

Supporting information of

Synthesis and Characterization of Octahedral Co^{III} Complex of Pyrrolopyrrolizine Derivative Created with Dicyanovinylene-bis(*meso*-Aryl)-Dipyrrin

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Content

1. Crystallographic projections	page 2
2. Mass spectrum	page 3
3. NMR spectra	page 4
4. FT-IR spectrum	page 8

1. Crystallographic projections

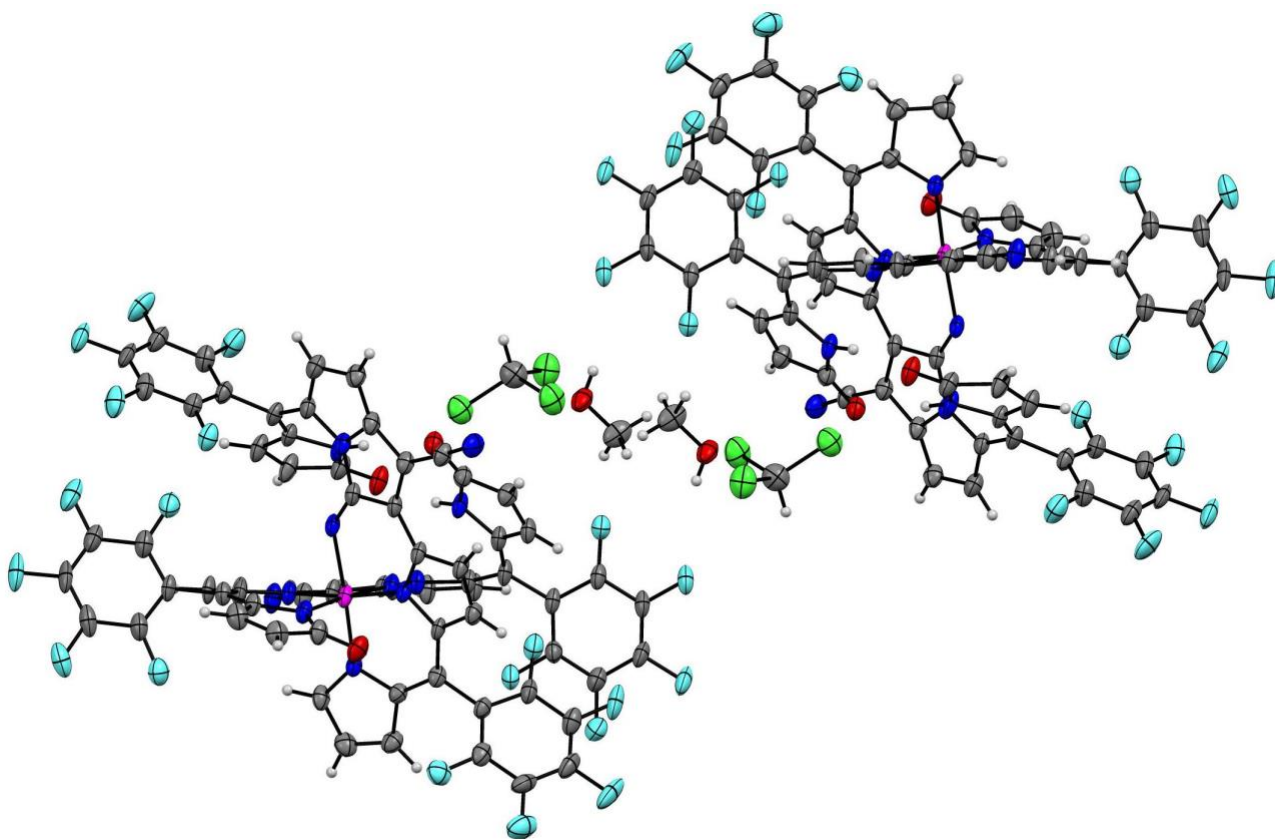
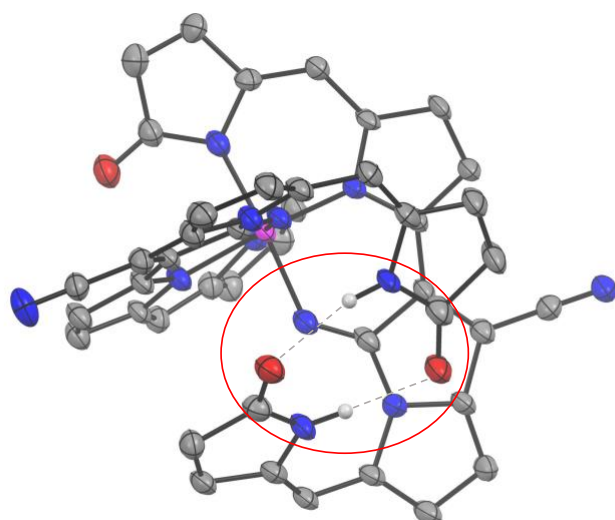


