

## ***Supplementary Information***

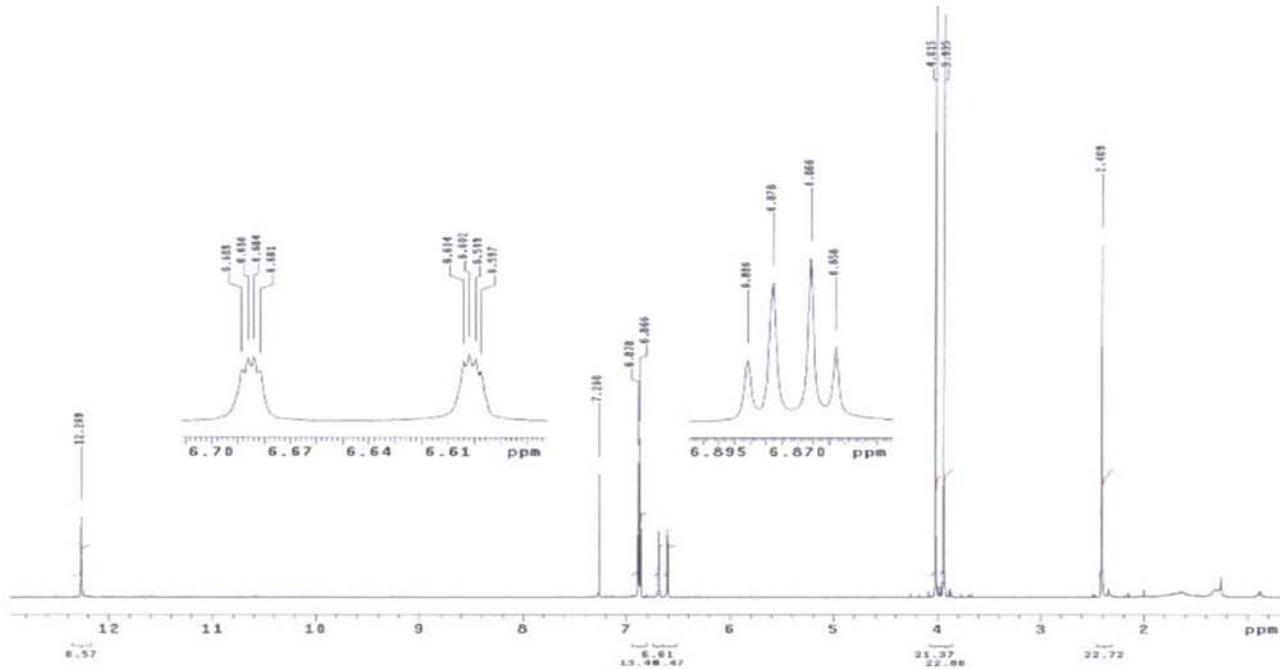
## Novel Anthraquinone Derivatives Produced by *Pestalotiopsis guepinii*, an Endophytic of the Medicinal Plant *Virola michelii* (Myristicaceae)

*Marilene N. Oliveira,<sup>a</sup> Lourivaldo S. Santos,<sup>\*,a</sup> Giselle M. S. P. Guilhon,<sup>a</sup> Alberdan S. Santos,<sup>a</sup> Isabel C. S. Ferreira,<sup>a</sup> Manoel L. Lopes-Junior,<sup>a</sup> Mara Silvia P. Arruda,<sup>a</sup> Andrey M. R. Marinho,<sup>a</sup> Milton N. da Silva,<sup>a</sup> Edson Rodrigues-Filho<sup>b</sup> and Maria C. F. Oliveira<sup>c</sup>*

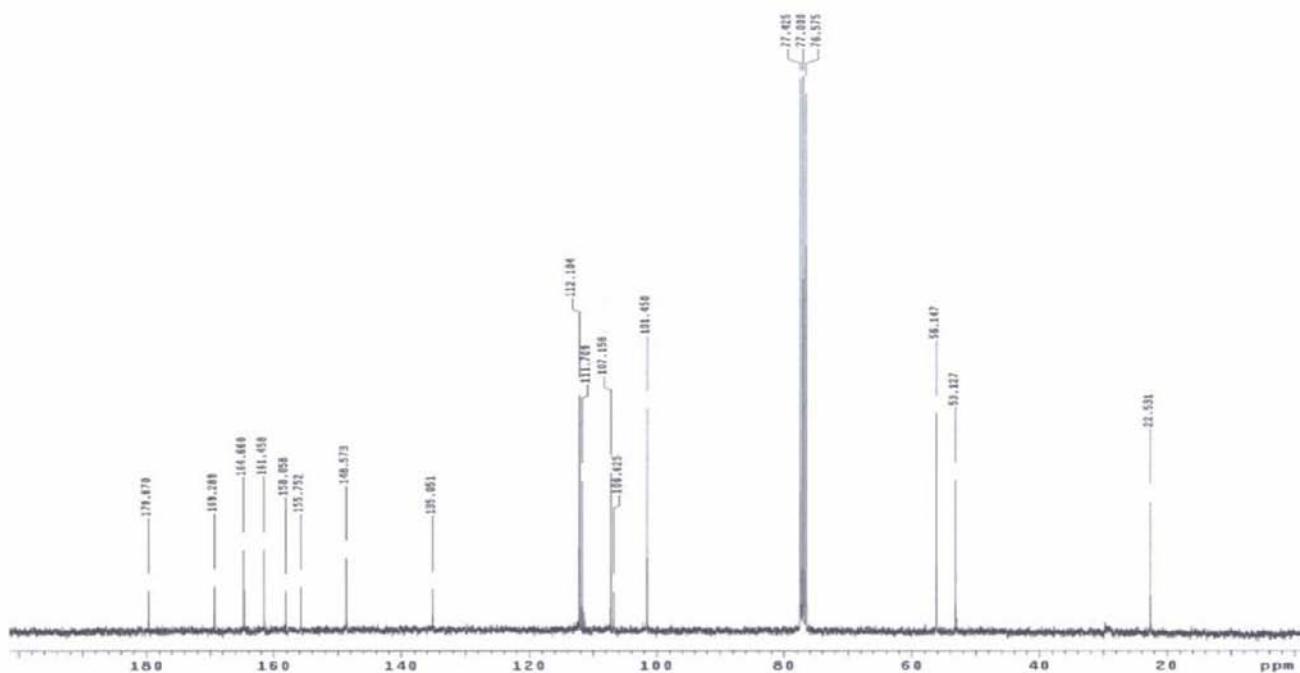
<sup>a</sup> Programa de Pós-Graduação em Química, Instituto de Ciências Exatas e Naturais, Universidade Federal do Pará, 66075-110 Belém-PA, Brazil

<sup>b</sup>Departamento de Química, Universidade Federal de São Carlos, CP 676,  
13565-905 São Carlos-SP, Brazil

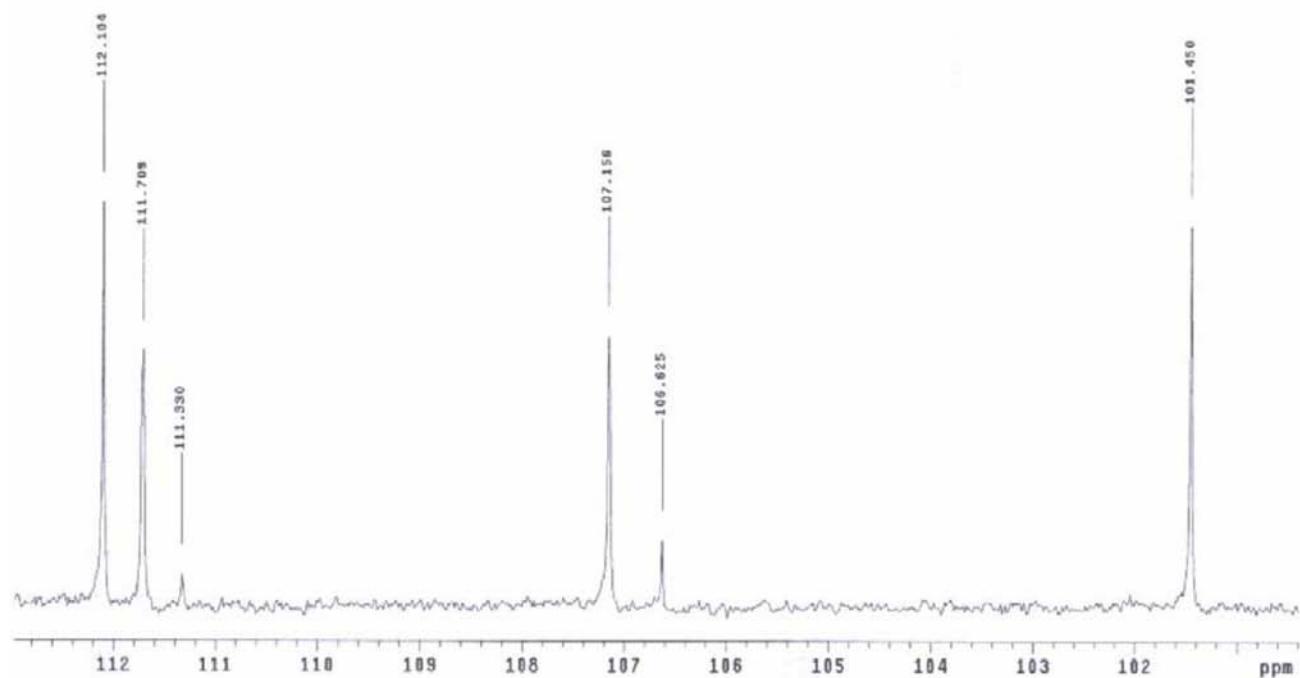
<sup>c</sup>Departamento de Química Orgânica e Inorgânica, Universidade Federal do Ceará,  
60455-970 Fortaleza-CE, Brazil



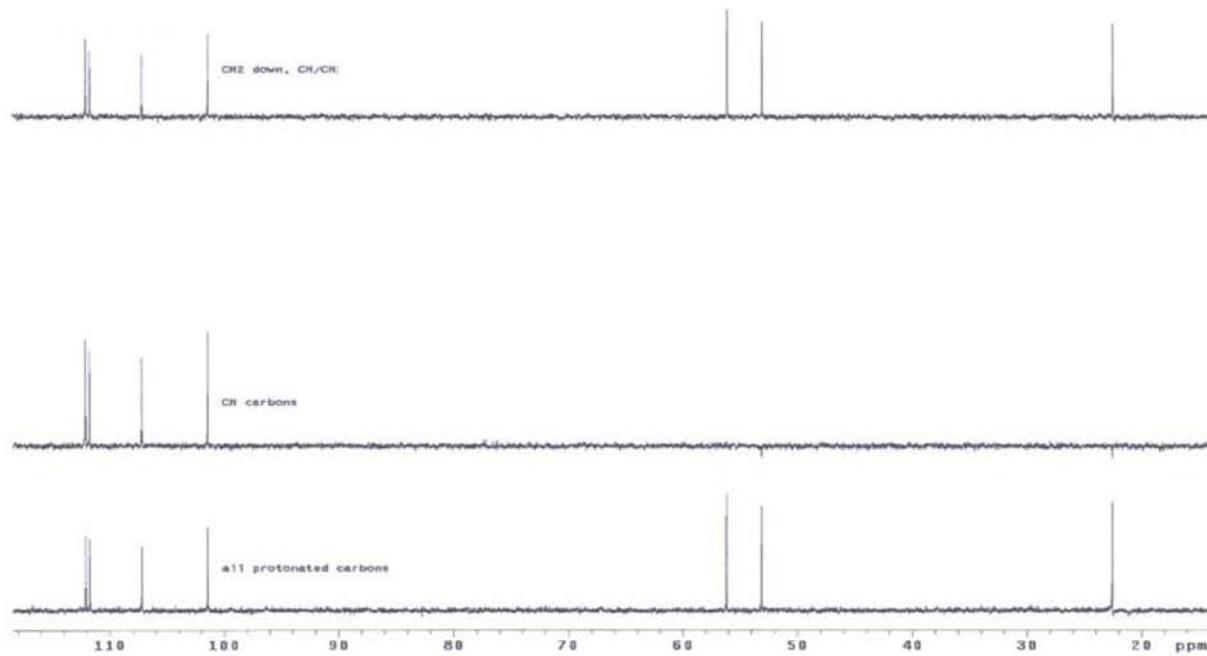
**Figure S1.**  $^1\text{H}$  NMR spectrum (300 MHz,  $\text{CDCl}_3$ ) of compound 1.



