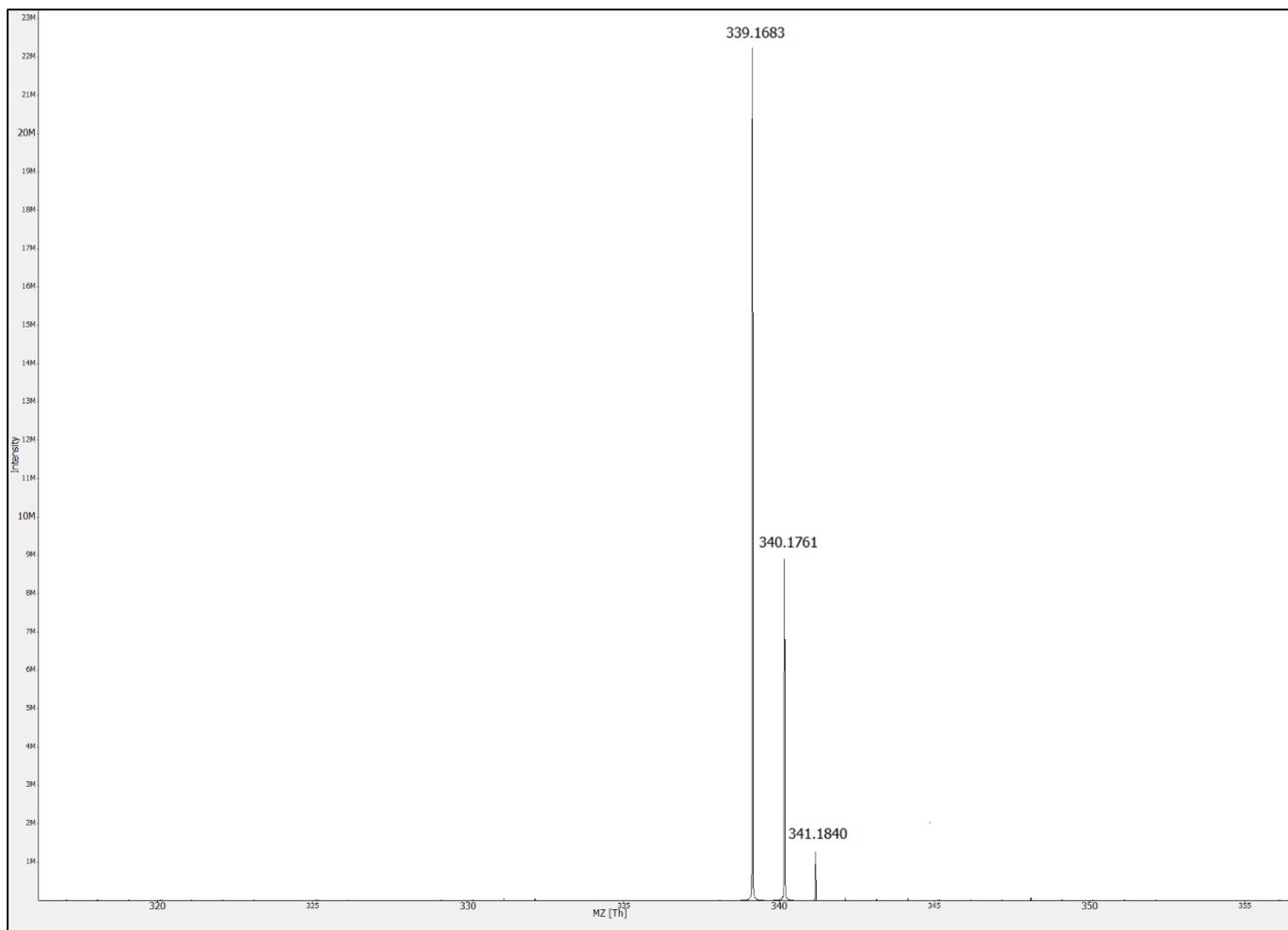
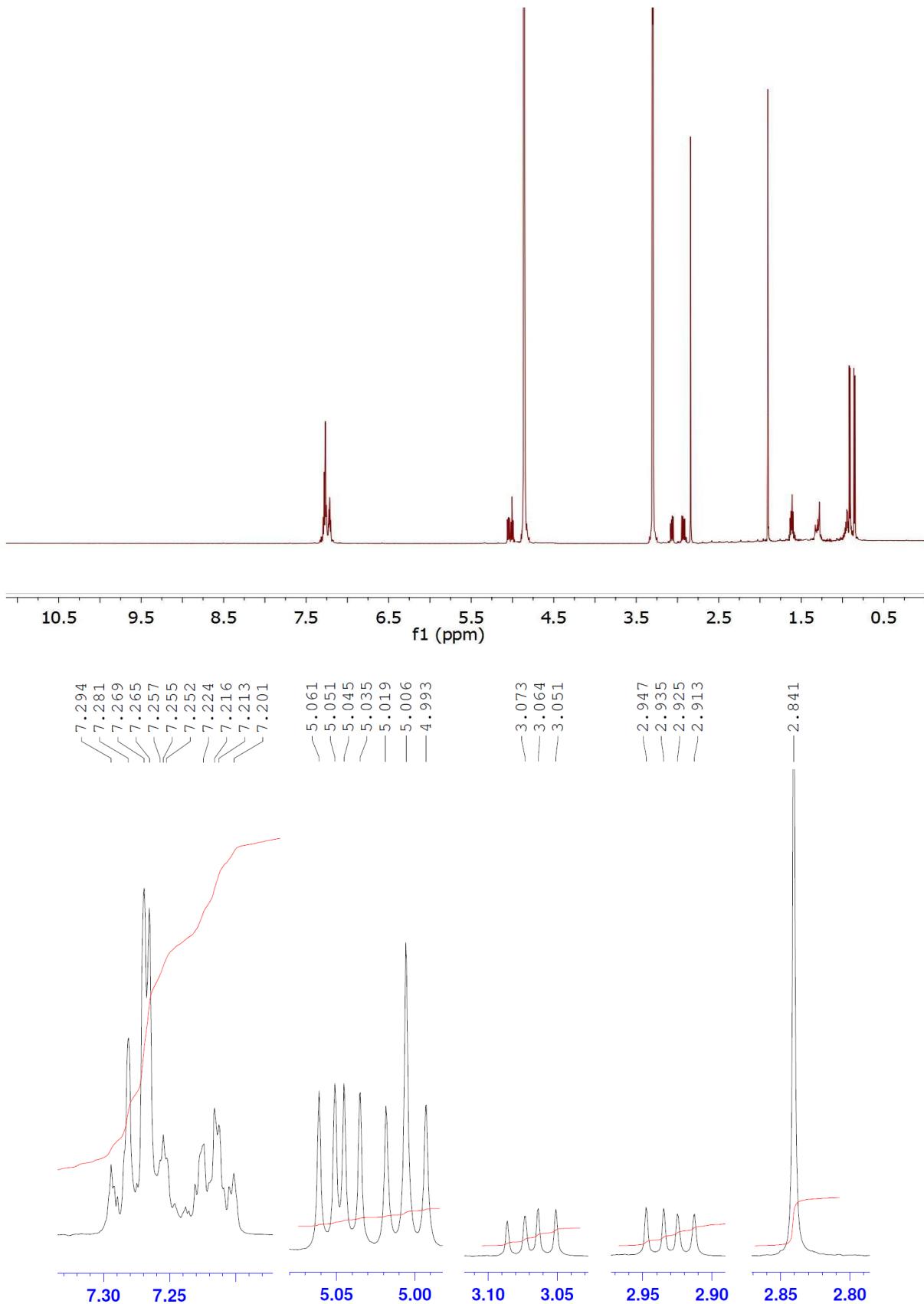


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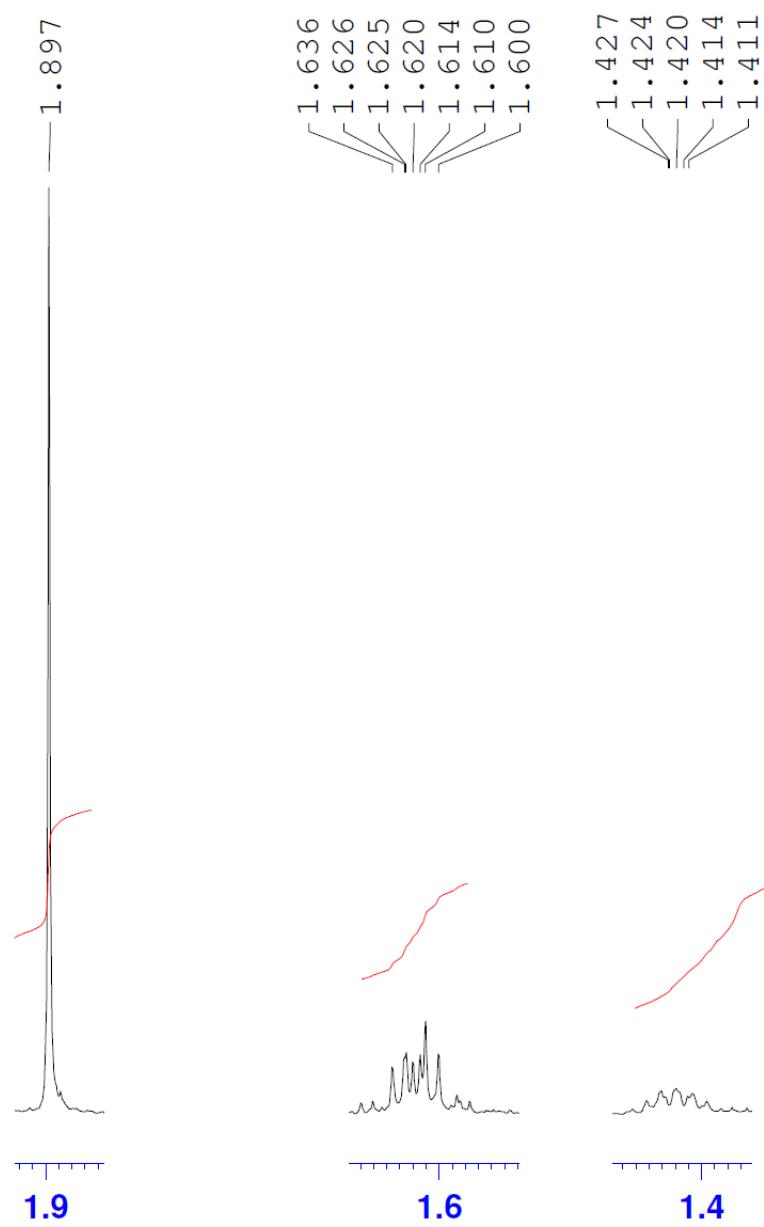
**Figure S1.** HRESIMS spectrum of asperopiperazine A (**1**).



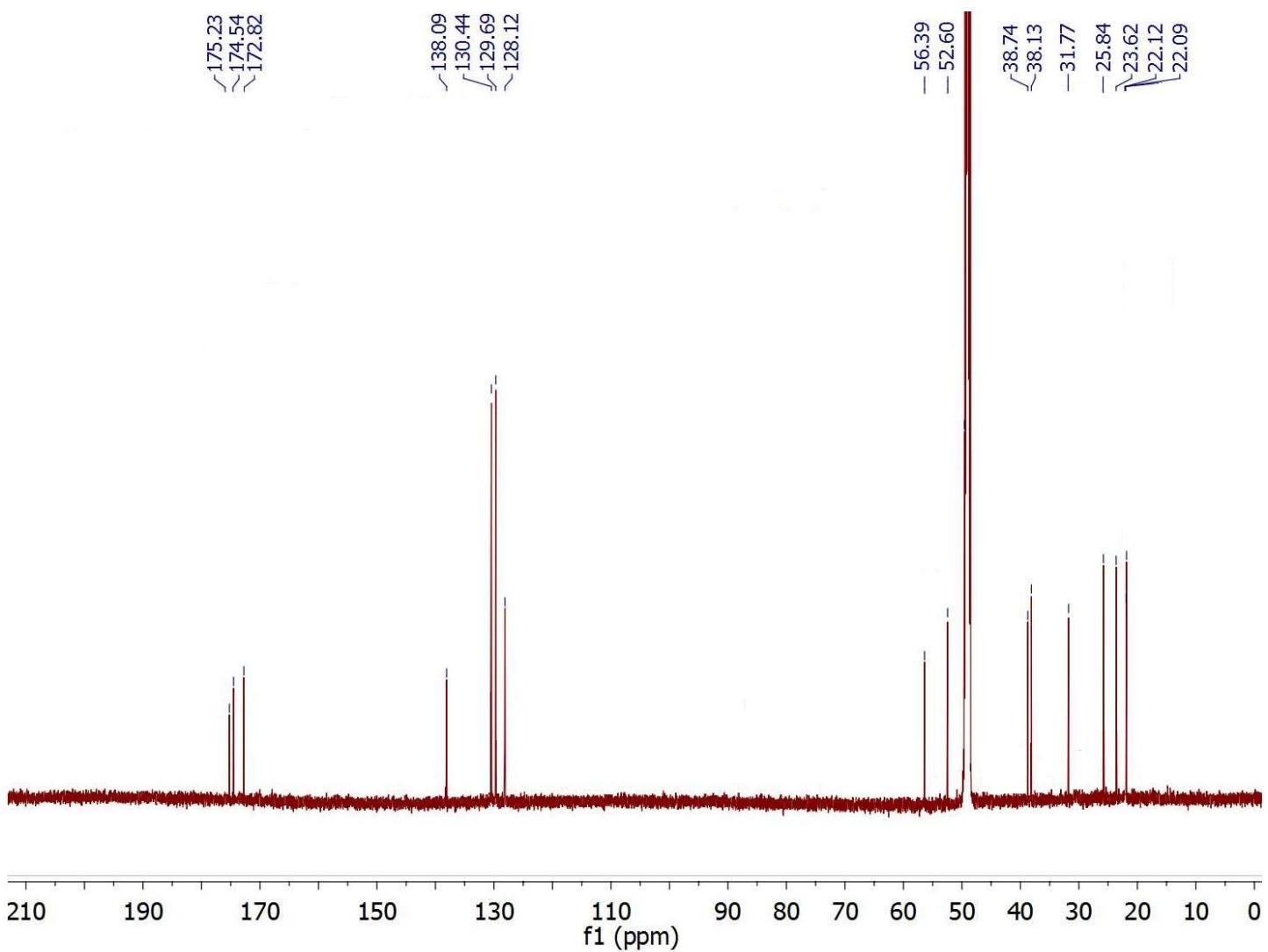
**Figure S2.** 600 MHz  $^1\text{H}$  NMR spectrum of asperopiperazine A (**1**) ( $\text{CD}_3\text{OD}$ ).



