

Supporting Information:

**Ruthenium–Cobalt Bimetallic Supramolecular Cages via a Less
Symmetric Tetrapyridyl Metalloligand and the Effect of Spacer Units**

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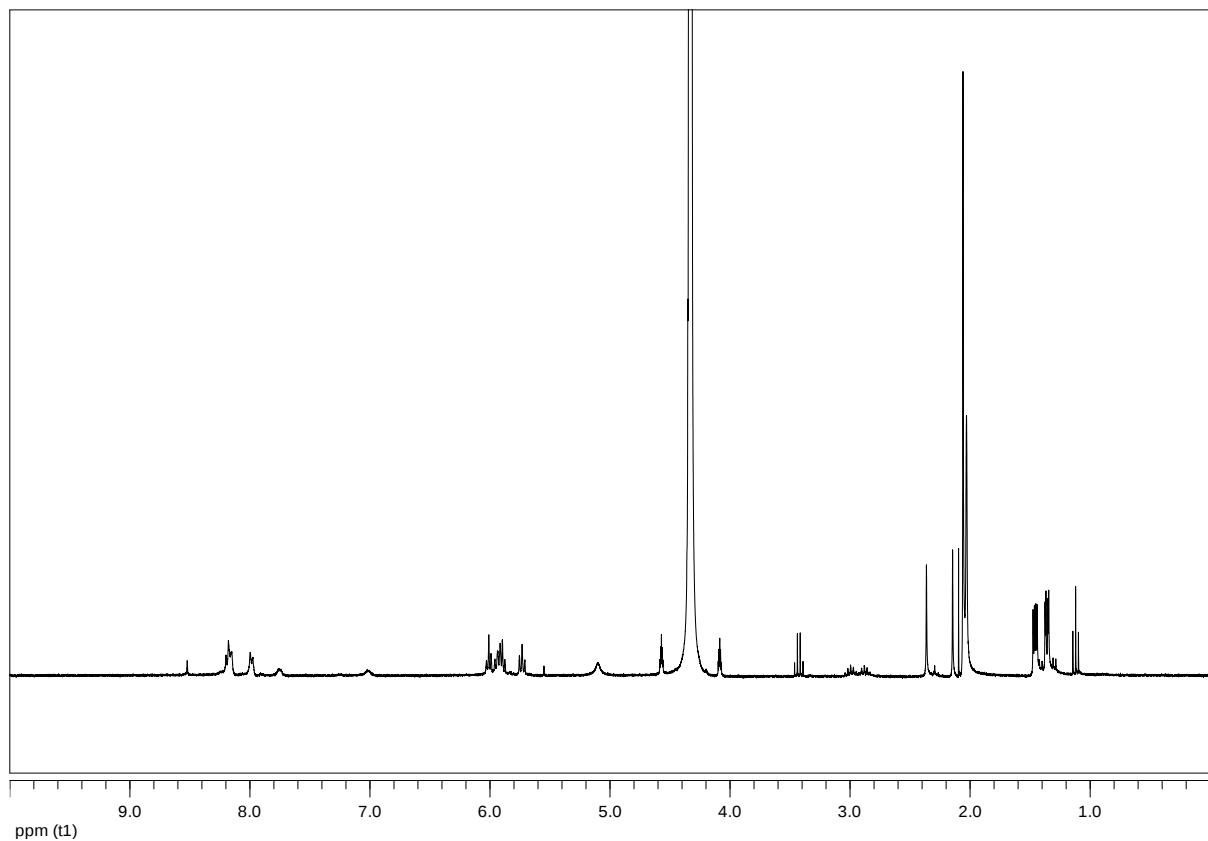
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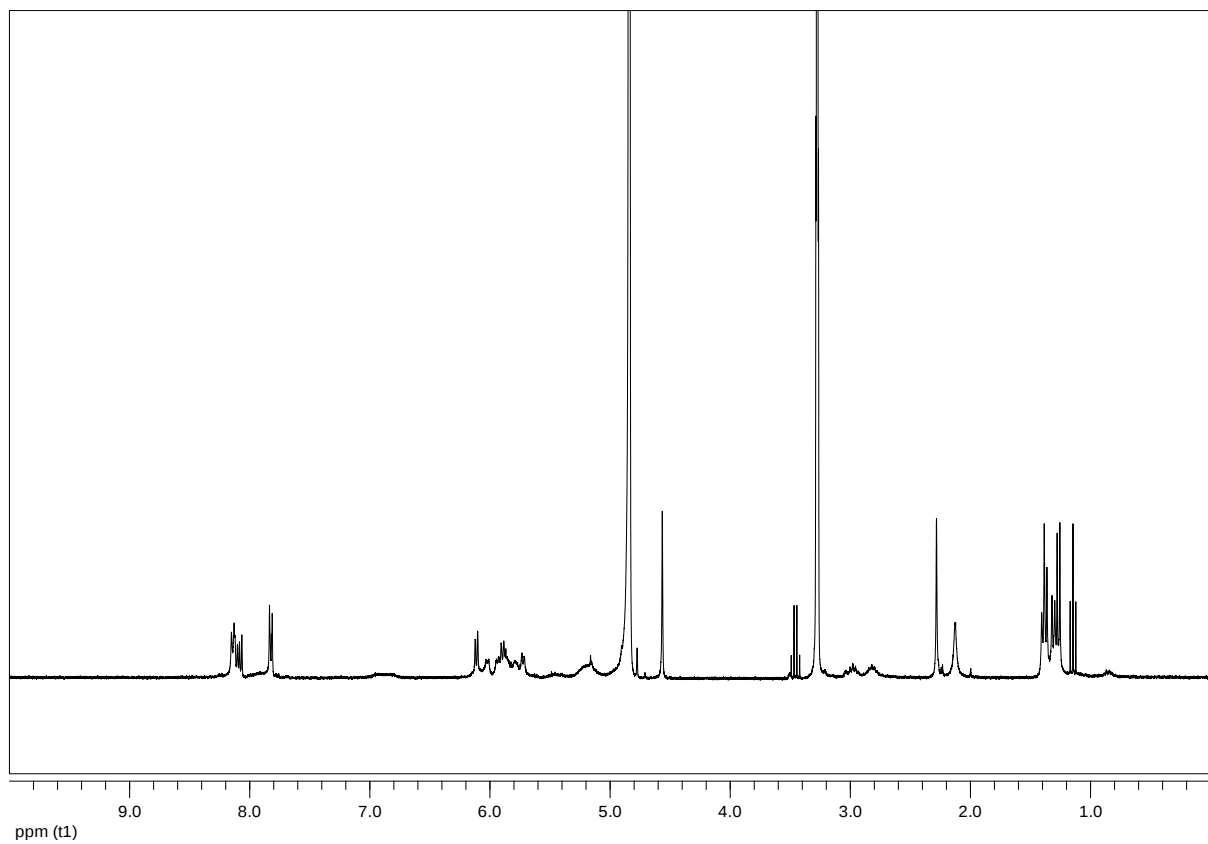
1. ¹H NMR spectra of compounds 6–8	S2
2. DOSY spectra of compound 7	S4
3. Mass spectra of compounds 6–8	S5