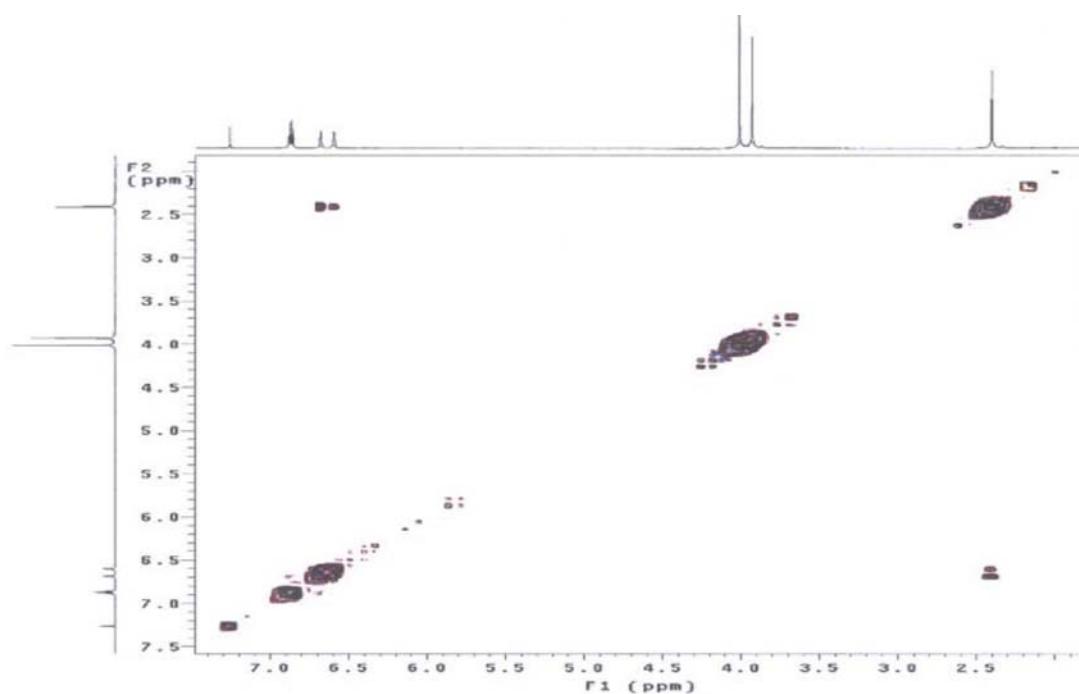
**Figure S2.**  $^{13}\text{C}$  NMR spectrum (75 MHz,  $\text{CDCl}_3$ ) of compound 1.



**Figure S3.**  $^{13}\text{C}$  NMR spectrum (75 MHz,  $\text{CDCl}_3$ ) of compound 1 (expansion).



**Figure S4.** DEPT spectrum (75 MHz, CDCl<sub>3</sub>) of the compound **1**.



**Figure S5.** COSY spectrum (75 MHz, CDCl<sub>3</sub>) of compound **1**.

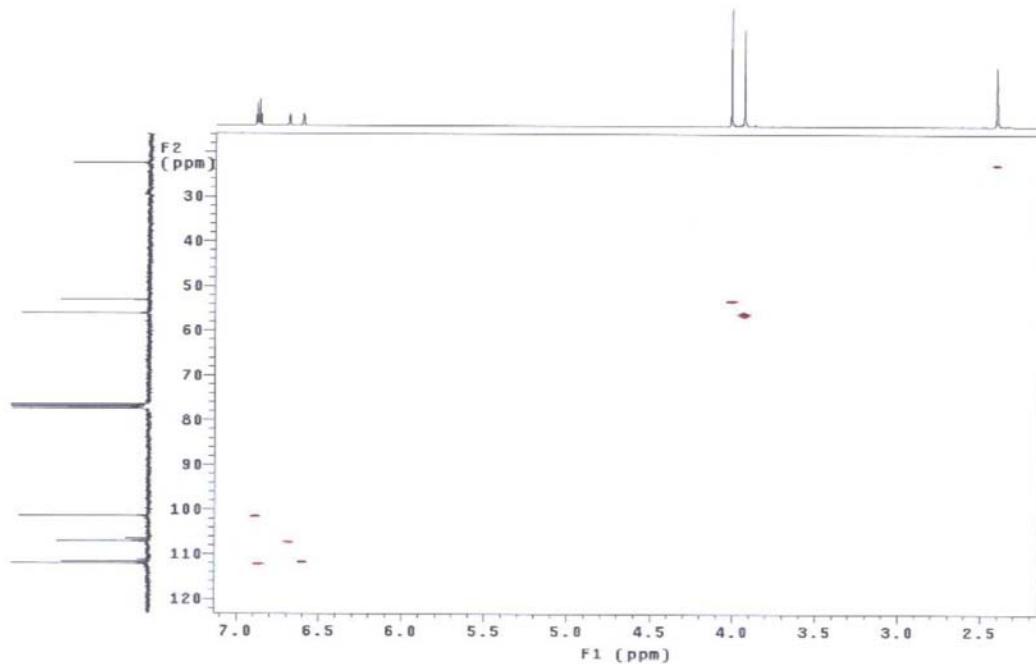


Figure S6. HETCOR spectrum ( $\text{CDCl}_3$ ) of compound 1.

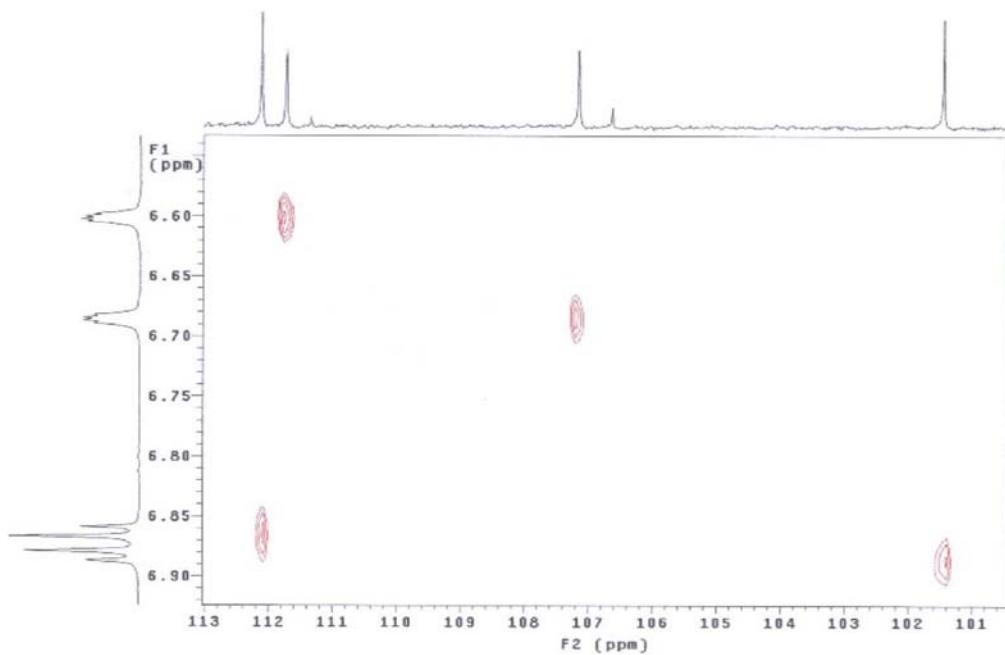
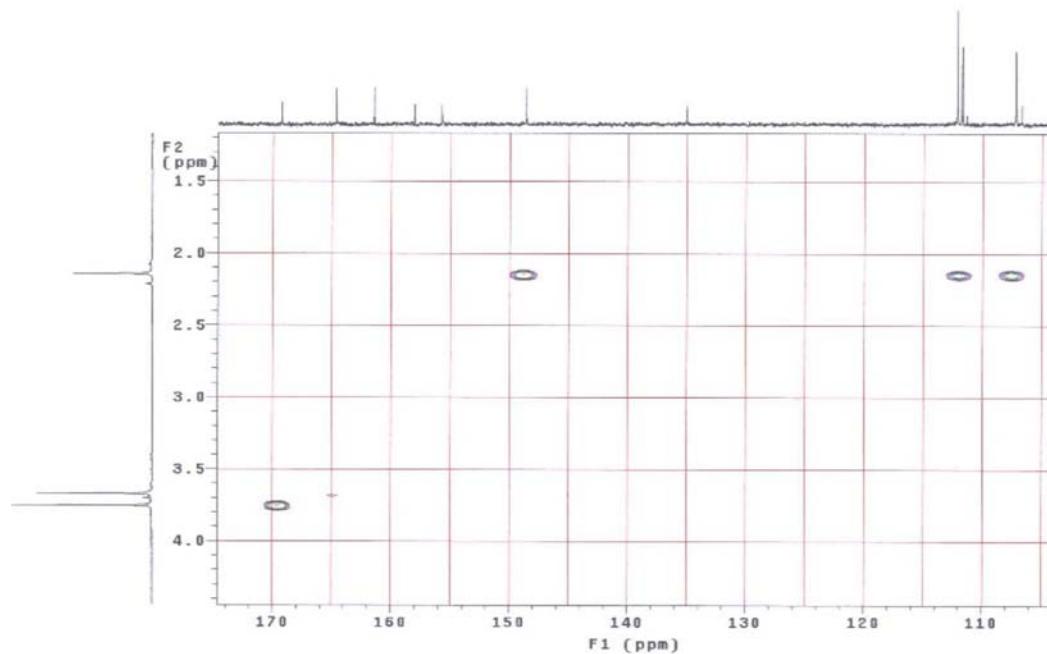
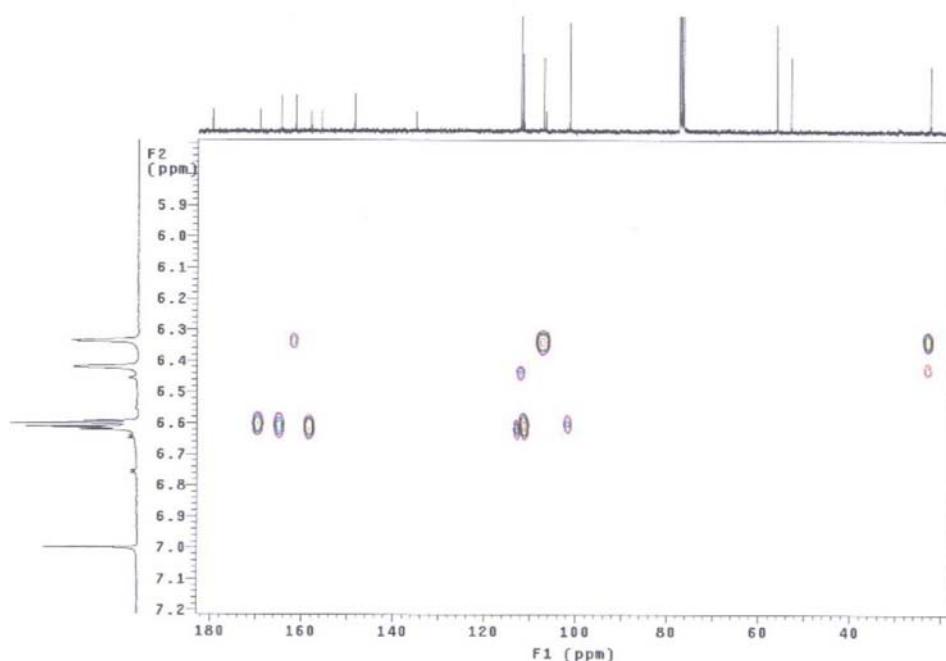


