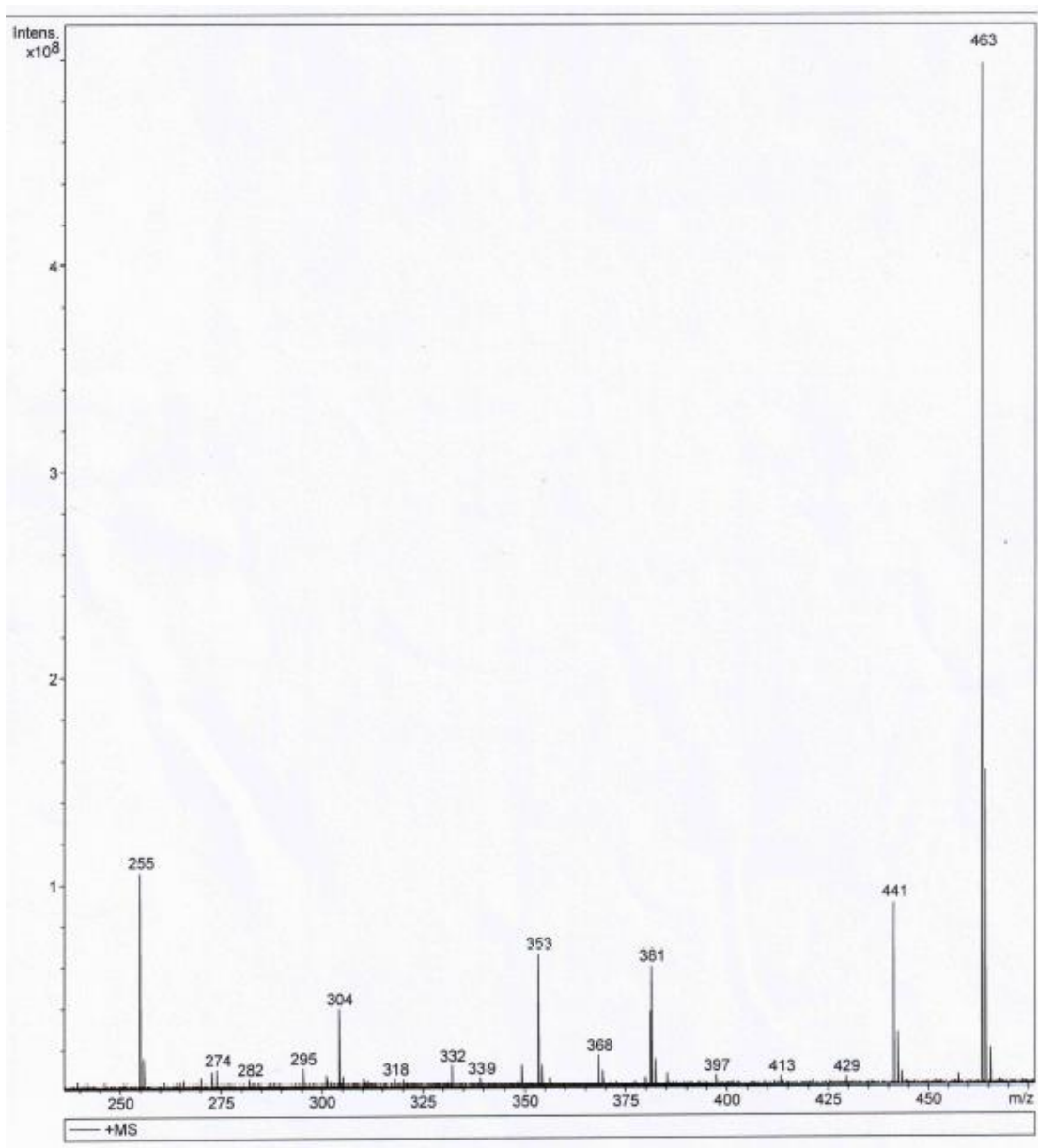
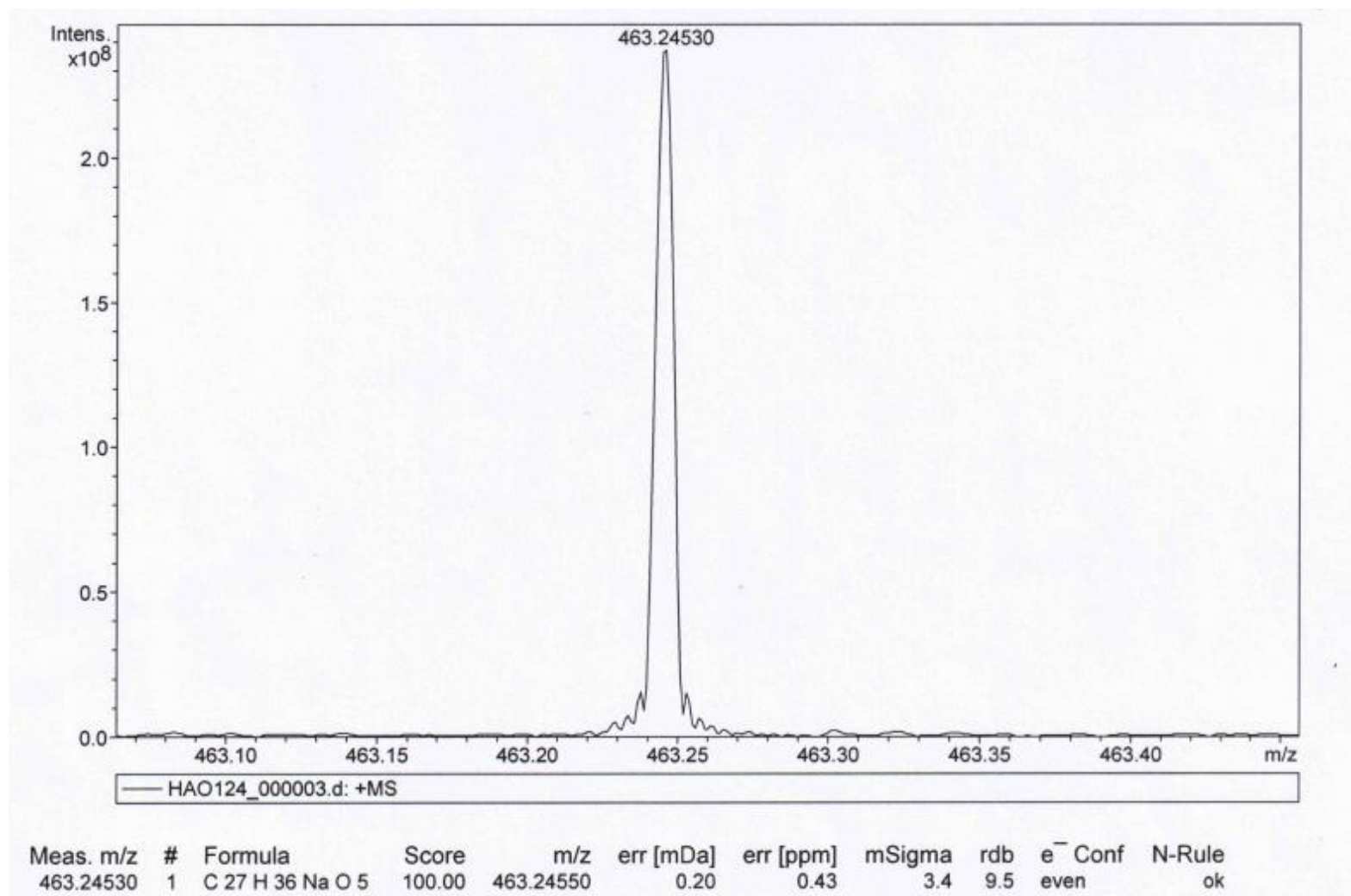


