

## Supplementary Material

# **Triterpenes and Pheophorbides from *Camellia ptilosperma* and their Cytotoxicity, Photocytotoxicity, and Photodynamic Antibacterial Activity**

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## 1. Spectroscopic data for compound 1

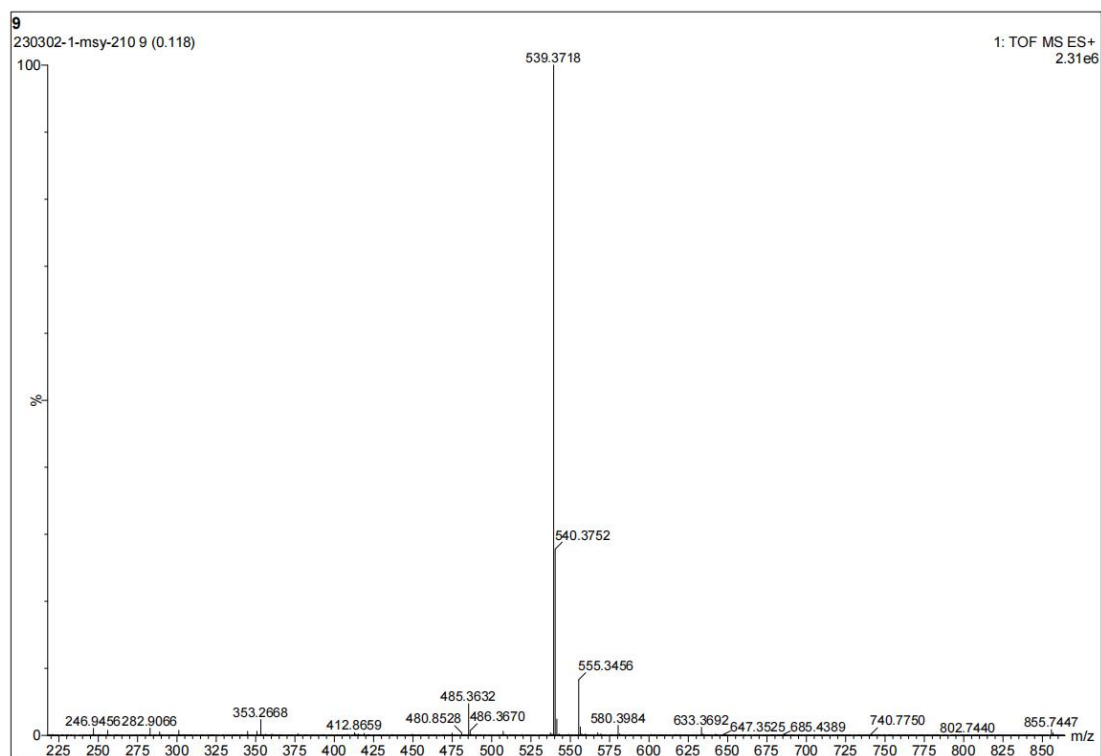


Figure S1-1. The HR-ESI-MS of compound 1.

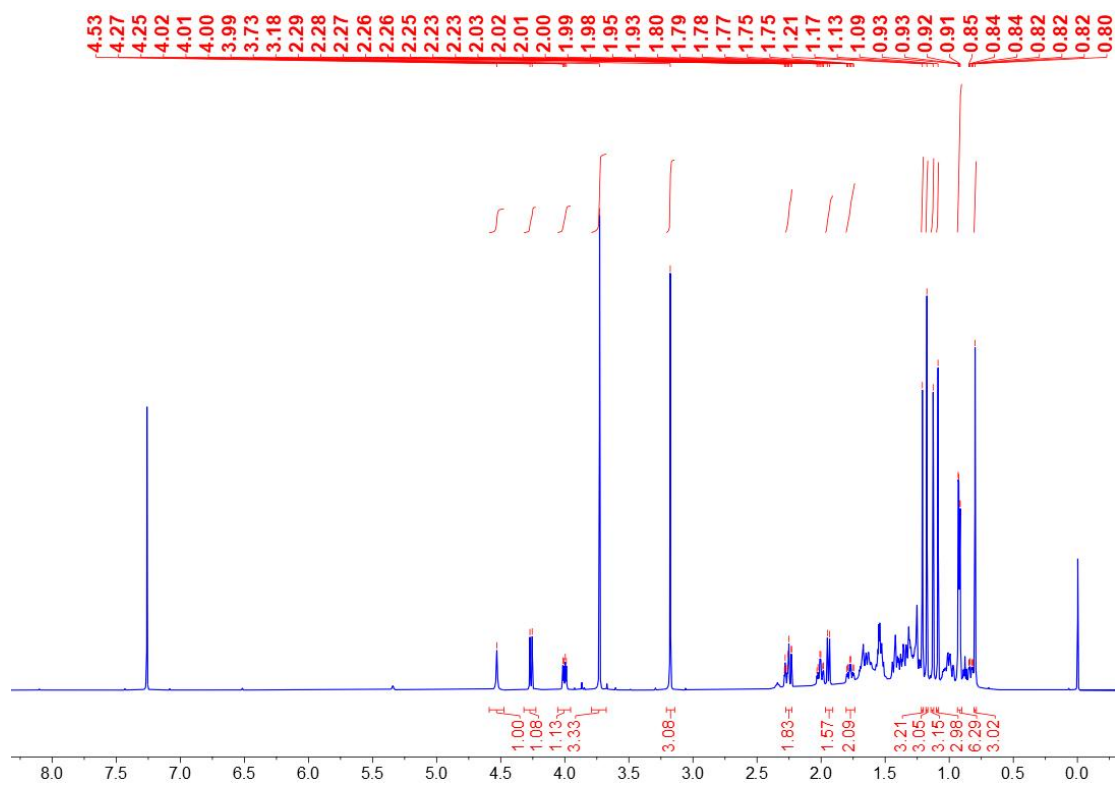
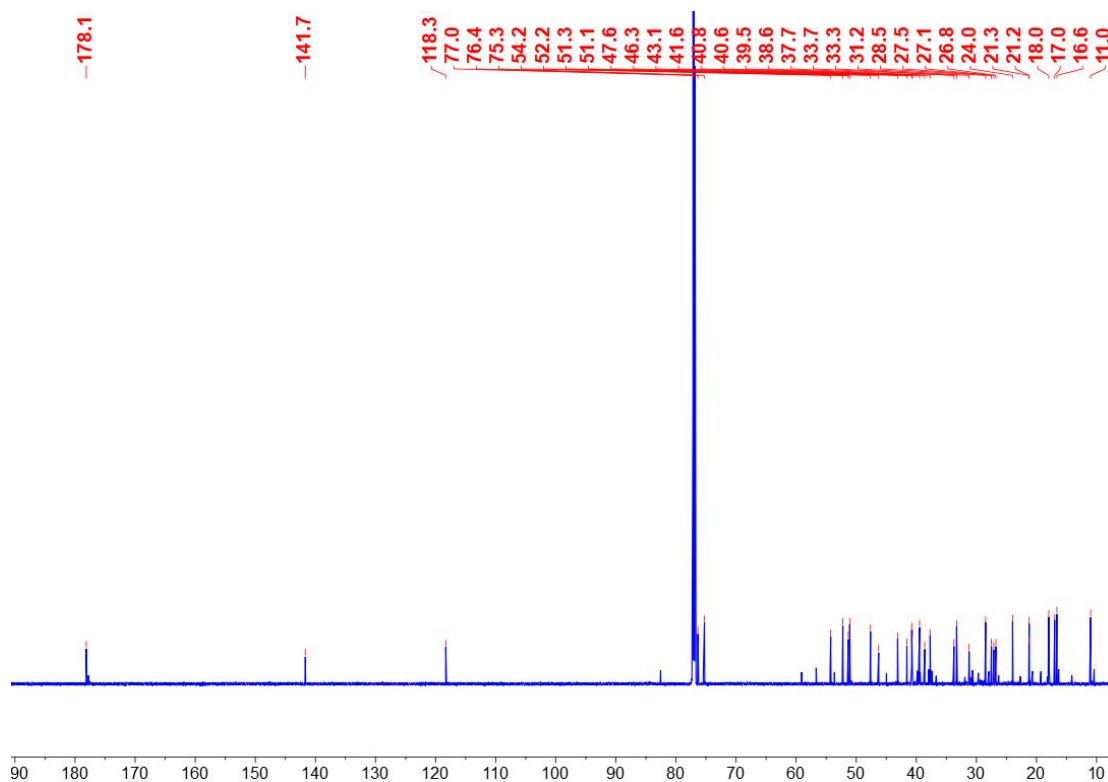
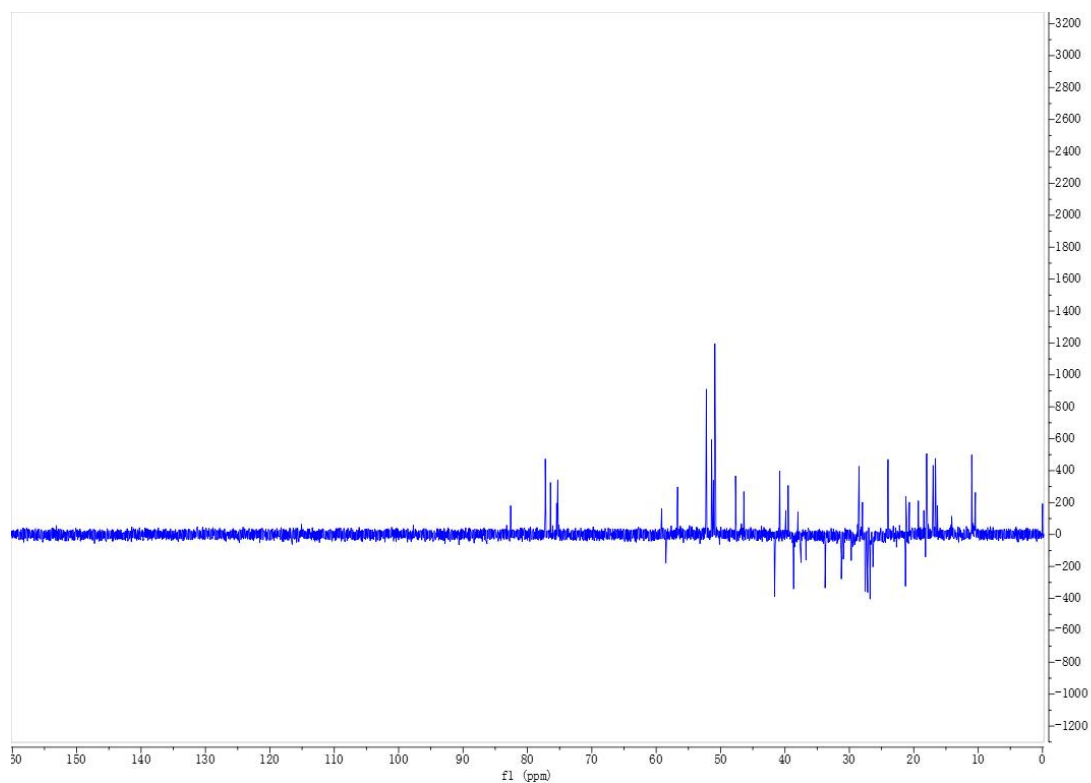


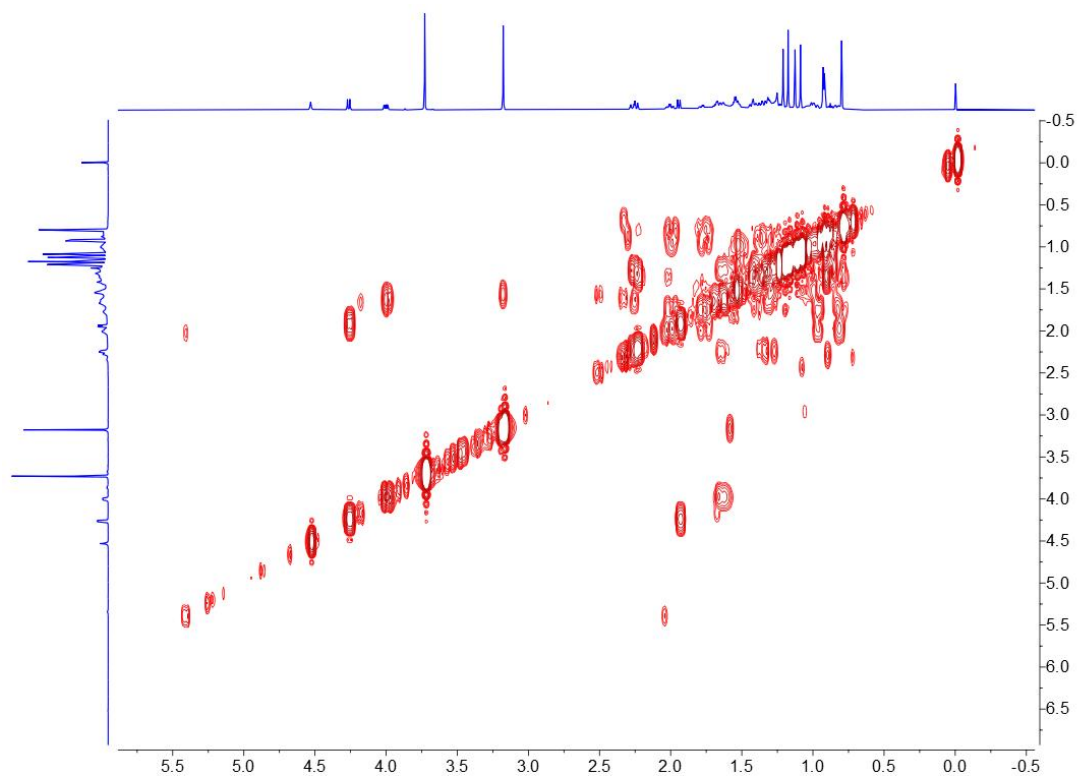
Figure S1-2. The  $^1\text{H}$  NMR spectrum of compound 1 (600 MHz,  $\text{CDCl}_3$ ).



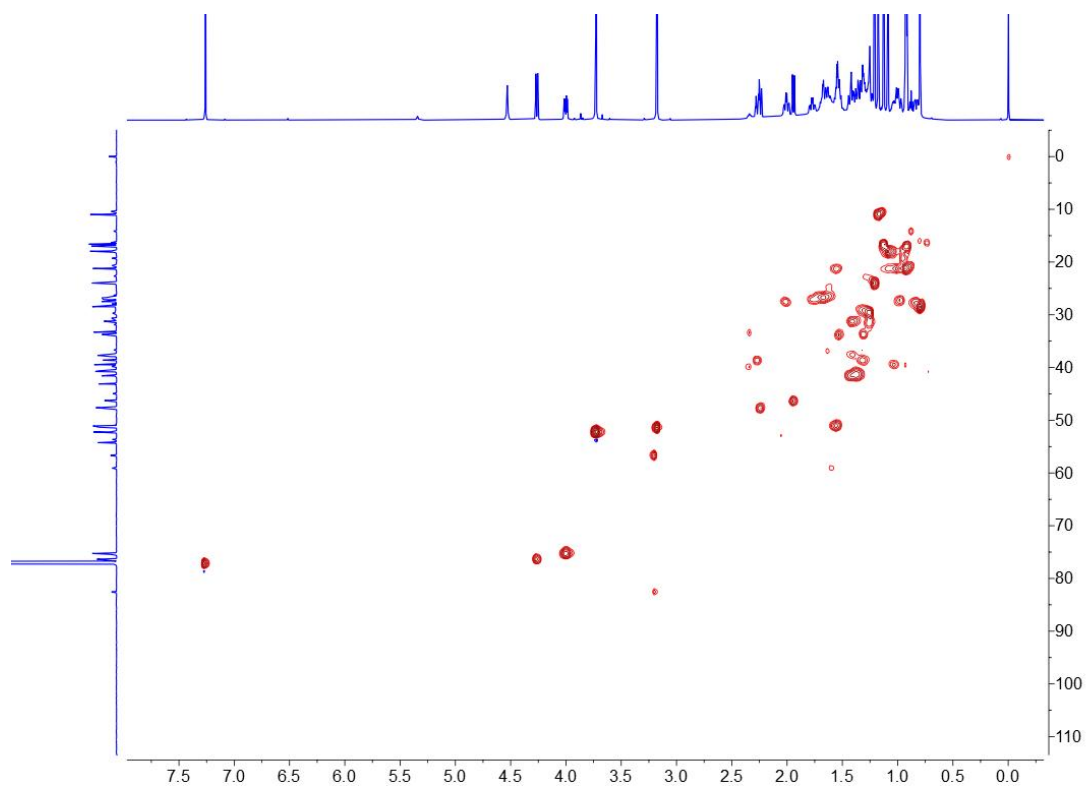
**Figure S1-3.** The  $^{13}\text{C}$  NMR spectrum of compound **1** (151 MHz,  $\text{CDCl}_3$ ).



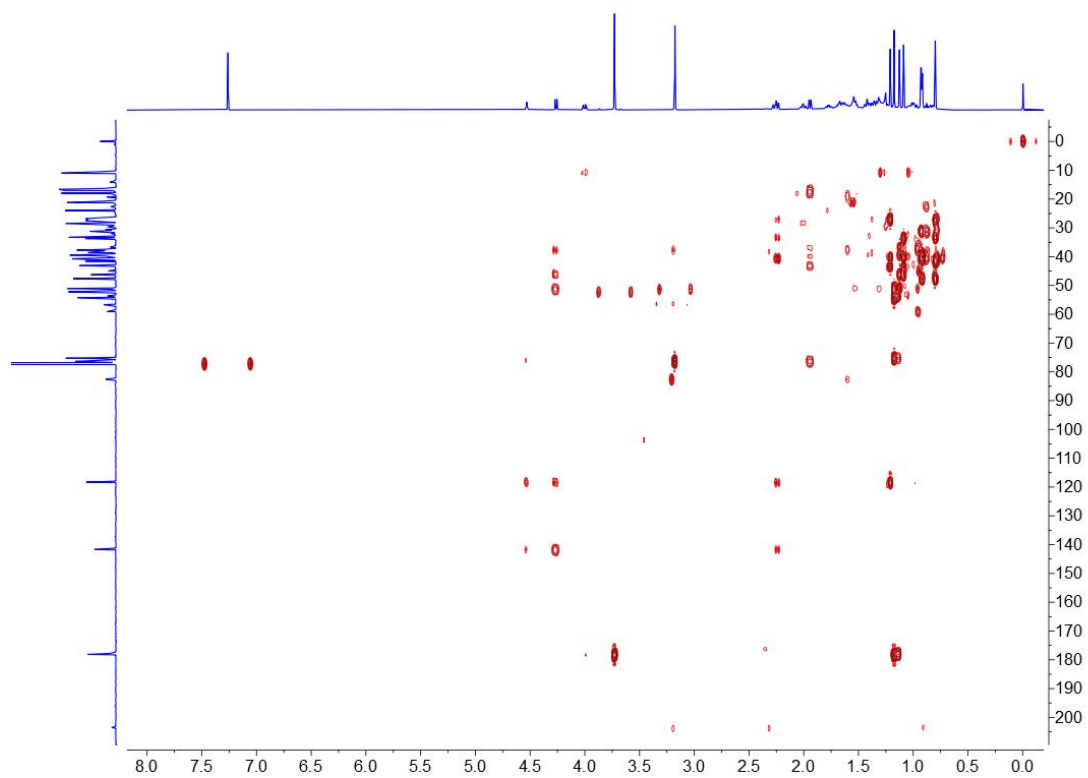
**Figure S1-4.** The DEPT 135 spectrum of compound **1** (151 MHz,  $\text{CDCl}_3$ ).



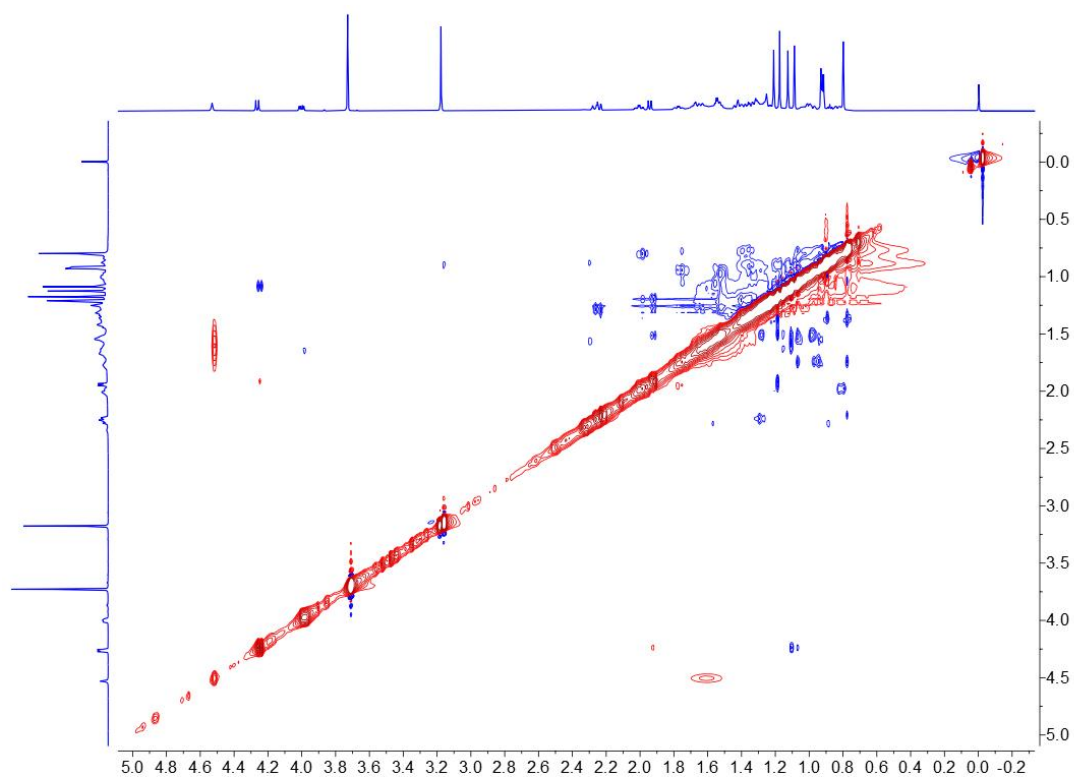
**Figure S1-5.** The  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of compound **1** (600 MHz,  $\text{CDCl}_3$ ).



**Figure S1-6.** The HSQC spectrum of compound **1** (600/151 MHz,  $\text{CDCl}_3$ ).



**Figure S1-7.** The HMBC spectrum of compound **1** (600/151 MHz, CDCl<sub>3</sub>).



**Figure S1-8.** The NOESY spectrum of compound **1** (600 MHz, CDCl<sub>3</sub>).

## 2. Spectroscopic data for compound 2

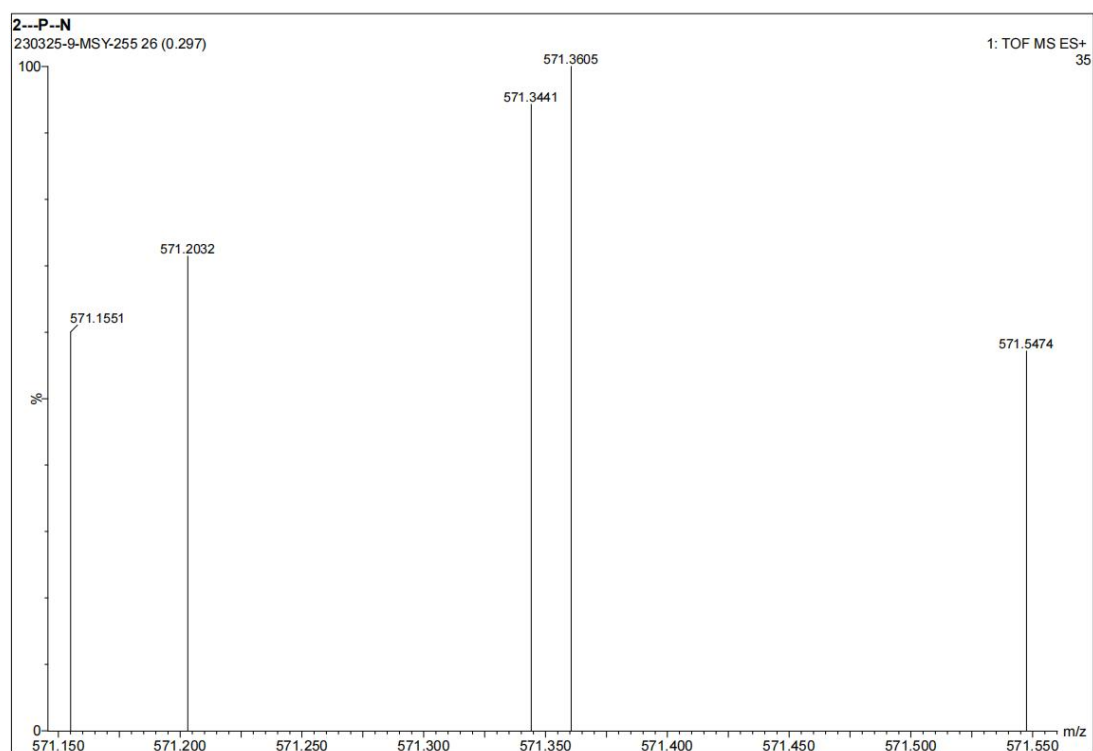


Figure S2-1. The HR-ESI-MS of compound 2.

