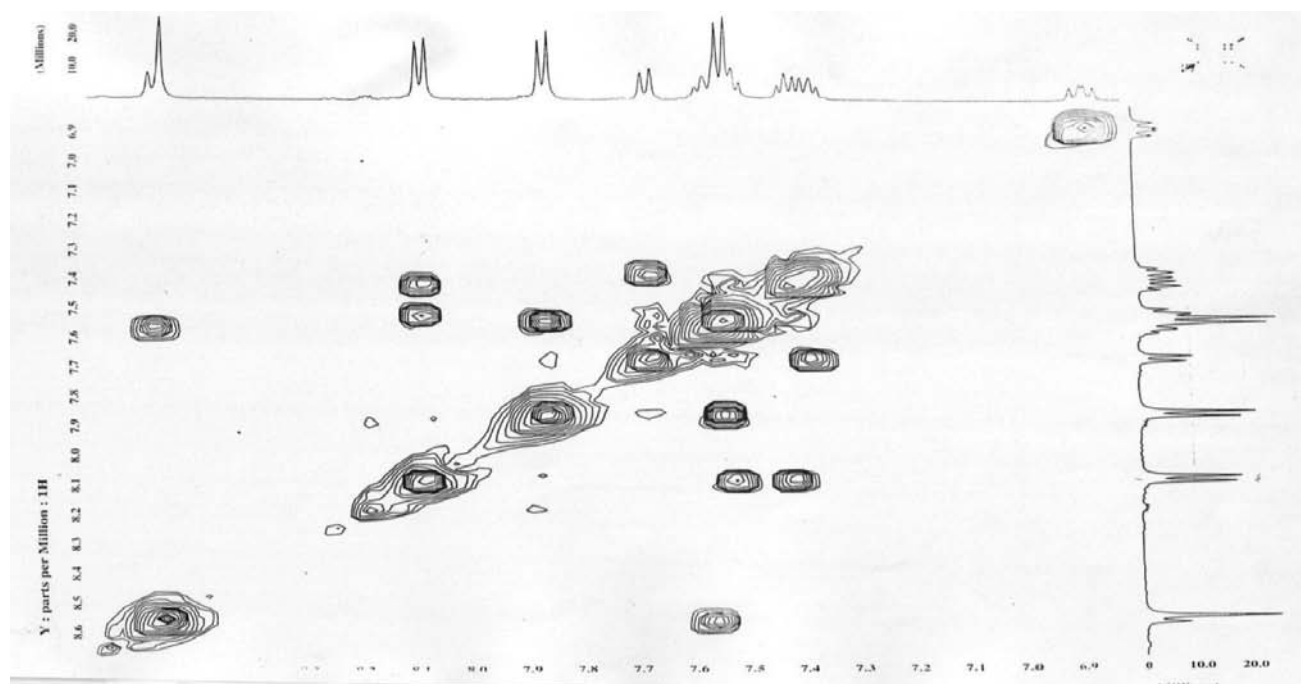


Figure S22. 2D NMR spectrum of compound 9.

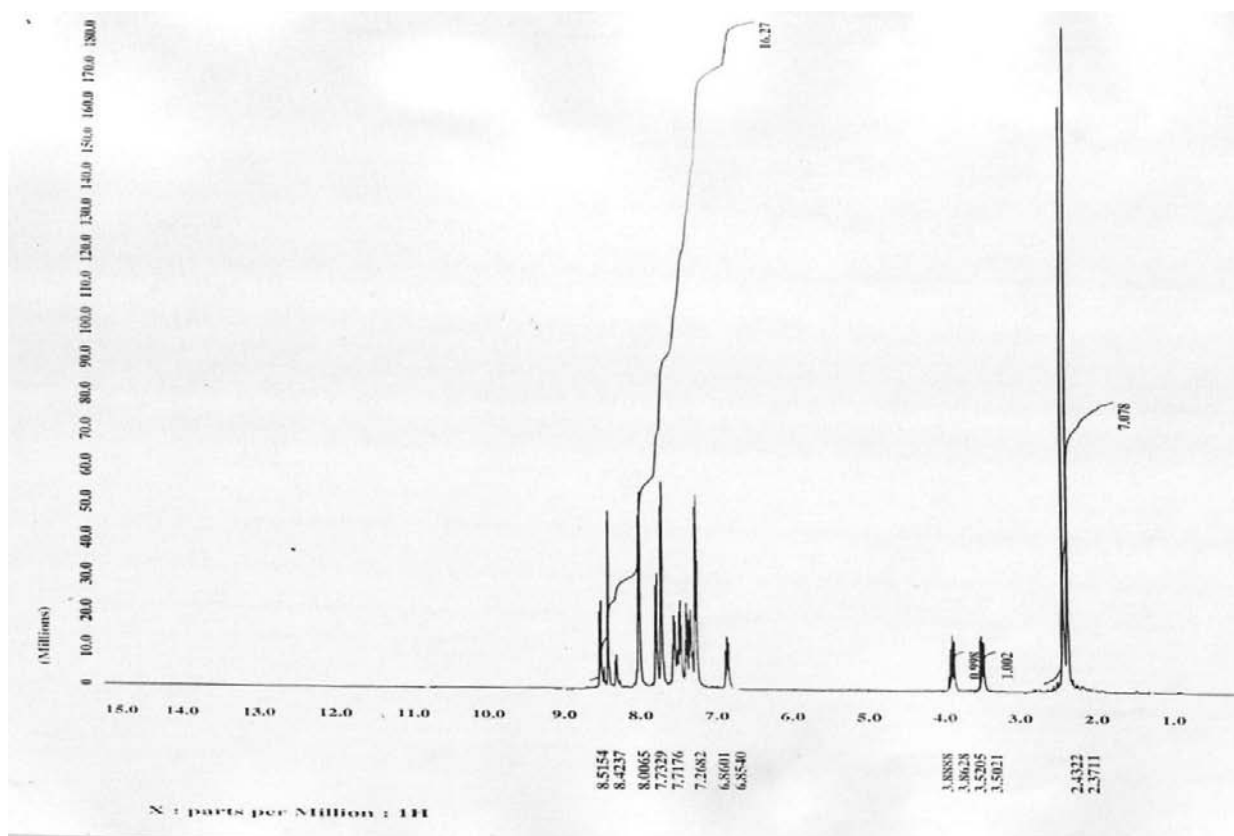


Figure S23. <sup>1</sup>H NMR spectrum of compound 10.

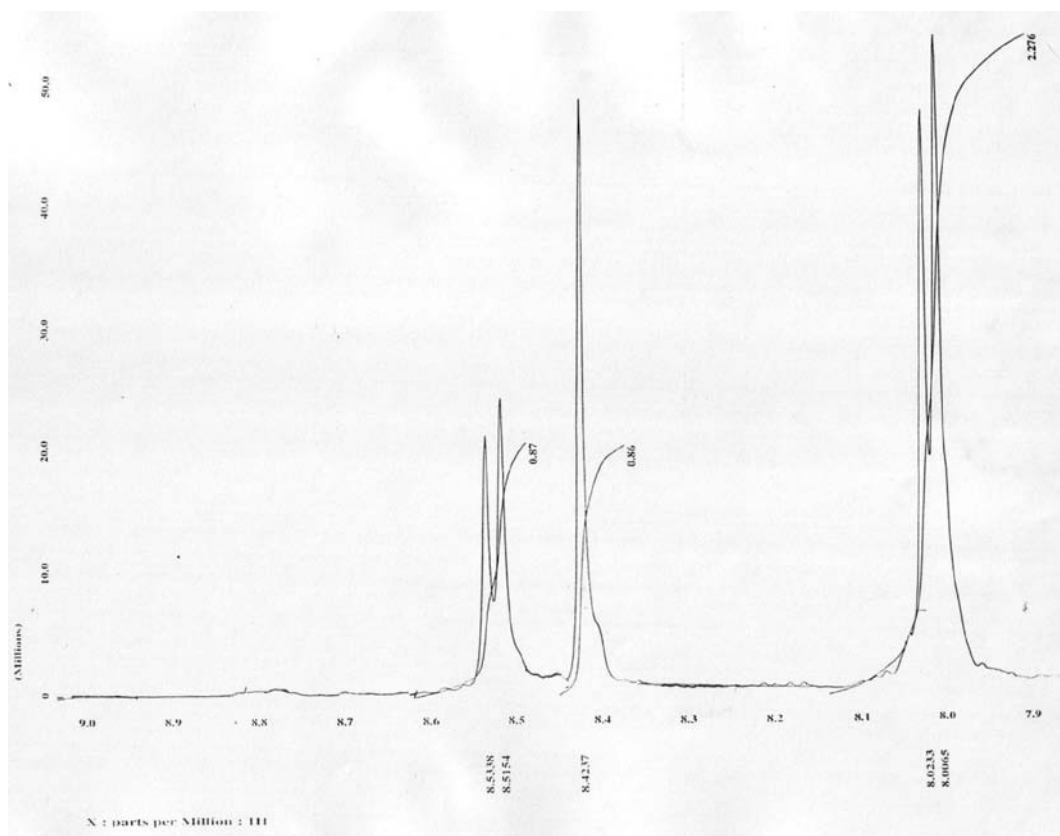


Figure S24. <sup>1</sup>H NMR spectrum of compound 10.

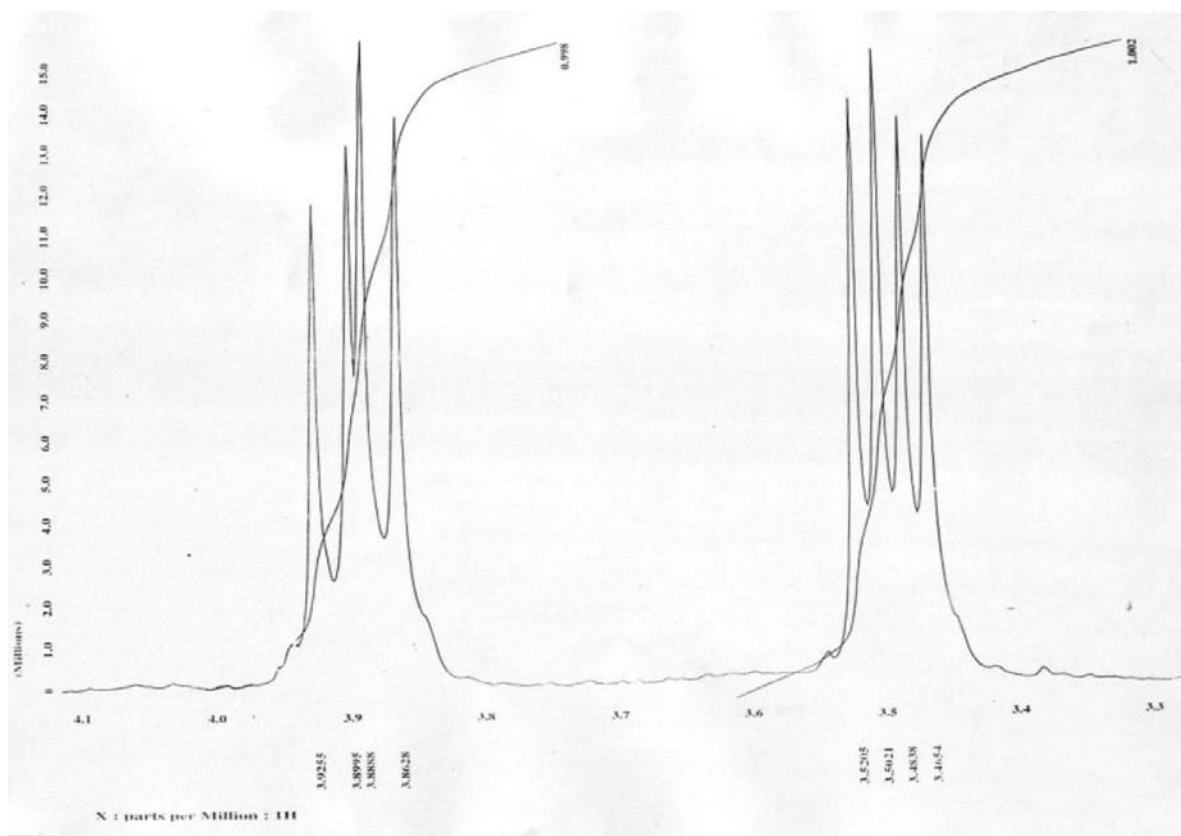


Figure S25. <sup>1</sup>H NMR spectrum of compound 10.

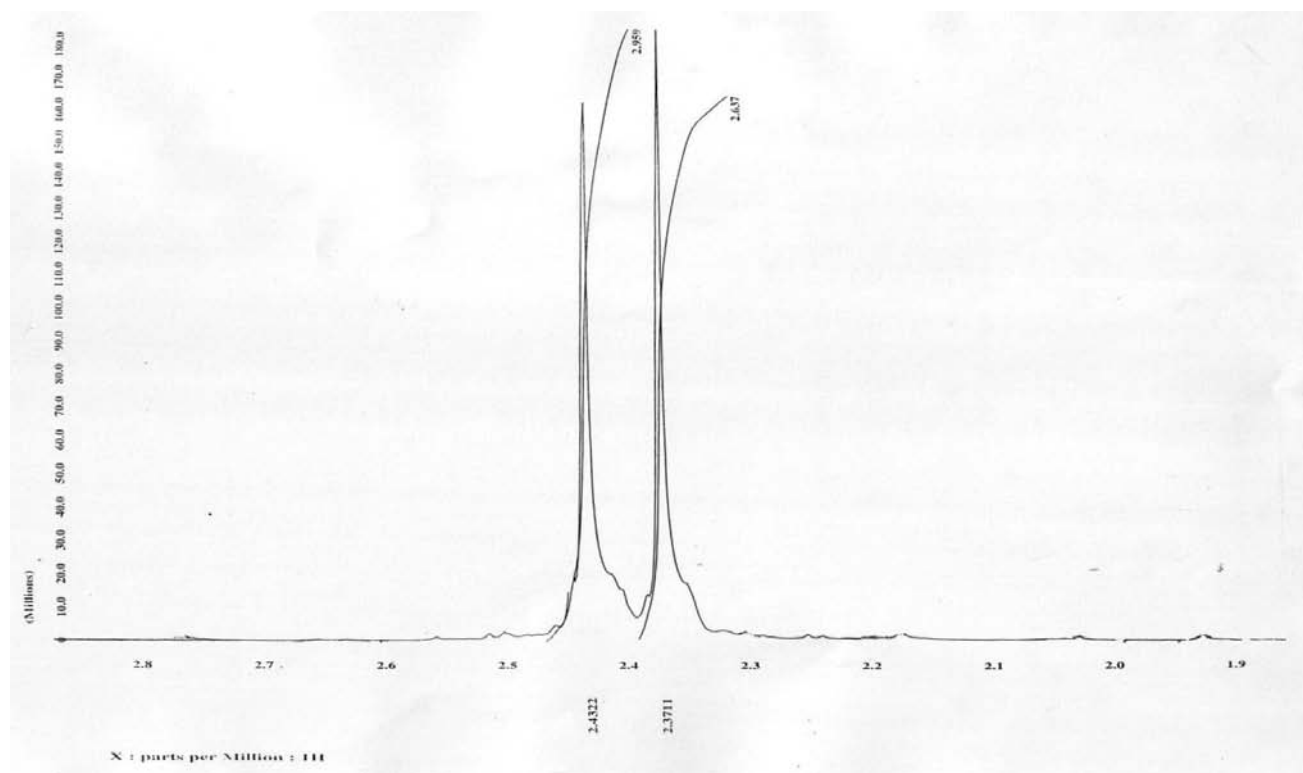


Figure S26.  $^1\text{H}$  NMR spectrum of compound 10.

