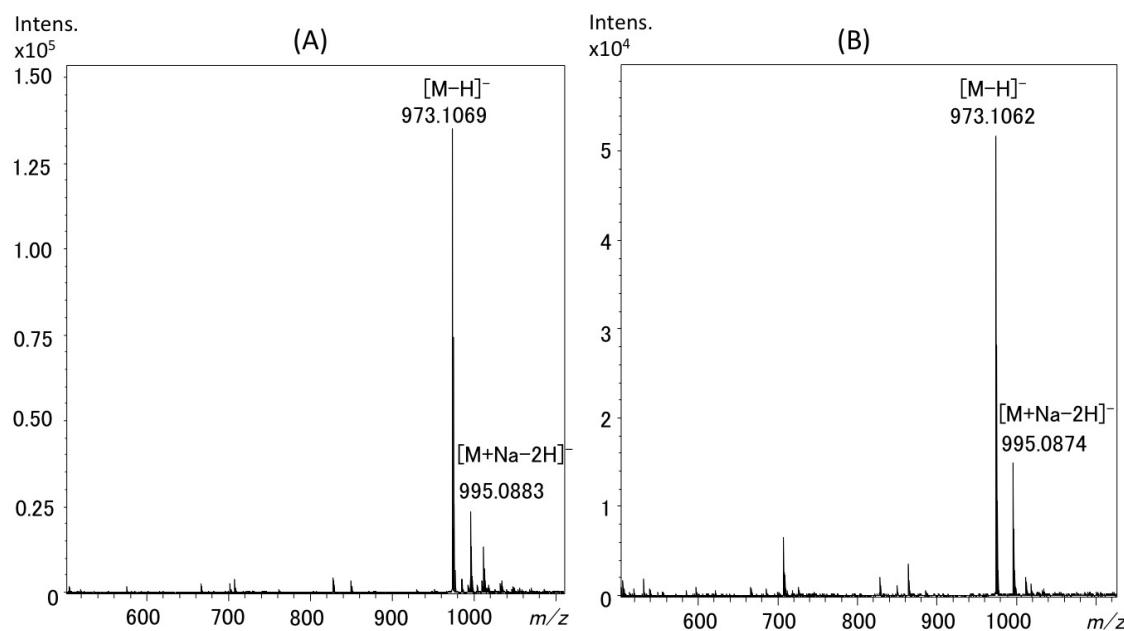


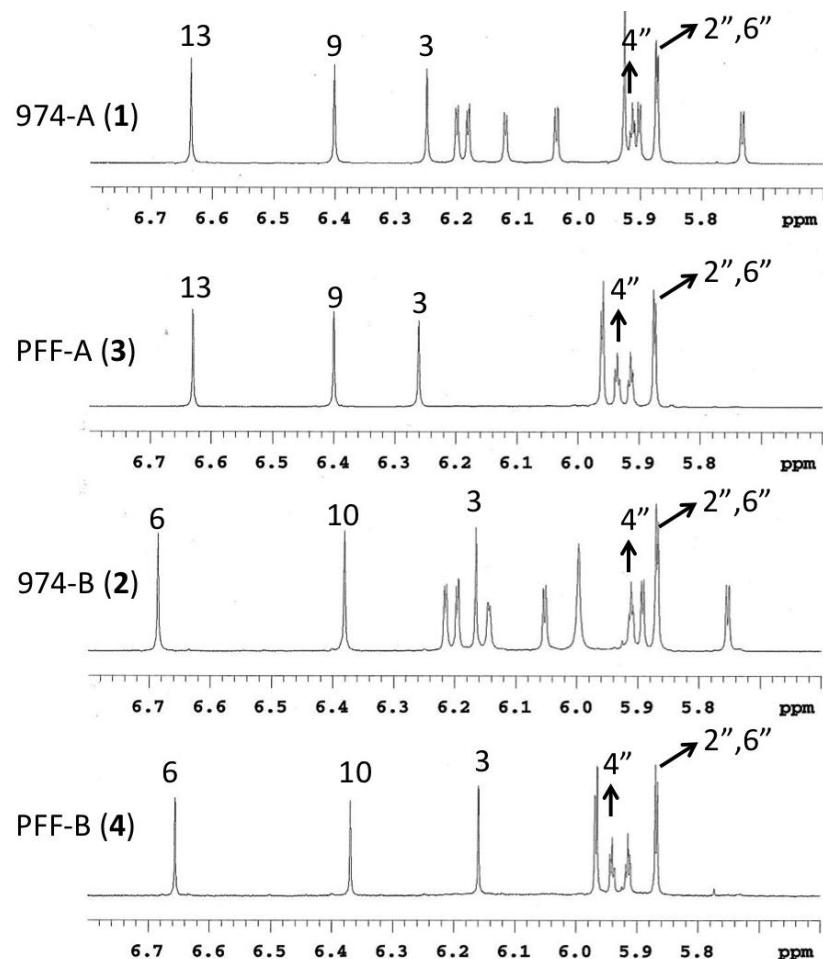
## Supplementary Information

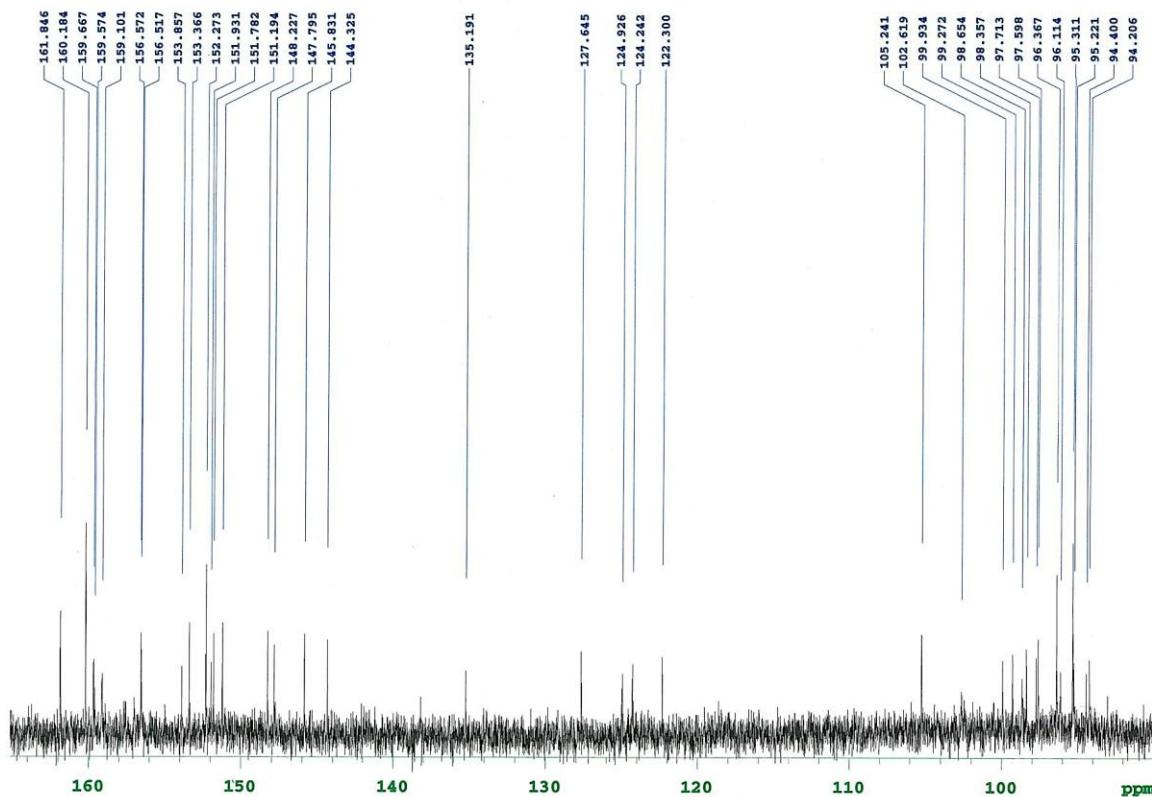
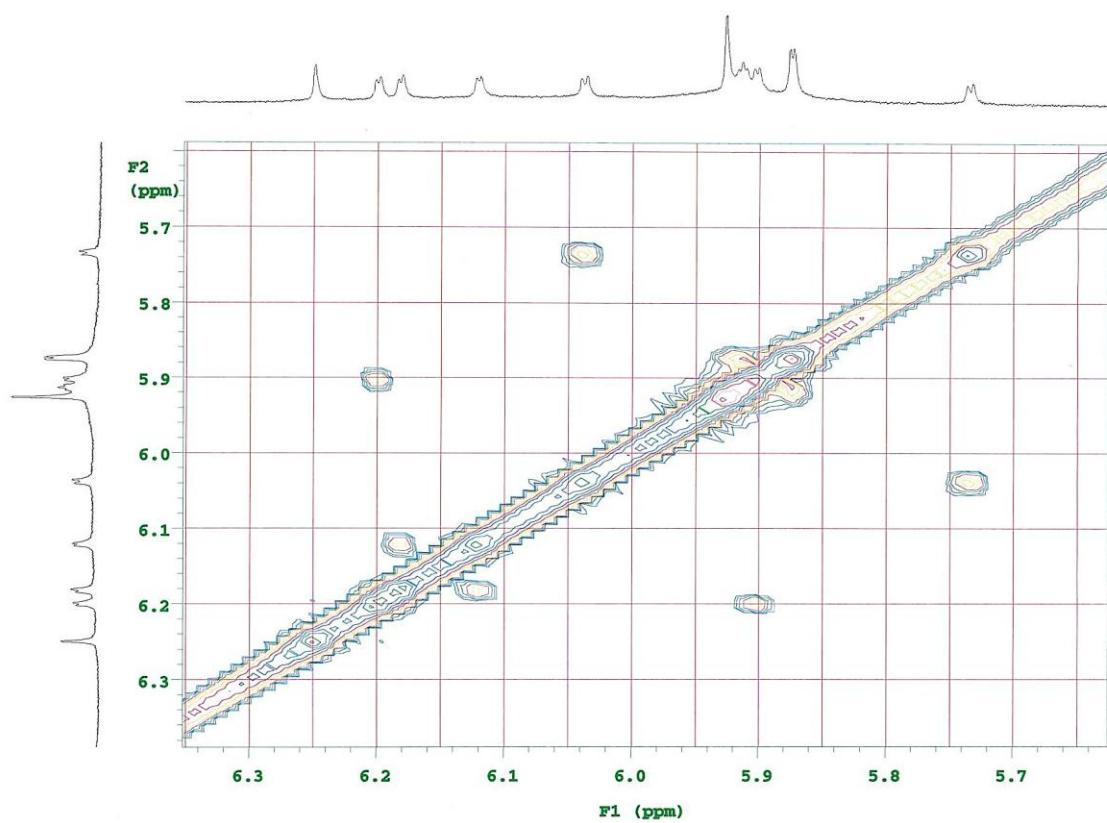
<b>Figure S1.</b> The HR ESI-MS spectra of <b>1</b> and <b>2</b> . The methanolic solutions (1 $\mu$ L) of purified <b>1</b> (1.0 ng) ( <b>A</b> ) and <b>2</b> (0.8 ng) ( <b>B</b> ) were applied to an ESI-TOF-MS in negative mode.	2
<b>Figure S2.</b> $^1\text{H}$ NMR spectra of <b>1</b> , <b>2</b> , <b>3</b> and <b>4</b> (600 MHz, $\text{CD}_3\text{OD}$ , $\underline{\text{CHD}_2}\text{OD}$ 3.30 ppm).	2
<b>Figure S3.</b> $^{13}\text{C}$ NMR spectrum of <b>1</b> in $\text{CD}_3\text{OD}$ (151 MHz, $^{13}\text{CD}_3\text{OD}$ 49.0 ppm).	3