Figure S7. HETCOR spectrum ( $\text{CDCl}_3$ ) of compound 1 (expansion).



**Figure S8.** HMBC spectrum of compound **1** (expansion).



**Figure S9.** HMBC spectrum (CDCl<sub>3</sub>) of compound **1** (expansion).

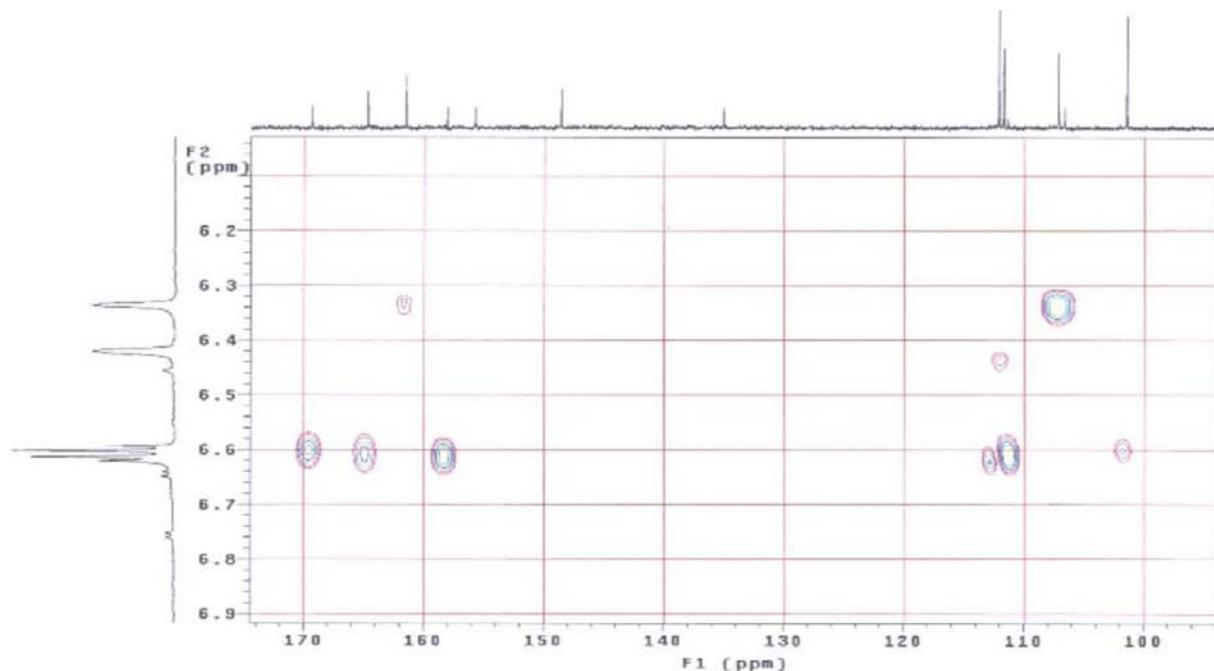


Figure S10. HMBC spectrum ( $\text{CDCl}_3$ ) of compound **1** (expansion).

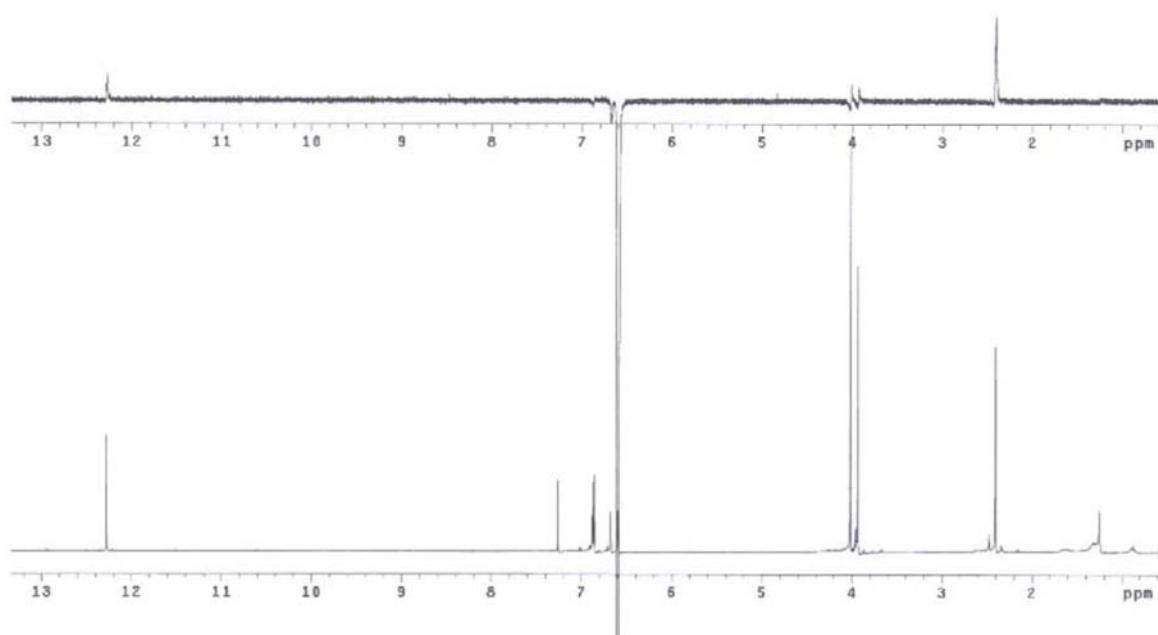
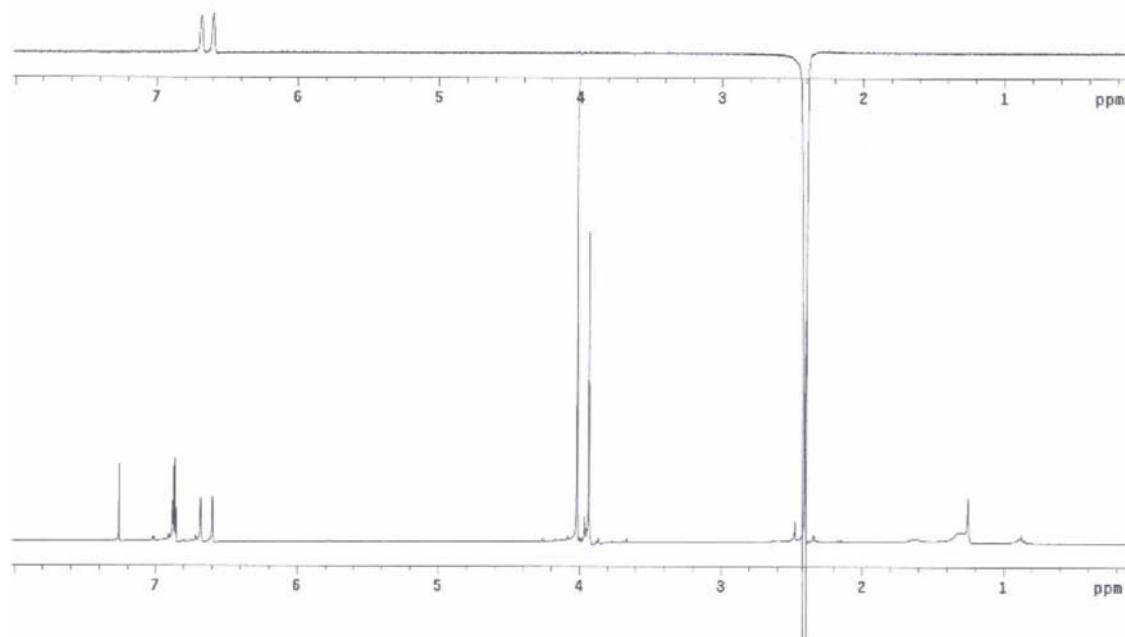
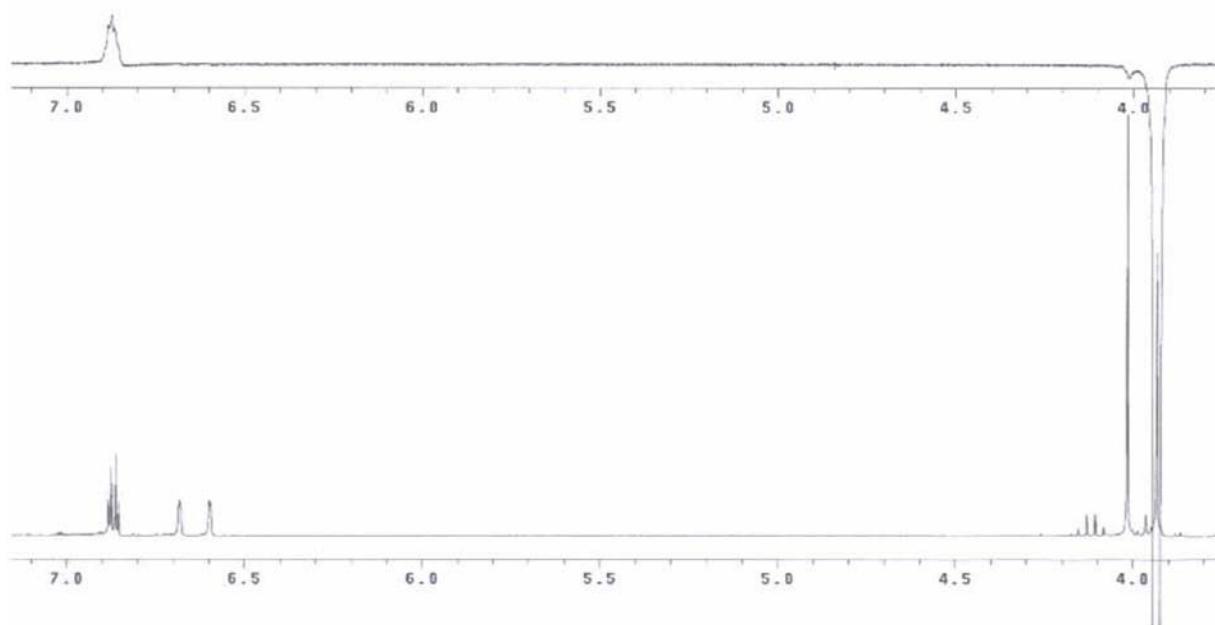


Figure S11. NOEDIF spectrum (irradiation at 6.60 ppm) of compound **1**.



