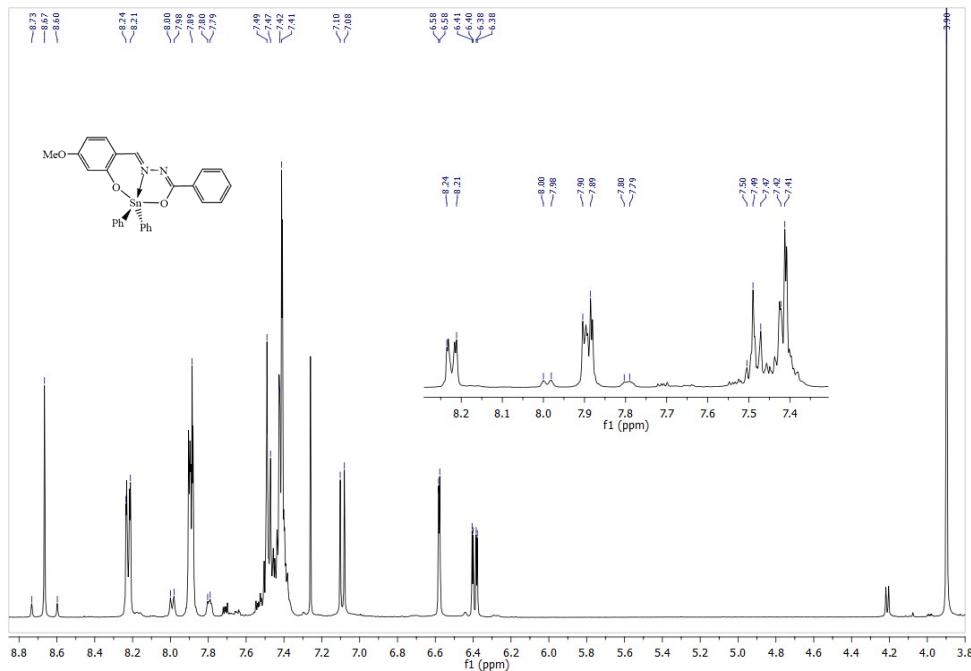


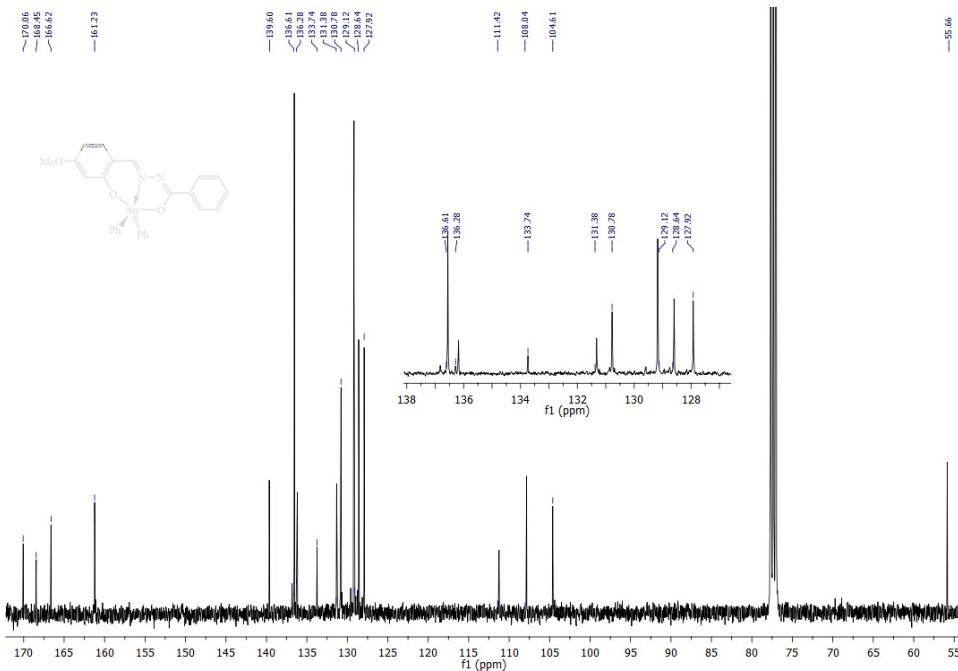
## Supplementary information for:

### Fluorescent organotin compounds as dyes in silk fibroin (*Bombyx mori*): Ultrasound and Conventional Synthesis, Chemo-Optical Characterization, Cytotoxicity, and Confocal Fluorescence Microscopy

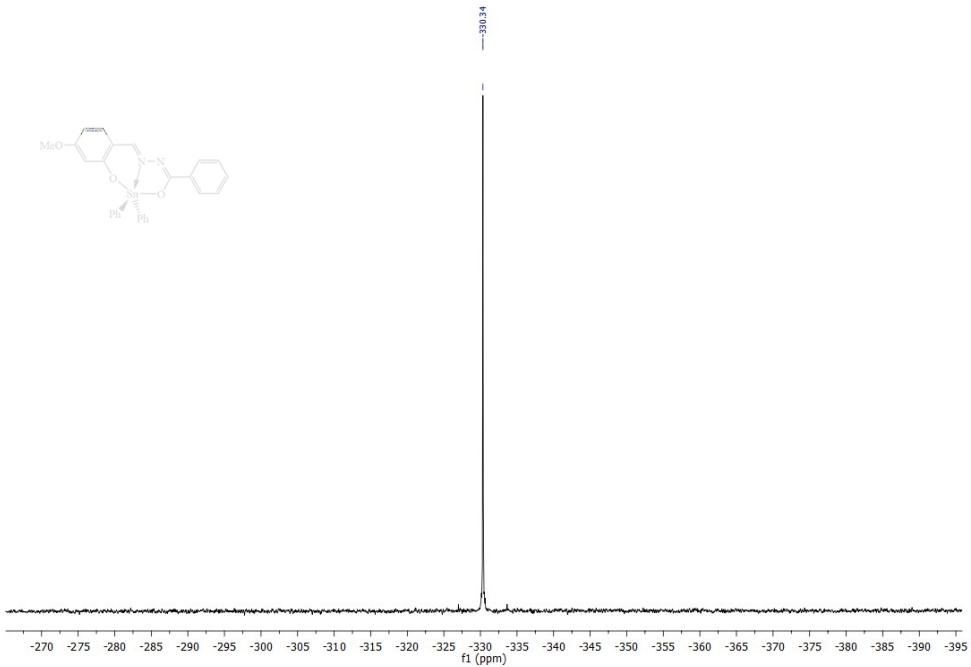
Jessica C. Berrones-Reyes, Blanca M. Muñoz-Flores, Abigail Molina-Paredes, Marisol Ibarra Rodríguez, Alejandro Rodríguez-Ortega, H. V. Rasika Dias, Víctor M. Jiménez-Pérez.\*