## Supplementary materials

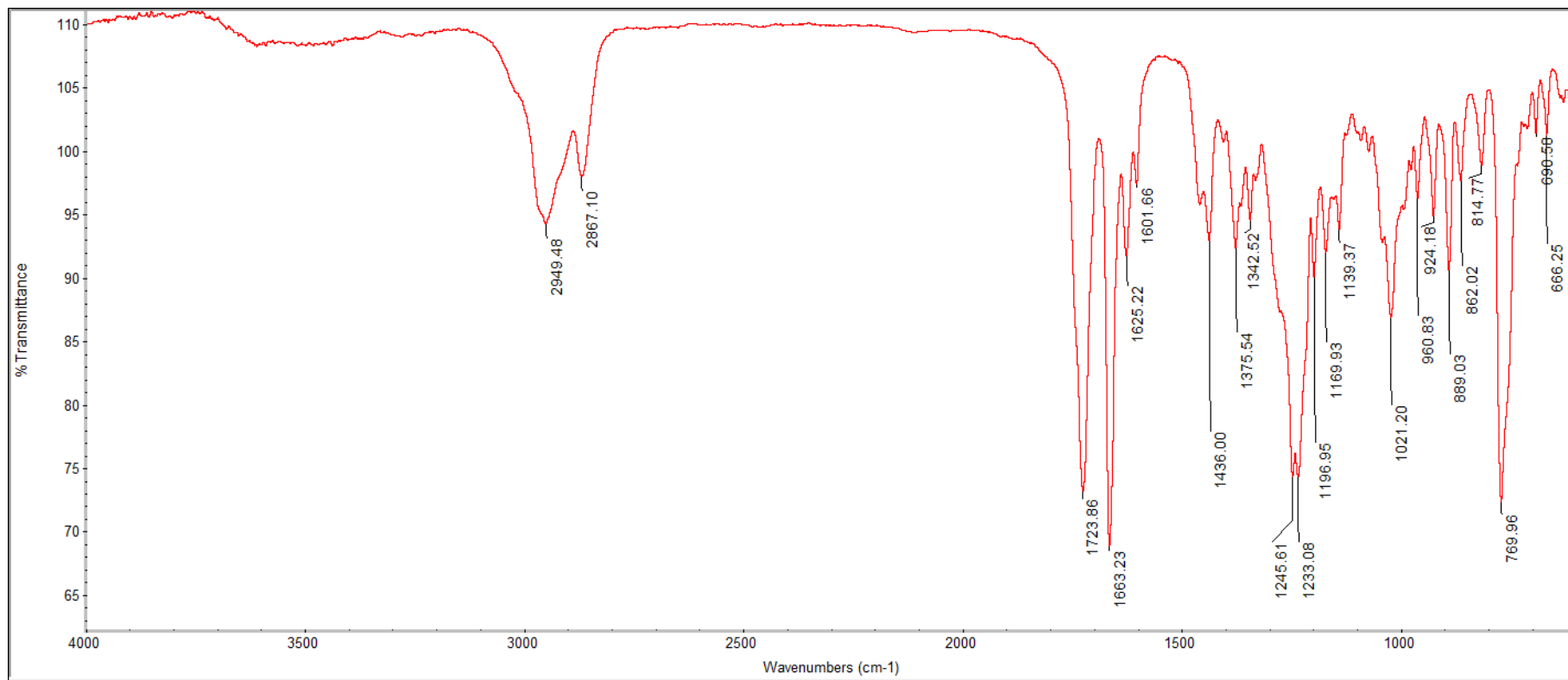
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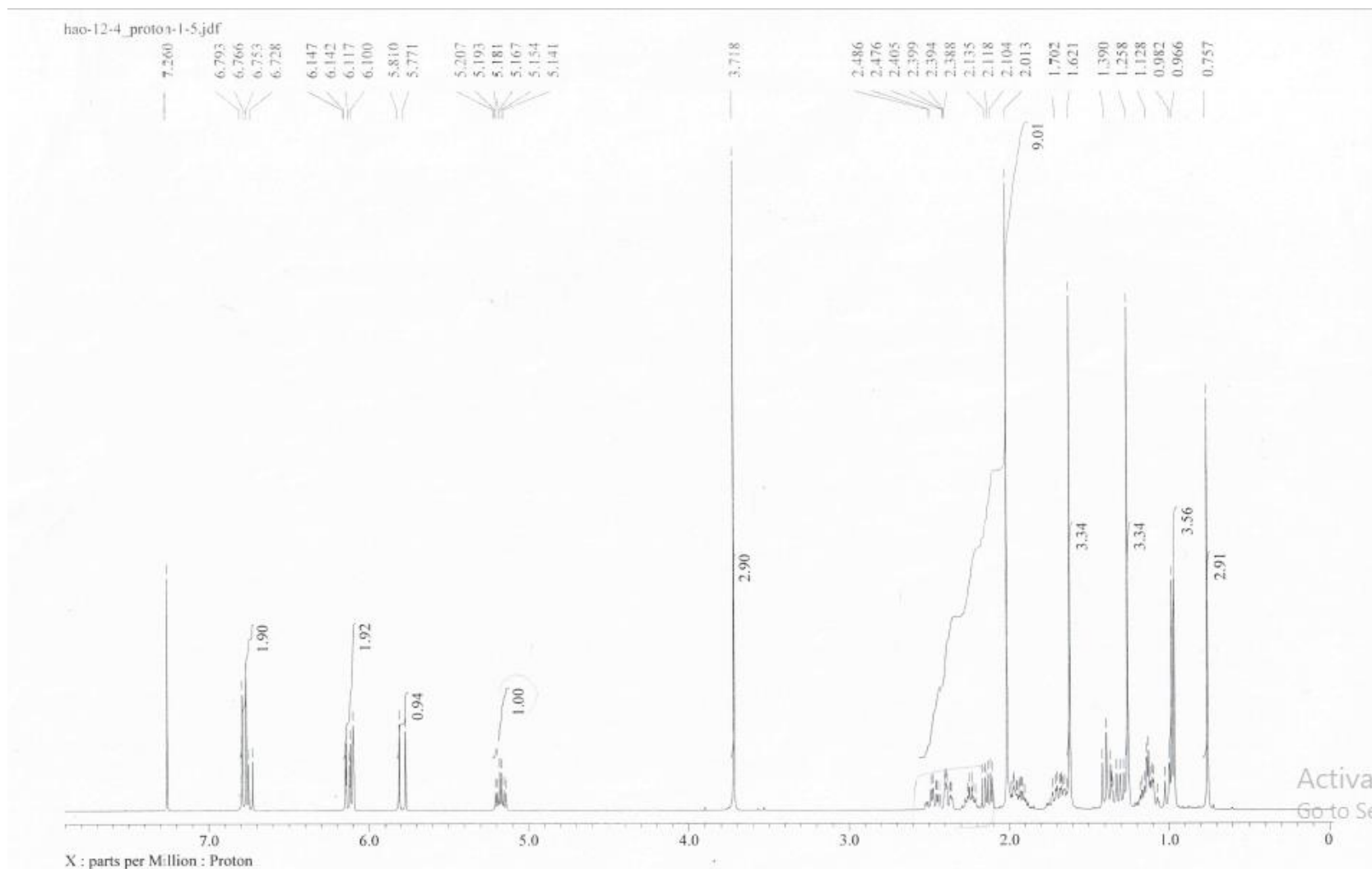
S1. ESIMS spectrum of compound 1