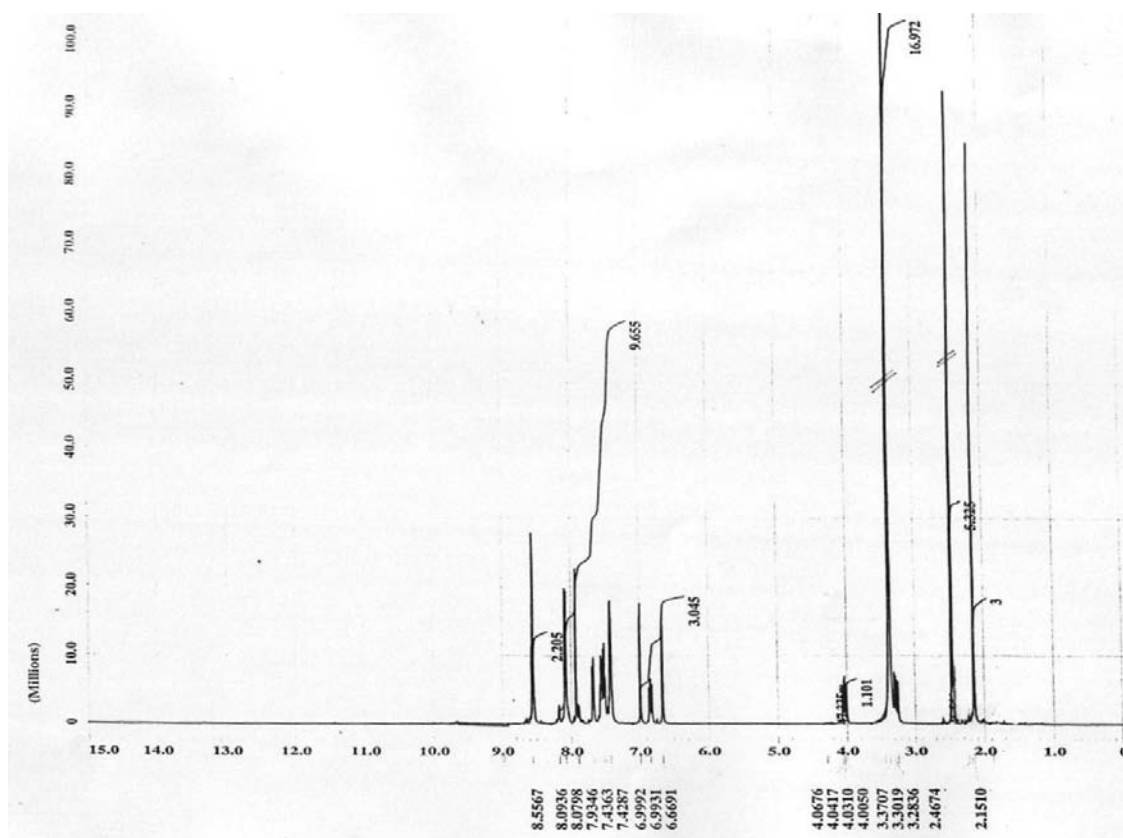


Figure S27.  $^1\text{H}$  NMR spectrum of compound 11.

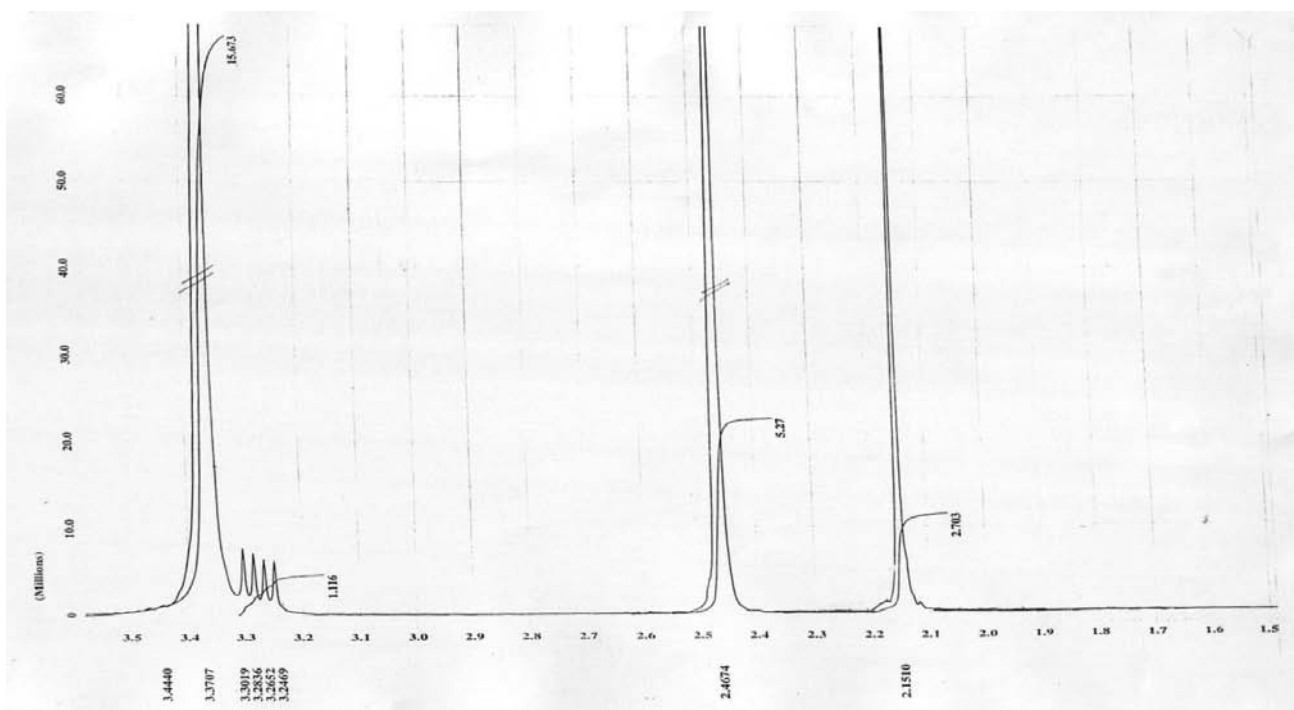


Figure S28.  $^1\text{H}$  NMR spectrum of compound 11.