<b>Figure S4.</b> COSY spectrum of <b>1</b> (600 MHz, $\text{CD}_3\text{OD}$ , $\underline{\text{CHD}_2}\text{OD}$ 3.30 ppm).	3
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<b>Figure S6.</b> HMBC spectrum of <b>1</b> (600 MHz, $\text{CD}_3\text{OD}$ , $\underline{\text{CHD}_2}\text{OD}$ 3.30 ppm, 151 MHz, $^{13}\text{CD}_3\text{OD}$ 49.0 ppm, $^nJ_{\text{C,H}}$ 8 Hz).	4
<b>Figure S7.</b> $^1\text{H}$ NMR spectrum of <b>1</b> in $(\text{CD}_3)_2\text{SO}$ (600 MHz, $(\underline{\text{CHD}}_2)_2\text{SO}$ 2.50 ppm).	5
<b>Figure S8.</b> $^1\text{H}$ NMR spectrum of <b>1</b> in $(\text{CD}_3)_2\text{SO}$ (600 MHz, $(\underline{\text{CHD}}_2)_2\text{SO}$ 2.50 ppm) (peak label: chemical shifts in Hz).	5
<b>Figure S9.</b> COSY spectrum of <b>1</b> in $(\text{CD}_3)_2\text{SO}$ (600 MHz, $(\underline{\text{CHD}}_2)_2\text{SO}$ 2.50 ppm).	6