Fig. S1 Crystal structure showing an enantiomeric set of the crystal structure of **1** and the solvent (chloroform and methanol) molecules.

(a)



(b)

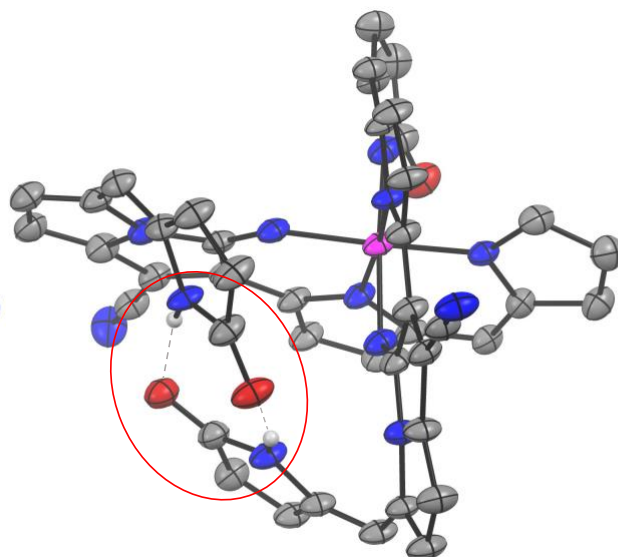


Fig. S2 Crystal structure of **1**: (a) top view and (b) side view. *Meso*-aryls and hydrogen atoms except the disordered atoms forming hydrogen bonds are omitted for clarify. Hydrogen bonds for the disordered $\text{NH}\cdots\text{O}$ were measured in 2.871 and 2.909 Å.