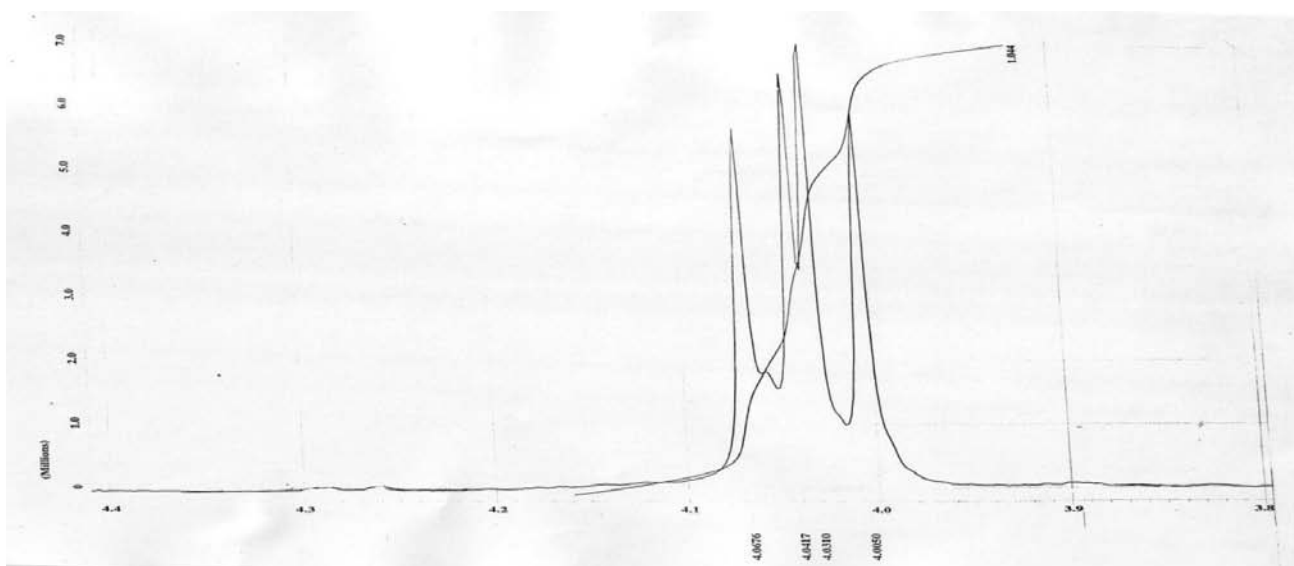
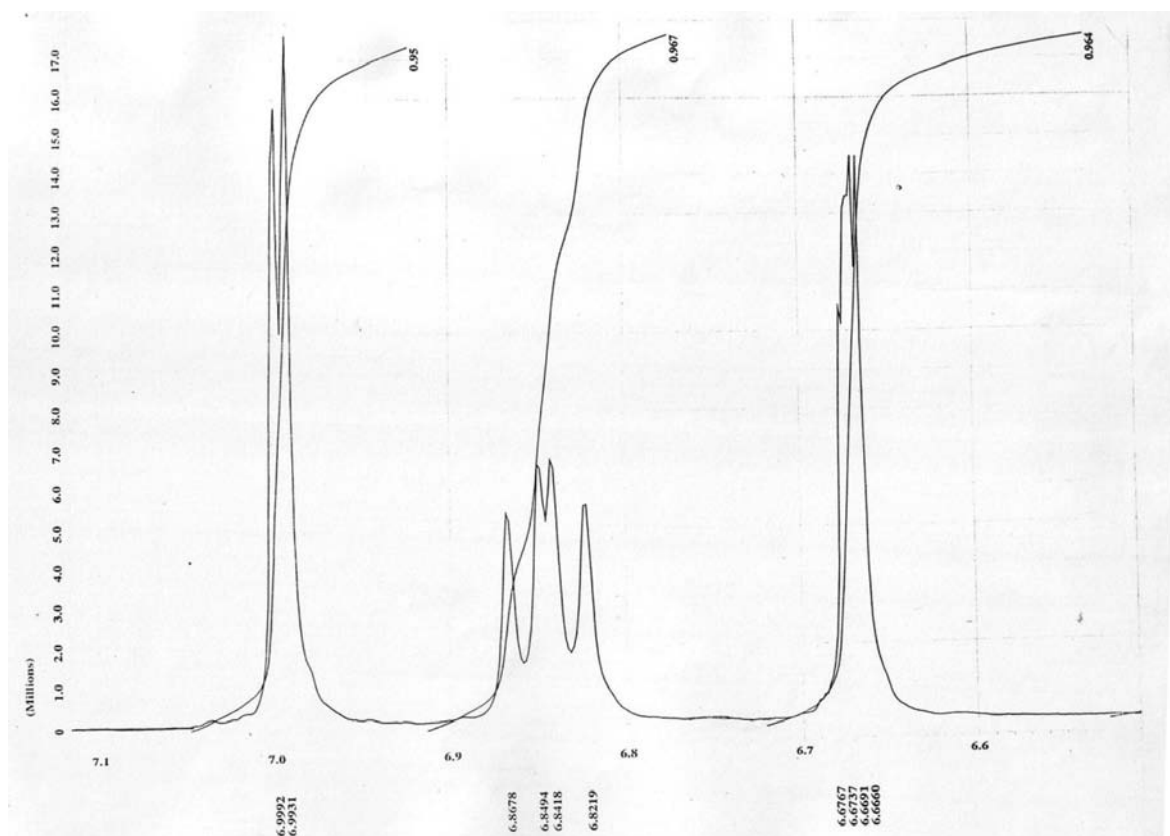
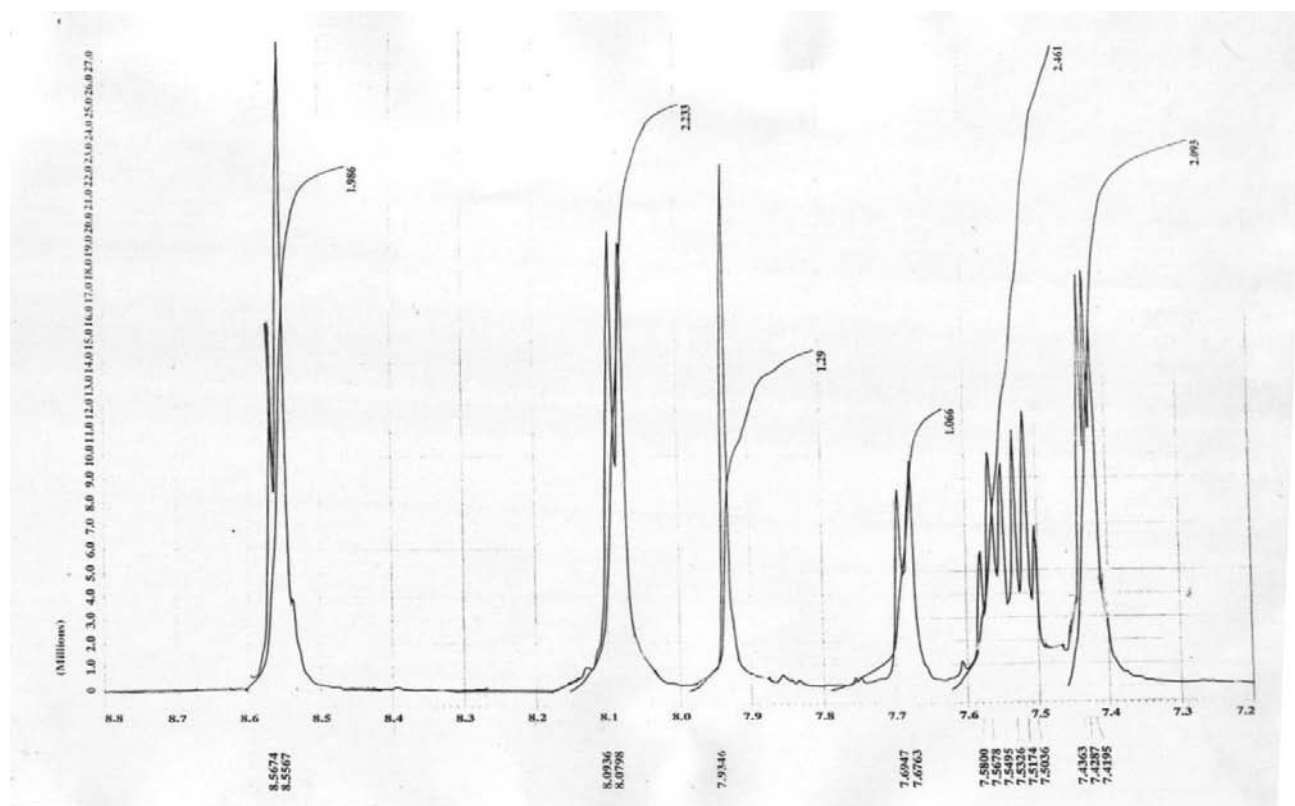
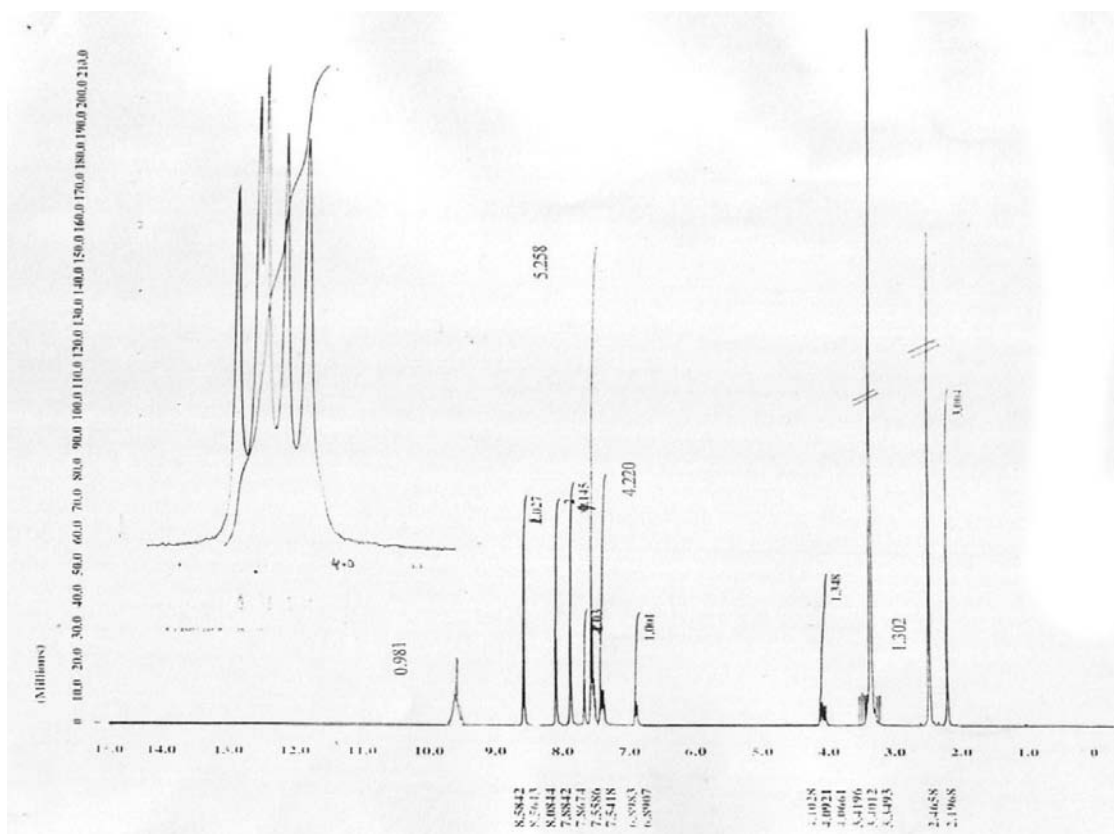
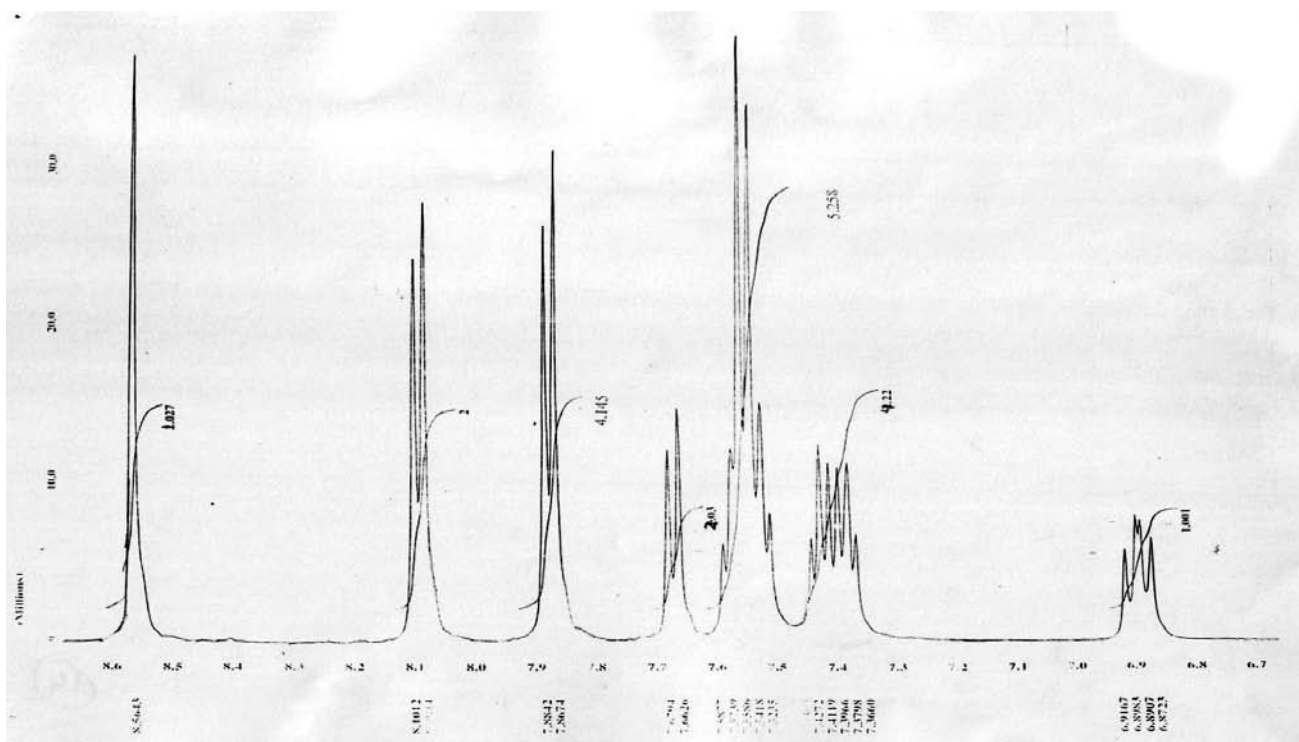
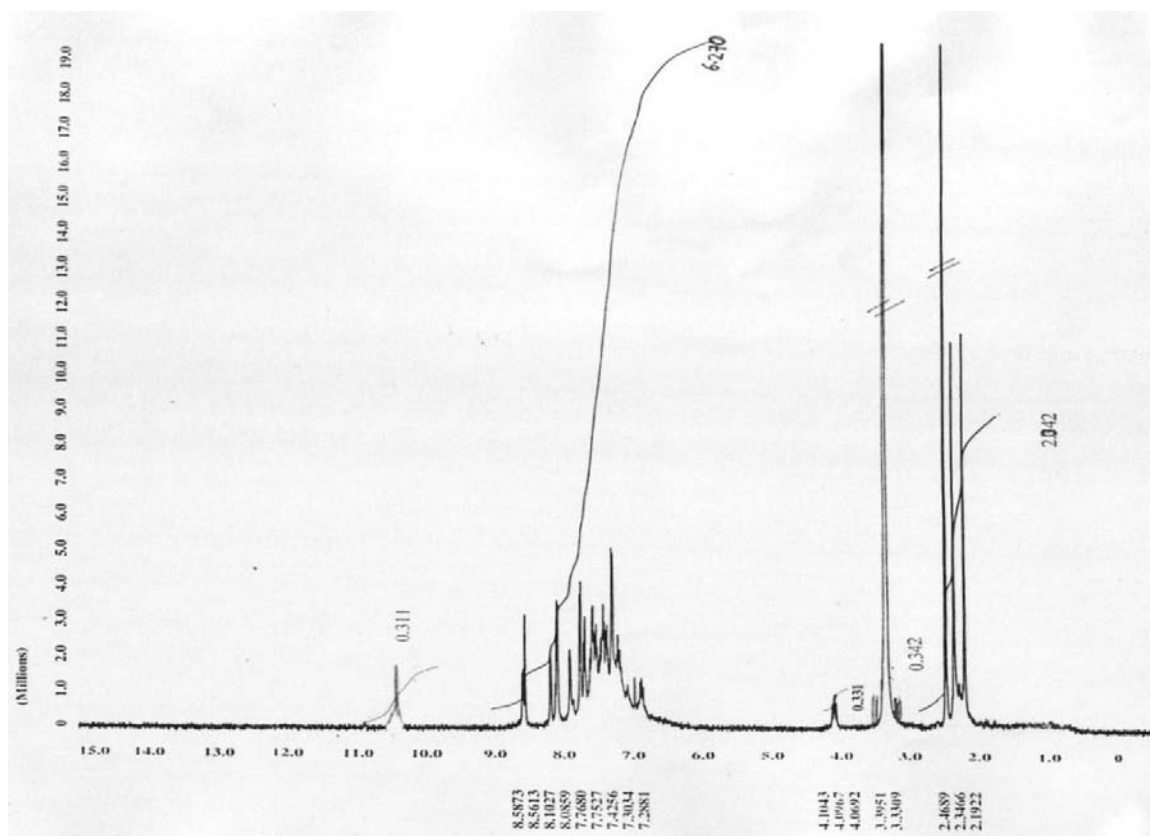
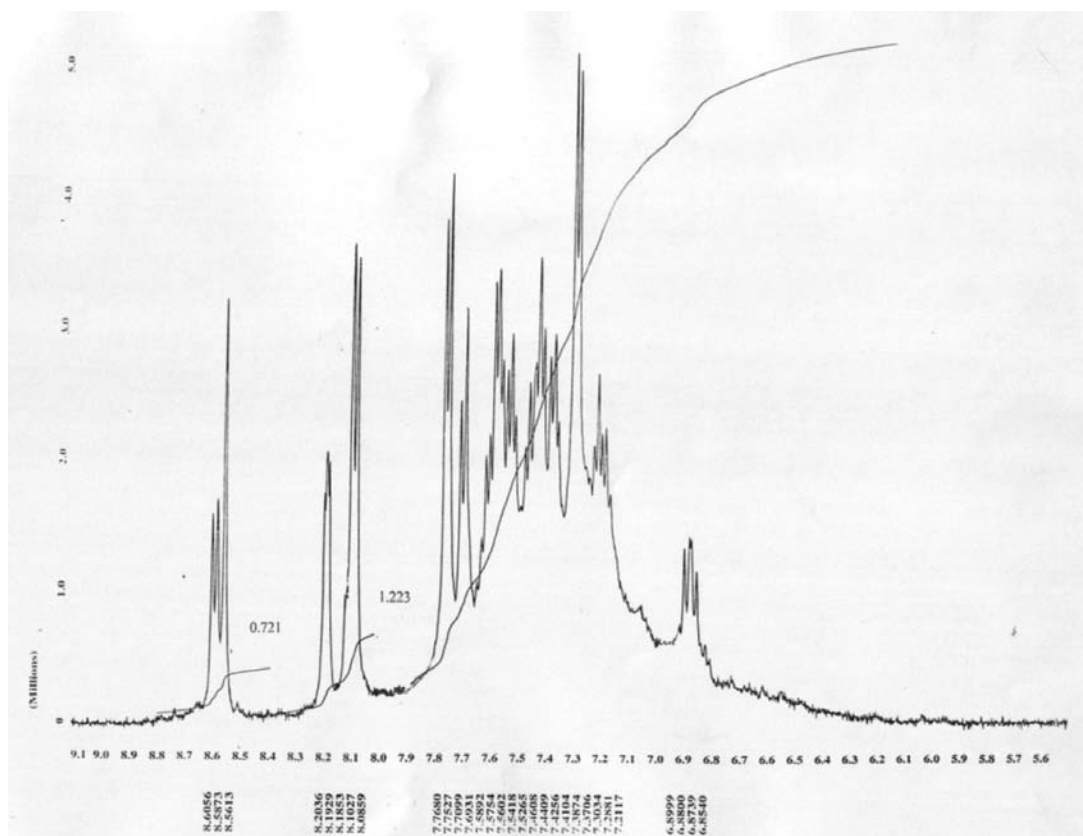