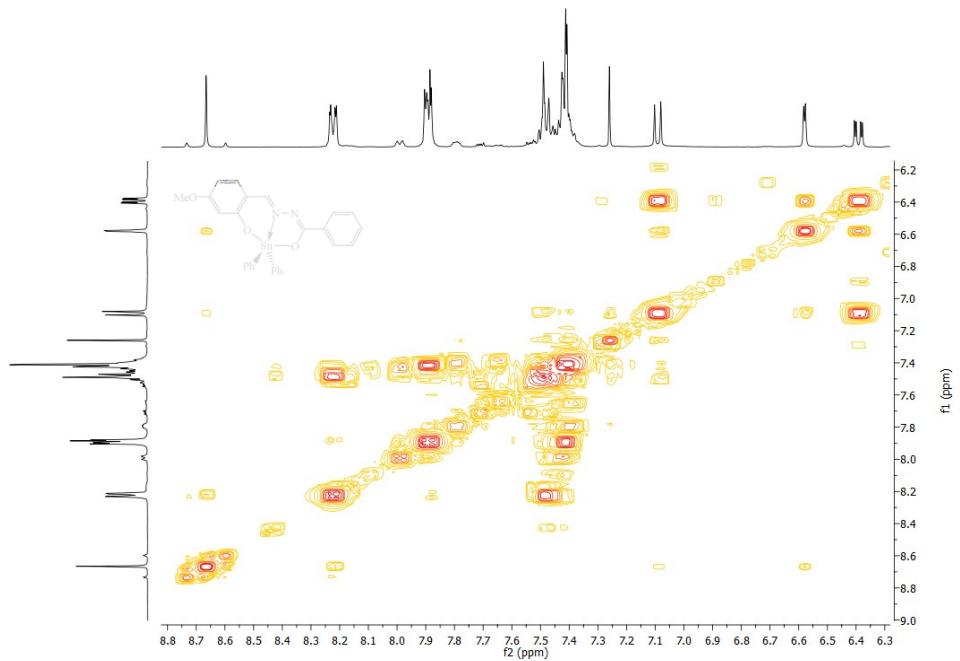
**Fig. S1.** The  $^1\text{H}$ -NMR (400 MHz, CDCl<sub>3</sub>) spectrum of compound 1.



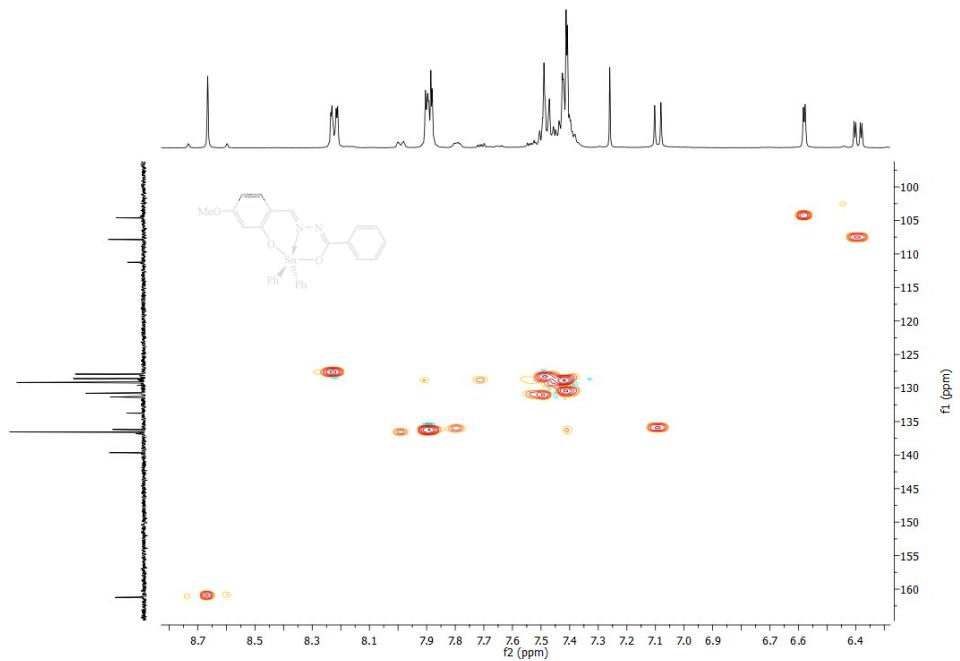
**Fig. S2.** The  $^{13}\text{C}$ -NMR (100 MHz,  $\text{CDCl}_3$ ) spectrum of compound 1.



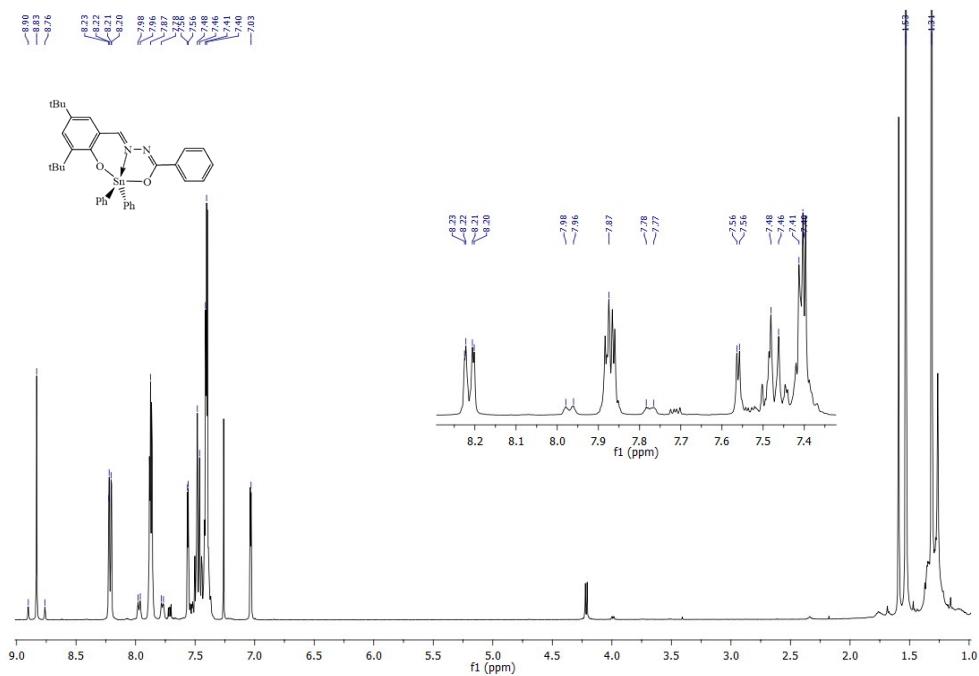
**Fig. S3.** The  $^{119}\text{Sn}$ -NMR (149.14 MHz,  $\text{CDCl}_3$ ) spectrum of compound 1.



