

**Phytochemical characterization of *Cannabis sativa* L. chemotype V reveals three new dihydrophenanthrenoids that favourably reprogram lipid mediator biosynthesis in macrophages**

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**SUPPORTING INFORMATION:**

**Figure S1.** <sup>1</sup>H NMR spectrum (400 MHz) of compound 5 in C<sub>3</sub>D<sub>6</sub>O.

**Figure S2.** <sup>13</sup>C NMR spectrum (100 MHz) of compound 5 in C<sub>3</sub>D<sub>6</sub>O.

**Figure S3.** HSQC 2D NMR spectrum (400 MHz) of compound 5 in C<sub>3</sub>D<sub>6</sub>O.

**Figure S4.** COSY 2D NMR spectrum (400 MHz) of compound 5 in C<sub>3</sub>D<sub>6</sub>O.

**Figure S5.** NOESY 2D NMR spectrum (400 MHz) of compound 5 in C<sub>3</sub>D<sub>6</sub>O.

**Figure S6.** HMBC 2D NMR spectrum (600 MHz) of compound 5 in C<sub>3</sub>D<sub>6</sub>O.

**Figure S7.** <sup>1</sup>H NMR spectrum (400 MHz) of compound 9 in C<sub>3</sub>D<sub>6</sub>O.

**Figure S8.** <sup>13</sup>C NMR spectrum (100MHz) of compound 9 in C<sub>3</sub>D<sub>6</sub>O.

**Figure S9.** HSQC 2D NMR spectrum (400 MHz) of compound 9 in C<sub>3</sub>D<sub>6</sub>O.

**Figure S10.** COSY 2D NMR spectrum (400 MHz) of compound 9 in C<sub>3</sub>D<sub>6</sub>O.

**Figure S11.** NOESY 2D NMR spectrum (600 MHz) of compound 9 in C<sub>3</sub>D<sub>6</sub>O.

**Figure S12.** HMBC spectrum (400 MHz) of compound 9 in C<sub>3</sub>D<sub>6</sub>O.

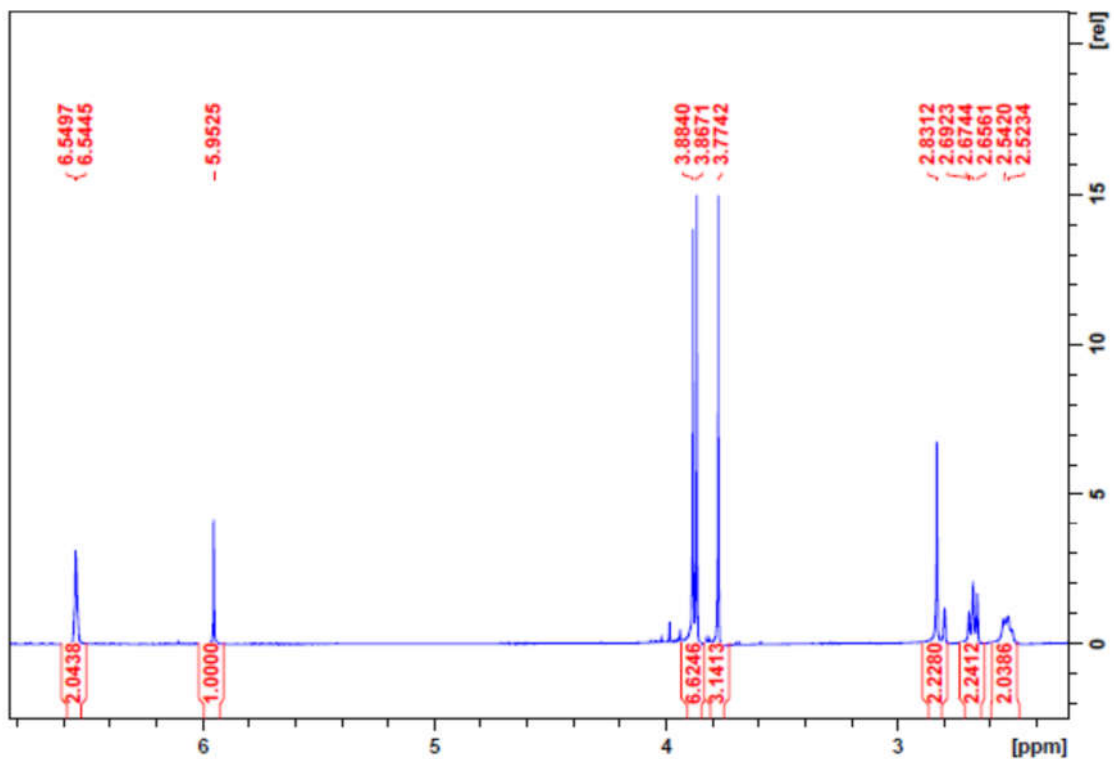
**Figure S13.** <sup>1</sup>H NMR spectrum (400 MHz) of compound 10 in C<sub>3</sub>D<sub>6</sub>O.

**Figure S14.** <sup>13</sup>C NMR spectrum (100MHz) of compound 10 in C<sub>3</sub>D<sub>6</sub>O.

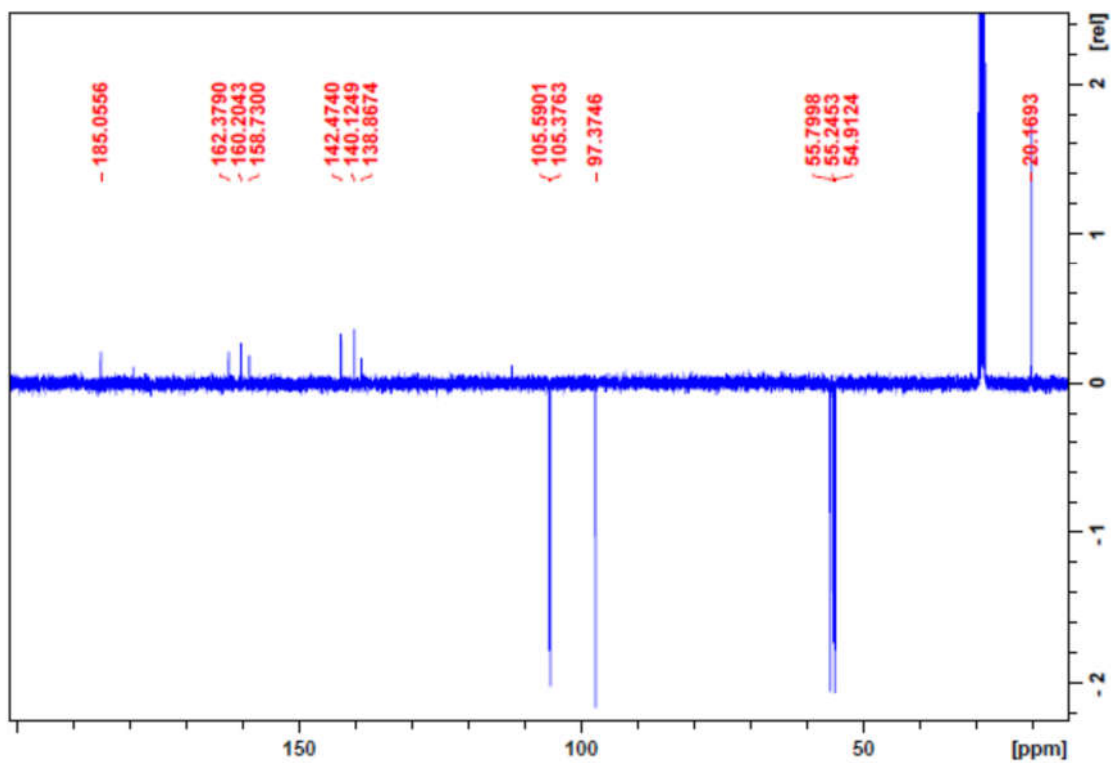
**Figure S15.** HSQC 2D NMR spectrum (400 MHz) of compound 10 in C<sub>3</sub>D<sub>6</sub>O.