1. ^1H NMR spectra of compounds 6–8

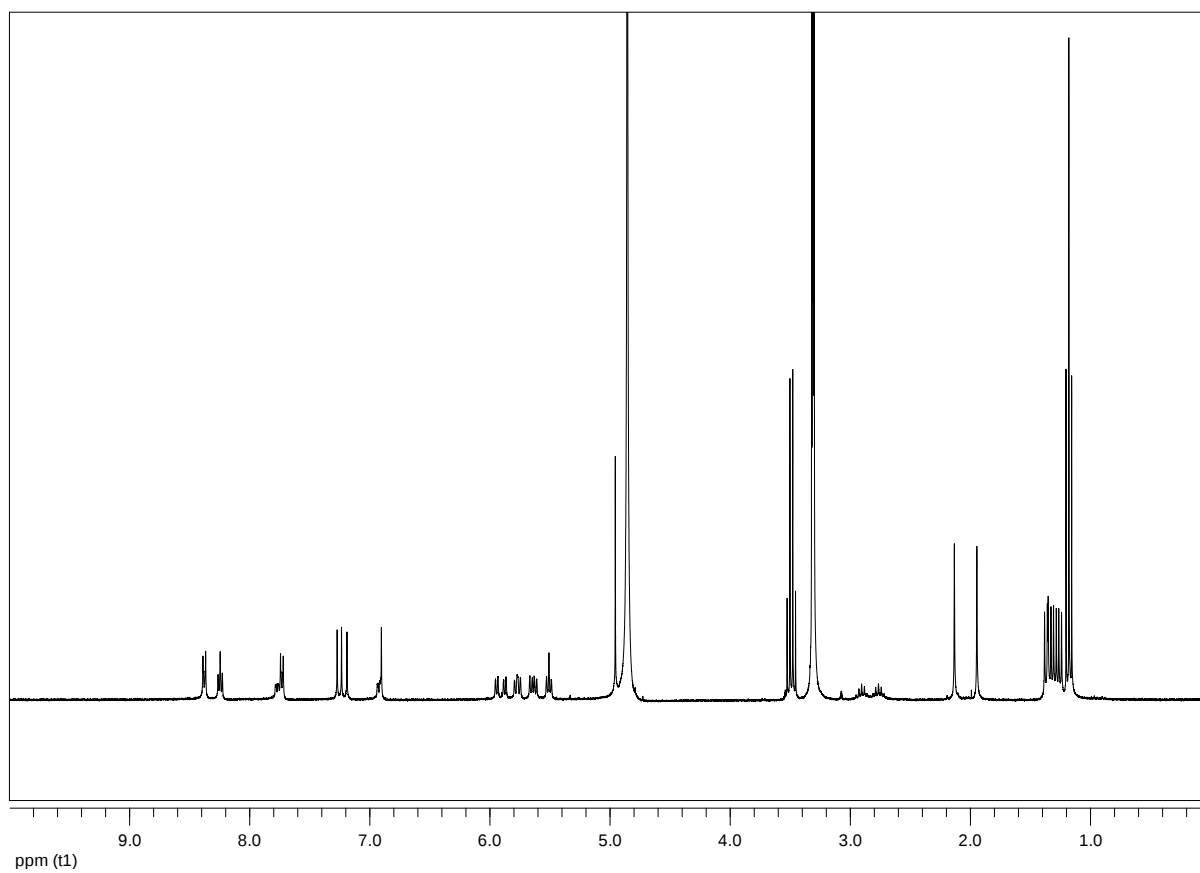
(1) Figure S1. ^1H NMR spectrum of **6**



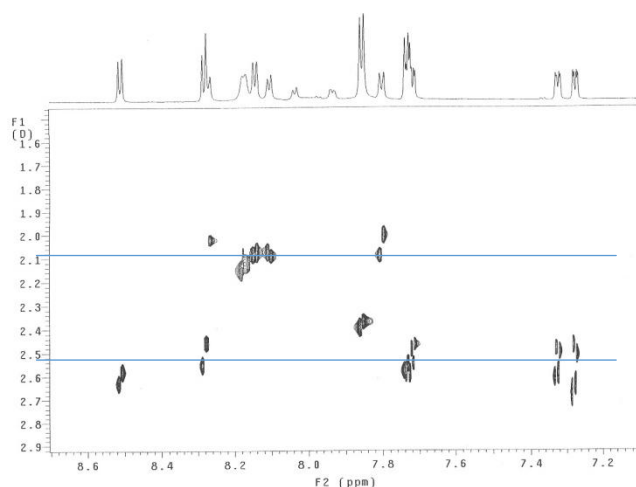
(2) Figure S2. ^1H NMR spectrum of **7**



(3) Figure S3. ^1H NMR spectrum of **8**



2. DOSY NMR spectra of compound 7



→ $D = 2.1 \times 10^{-10} \text{ m}^2 \text{ s}^{-1}$ (For **7**)