**Figure S12.** NOEDIF spectrum (irradiation at 2.41 ppm) of compound 1.



**Figure S13.** NOEDIF spectrum (irradiation at 3.93 ppm) of compound 1.

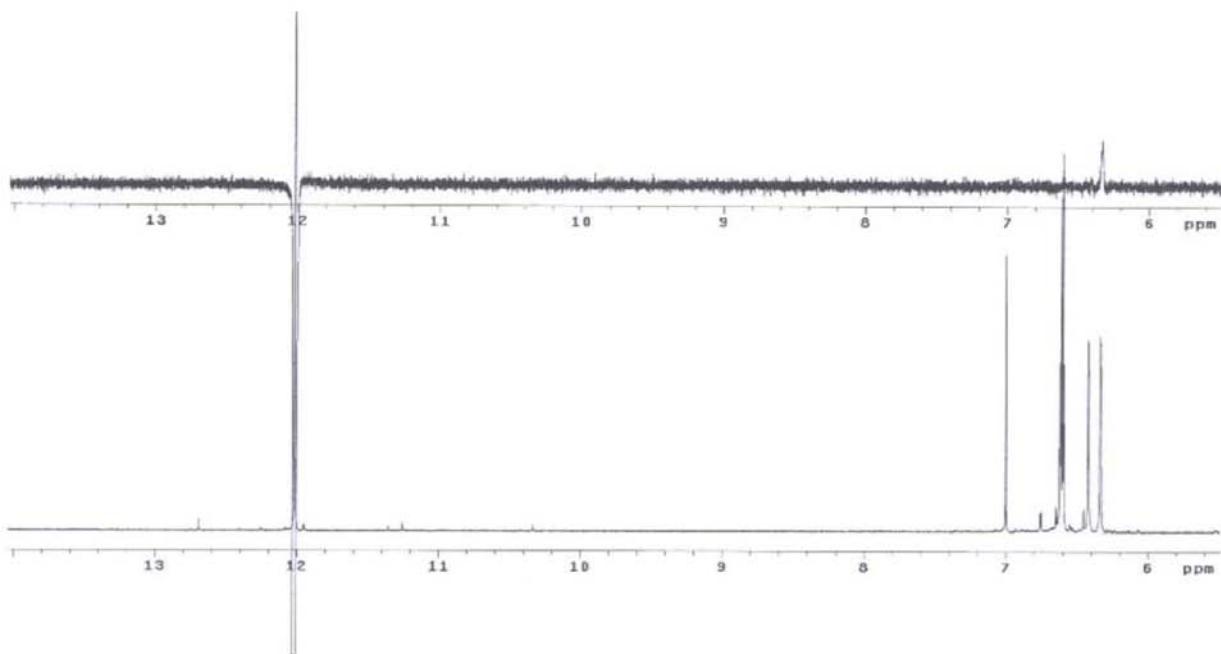


Figure S14. NOEDIF spectrum (irradiation at 12.0 ppm) of compound 1.

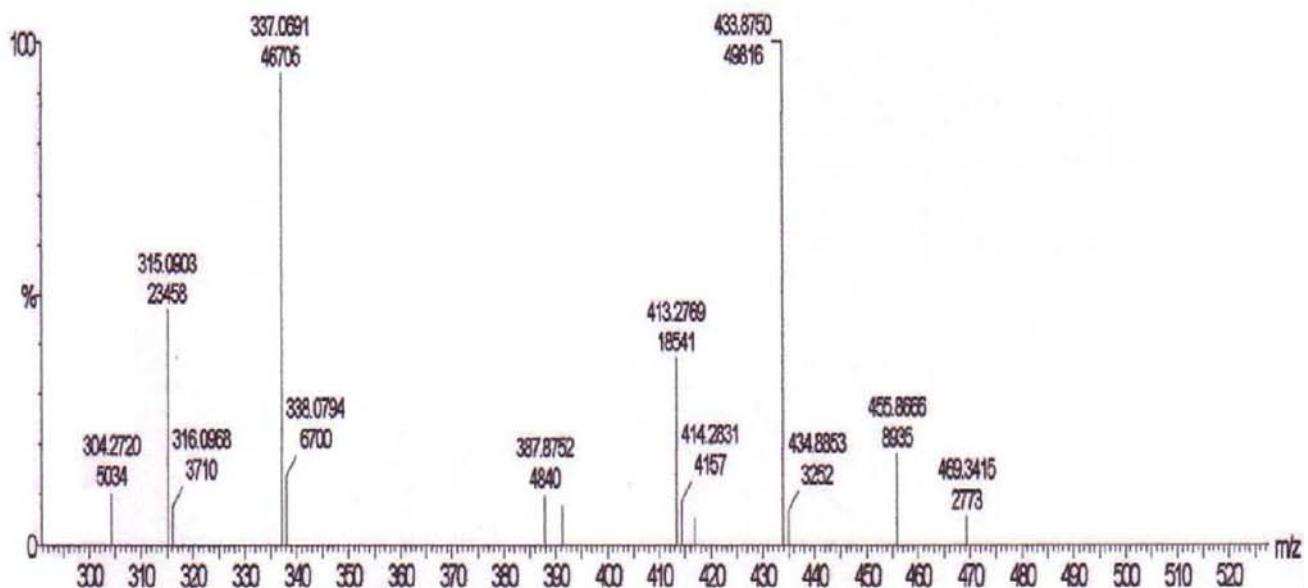
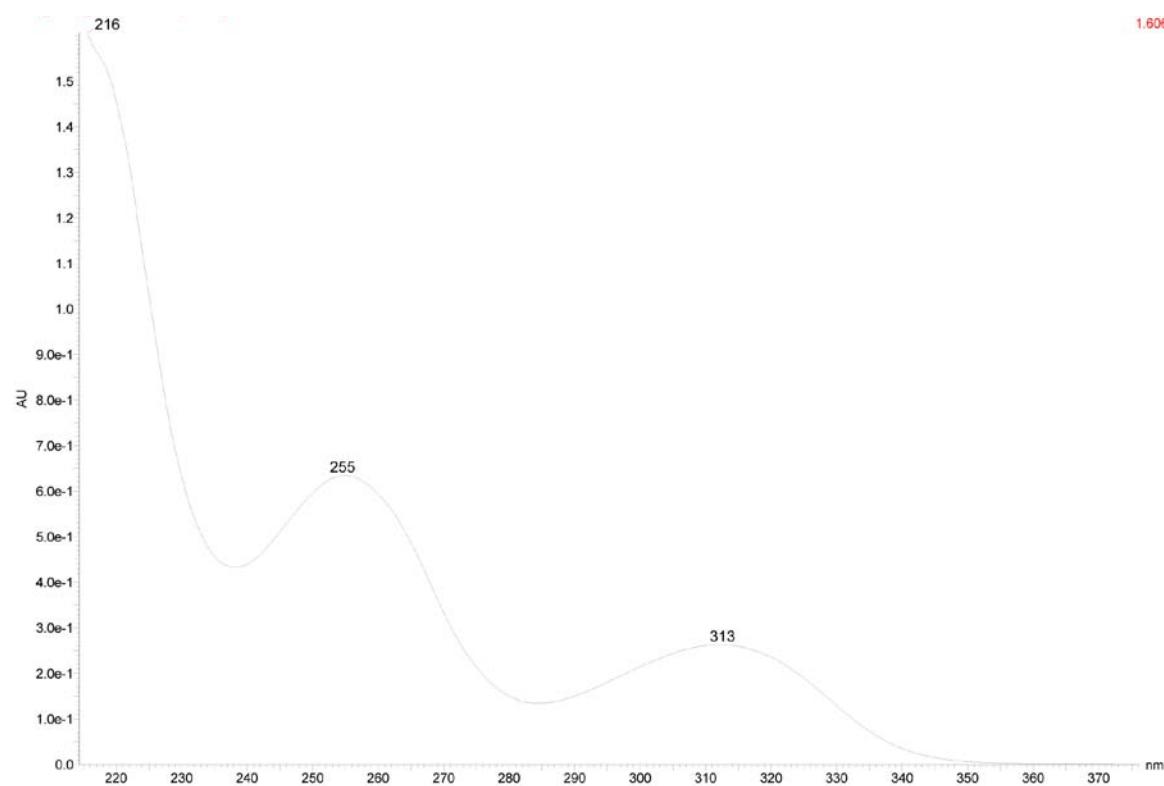
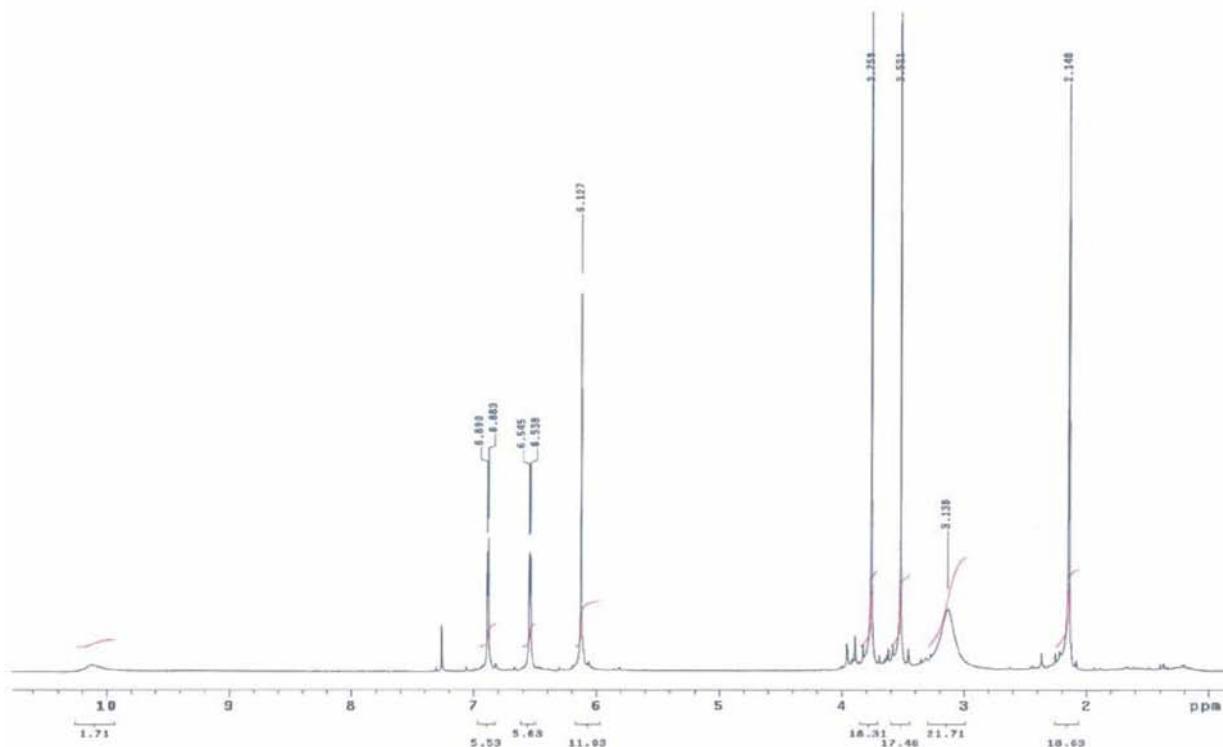