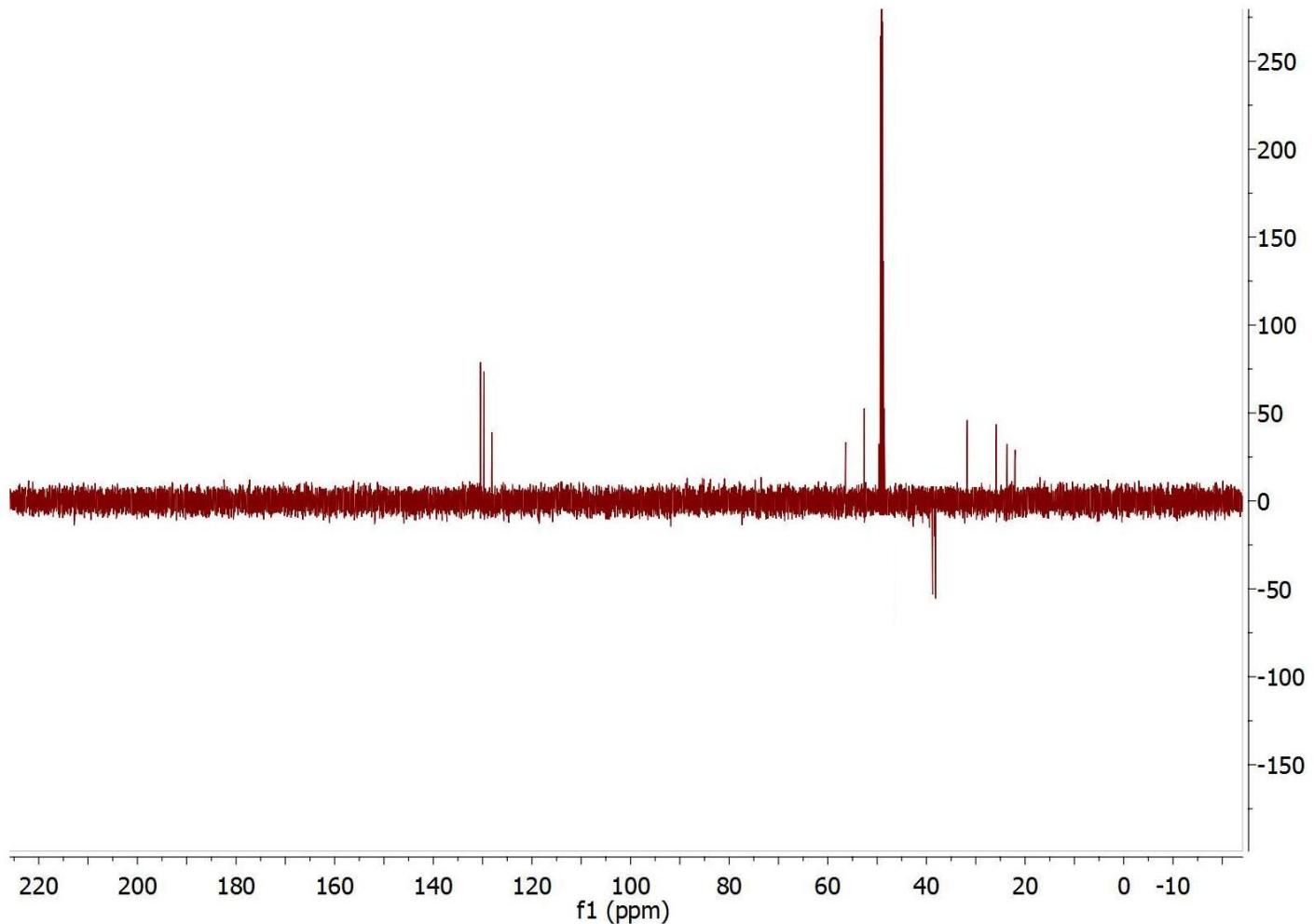
**Figure S2.** 600 MHz  $^1\text{H}$  NMR spectrum of asperopiperazine A (**1**) ( $\text{CD}_3\text{OD}$ ) (Cont.).



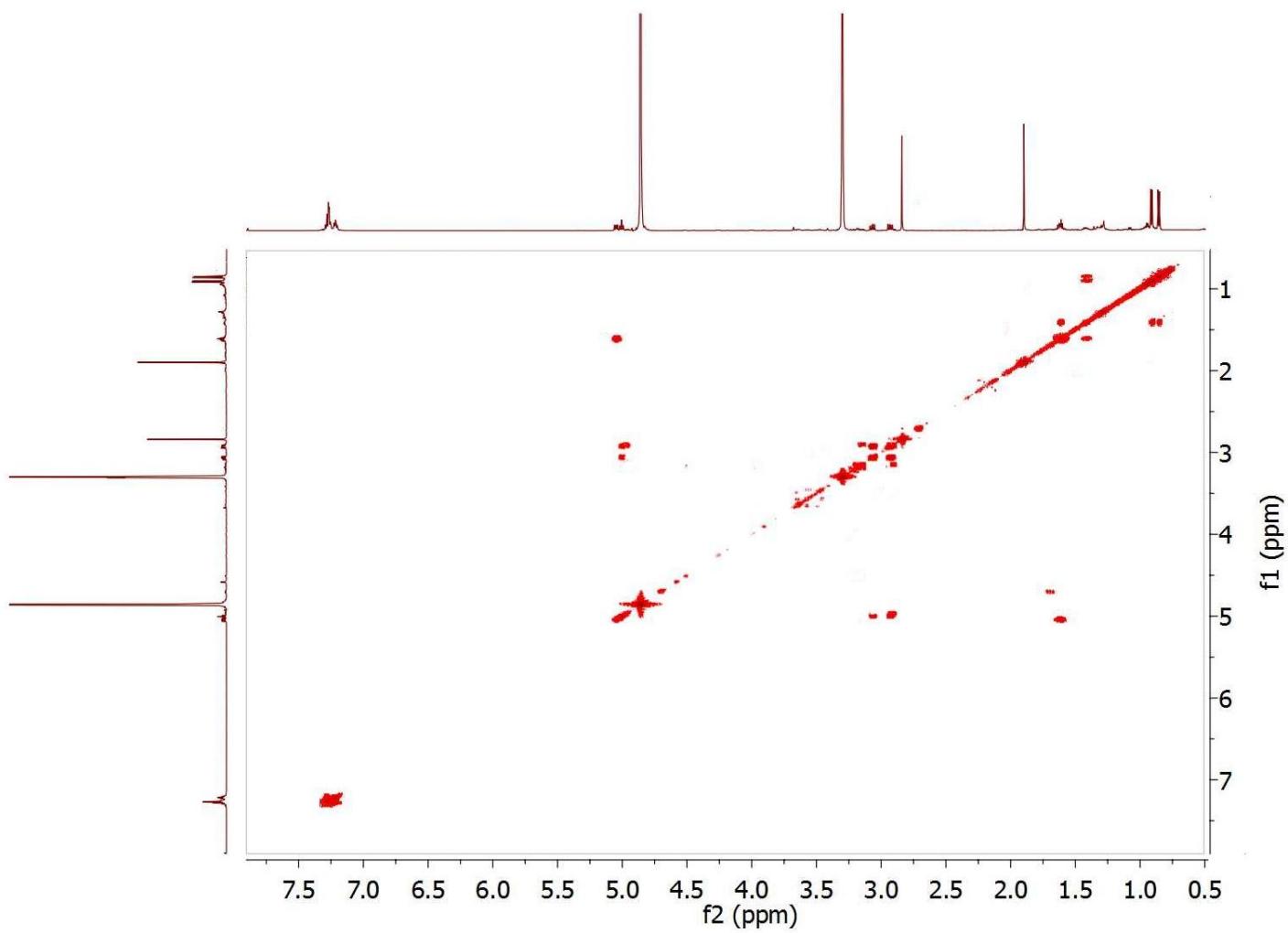
**Figure S3.** 150 MHz  $^{13}\text{C}$  NMR spectrum of asperopiperazine A (**1**) ( $\text{CD}_3\text{OD}$ ).



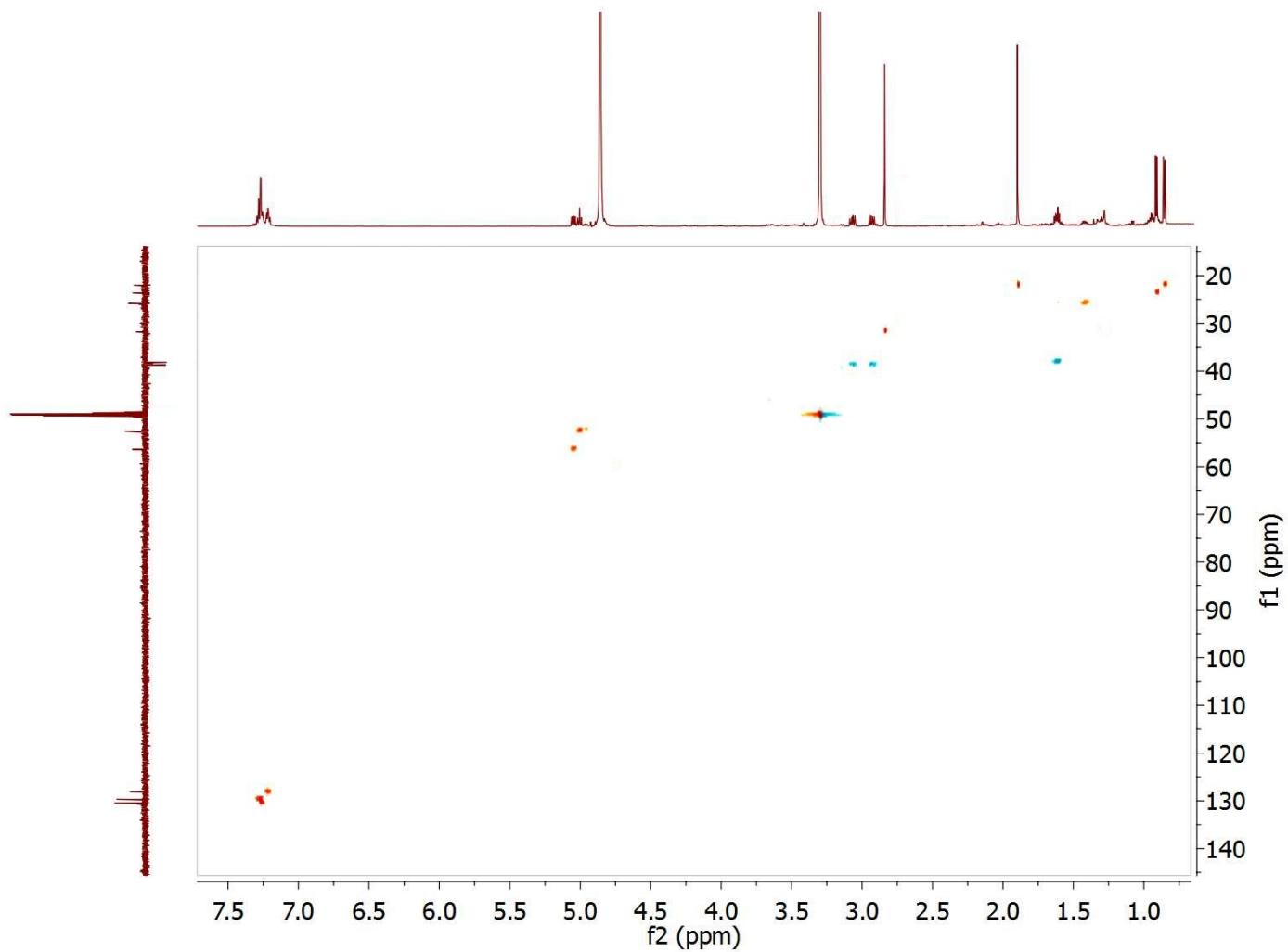
**Figure S4.** DEPT spectrum of asperopiperazine A (**1**) ( $\text{CD}_3\text{OD}$ ).



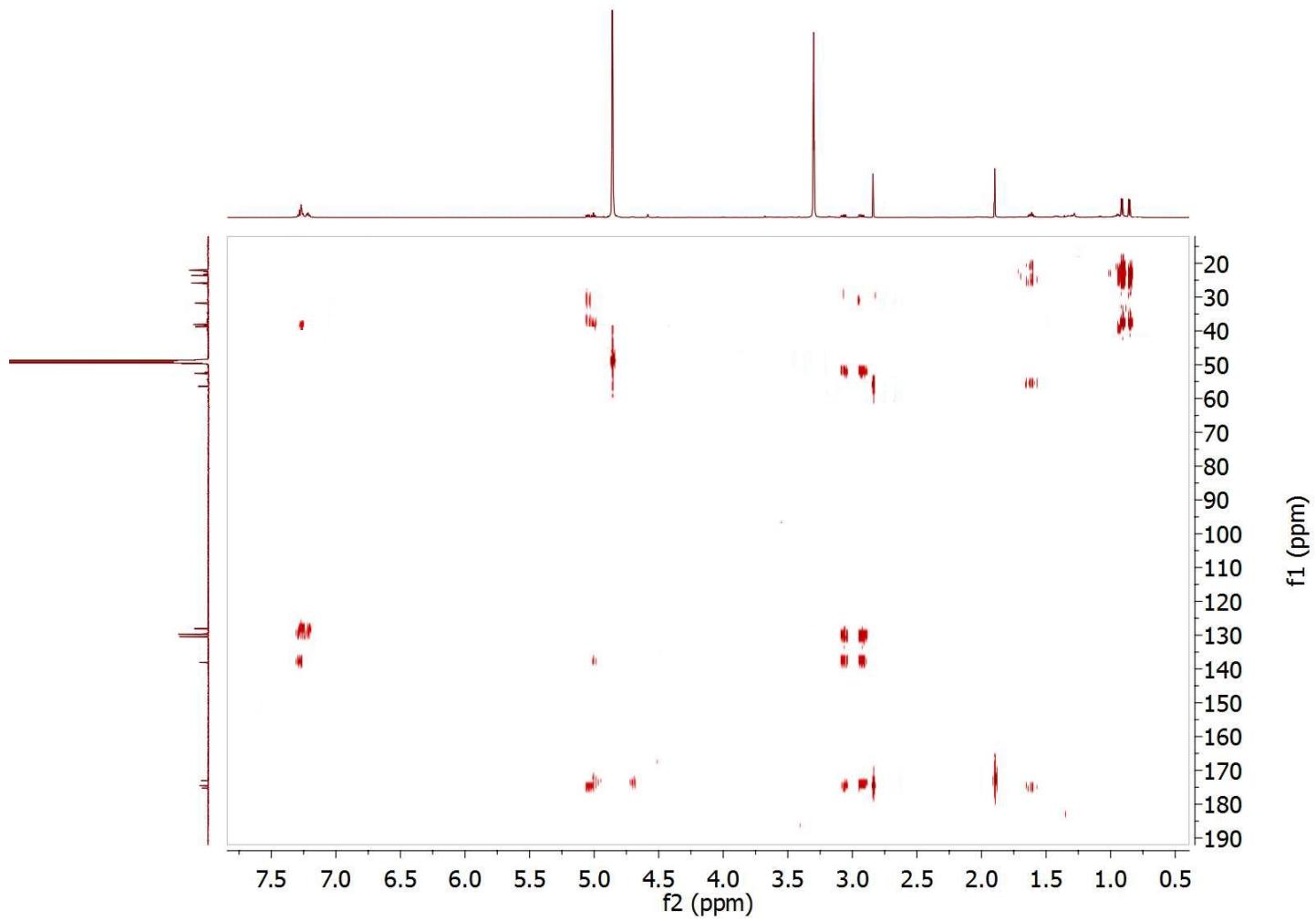
**Figure S5.** COSY spectrum of asperopiperazine A (**1**) ( $\text{CD}_3\text{OD}$ ).