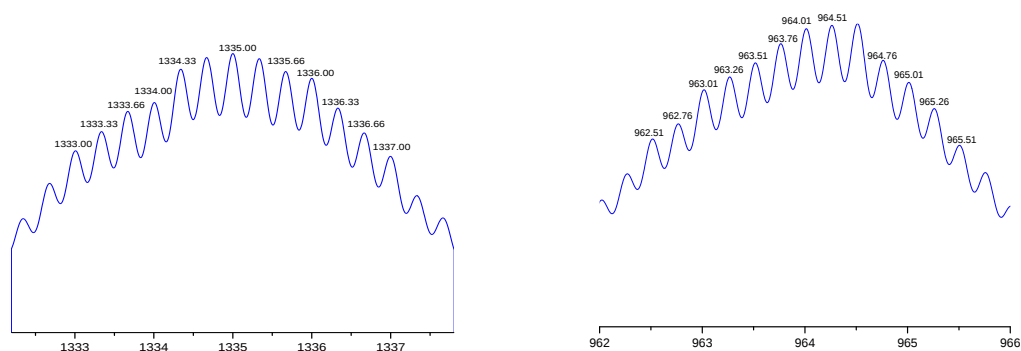
→ $D = 2.5 \times 10^{-10} \text{ m}^2 \text{ s}^{-1}$ (For the other assembly which was present in the reaction mixture)

For **7**: The hydrodynamic radius from Stokes–Einstein equation is 2.0 nm; while the actual radius from the crystal: 1.5 nm

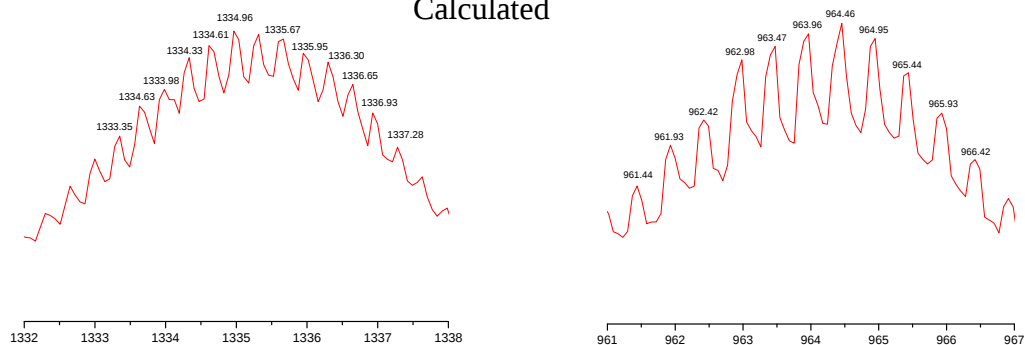
Figure S4. Partial DOSY spectra of reaction mixture at the synthesis of **7**.