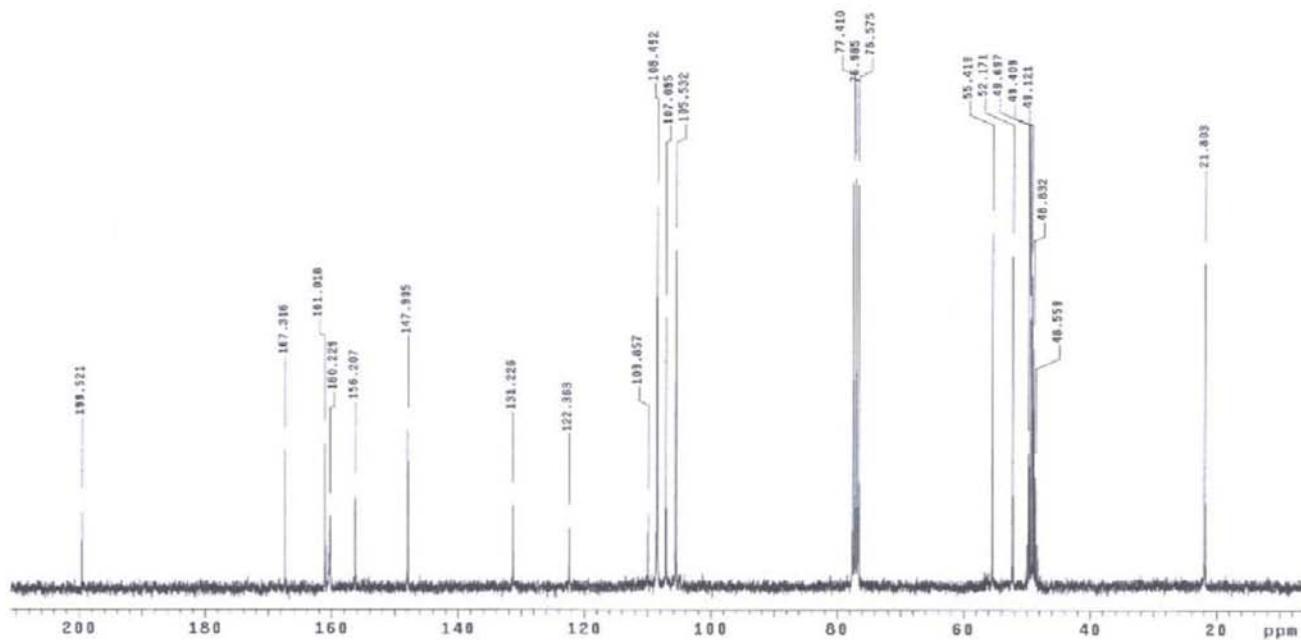
Figure S15. High resolution mass spectrum of compound 1.



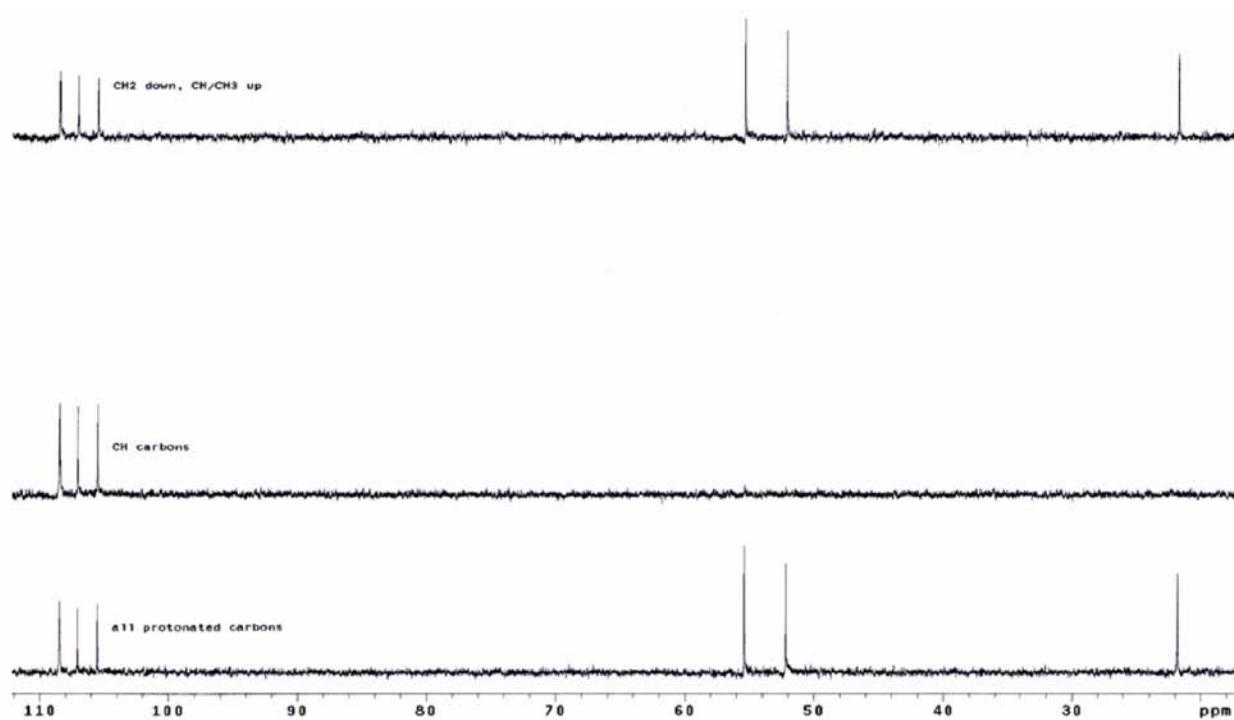
**Figure S16.** UV spectrum (MeOH) of compound **1**.



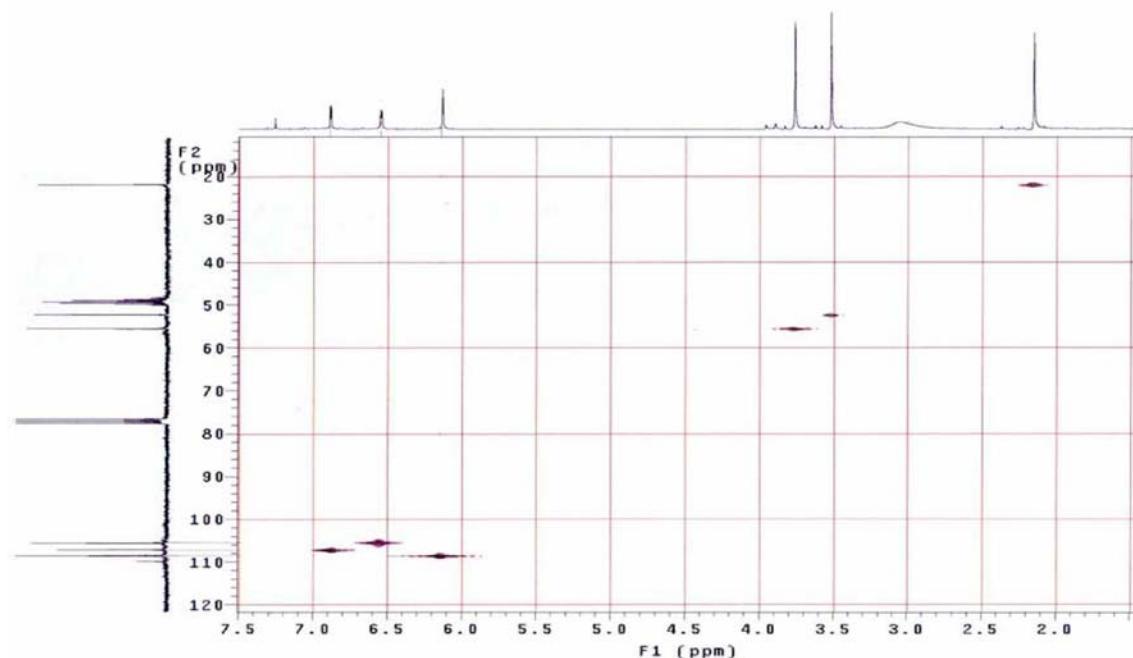
**Figure S17.** <sup>1</sup>H NMR spectrum (300 MHz, CDCl<sub>3</sub>/drops CD<sub>3</sub>OD) of compound **2**.



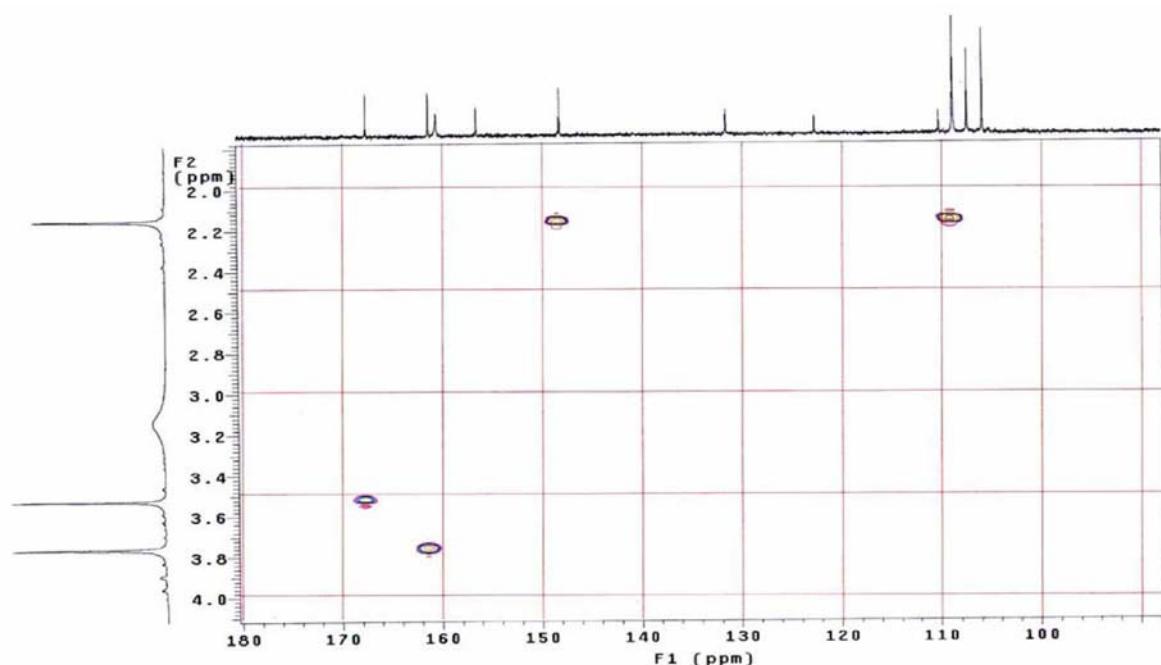
**Figure S18.**  $^{13}\text{C}$  NMR spectrum (75 MHz,  $\text{CDCl}_3$ /drops  $\text{CD}_3\text{OD}$ ) of compound 2.