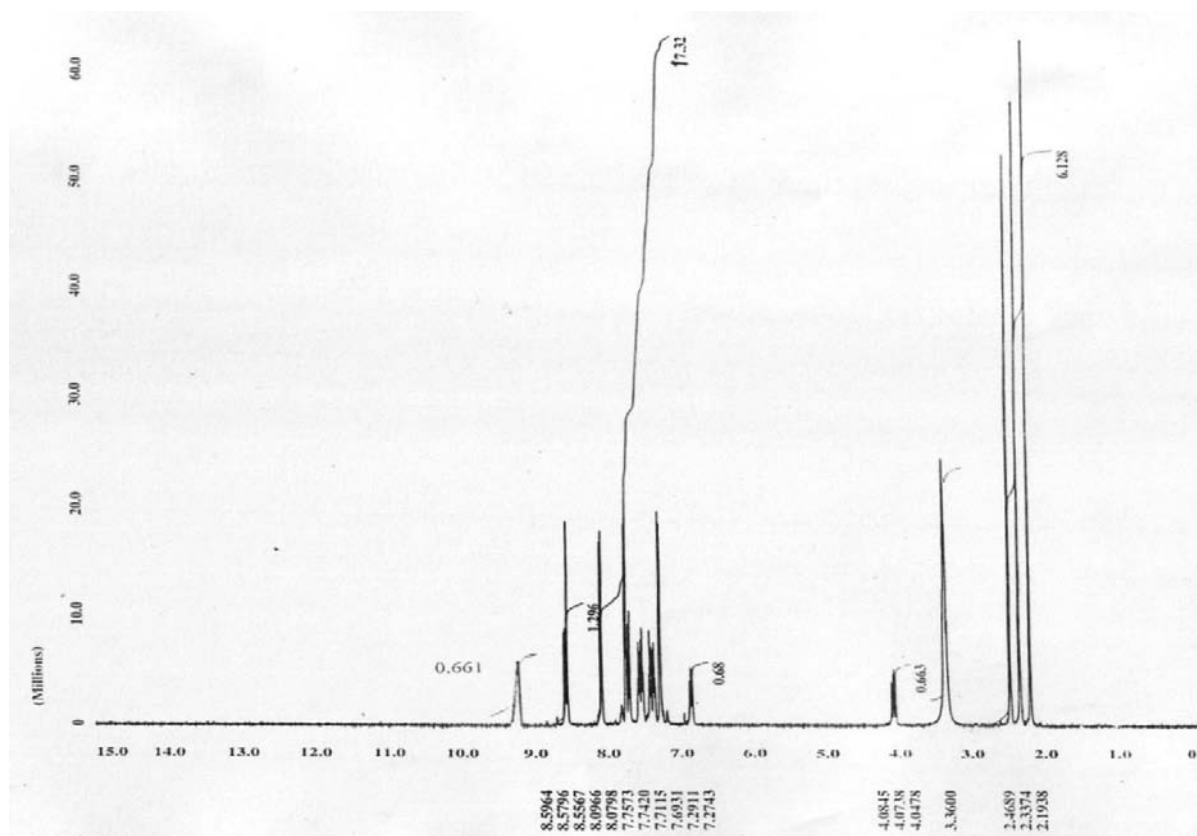
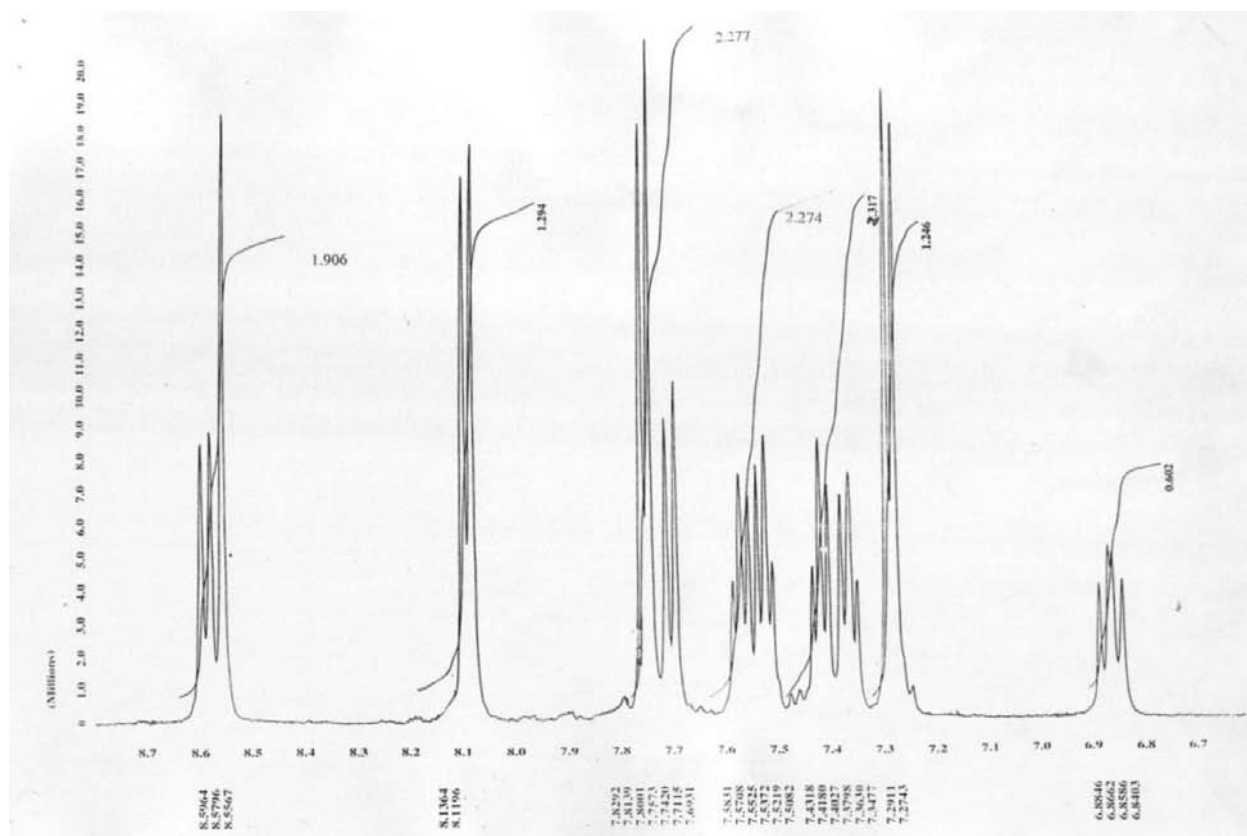
Figure S29.  $^1\text{H}$  NMR spectrum of compound 11.

Figure S30. <sup>1</sup>H NMR spectrum of compound 11.Figure S31. <sup>1</sup>H NMR spectrum of compound 11.



Figure S32.  $^1\text{H}$  NMR spectrum of compound 14.Figure S33.  $^1\text{H}$  NMR spectrum of compound 14.

Figure S34.  $^1\text{H}$  NMR spectrum of compound 15.Figure S35.  $^1\text{H}$  NMR spectrum of compound 15.

Figure S36.  $^1\text{H}$  NMR spectrum of compound 17.Figure S37.  $^1\text{H}$  NMR spectrum of compound 17.

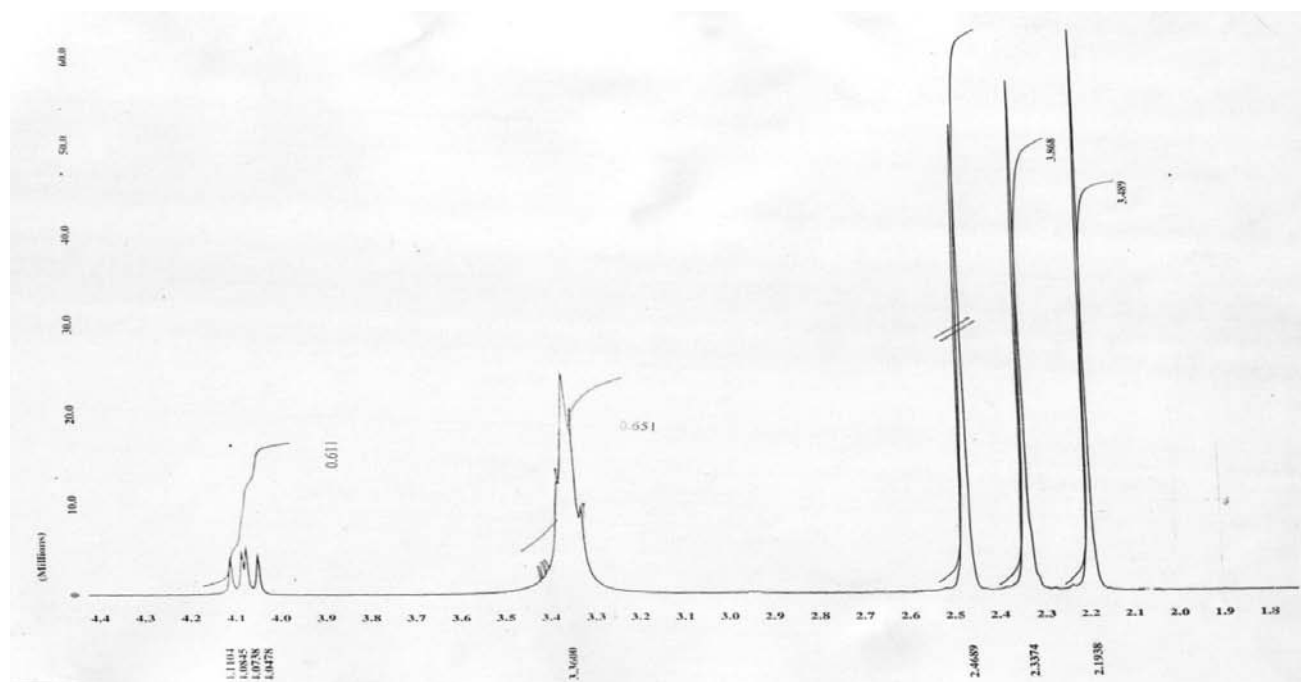


Figure S38. <sup>1</sup>H NMR spectrum of compound 17.

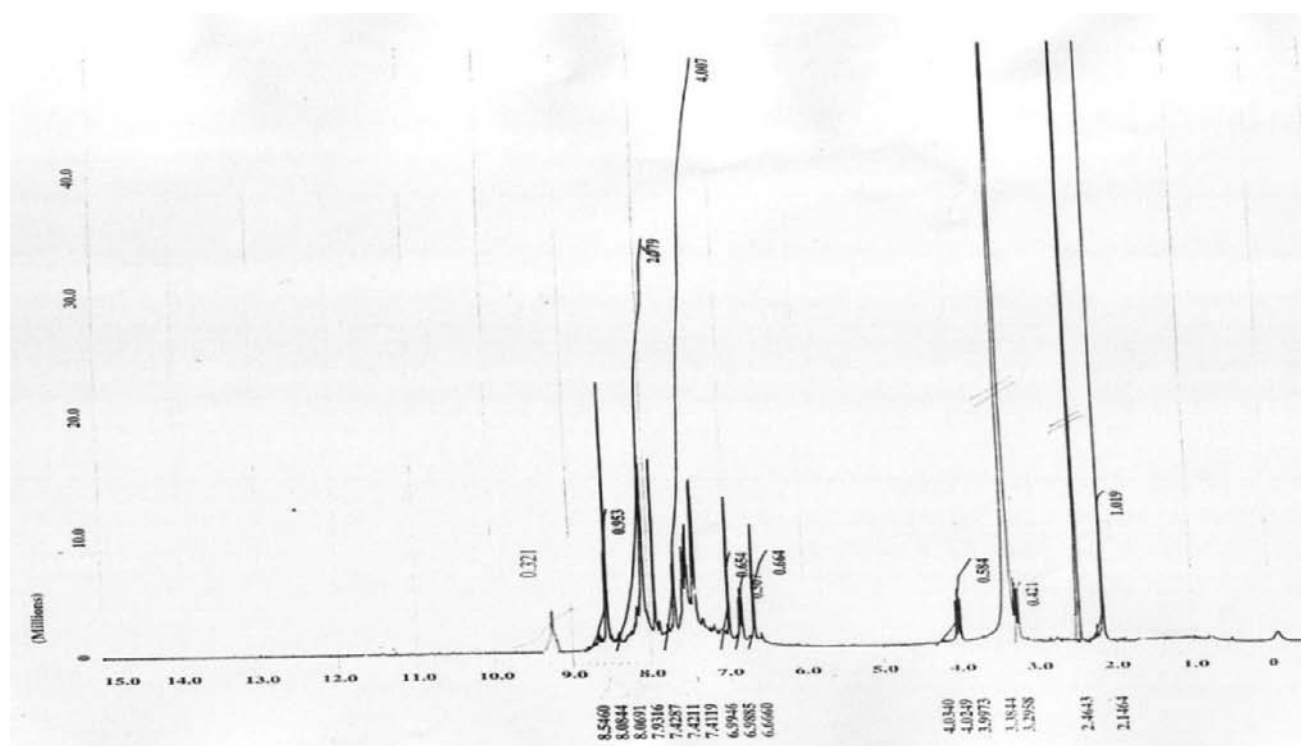


Figure S39. <sup>1</sup>H NMR spectrum of compound 18.

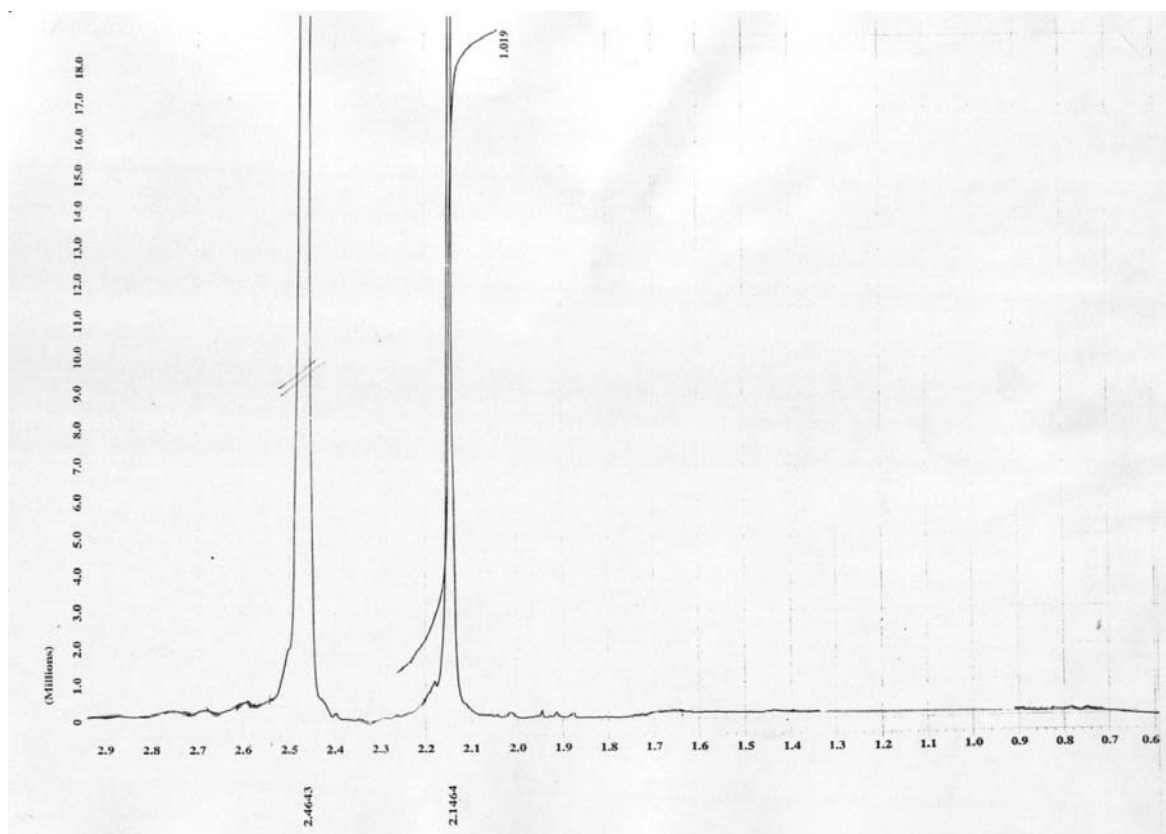


Figure S40.  $^1\text{H}$  NMR spectrum of compound 18.

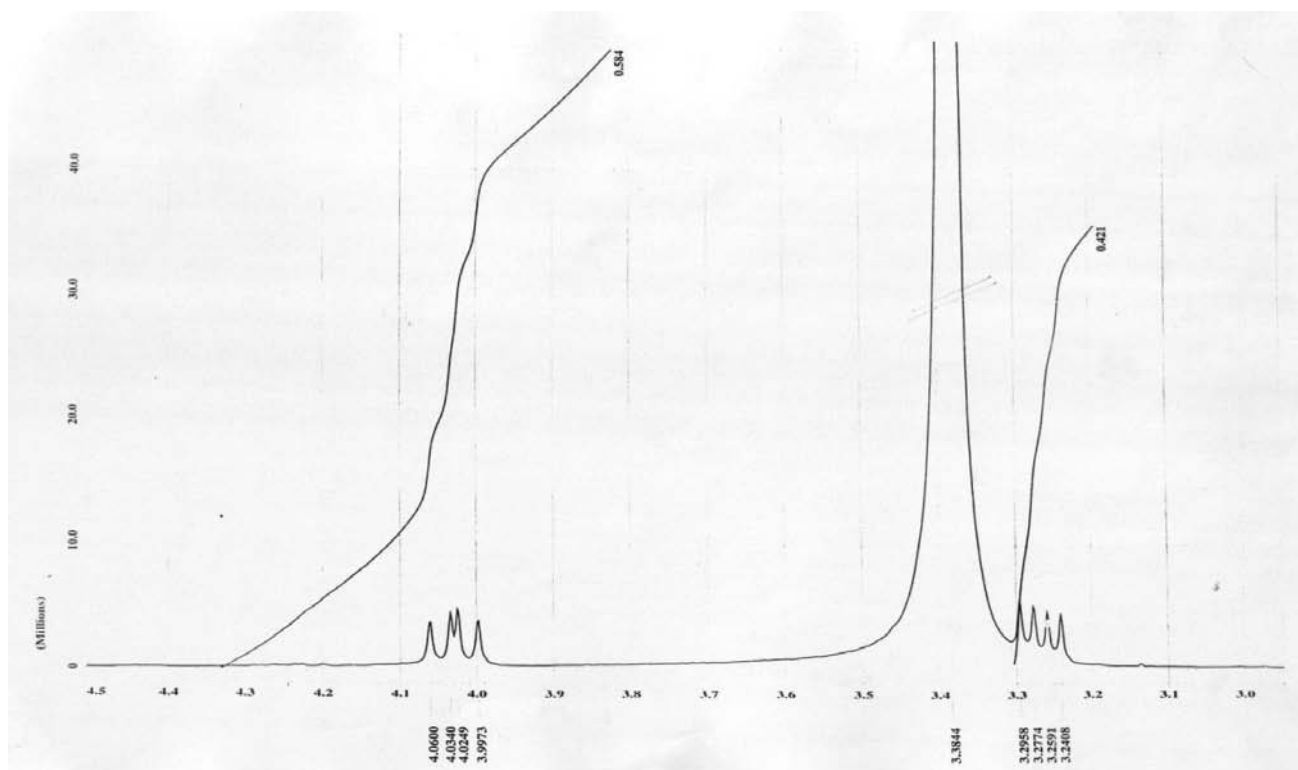


Figure S41.  $^1\text{H}$  NMR spectrum of compound 18.