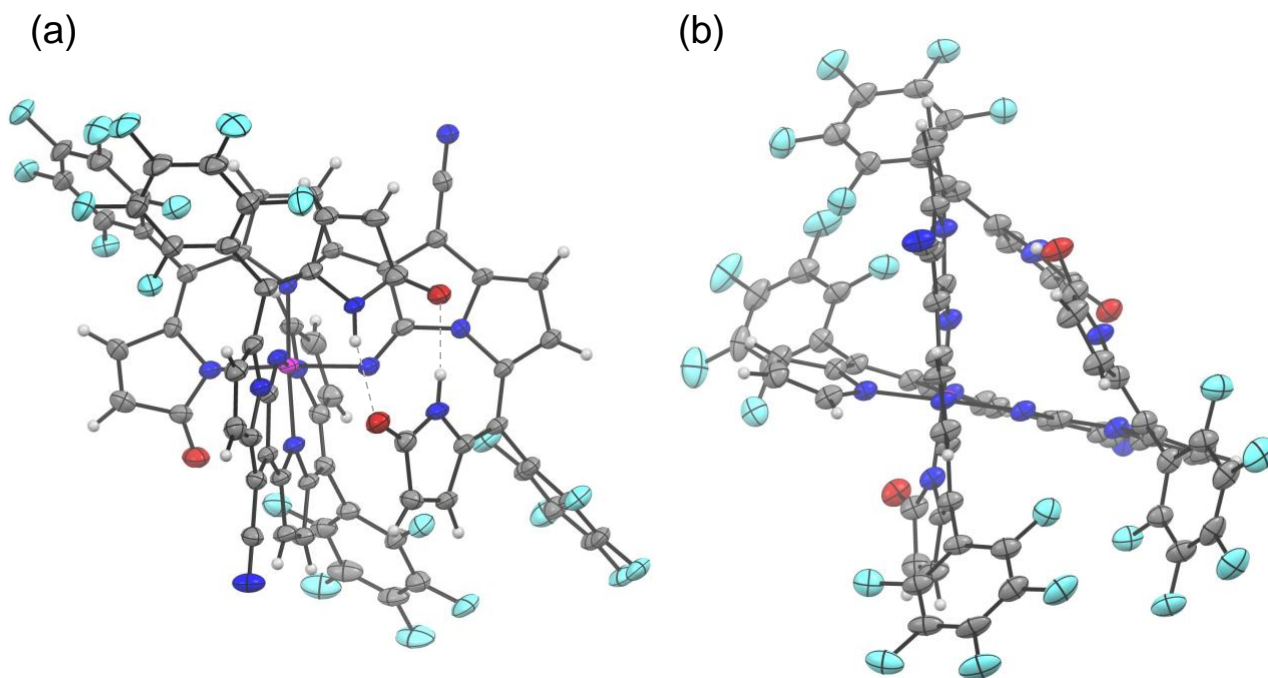


Fig. S3 Crystal structure of 1: (a) top view and (b) side view: The ellipsoid value was set in 50%.

2. Mass spectrum of 1

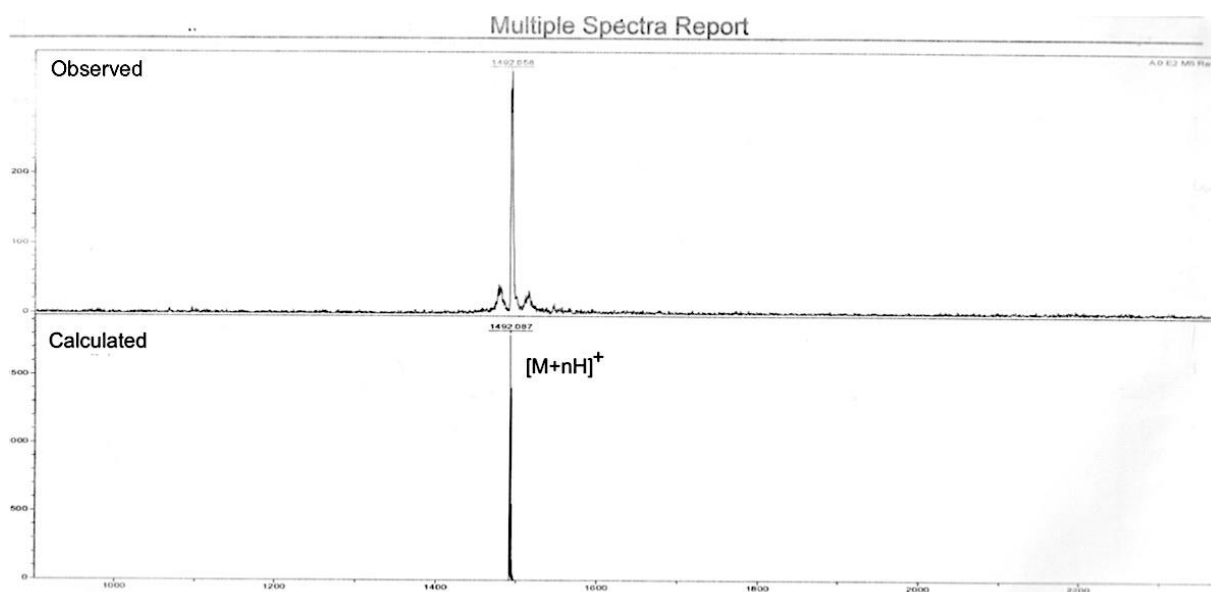


Fig. S4 MALDI-TOF mass spectrum of 1.