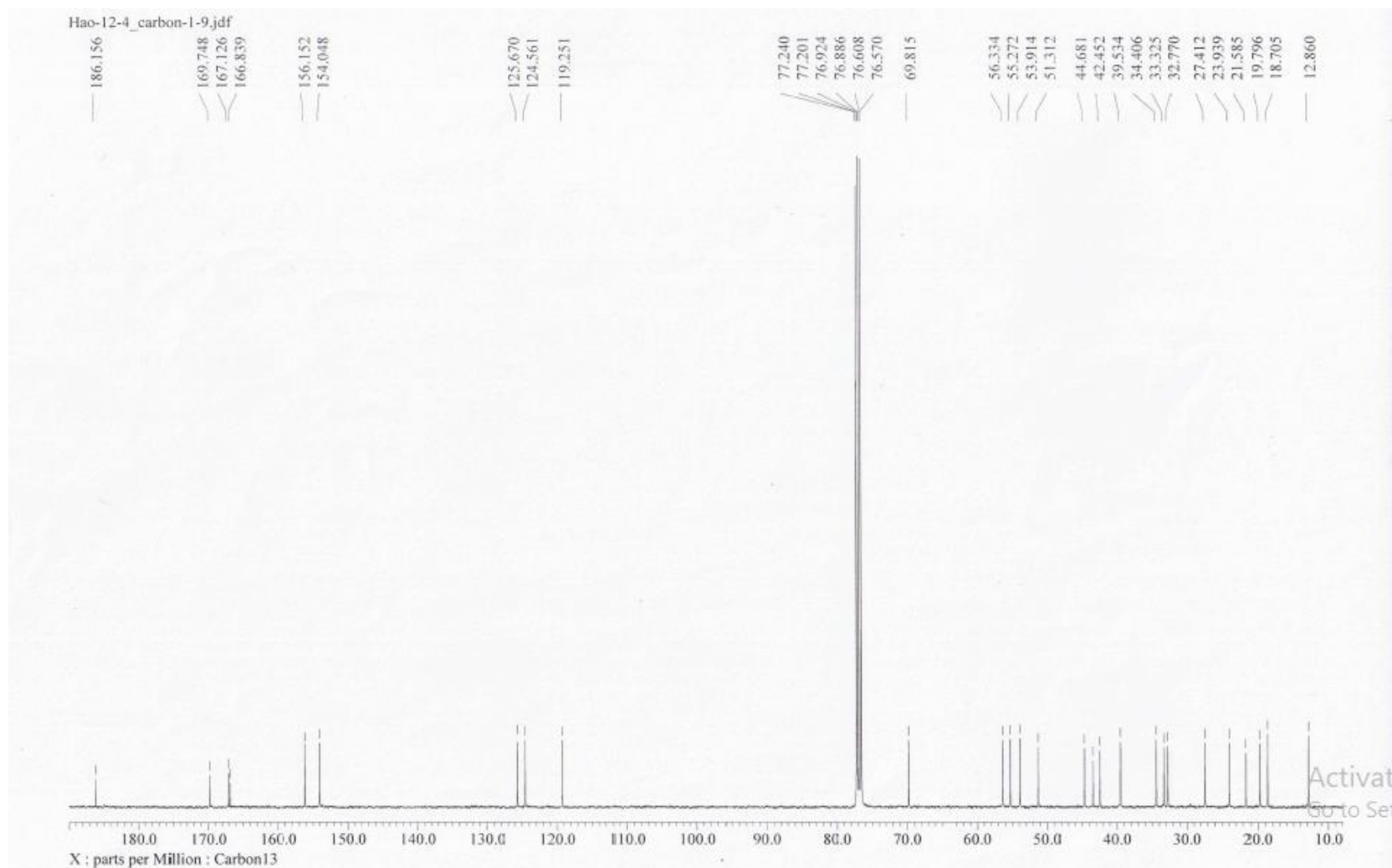
S2. HRESIMS spectrum of compound 1



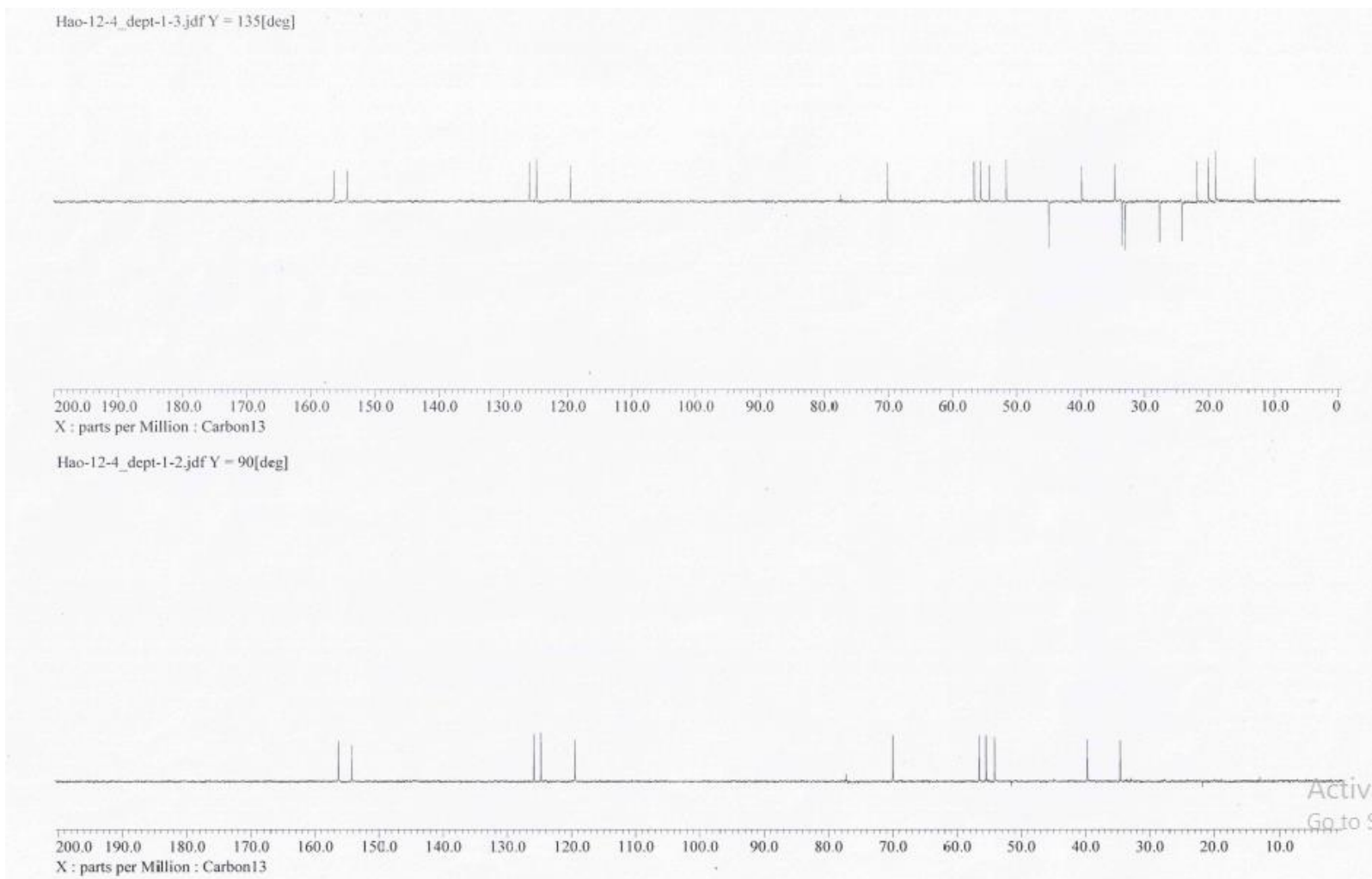
S3. IR spectrum of compound 1



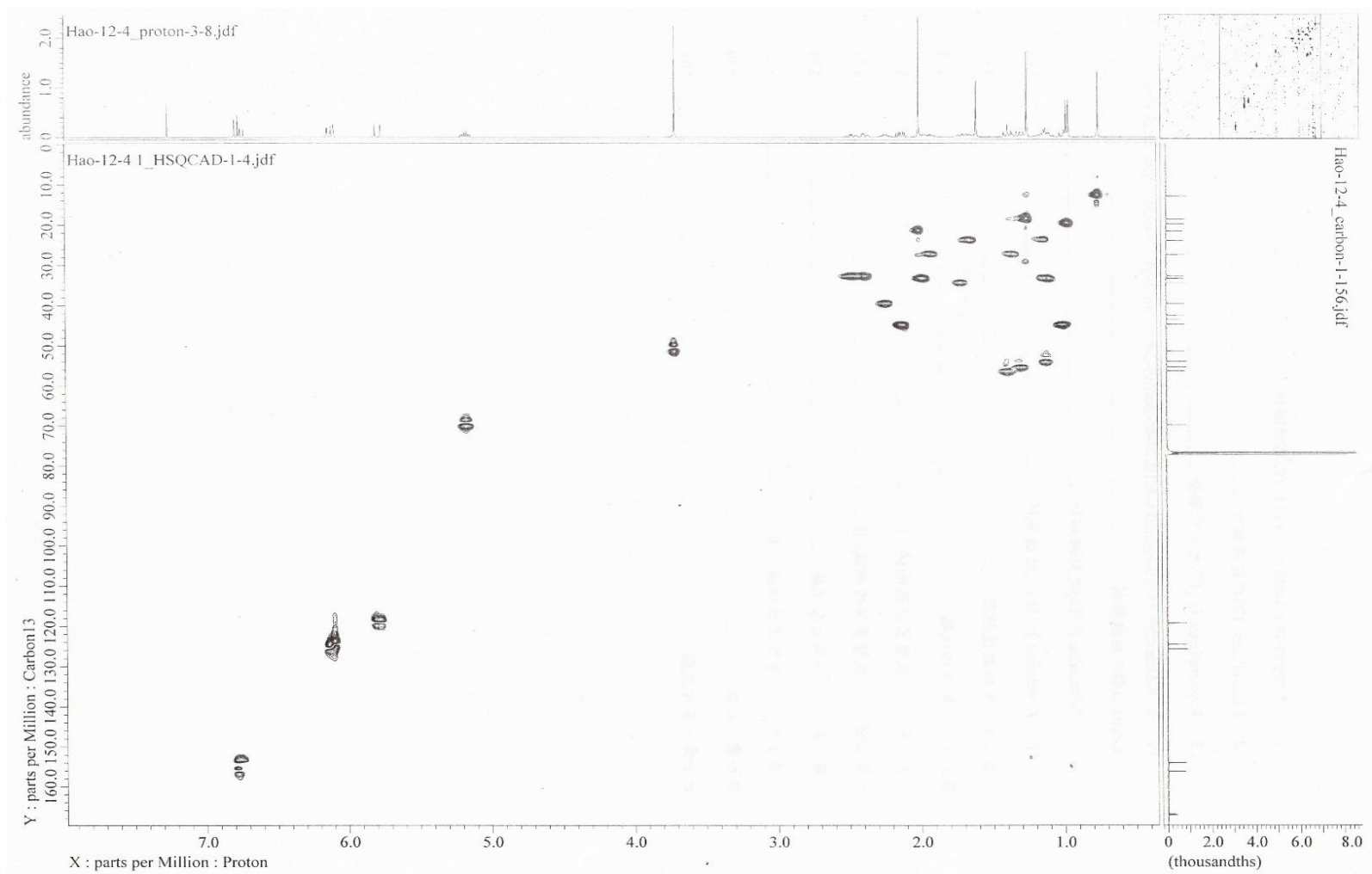
S4.  $^1\text{H}$  NMR spectrum (400 MHz) of compound **1** in  $\text{CDCl}_3$



S5.  $^{13}\text{C}$  NMR spectrum (100 MHz) of compound **1** in  $\text{CDCl}_3$