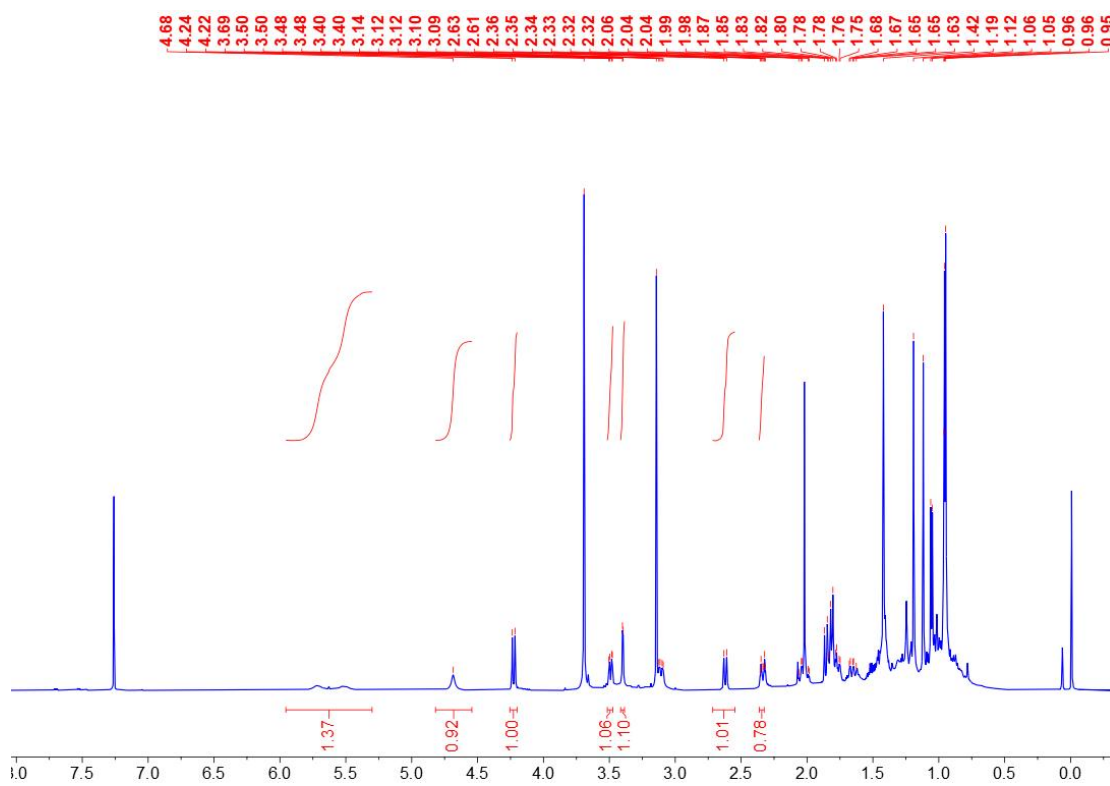
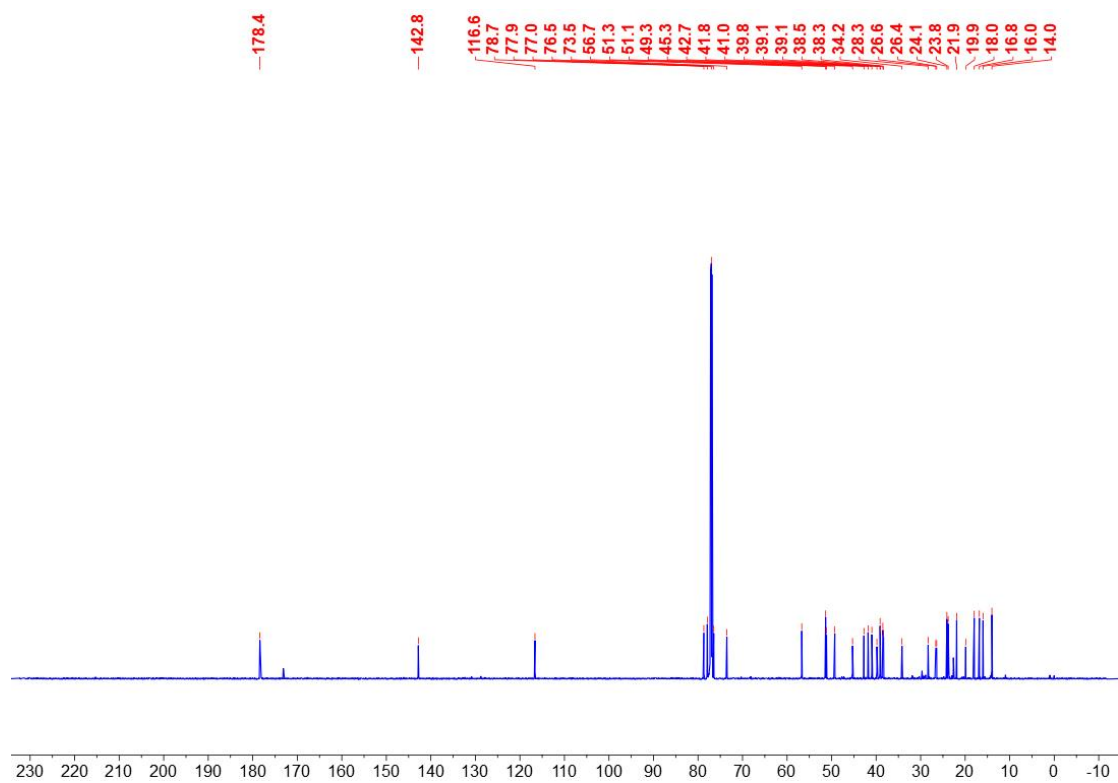
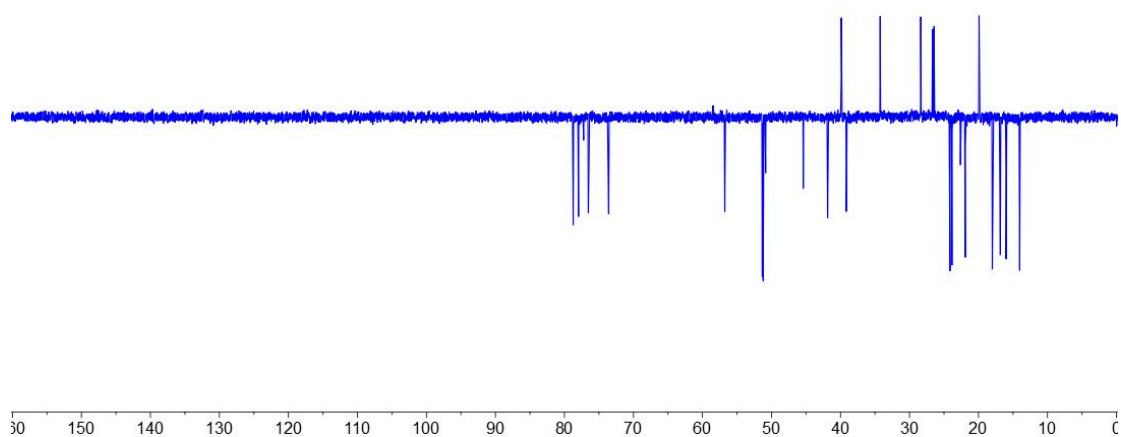


Figure S2-2. The  $^1\text{H}$  NMR spectrum of compound 2 (600 MHz,  $\text{CDCl}_3$ ).

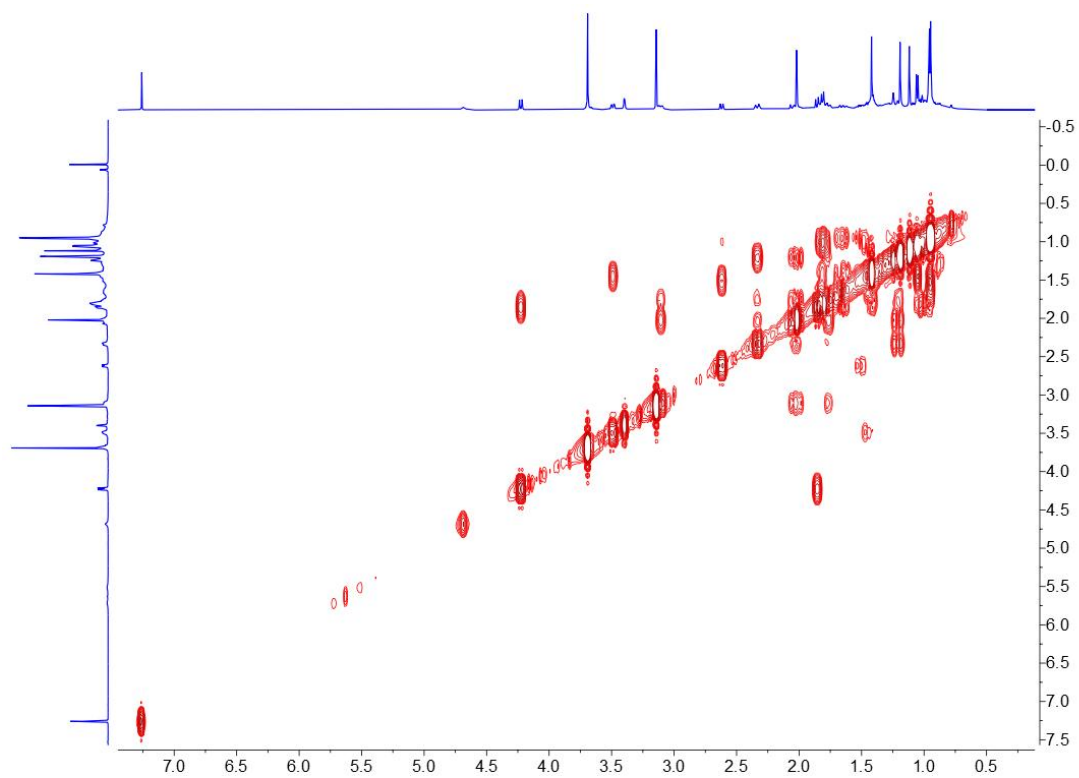


**Figure S2-3.** The  $^{13}\text{C}$  NMR spectrum of compound **2** (151 MHz,  $\text{CDCl}_3$ ).

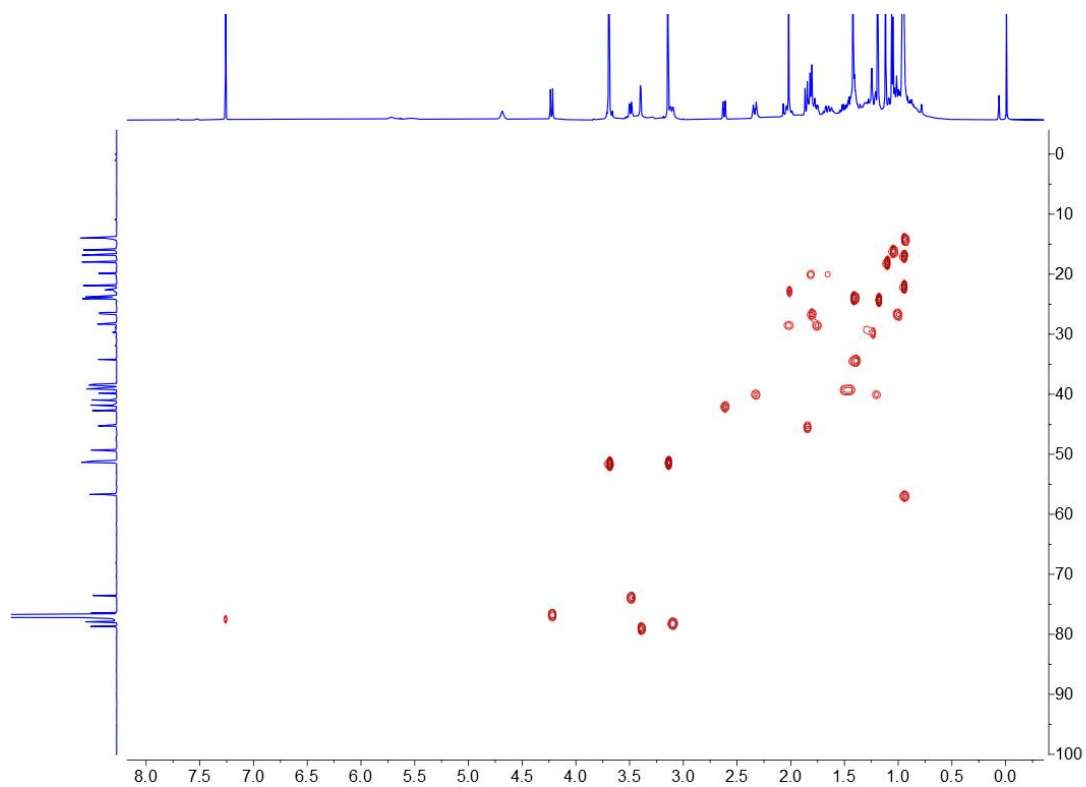


**Figure S2-4.** The DEPT 135 spectrum of compound **2** (151 MHz,  $\text{CDCl}_3$ ).

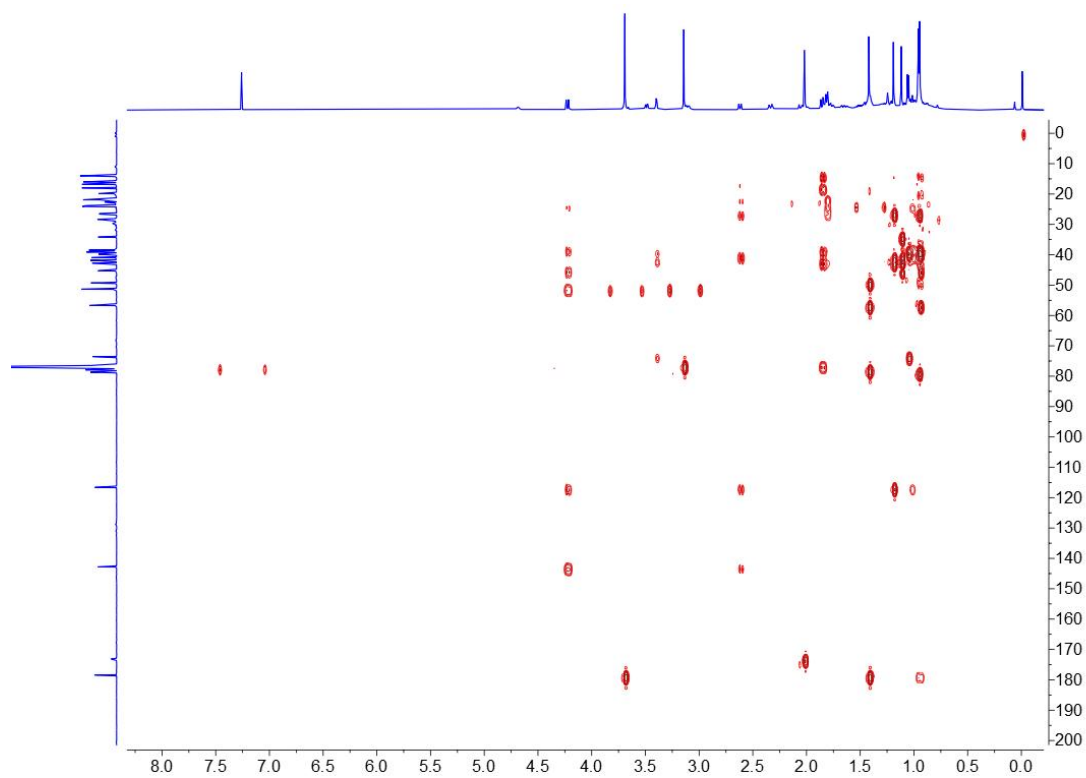




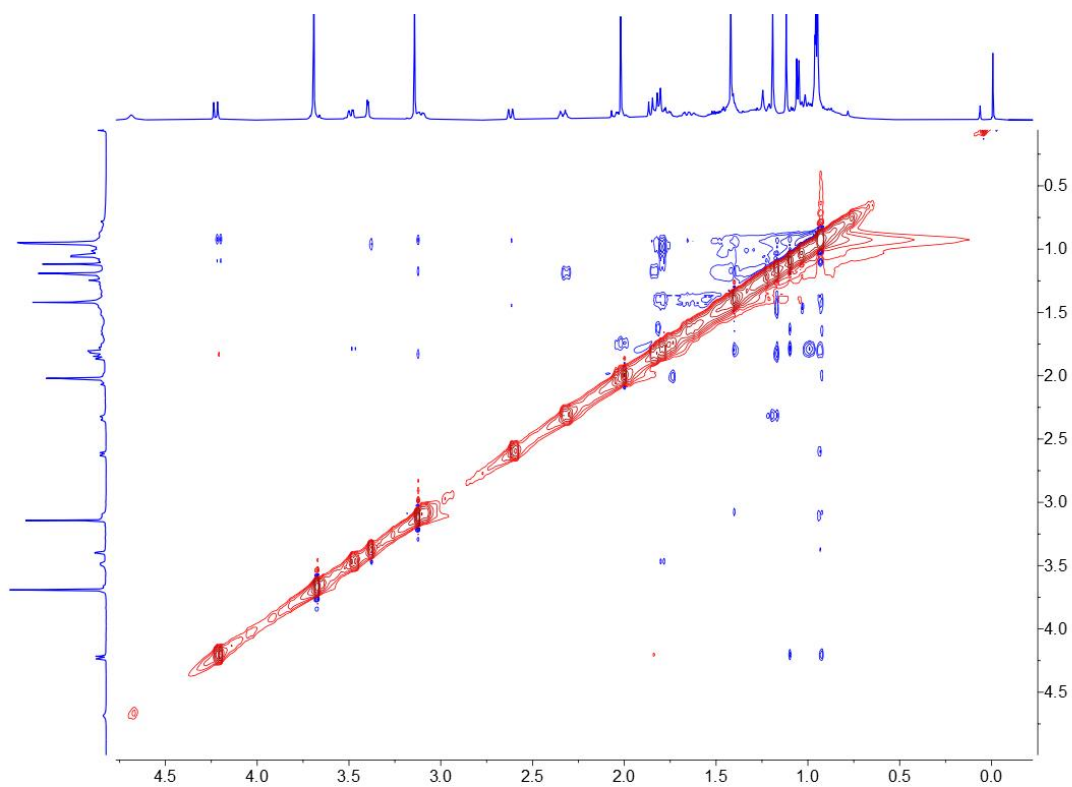
**Figure S2-5.** The  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of compound **2** (600 MHz,  $\text{CDCl}_3$ ).



**Figure S2-6.** The HSQC spectrum of compound **2** (600/151 MHz,  $\text{CDCl}_3$ ).



**Figure S2-7.** The HMBC spectrum of compound **2** (600/151 MHz,  $\text{CDCl}_3$ ).



**Figure S2-8.** The NOESY spectrum of compound **2** (600 MHz,  $\text{CDCl}_3$ ).

### 3. Spectroscopic data for compound 3

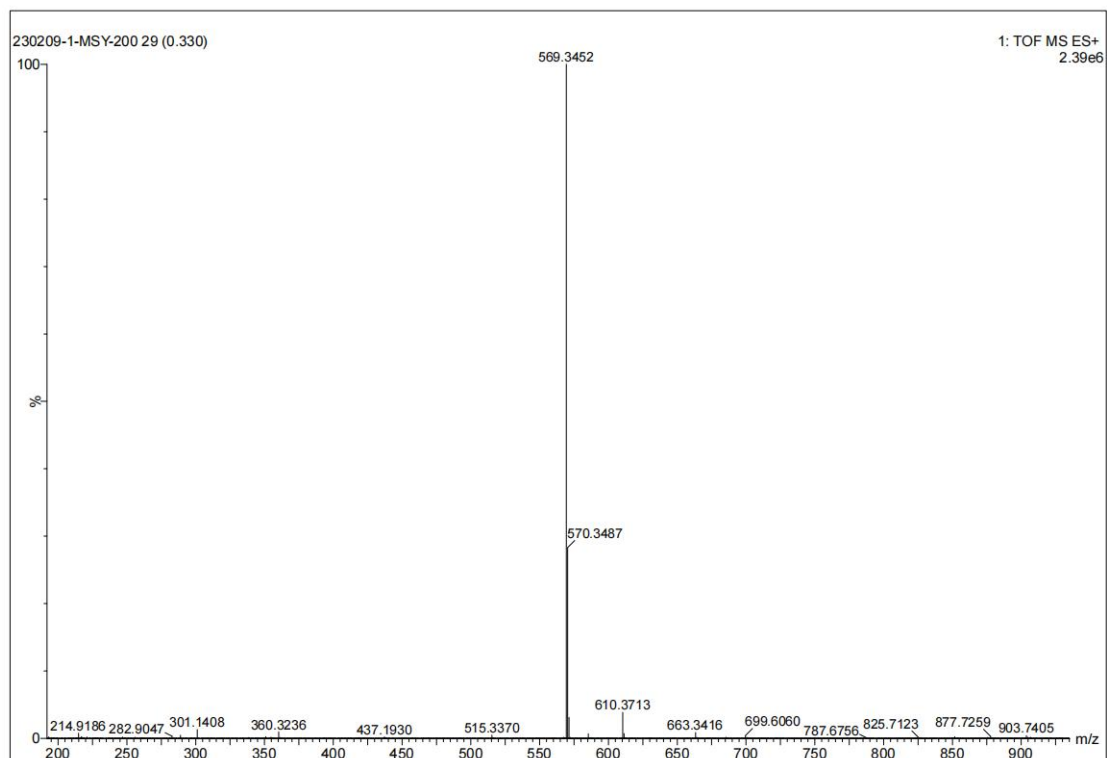


Figure S3-1. The HR-ESI-MS of compound 3.

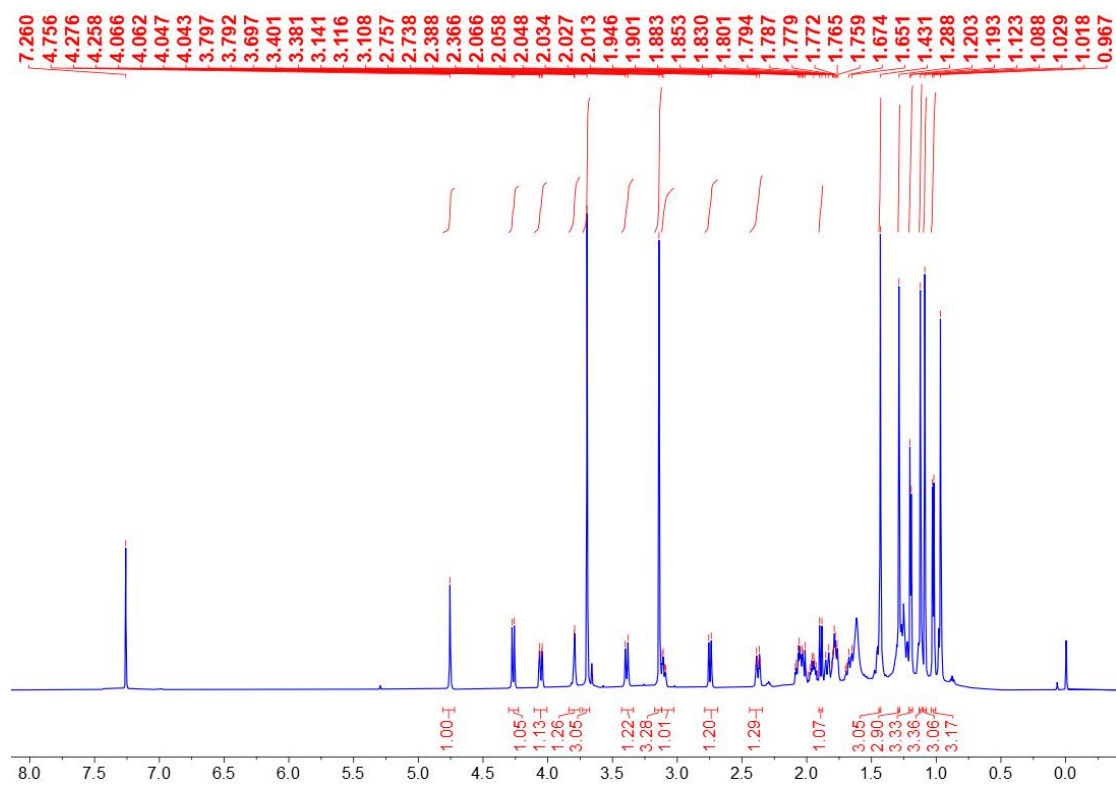
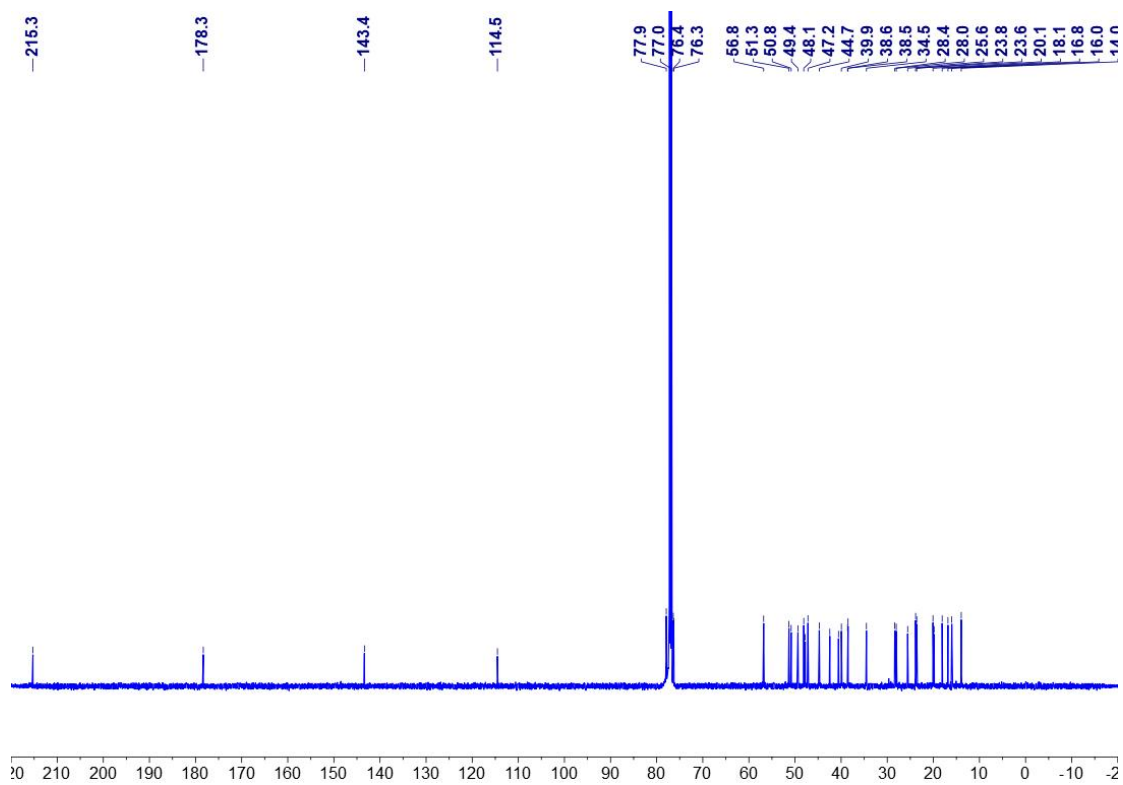
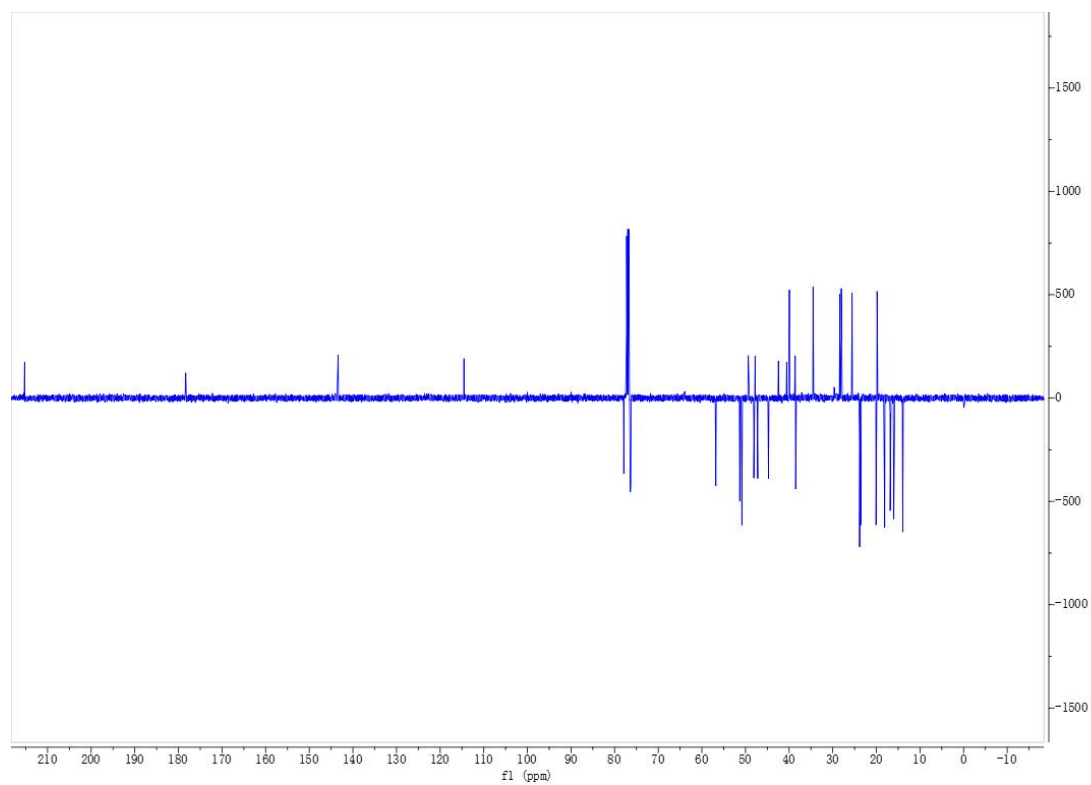


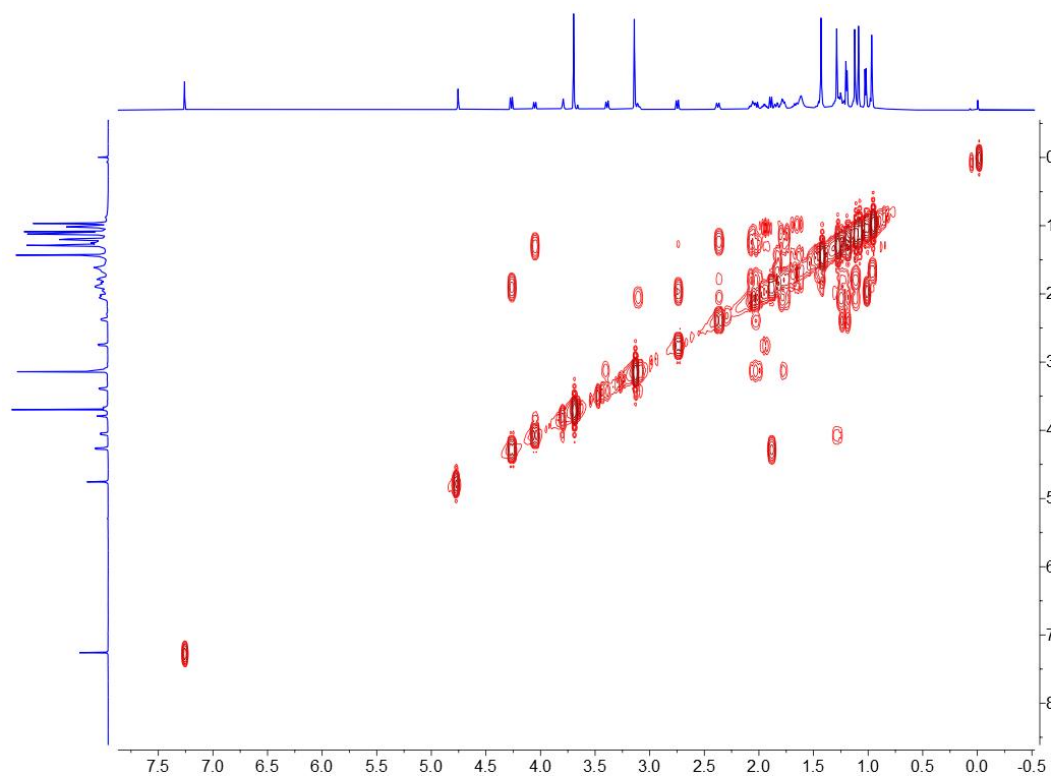
Figure S3-2. The  $^1\text{H}$  NMR spectrum of compound 3 (600 MHz,  $\text{CDCl}_3$ ).



