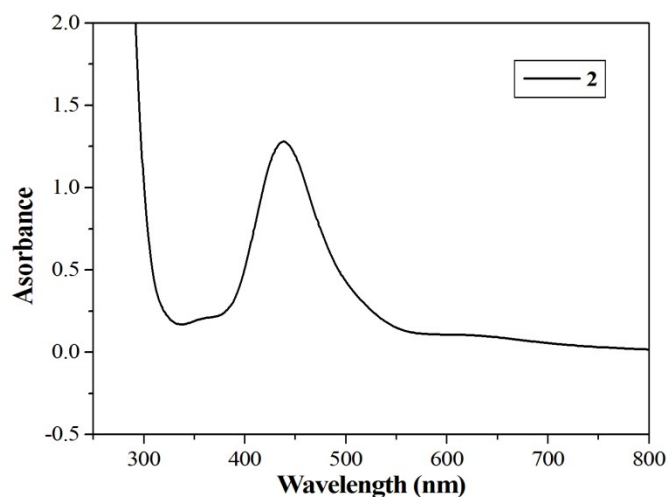


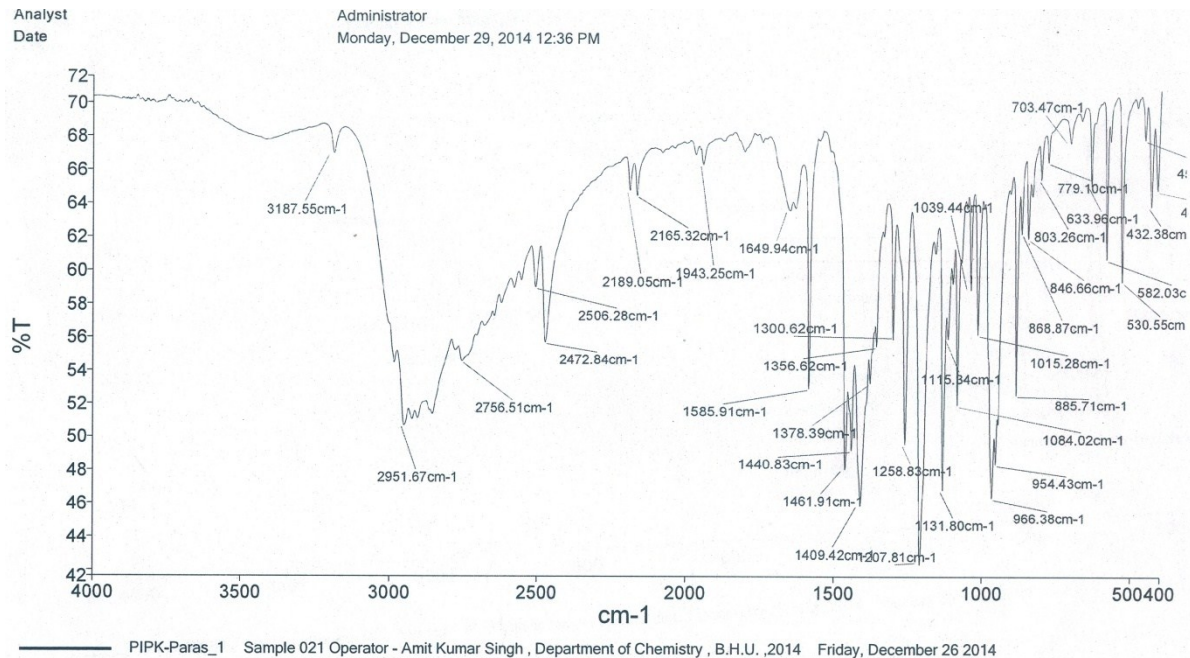
Ag(I), Cu(II), Co(III), Hg(II) complexes and metal assisted products derived from 4-methyl-piperidine-carbodithioate: Syntheses, structures, redox behaviour, thermal analyses and fluorescence properties

Paras Nath, M. K. Bharty, B. Maiti, A. Bharti, R. J. Butcher, J. L. Wikaira and N. K. Singh