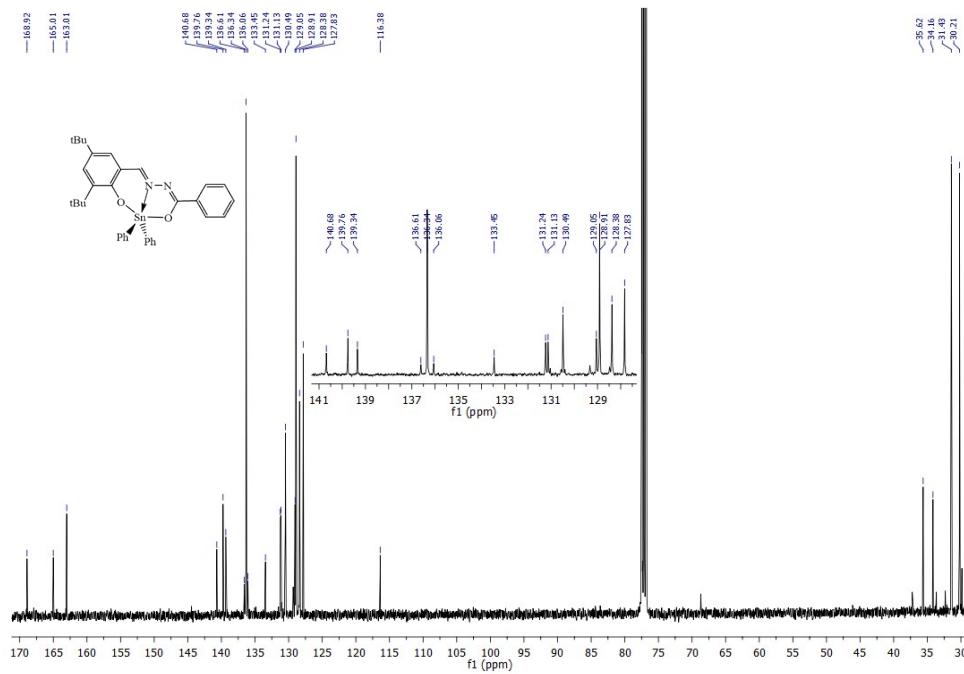
**Fig. S4.** The  $^1\text{H}/^1\text{H}$  COSY spectrum of compound 1.



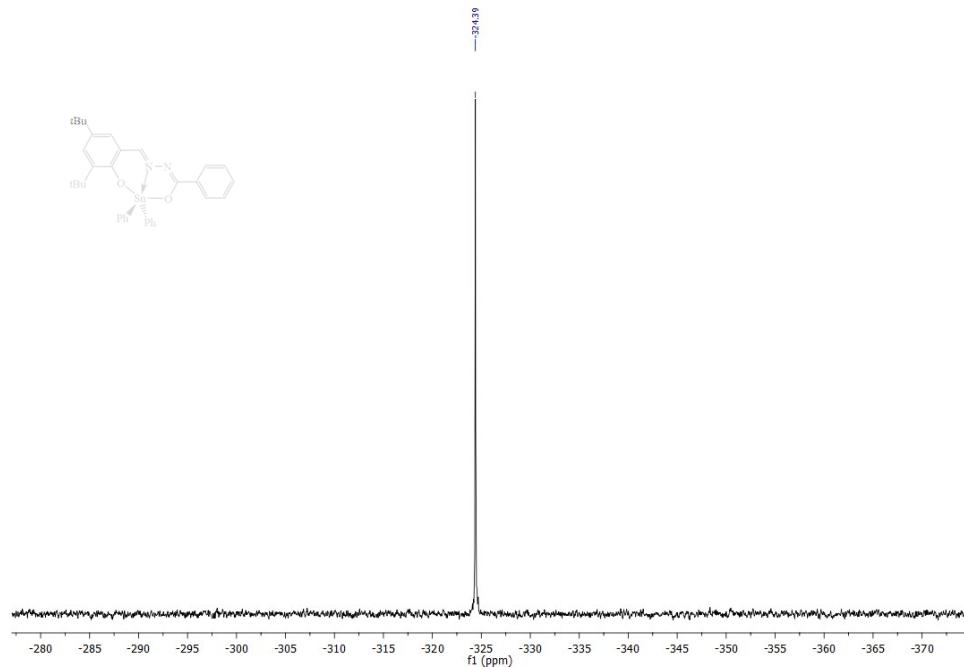
**Fig. S5.** The  $^1\text{H}/^{13}\text{C}$  HETCOR spectrum of compound 1.



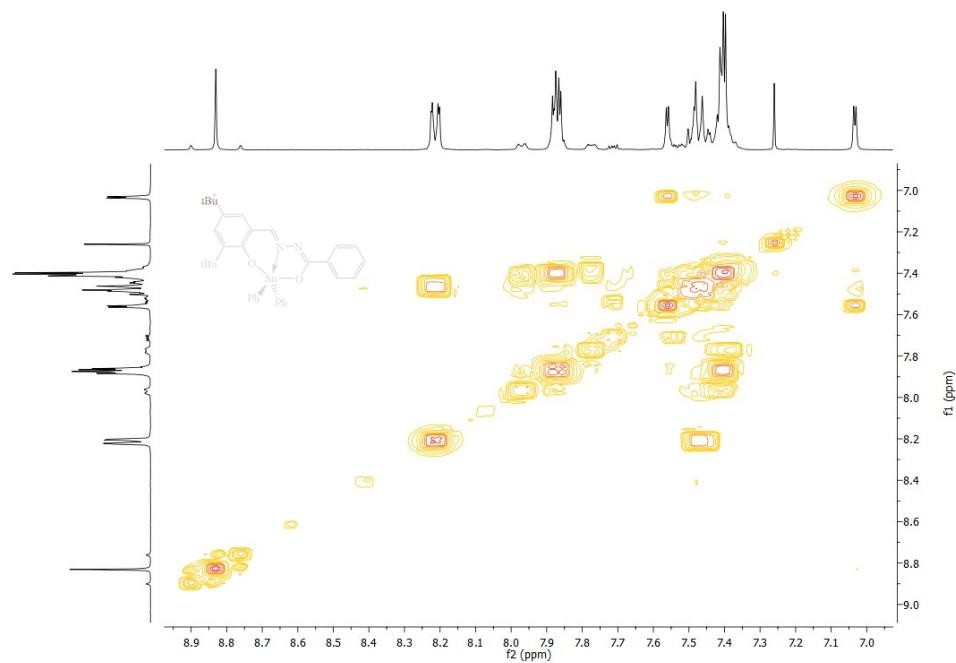
**Fig. S6.** The <sup>1</sup>H -NMR (400 MHz, CDCl<sub>3</sub>) spectrum of compound **2**.



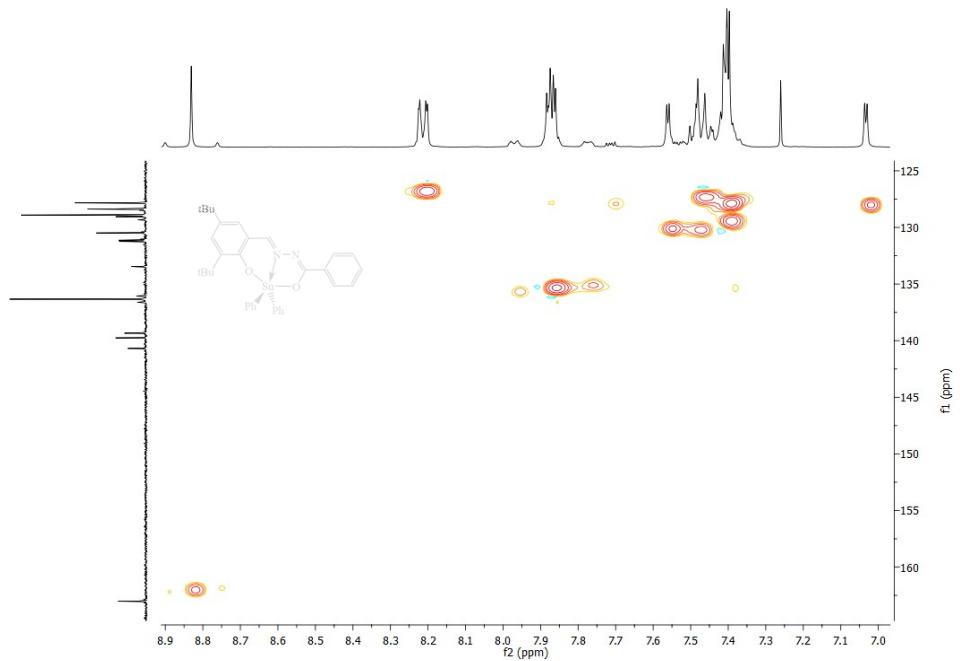
**Fig. S7.** The <sup>13</sup>C-NMR (100 MHz, CDCl<sub>3</sub>) spectrum of compound **2**.