**Figure S16.** COSY 2D NMR spectrum (400 MHz) of compound 10 in C<sub>3</sub>D<sub>6</sub>O.

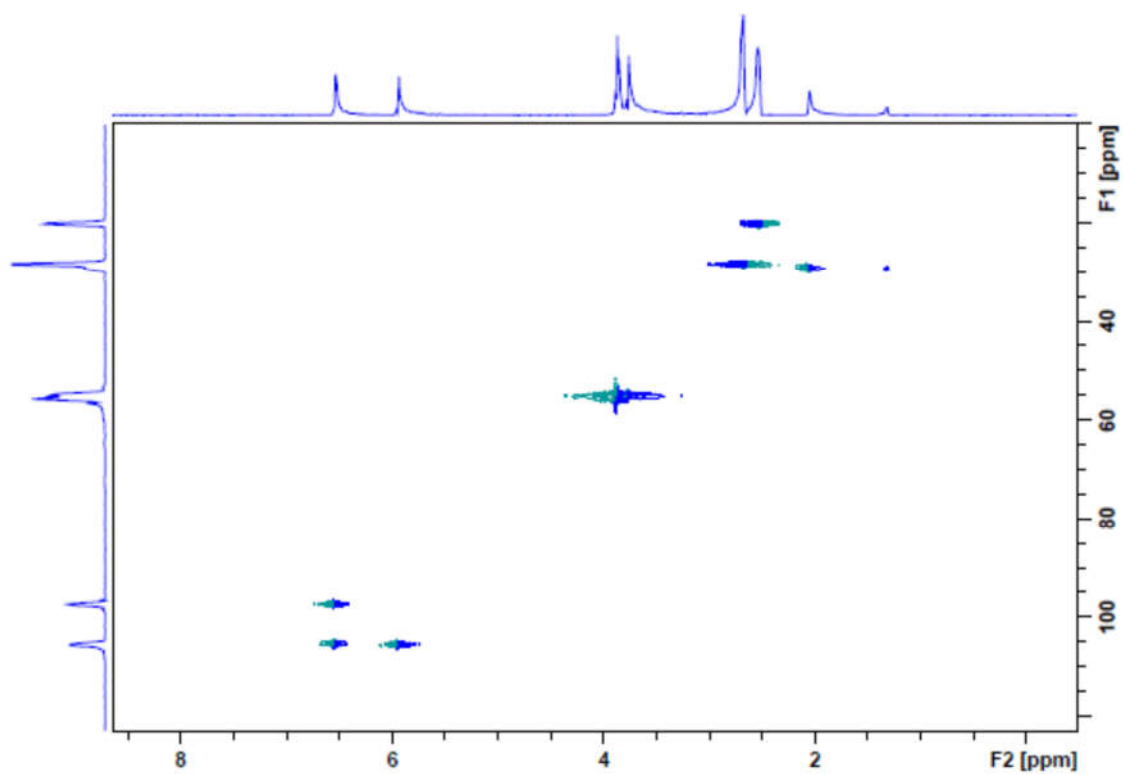
**Figure S17.** HMBC 2D NMR spectrum (600 MHz) of compound 10 in C<sub>3</sub>D<sub>6</sub>O.



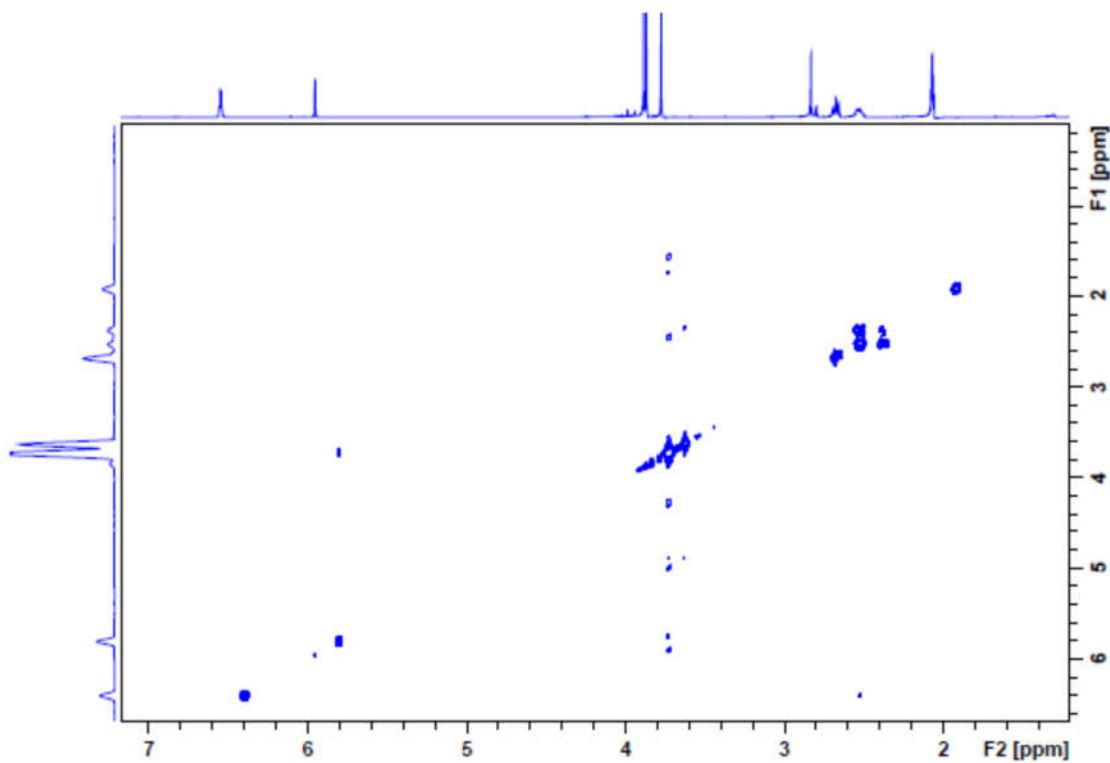
**Figure S1.** <sup>1</sup>H NMR spectrum (400 MHz) of compound 5 in C<sub>3</sub>D<sub>6</sub>O.