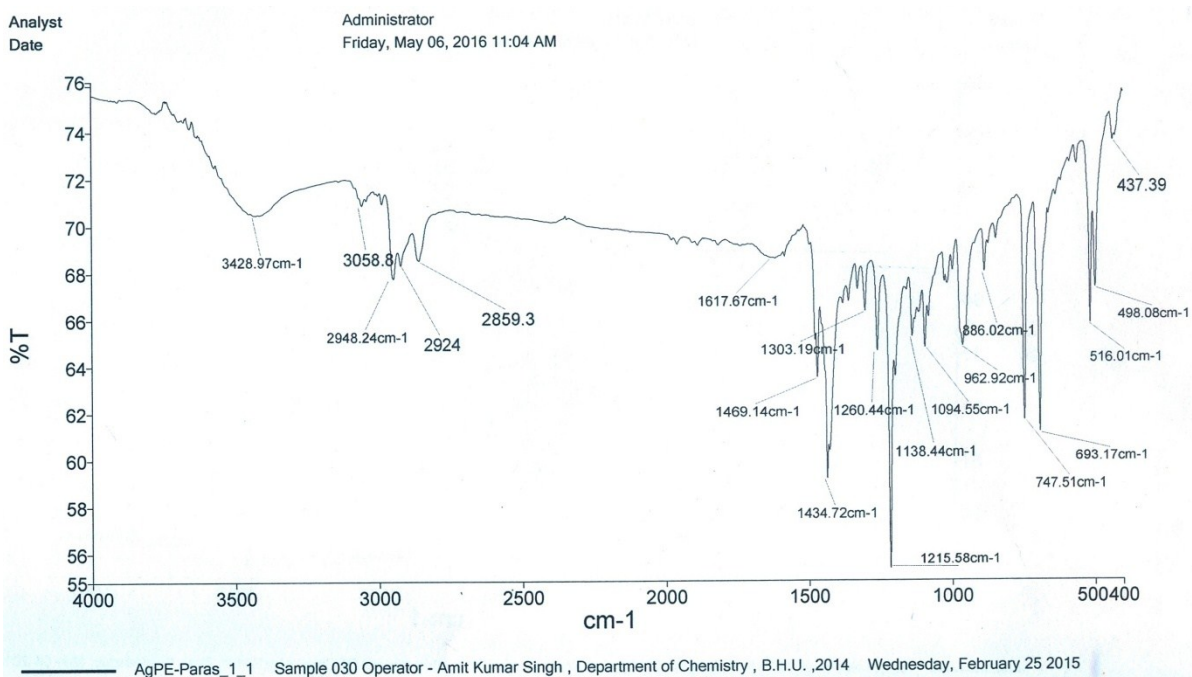
SUPPLEMENTARY FIGURES



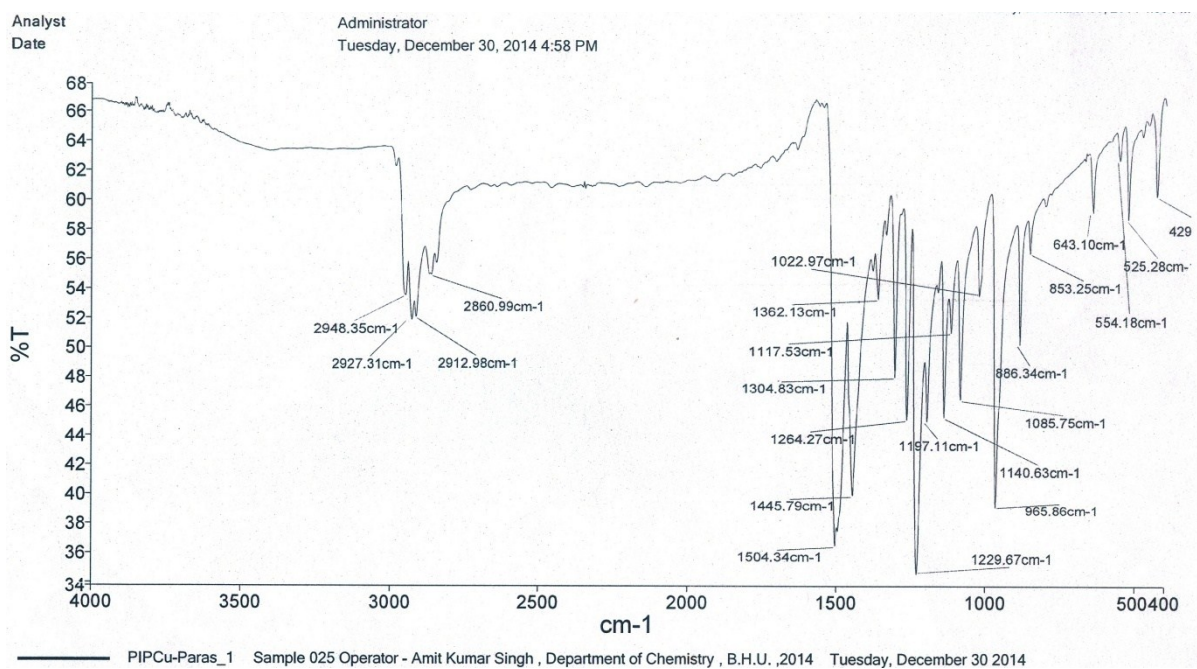
S.Fig. 1. Absorption spectrum of complex 2 at 5×10^{-4} M in methanol