**Figure S19.** DEPT spectrum (75 MHz,  $\text{CDCl}_3$ /drops  $\text{CD}_3\text{OD}$ ) of compound 2.



**Figure S20.** HETCOR spectrum ( $\text{CDCl}_3/\text{drops CD}_3\text{OD}$ ) of compound **2**.



**Figure S21.** HMBC spectrum ( $\text{CDCl}_3/\text{drops CD}_3\text{OD}$ ) of compound **2** (expansion).

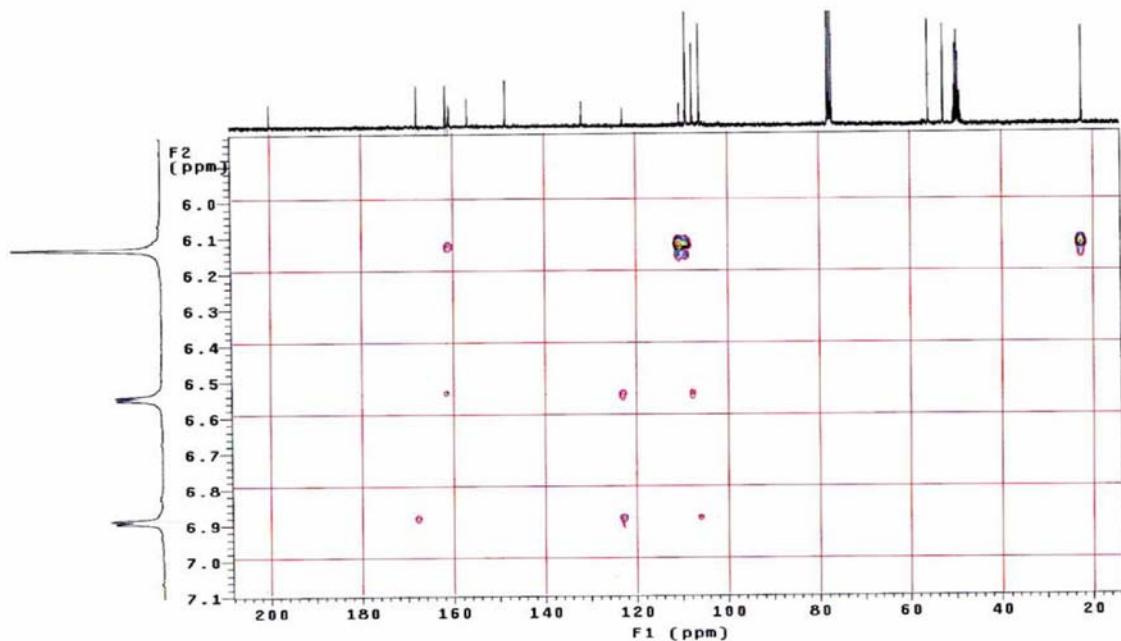


Figure S22. HMBC spectrum ( $\text{CDCl}_3$ /drops  $\text{CD}_3\text{OD}$ ) of compound 2 (expansion).

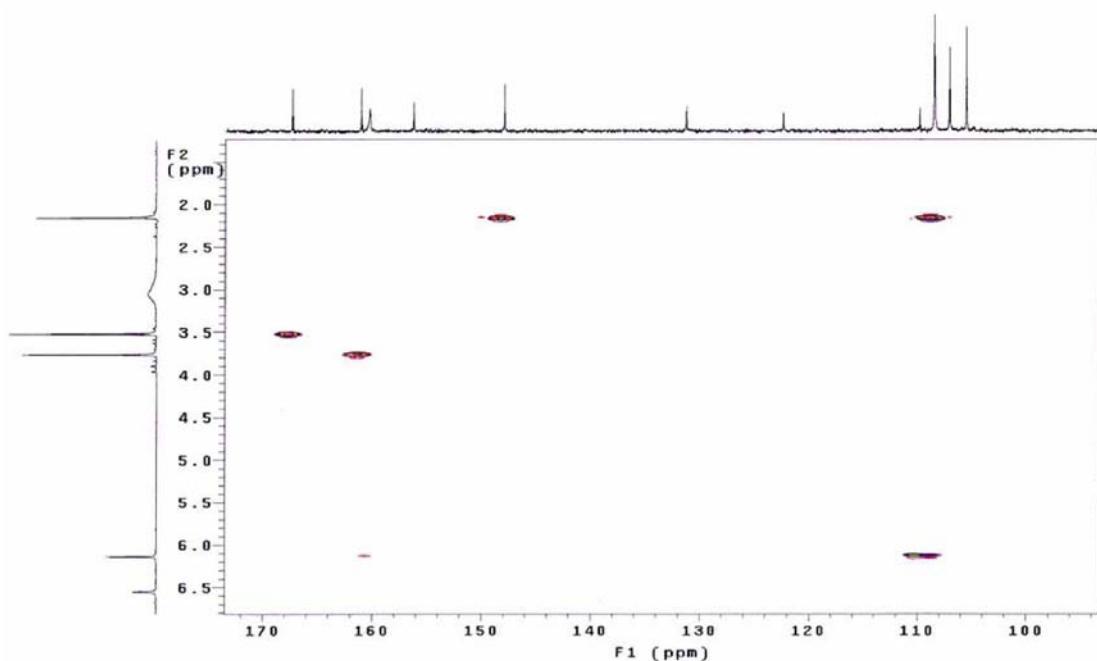
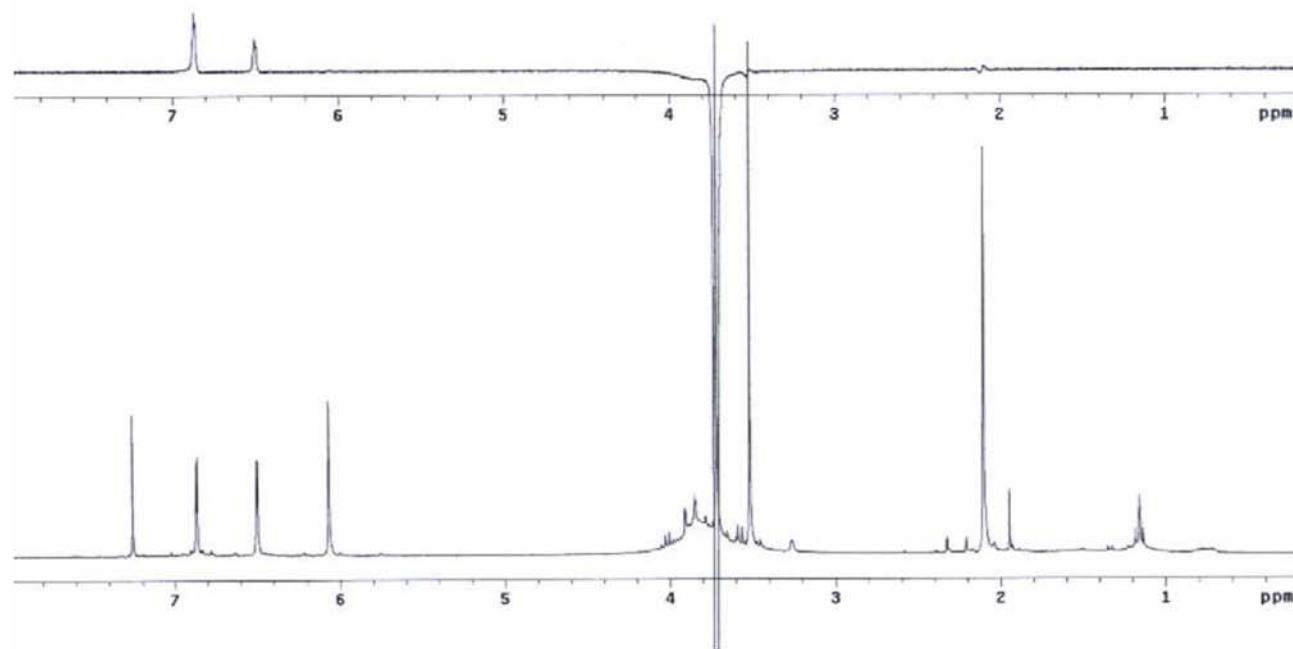
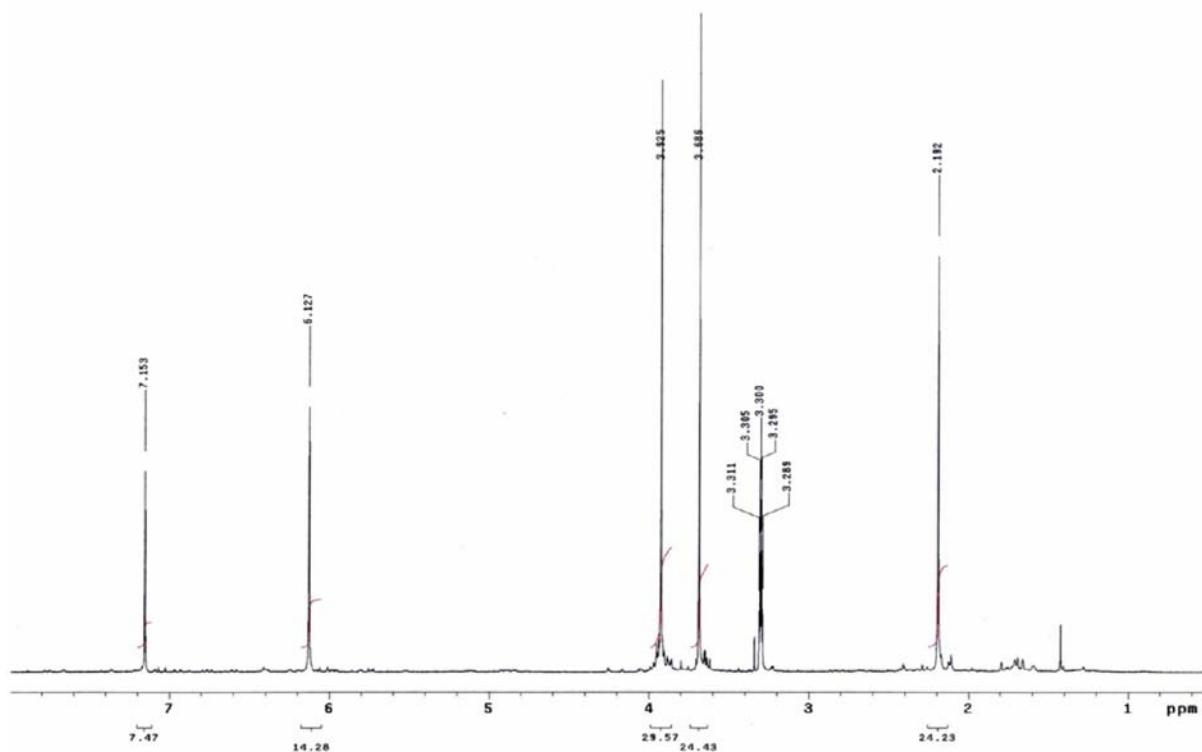