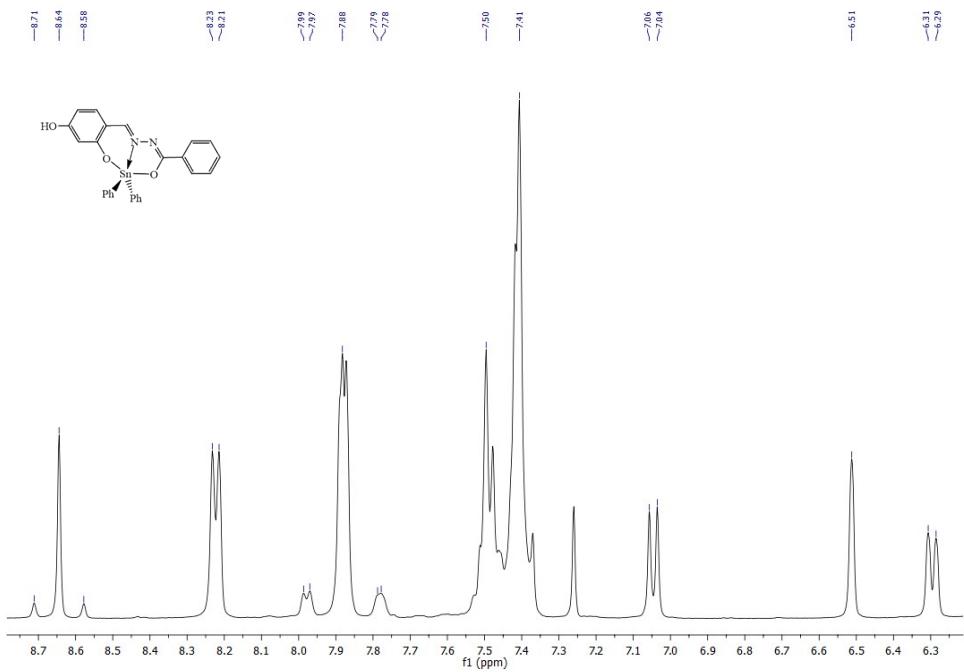
**Fig. S8.** The  $^{119}\text{Sn}$ -NMR (149.14 MHz,  $\text{CDCl}_3$ ) spectrum of compound 2.



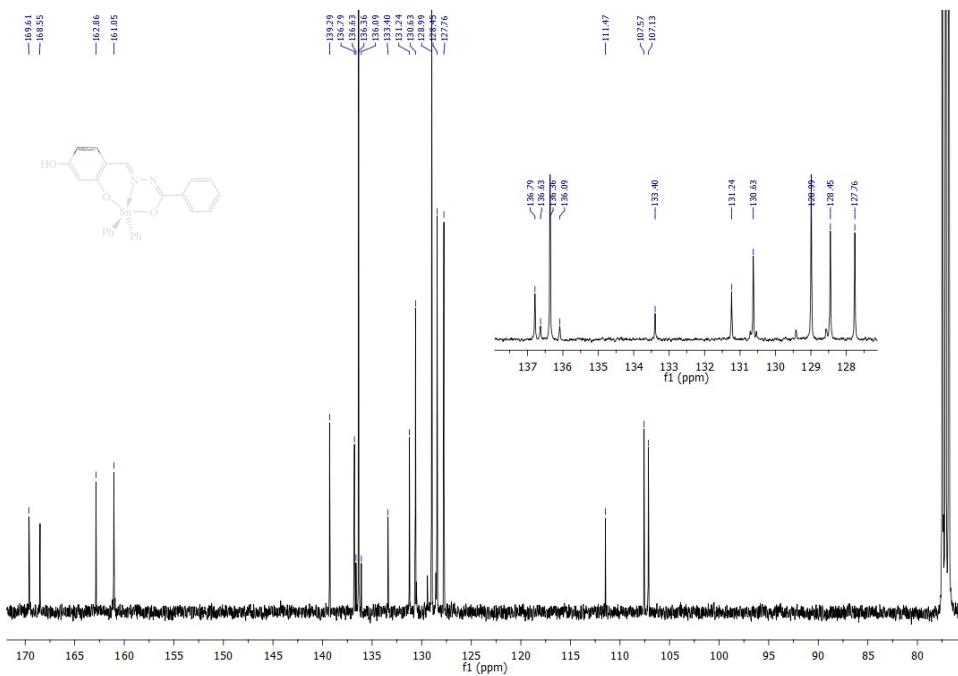
**Fig. S9.** The  $^1\text{H}/^1\text{H}$  COSY spectrum of compound 2.



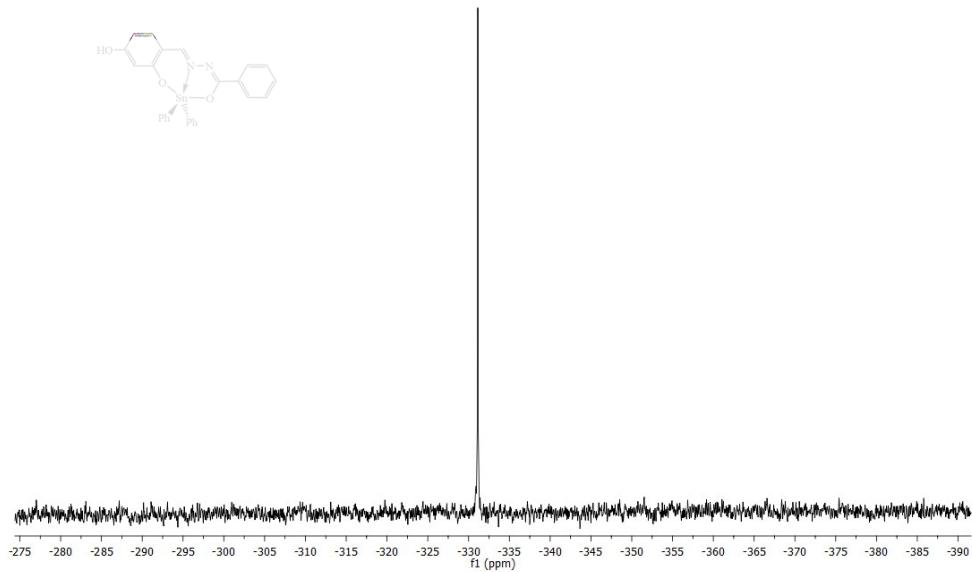
**Fig. S10.** The  $^1\text{H}/^{13}\text{C}$  HETCOR spectrum of compound 2.