3. NMR spectra of 1

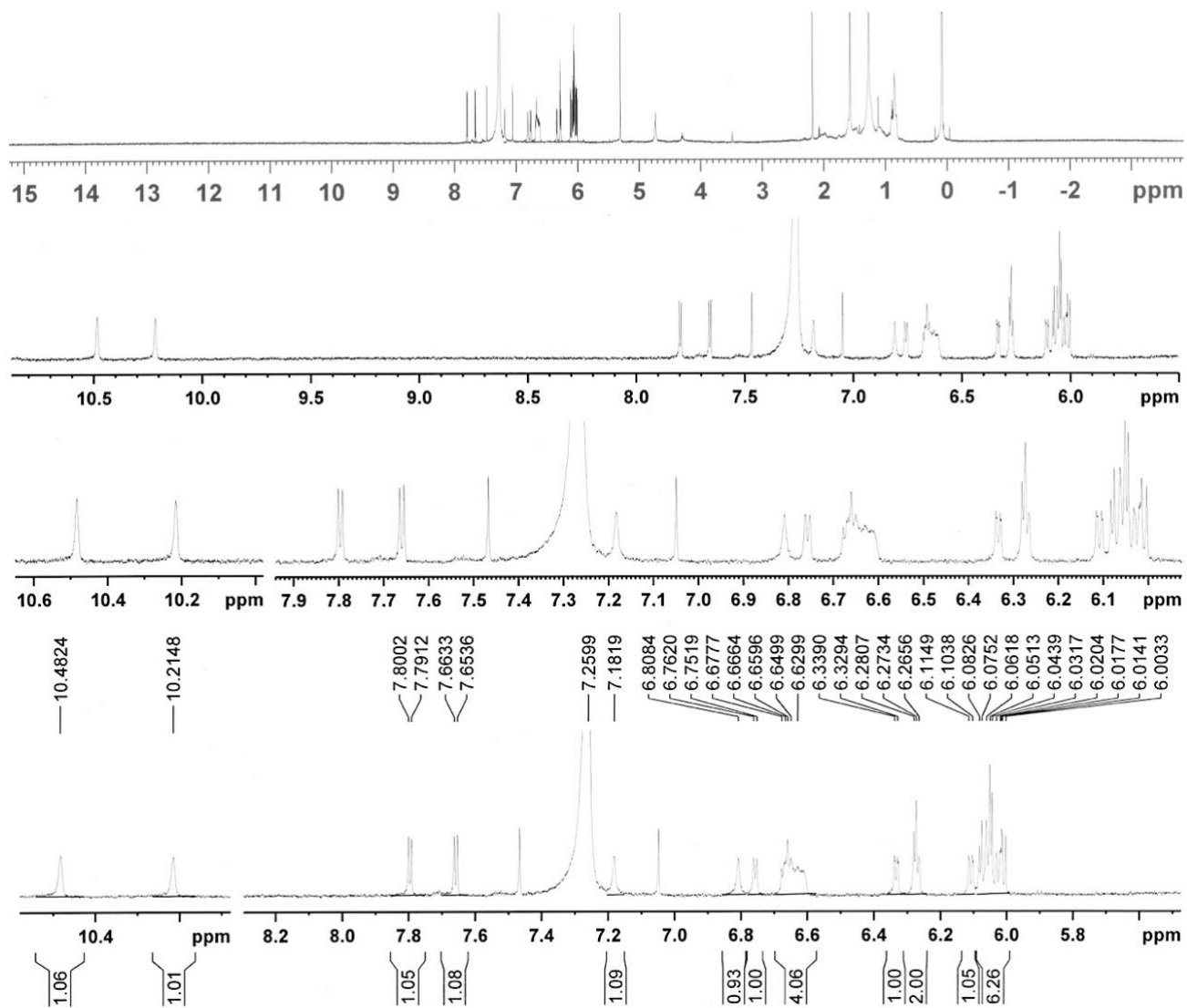


Fig. S5 ^1H NMR (500 MHz) spectrum of 1 in CDCl_3 .