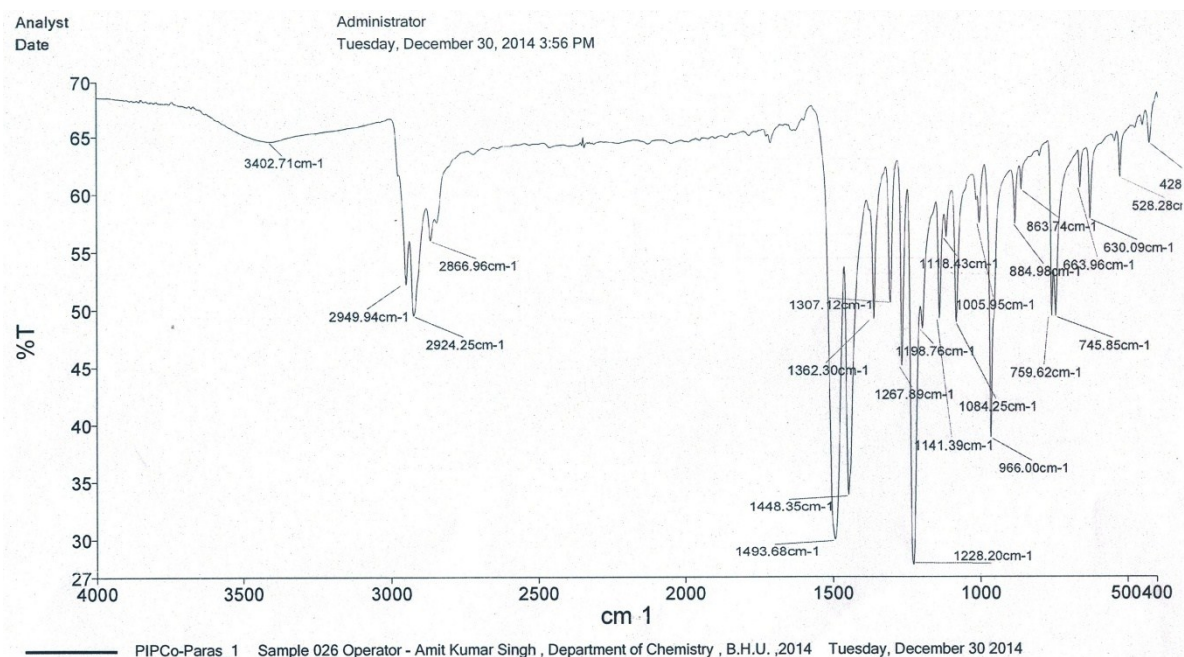
S.Fig. 2. IR spectrum of ligand {K⁺(4-mpipdct)⁻}