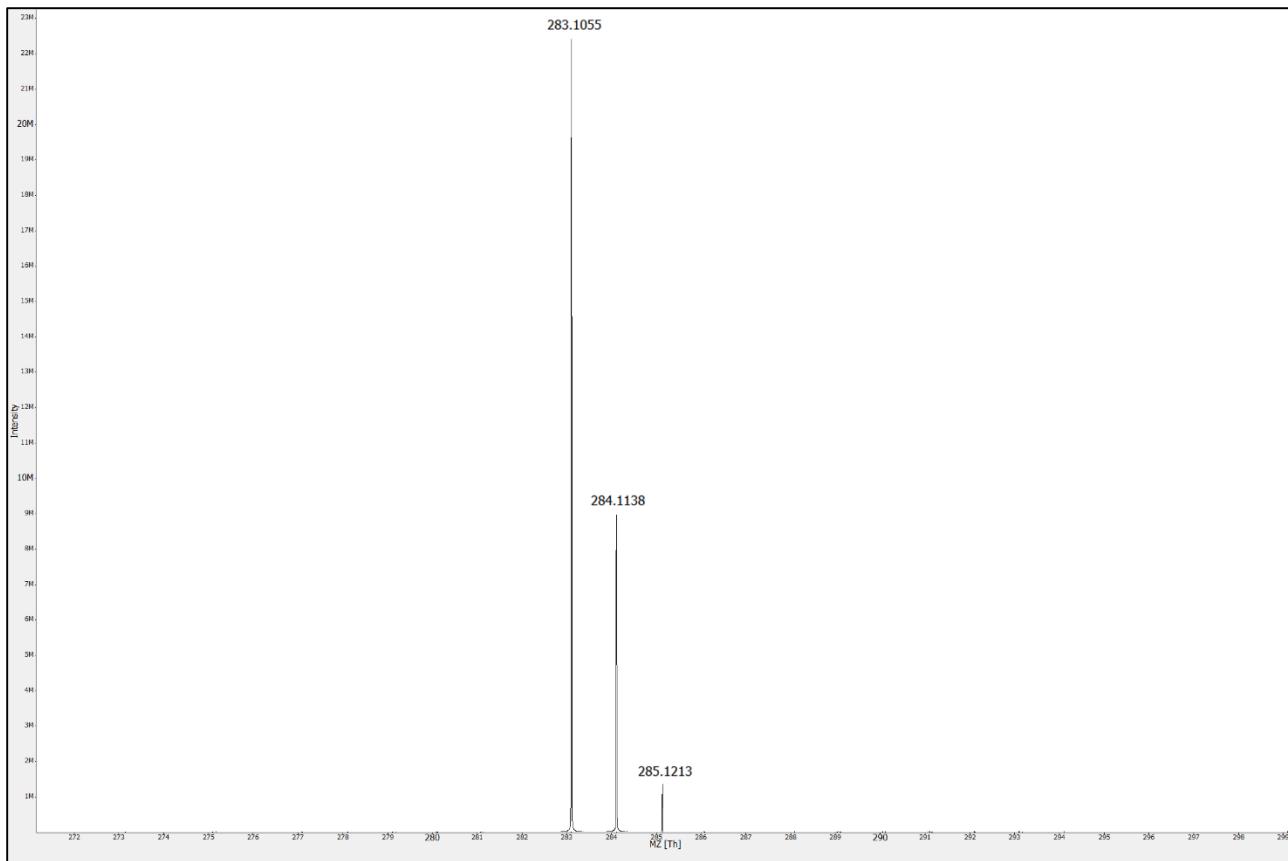
**Figure S6.** HSQC spectrum of asperopiperazine A (**1**) ( $\text{CD}_3\text{OD}$ ).



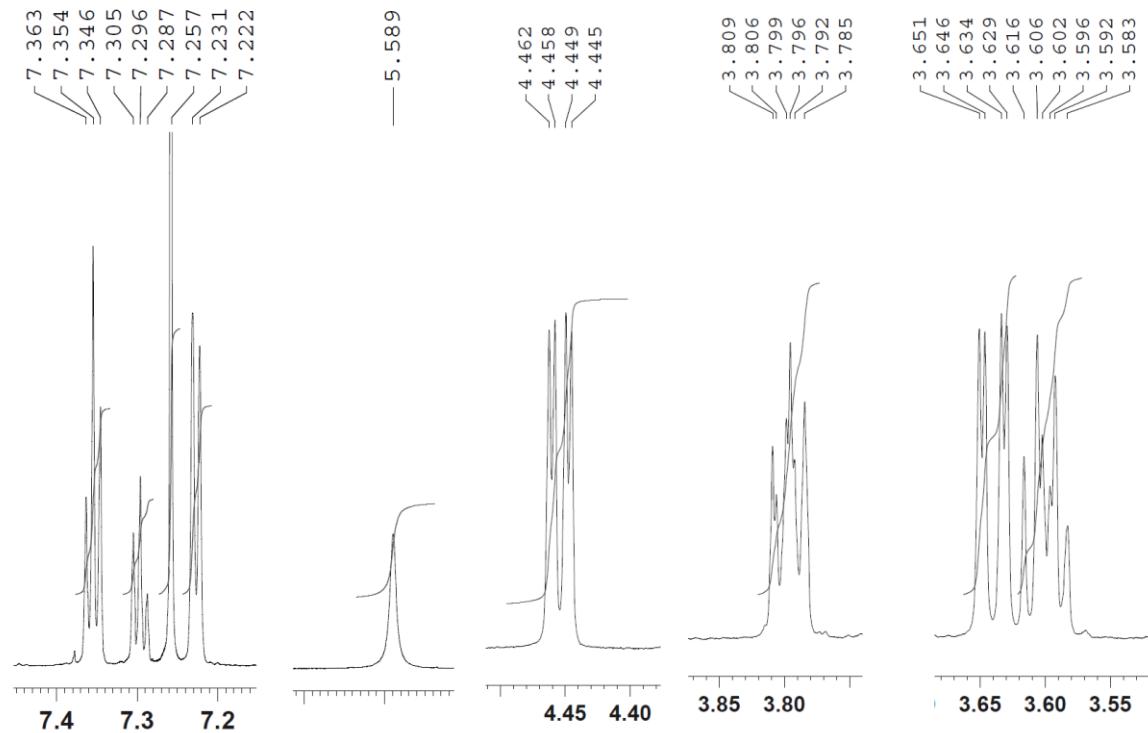
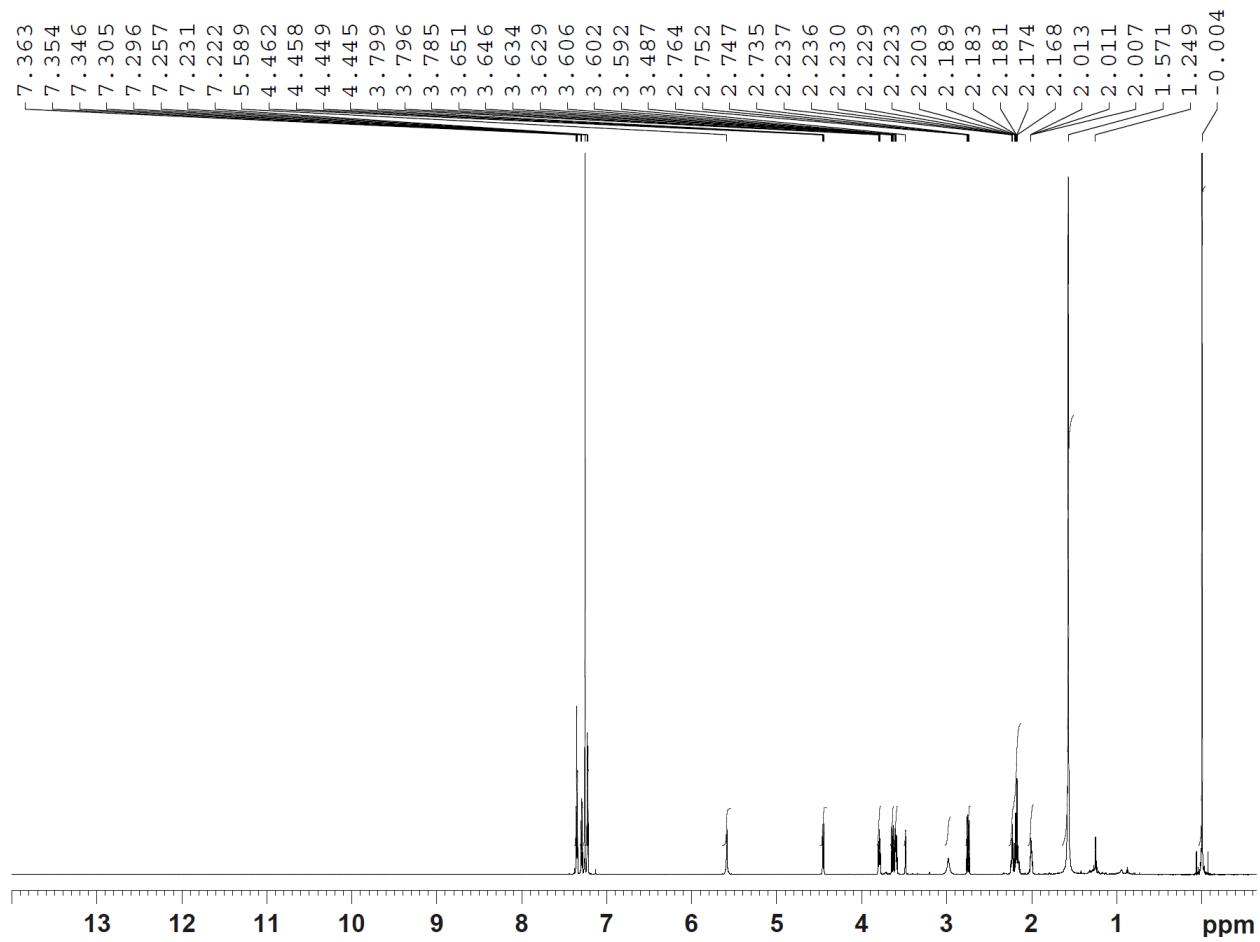
**Figure S7.** HMBC spectrum of asperopiperazine A (**1**) ( $\text{CD}_3\text{OD}$ ).



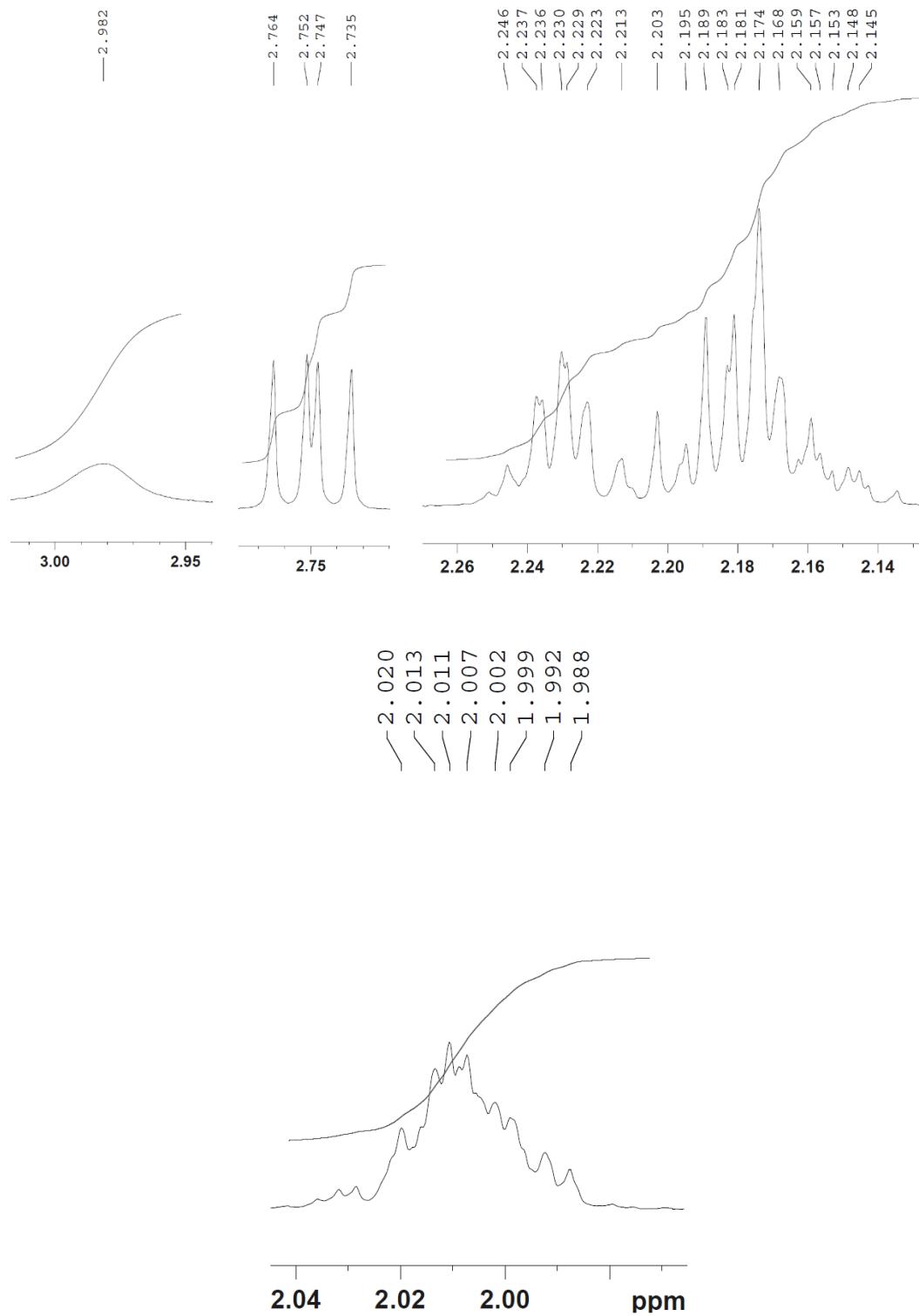
**Figure S8.** HRESIMS spectrum of asperopiperazine B (2).