<b>Figure S10.</b> $^{13}\text{C}$ NMR spectrum of <b>2</b> in $\text{CD}_3\text{OD}$ . (151 MHz, $^{13}\text{CD}_3\text{OD}$ 49.0 ppm).	6
<b>Figure S11.</b> COSY spectrum of <b>2</b> (600 MHz, $\text{CD}_3\text{OD}$ , $\underline{\text{CHD}_2}\text{OD}$ 3.30 ppm).	7
<b>Figure S12.</b> HSQC spectrum of <b>2</b> (600 MHz, $\text{CD}_3\text{OD}$ , $\underline{\text{CHD}_2}\text{OD}$ 3.30 ppm, 151 MHz, $^{13}\text{CD}_3\text{OD}$ 49.0 ppm).	7
<b>Figure S13.</b> HMBC spectrum of <b>2</b> (600 MHz, $\text{CD}_3\text{OD}$ , $\underline{\text{CHD}_2}\text{OD}$ 3.30 ppm, 151 MHz, $^{13}\text{CD}_3\text{OD}$ 49.0 ppm, $^nJ_{\text{C,H}}$ 8 Hz).	8
<b>Figure S14.</b> $^1\text{H}$ NMR spectrum of <b>2</b> in $(\text{CD}_3)_2\text{SO}$ (600 MHz, $(\underline{\text{CHD}}_2)_2\text{SO}$ 2.50 ppm).	8

