

SUPPLEMENTARY MATERIALS

S1. Spectroscopic analysis

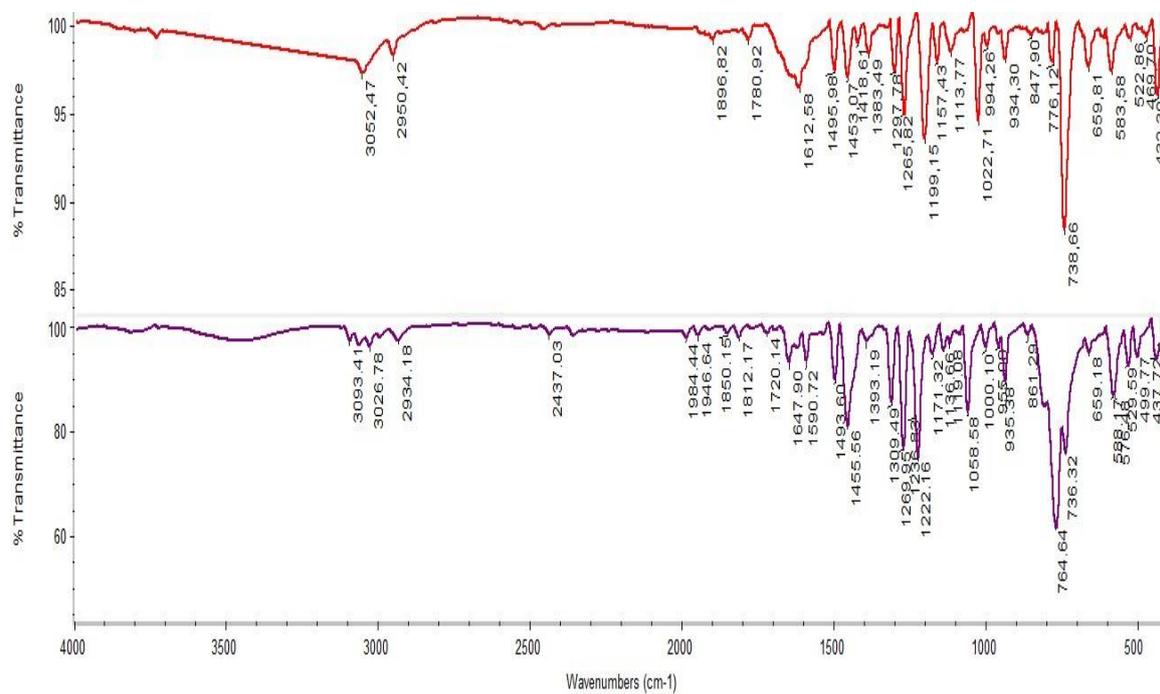


Figure S1. The FT-IR spectrum of complex $[(\text{CH}_3)_2\text{SnCl}_2(\text{mebta})_2]$ (**1**) presented with purple and the FT-IR spectrum of 1-methylbenzotriazole presented in red.