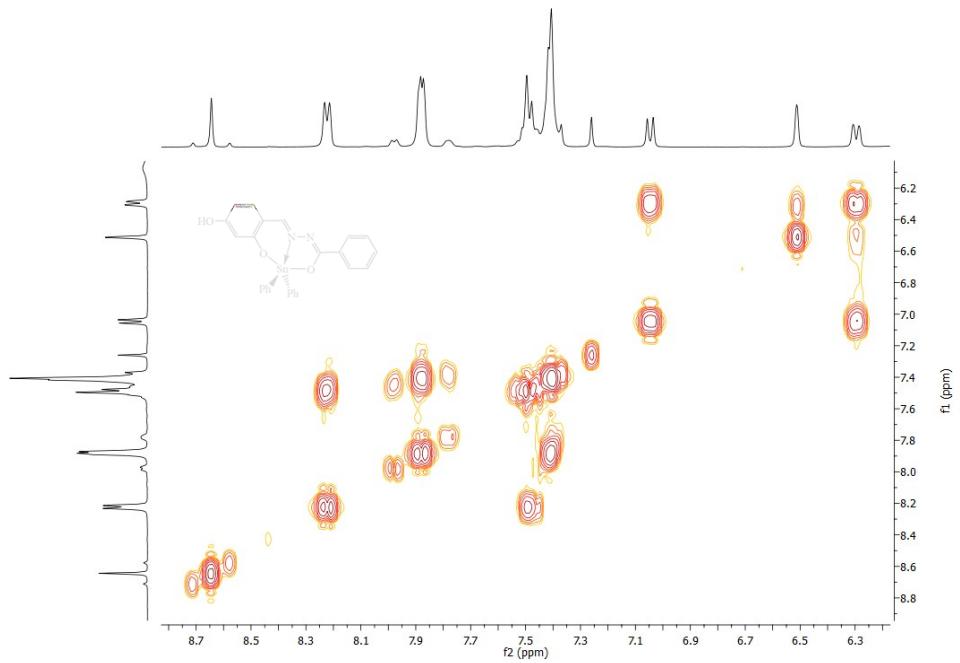
**Fig. S11.** The  $^1\text{H}$ -NMR (400 MHz,  $\text{CDCl}_3$ ) spectrum of compound 3.



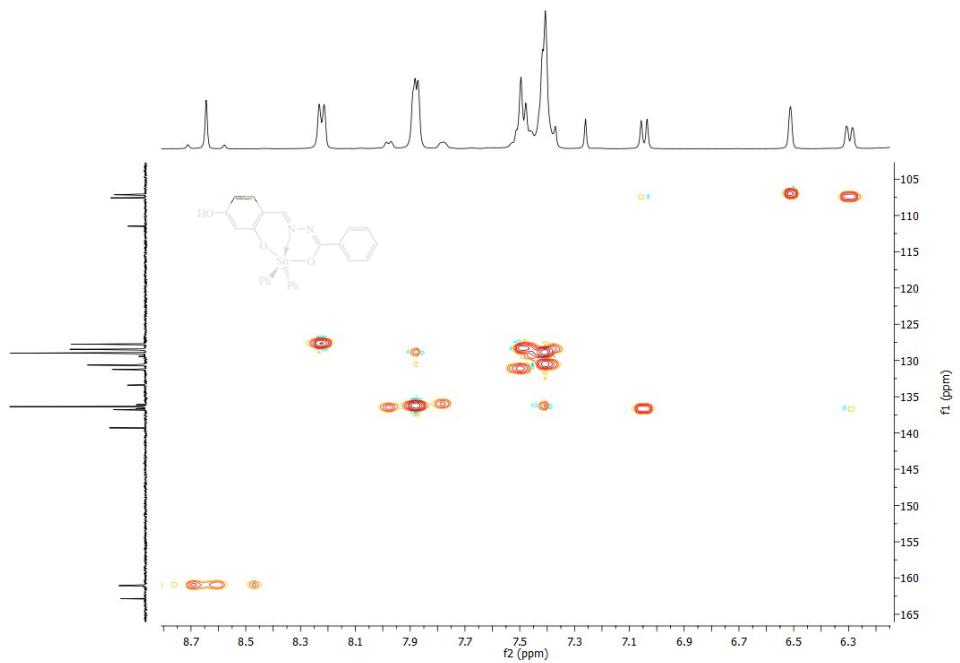
**Fig. S12.** The  $^{13}\text{C}$ -NMR (100 MHz,  $\text{CDCl}_3$ ) spectrum of compound 3.



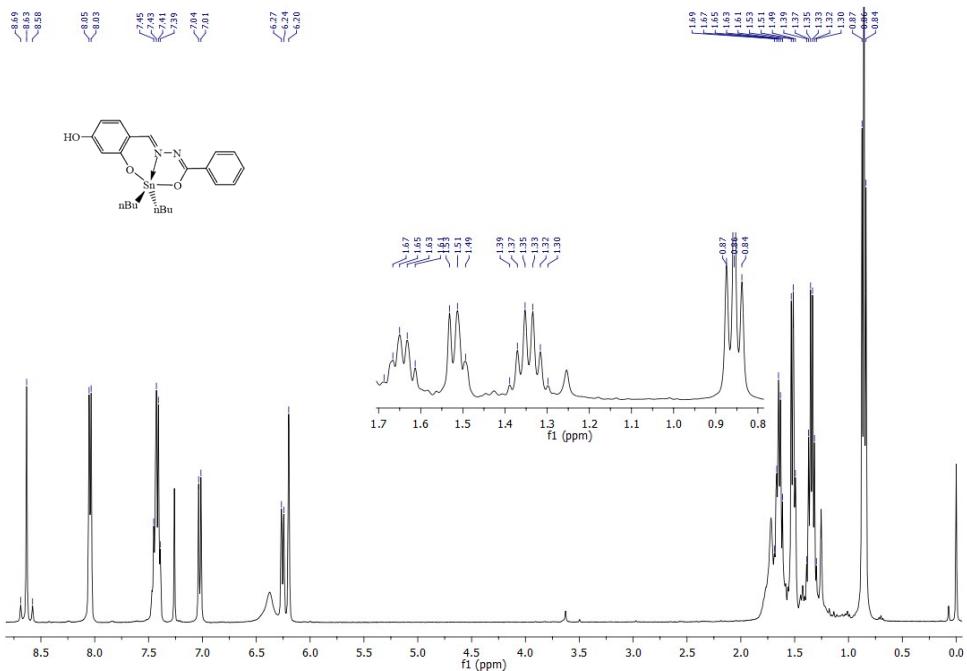
**Fig. S13.** The  $^{119}\text{Sn}$ -NMR (149.14 MHz,  $\text{CDCl}_3$ ) spectrum of compound 3.