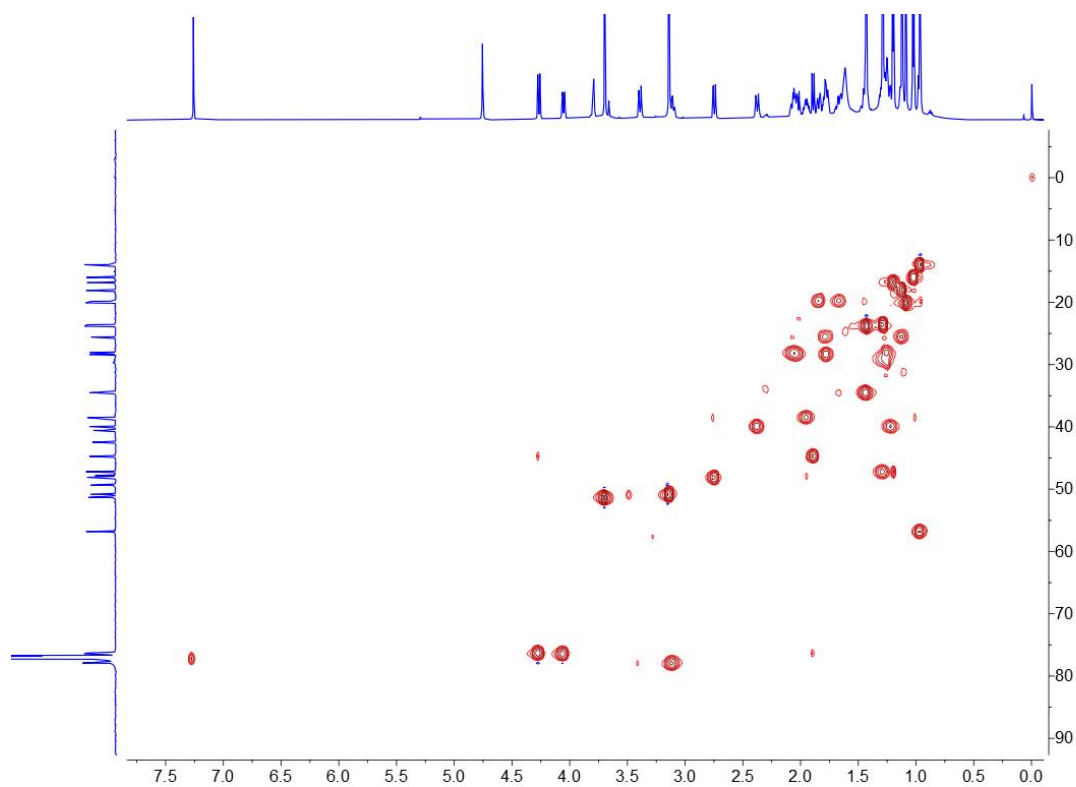
**Figure S3-3.** The  $^{13}\text{C}$  NMR spectrum of compound **3** (151 MHz,  $\text{CDCl}_3$ ).



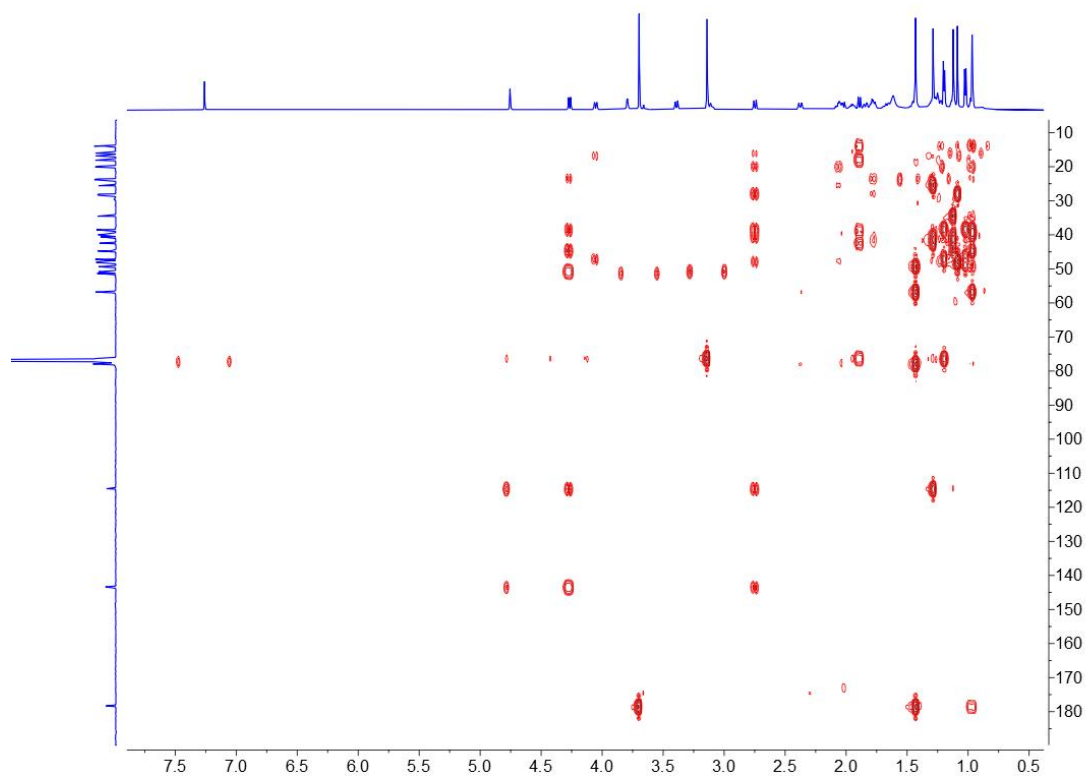
**Figure S3-4.** The DEPT 135 spectrum of compound **3** (151 MHz,  $\text{CDCl}_3$ ).



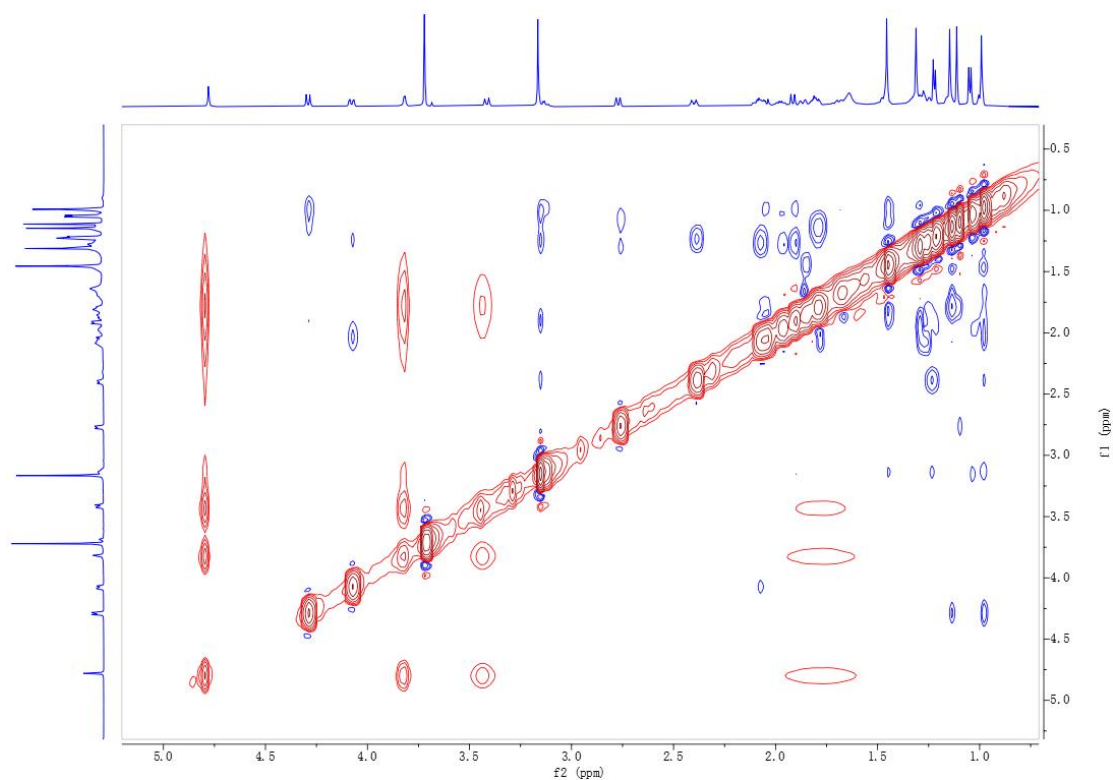
**Figure S3-5.** The  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of compound **3** (600 MHz,  $\text{CDCl}_3$ ).



**Figure S3-6.** The HSQC spectrum of compound **3** (600/151 MHz,  $\text{CDCl}_3$ ).



**Figure S3-7.** The HMBC spectrum of compound **3** (600/151 MHz,  $\text{CDCl}_3$ ).



**Figure S3-8.** The NOESY spectrum of compound **3** (600 MHz,  $\text{CDCl}_3$ ).

#### 4. Spectroscopic data for compound 4

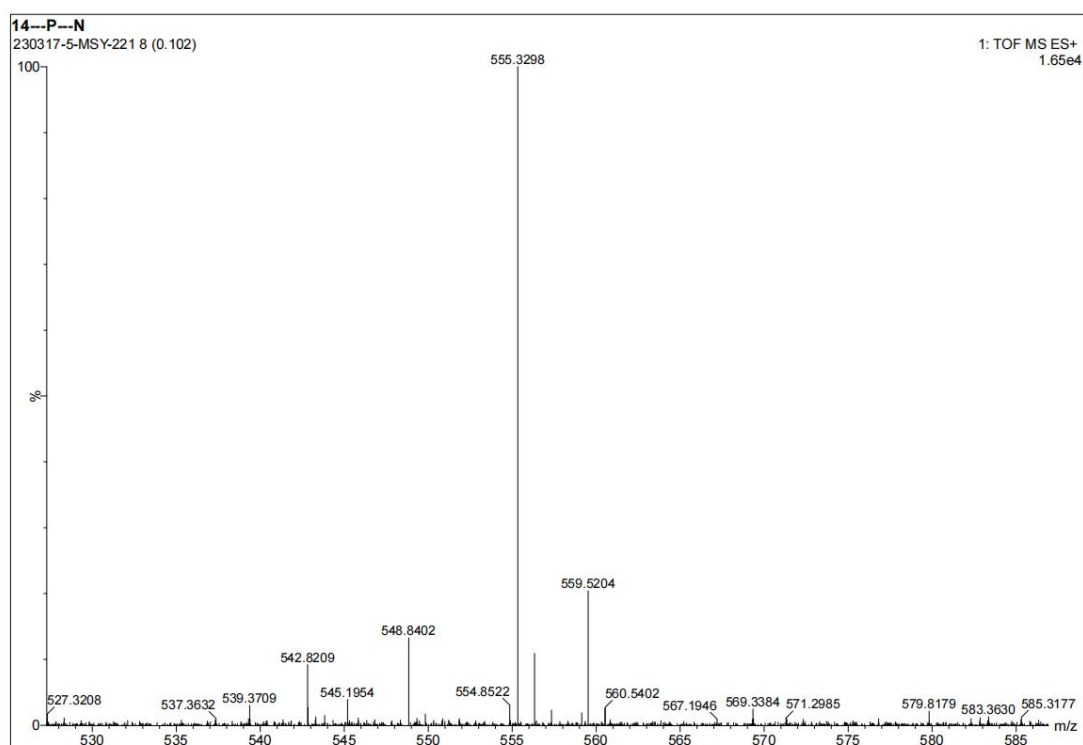


Figure S4-1. The HR-ESI-MS of compound 4.

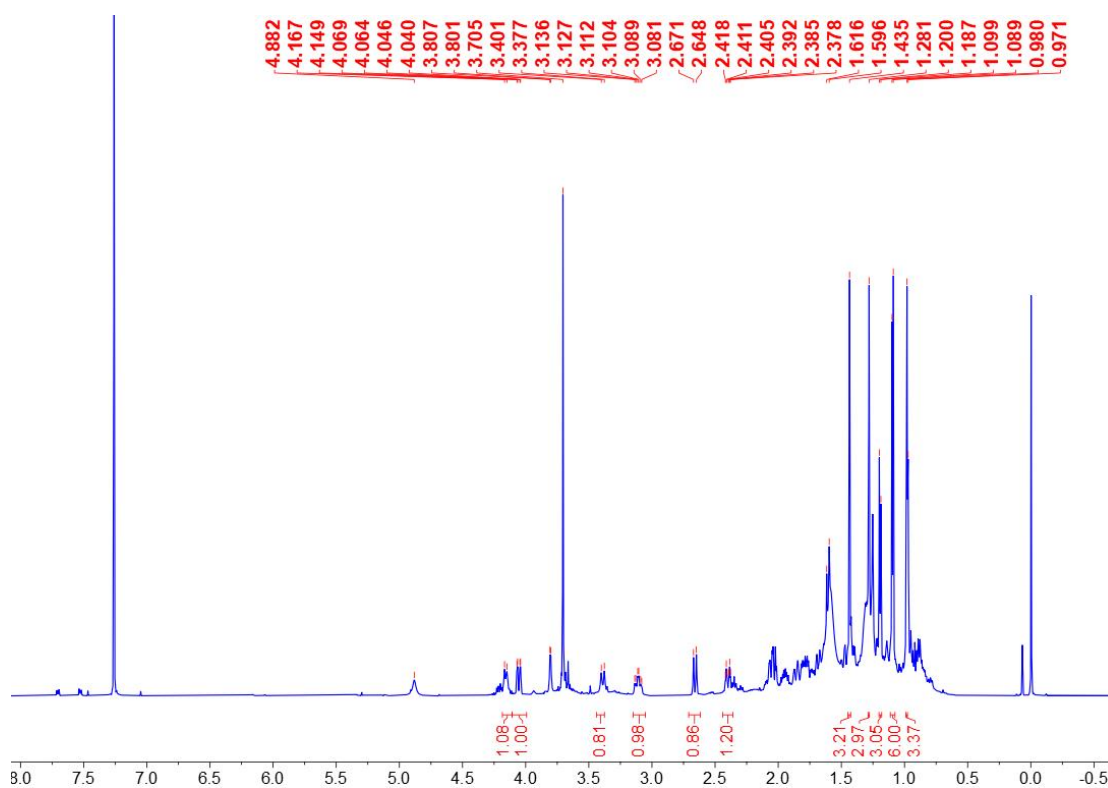
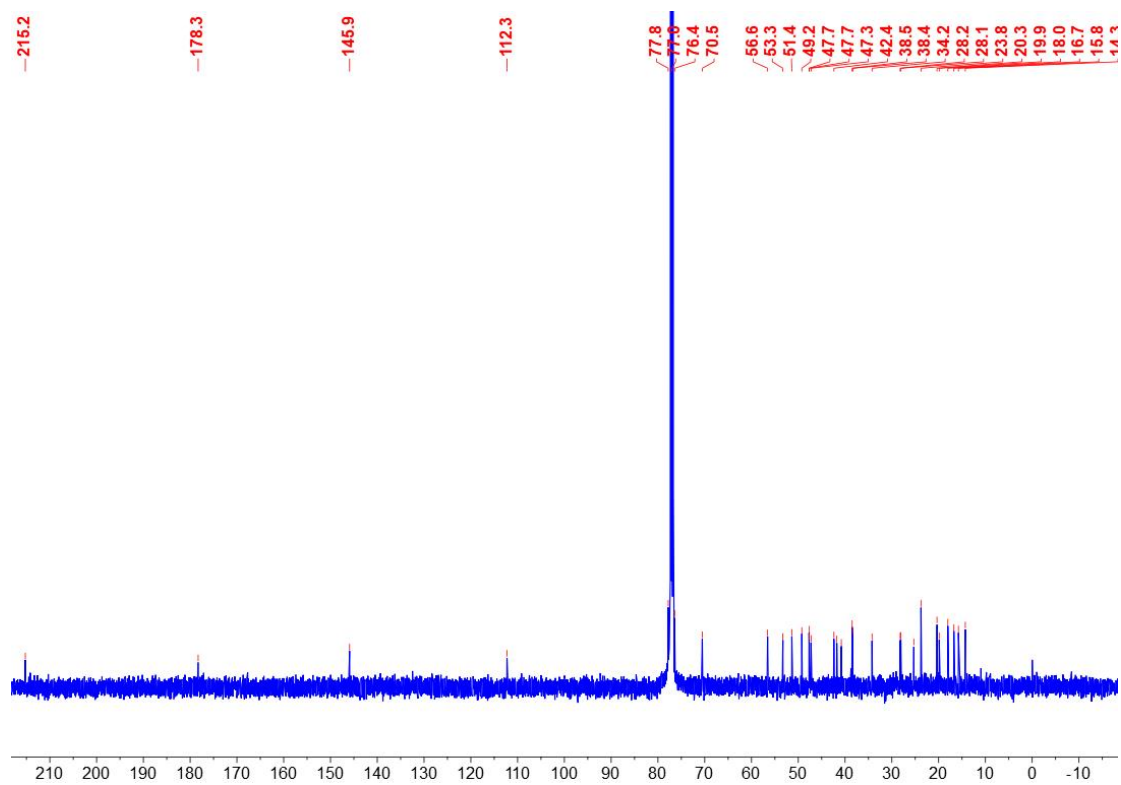
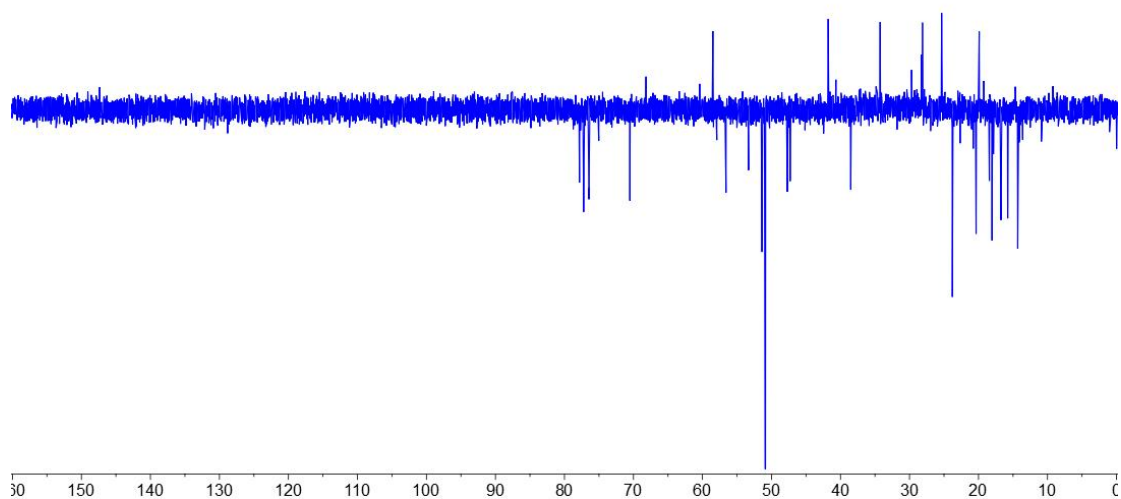


Figure S4-2. The  $^1\text{H}$  NMR spectrum of compound 4 (600 MHz,  $\text{CDCl}_3$ ).