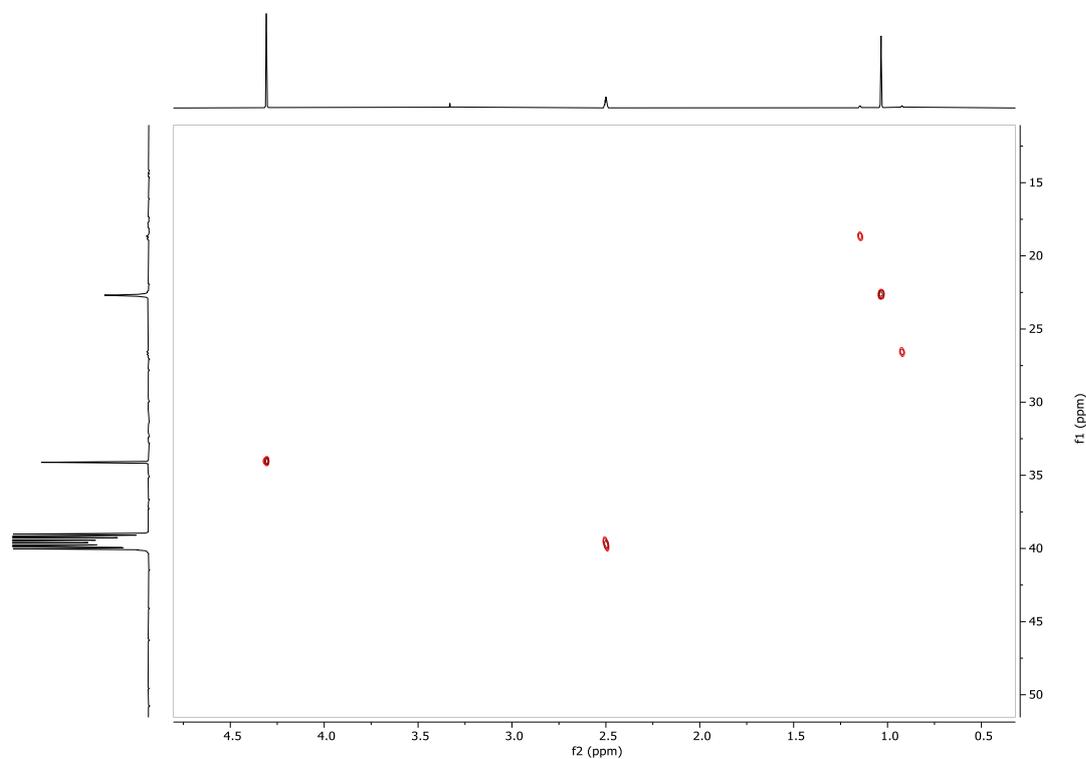
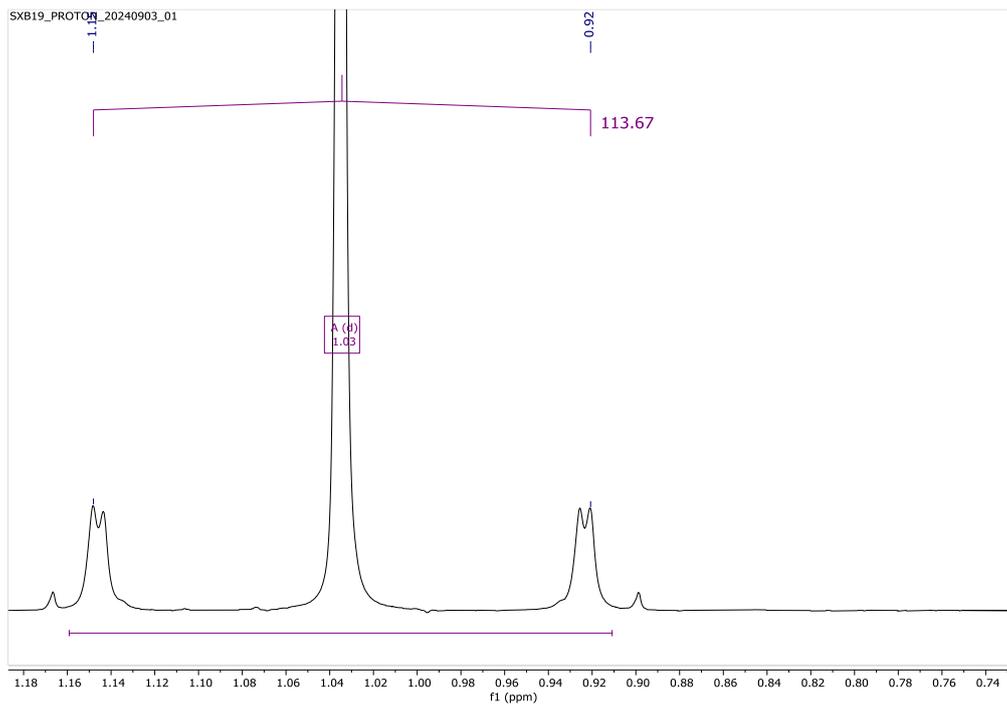