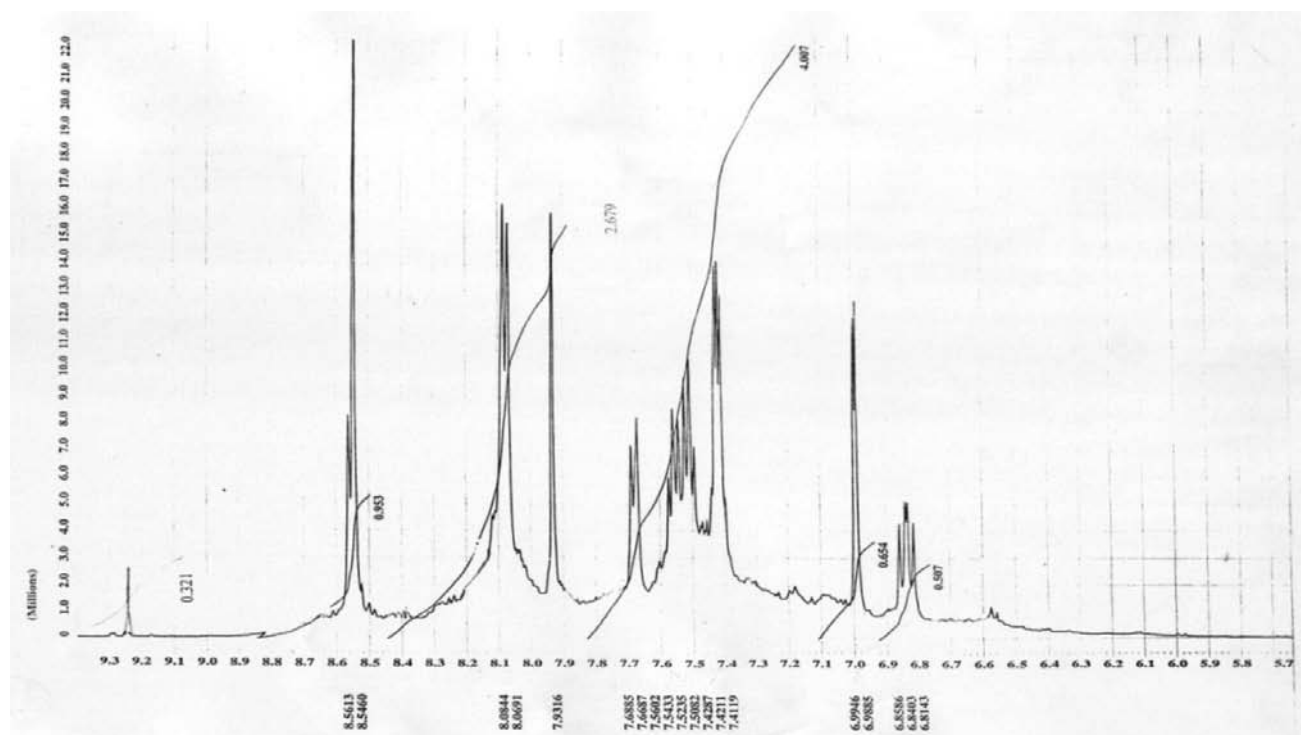


Figure S42. <sup>1</sup>H NMR spectrum of compound 18.

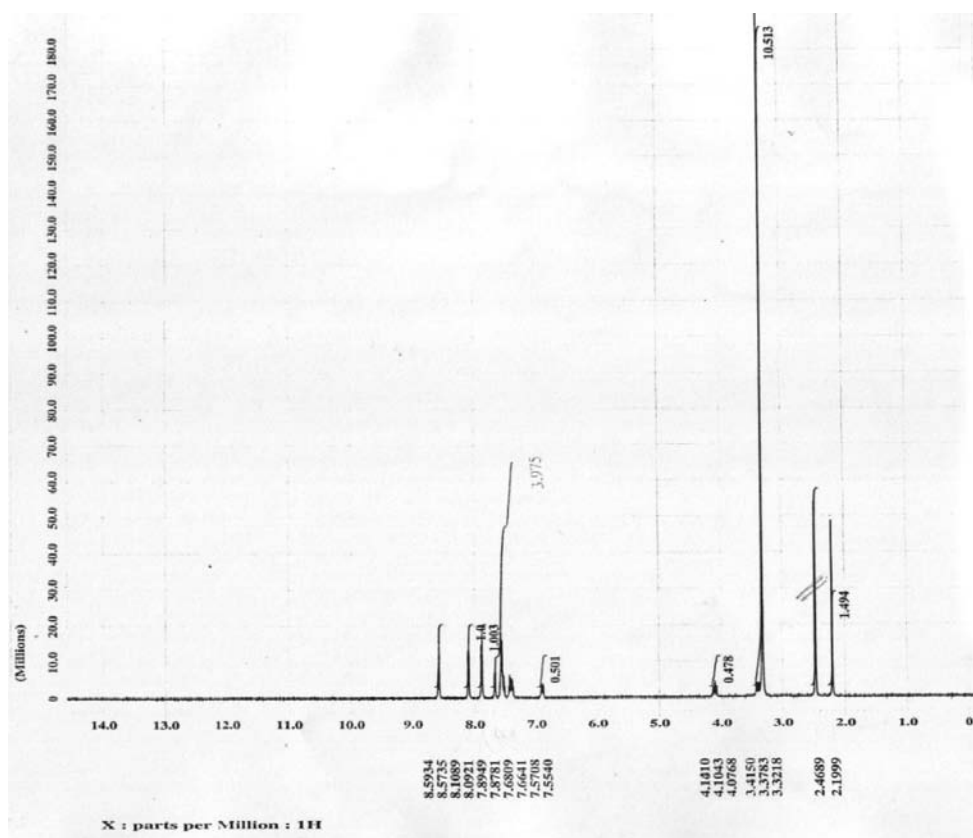


Figure S43. <sup>1</sup>H NMR spectrum of compound 19.

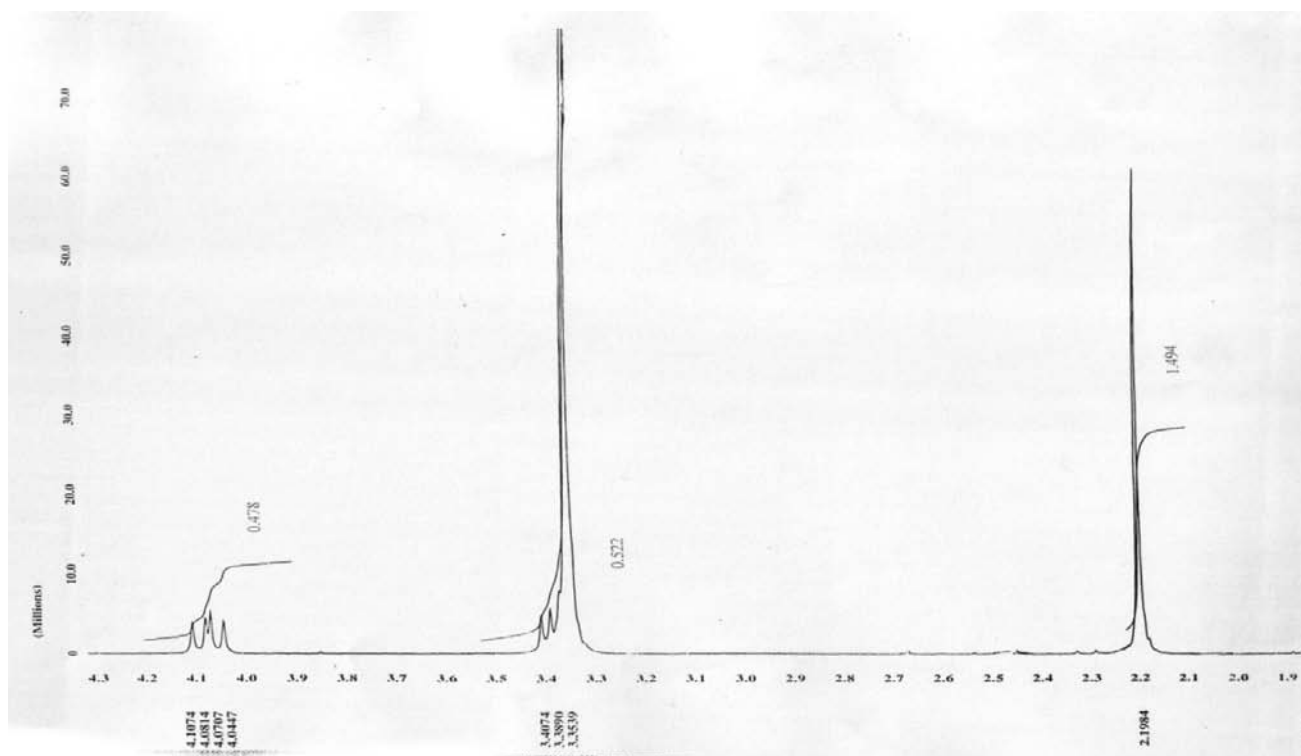


Figure S44.  $^1\text{H}$  NMR spectrum of compound 19.