**Figure S1.** The HR ESI-MS spectra of **1** and **2**. The methanolic solutions (1  $\mu$ L) of purified **1** (1.0 ng) (**A**) and **2** (0.8 ng) (**B**) were applied to an ESI-TOF-MS in negative mode.

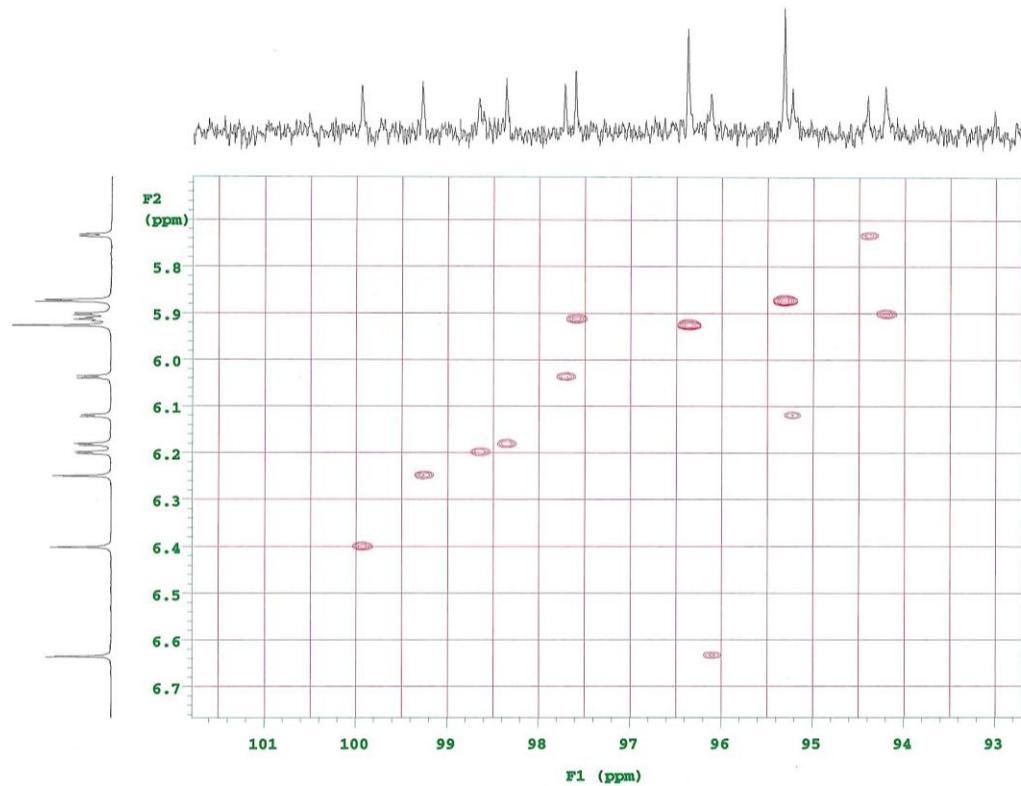


**Figure S2.**  $^1\text{H}$  NMR spectra of **1**, **2**, **3** and **4** (600 MHz,  $\text{CD}_3\text{OD}$ ,  $\text{CHD}_2\text{OD}$  3.30 ppm).

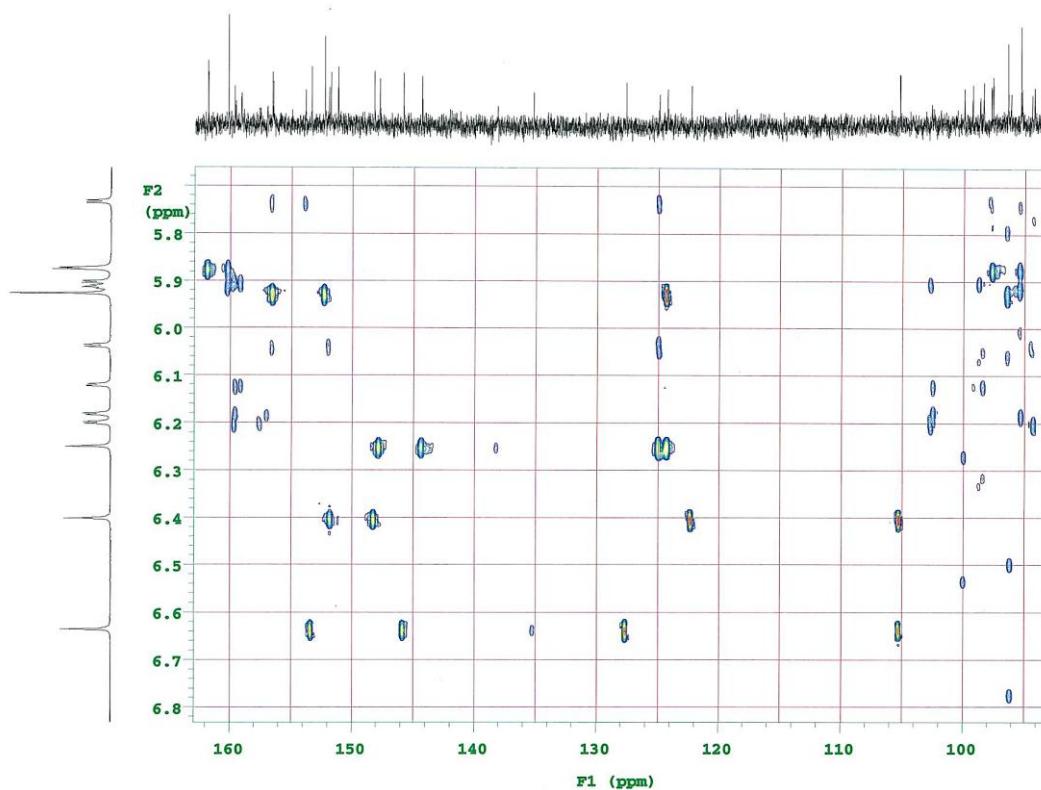


**Figure S3.**  $^{13}\text{C}$  NMR spectrum of **1** in  $\text{CD}_3\text{OD}$ . (151 MHz,  $^{13}\text{CD}_3\text{OD}$  49.0 ppm).**Figure S4.** COSY spectrum of **1** (600 MHz,  $\text{CD}_3\text{OD}$ ,  $\text{CHD}_2\text{OD}$  3.30 ppm).