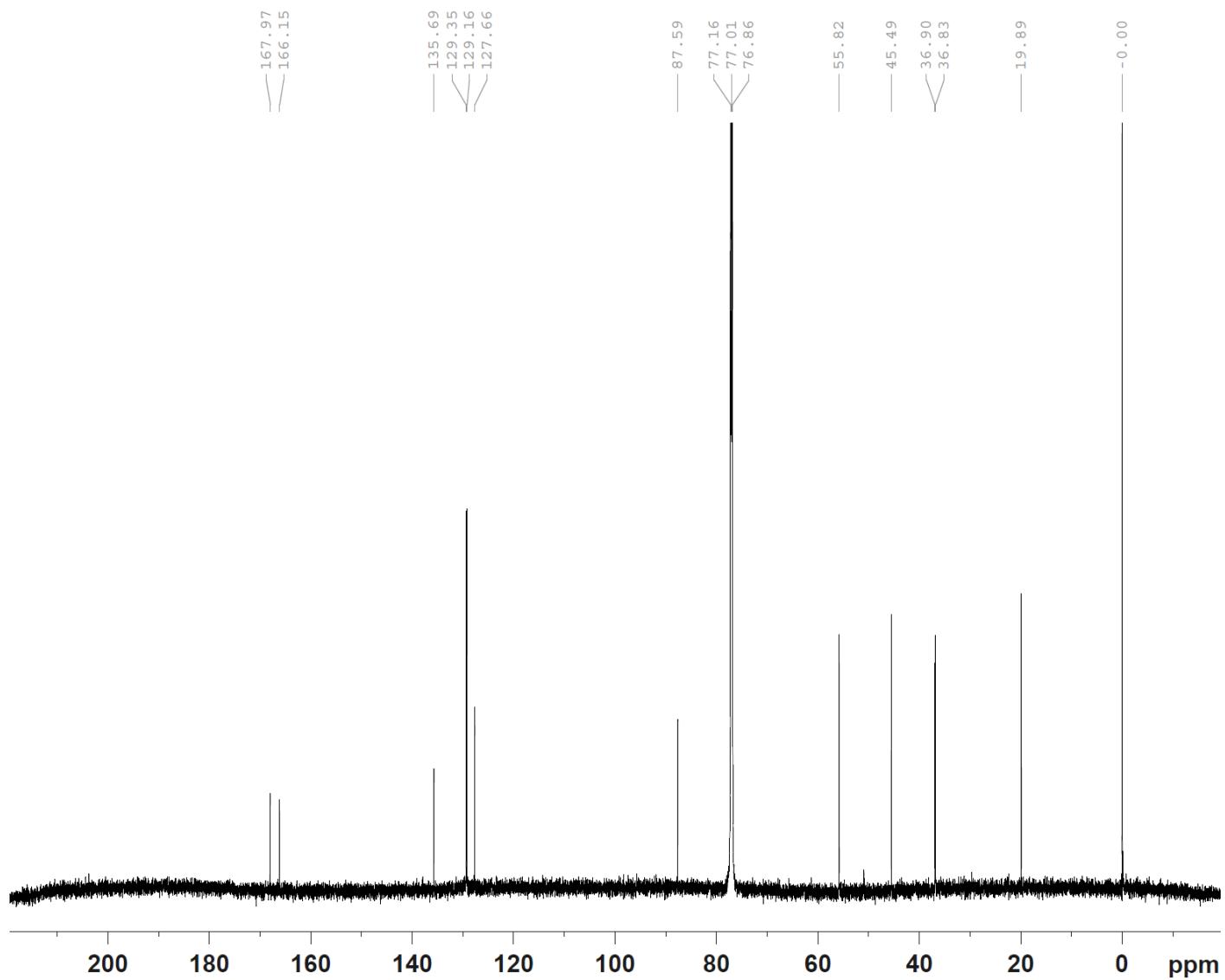
**Figure S9.** 850 MHz  $^1\text{H}$  NMR spectrum of asperopiperazine B (**2**) ( $\text{CDCl}_3$ ).



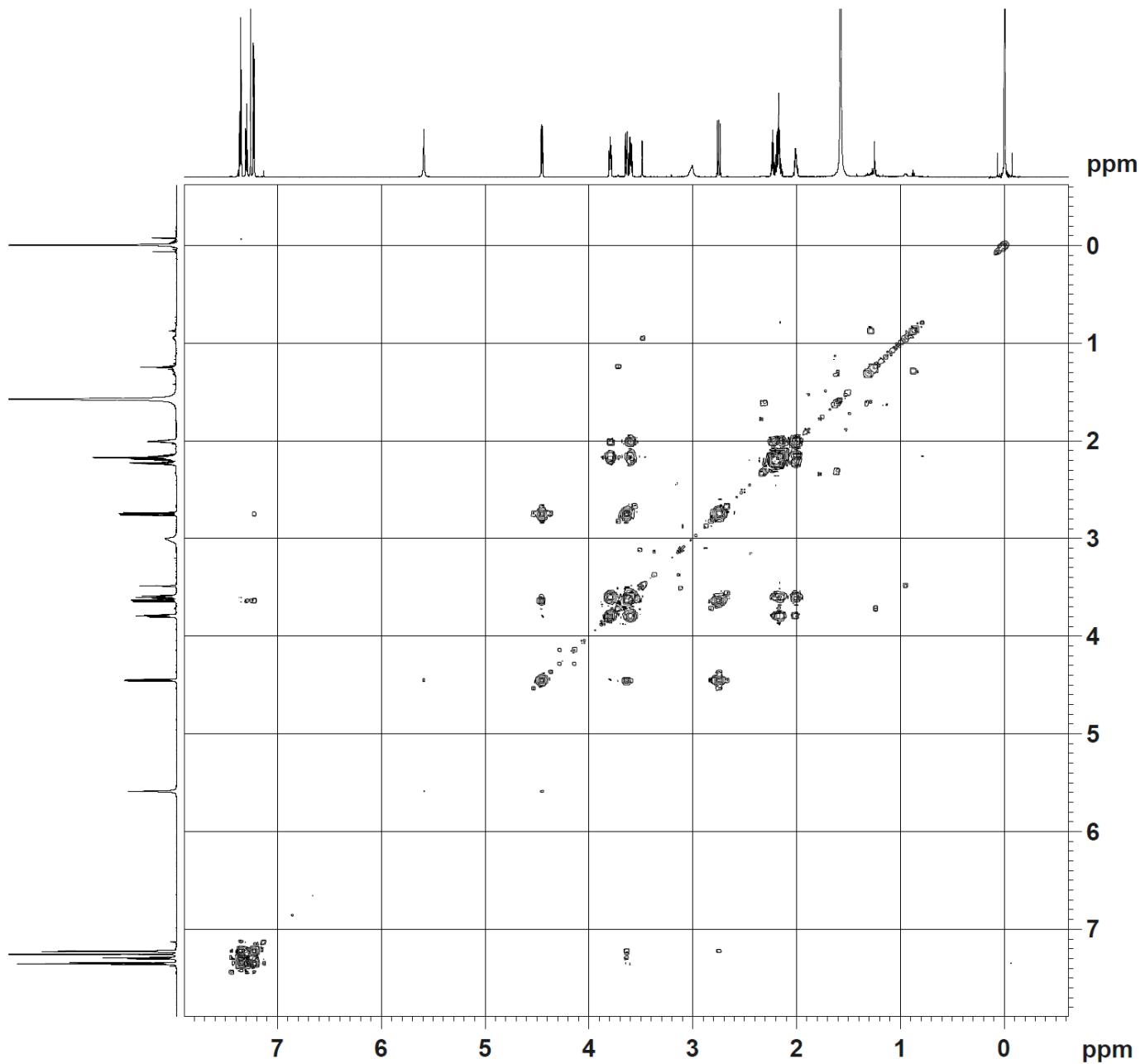
**Figure S9.** 850 MHz  $^1\text{H}$  NMR spectrum of asperopiperazine B (**2**) ( $\text{CDCl}_3$ ) (Cont.).



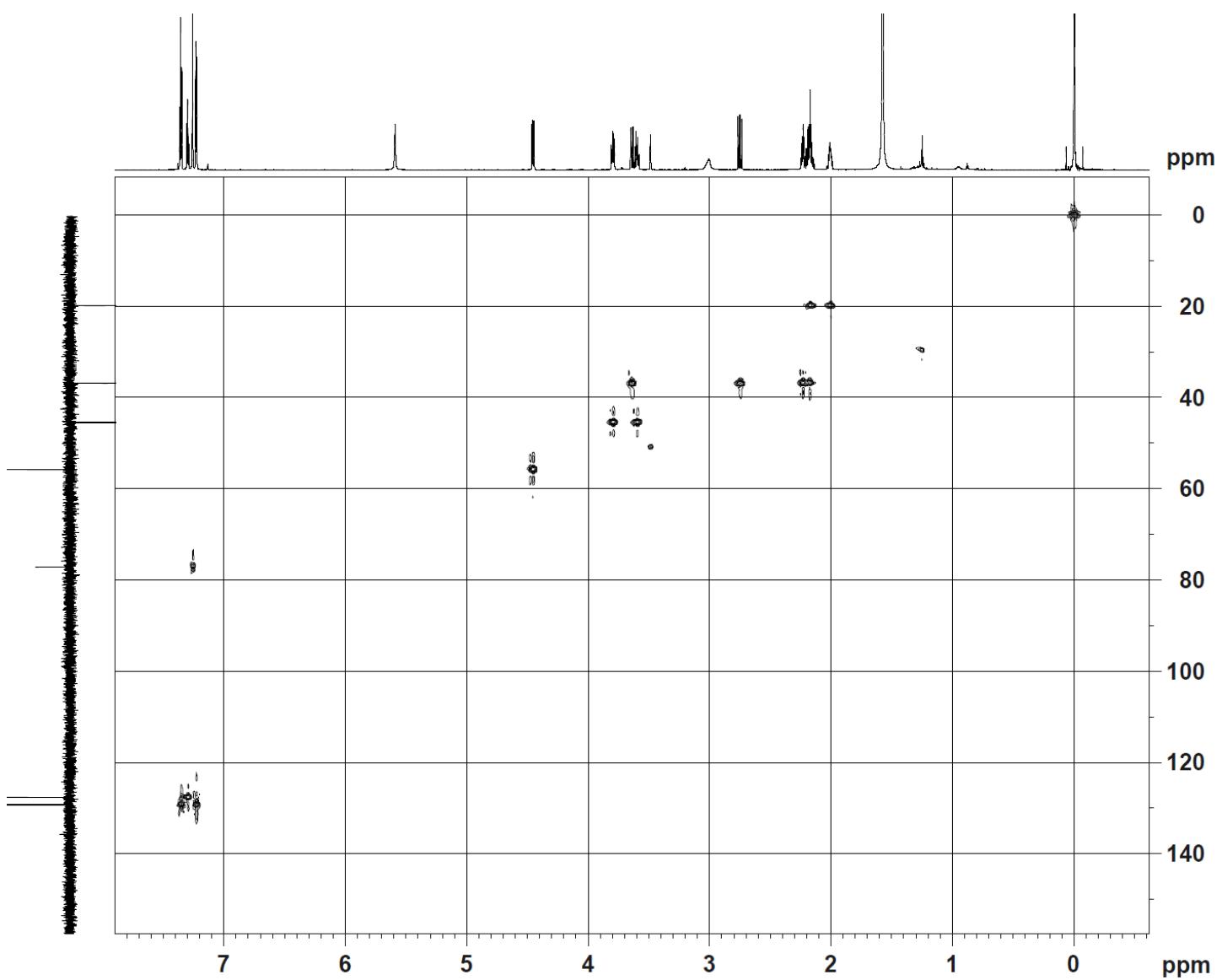
**Figure S10.** 213 MHz  $^{13}\text{C}$  NMR spectrum of asperopiperazine B (**2**) ( $\text{CDCl}_3$ ).



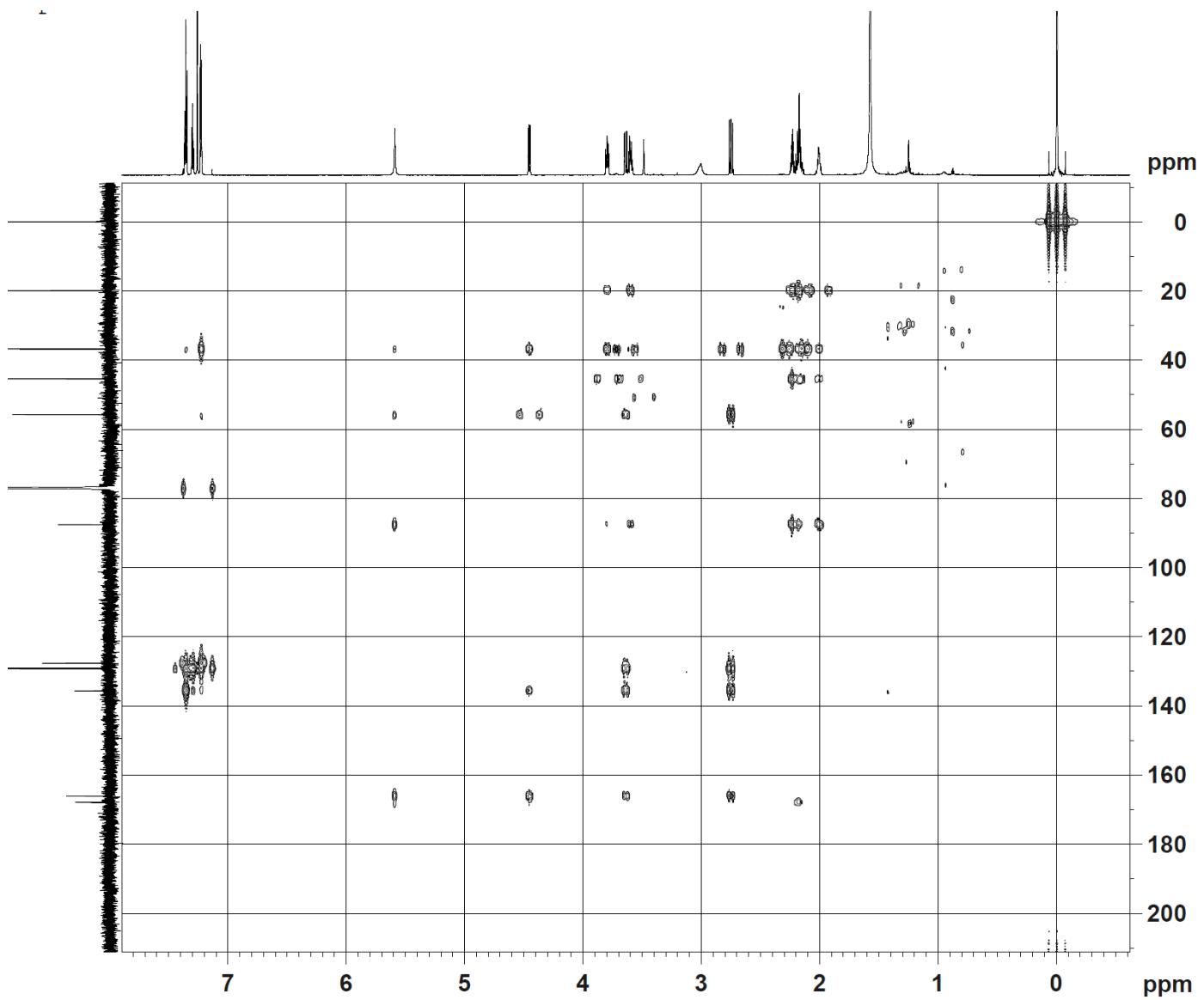
**Figure S11.** COSY spectrum of asperopiperazine B (**2**) ( $\text{CDCl}_3$ ).