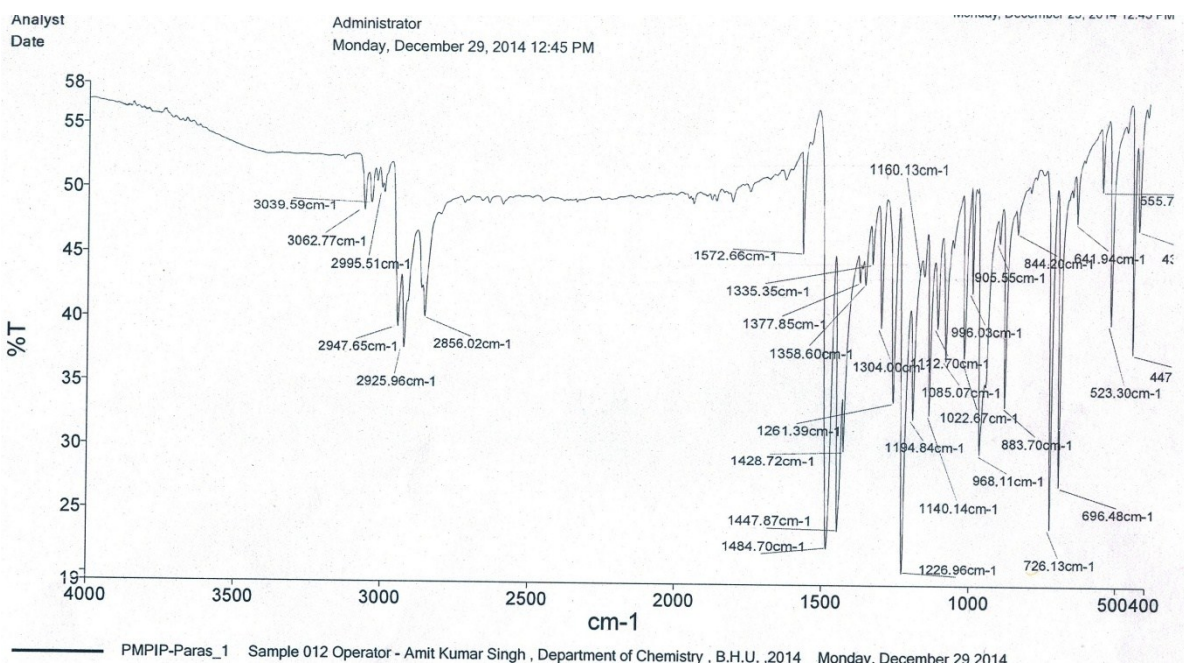
S.Fig. 3. IR spectrum of complex $[Ag_2(4\text{-mpipdte})_2(PPh_3)_2]$ (1)



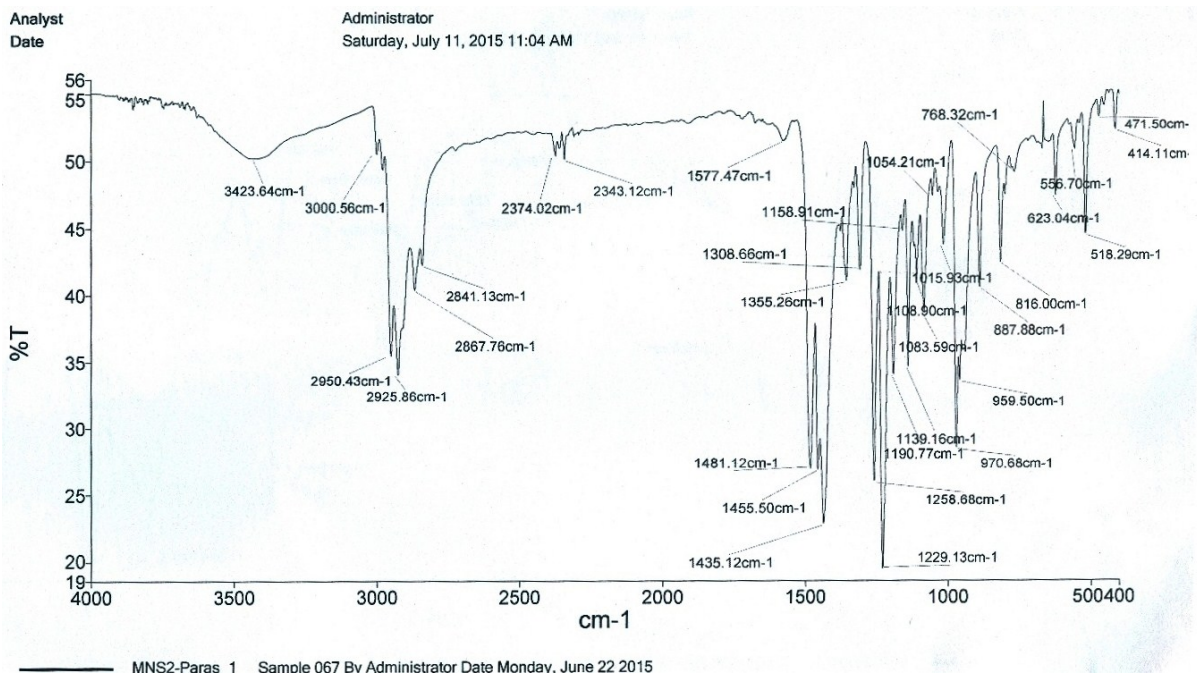
S.Fig. 4. IR spectrum of complex $[Cu(4\text{-mpipdte})_2]$ (2)