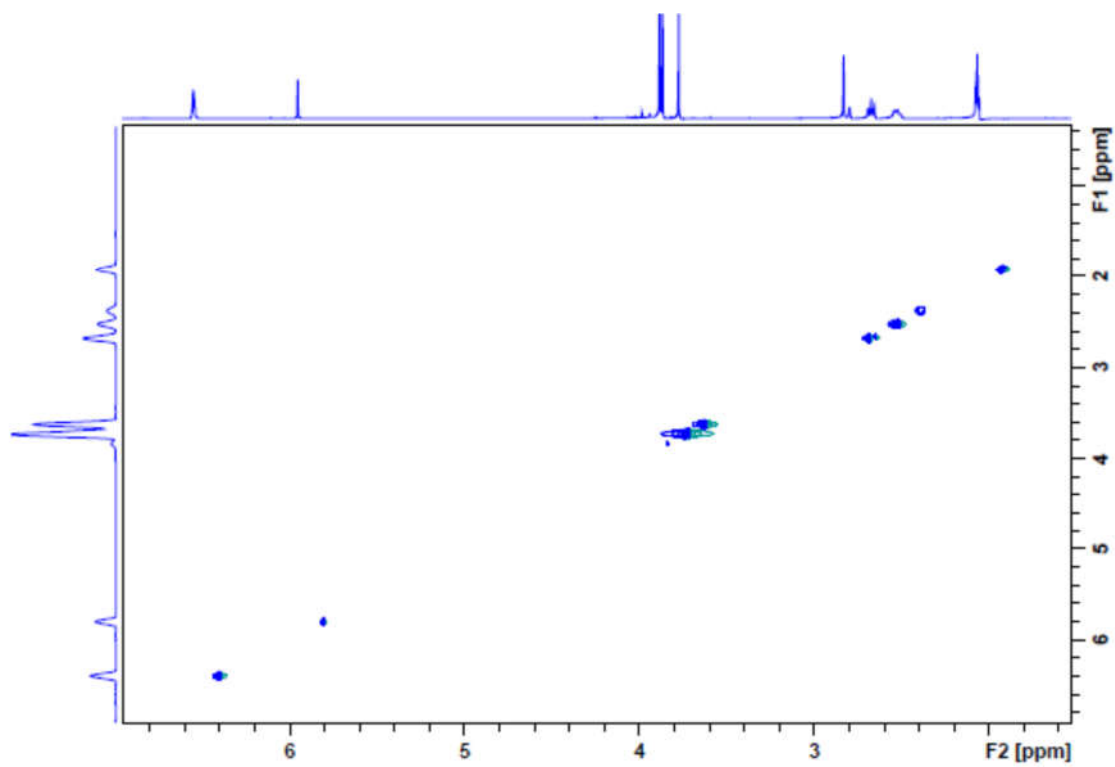
**Figure S2.** <sup>13</sup>C NMR spectrum (100 MHz) of compound 5 in C<sub>3</sub>D<sub>6</sub>O.



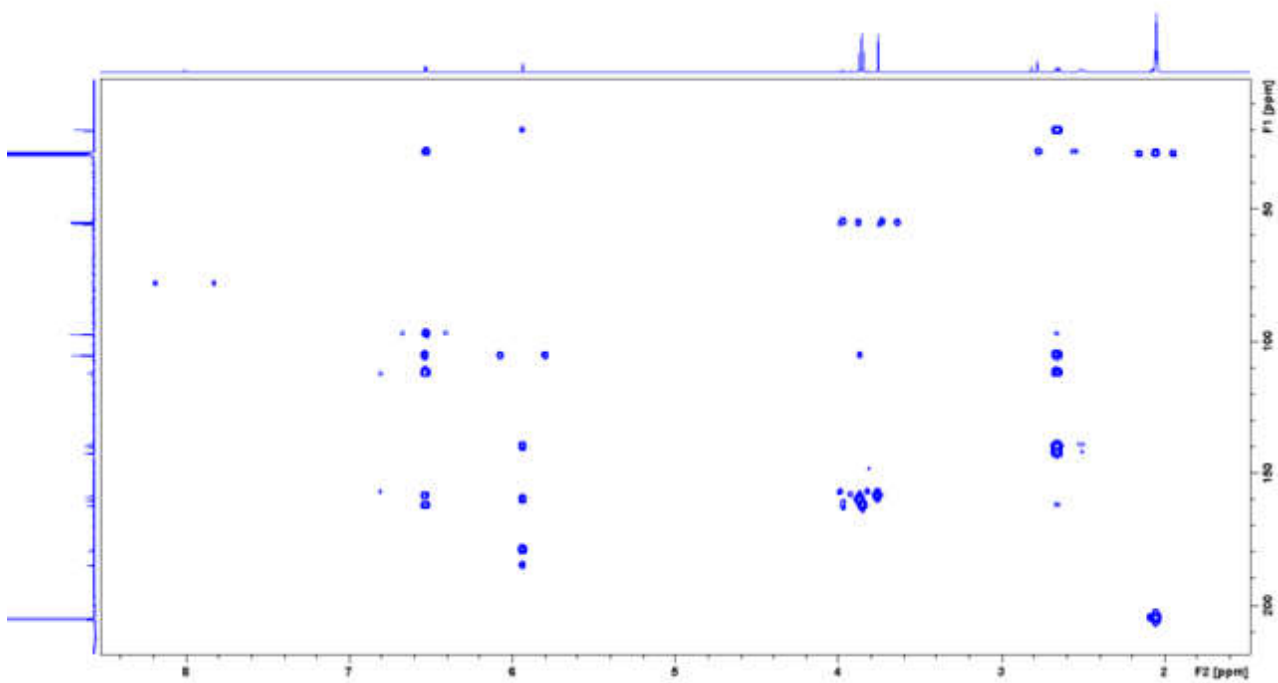
**Figure S3.** HSQC spectrum (400 MHz) of compound 5 in C<sub>3</sub>D<sub>6</sub>O.



