Supplementary Material

Thermal and Pressure Induced Cooperative Spin Transition in the 2D and 3D Coordination Polymers {Fe(5-Br-pmd)[M(CN)$_x$]$_y$} (M =Ag(I), Au(I), Ni(II), Pd(II), Pt(II))

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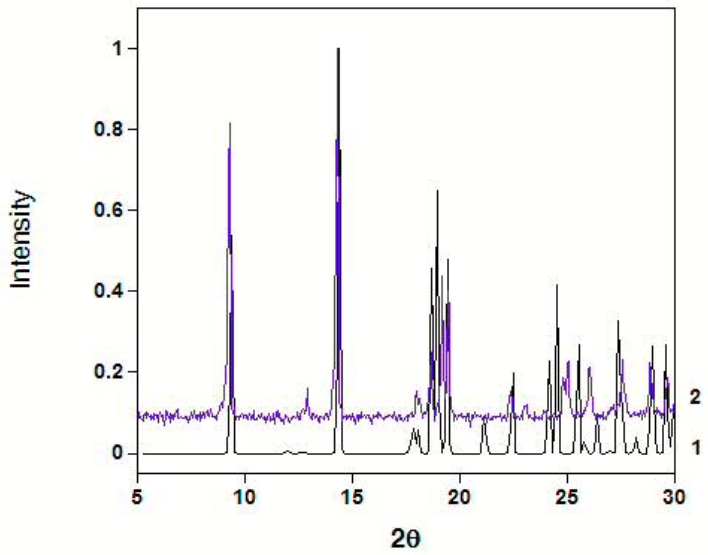
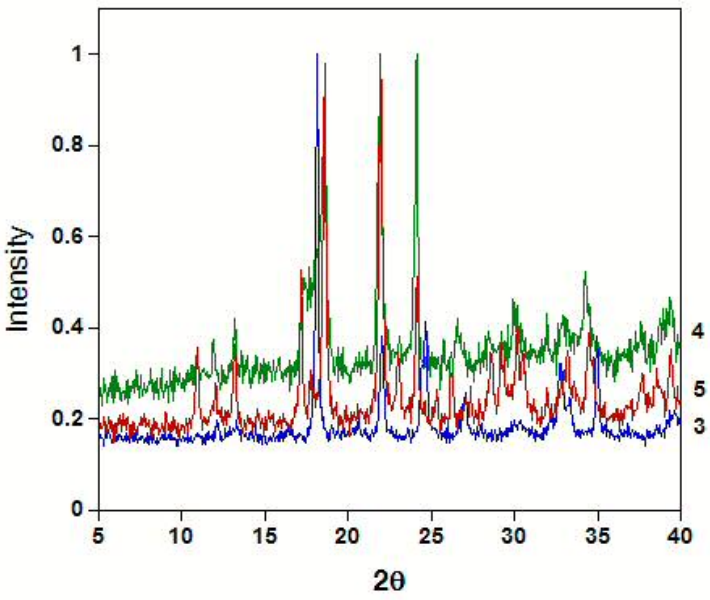
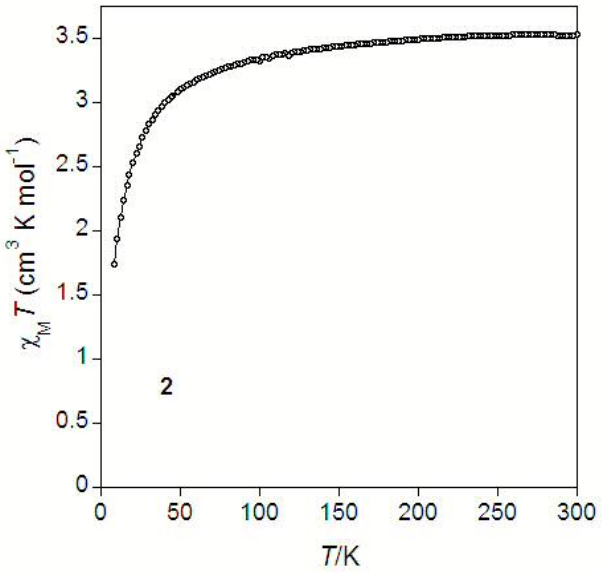