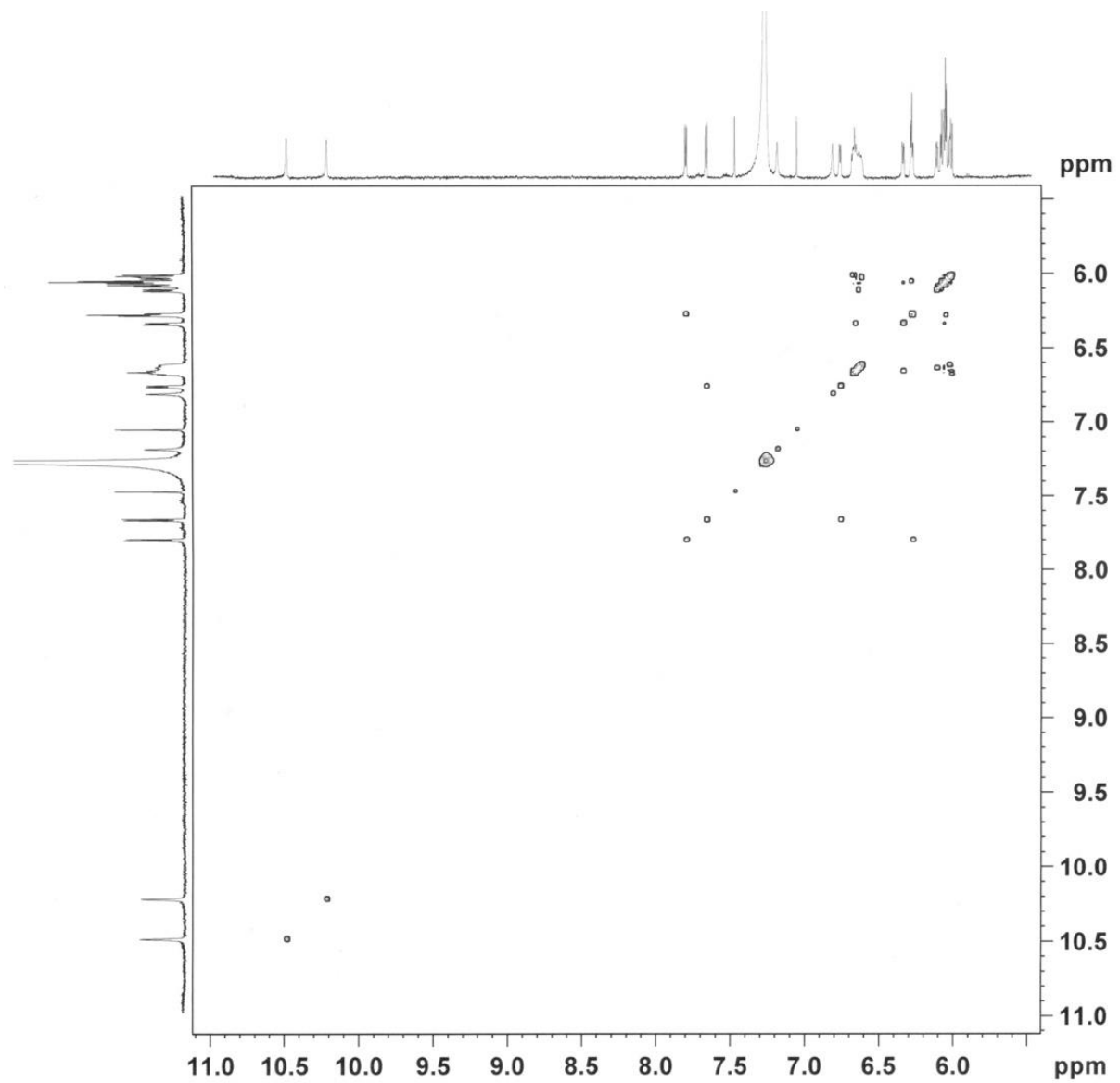


Fig. S6 HH-COSY NMR (F1 channel = F2 channel = 500 MHz) spectrum of **1** in CDCl₃.