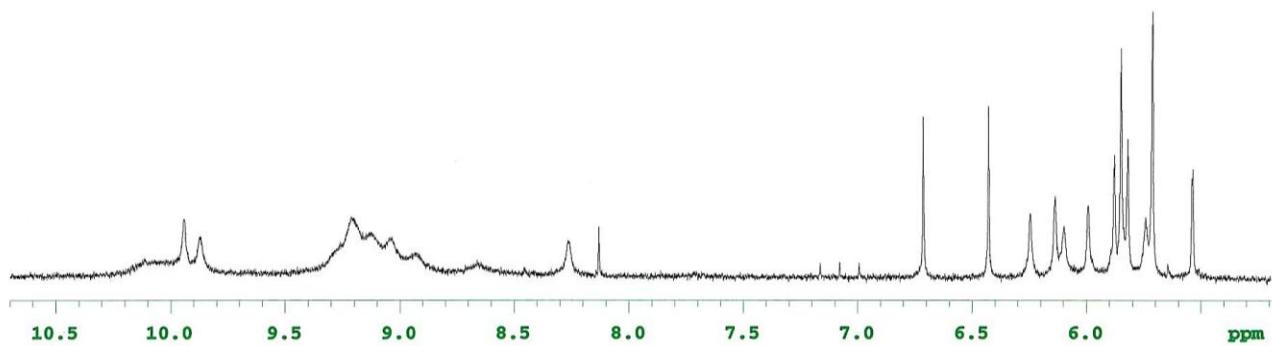
**Figure S5.** HSQC spectrum of **1** (600 MHz, CD<sub>3</sub>OD, CHD<sub>2</sub>OD 3.30 ppm, 151 MHz, <sup>13</sup>CD<sub>3</sub>OD 49.0 ppm).



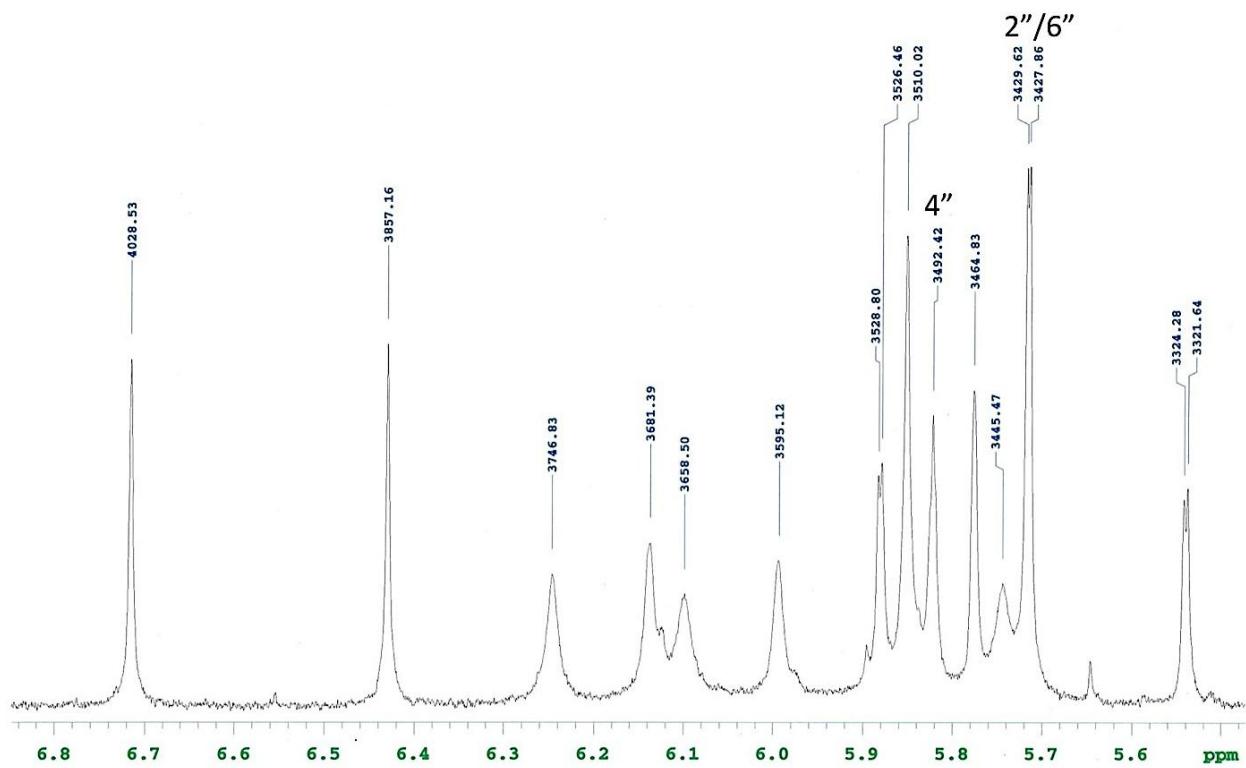
**Figure S6.** HMBC spectrum of **1** (600 MHz, CD<sub>3</sub>OD, CHD<sub>2</sub>OD 3.30 ppm, 151 MHz, <sup>13</sup>CD<sub>3</sub>OD 49.0 ppm, <sup>n</sup>J<sub>C,H</sub> 8 Hz).