2. Mass spectra of compounds 6–8

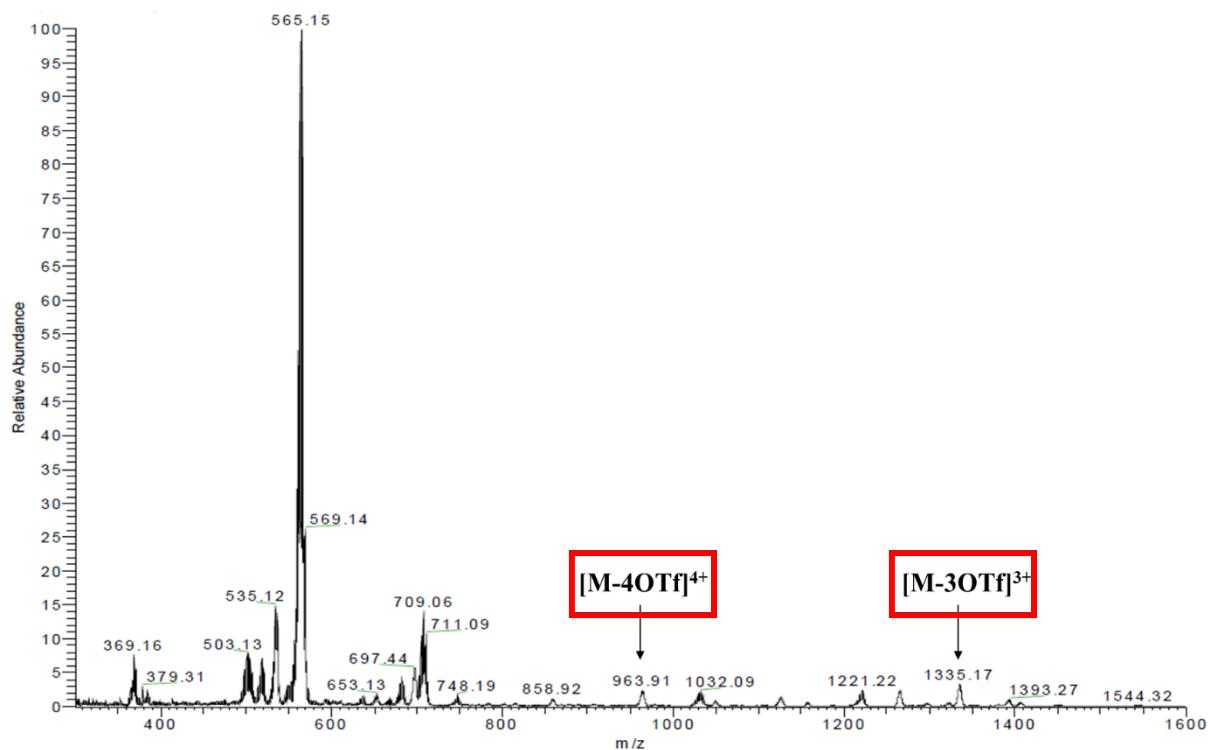
(1) Mass spectrum of 6



Calculated