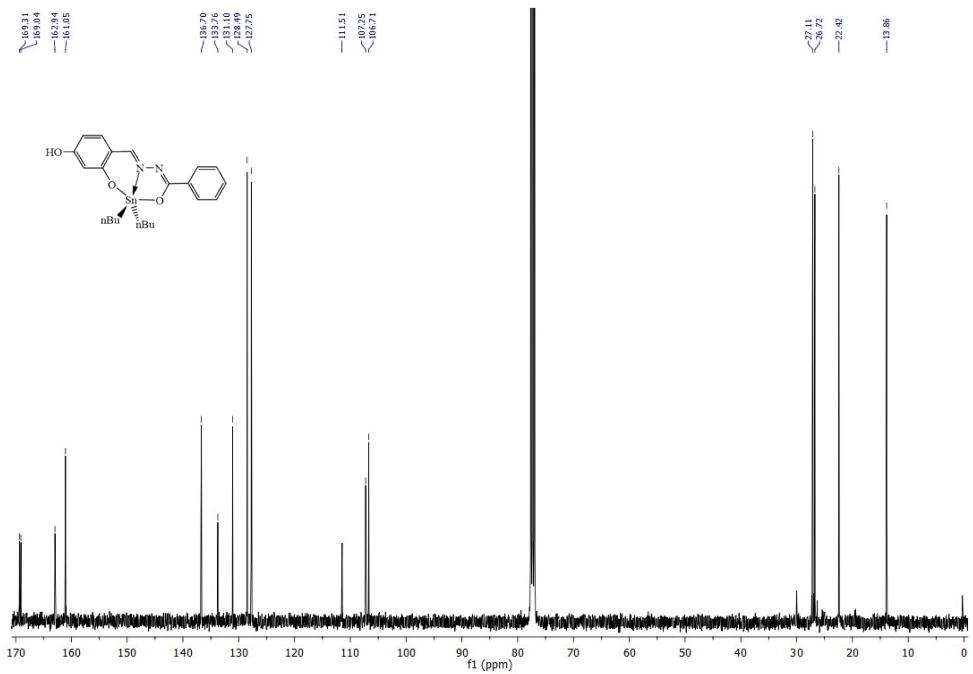
**Fig. S14.** The  $^1\text{H}/^1\text{H}$  COSY spectrum of compound 3.



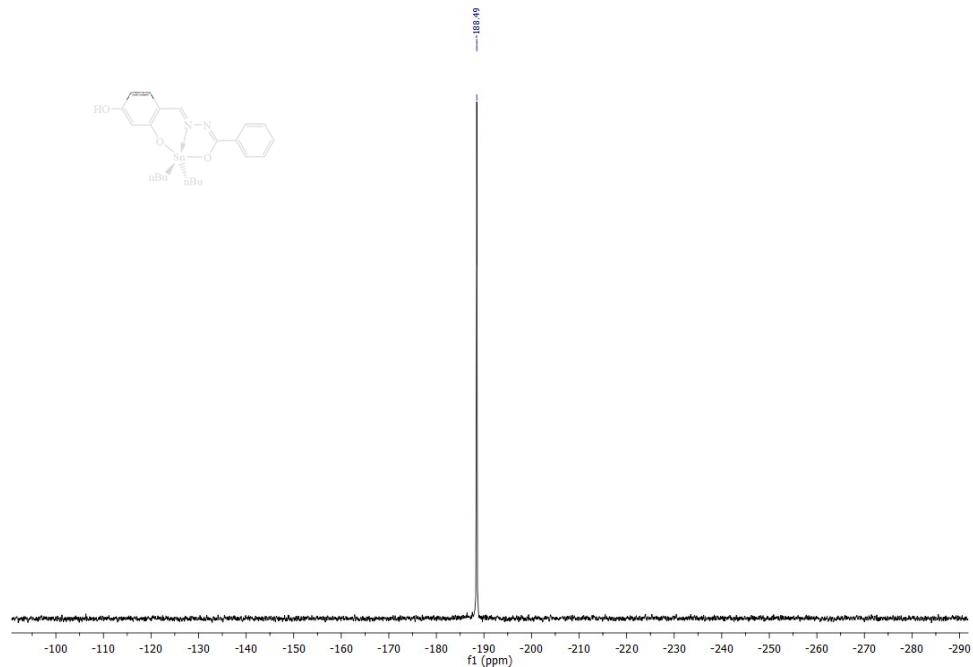
**Fig. S15.** The  $^1\text{H}/^{13}\text{C}$  HETCOR spectrum of compound 3.



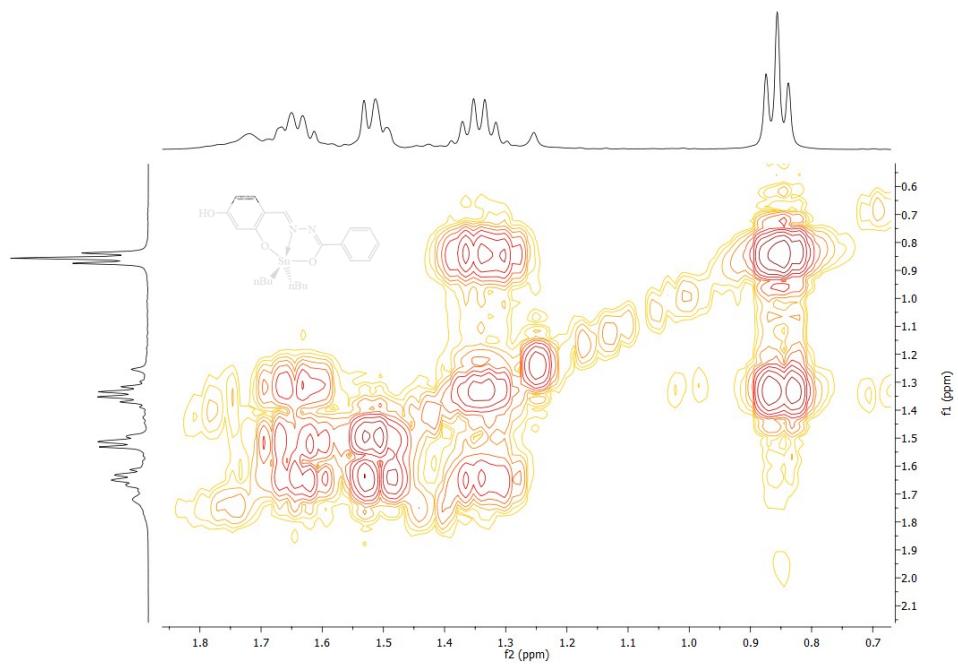
**Fig. S16.** The  $^1\text{H}$ -NMR (400 MHz,  $\text{CDCl}_3$ ) spectrum of compound 4.



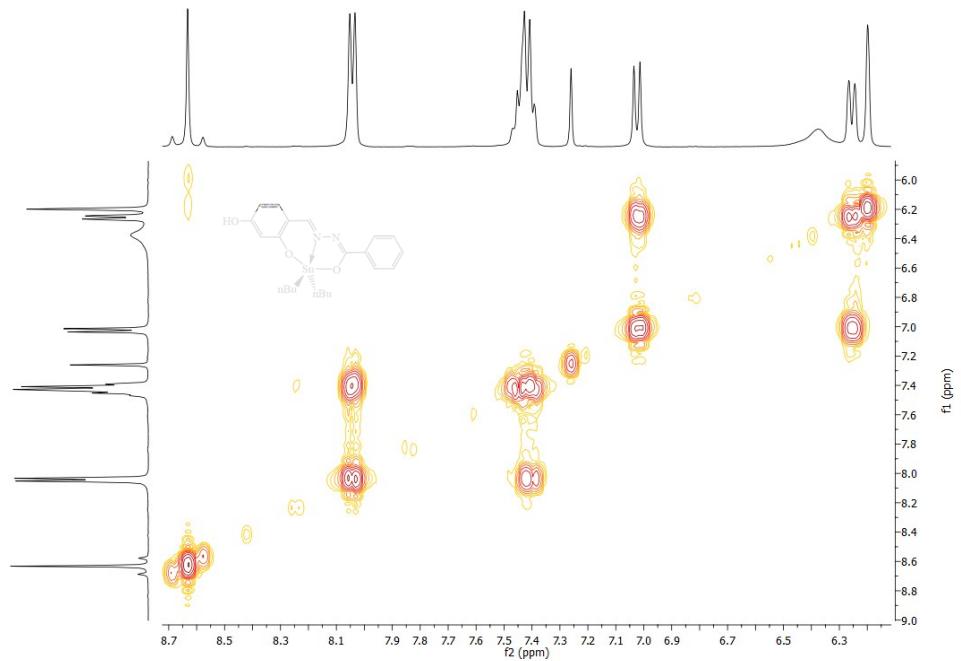
**Fig. S17.** The  $^{13}\text{C}$ -NMR (100 MHz,  $\text{CDCl}_3$ ) spectrum of compound 4.