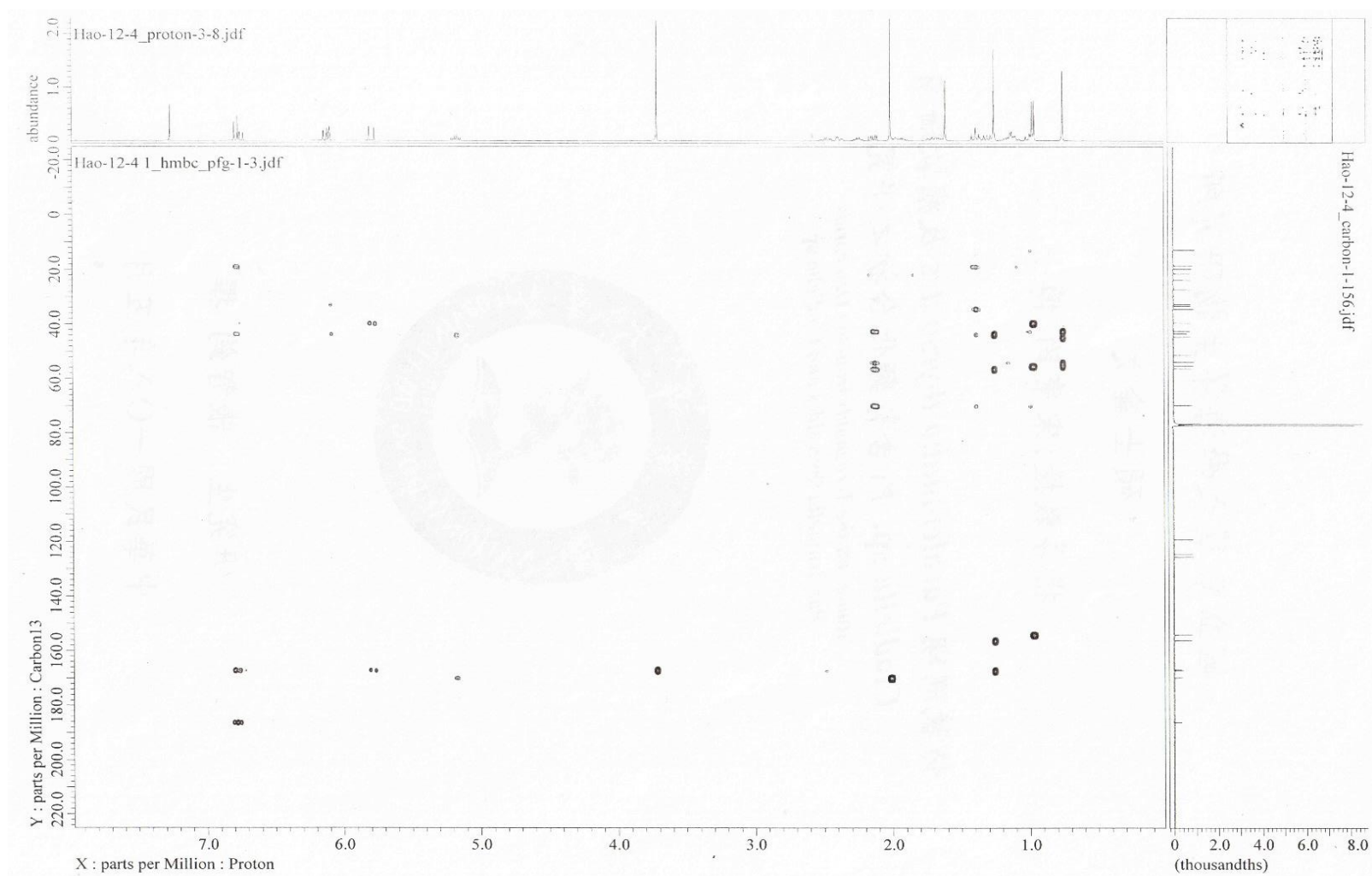


S6. DEPT spectrum (100 MHz) of compound **1** in  $\text{CDCl}_3$

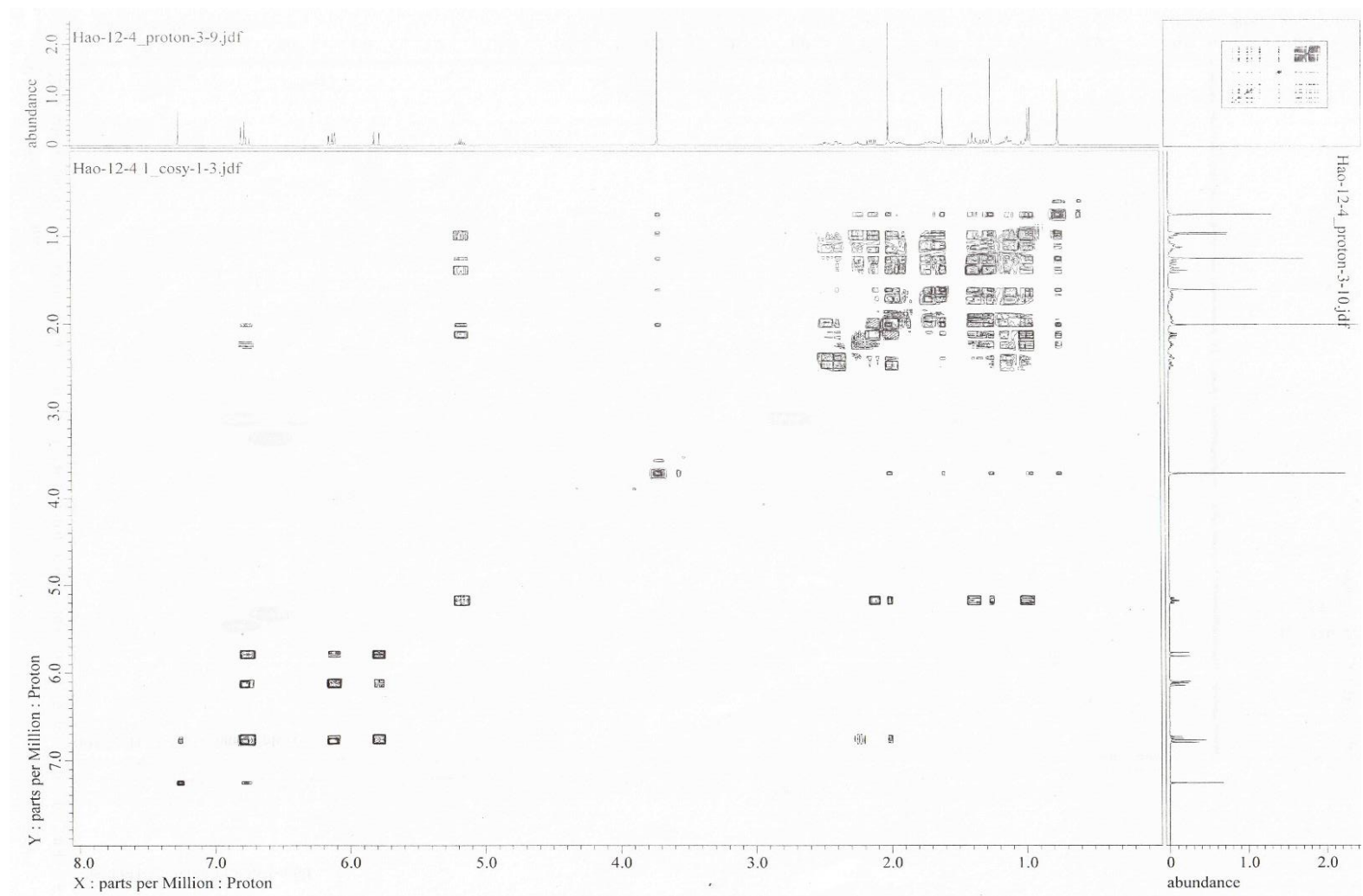


S7. HSQC spectrum of compound **1** in CDCl<sub>3</sub>

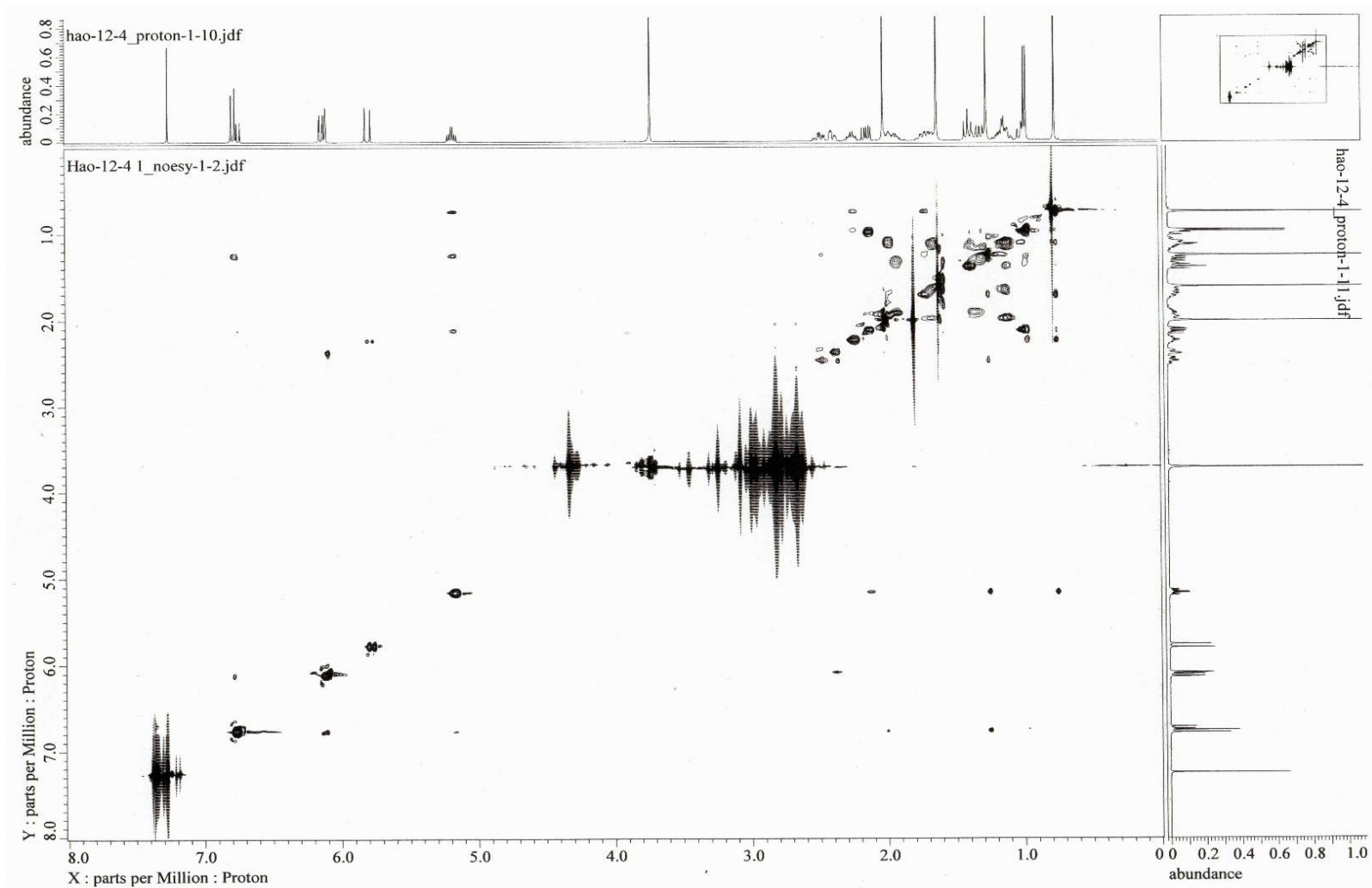




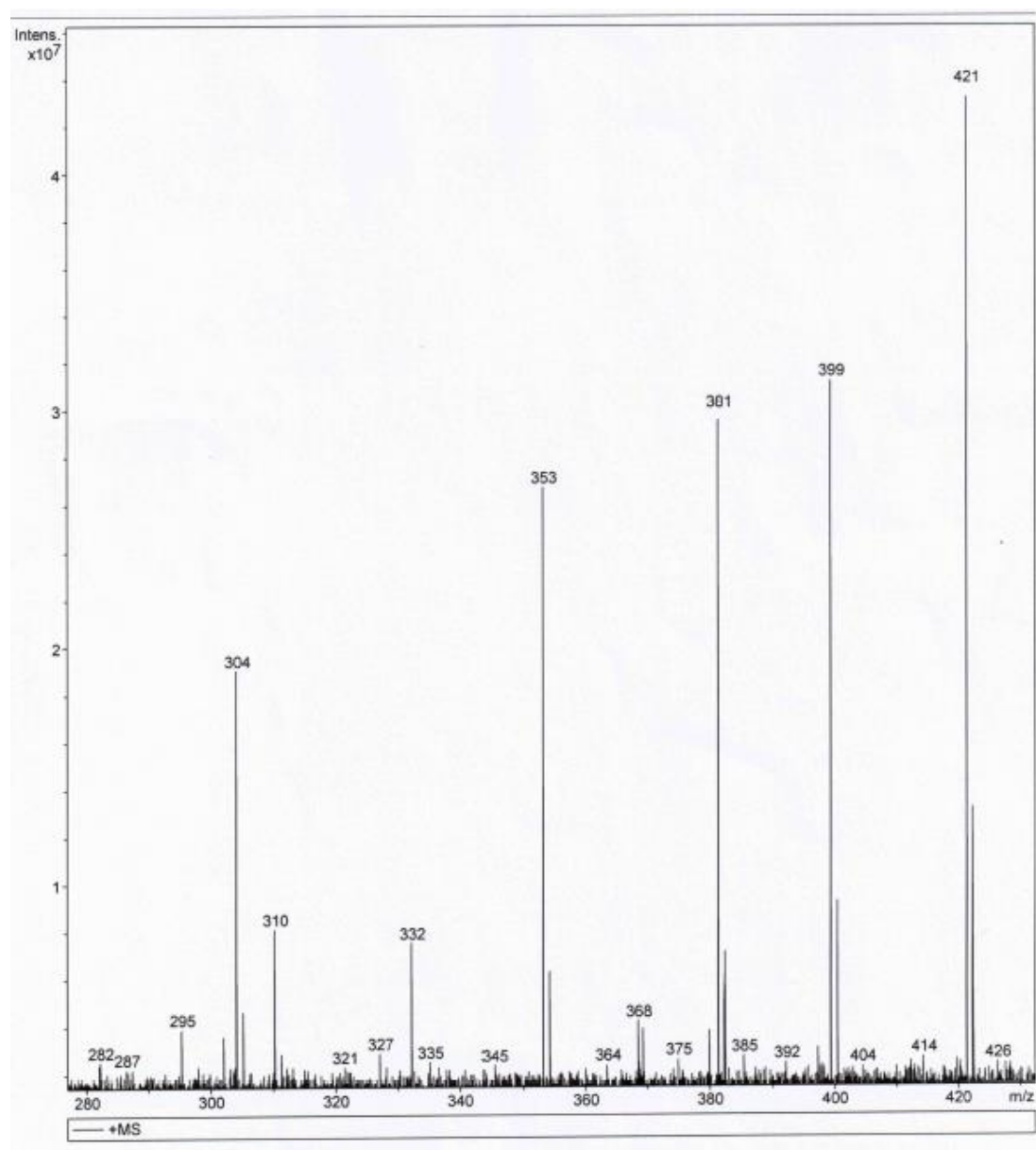