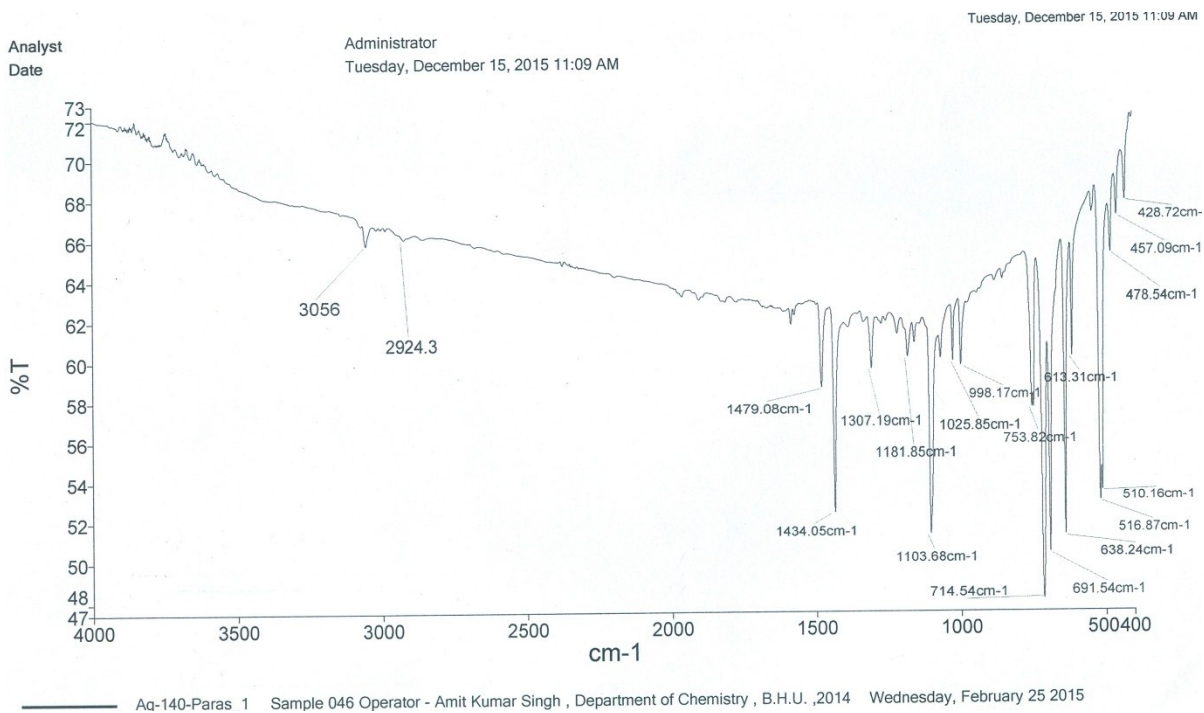
S.Fig. 5. IR spectrum of complex $[\text{Co}(4\text{-mpipdct})_3]\cdot\text{CHCl}_3$ (3)



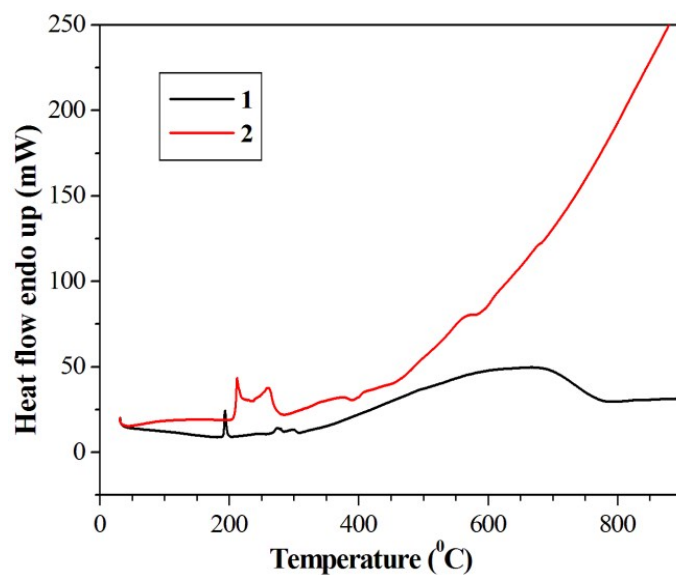
S.Fig. 6. IR spectrum of complex $[\text{PhHg}(4\text{-mpipdct})]$ (4)