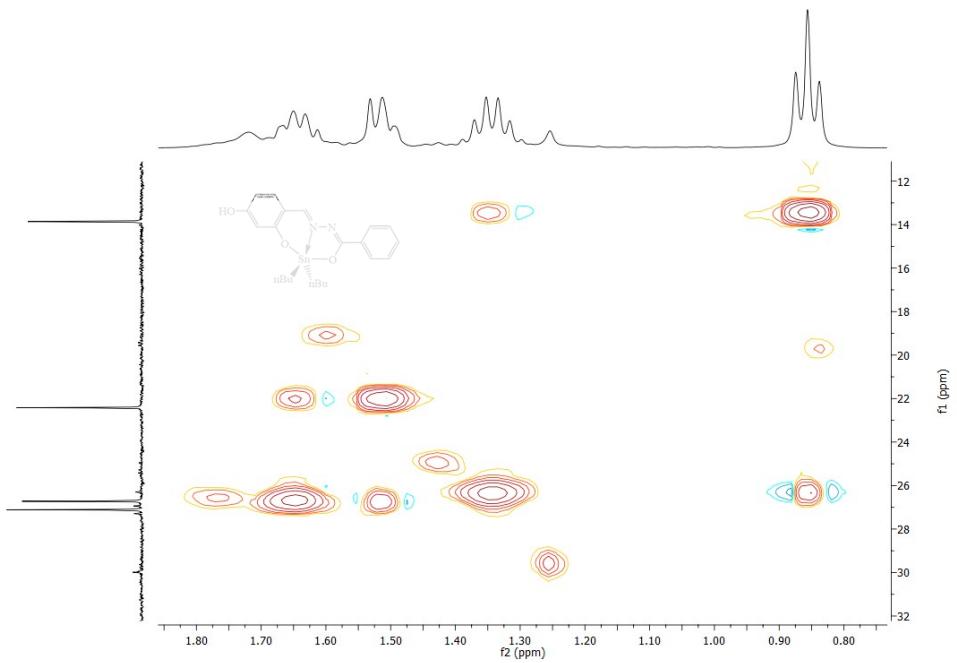
**Fig. S18.** The  $^{119}\text{Sn}$ -NMR (149.14 MHz,  $\text{CDCl}_3$ ) spectrum of compound 4.



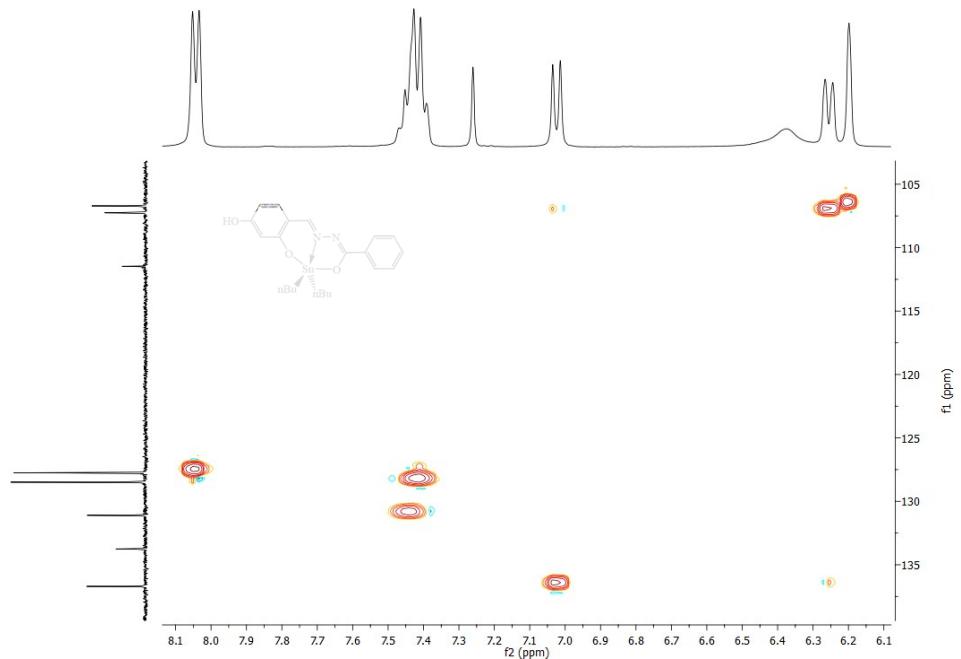
**Fig. S19.** The  $^1\text{H}/^1\text{H}$  COSY spectrum of compound 4 (aliphatic region).



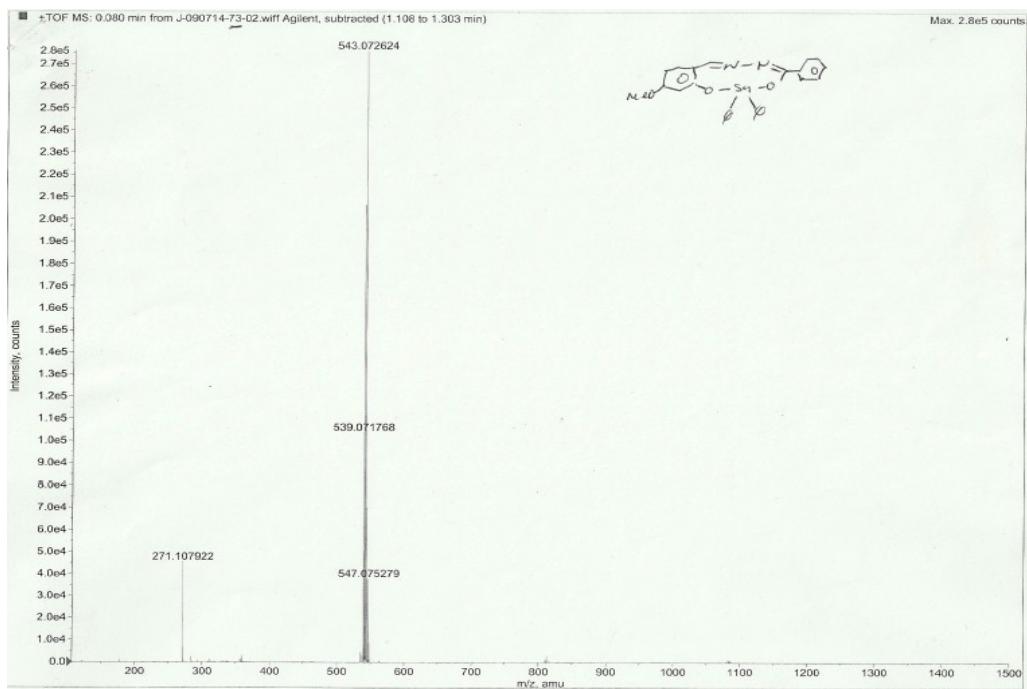
**Fig. S20.** The  $^1\text{H}/^1\text{H}$  COSY spectrum of compound 4 (aromatic region).