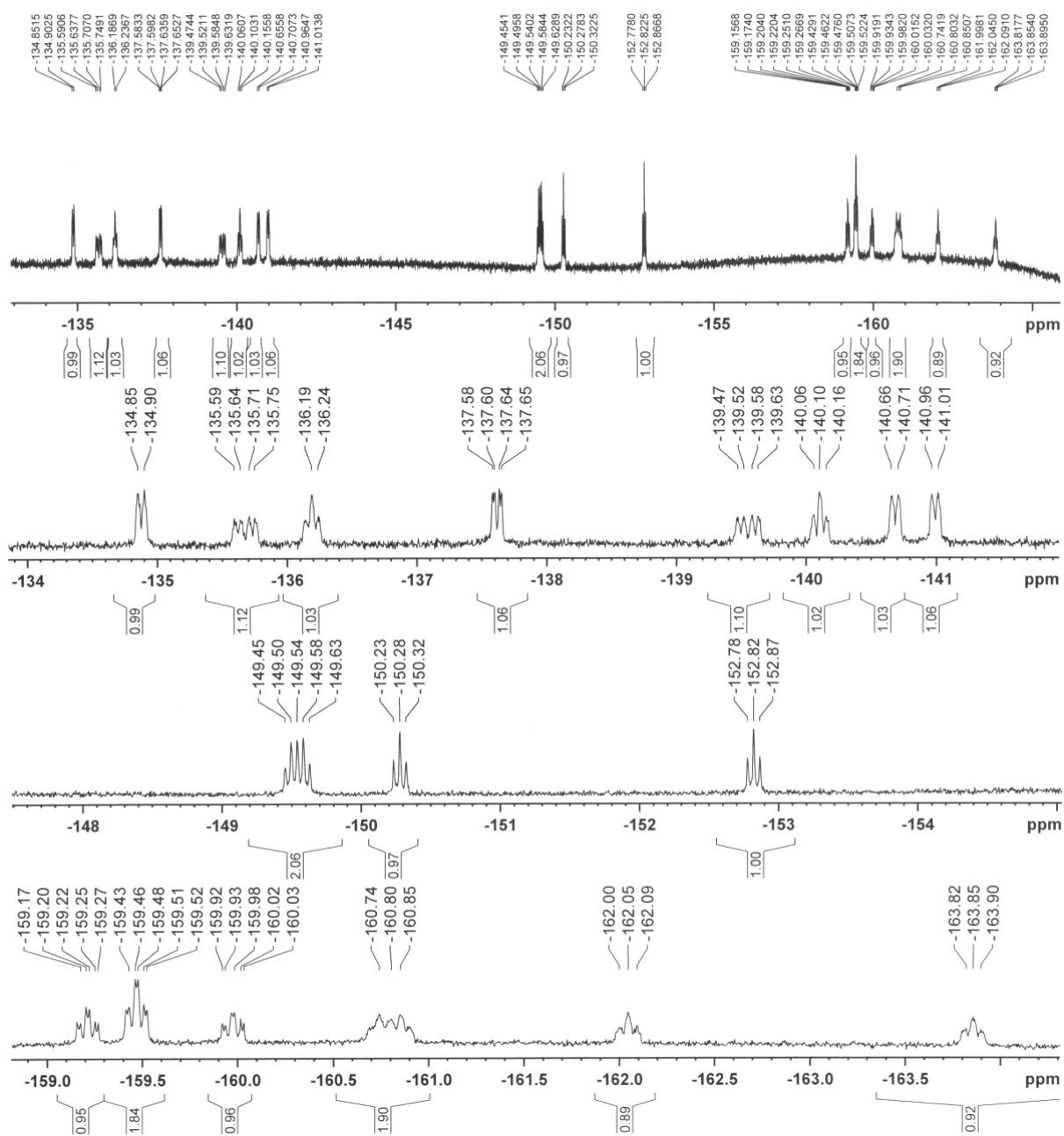


Fig. S7 ^{19}F NMR (470.57 MHz) Spectrum of **1** in CDCl_3 .