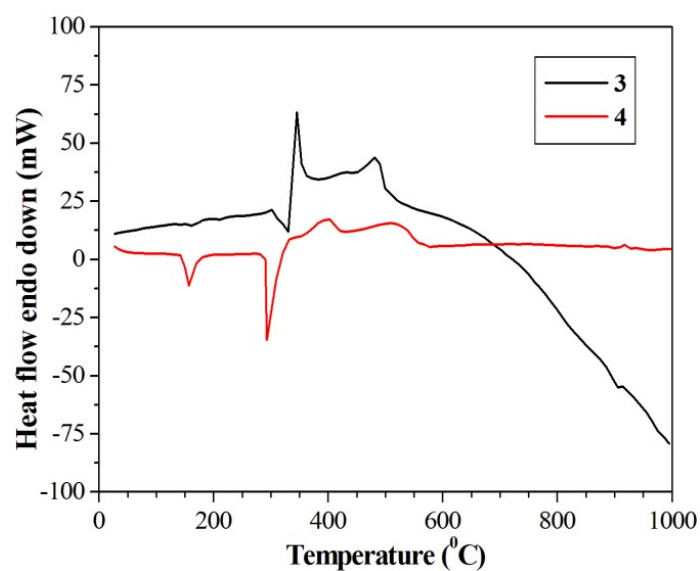
S.Fig. 7. IR spectrum of compound $\{(4\text{-mpipdte})_2\}$ (5)



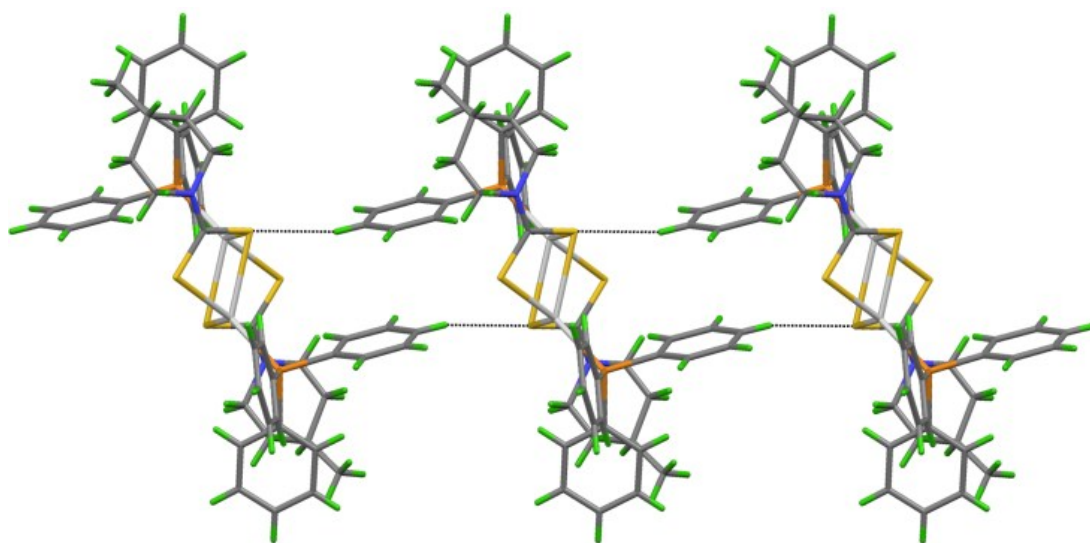
S.Fig. 8. IR spectrum of compound $\text{CH}_2(4\text{-mpipdte})_2$ (6)