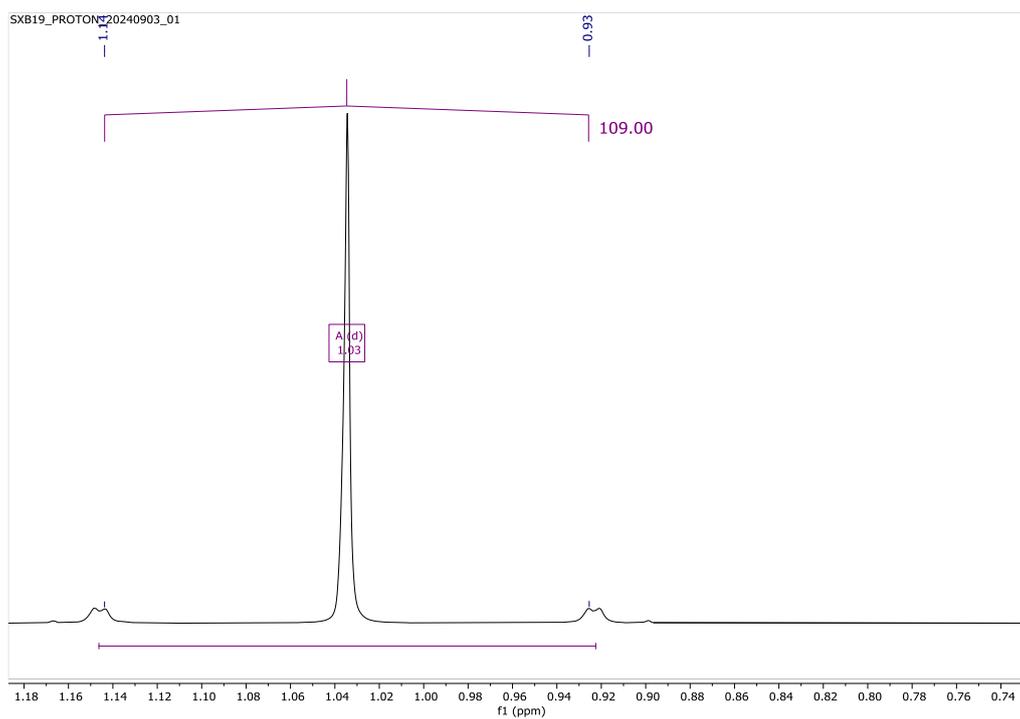