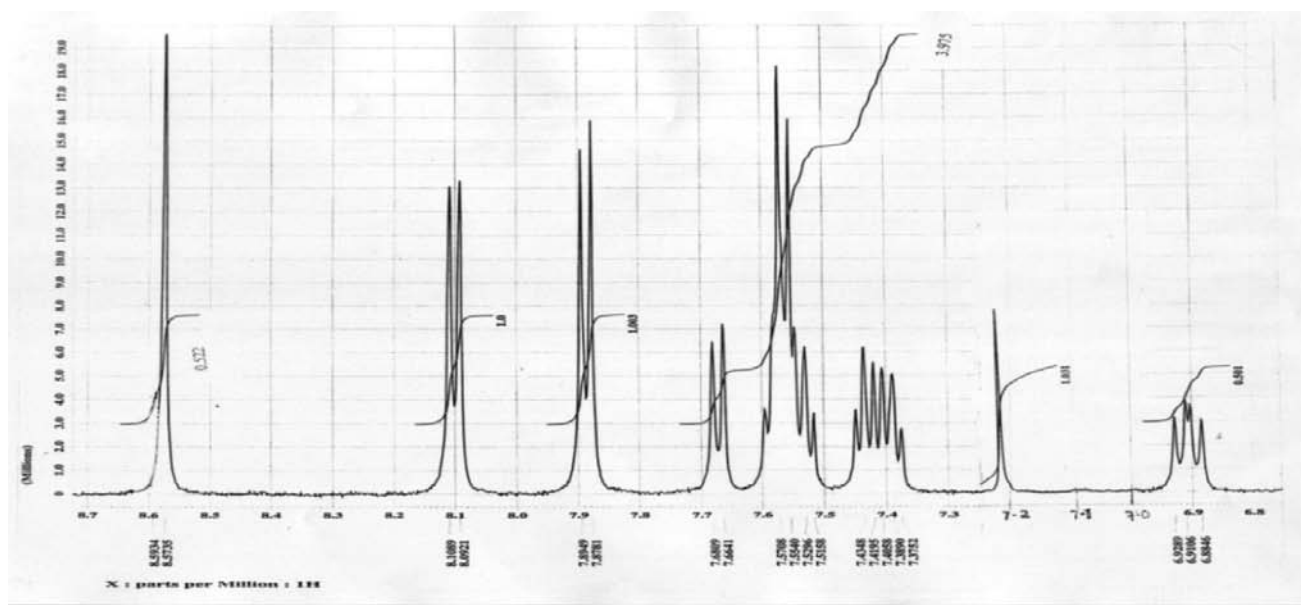
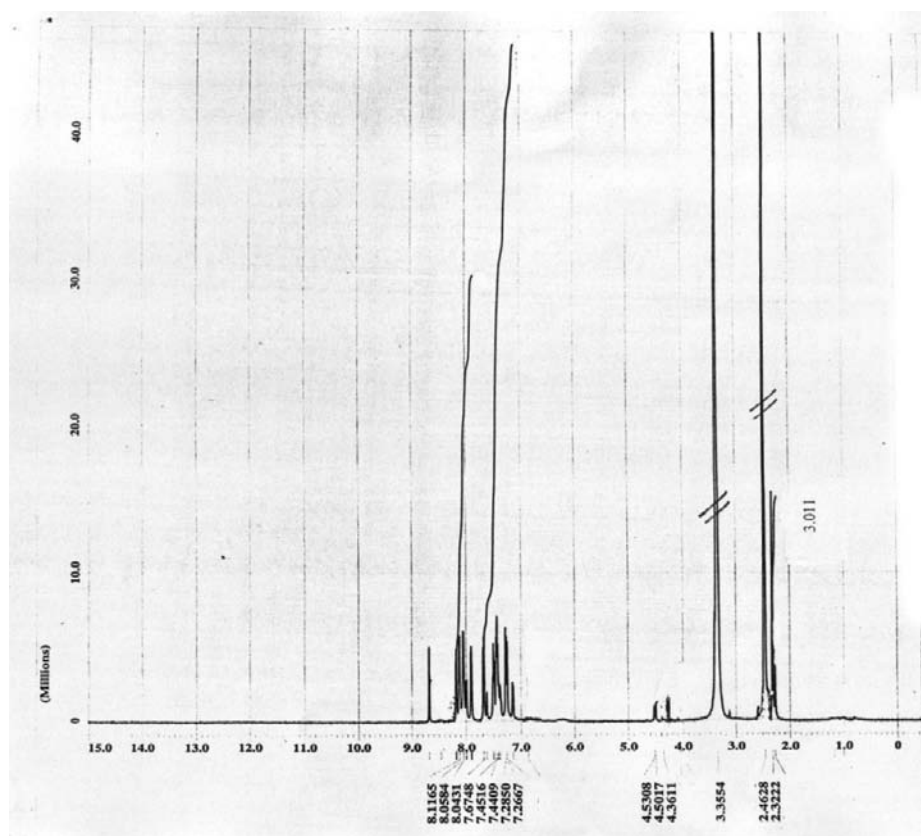
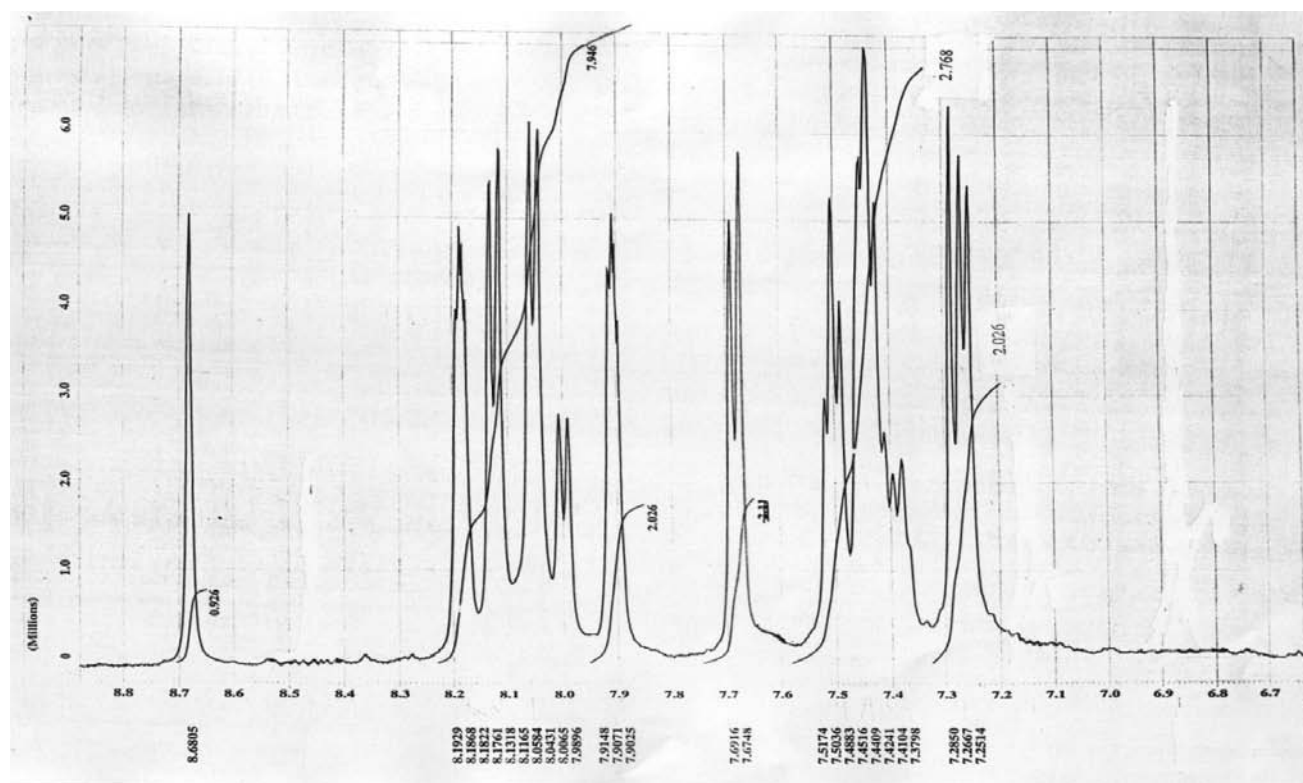
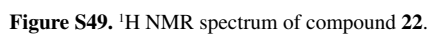
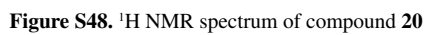
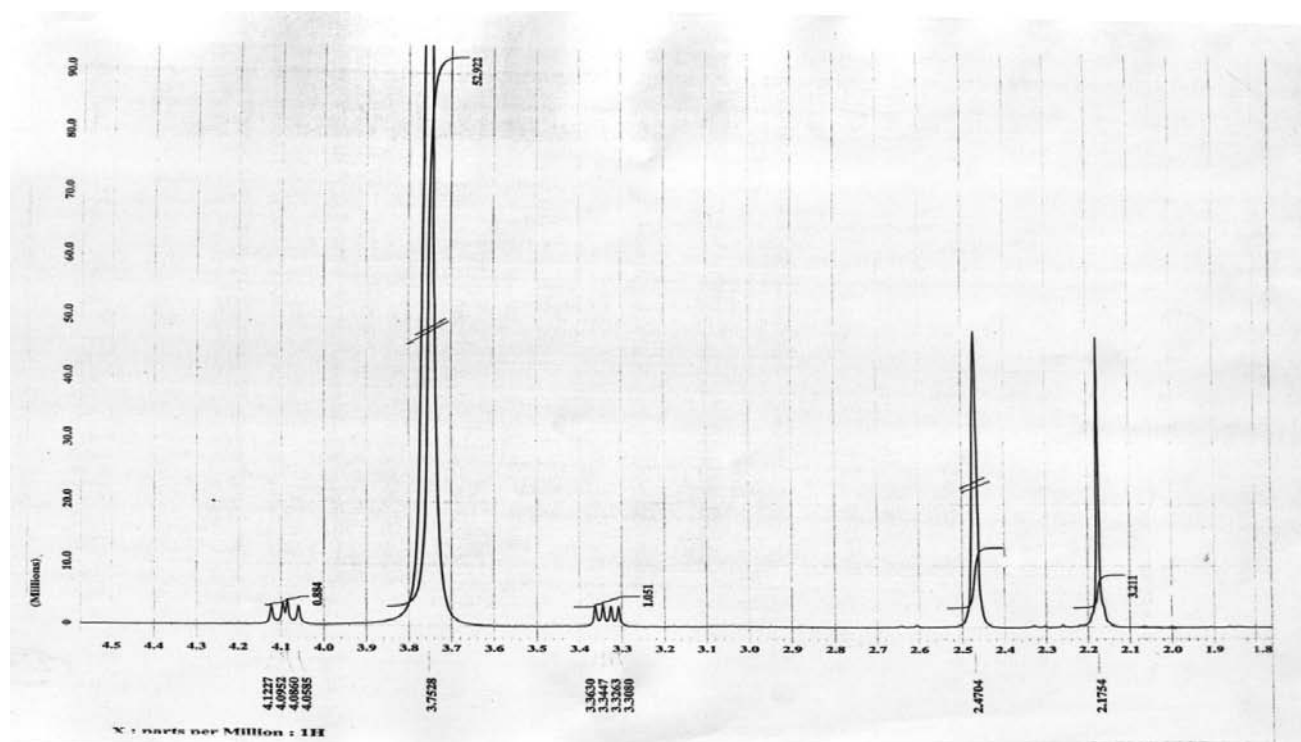
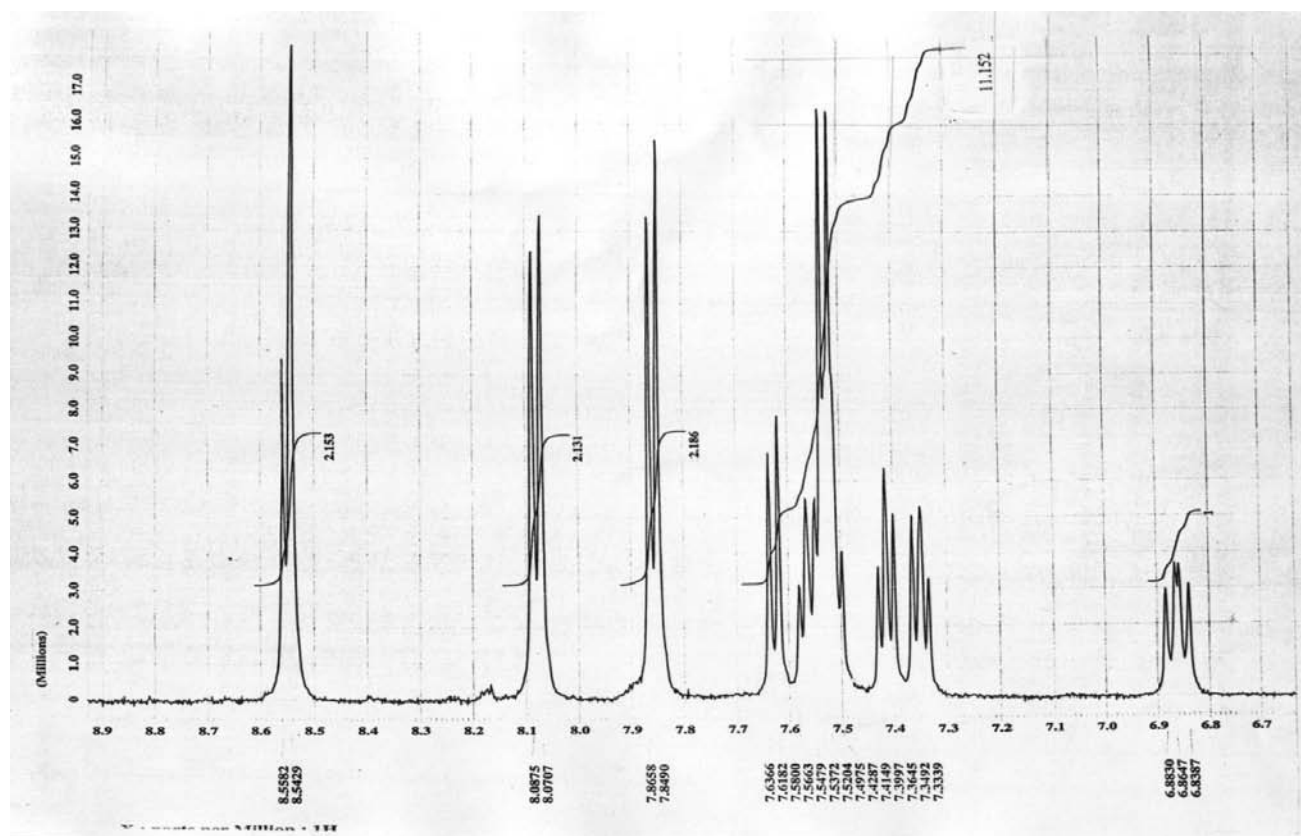


Figure S45.  $^1\text{H}$  NMR spectrum of compound 19.

Figure S46.  $^1\text{H}$  NMR spectrum of compound 20.Figure S47.  $^1\text{H}$  NMR spectrum of compound 20.





Figure S50. <sup>1</sup>H NMR spectrum of compound 22.Figure S51. <sup>1</sup>H NMR spectrum of compound 22.

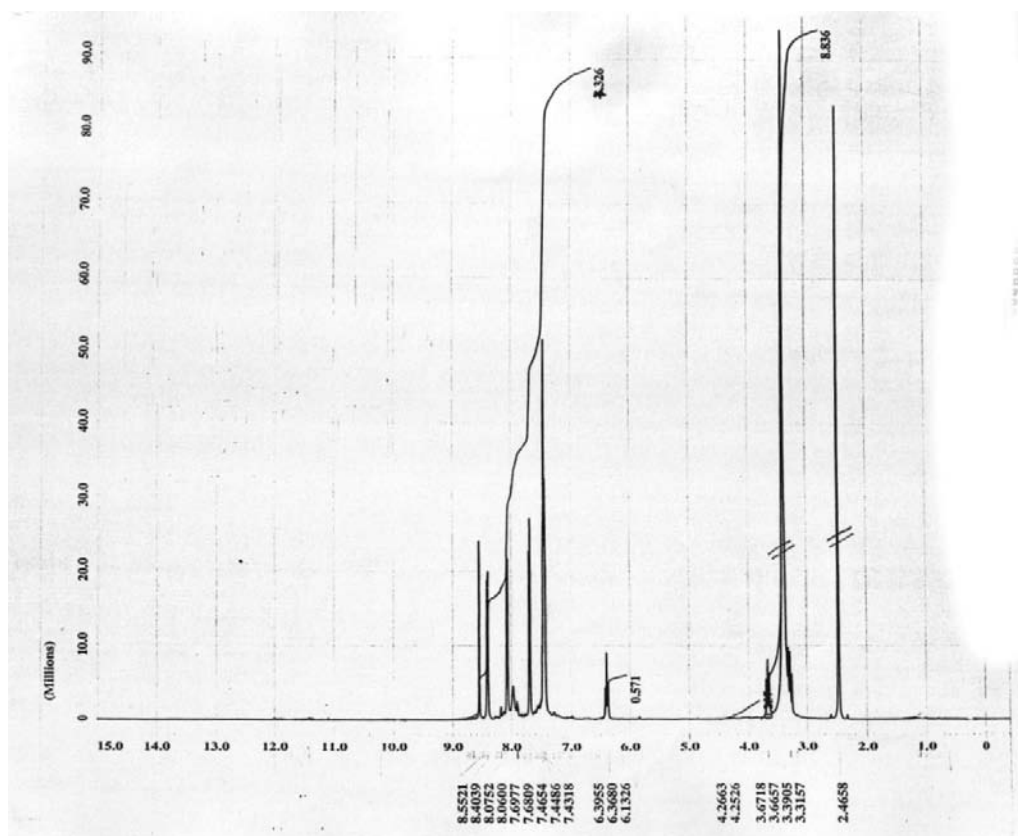


Figure S52.  $^1\text{H}$  NMR spectrum of compound 26.

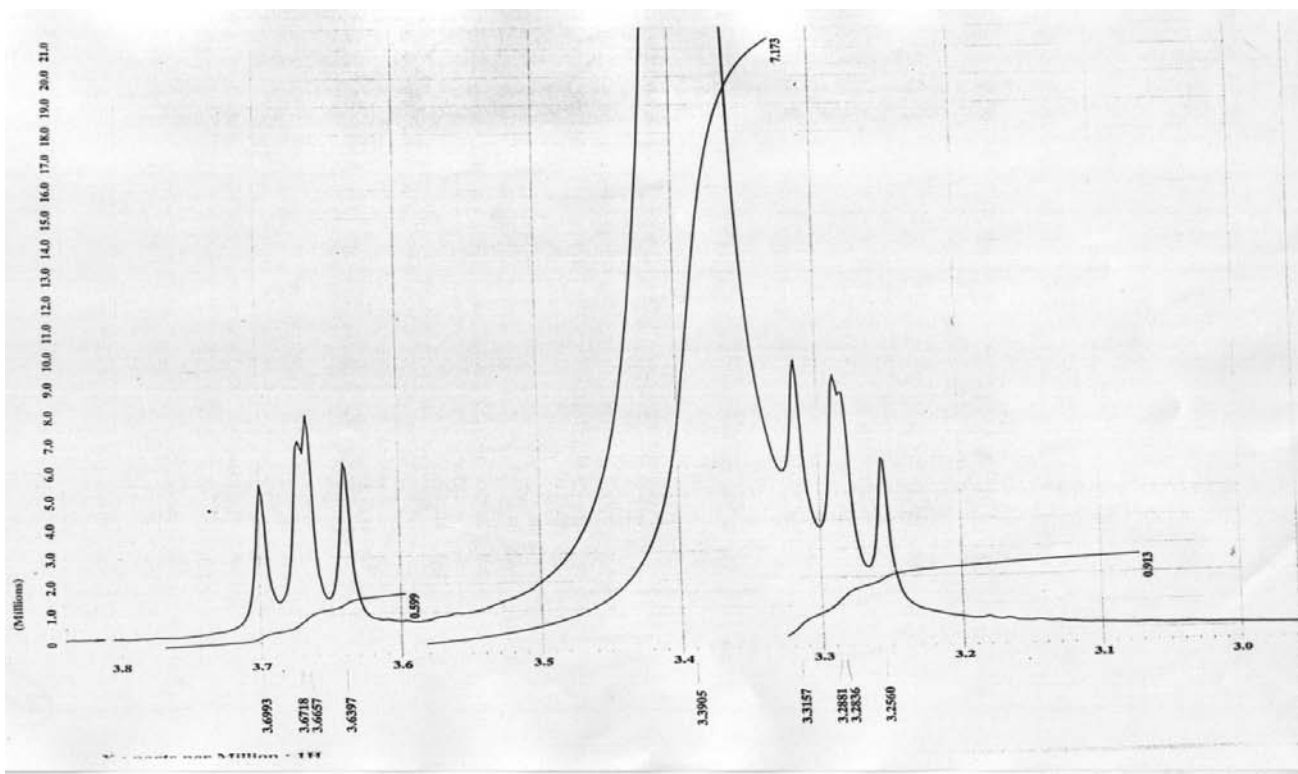


Figure S53.  $^1\text{H}$  NMR spectrum of compound 26.