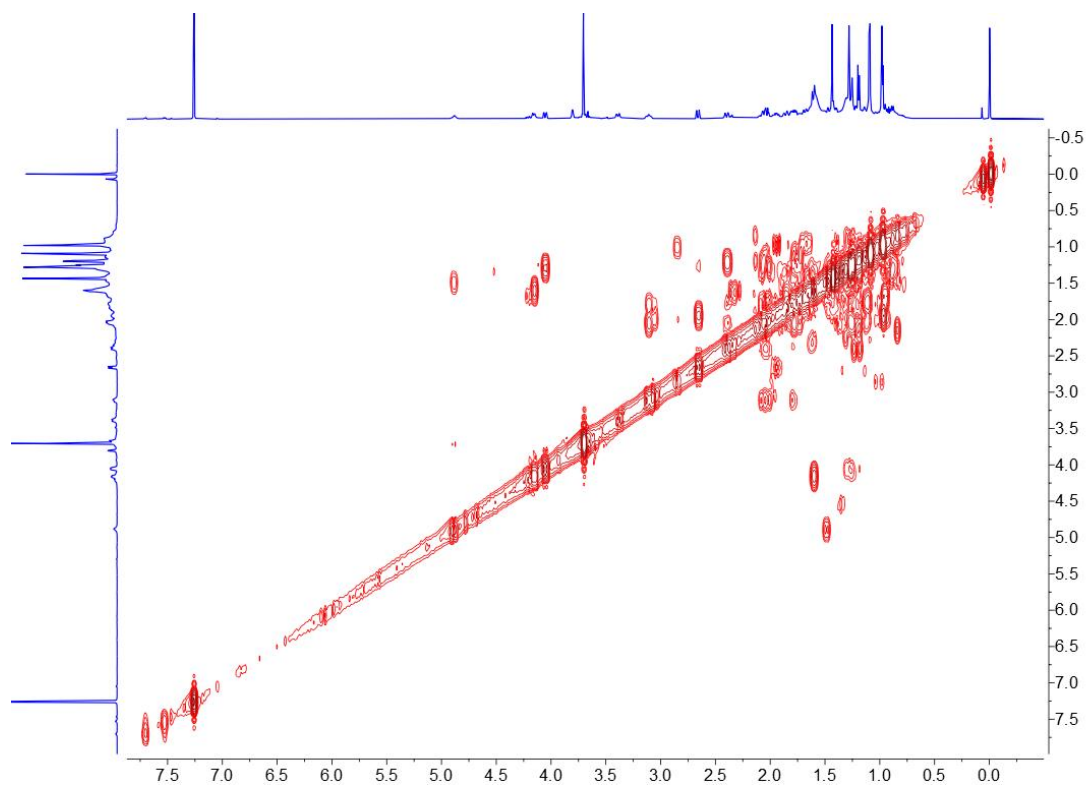


**Figure S4-3.** The  $^{13}\text{C}$  NMR spectrum of compound **4** (151 MHz,  $\text{CDCl}_3$ ).

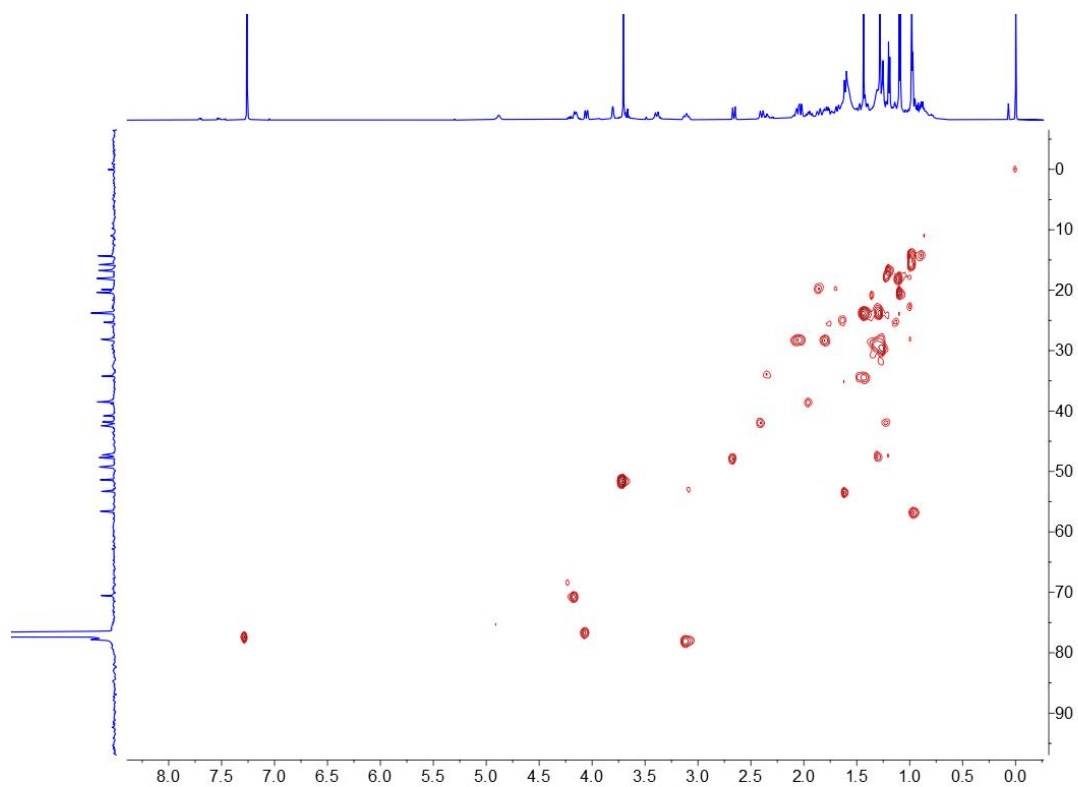


**Figure S4-4.** The DEPT 135 spectrum of compound **4** (151 MHz,  $\text{CDCl}_3$ ).

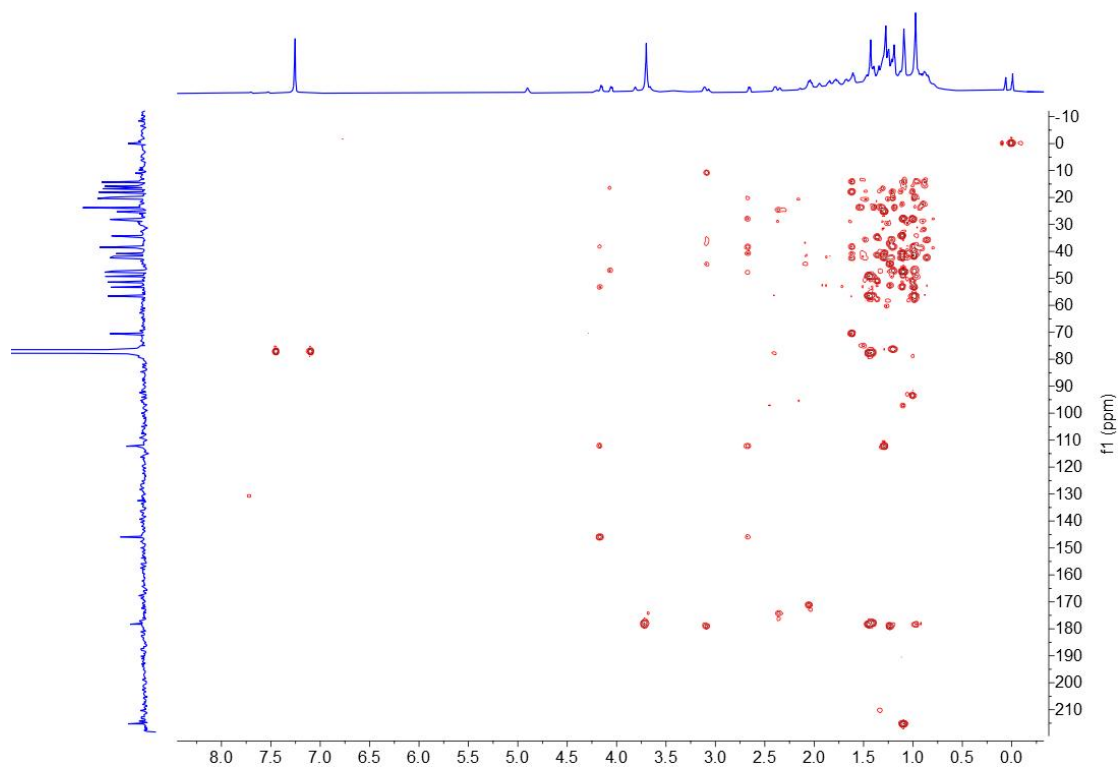




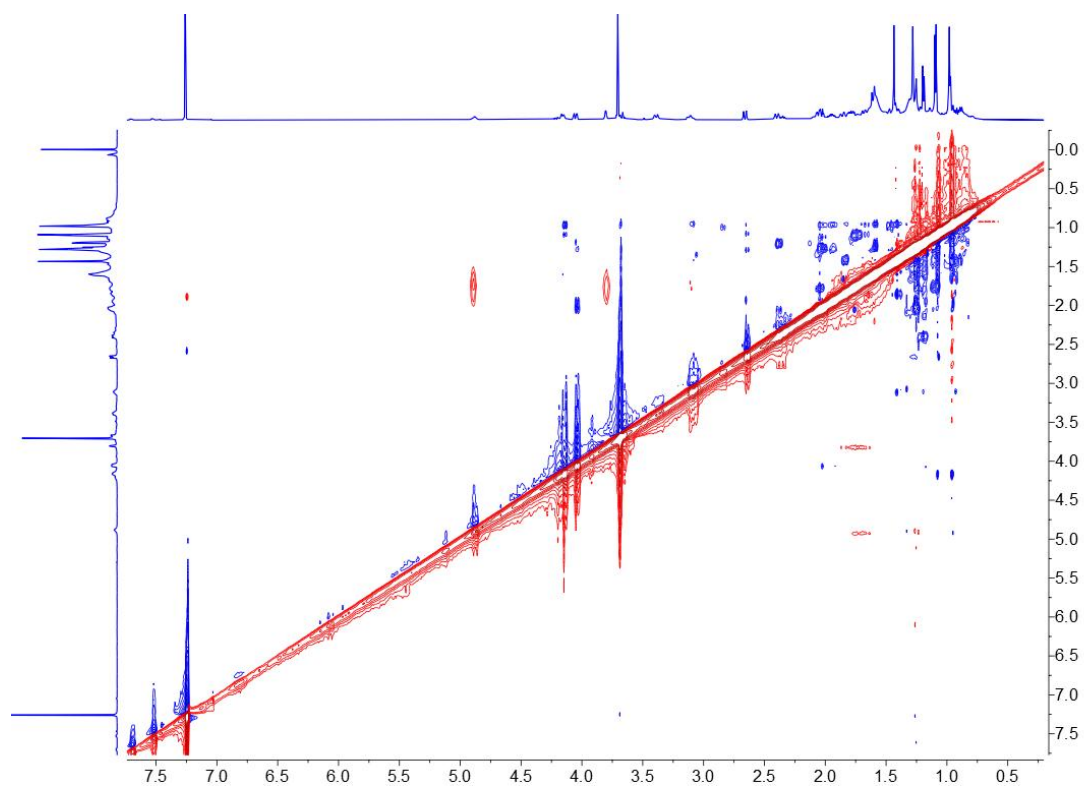
**Figure S4-5.** The  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of compound **4** (600 MHz,  $\text{CDCl}_3$ ).



**Figure S4-6.** The HSQC spectrum of compound **4** (600/151 MHz,  $\text{CDCl}_3$ ).



**Figure S4-7.** The HMBC spectrum of compound **4** (600/151 MHz,  $\text{CDCl}_3$ ).



**Figure S4-8.** The NOESY spectrum of compound **4** (600 MHz,  $\text{CDCl}_3$ ).

## 5. Spectroscopic data for compound 5

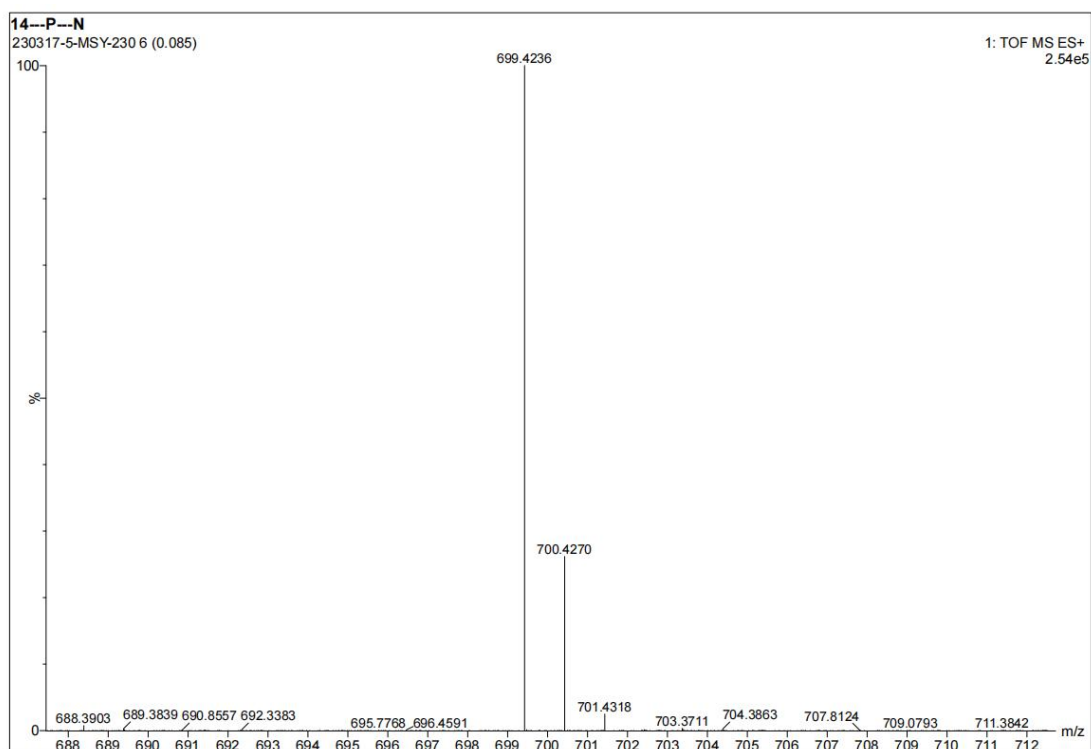


Figure S5-1. The HR-ESI-MS of compound 5.

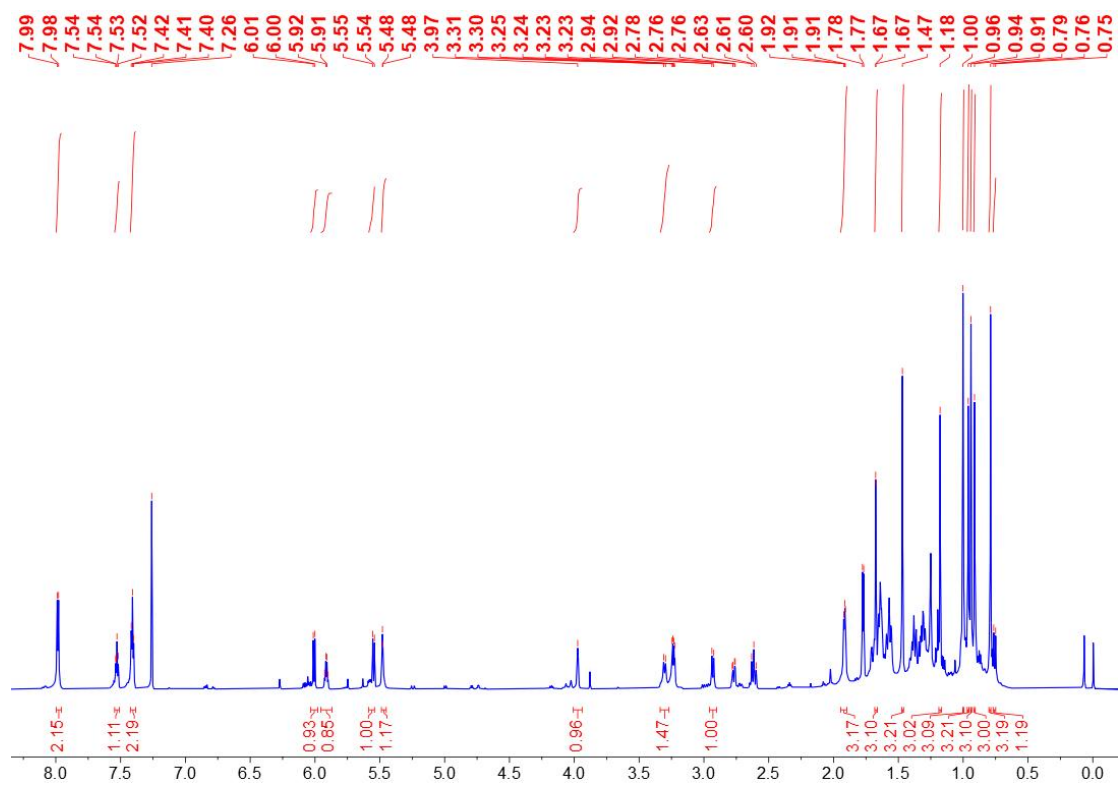
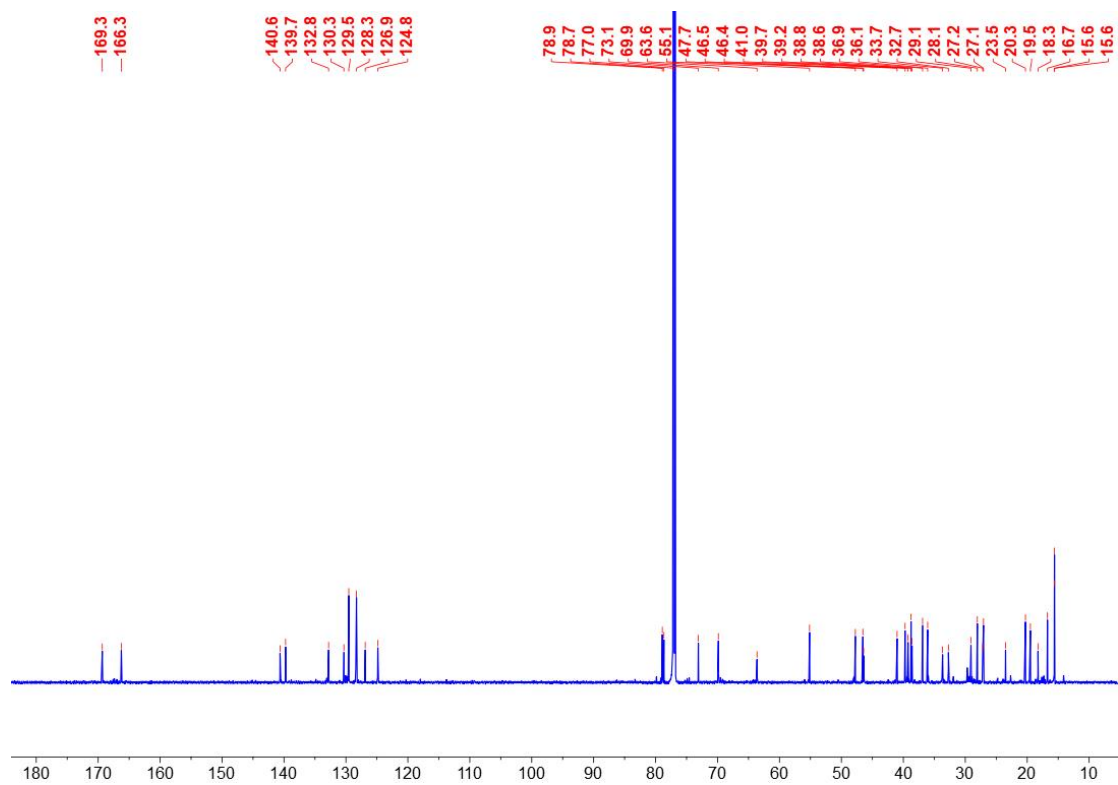
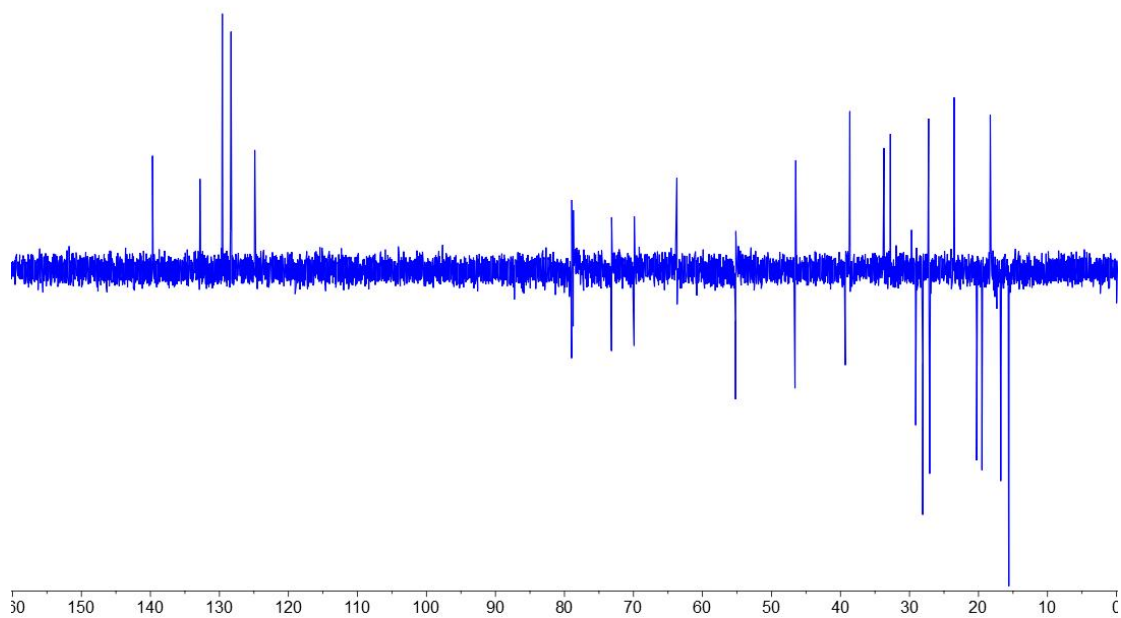


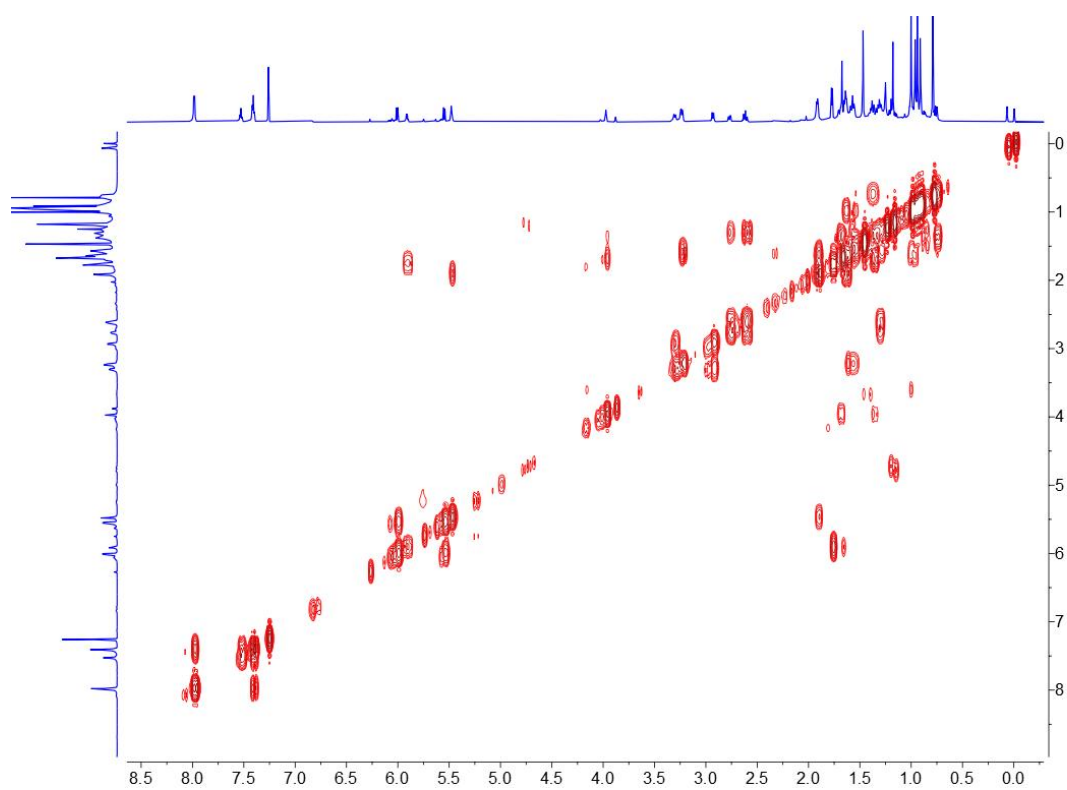
Figure S5-2. The  $^1\text{H}$  NMR spectrum of compound 5 (600 MHz,  $\text{CDCl}_3$ ).



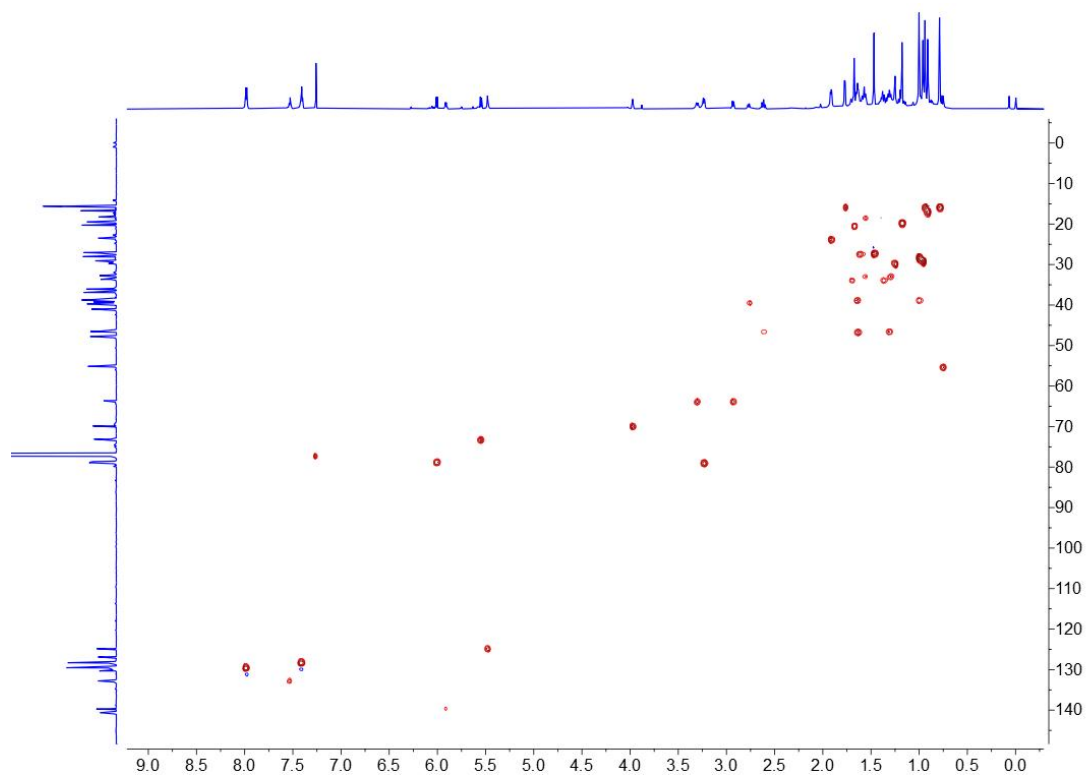
**Figure S5-3.** The  $^{13}\text{C}$  NMR spectrum of compound **5** (151 MHz,  $\text{CDCl}_3$ ).



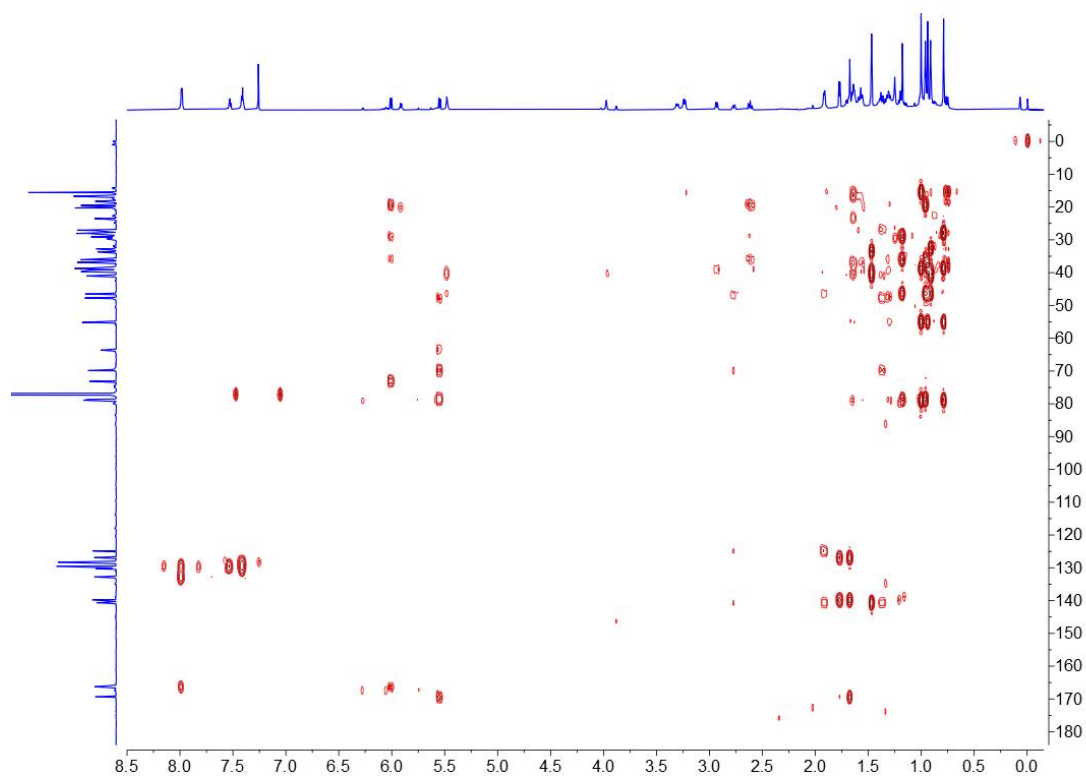
**Figure S5-4.** The DEPT 135 spectrum of compound **5** (151 MHz,  $\text{CDCl}_3$ ).