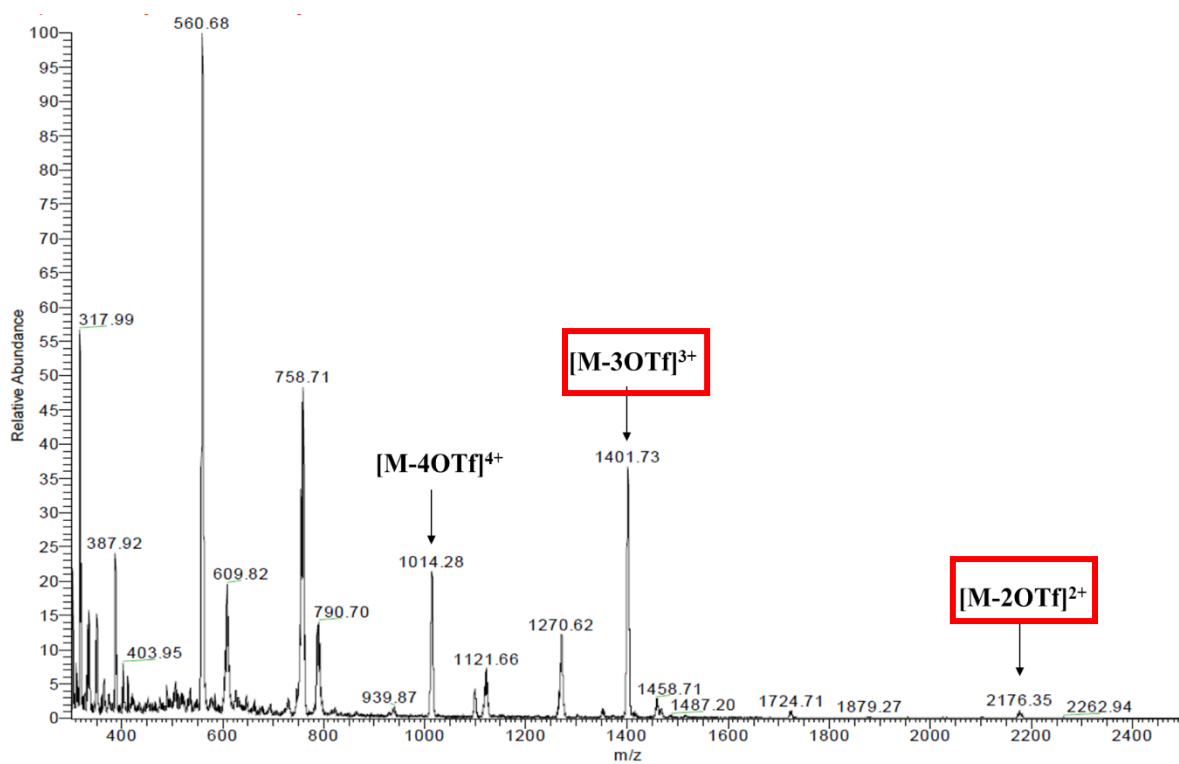
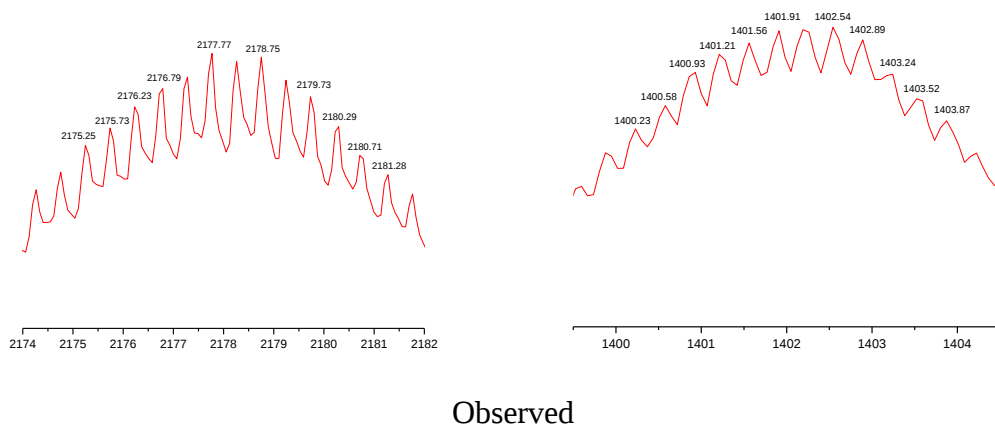
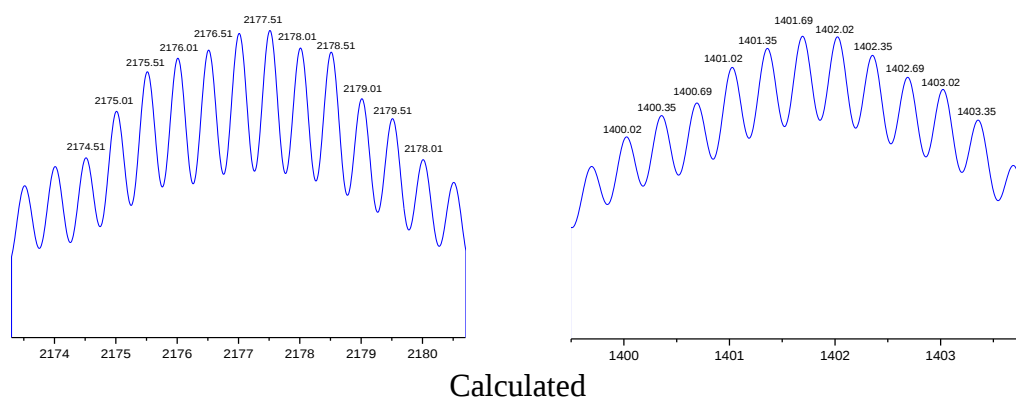