**Figure S4.** COSY spectrum (400 MHz) of compound 5 in C<sub>3</sub>D<sub>6</sub>O.



**Figure S5.** NOESY spectrum (400 MHz) of compound 5 in  $C_3D_6O$ .



**Figure S6.** HMBC 2D NMR spectrum (600 MHz) of compound 5 in  $C_3D_6O$ .

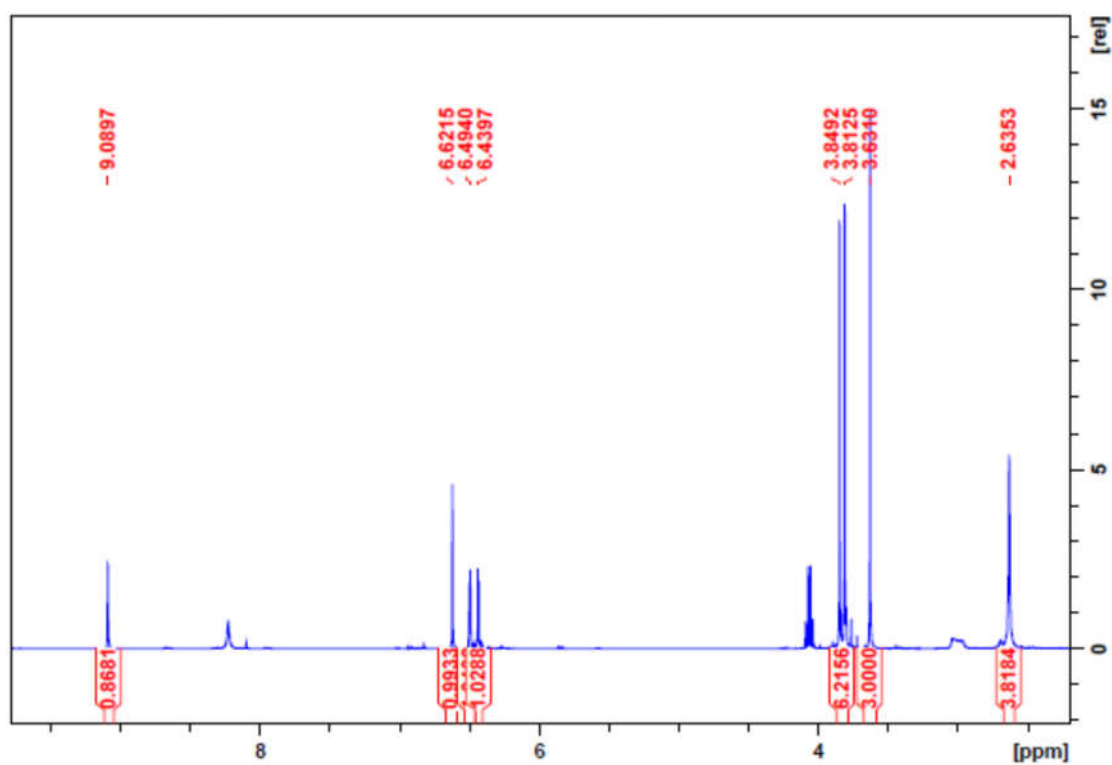


Figure S7. <sup>1</sup>H NMR spectrum (400 MHz) of compound 9 in C<sub>3</sub>D<sub>6</sub>O.