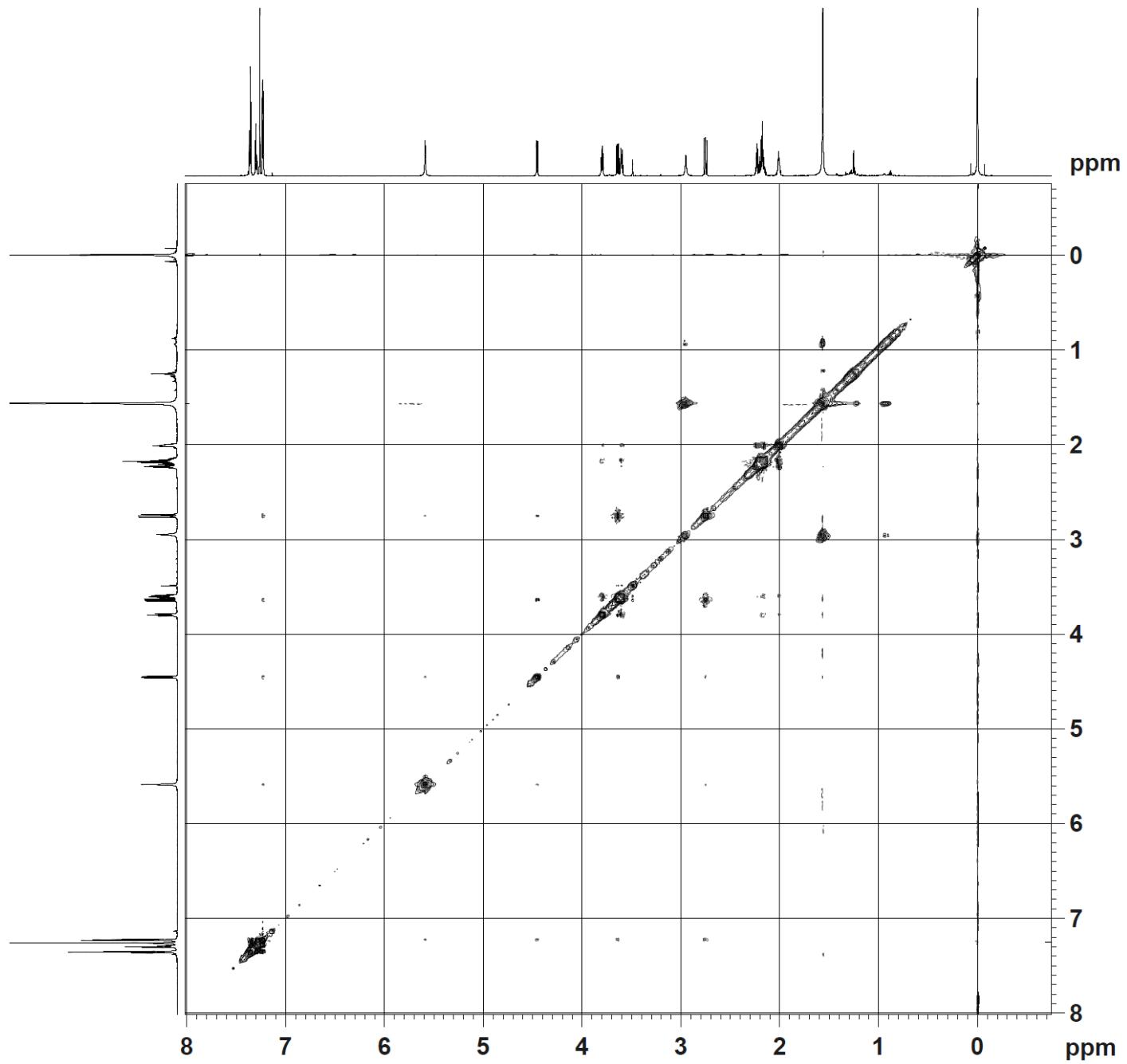
**Figure S12.** HSQC spectrum of asperopiperazine B (**2**) ( $\text{CDCl}_3$ ).



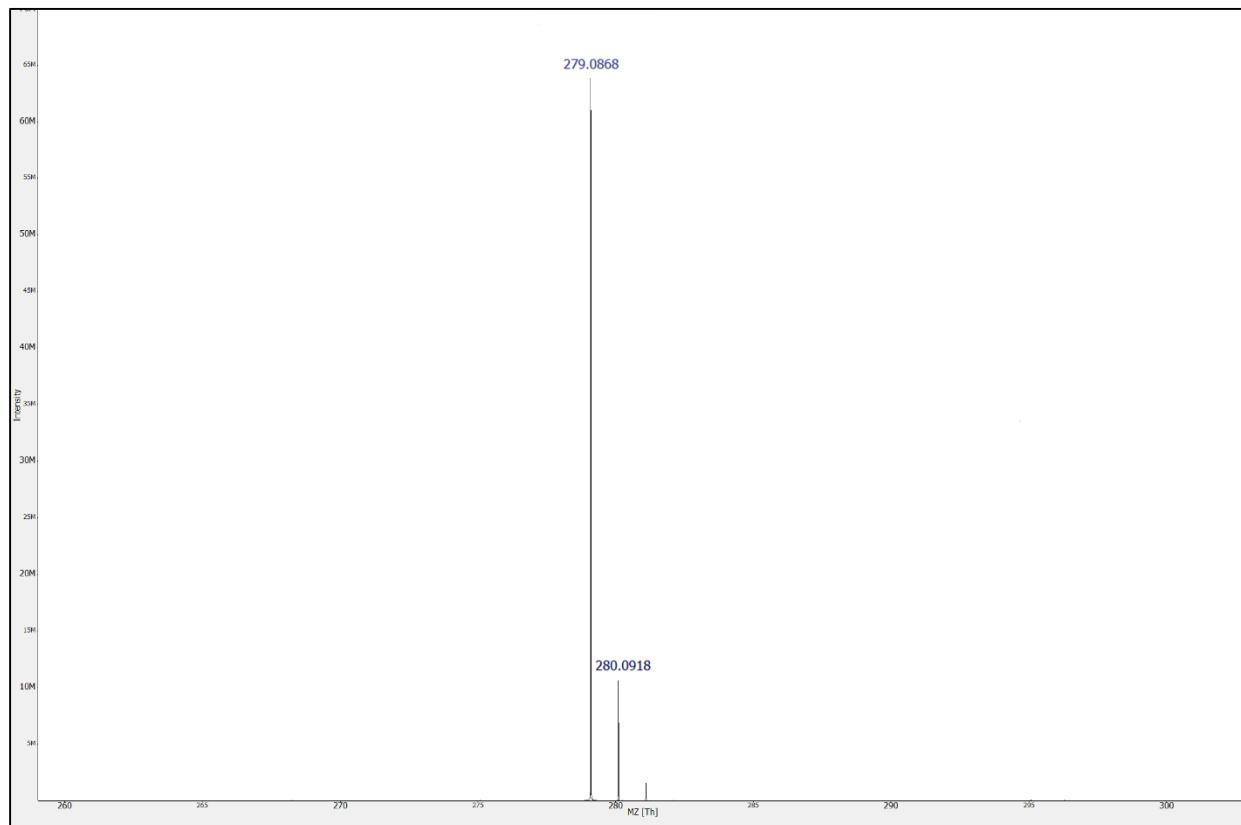
**Figure S13.** HMBC spectrum of asperopiperazine B (**2**) ( $\text{CDCl}_3$ ).



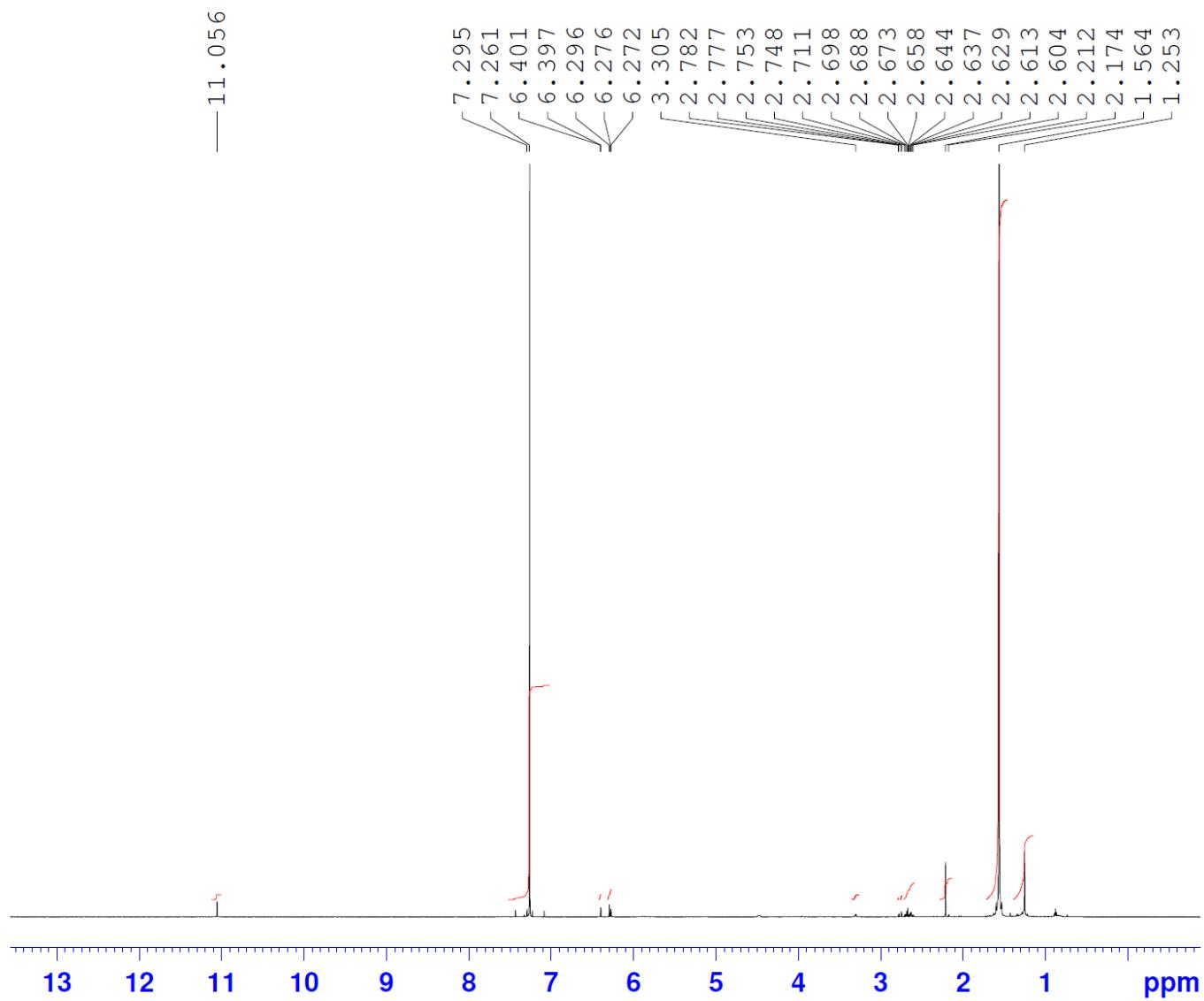
**Figure S14.** NOESY spectrum of asperopiperazine B (**2**) ( $\text{CDCl}_3$ ).



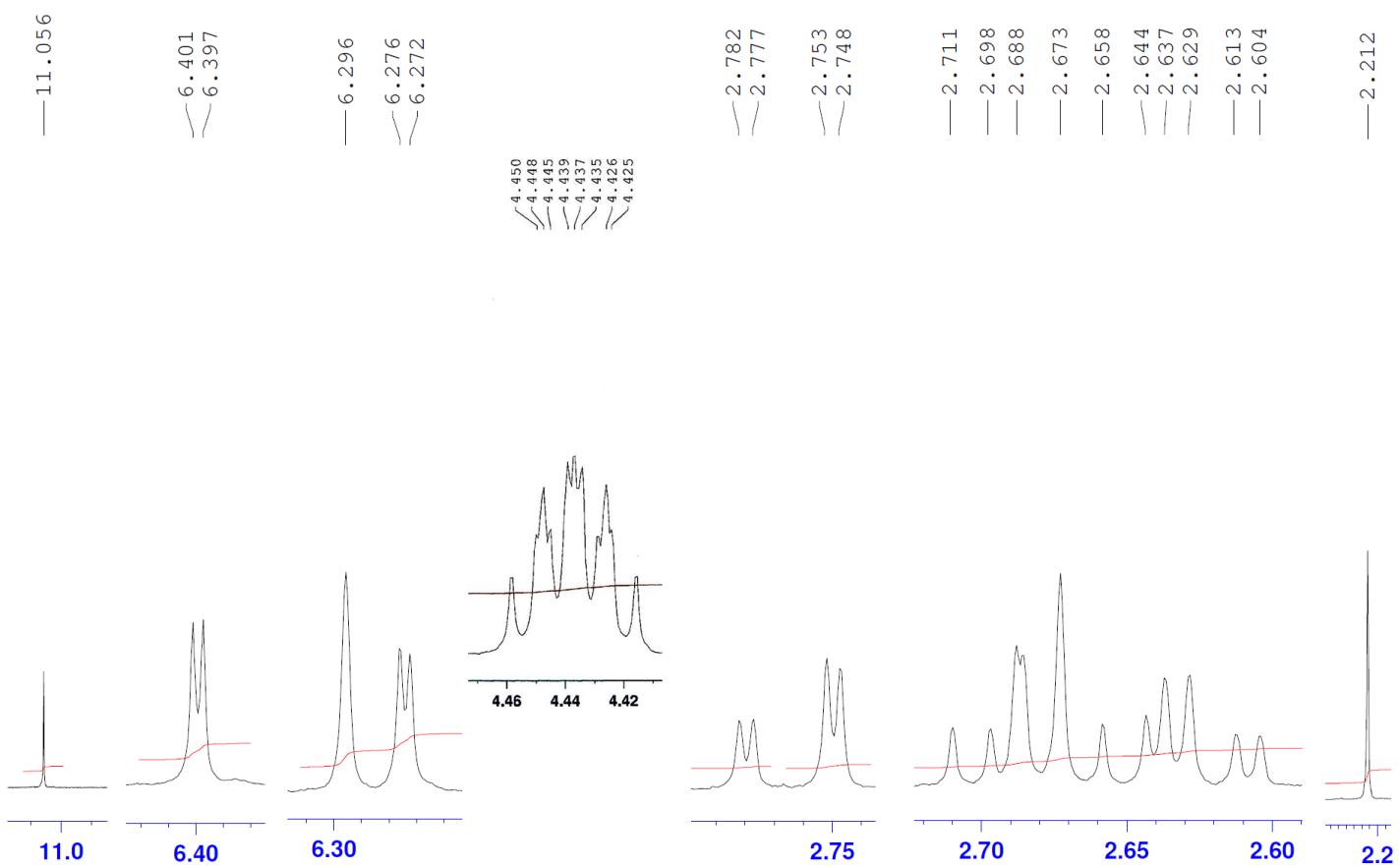
**Figure 15.** HRESIMS spectrum of (+)-citreoisocoumarin (**3**).