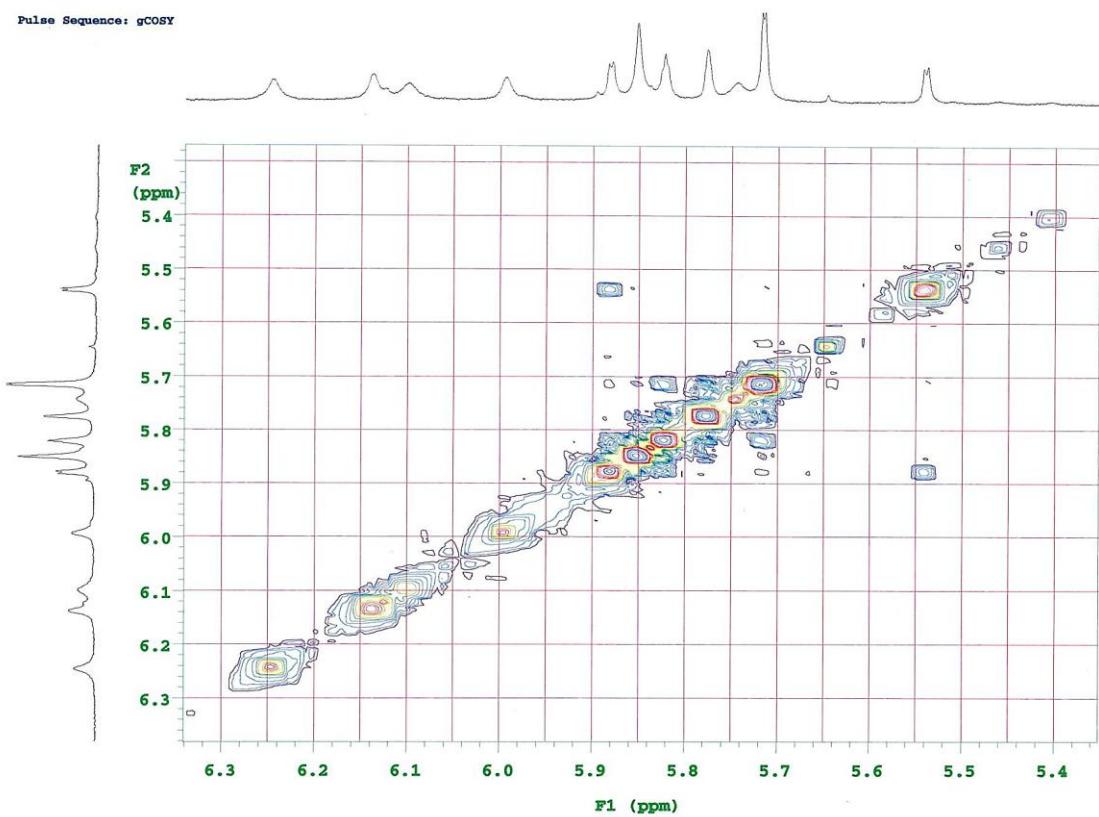
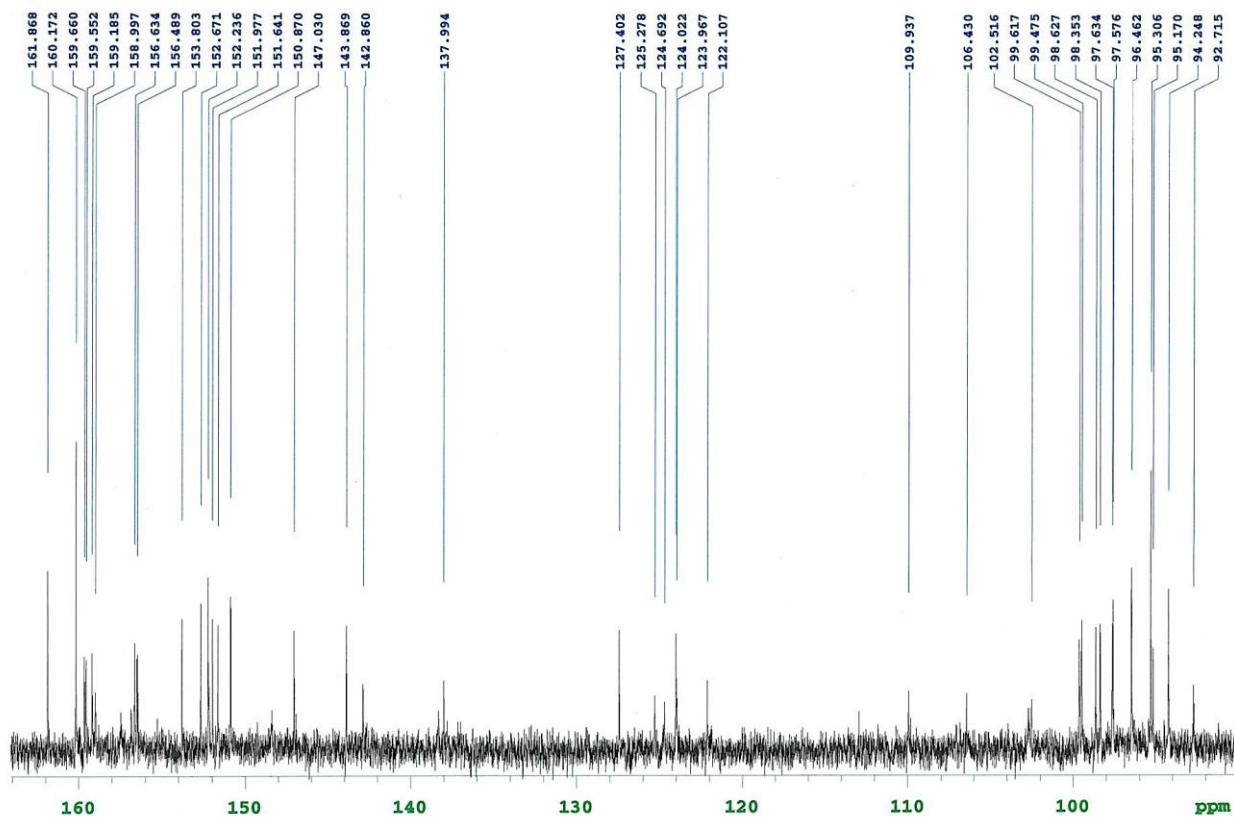