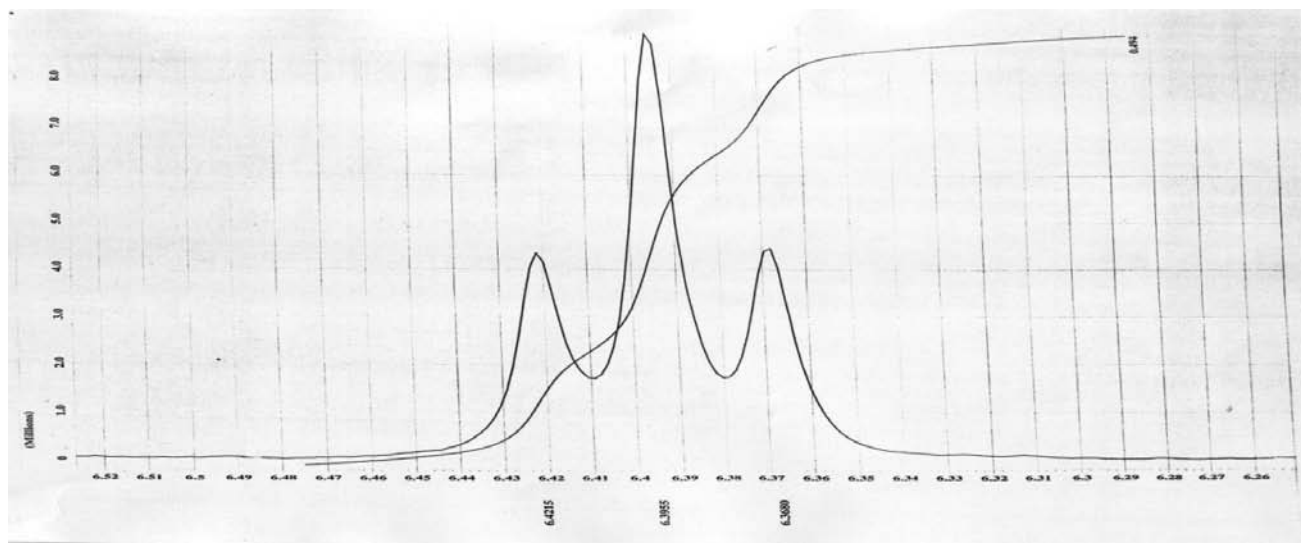


Figure S54.  $^1\text{H}$  NMR spectrum of compound 26.

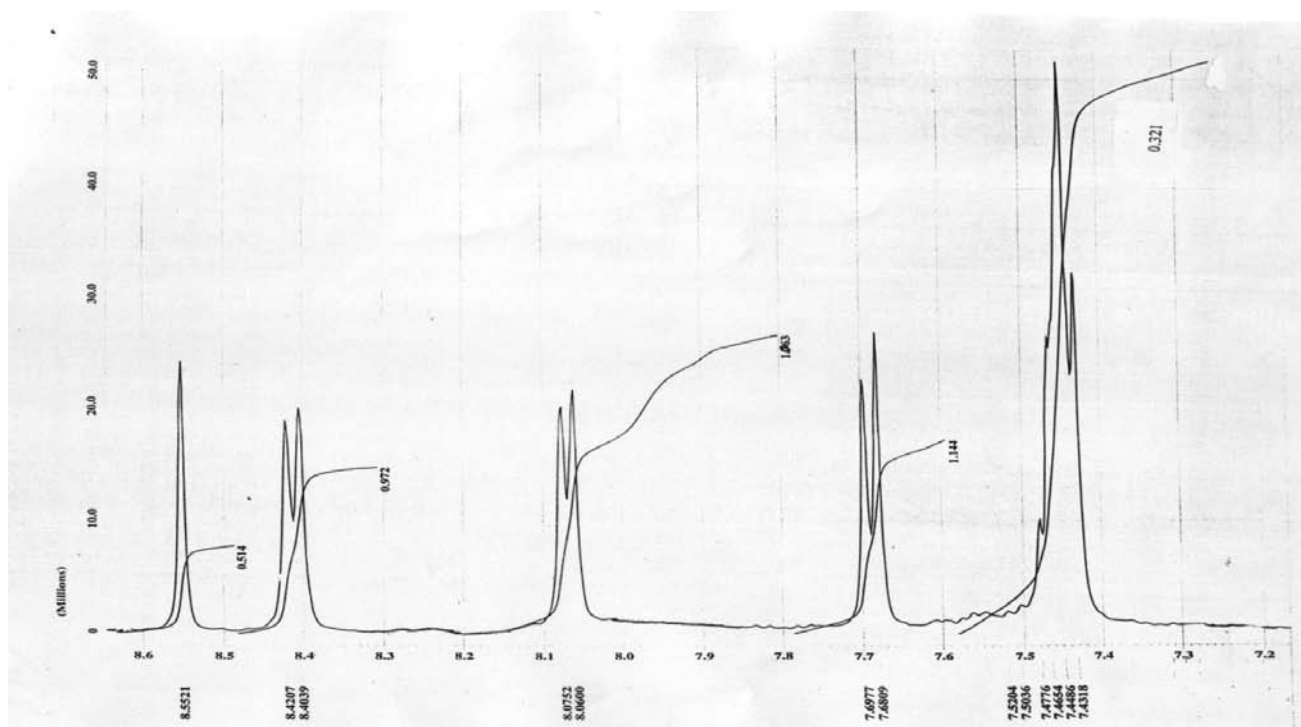


Figure S55.  $^1\text{H}$  NMR spectrum of compound 26.

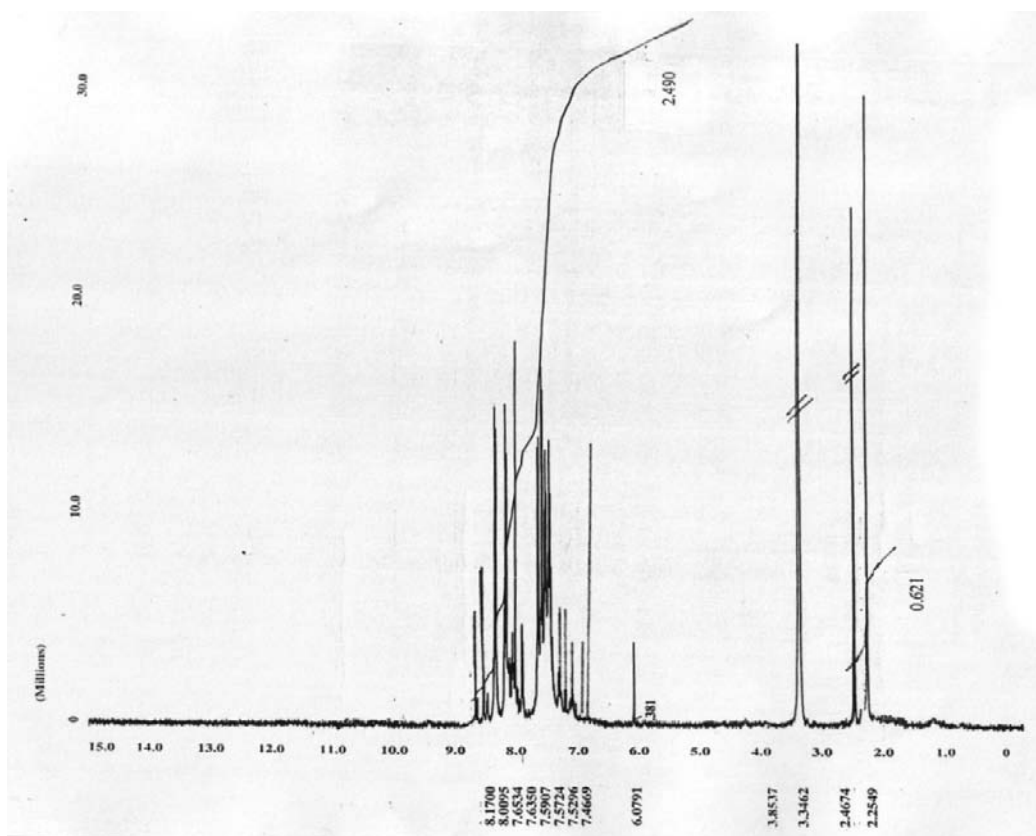


Figure S56.  $^1\text{H}$  NMR spectrum of compound 33.

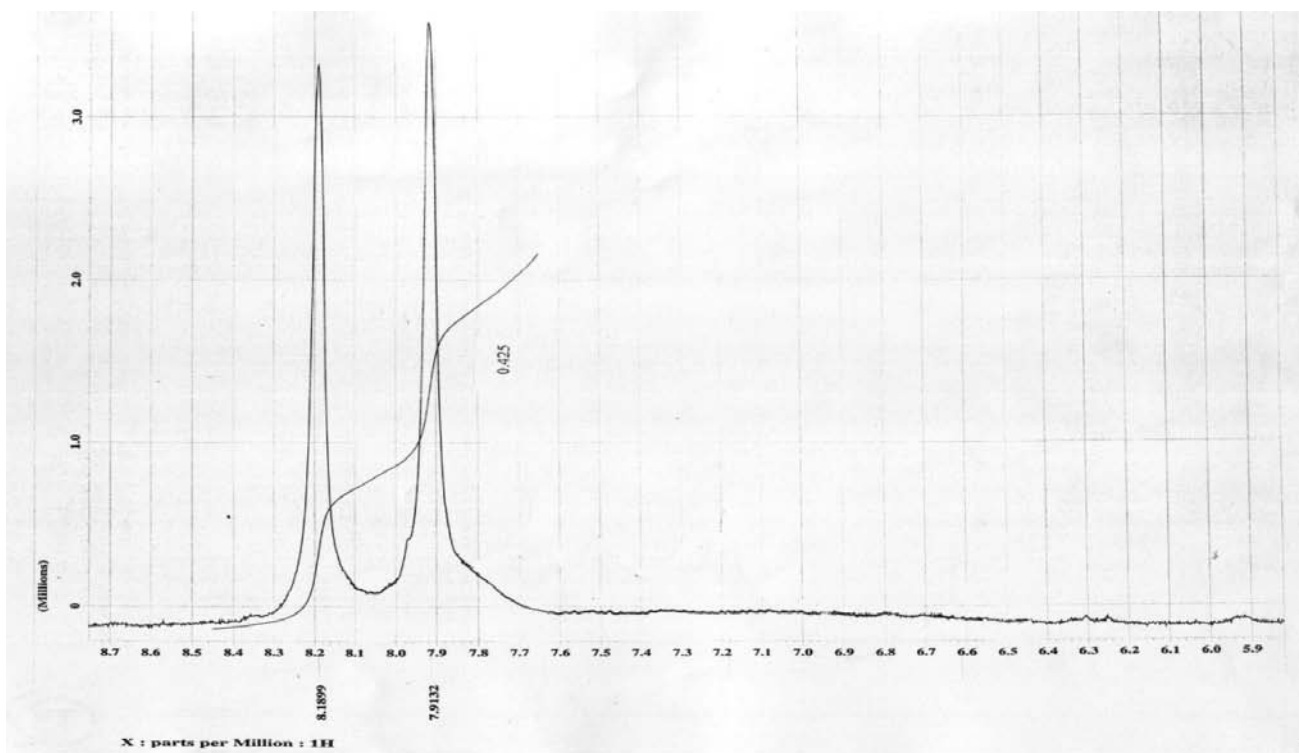
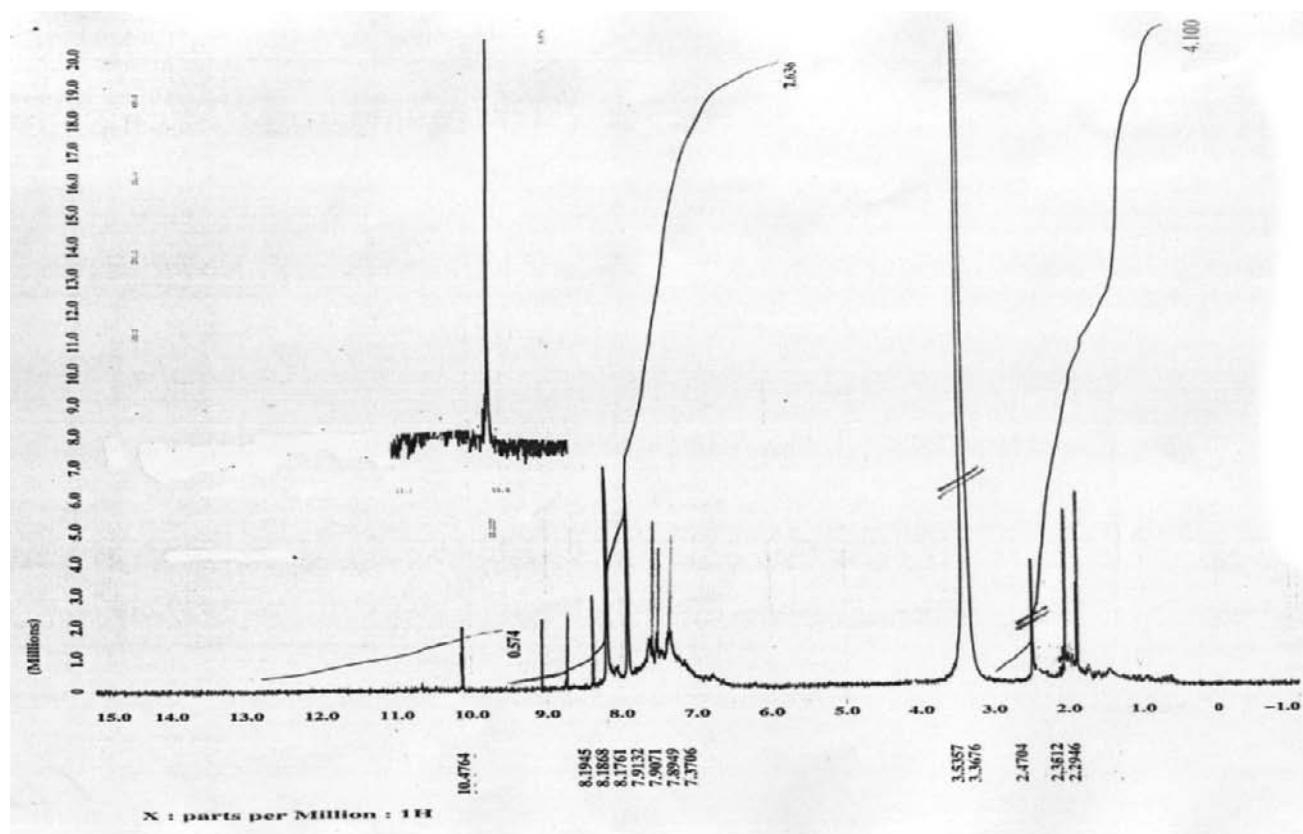
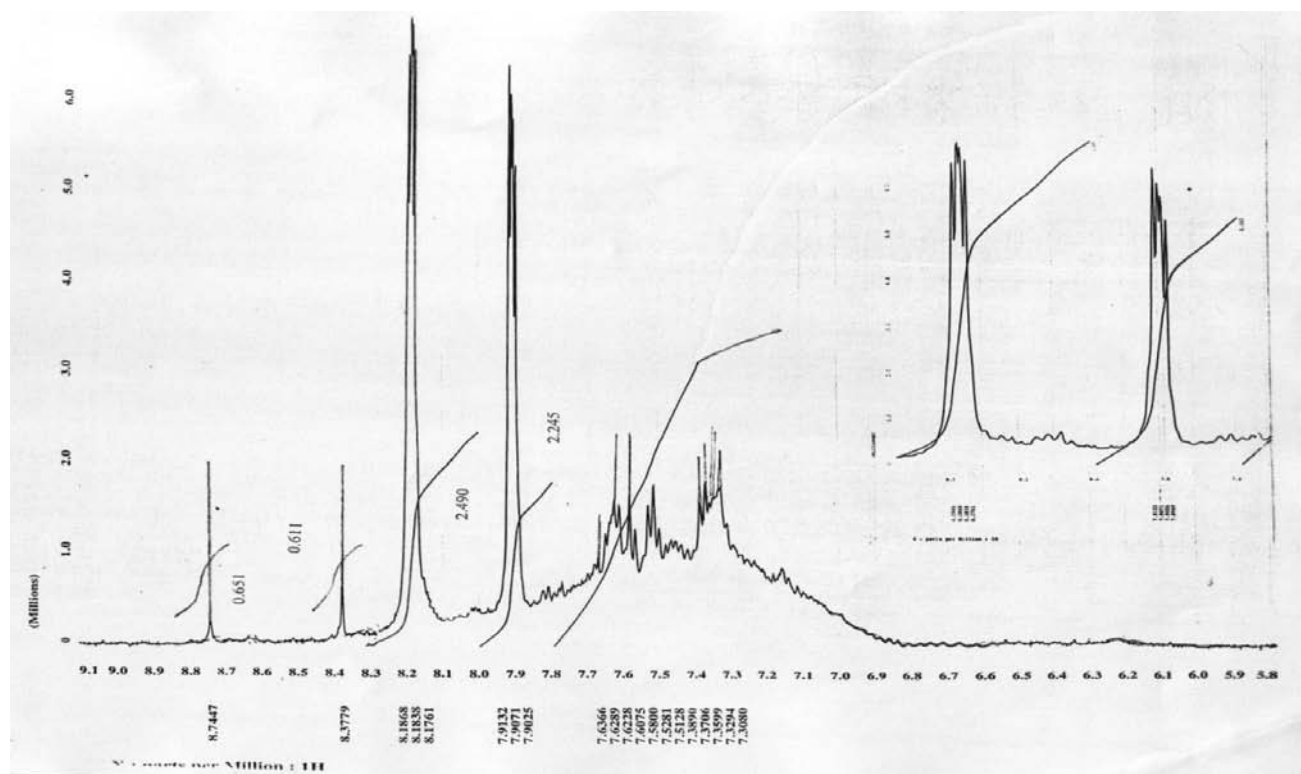