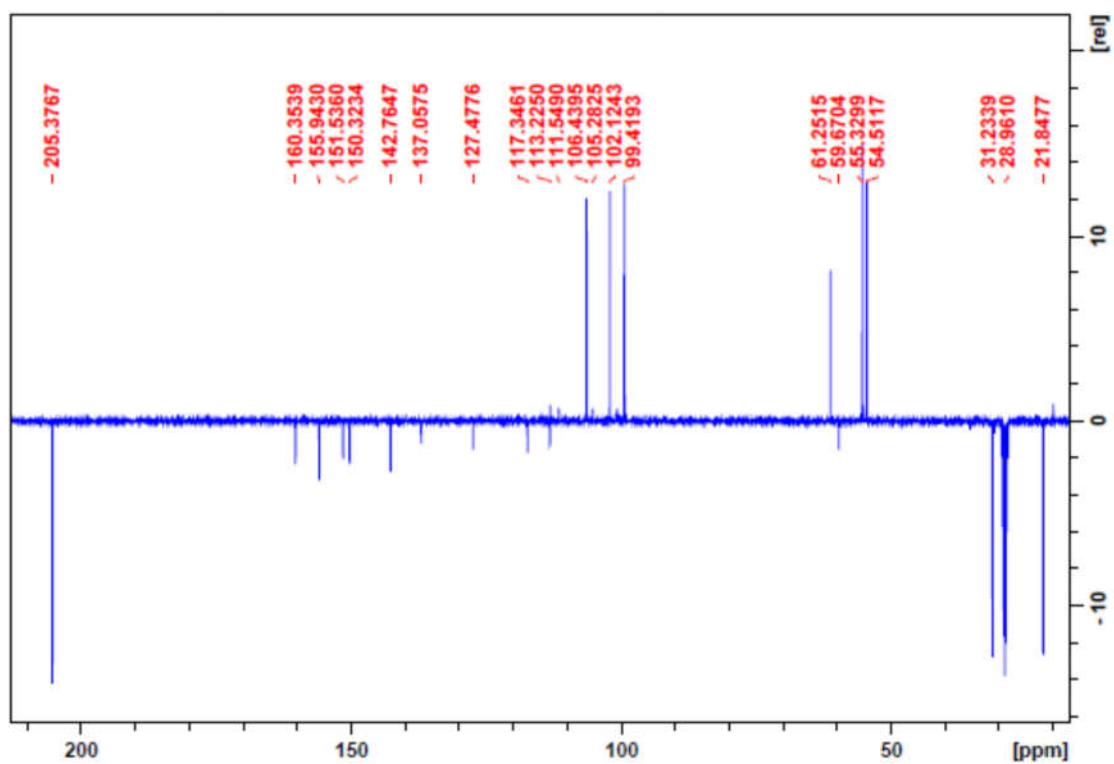
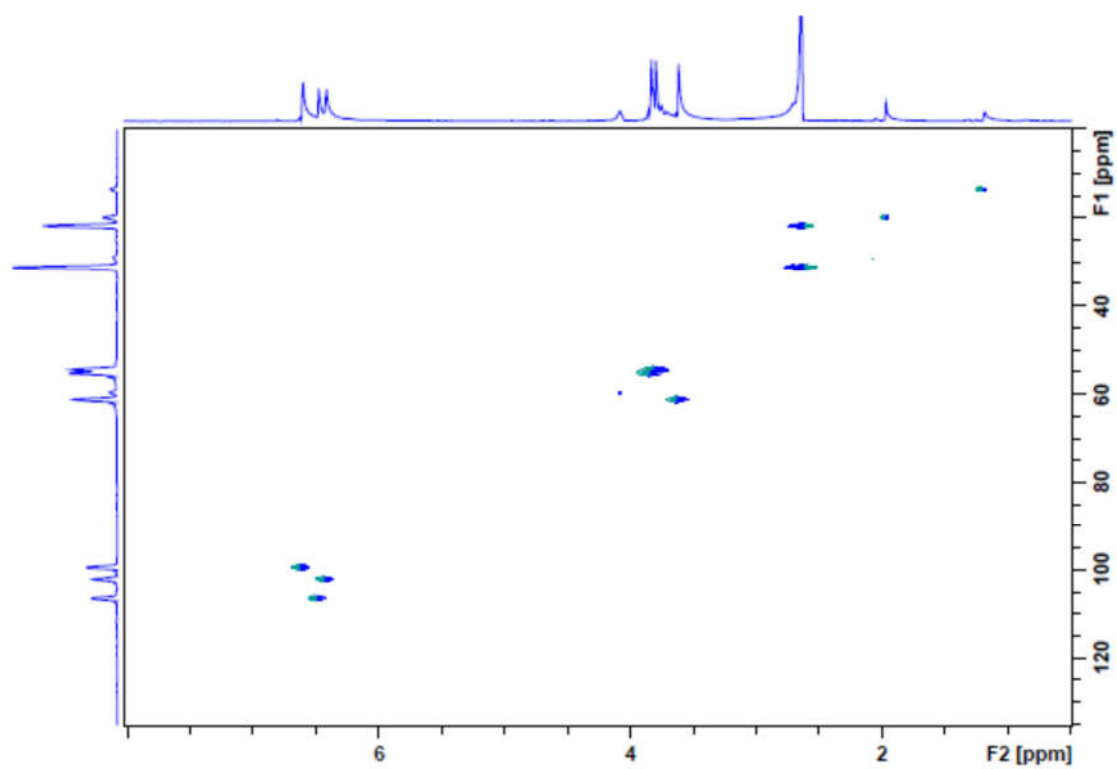
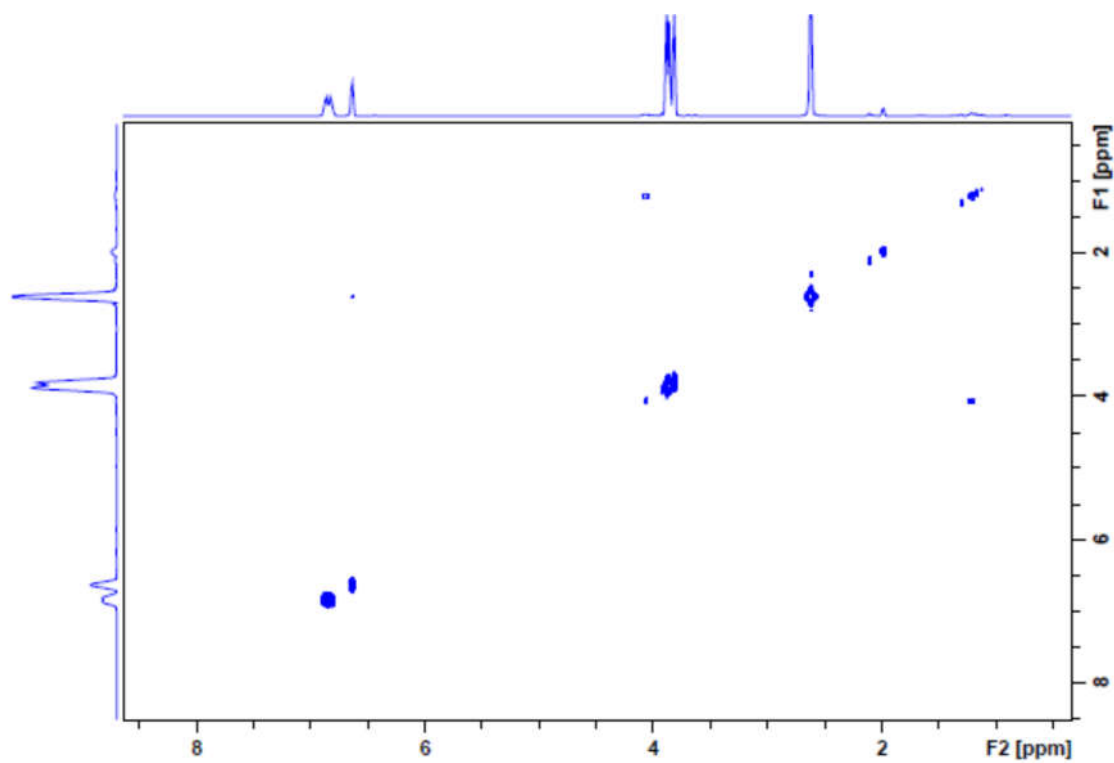