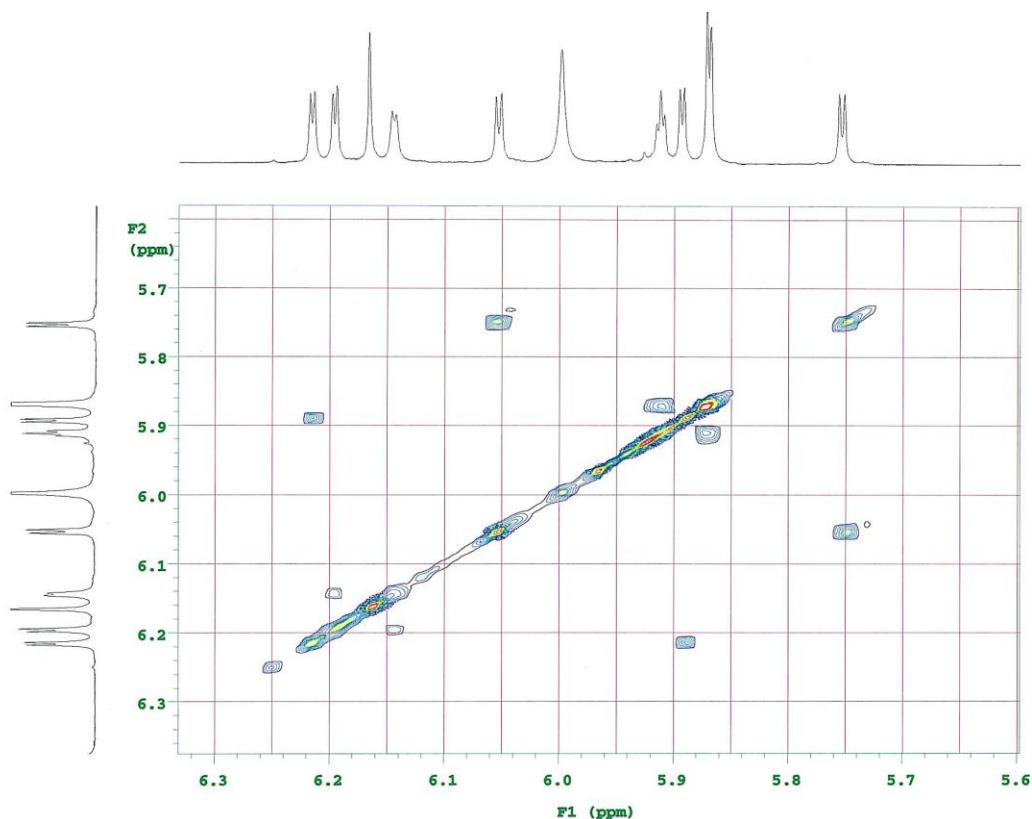
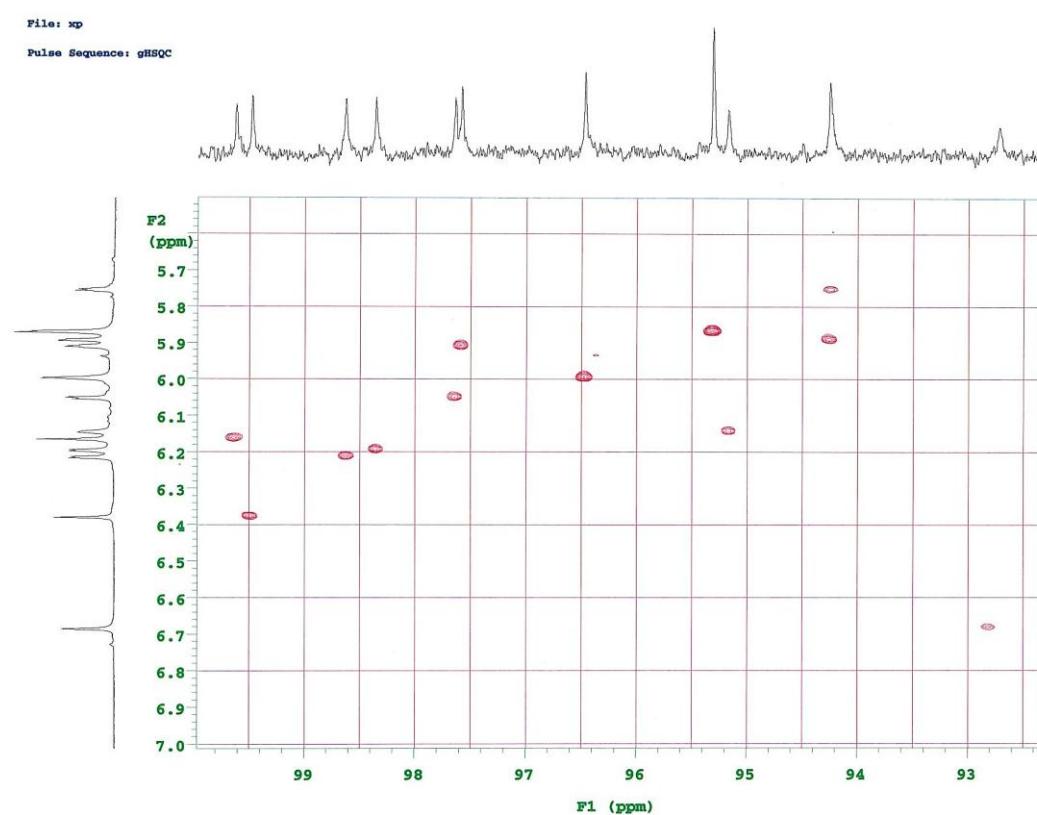
**Figure S7.**  $^1\text{H}$  NMR spectrum of **1** in  $(\text{CD}_3)_2\text{SO}$  (600 MHz,  $(\text{CHD}_2)_2\text{SO}$  2.50 ppm).