S8. HMBC spectrum of compound **1** in CDCl<sub>3</sub>



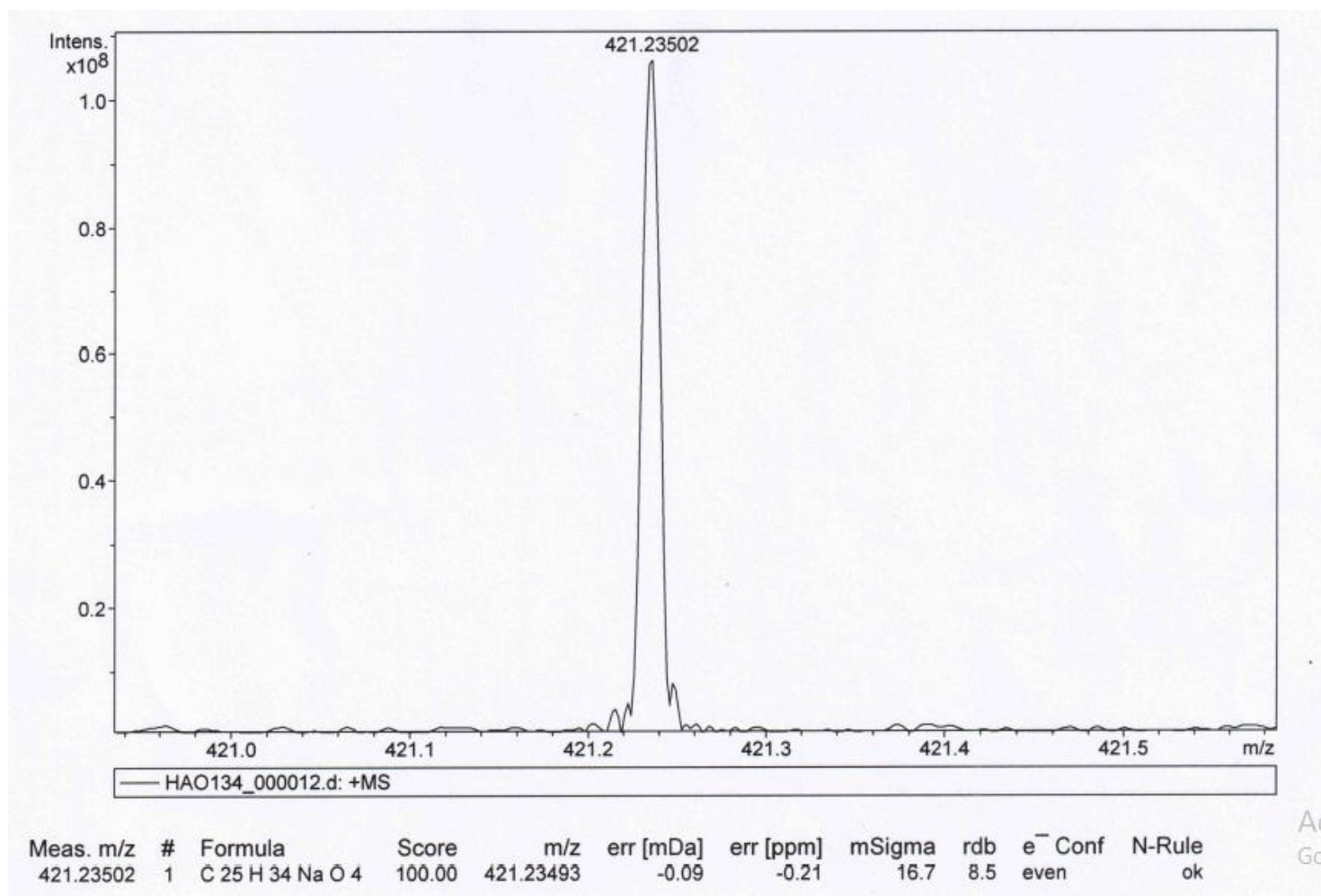
S9.  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of compound **1** in  $\text{CDCl}_3$



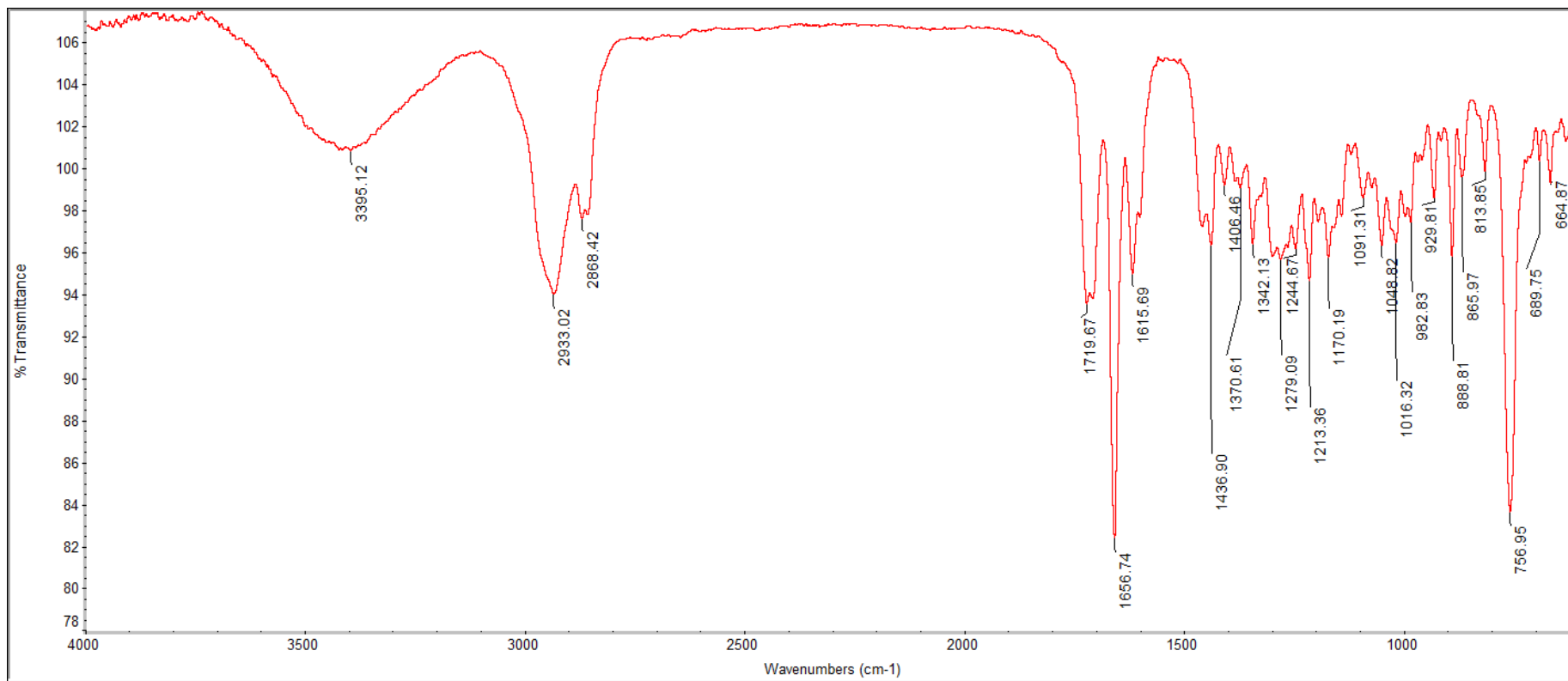
S10. NOESY spectrum of compound **1** in CDCl<sub>3</sub>