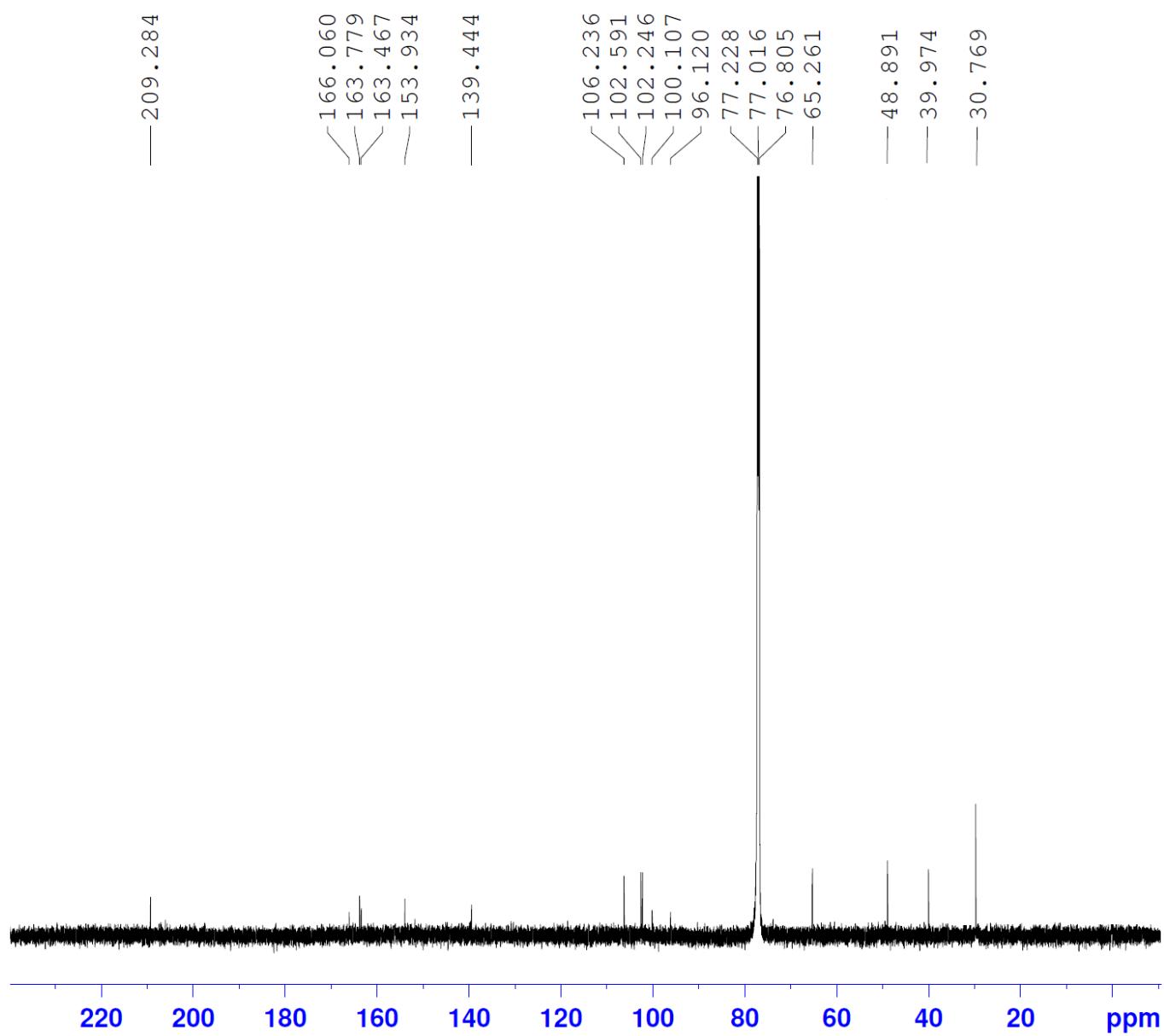
**Figure S16.** 600 MHz  $^1\text{H}$  NMR spectrum of (+)-citreoisocoumarin (**3**) ( $\text{CDCl}_3$ ).



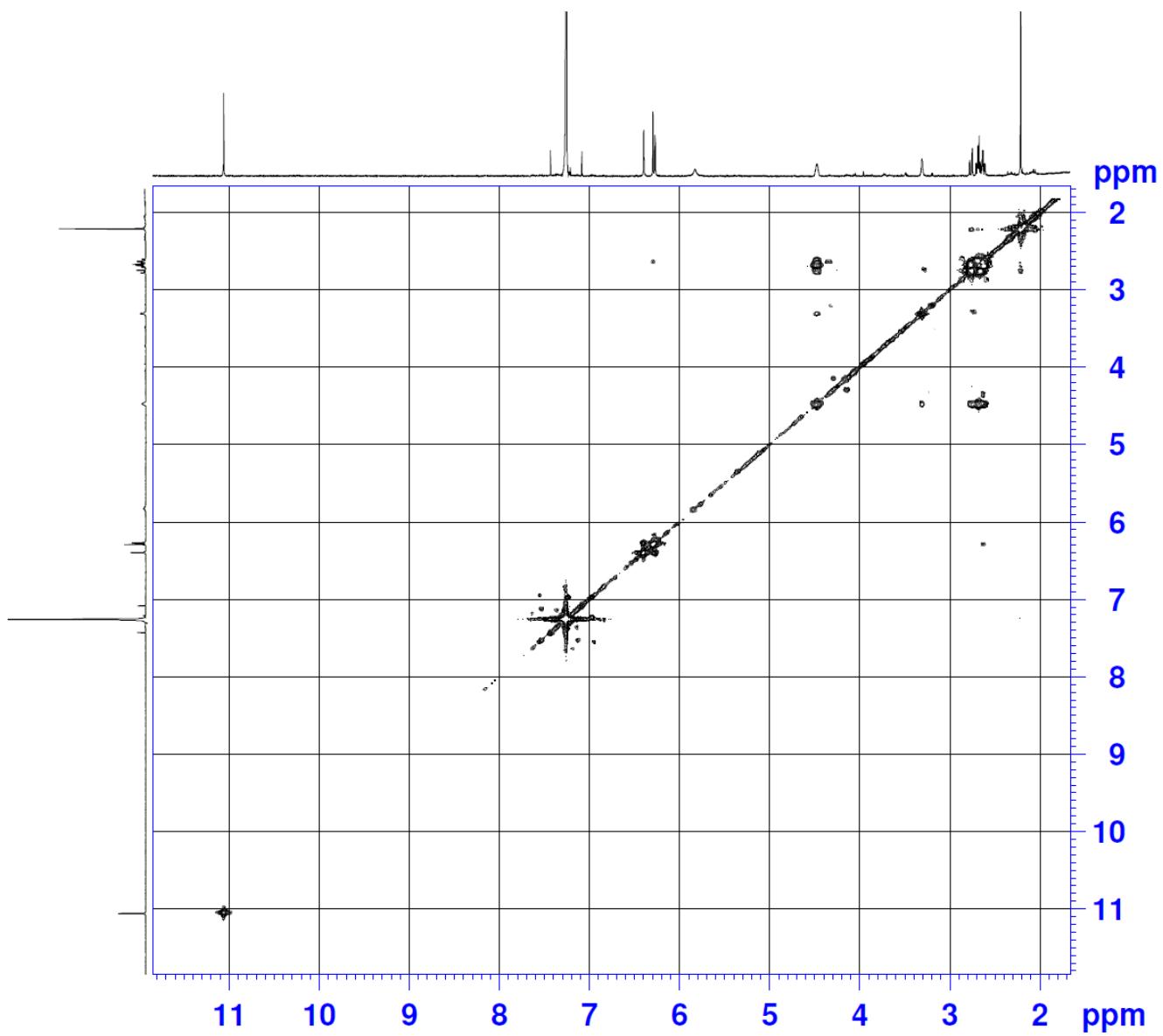
**Figure S16.** 600 MHz  $^1\text{H}$  NMR spectrum of (+)-citreoisocoumarin (**3**) ( $\text{CDCl}_3$ ) (Cont.).



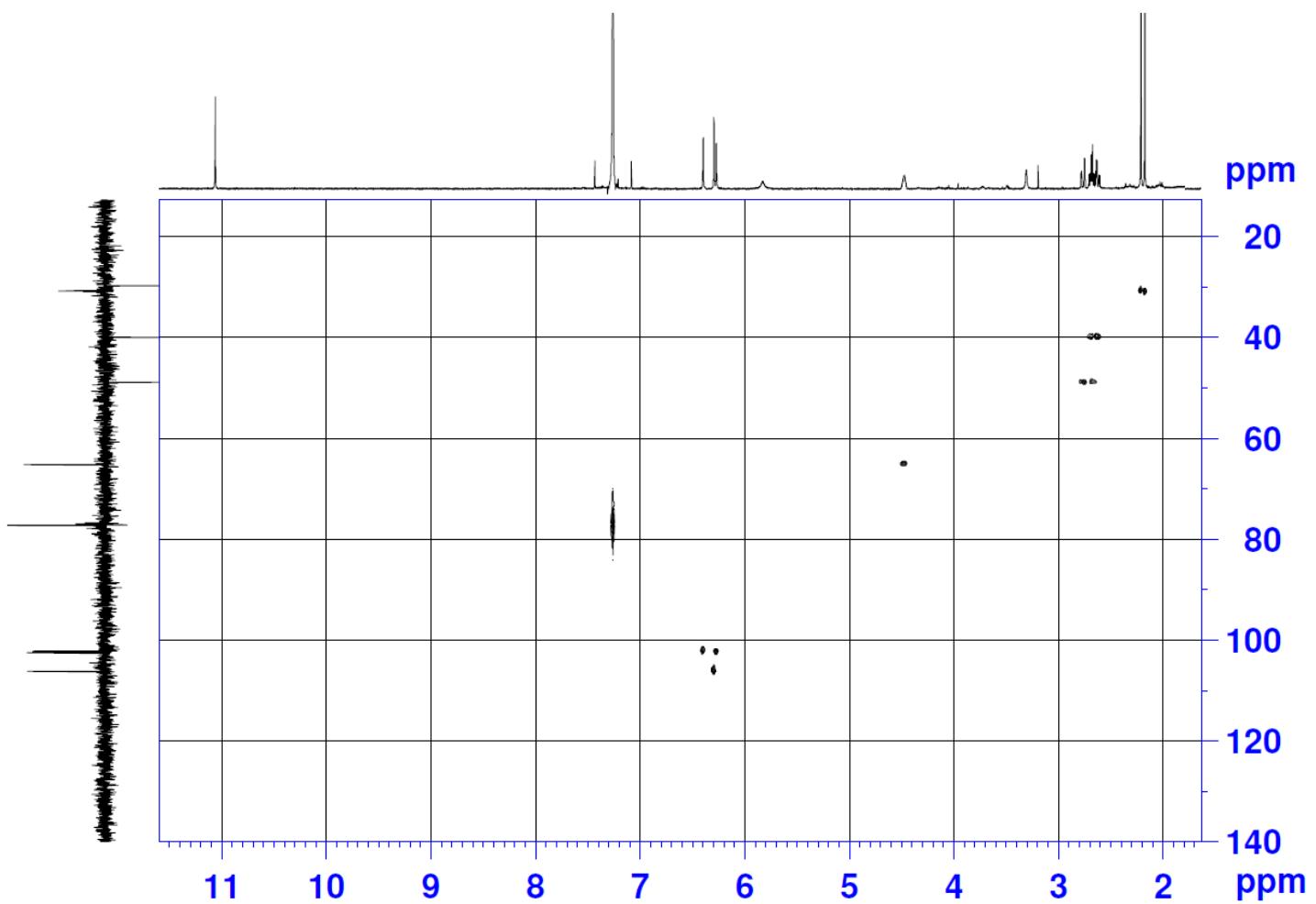
**Figure S17.** 150 MHz  $^{13}\text{C}$  NMR spectrum of (+)-citreoisocoumarin (**3**) ( $\text{CDCl}_3$ ).



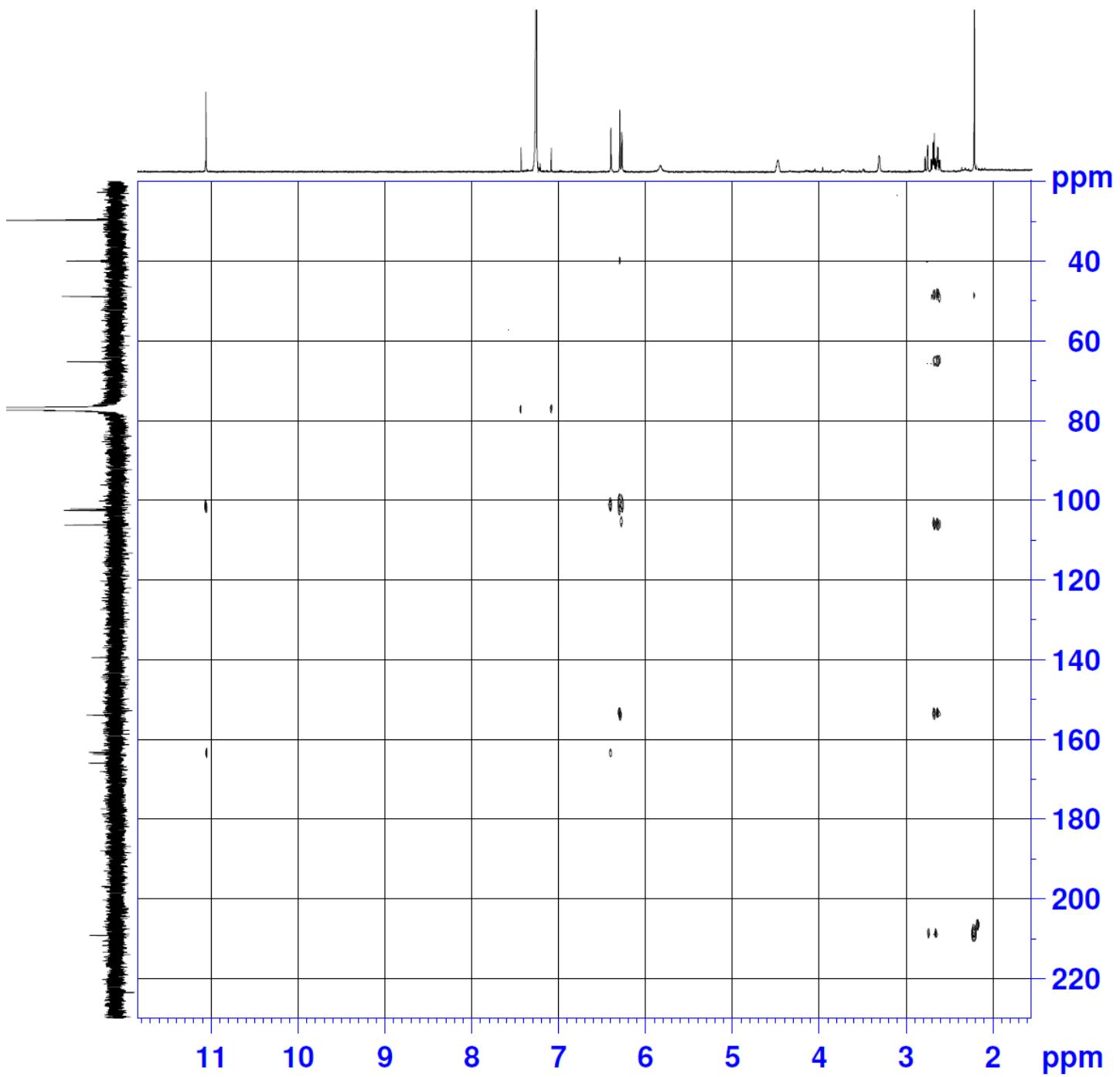
**Figure S18.** COSY spectrum of (+)-citreoisocoumarin (**3**) ( $\text{CDCl}_3$ ).