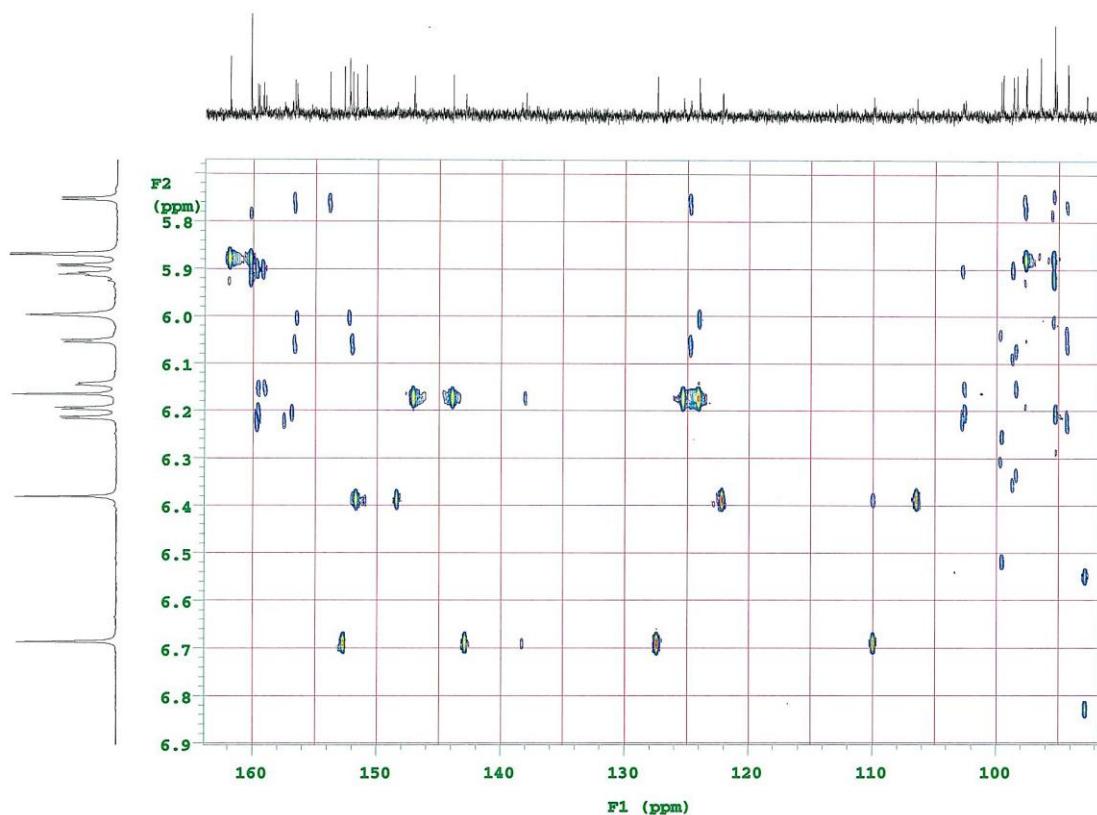
**Figure S8.**  $^1\text{H}$  NMR spectrum of **1** in  $(\text{CD}_3)_2\text{SO}$  (600 MHz,  $(\text{CHD}_2)_2\text{SO}$  2.50 ppm) (peak label: chemical shifts in Hz).



**Figure S9.** COSY spectrum of **1** in  $(CD_3)_2SO$  (600 MHz,  $(CHD_2)_2SO$  2.50 ppm).**Figure S10.**  $^{13}C$  NMR spectrum of **2** in  $CD_3OD$ . (151 MHz,  $^{13}CD_3OD$  49.0 ppm).

**Figure S11.** COSY spectrum of **2** (600 MHz, CD<sub>3</sub>OD, CHD<sub>2</sub>OD 3.30 ppm).**Figure S12.** HSQC spectrum of **2** (600 MHz, CD<sub>3</sub>OD, CHD<sub>2</sub>OD 3.30 ppm, 151 MHz, <sup>13</sup>CD<sub>3</sub>OD 49.0 ppm).

**Figure S13.** HMBC spectrum of **2** (600 MHz, CD<sub>3</sub>OD, CHD<sub>2</sub>OD 3.30 ppm, 151 MHz, <sup>13</sup>CD<sub>3</sub>OD 49.0 ppm, <sup>n</sup>J<sub>C,H</sub> 8 Hz).



**Figure S14.** <sup>1</sup>H NMR spectrum of **2** in (CD<sub>3</sub>)<sub>2</sub>SO (600 MHz, (CHD<sub>2</sub>)<sub>2</sub>SO 2.50 ppm).