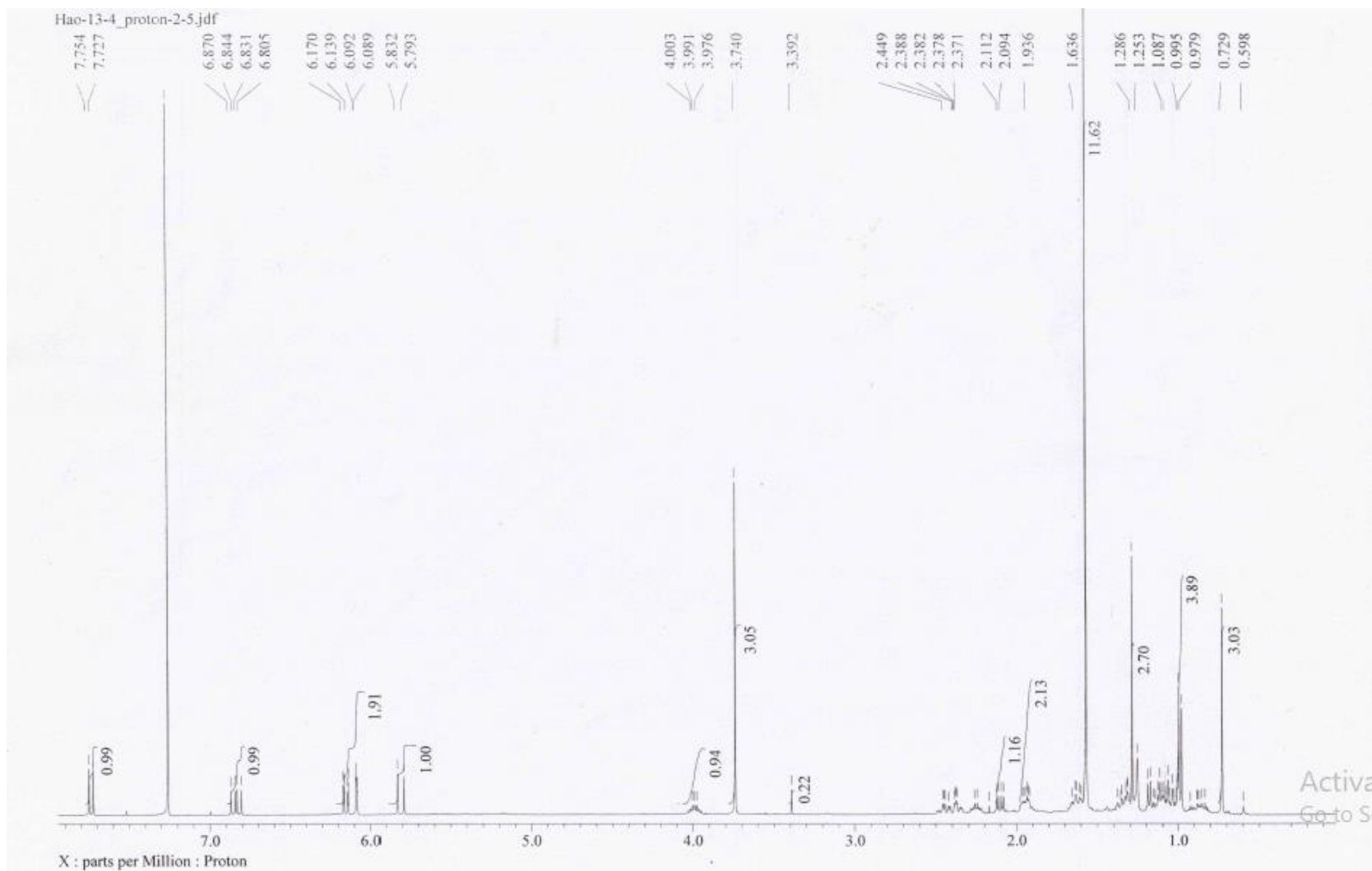
S11. ESIMS spectrum of compound 2



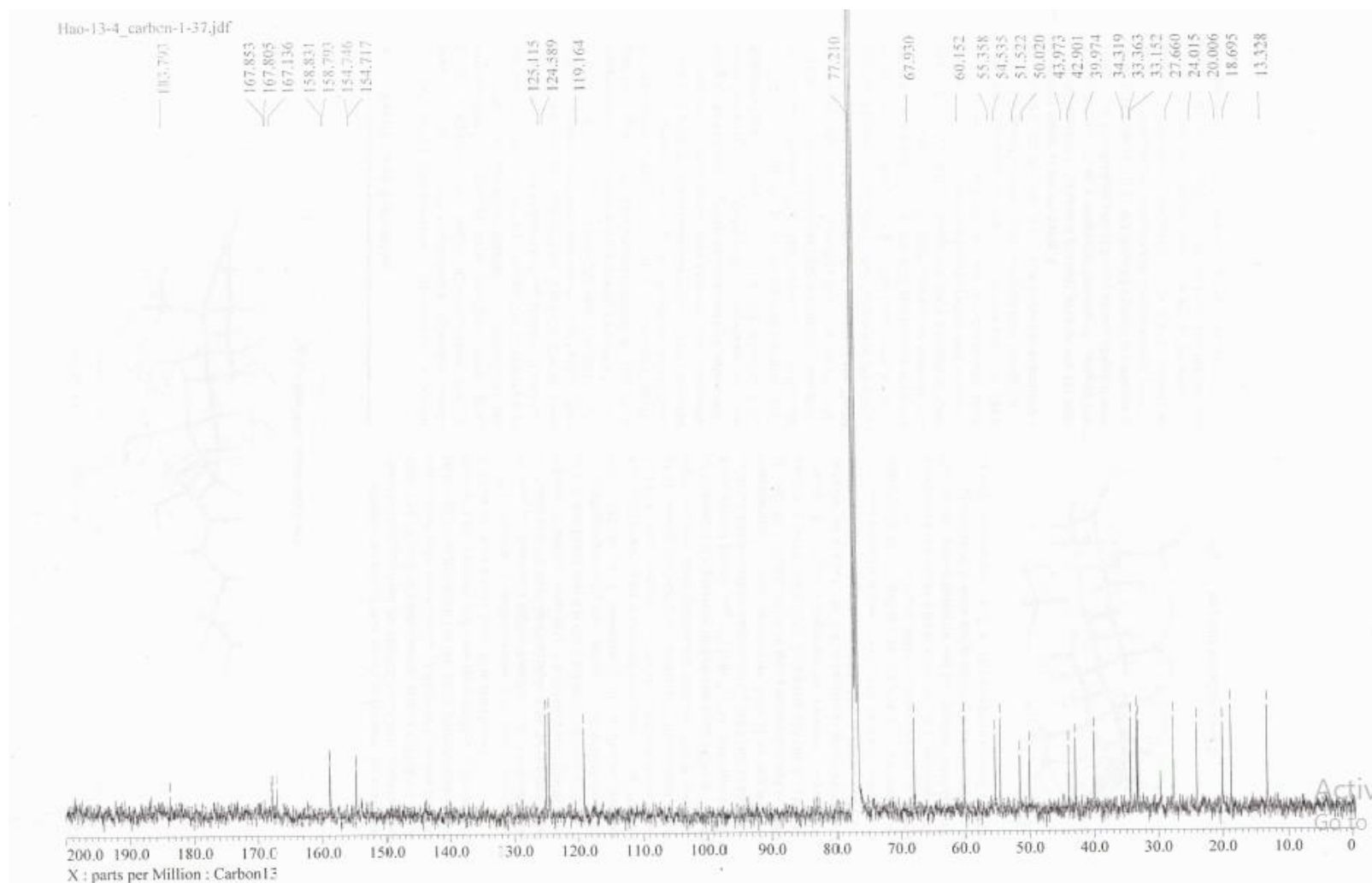
S12. HRESIMS spectrum of compound 2



S13. IR spectrum of compound 2

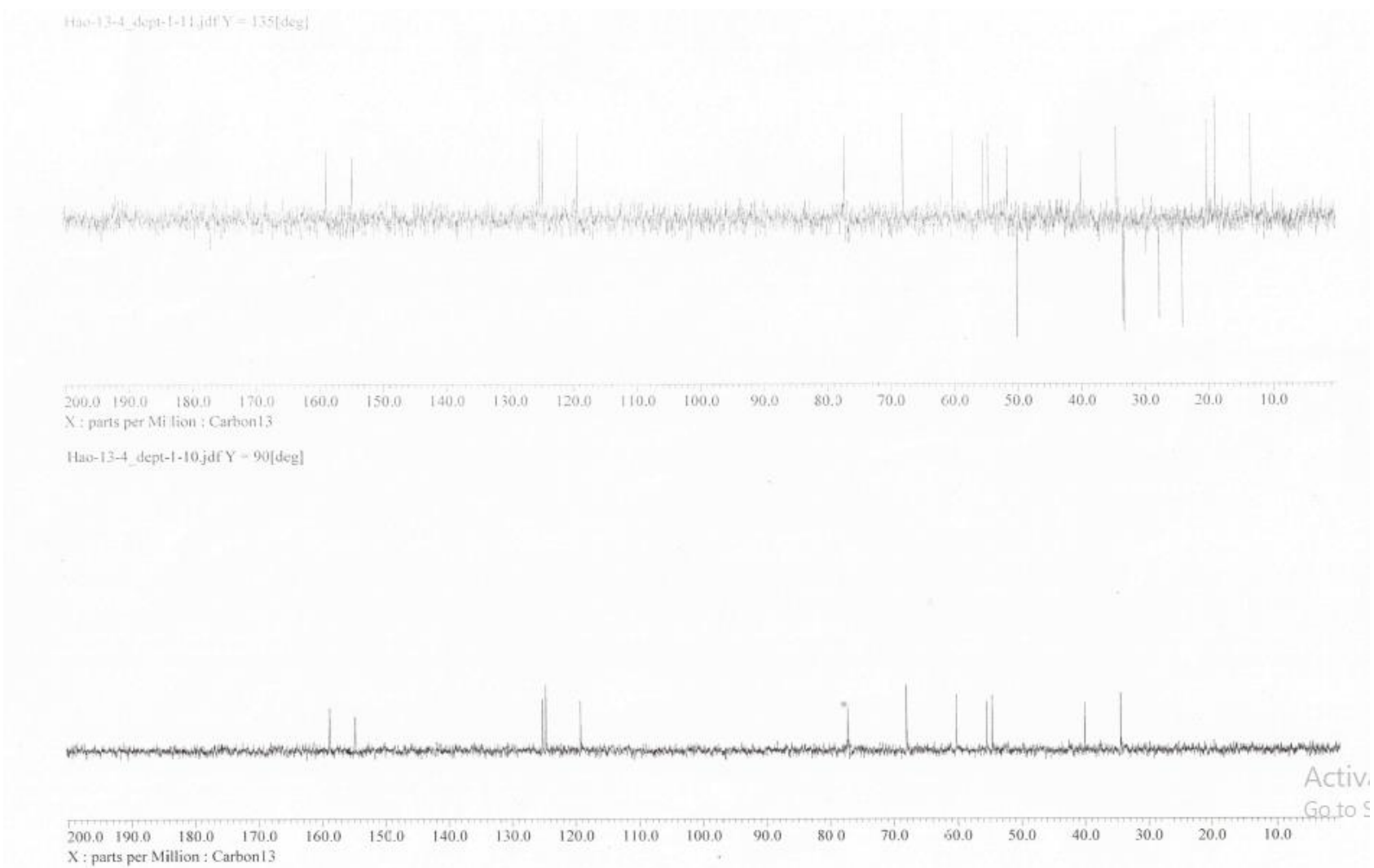