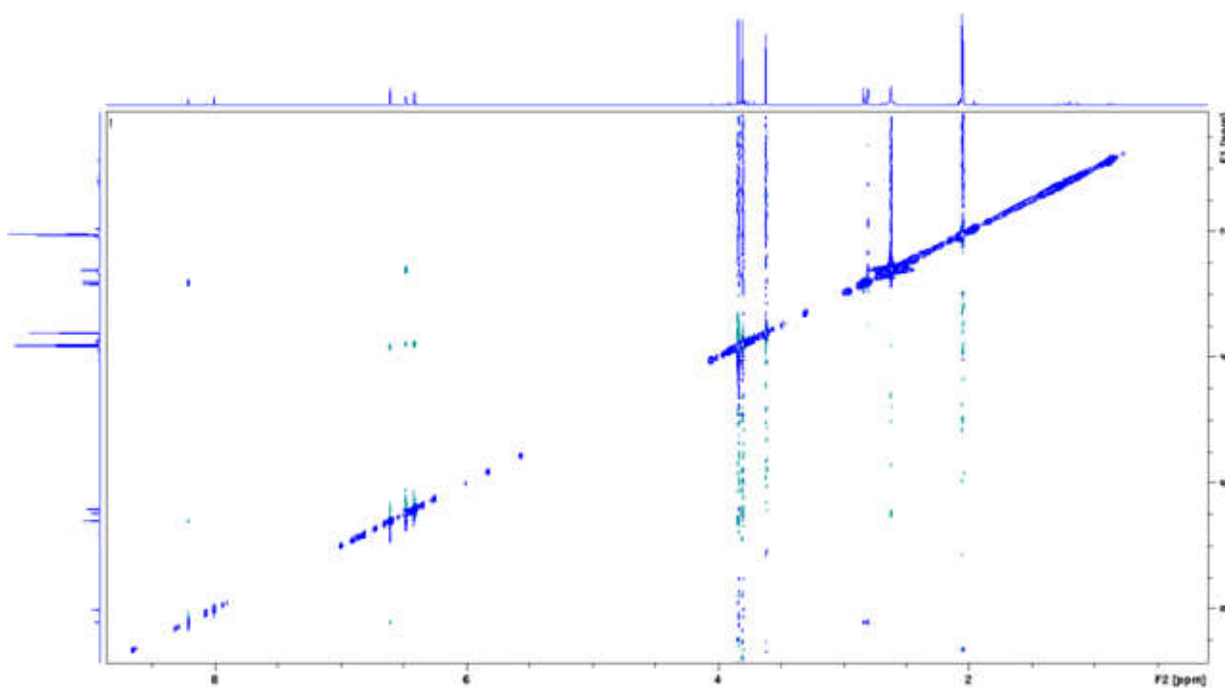
Figure S8. <sup>13</sup>C NMR spectrum (100 MHz) of compound 9 in C<sub>3</sub>D<sub>6</sub>O.



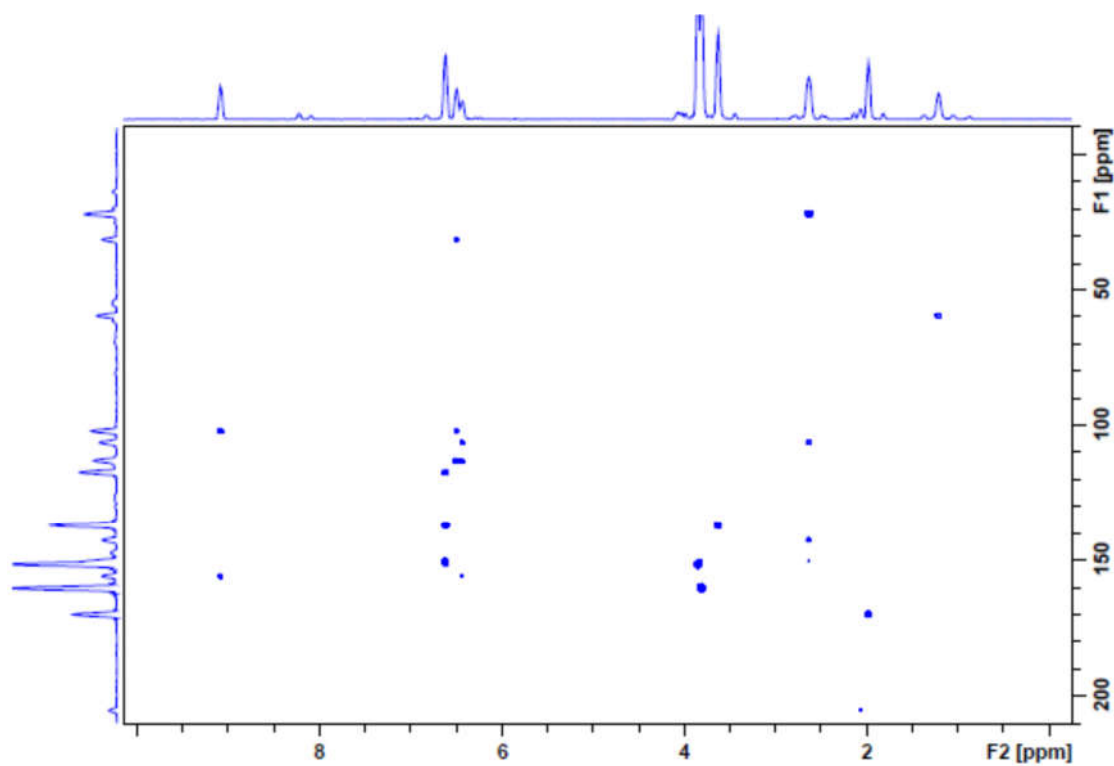
**Figure S9.** HSQC 2D NMR spectrum (400 MHz) of compound 9 in  $C_3D_6O$ .