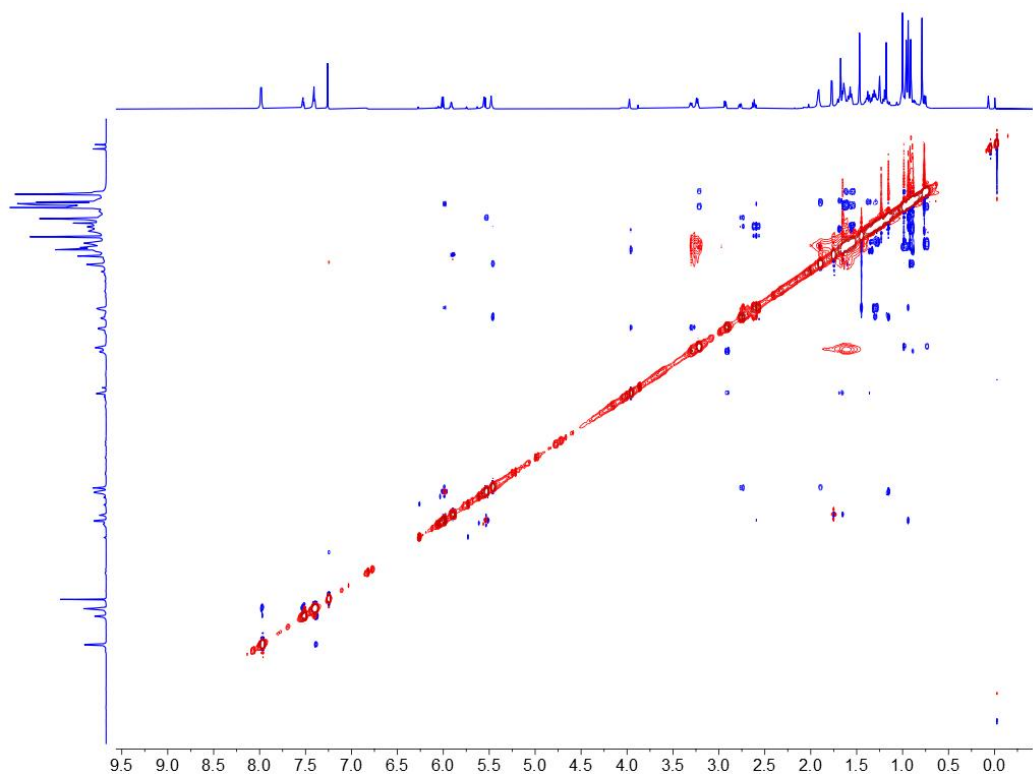
**Figure S5-5.** The  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of compound **5** (600 MHz,  $\text{CDCl}_3$ ).



**Figure S5-6.** The HSQC spectrum of compound **5** (600/151 MHz,  $\text{CDCl}_3$ ).



**Figure S5-7.** The HMBC spectrum of compound **5** (600/151 MHz,  $\text{CDCl}_3$ ).



**Figure S5-8.** The NOESY spectrum of compound **5** (600 MHz,  $\text{CDCl}_3$ ).

## 6. Spectroscopic data for compound 6

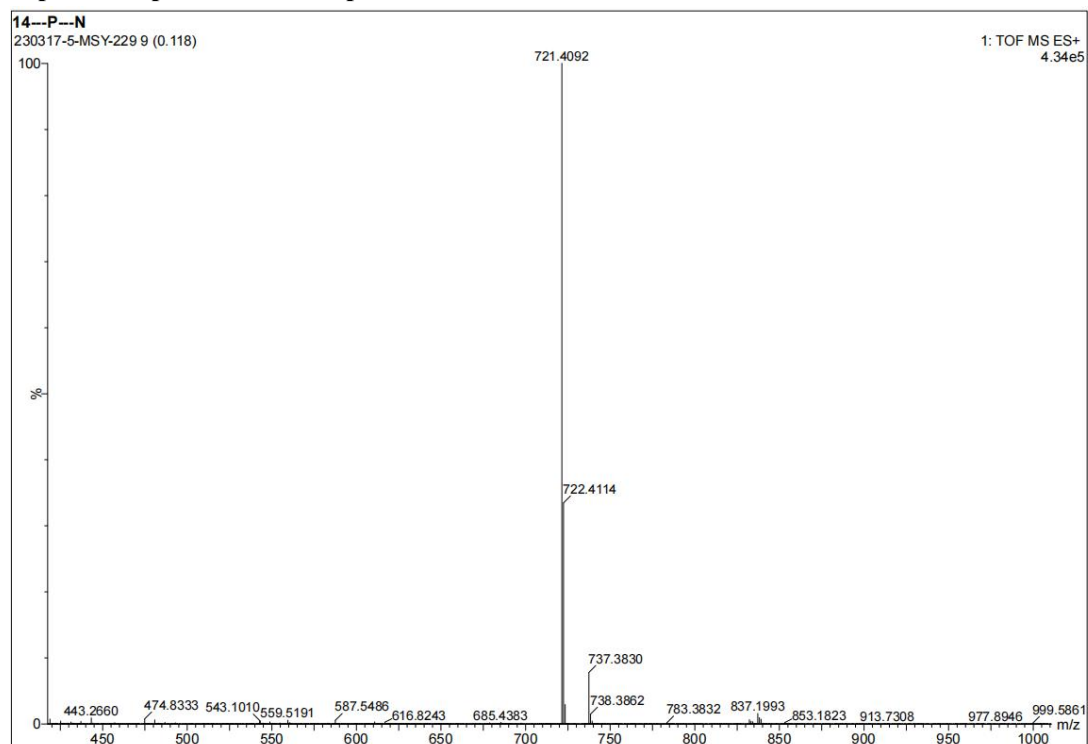


Figure S6-1. The HR-ESI-MS of compound 6.

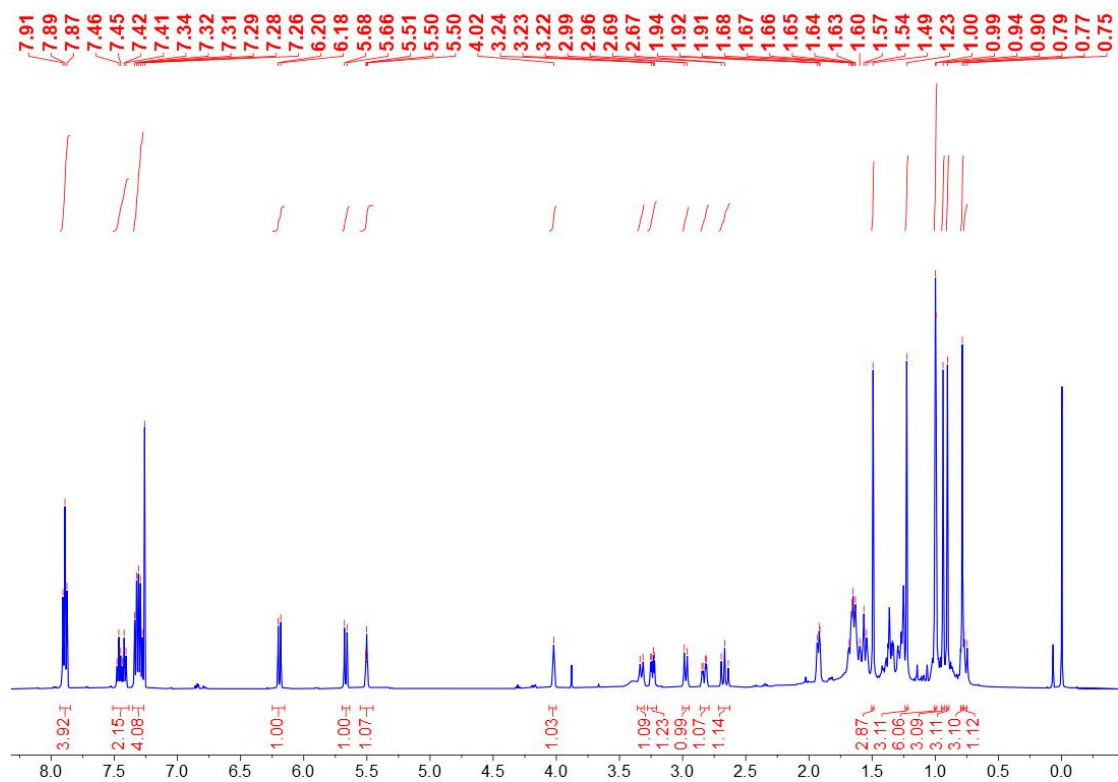
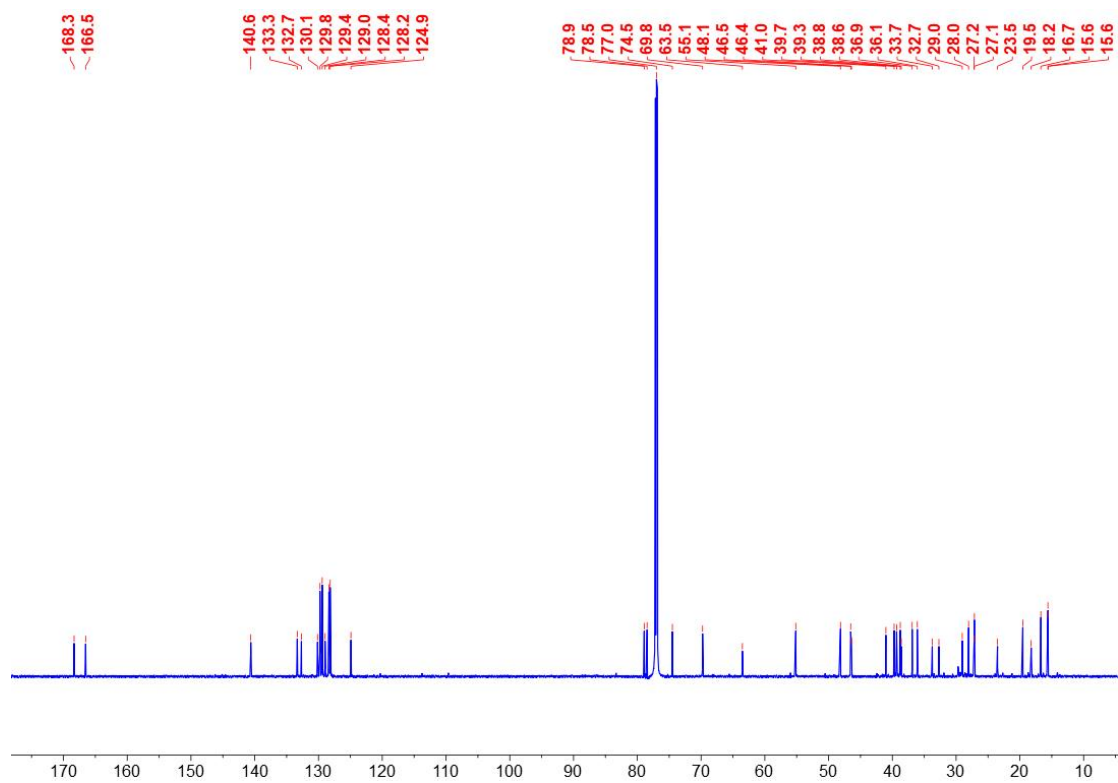
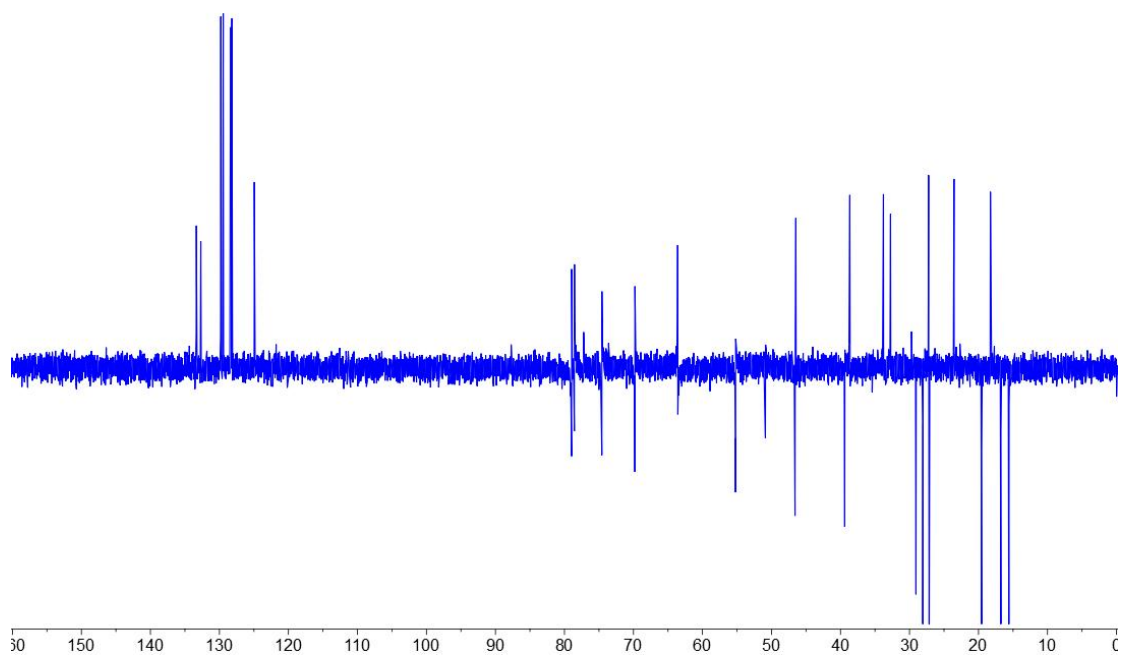


Figure S6-2. The  $^1\text{H}$  NMR spectrum of compound 6 (600 MHz,  $\text{CDCl}_3$ ).

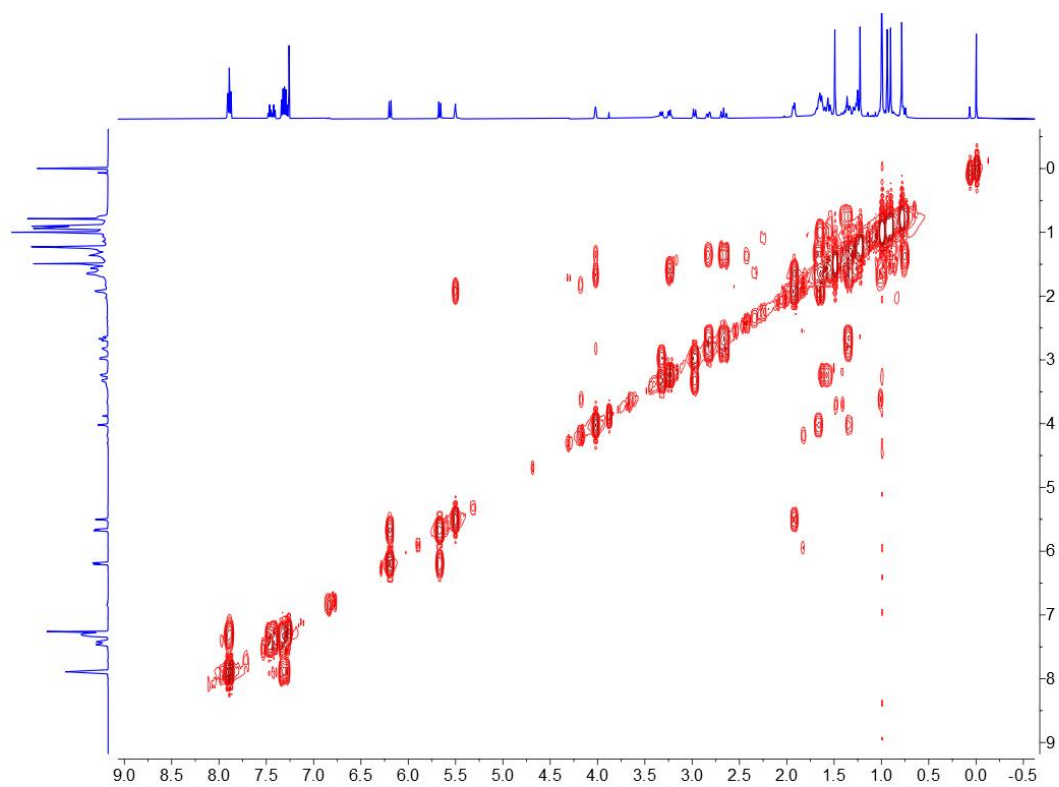


**Figure S6-3.** The  $^{13}\text{C}$  NMR spectrum of compound **6** (151 MHz,  $\text{CDCl}_3$ ).

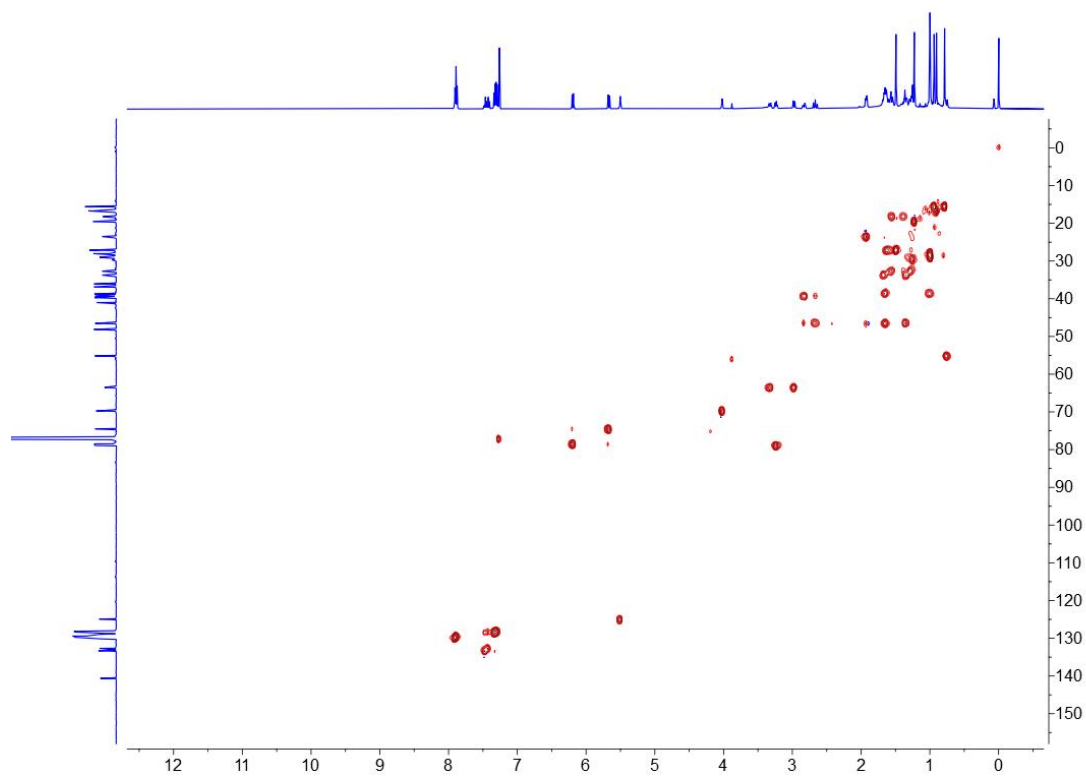


**Figure S6-4.** The DEPT 135 spectrum of compound **6** (151 MHz,  $\text{CDCl}_3$ ).

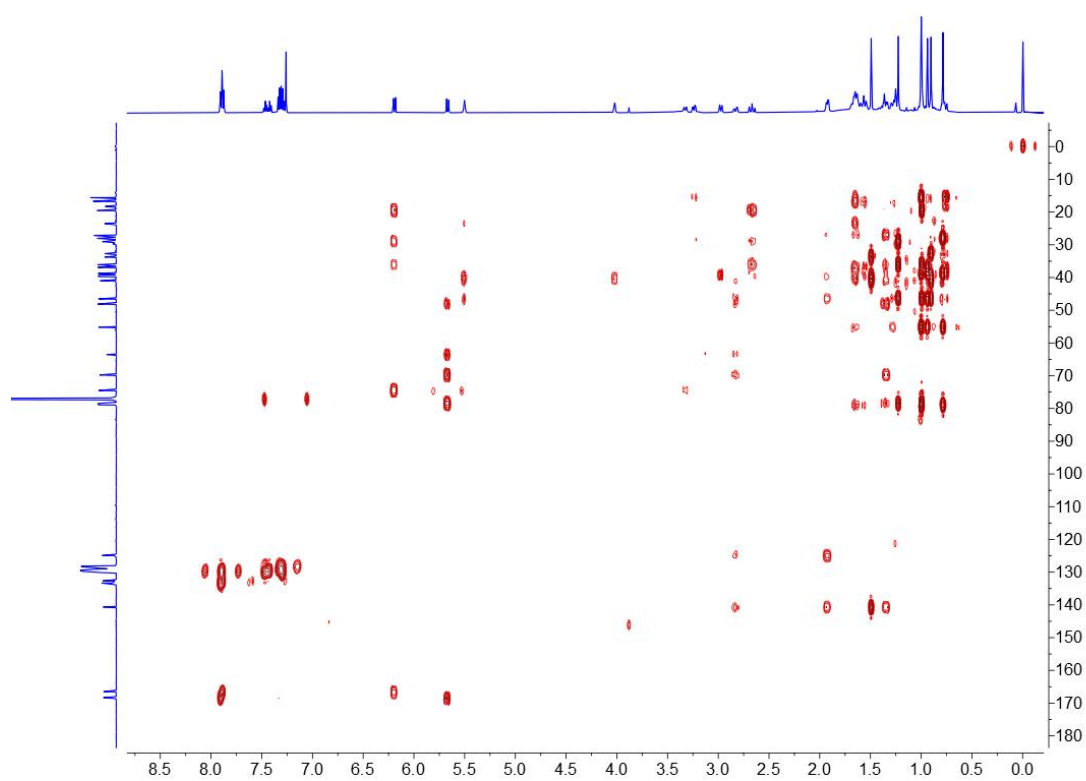




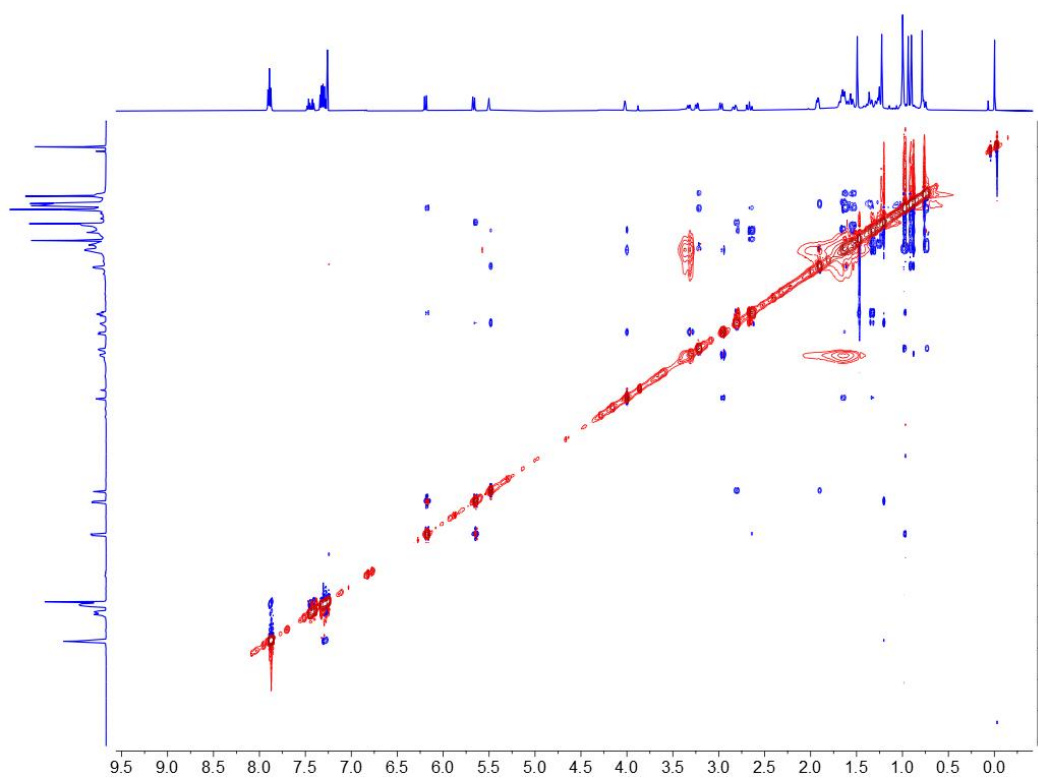
**Figure S6-5.** The  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of compound **6** (600 MHz,  $\text{CDCl}_3$ ).



**Figure S6-6.** The HSQC spectrum of compound **6** (600/151 MHz,  $\text{CDCl}_3$ ).



**Figure S6-7.** The HMBC spectrum of compound **6** (600/151 MHz,  $\text{CDCl}_3$ ).



**Figure S6-8.** The NOESY spectrum of compound **6** (600 MHz,  $\text{CDCl}_3$ ).

## 7. Spectroscopic data for compound 7

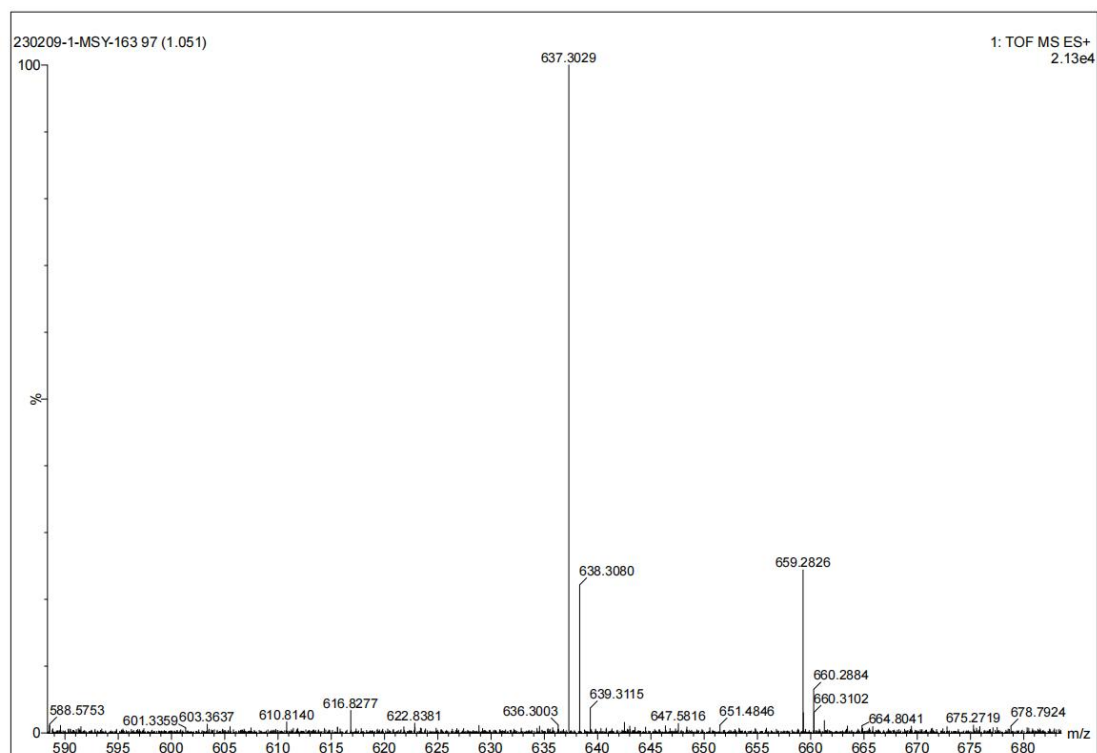


Figure S7-1. The HR-ESI-MS spectrum of compound 7.