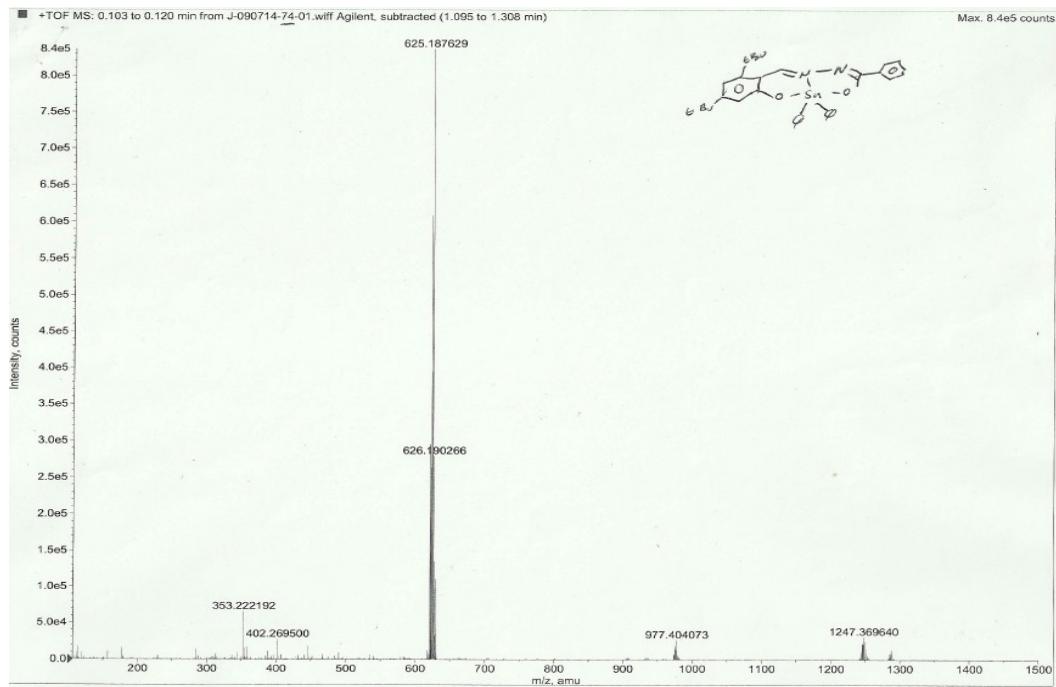
**Fig. S21.** The  $^1\text{H}/^{13}\text{C}$  HETCOR spectrum of compound 4 (aliphatic region).



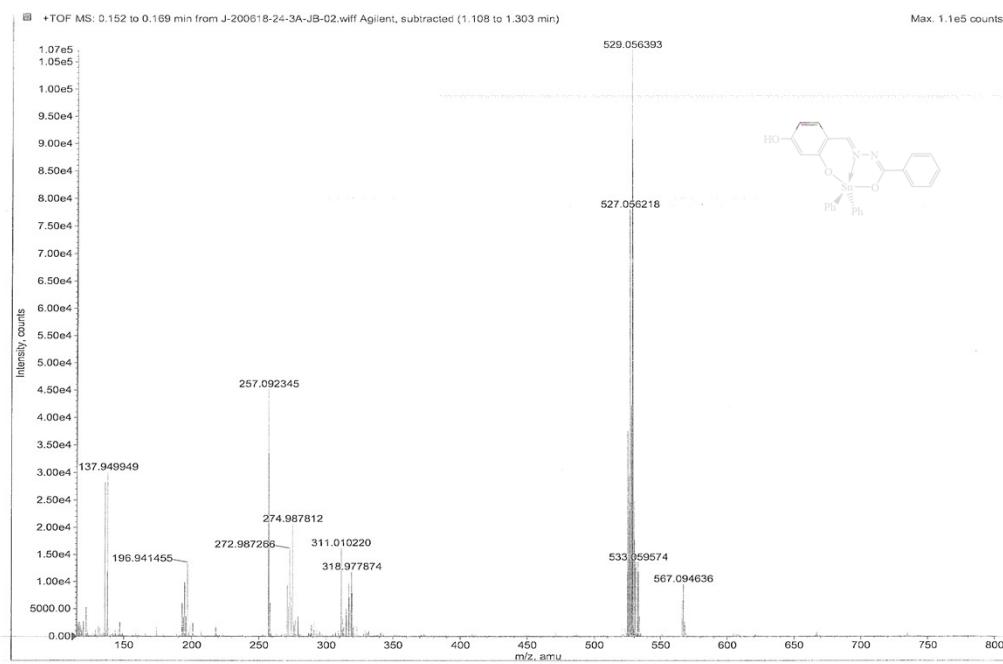
**Fig. S22.** The  $^1\text{H}/^{13}\text{C}$  HETCOR spectrum of compound **4** (aromatic region).



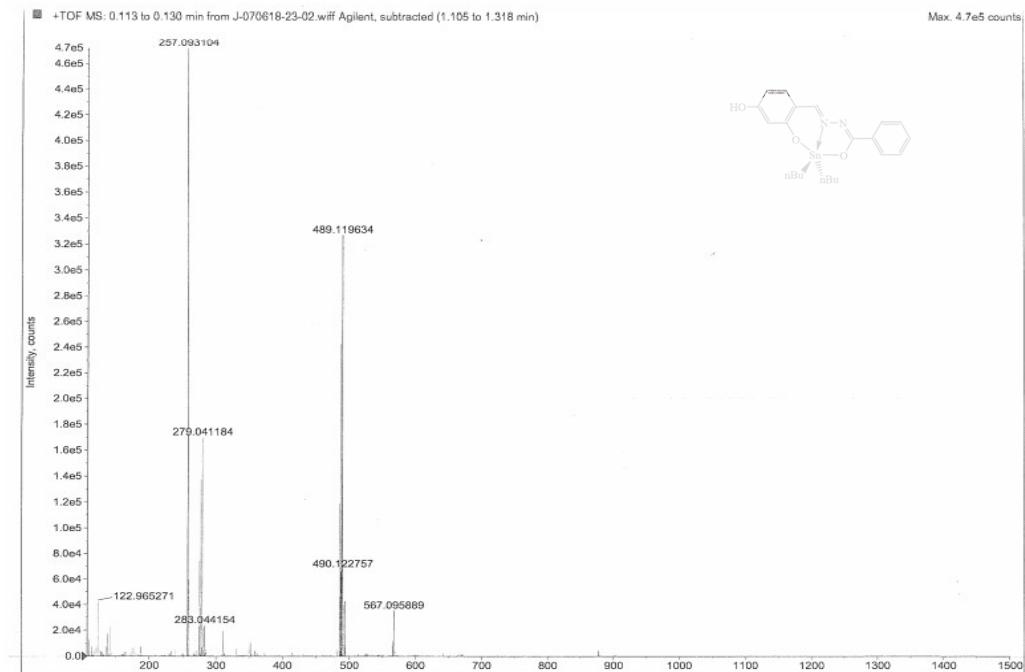
**Fig. S23.** The Mass spectrum of compound **1**.



**Fig. S24.** The Mass spectrum of compound 2.



**Fig. S25.** The Mass spectrum of compound 3.



**Fig. S26.** The Mass spectrum of compound 4.