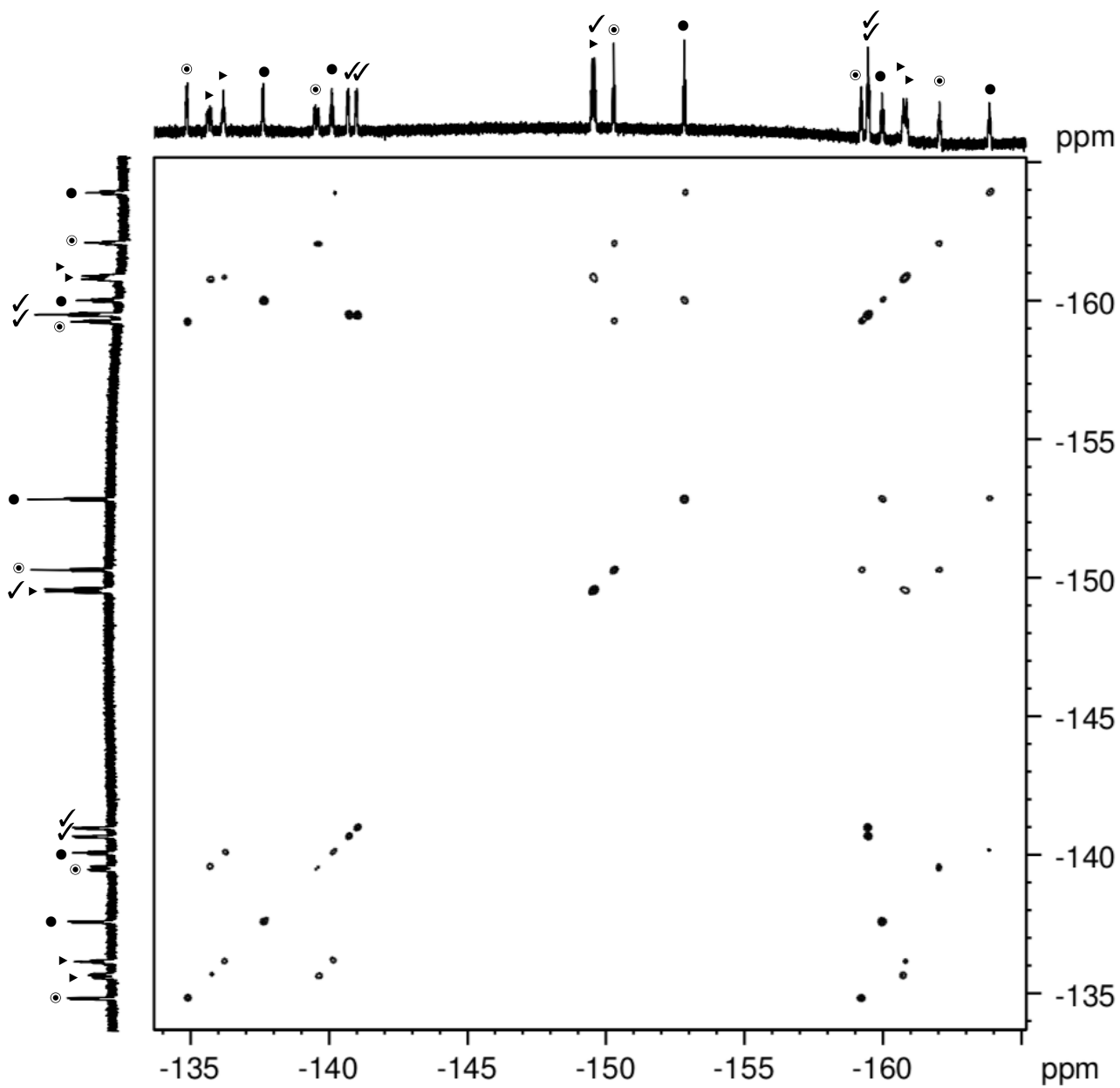


Fig. S8 FF COSY NMR ($F_1 = F_2 = 470.57$ MHz) spectrum of **1** in $CDCl_3$.