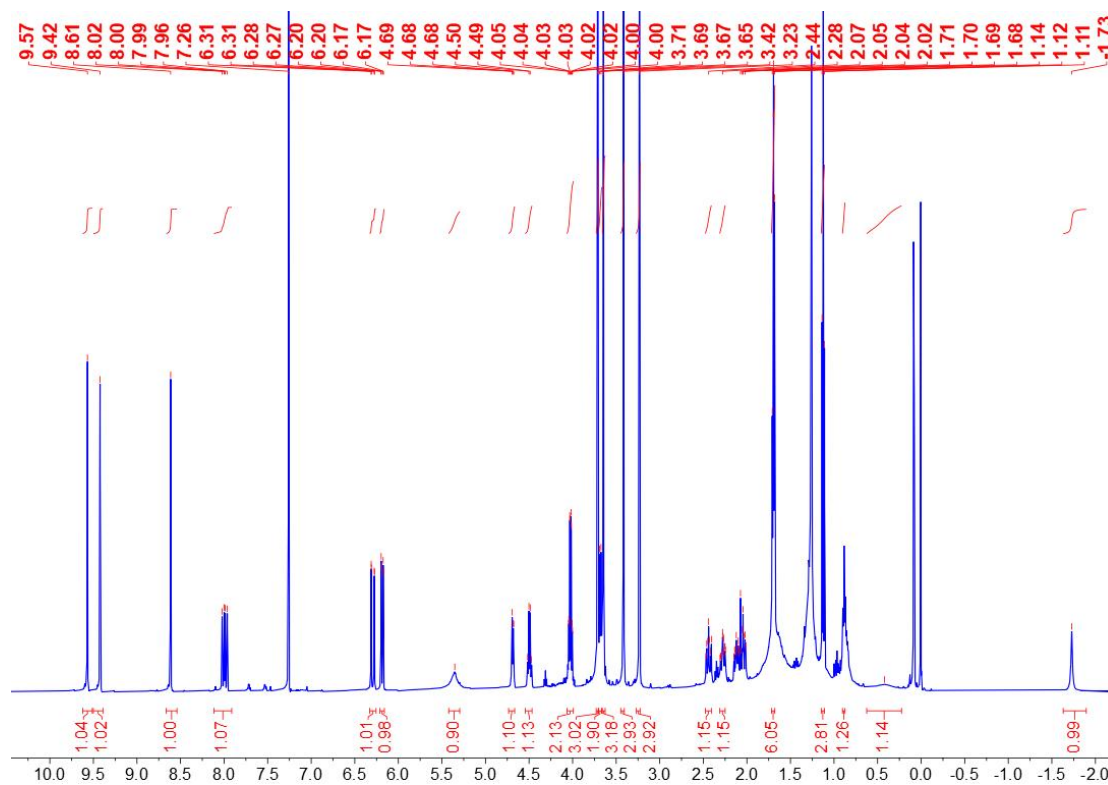
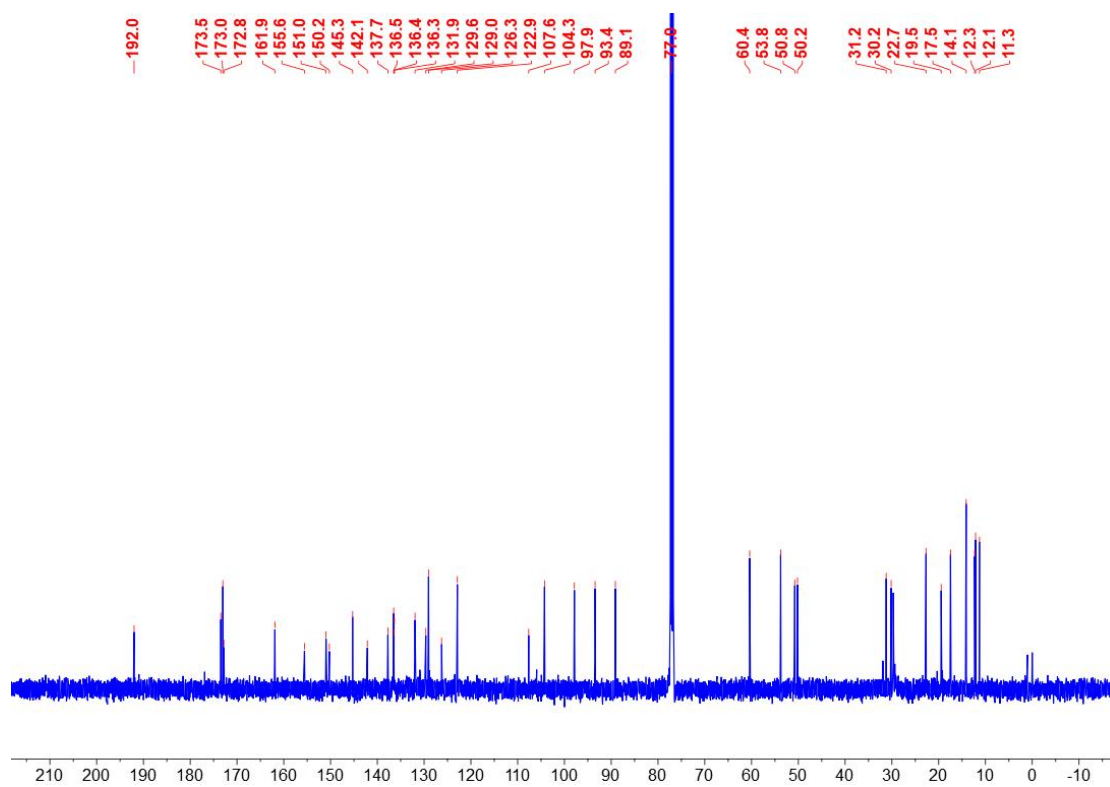
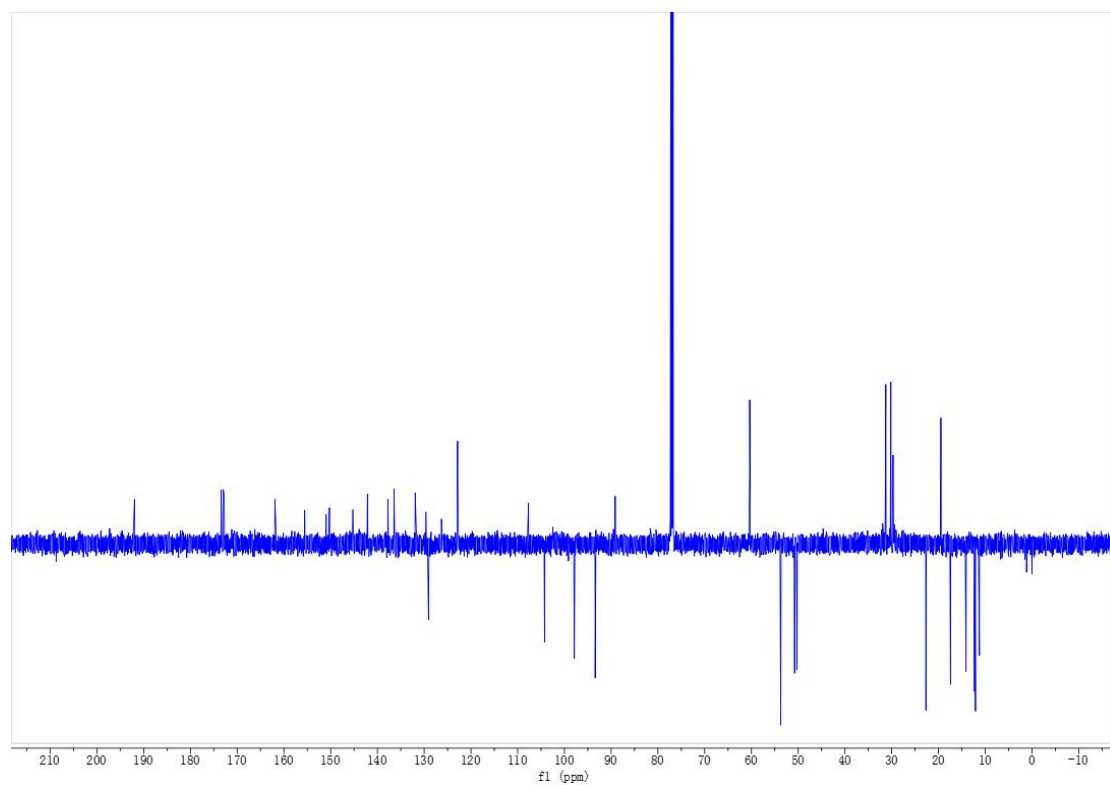


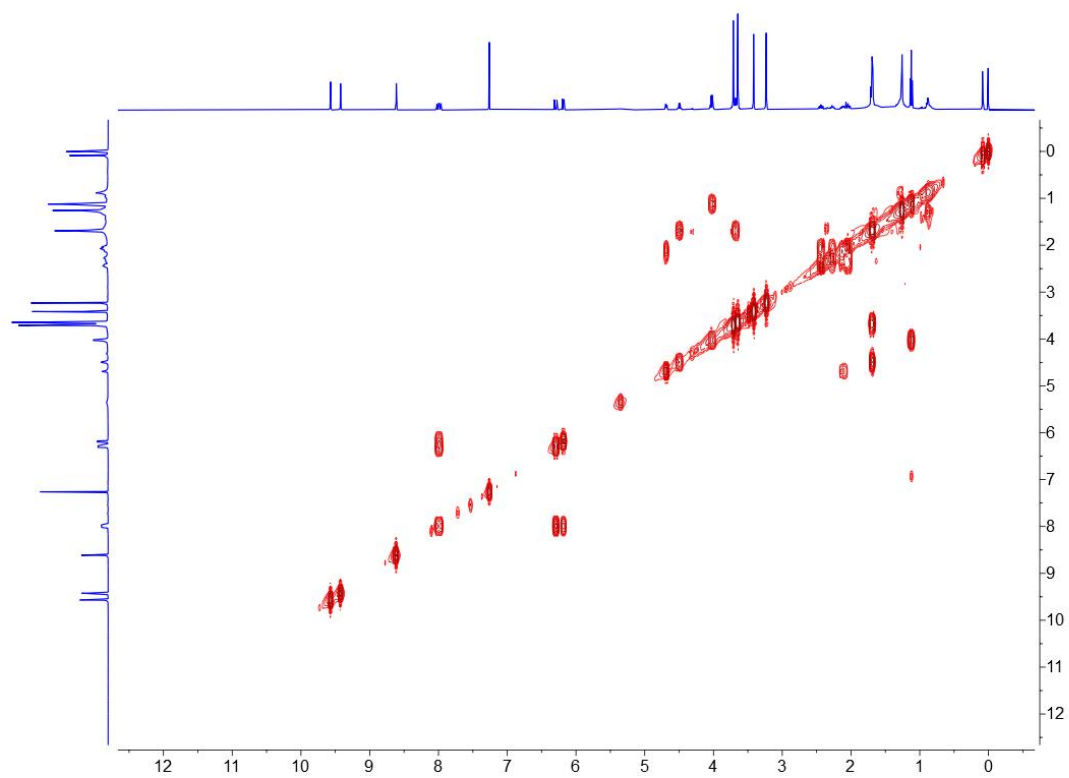
Figure S7-2. The  $^1\text{H}$  NMR spectrum of compound 7 (600 MHz,  $\text{CDCl}_3$ ).



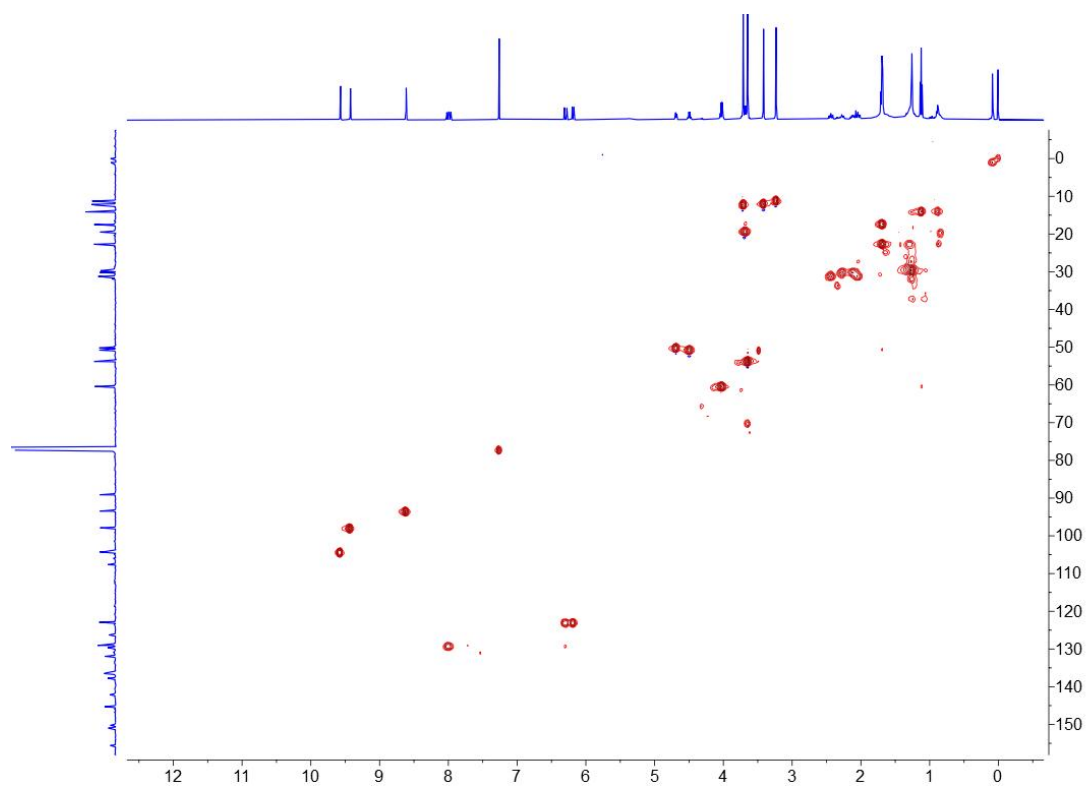
**Figure S7-3.** The  $^{13}\text{C}$  NMR spectrum of compound **7** (151 MHz,  $\text{CDCl}_3$ ).



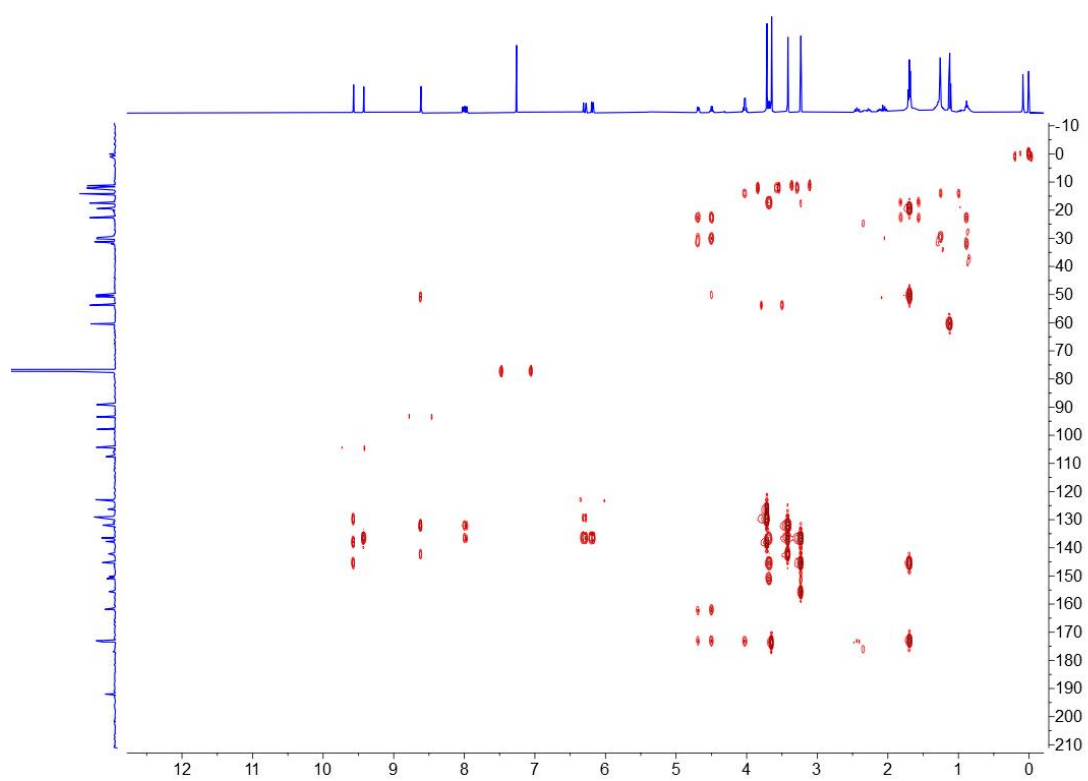
**Figure S7-4.** The DEPT 135 spectrum of compound **7** (151 MHz,  $\text{CDCl}_3$ ).



**Figure S7-5.** The  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of compound **7** (600 MHz,  $\text{CDCl}_3$ ).



**Figure S7-6.** The HSQC spectrum of compound **7** (600/151 MHz,  $\text{CDCl}_3$ )



**Figure S7-7.** The HMBC spectrum of compound **7** (600/151 MHz,  $\text{CDCl}_3$ )

8.

## Spectroscopic data for compound **8**

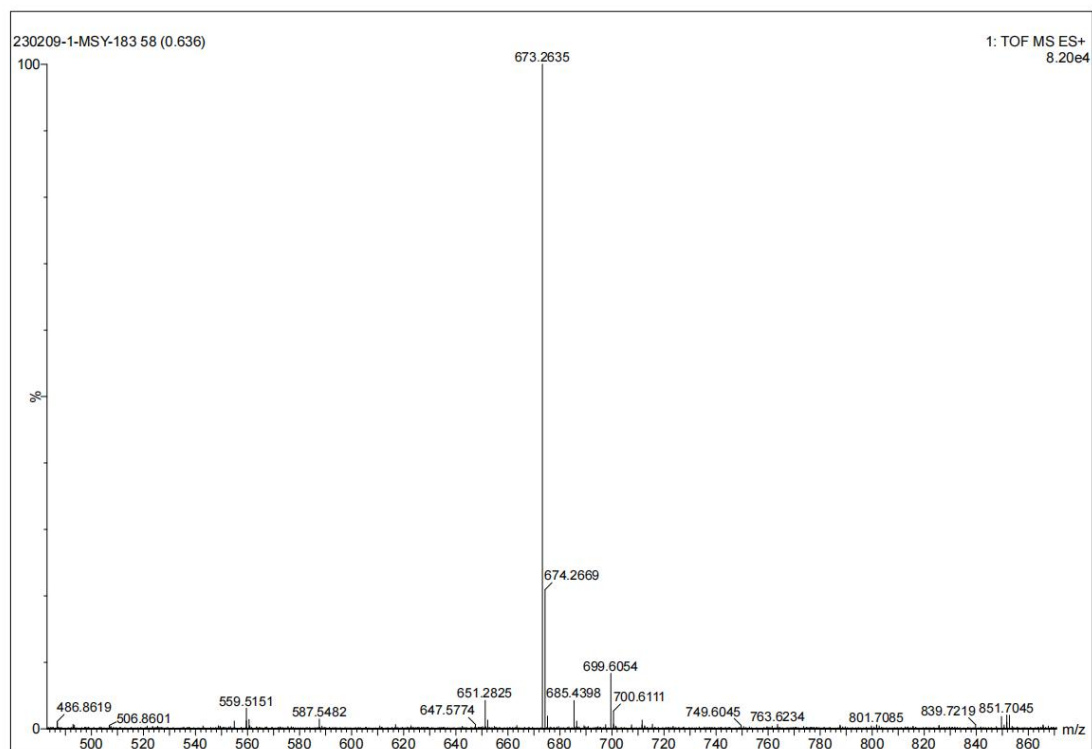


Figure S8-1. The HR-ESI-MS spectrum of compound **8**.

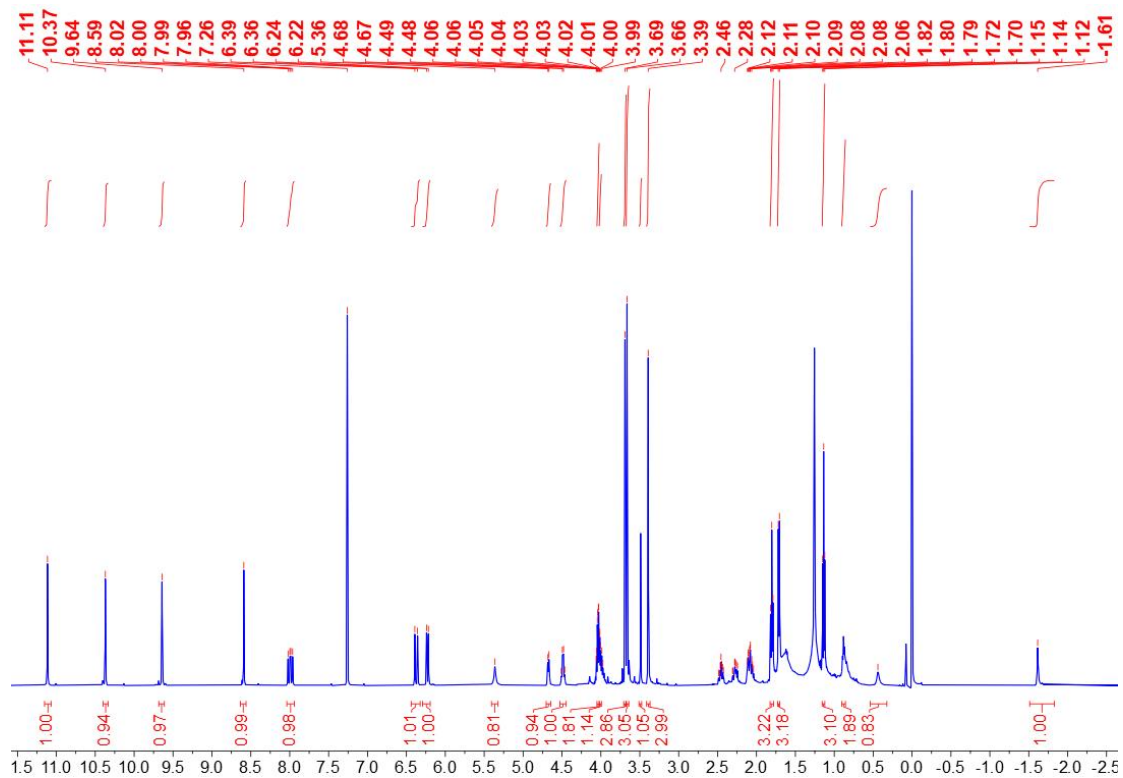
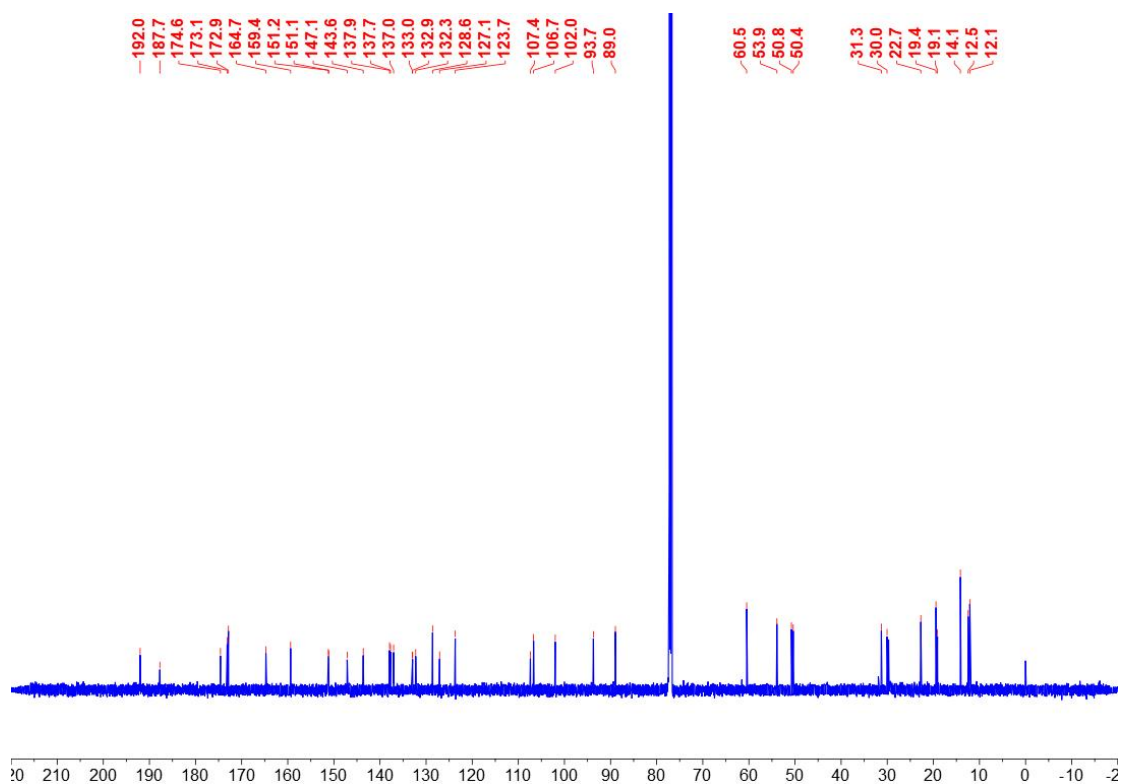
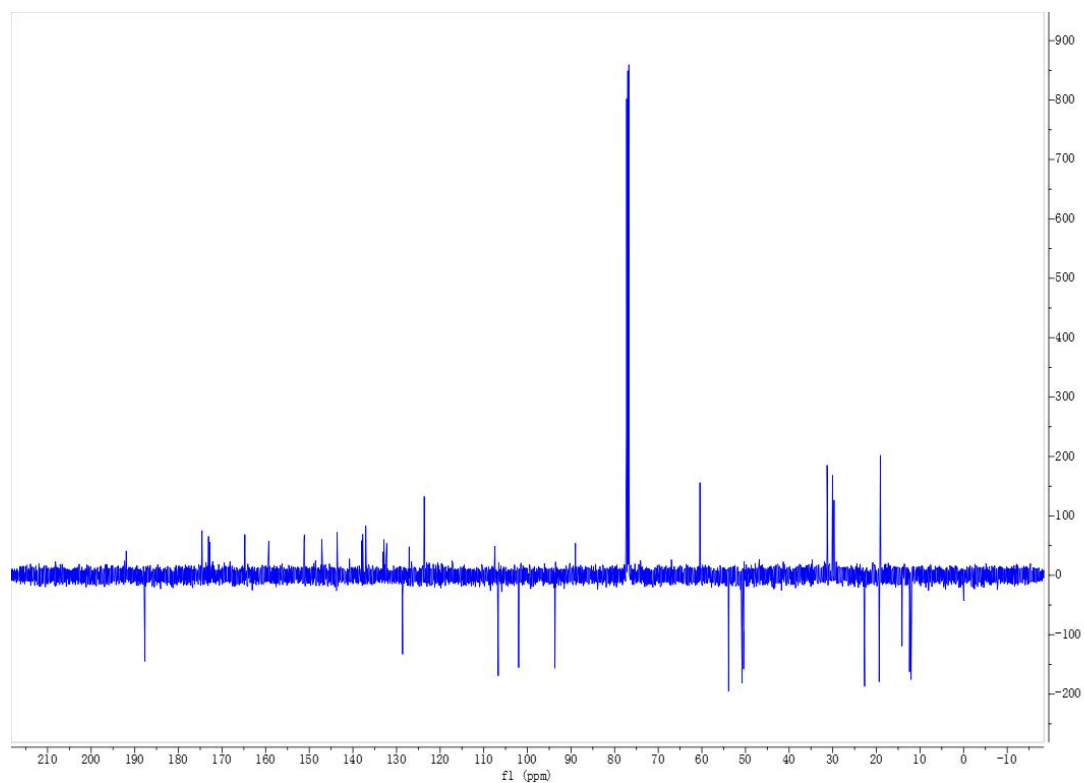


Figure S8-2. The  $^1\text{H}$  NMR spectrum of compound **8** (600 MHz,  $\text{CDCl}_3$ ).