Figure S57.  $^1\text{H}$  NMR spectrum of compound 33.

Figure S58. <sup>1</sup>H NMR spectrum of compound 36.Figure S59. <sup>1</sup>H NMR spectrum of compound 36.

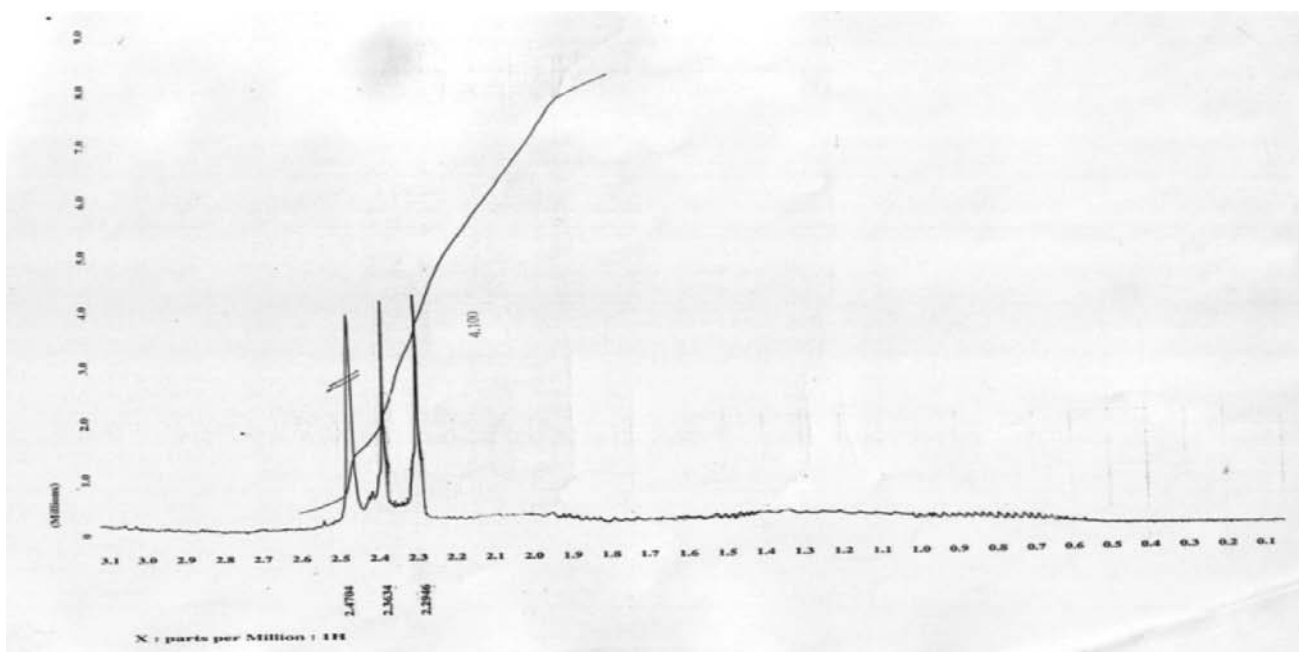


Figure S60.  $^1\text{H}$  NMR spectrum of compound 36.

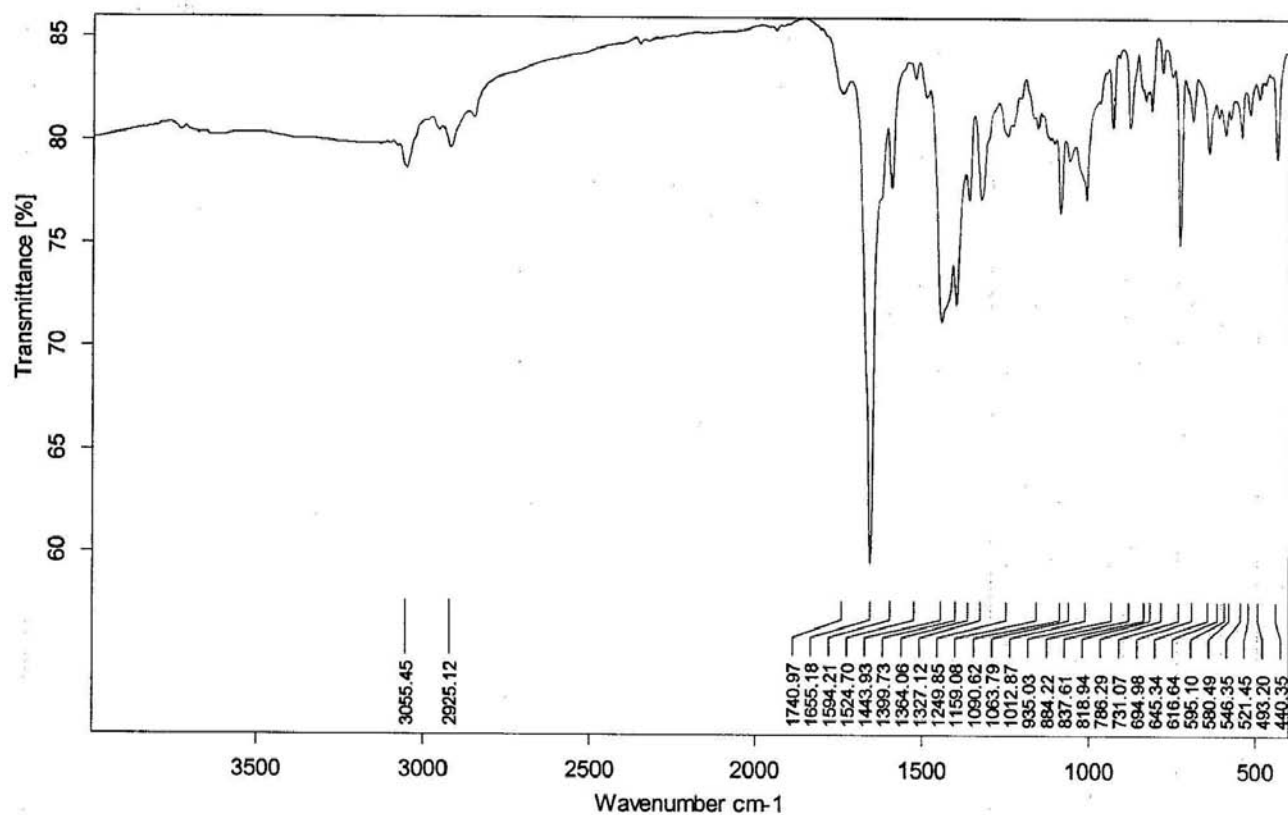


Figure S61. IR spectrum of compound 20.

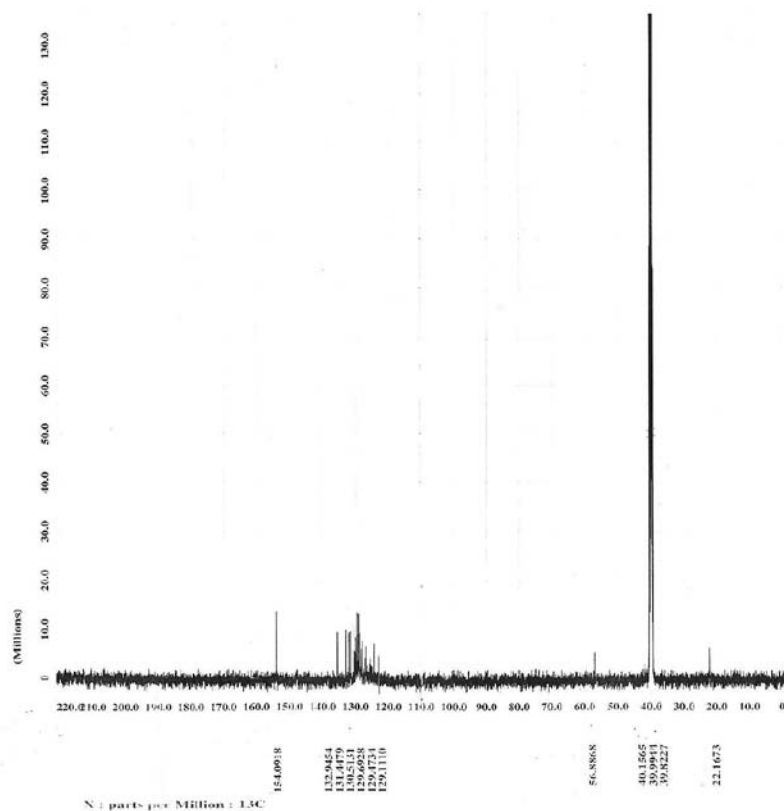


Figure S62. <sup>13</sup>C NMR spectrum of compound 20.

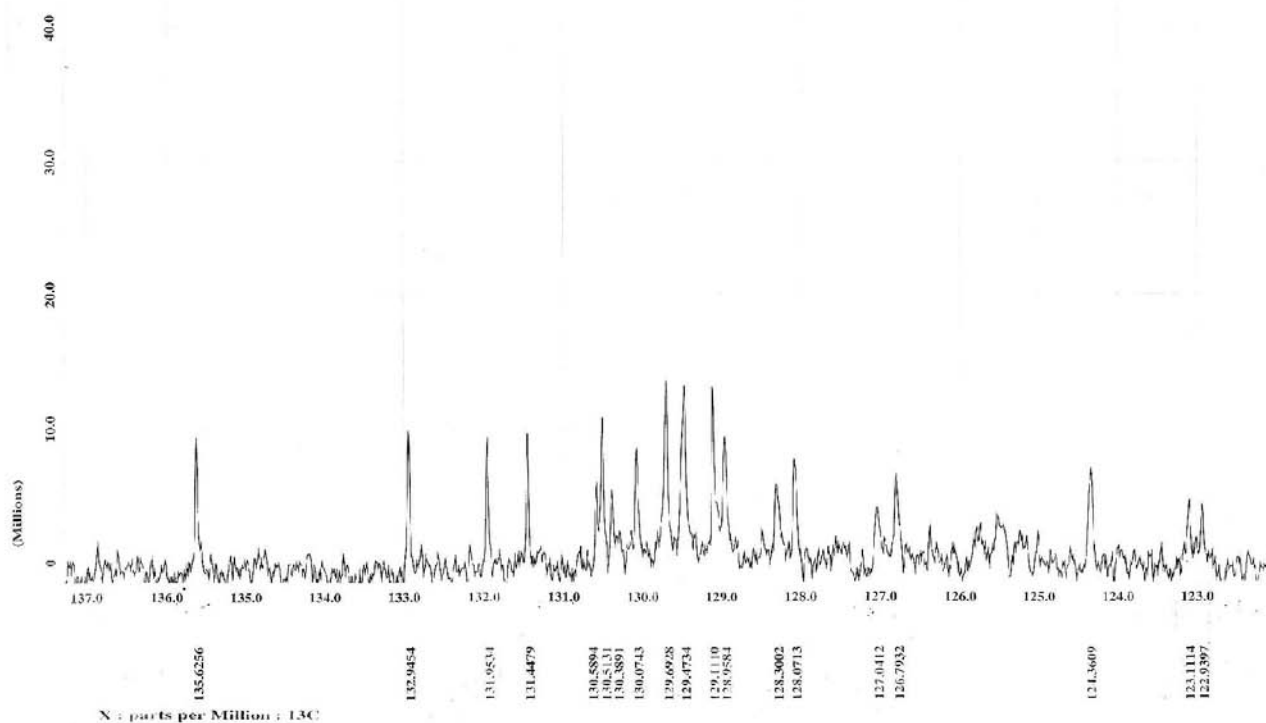


Figure S63. <sup>13</sup>C NMR spectrum of compound 20.