4. FT-IR Spectrum of 1

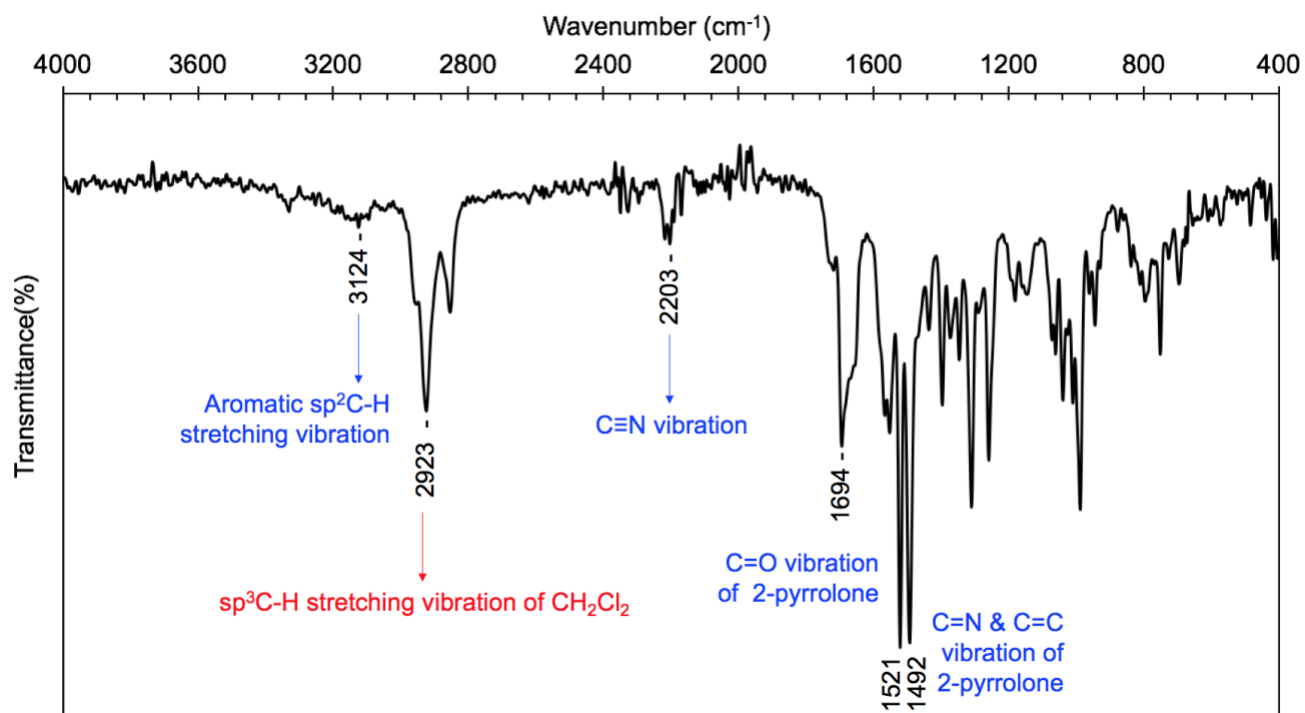


Fig. S9 FT-IR spectrum of 1 (CH_2Cl_2).