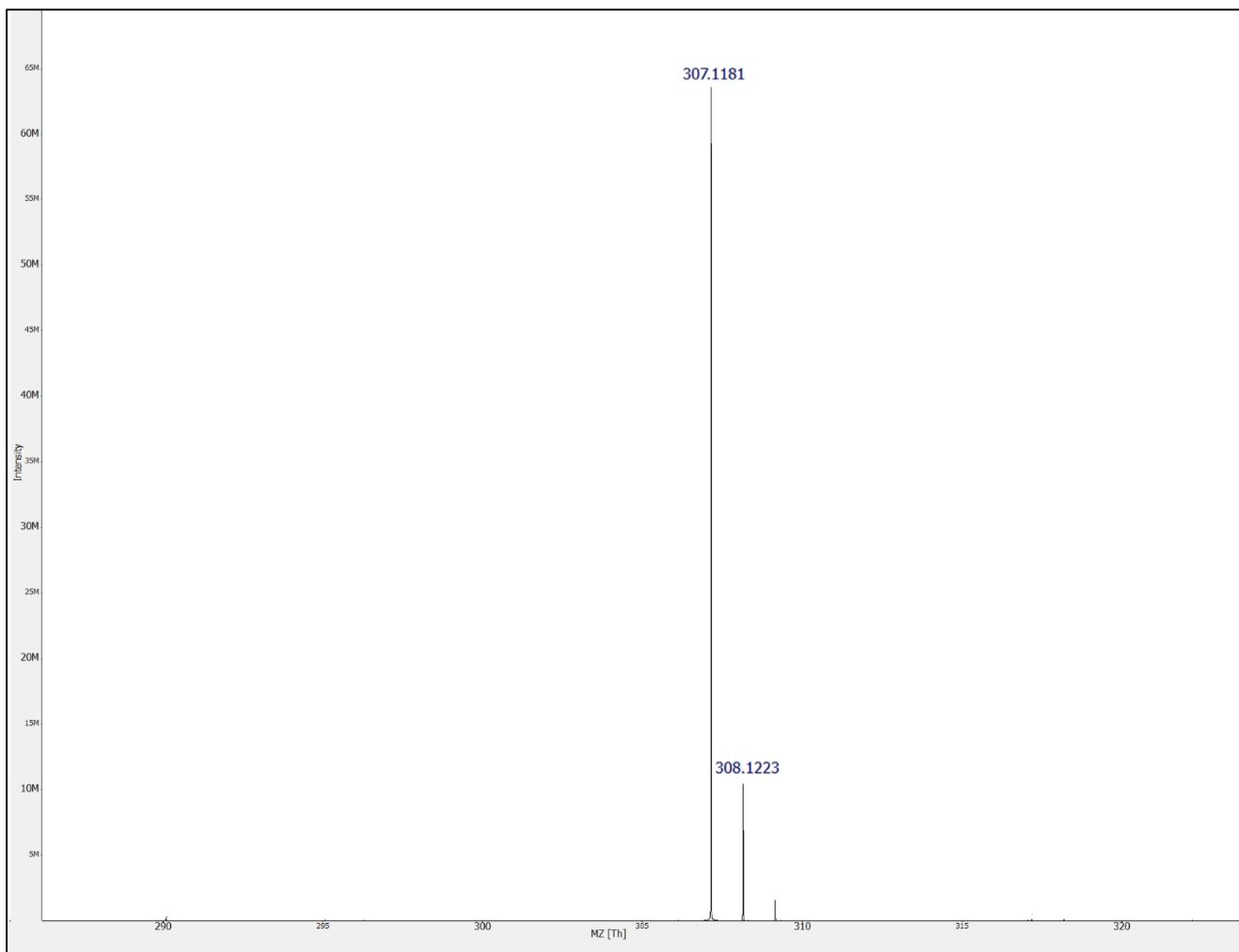
**Figure S19.** HSQC spectrum of (+)-citreoisocoumarin (**3**) ( $\text{CDCl}_3$ ).



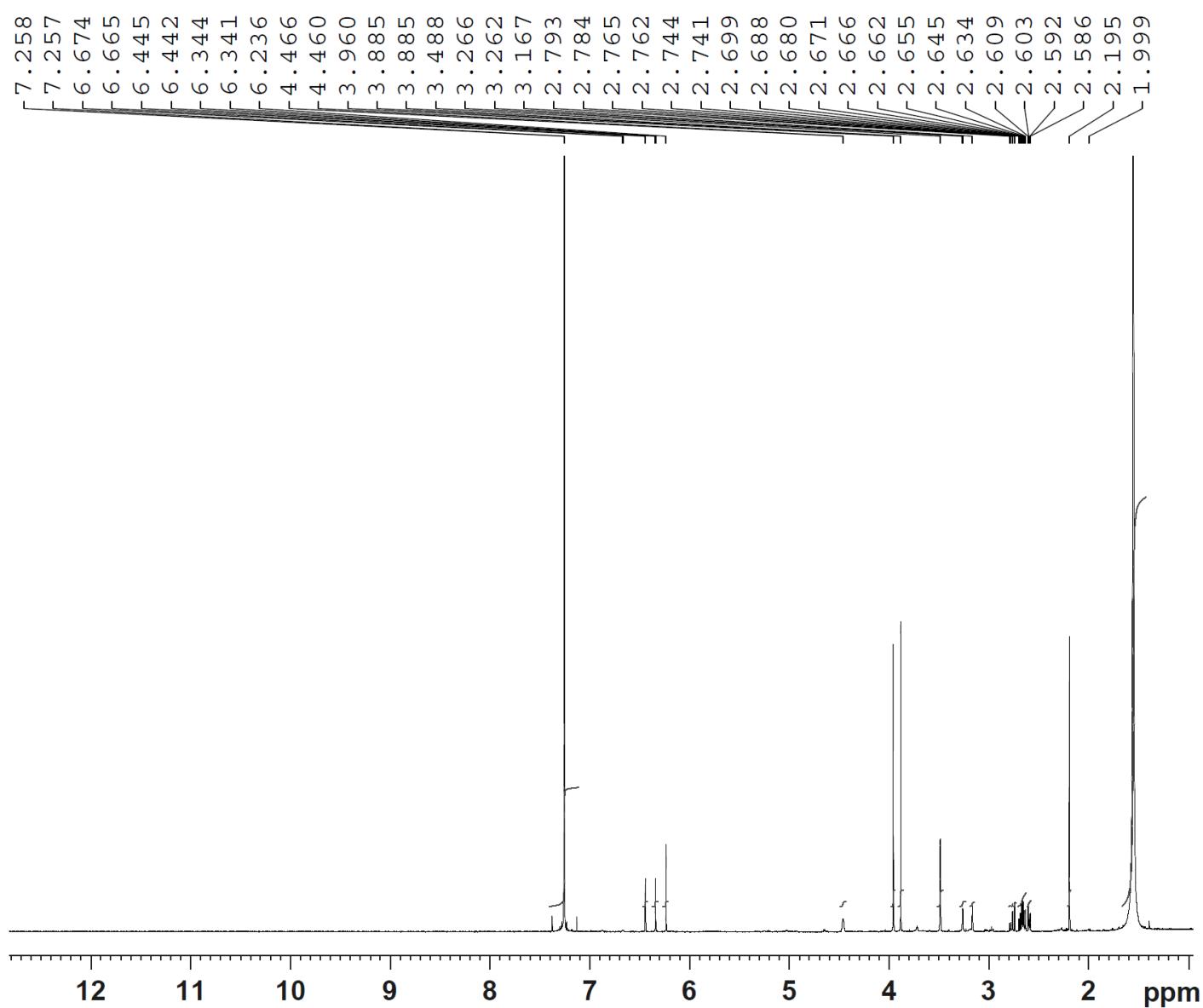
**Figure S20.** HMBC spectrum of (+)-citreoisocoumarin (**3**) ( $\text{CDCl}_3$ ).



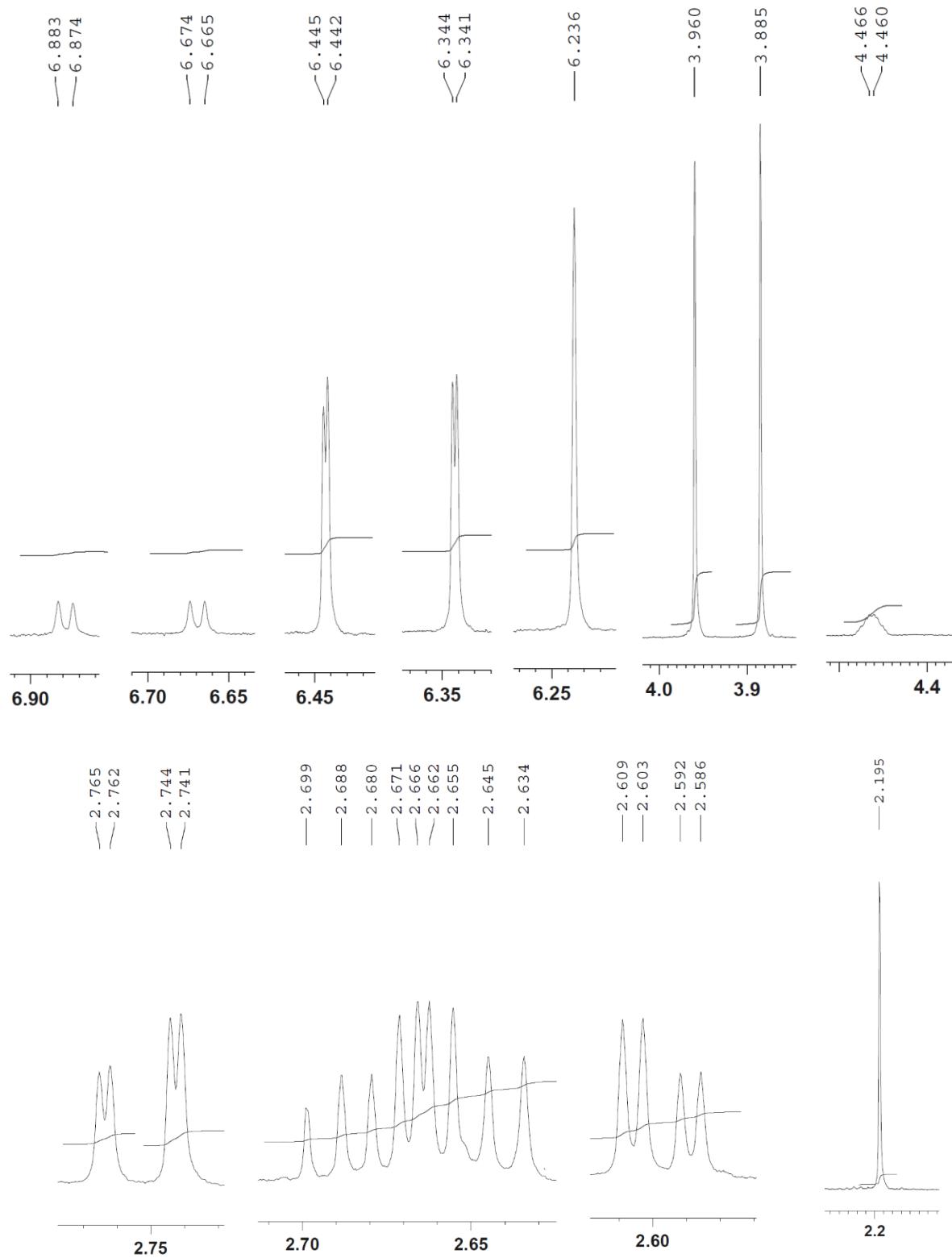
**Figure 21.** HRESIMS spectrum of (-)-6,8-di-O-methylcitreoisocoumarin (**4**).