**Figure S10.** COSY 2D NMR spectrum (400 MHz) of compound 9 in  $C_3D_6O$ .



**Figure S11.** NOESY 2D NMR spectrum (600 MHz) of compound 9 in  $C_3D_6O$ .



**Figure S12.** HMBC 2D NMR spectrum (400 MHz) of compound 9 in  $C_3D_6O$ .

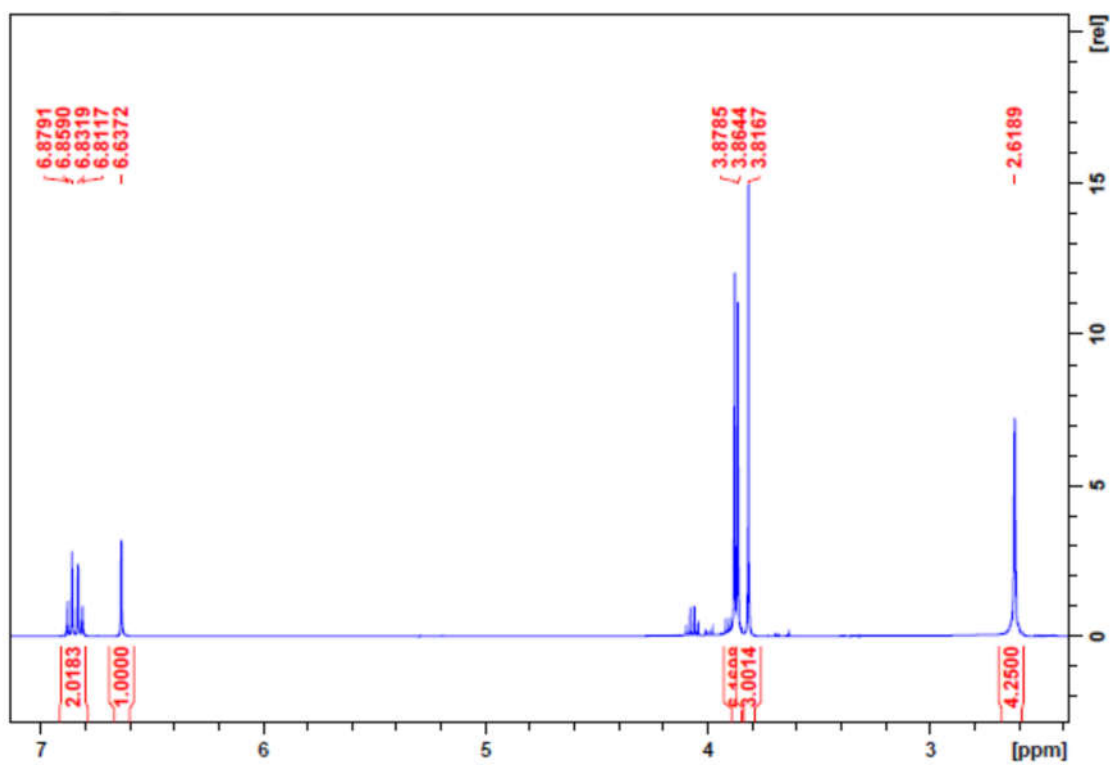


Figure S13.  $^1\text{H}$  NMR spectrum (400 MHz) of compound 10 in  $\text{C}_3\text{D}_6\text{O}$ .

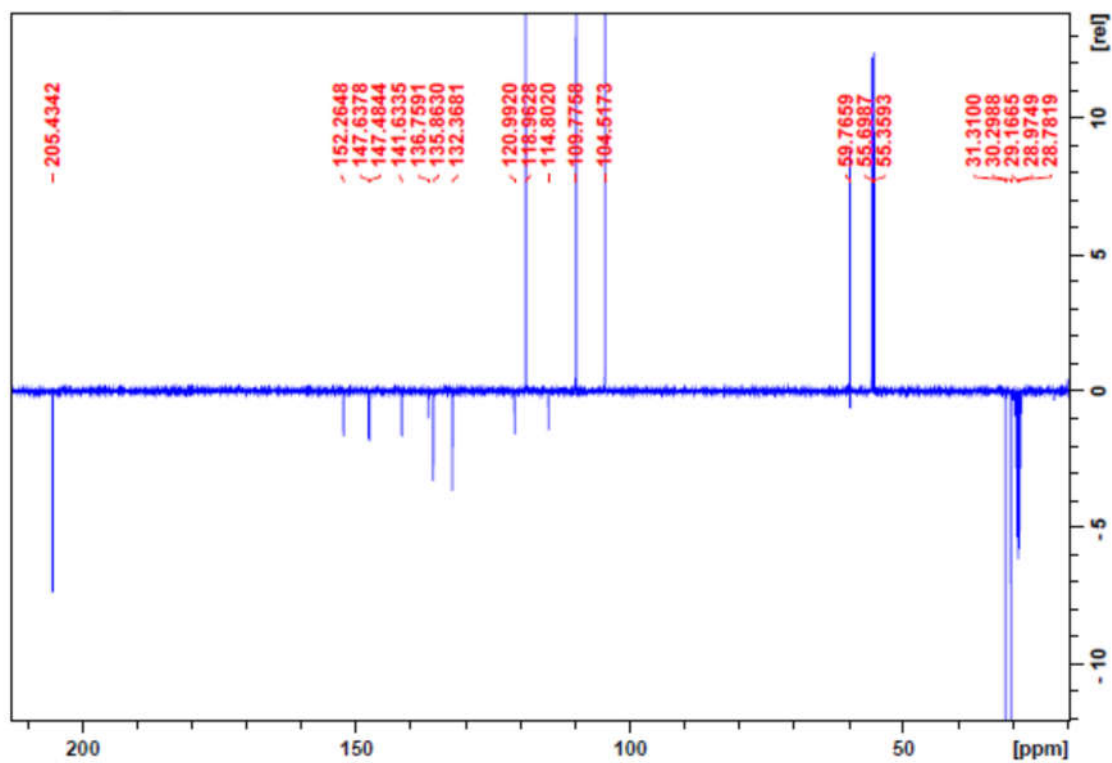
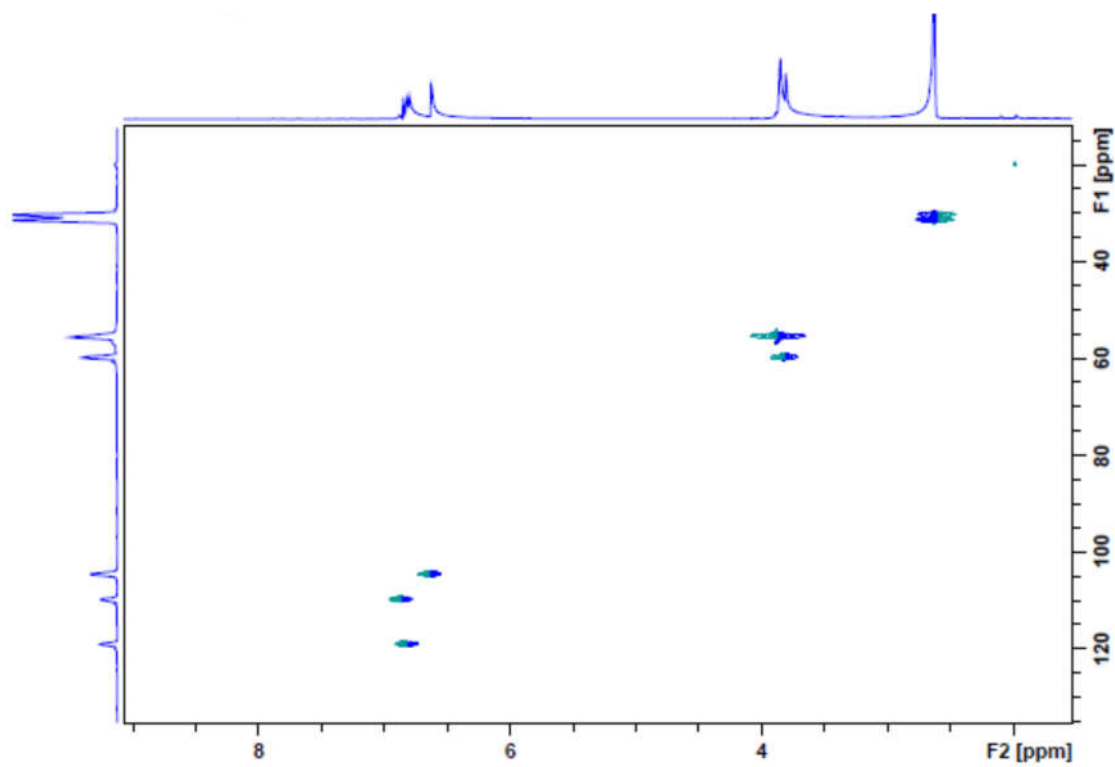
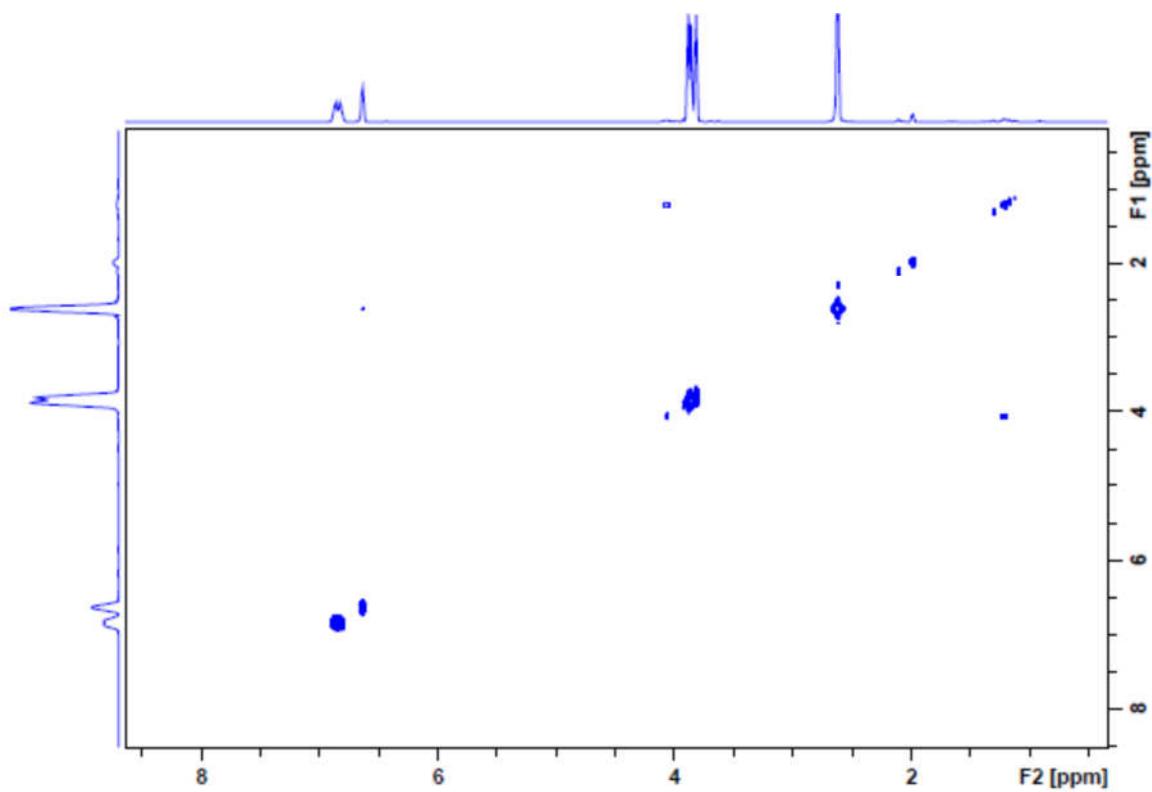