S14.  $^1\text{H}$  NMR spectrum (400 MHz) of compound **2** in  $\text{CDCl}_3$

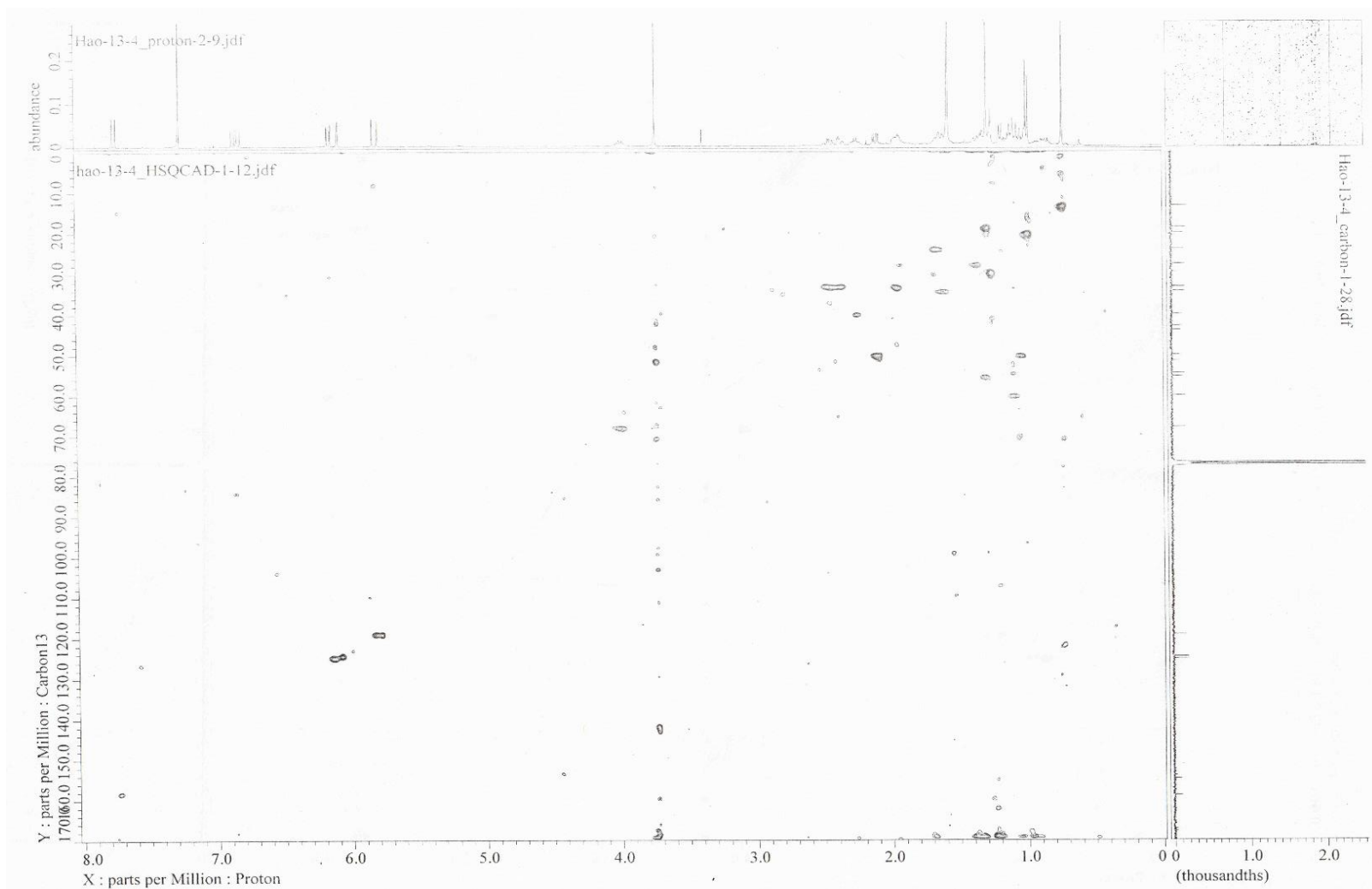


S15.  $^{13}\text{C}$  NMR spectrum (100 MHz) of compound **2** in  $\text{CDCl}_3$