Observed

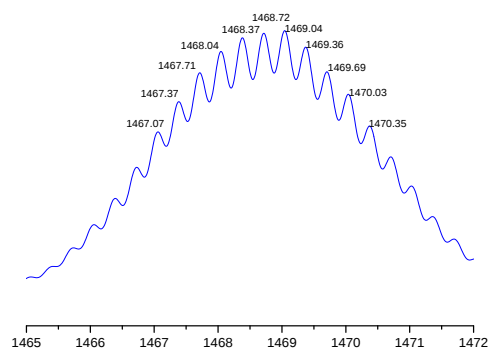


Full Spectrum

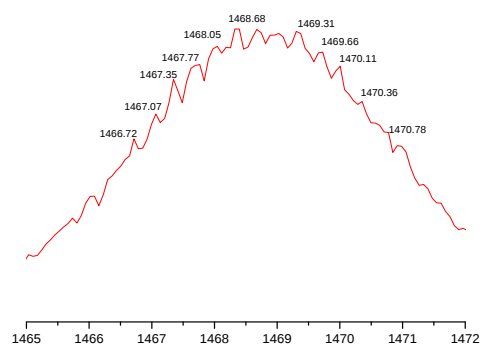
(2) Mass spectrum of 7



(3) Mass spectrum of **8**



Calculated



Observed

Full Spectrum