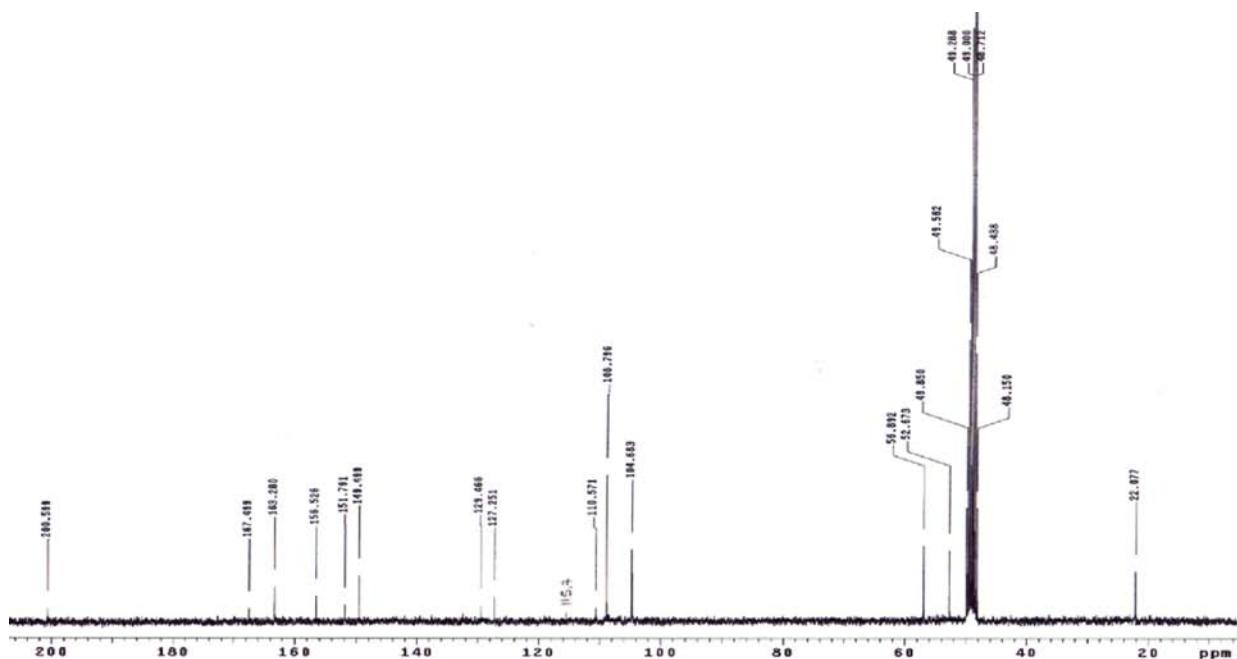
Figure S23. HMBC spectrum ( $\text{CDCl}_3$ /drops  $\text{CD}_3\text{OD}$ ) of compound 2 (expansion).



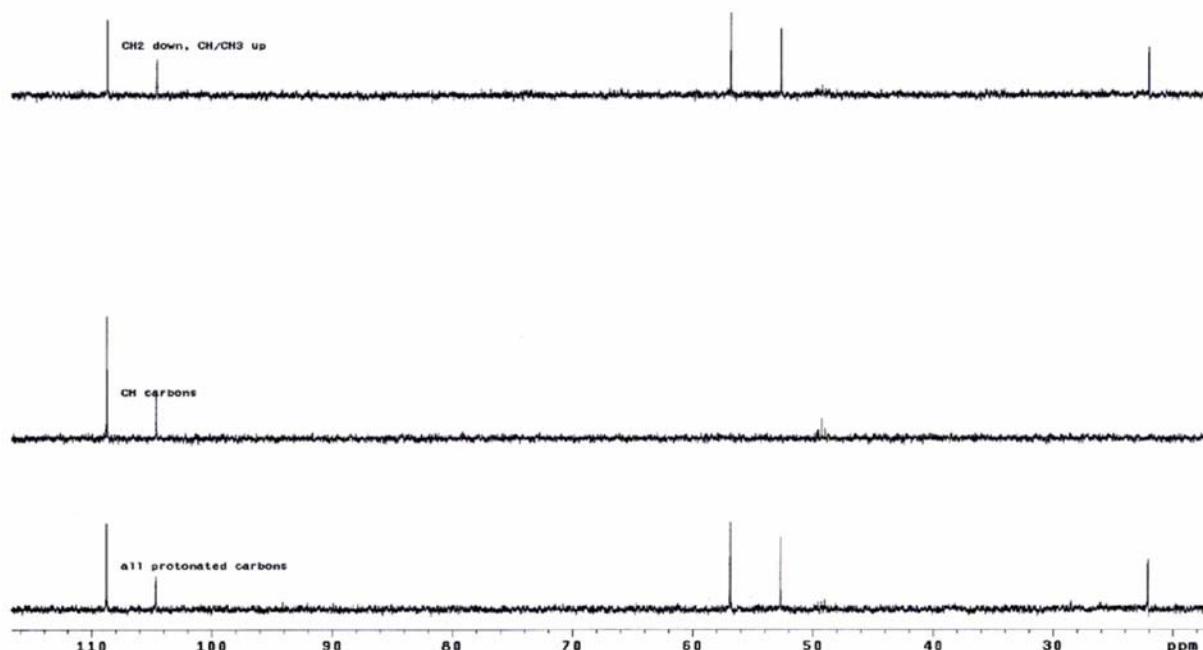
**Figure S24.** NOEDIF spectrum (irradiation at 3.76 ppm) of compound 2.



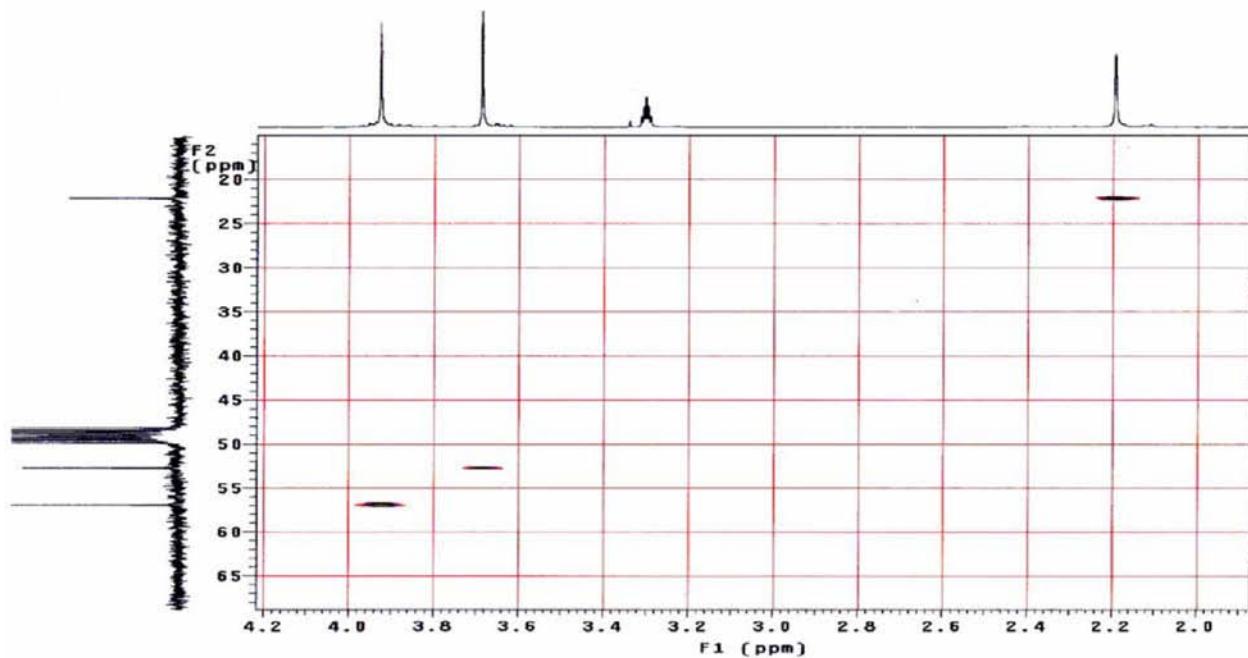
**Figure S25.** <sup>1</sup>H NMR spectrum (300 MHz, CD<sub>3</sub>OD) of compound 3.



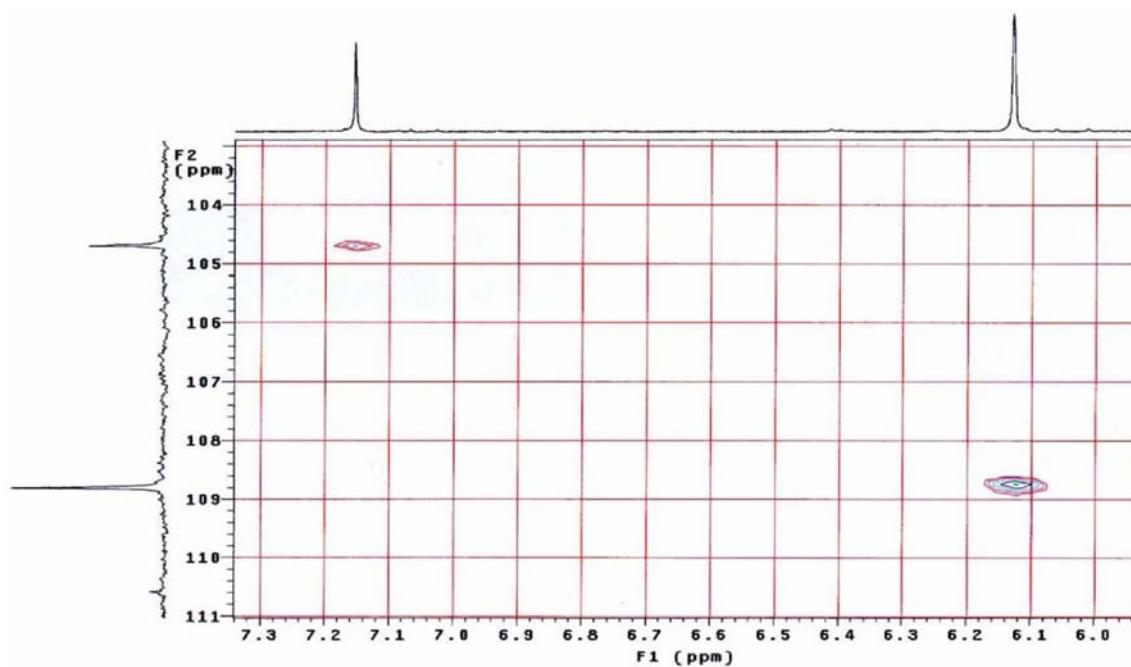
**Figure S26.**  $^{13}\text{C}$  NMR spectrum (75 MHz,  $\text{CD}_3\text{OD}$ ) of compound 3.