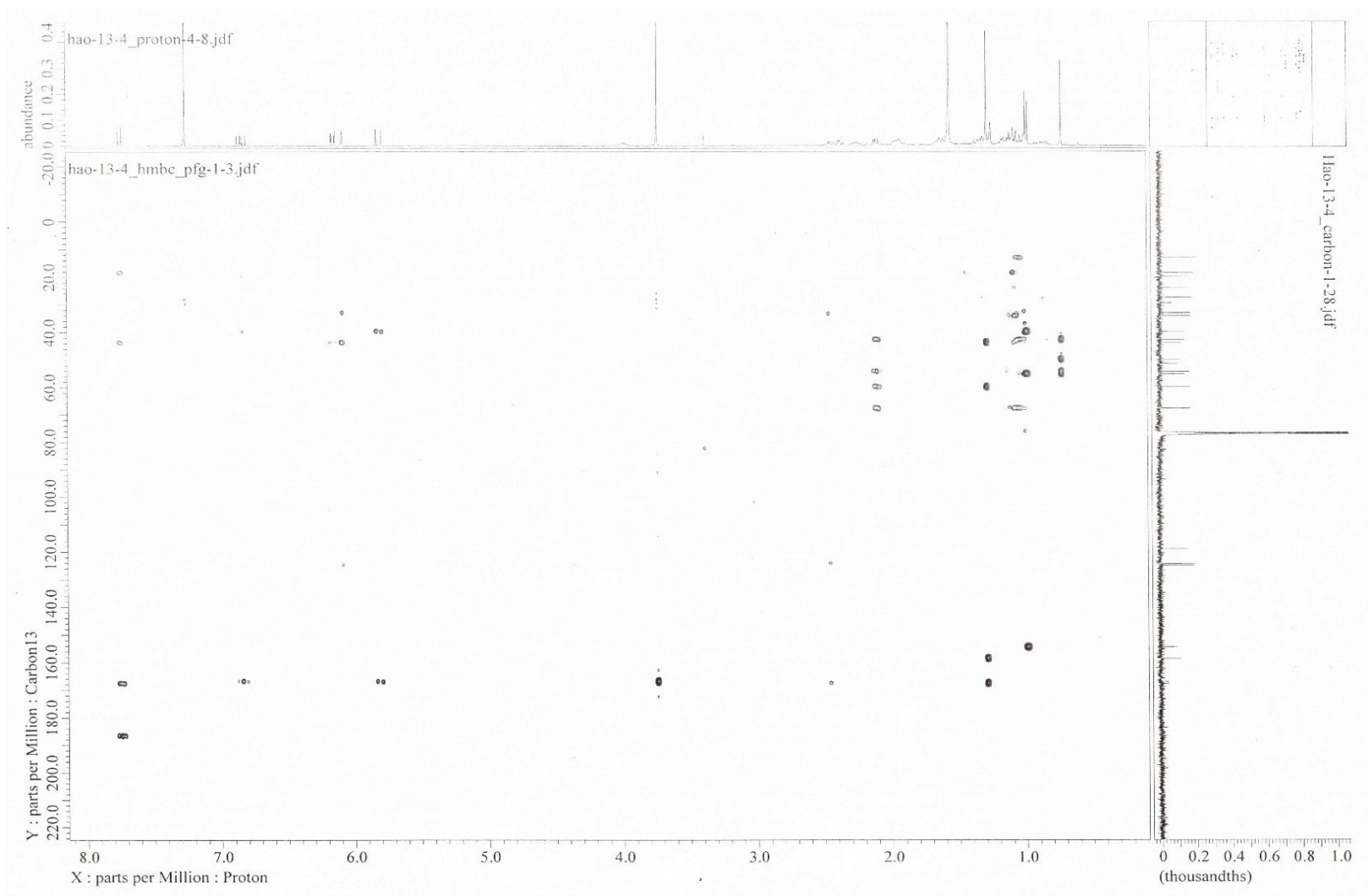




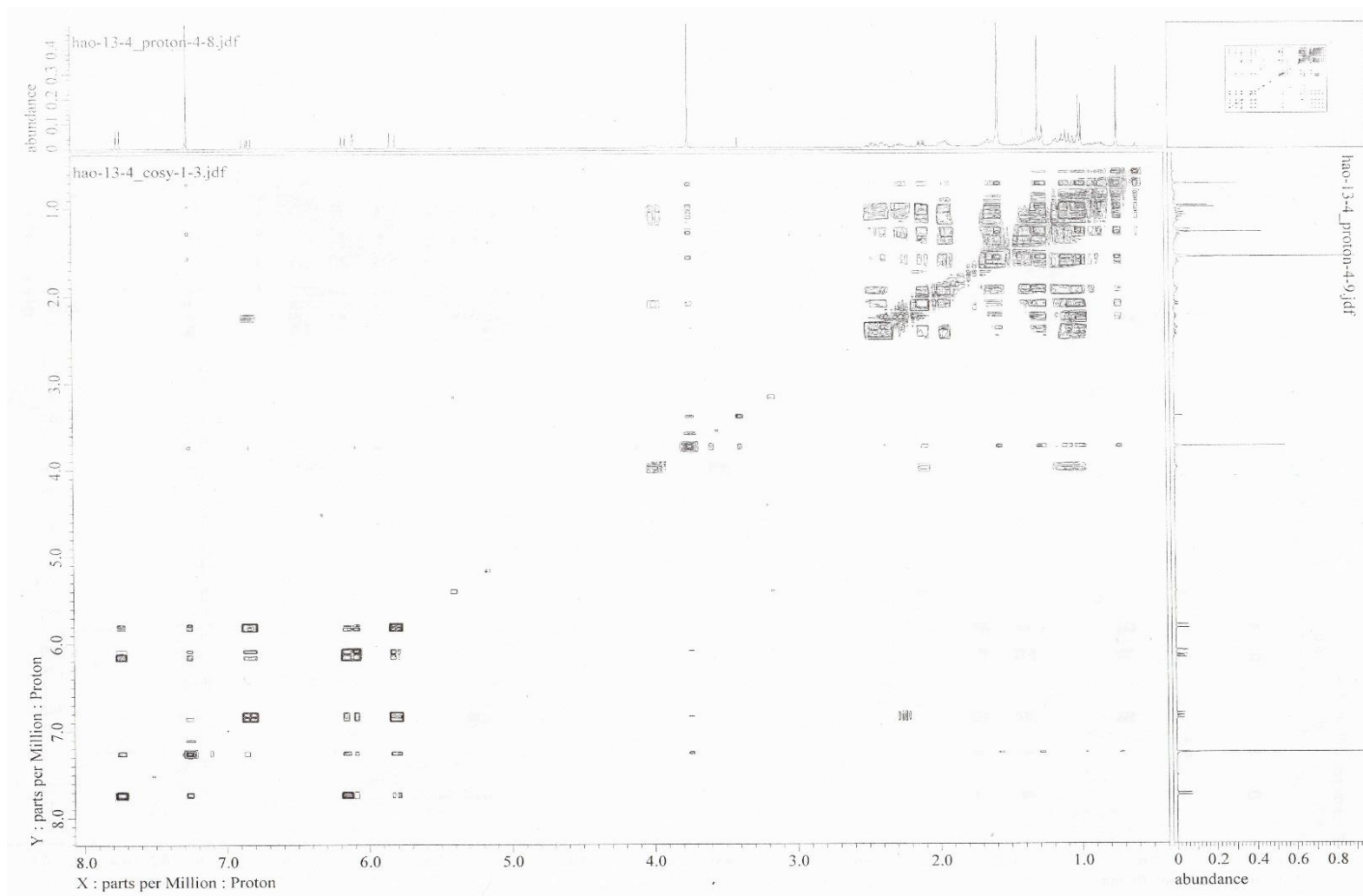
S16. DEPT spectrum (100 MHz) of compound **2** in CDCl<sub>3</sub>



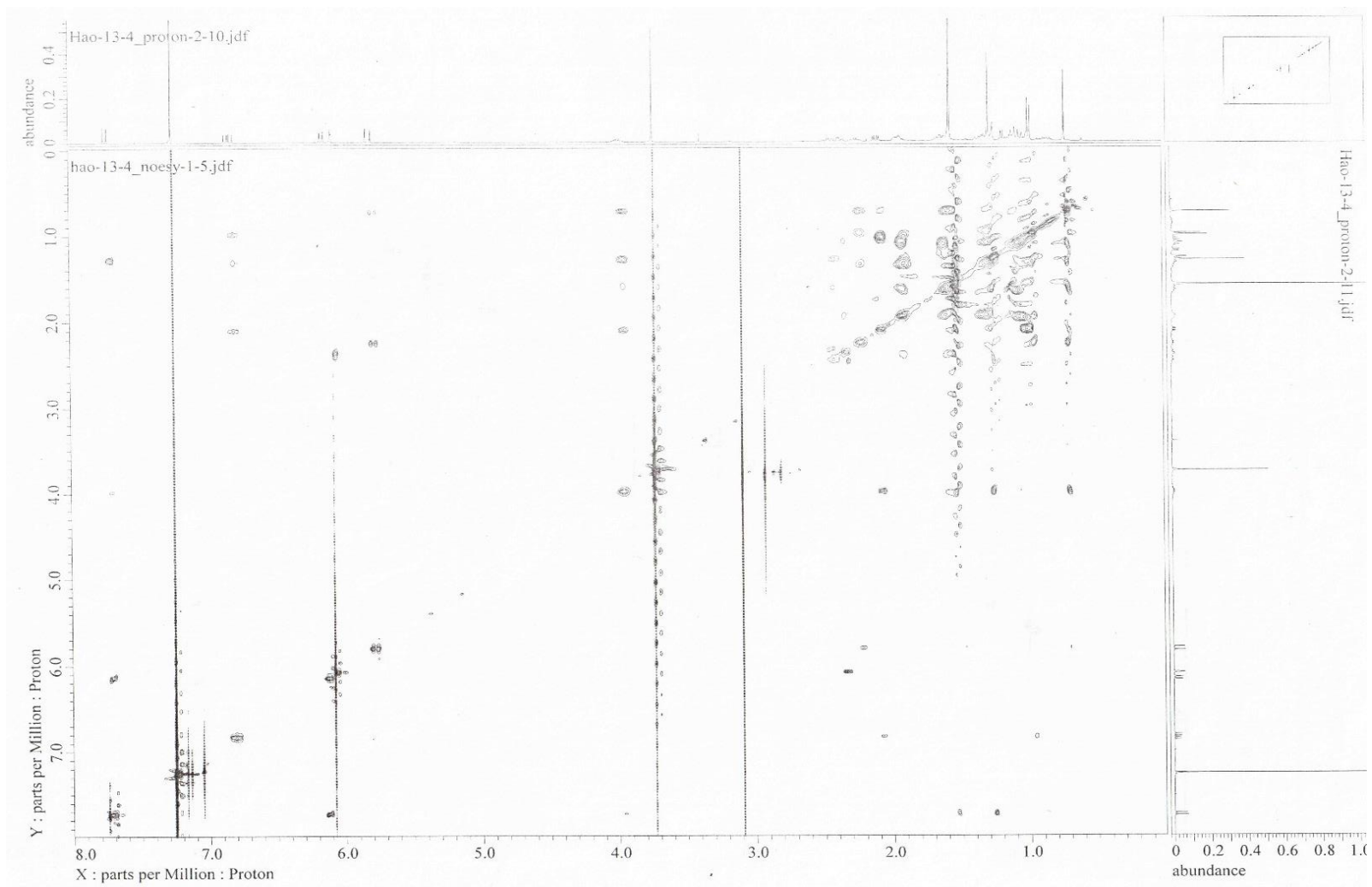
S17. HSQC spectrum of compound **2** in  $\text{CDCl}_3$



S18. HMBC spectrum of compound **2** in CDCl<sub>3</sub>



S19.  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of compound **2** in  $\text{CDCl}_3$



S20. NOESY spectrum of compound **2** in CDCl<sub>3</sub>



S21. The raw Western blotting data (pictures) of steroids 1-5