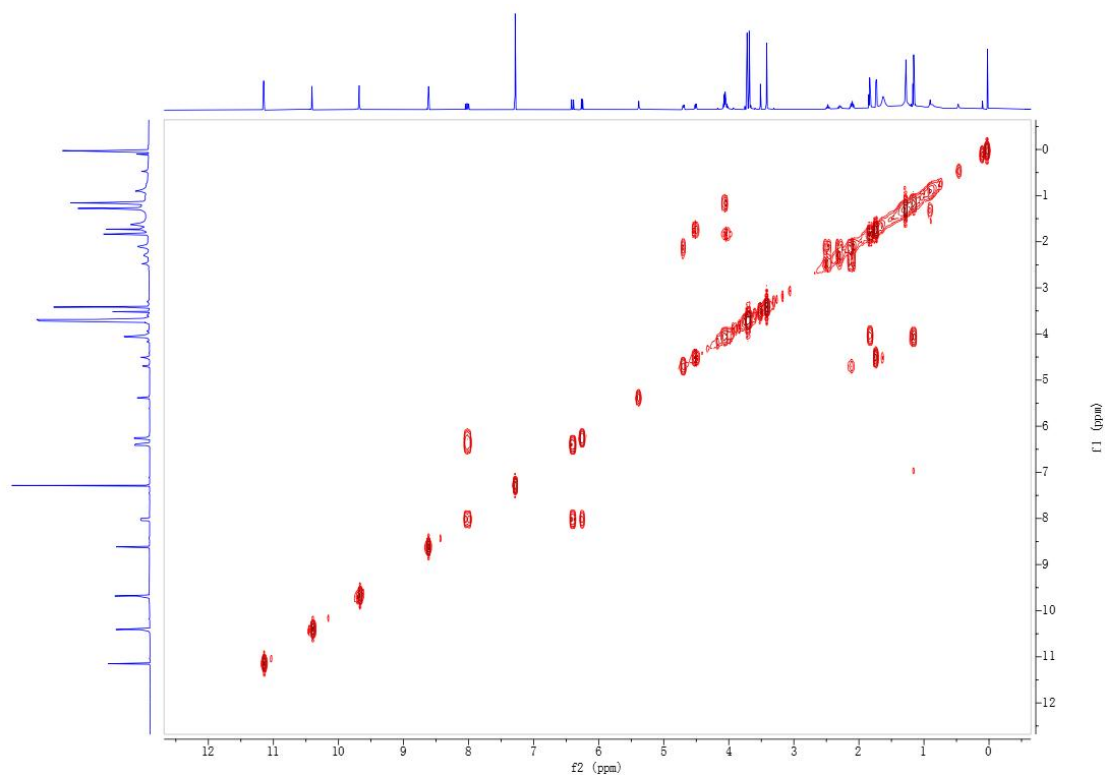


**Figure S8-3.** The  $^{13}\text{C}$  NMR spectrum of compound **8** (151 MHz,  $\text{CDCl}_3$ ).

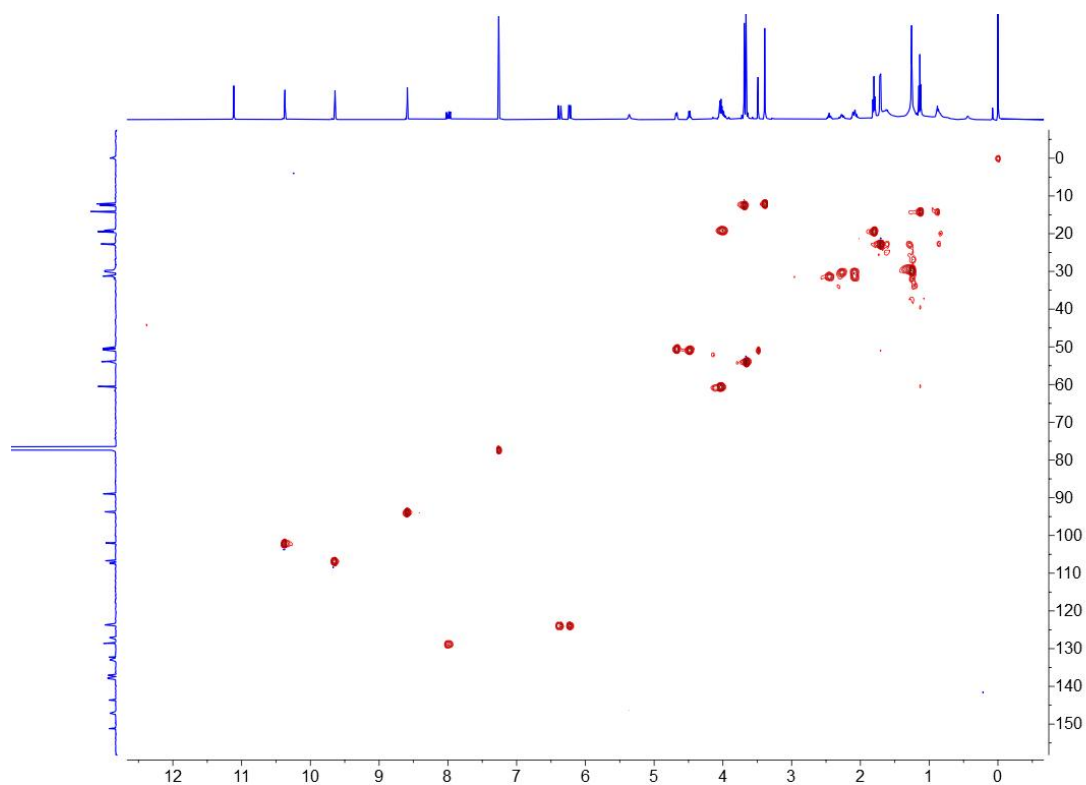


**Figure S8-4.** The DEPT 135 spectrum of compound **8** (151 MHz,  $\text{CDCl}_3$ ).

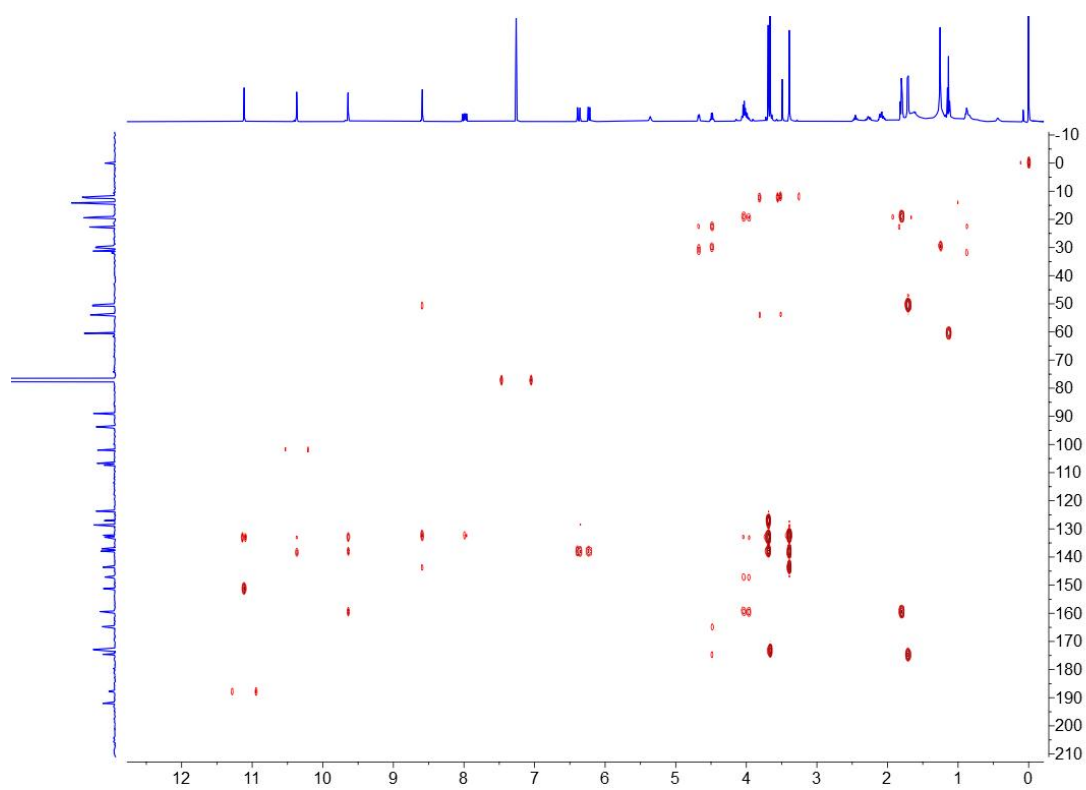




**Figure S8-5.** The  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of compound **8** (600 MHz,  $\text{CDCl}_3$ ).



**Figure S8-6.** The HSQC spectrum of compound **8** (600/151 MHz,  $\text{CDCl}_3$ ).



**Figure S8-7.** The HMBC spectrum of compound **8** (600/151 MHz,  $\text{CDCl}_3$ ).

9.

## Spectroscopic data for compound 9

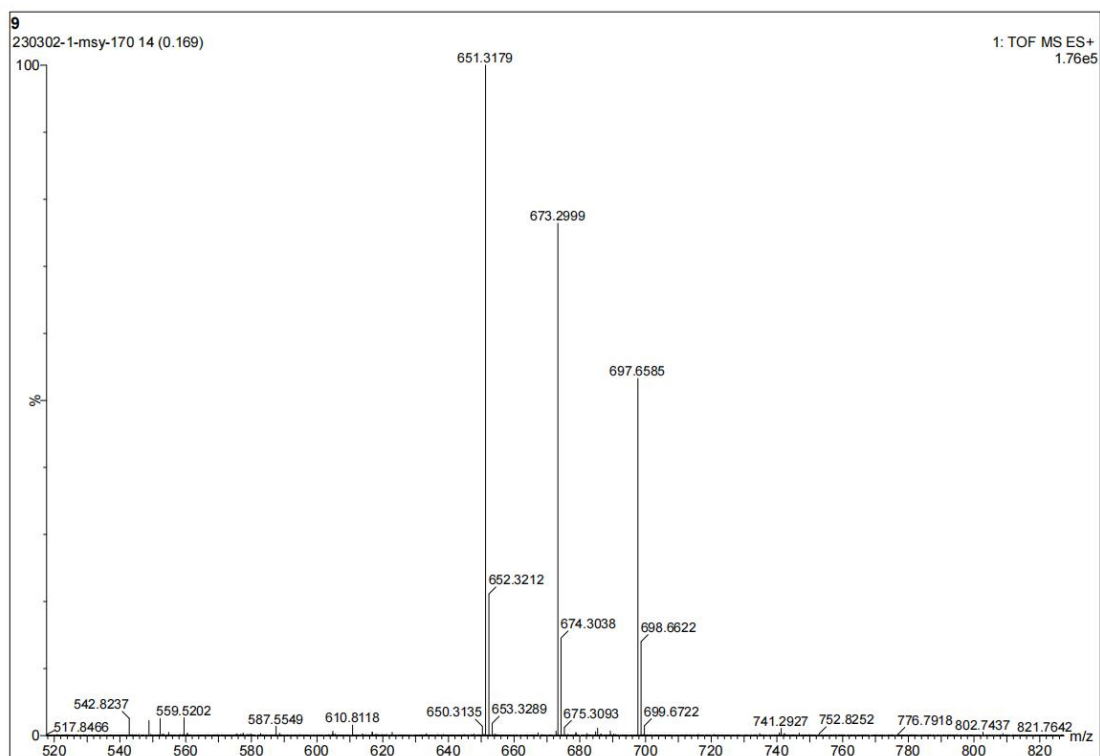


Figure S9-1. The HR-ESI-MS spectrum of compound 9.

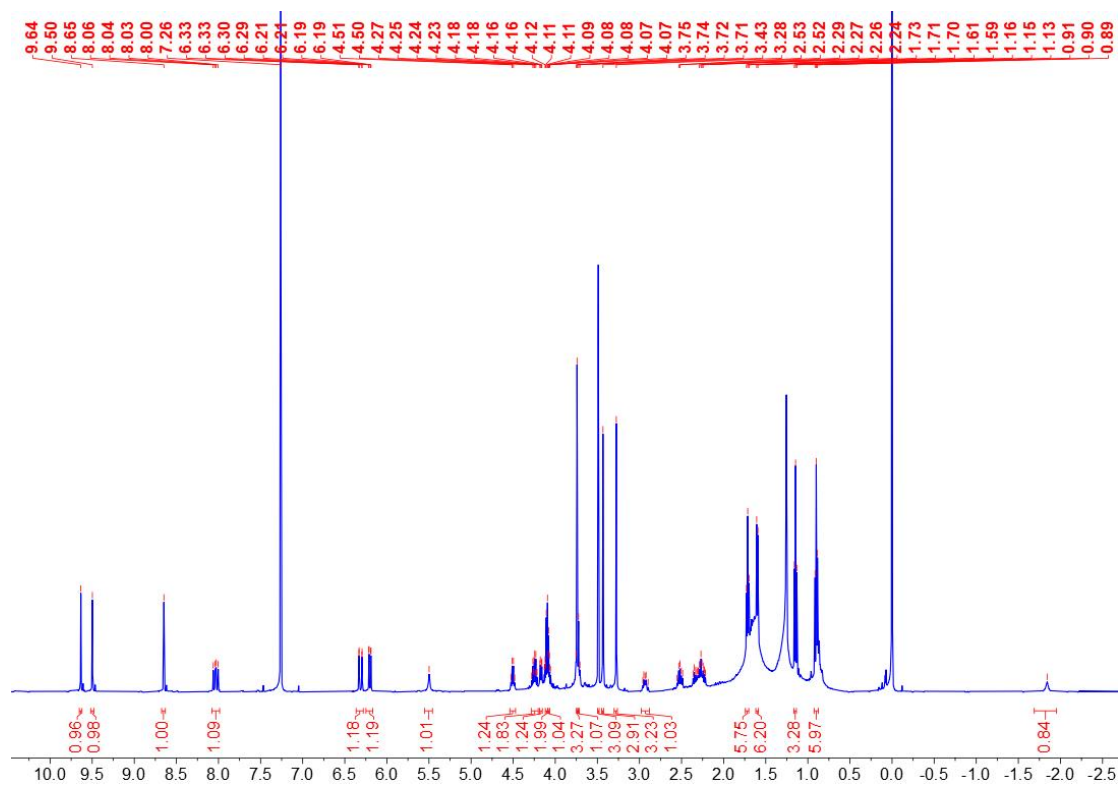
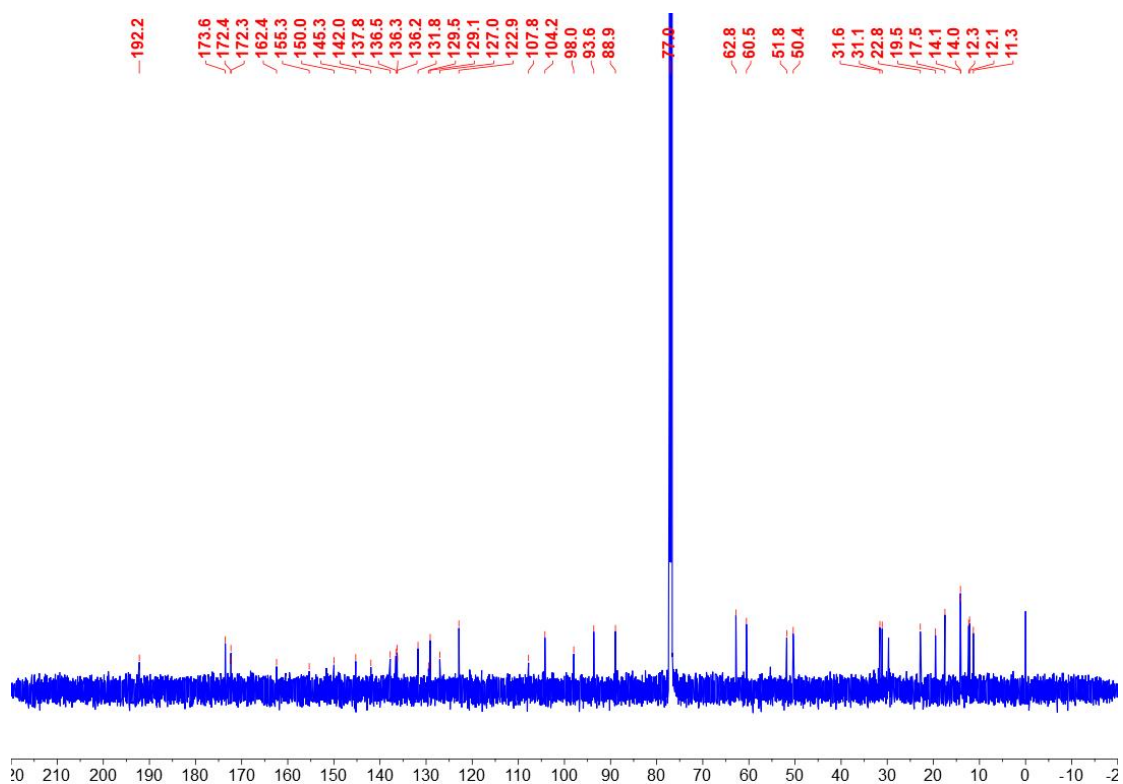
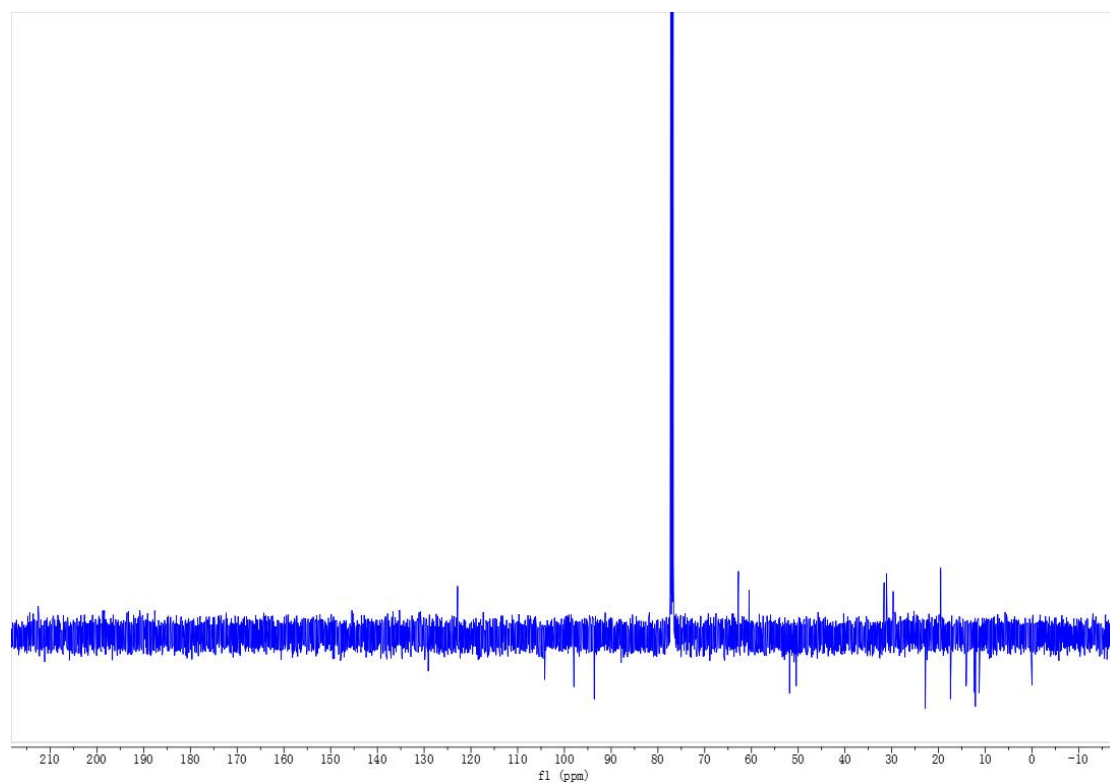


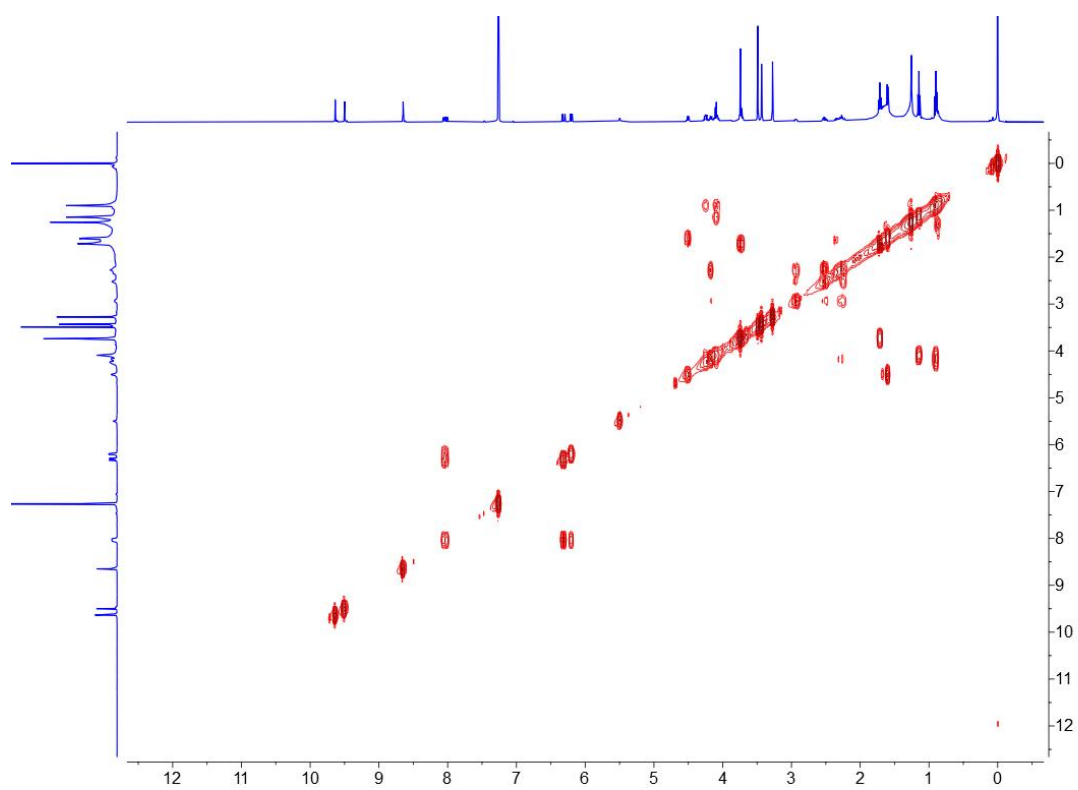
Figure S9-2. The  $^1\text{H}$  NMR spectrum of compound 9 (600 MHz,  $\text{CDCl}_3$ ).



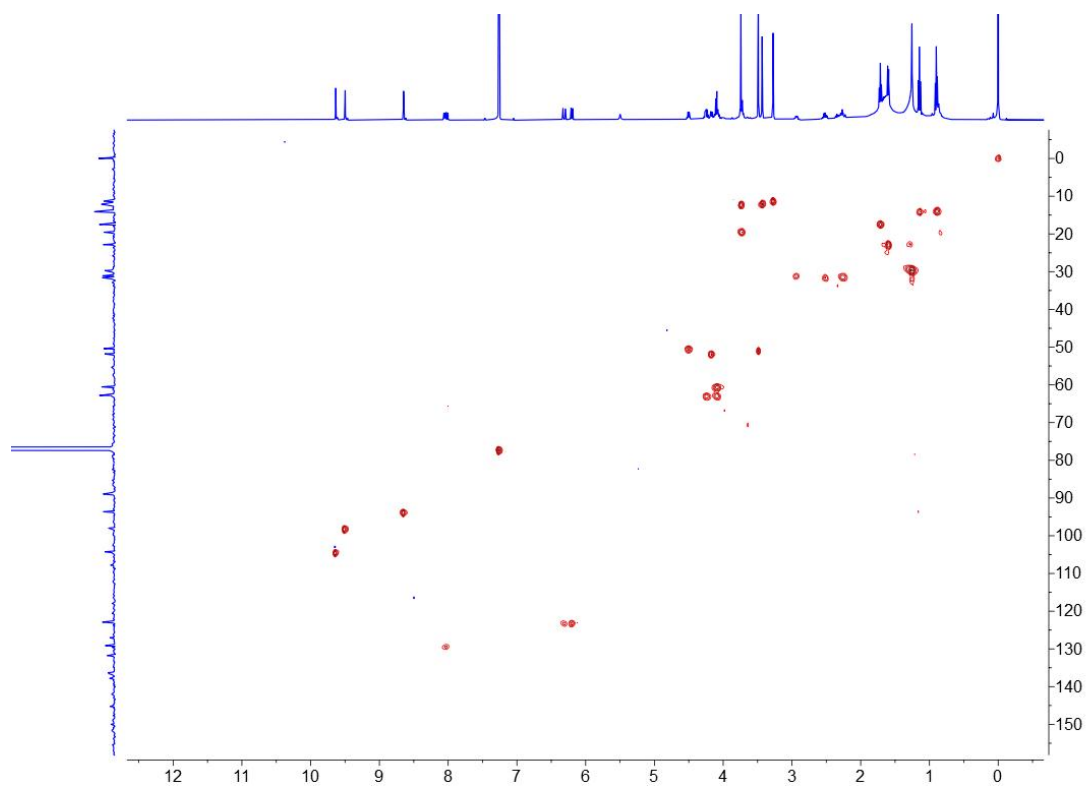
**Figure S9-3.** The  $^{13}\text{C}$  NMR spectrum of compound **9** (151 MHz,  $\text{CDCl}_3$ ).