Figure S2. The HSQC spectrum of complex **1** in the aliphatic region.



$2J(^1\text{H}, ^{119}\text{Sn})$



$2J(^1\text{H}, ^{117}\text{Sn})$

Figure S3. Calculation of the $^{117/119}\text{Sn}$ - ^1H couplings with the aid of the satellites of the Sn-CH₃ group.

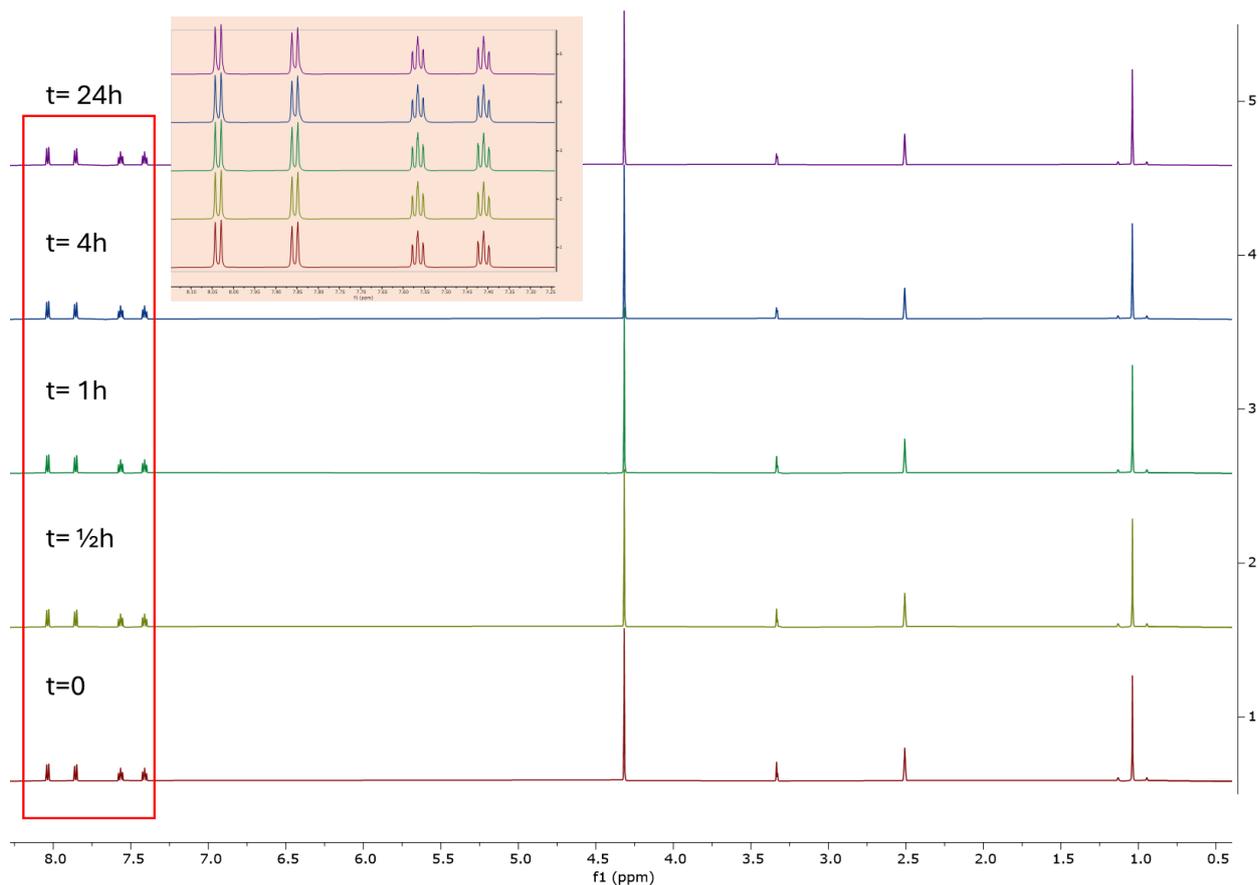


Figure S4. The ^1H NMR spectra of complex $[(\text{CH}_3)_2\text{SnCl}_2(\text{mebta})_2]$ (**1**) at different incubation times ($t=0, 0.5\text{h}, 1\text{h}, 4\text{h}$ and 24h). Within the red square the region 7.3 to 8.5 has been zoomed in.

S2. Description of the molecular structure and packing

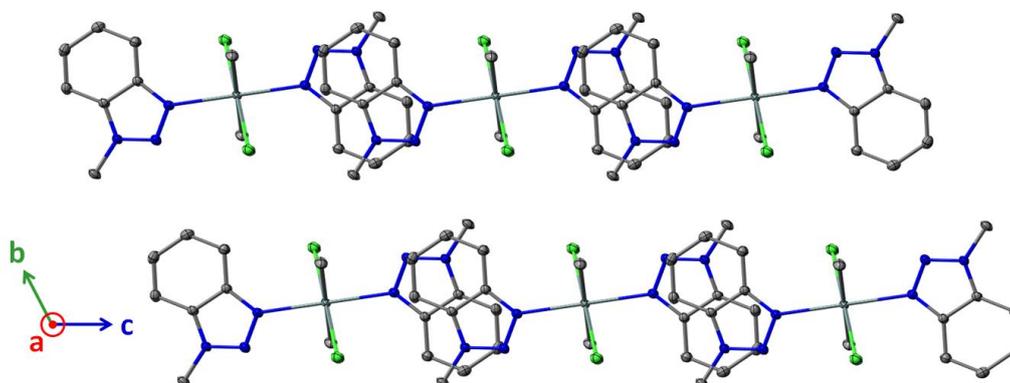


Figure S5. Projection of the crystal structure along the (bc) plane, showing the packing of the 2D supramolecular network along the (ac) plane. The thermal ellipsoids are depicted for the non-H atoms at the 50 % probability level. C: grey, H: white, N: blue, O: red, Cl: light green, Sn: cyan.