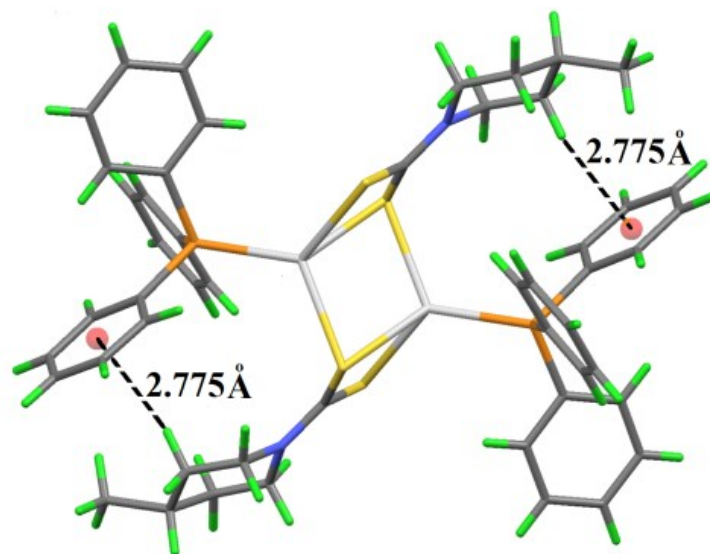
S.Fig. 9. DTA curves showing endothermic/exothermic peaks of complexes 1 and 2



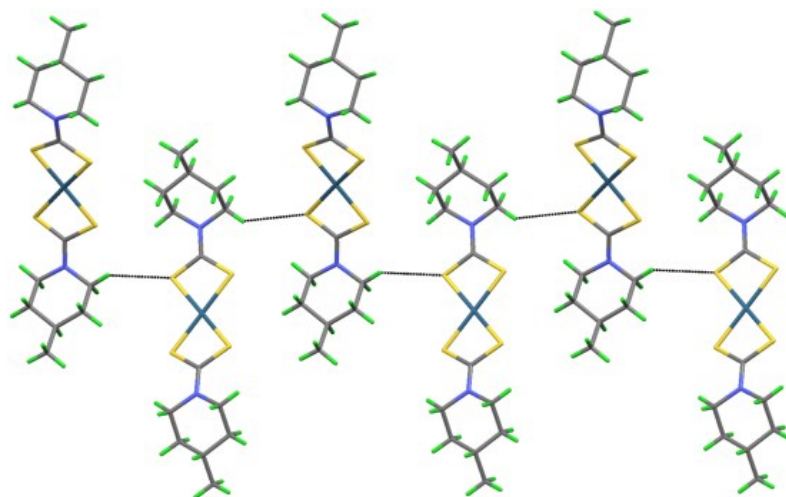
S.Fig. 10. DTA curves showing endothermic/exothermic peaks of complexes 3 and 4



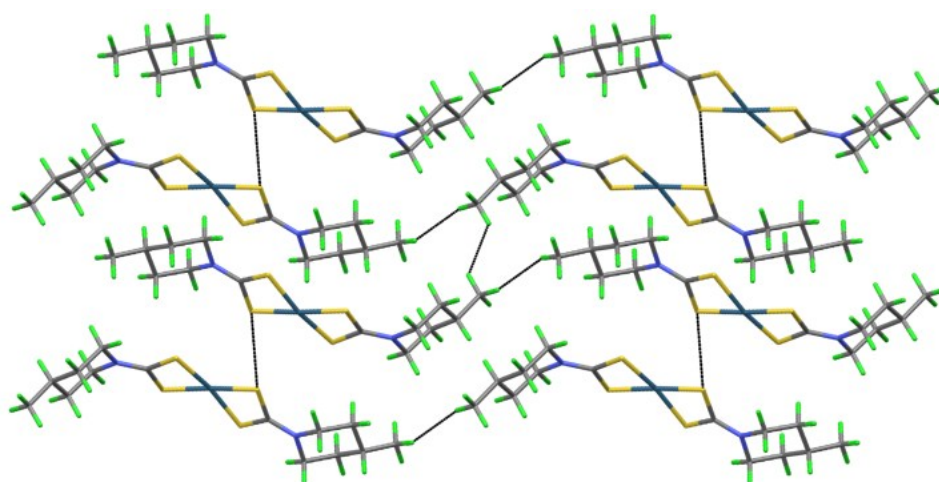
S.Fig. 11. C-H...S interactions between dithio sulfur and C-H hydrogen of the phenyl ring in complex 1