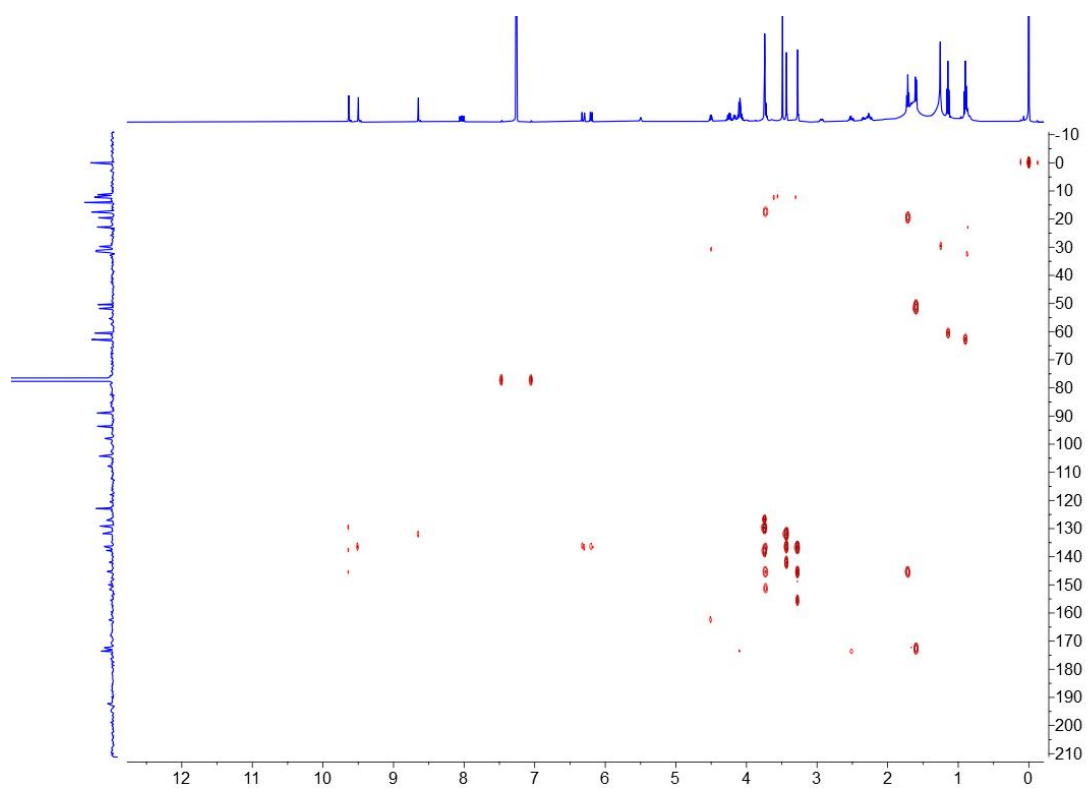
**Figure S9-4.** The DEPT 135 spectrum of compound **9** (151 MHz,  $\text{CDCl}_3$ ).



**Figure S9-5.** The  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of compound **9** (600 MHz,  $\text{CDCl}_3$ ).



**Figure S9-6.** The HSQC spectrum of compound **9** (600/151 MHz,  $\text{CDCl}_3$ ).



**Figure S9-7.** The HMBC spectrum of compound **9** (600/151 MHz,  $\text{CDCl}_3$ ).

10.

## Spectroscopic data for compound 10

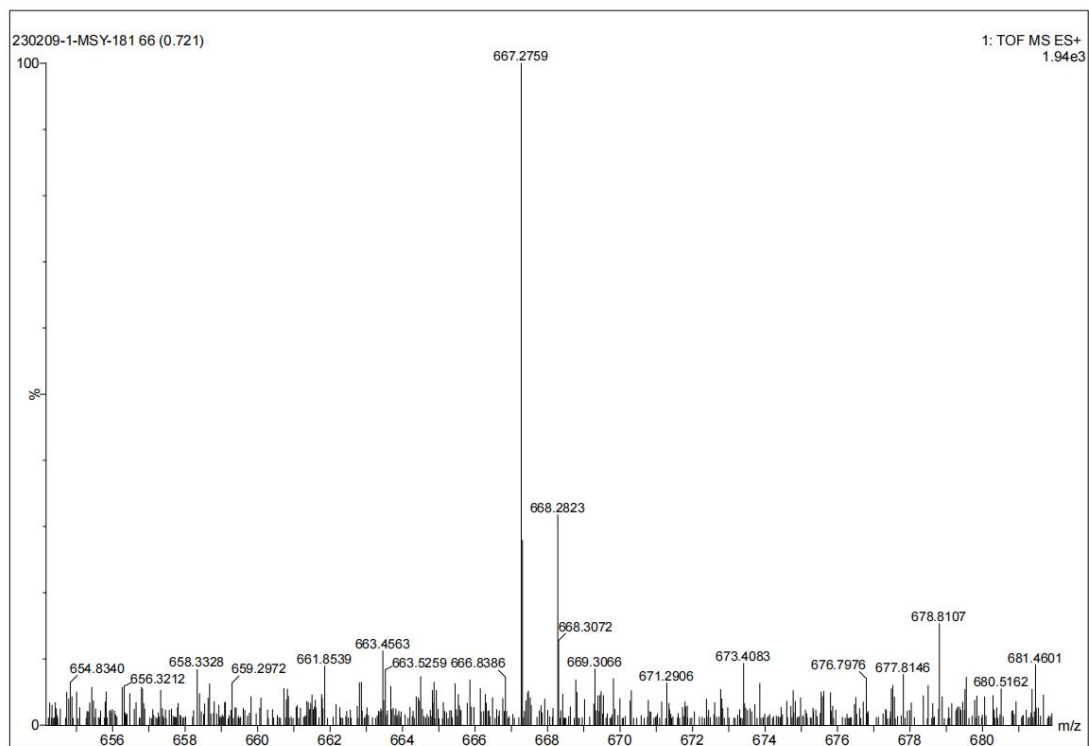


Figure S10-1. The HR-ESI-MS spectrum of compound 10.

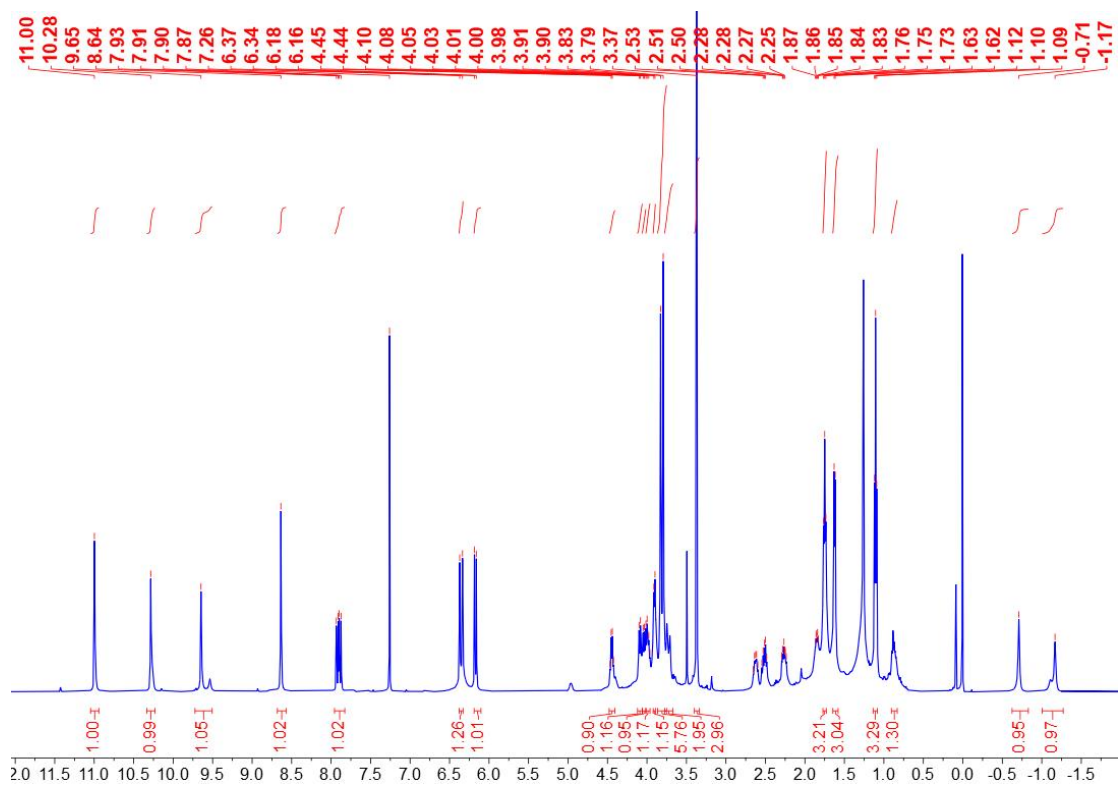
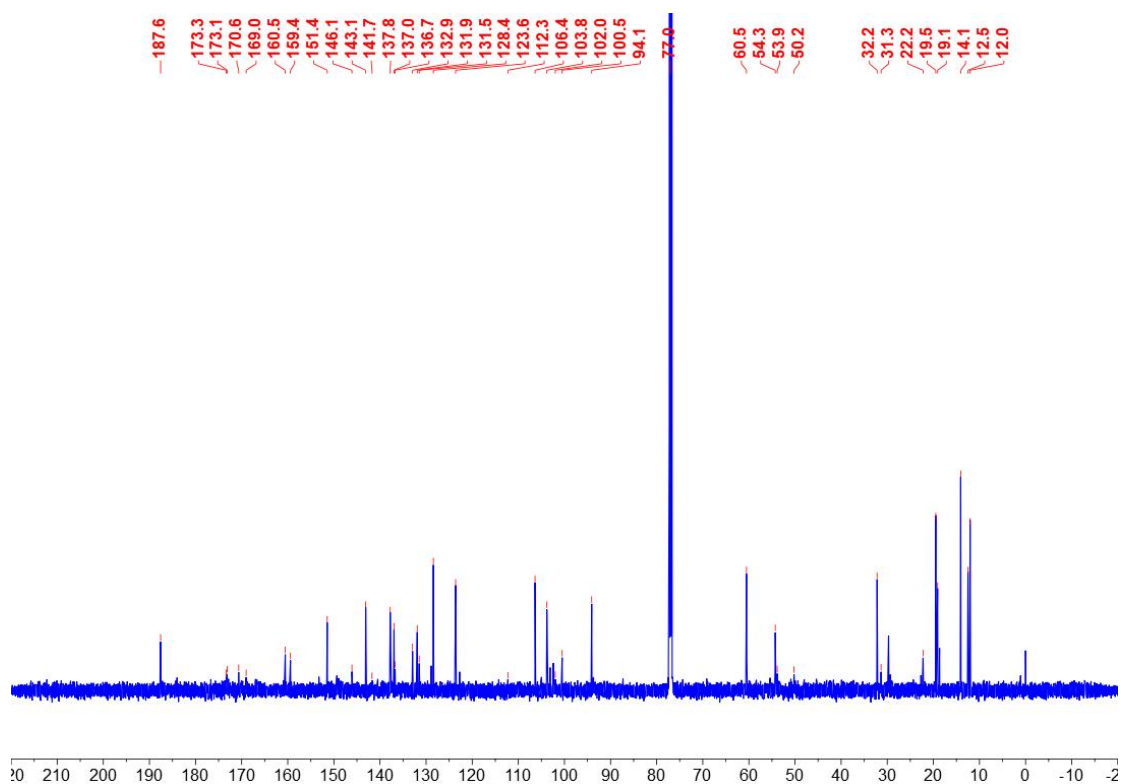
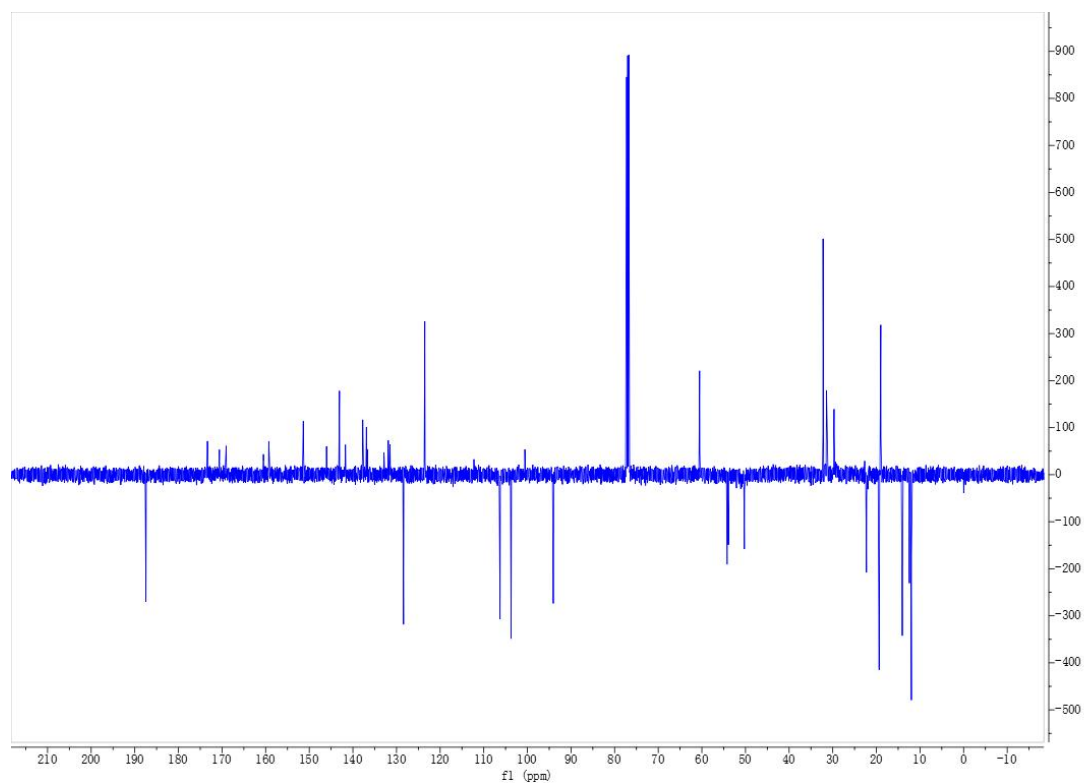


Figure S10-2. The  $^1\text{H}$  NMR spectrum of compound 10 (600 MHz,  $\text{CDCl}_3$ ).

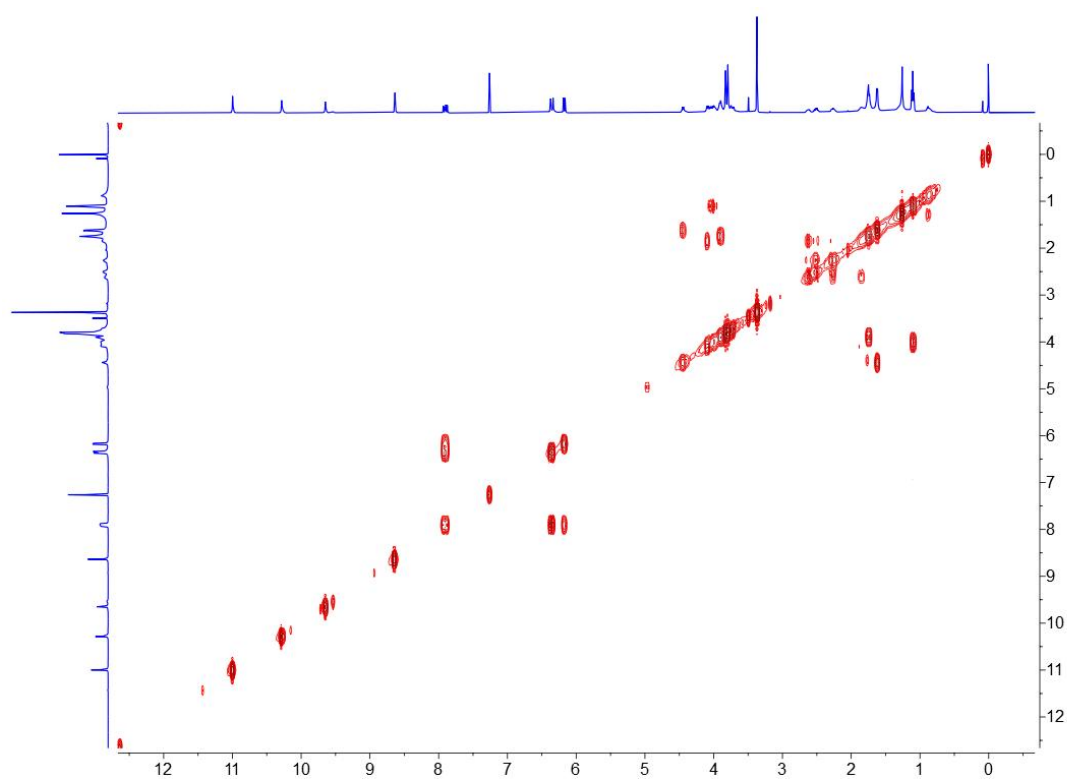


**Figure S10-3.** The  $^{13}\text{C}$  NMR spectrum of compound **10** (151 MHz,  $\text{CDCl}_3$ ).

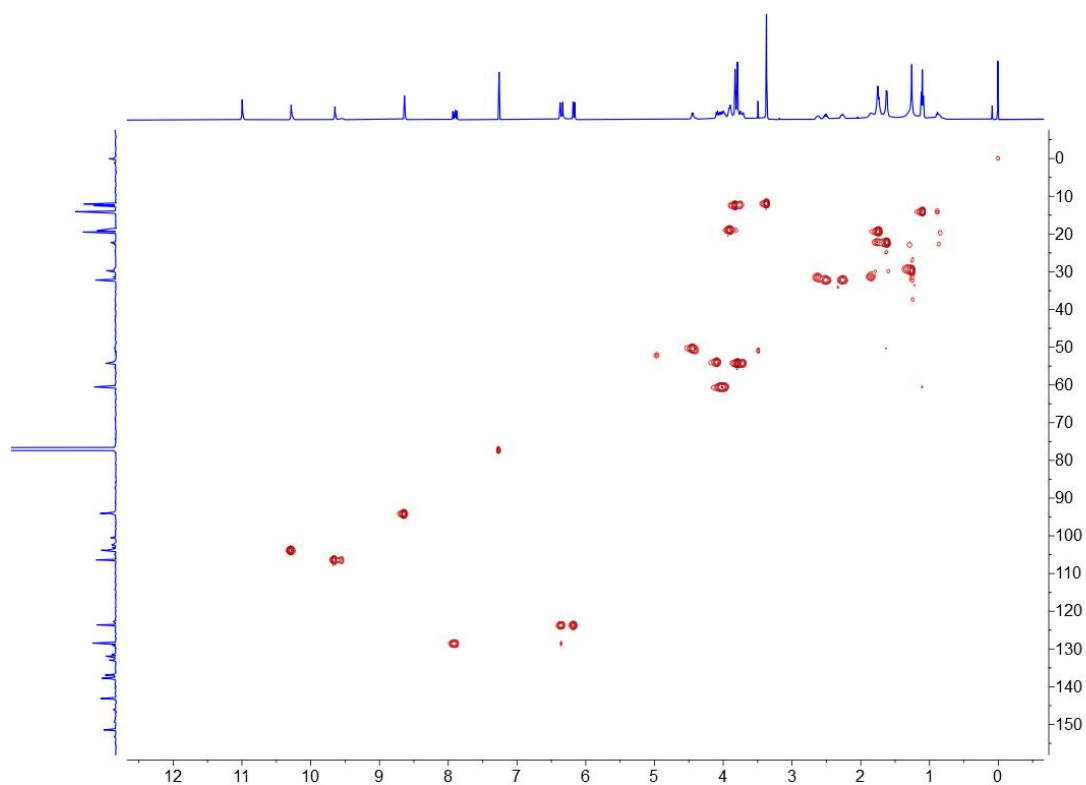


**Figure S10-4.** The DEPT 135 spectrum of compound **10** (151 MHz,  $\text{CDCl}_3$ ).

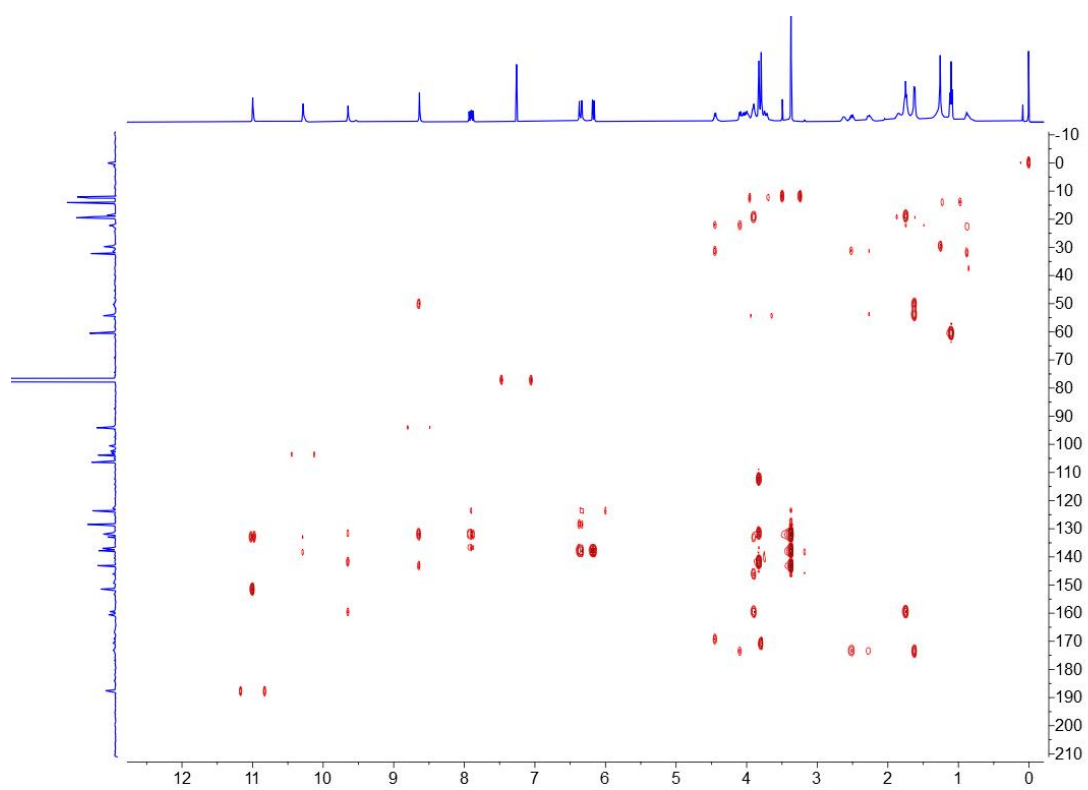




**Figure S10-5.** The  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of compound **10** (600 MHz,  $\text{CDCl}_3$ ).



**Figure S10-6.** The HSQC spectrum of compound **10** (600/151 MHz,  $\text{CDCl}_3$ ).



**Figure S10-7.** The HMBC spectrum of compound **10** (600/151 MHz,  $\text{CDCl}_3$ ).

## 11. The scheme of extraction and isolation

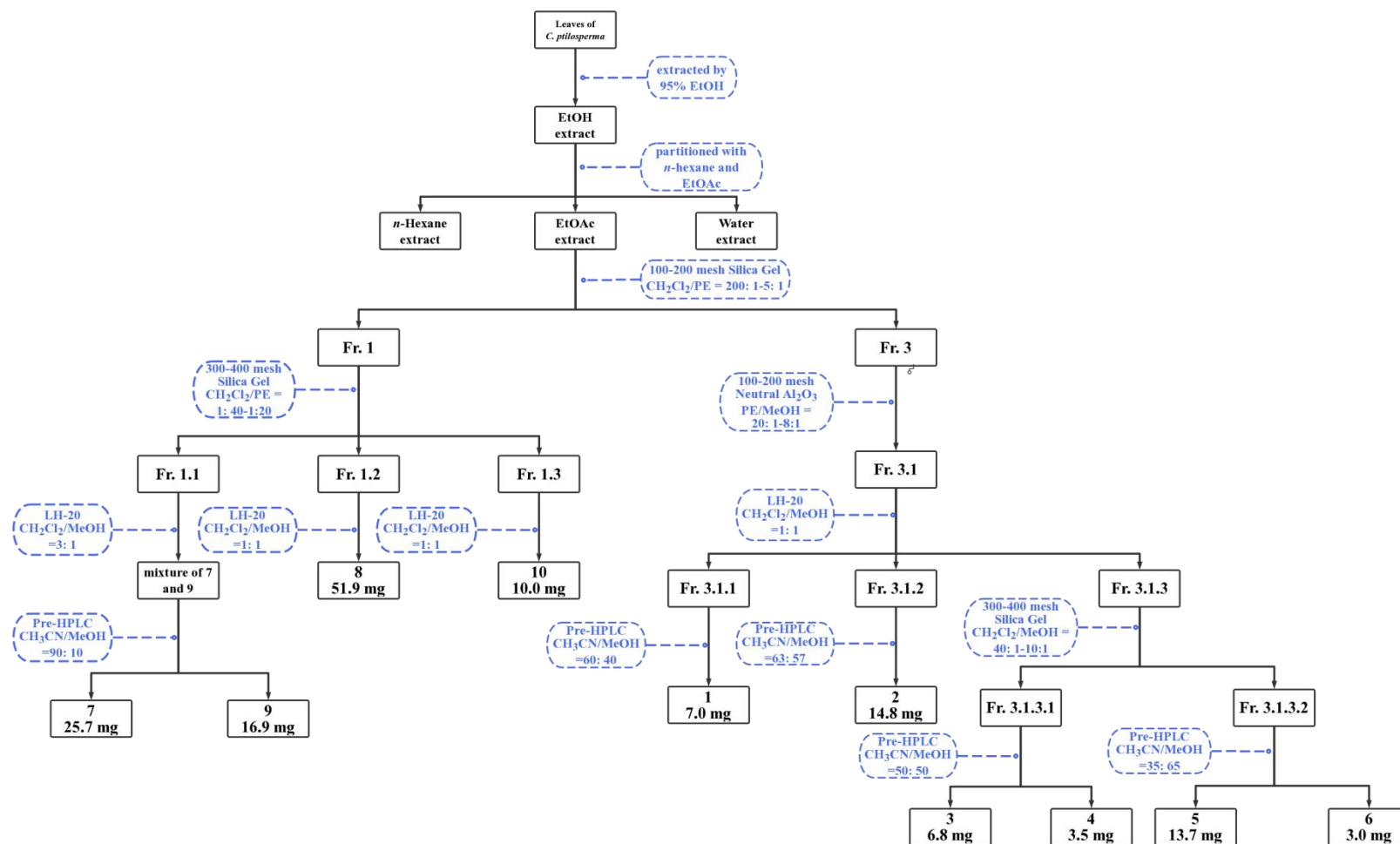


Figure S11. The scheme of extraction and isolation.