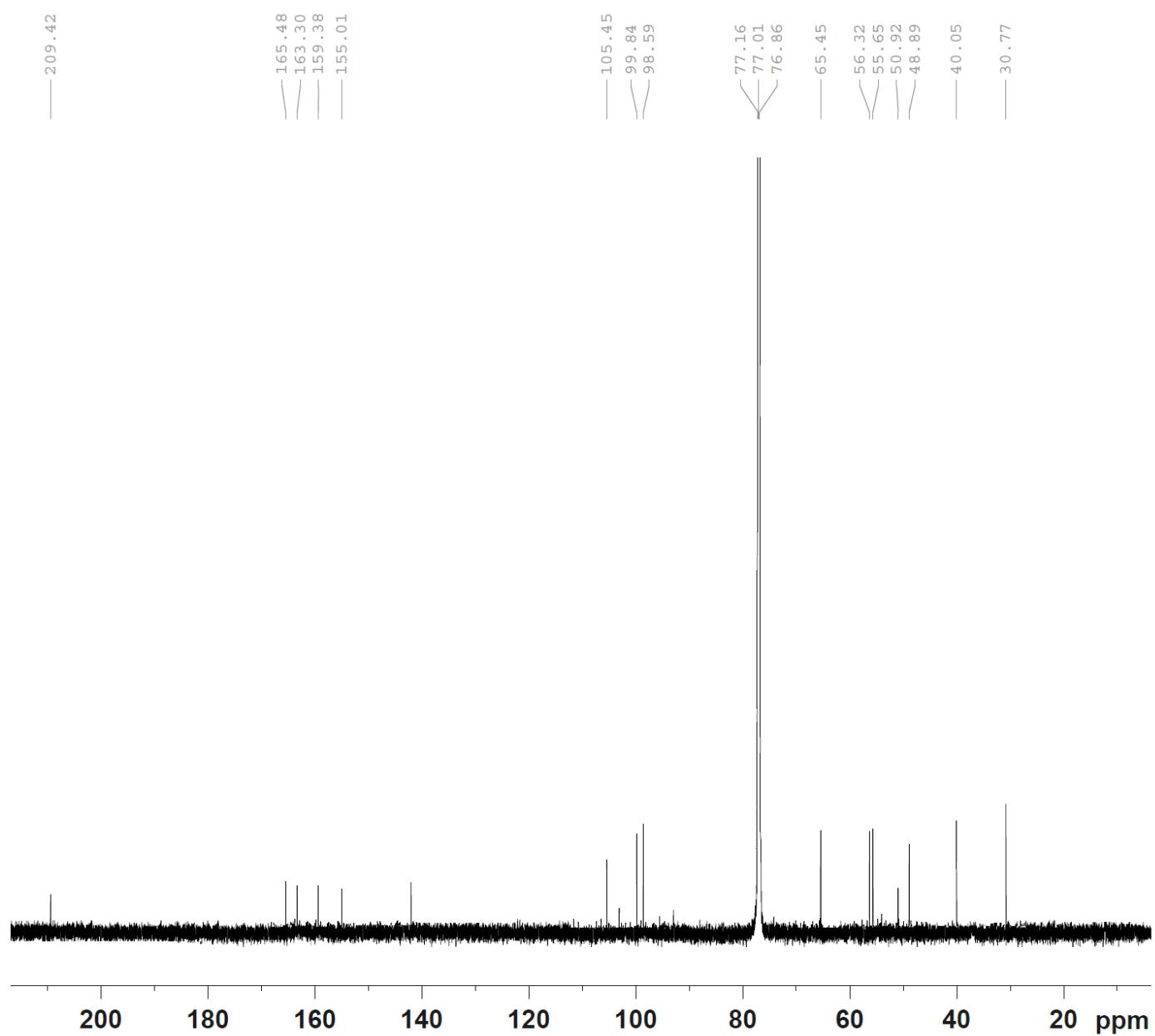
**Figure S22.** 600 MHz  $^1\text{H}$  NMR spectrum of (*-*)-6,8-di-*O*-methylcitreoisocoumarin (**4**) ( $\text{CDCl}_3$ ).



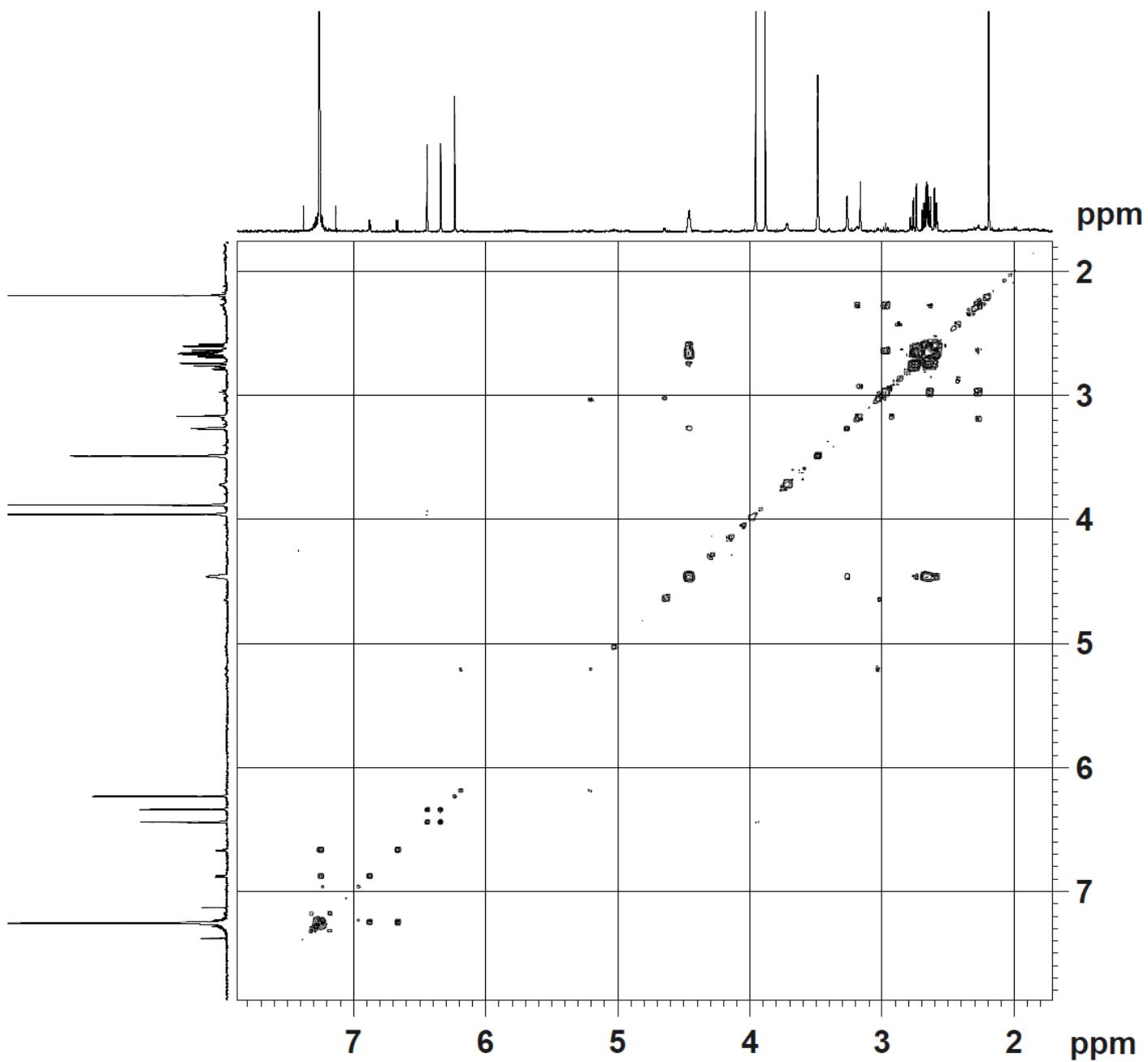
**Figure S22.** 600 MHz  $^1\text{H}$  NMR spectrum of (*-*)-6,8-di-*O*-methylcitreoisocoumarin (**4**) ( $\text{CDCl}_3$ ) (Cont.).



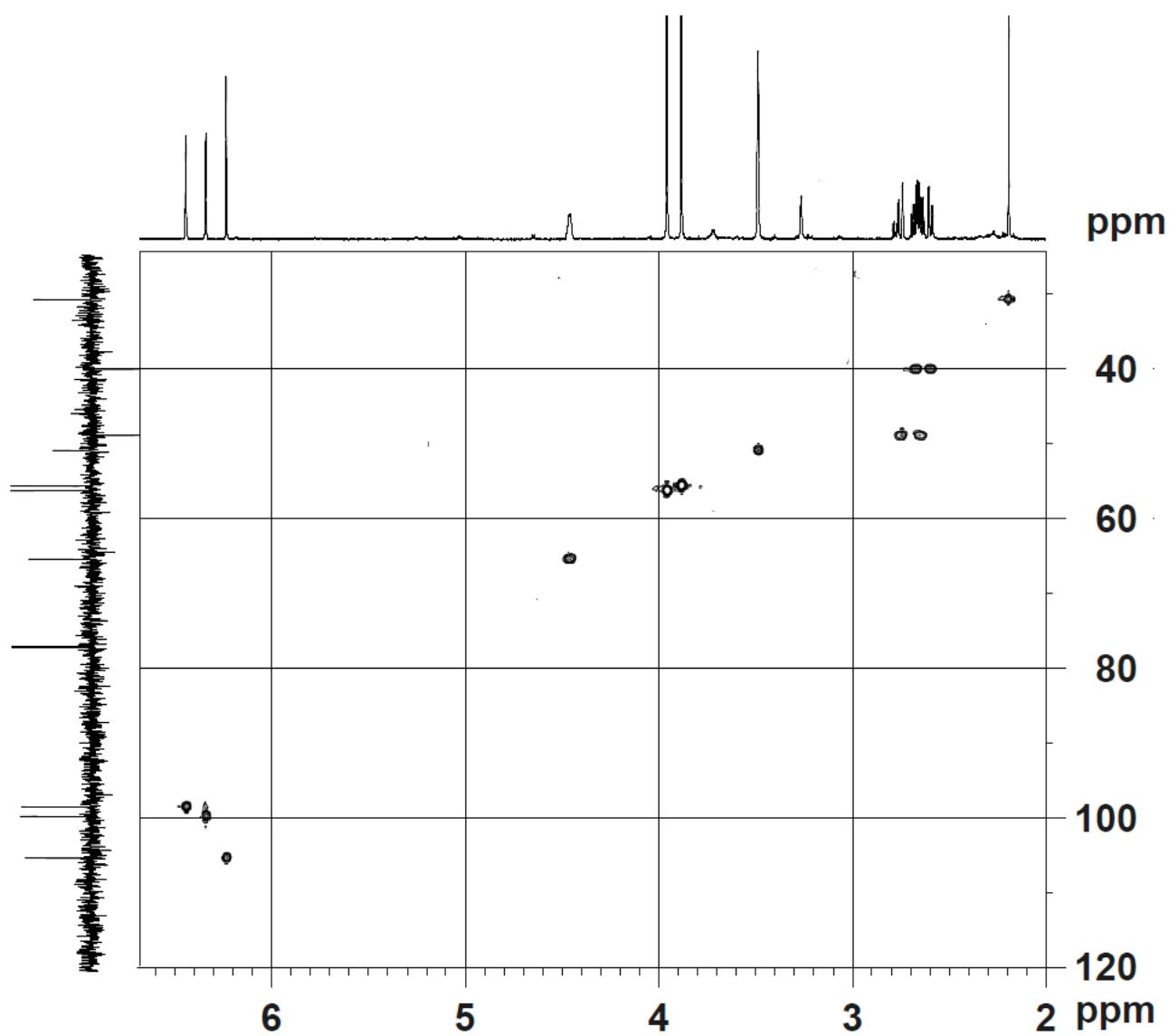
**Figure S23.** 150 MHz  $^{13}\text{C}$  NMR spectrum of (*-*)-6,8-di-*O*-methylcitreoisocoumarin (**4**) ( $\text{CDCl}_3$ ).



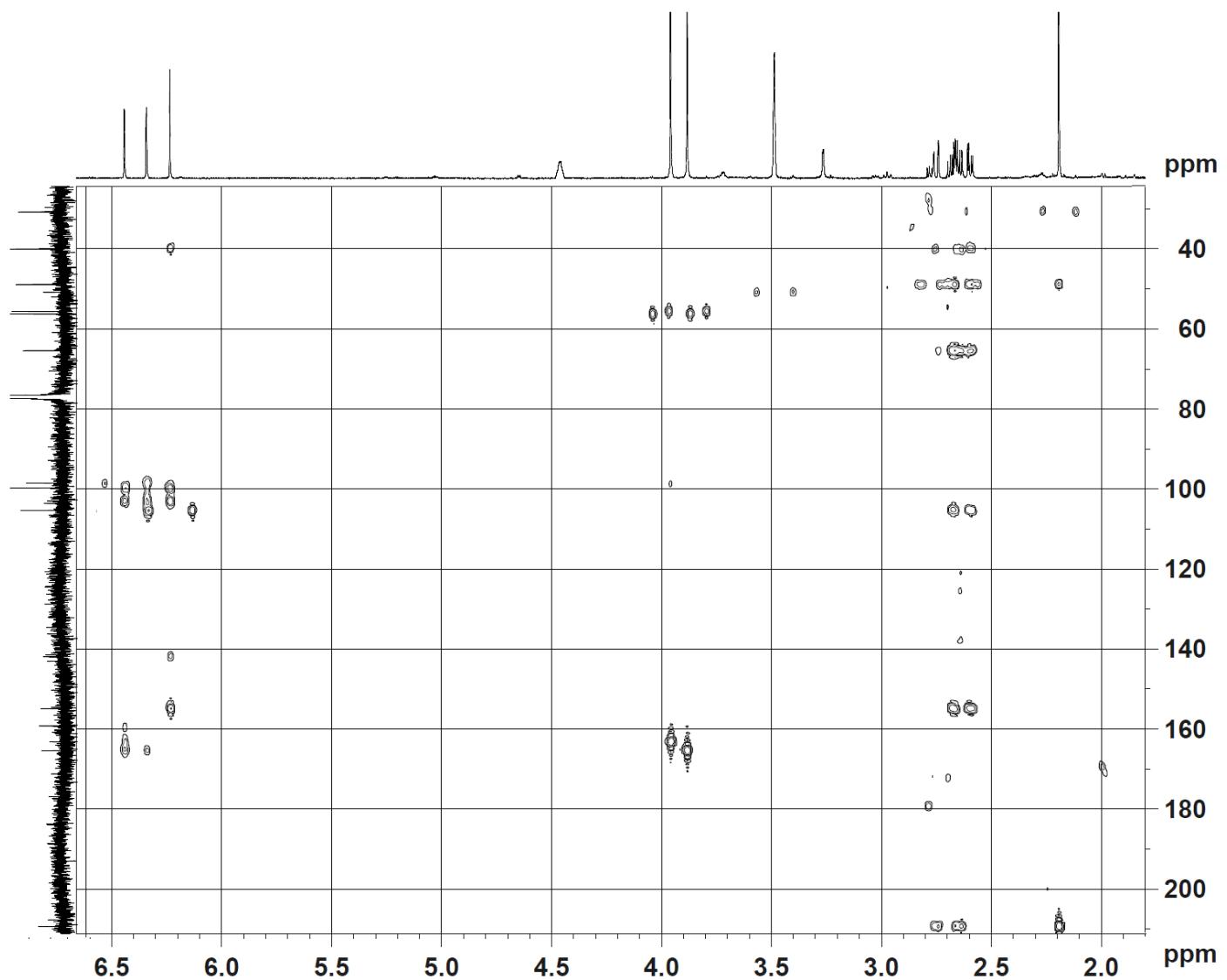
**Figure S24.** COSY spectrum of (-)-6,8-di-*O*-methylcitroisocoumarin (**4**) ( $\text{CDCl}_3$ ).



**Figure S25.** HSQC spectrum of (*-*)-6,8-di-*O*-methylcitroisocoumarin (**4**) ( $\text{CDCl}_3$ ).



**Figure S26.** HMBC spectrum of (-)-6,8-di-*O*-methylcitreoisocoumarin (**4**) ( $\text{CDCl}_3$ ).



**Figure 27.** HPLC chromatograms of L-FDLA derivatized standard amino acid and the hydrolysates of compounds **1** and **2**.