Figure S14.  $^{13}\text{C}$  NMR spectrum (100MHz) of compound 10 in  $\text{C}_3\text{D}_6\text{O}$ .

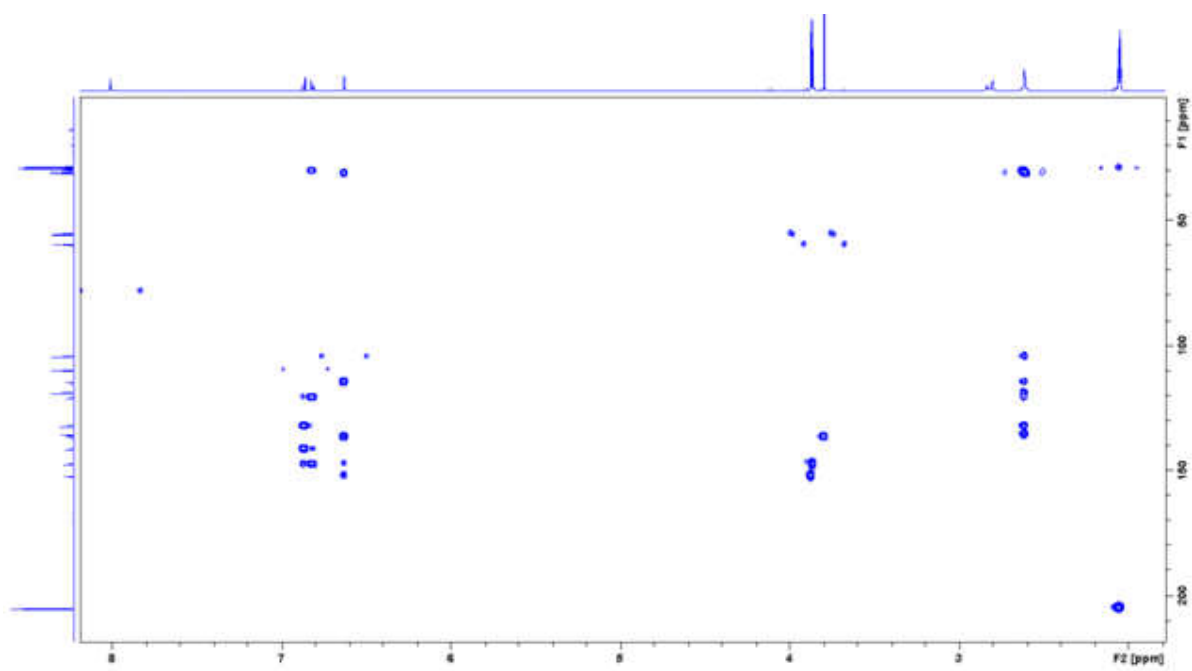




**Figure S15.** HSQC 2D NMR spectrum (400 MHz) of compound 10 in C<sub>3</sub>D<sub>6</sub>O.



**Figure S16.** COSY 2D NMR spectrum (400 MHz) of compound 10 in C<sub>3</sub>D<sub>6</sub>O.



**Figure S17.** HMBC 2D NMR spectrum (600 MHz) of compound 10 in  $C_3D_6O$ .