**Figure S27.** DEPT spectrum (75 MHz,  $\text{CD}_3\text{OD}$ ) of compound 3.



**Figure S28.** HETCOR spectrum ( $\text{CD}_3\text{OD}$ ) of compound 3 (expansion).



**Figure S29.** HETCOR spectrum ( $\text{CD}_3\text{OD}$ ) of compound 3 (expansion).

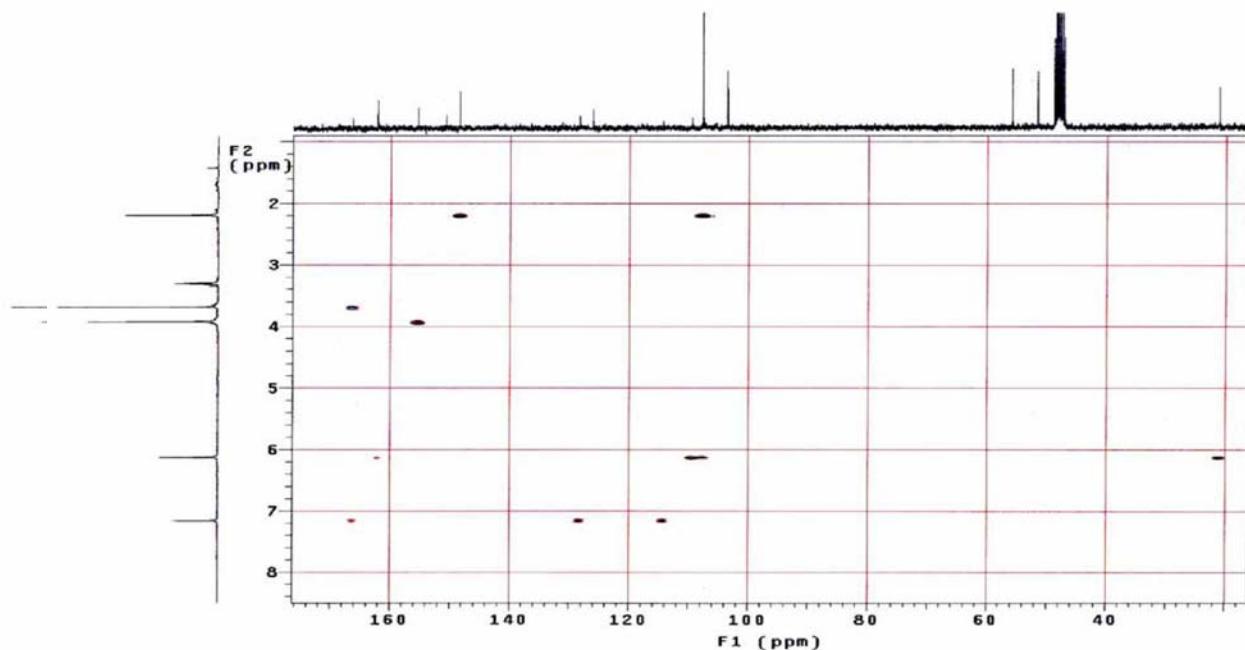


Figure S30. HMBC spectrum ( $\text{CD}_3\text{OD}$ ) of compound 3.

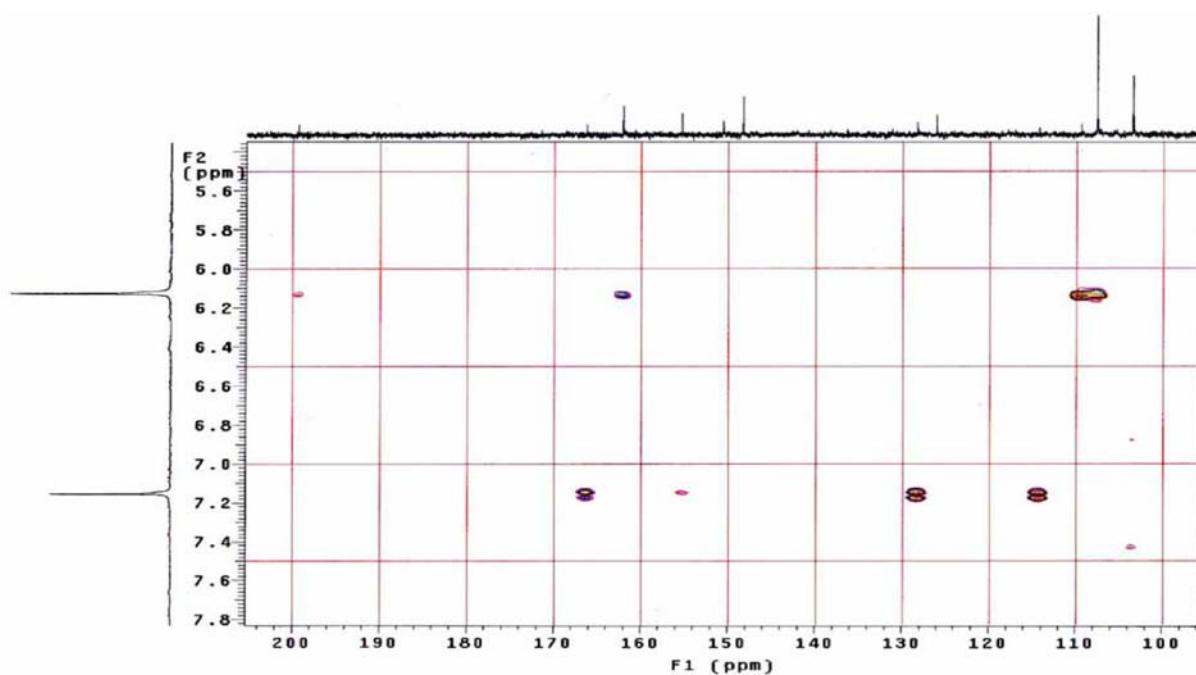
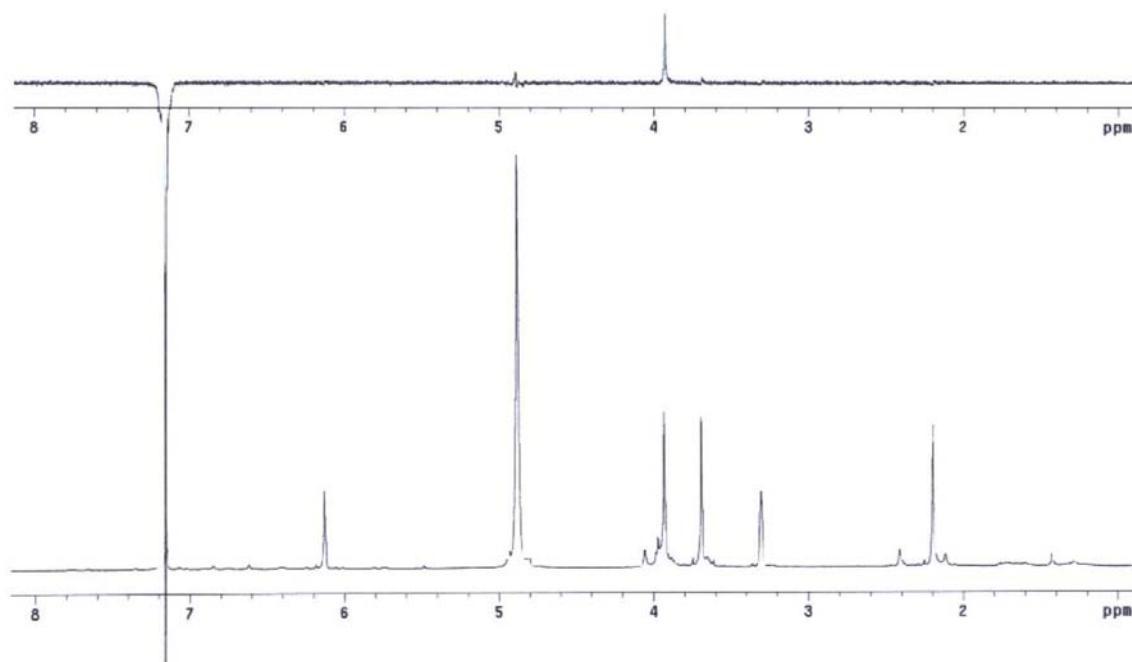
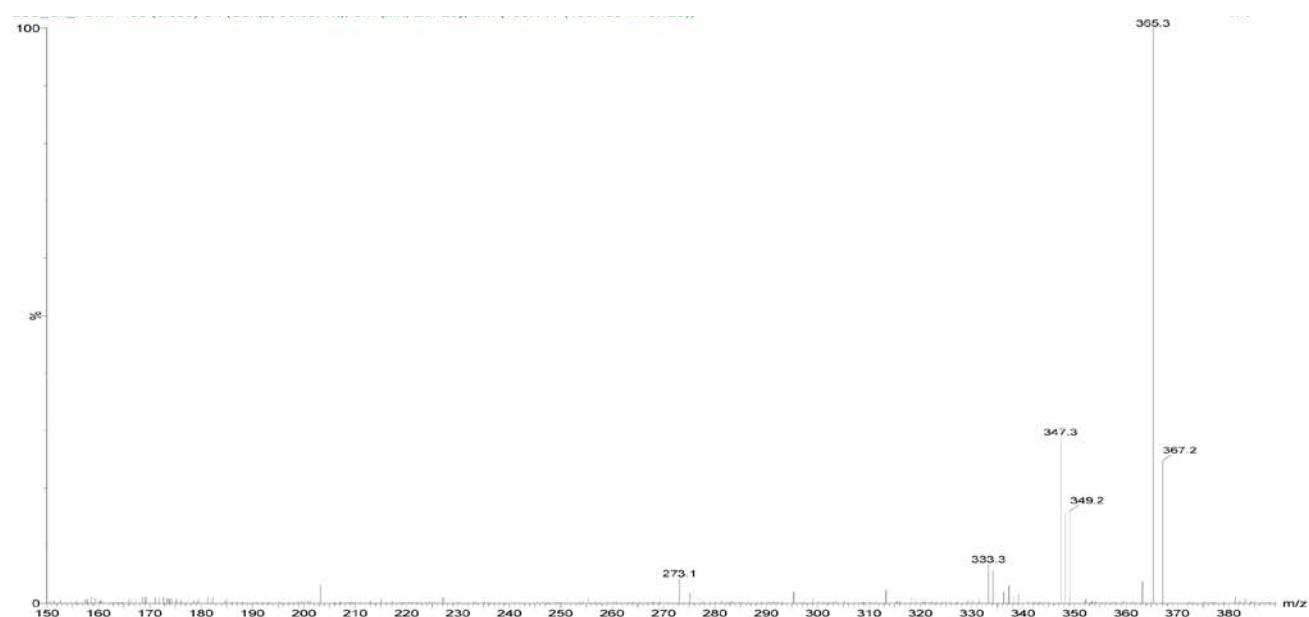


Figure S31. HMBC spectrum ( $\text{CD}_3\text{OD}$ ) of compound 3 (expansion).



**Figure S32.** NOEDIF spectrum (irradiation at 7.15 ppm) of compound 3.



**Figure S33.** Low resolution mass spectrum of compound 3.