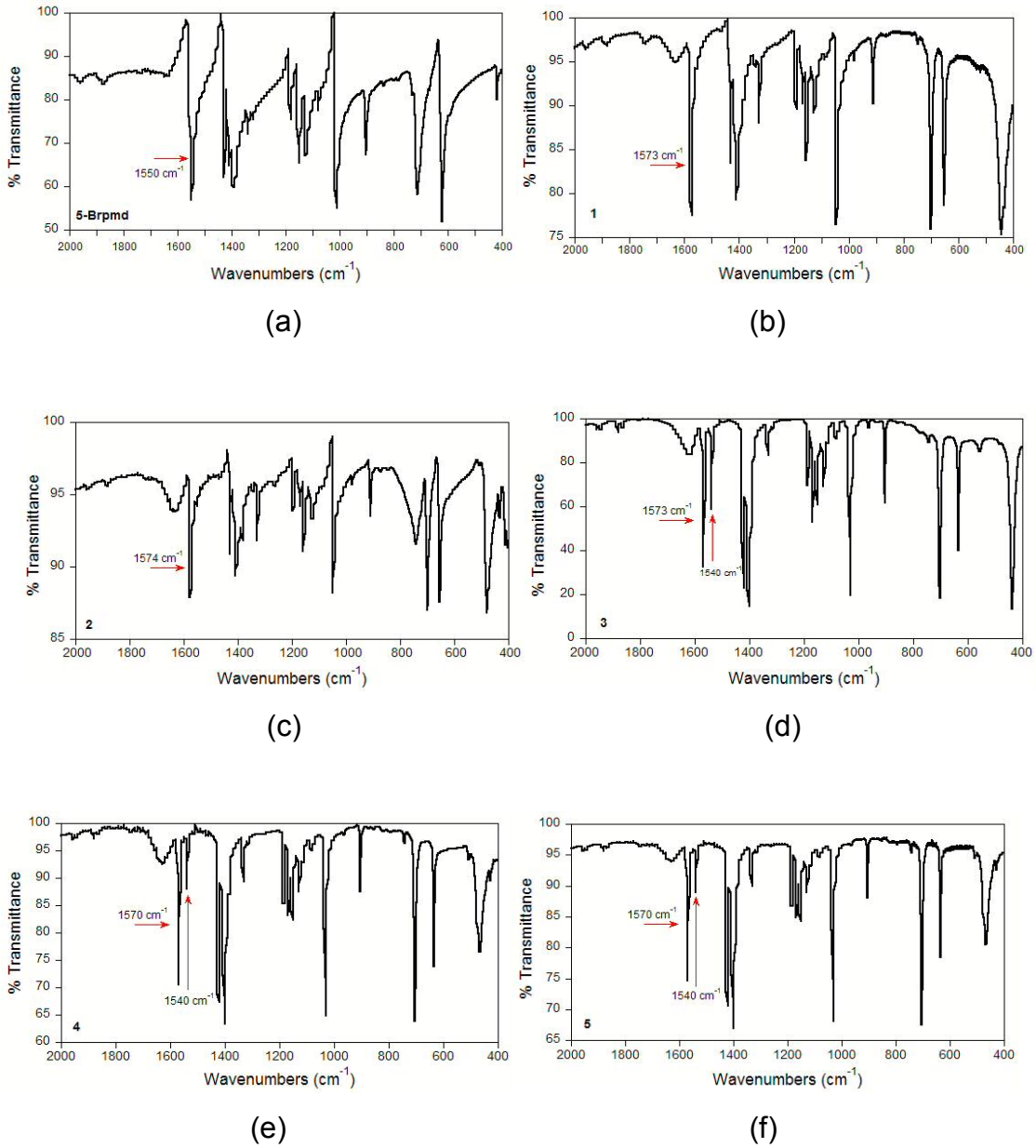
FigureSM1. XRD diffraction patterns of compounds **1** (calculated) and **2** (experimental) at 293 K. The representative peaks are as follow: 2θ: 9.30; 14.30; 18.70; 18.95; 19.44; 22.50.



FigureSM2. XRD diffraction patterns of compounds **3**-**5** at 293 K. The representative peaks are as follow: 2θ: 11.80; 13.15; 18.50; 21.91; 24.15.



FigureSM3. Temperature dependent magnetic susceptibility measurement for **2** at atmospheric pressure (rate of measurements: 1 K/min).



FigureSM4. IR spectra recorded at 293 K: a) ligand 5-Br-pmd and b)-f) the compounds **1**-**5**.