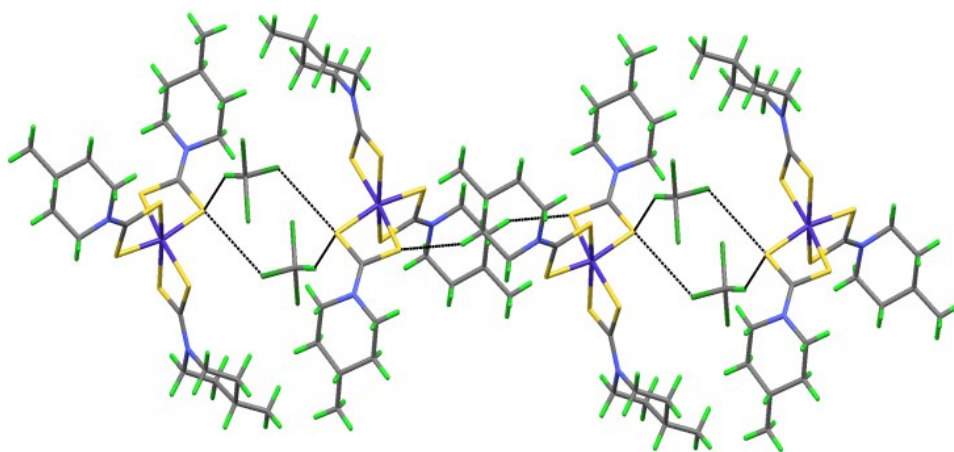
S.Fig. 12. C-H $\cdots\pi$ interactions between C-H of piperidine ring and π electrons of a phenyl ring of PPh₃ in complex 1



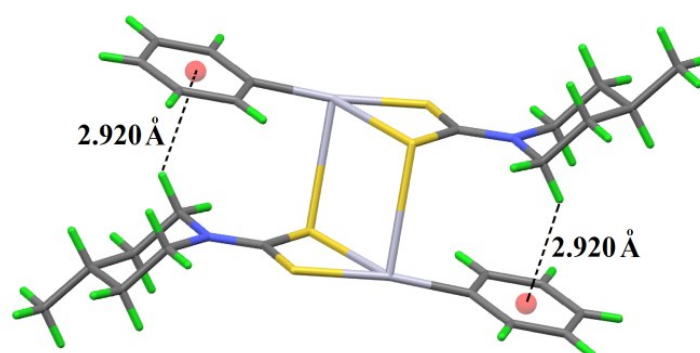
S.Fig. 13. C-H \cdots S interactions between the dithio sulfur atom and C-H hydrogen of piperidine ring in complex 2



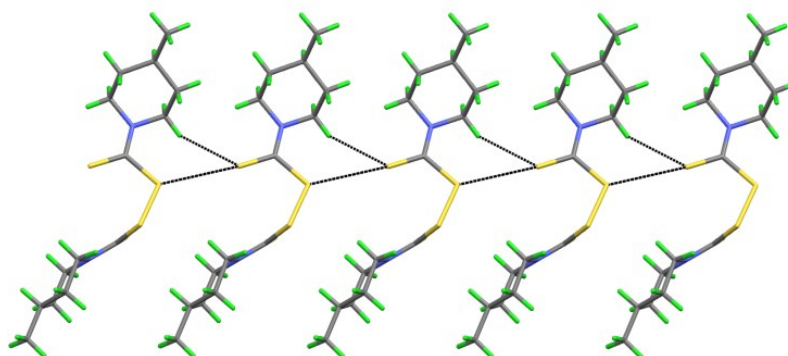
S.Fig. 14. S \cdots S interactions in complex 2 leading a wave like architecture



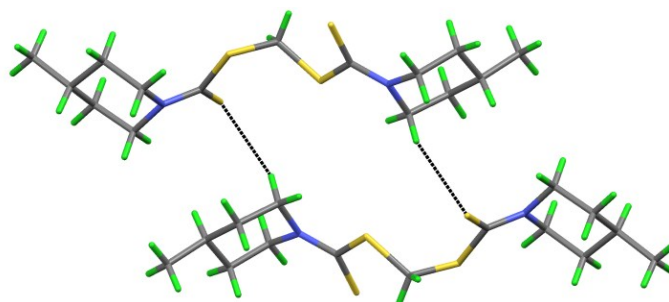
S.Fig. 15. C-H...S interactions between dithio sulfur atoms and the hydrogen atoms of the piperidine ring/ hydrogen atoms of chloroform molecules in complex **3**



S.Fig. 16. C-H... π interactions between C-H of piperidine and π electrons of a phenyl rings in complex **4**



S.Fig. 17. C-H...S interaction between thione sulfur and C-H of piperidine ring and S...S interactions in compound **5** leading to a linear chain architecture



S.Fig. 18. C-H...S interaction between hydrogen of piperidine ring and dithiocarbamate sulfur in compound **6**