

Electronic Supplementary Information for Dalton Transactions
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***fac*-[Re(CO)₃(dmsO-O)₃](CF₃SO₃): a new versatile and efficient Re(I) precursor for the preparation of mono and polynuclear compounds containing *fac*-[Re(CO)₃]⁺ fragments.**

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Supplementary Information

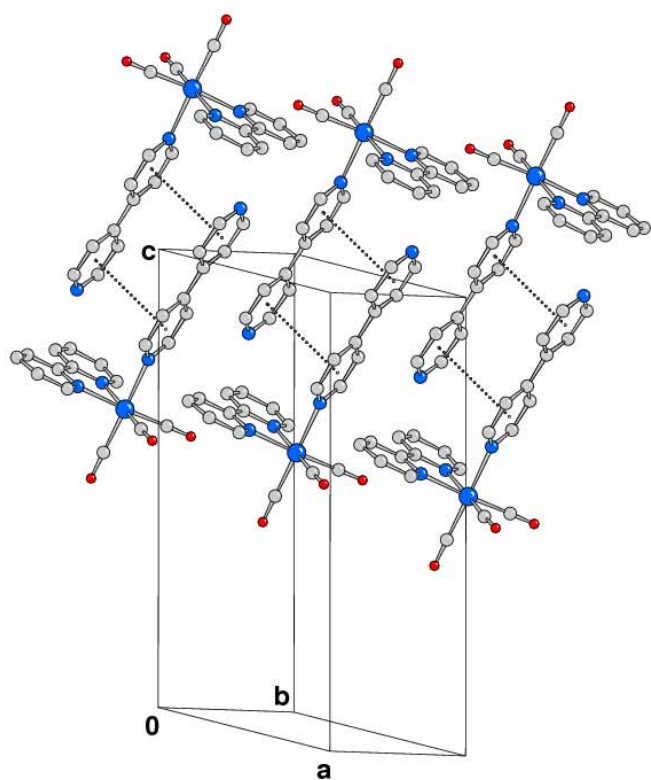


Figure 1S. Details of the crystal packing in *fac*-[Re(CO)₃(bipy)(4,4'-bipy)](CF₃SO₃) (7), showing the intramolecular stacking of the 4,4'-bipy ligands.

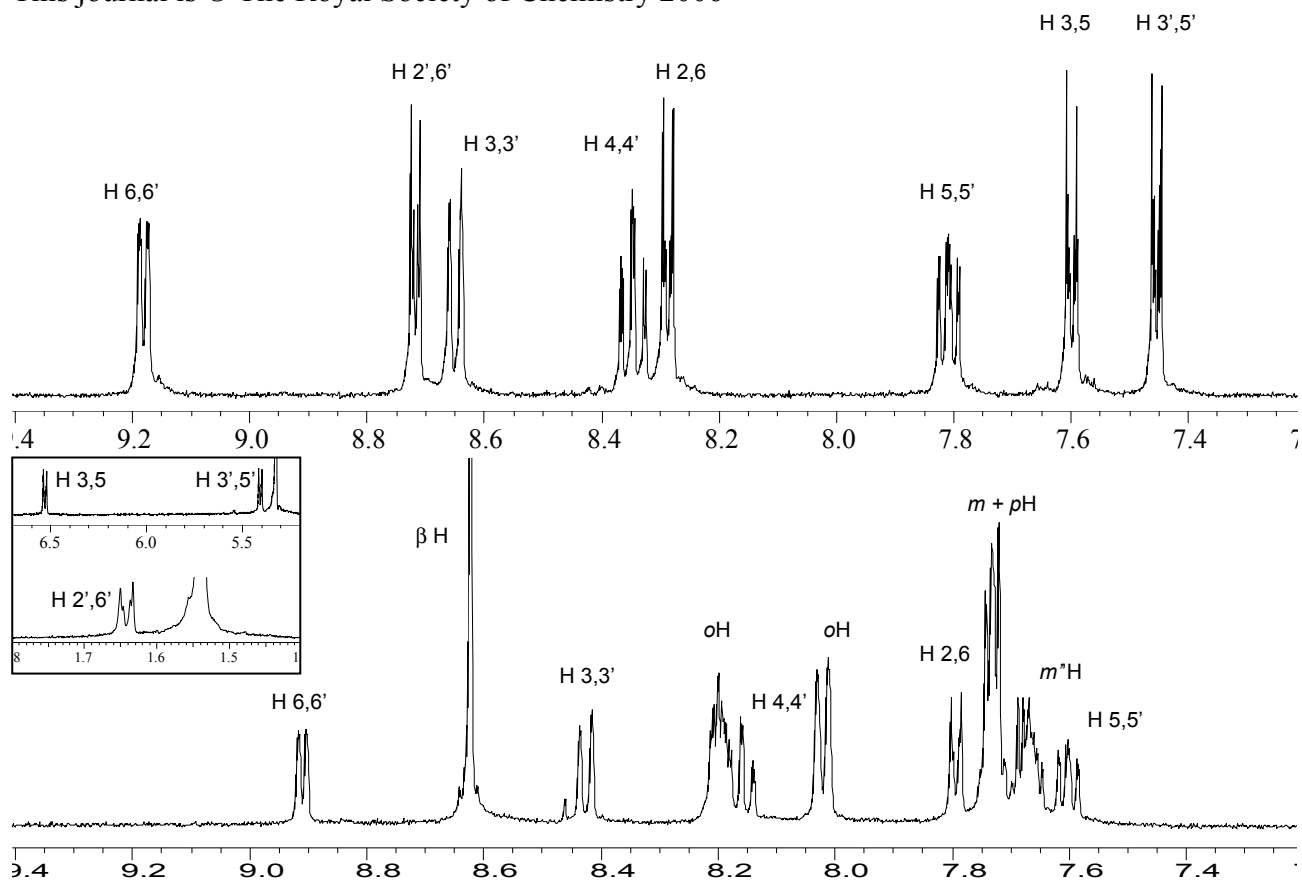


Figure 2S. Comparison of the ^1H -NMR spectra (CD_2Cl_2) of *fac*- $[\text{Re}(\text{CO})_3(\text{bipy})(4,4'$ -
*bipy)](\text{CF}_3\text{SO}_3) (**7**) (top) and $[\text{fac}\{-\text{Re}(\text{CO})_3(\text{bipy})\}\{\mu\text{-}4,4'\text{-bipy}\}\{\text{Ru}(\text{CO})(\text{TPP})\}](\text{CF}_3\text{SO}_3)$ (**8**)
(bottom). See Figure 5 for the labeling scheme.*

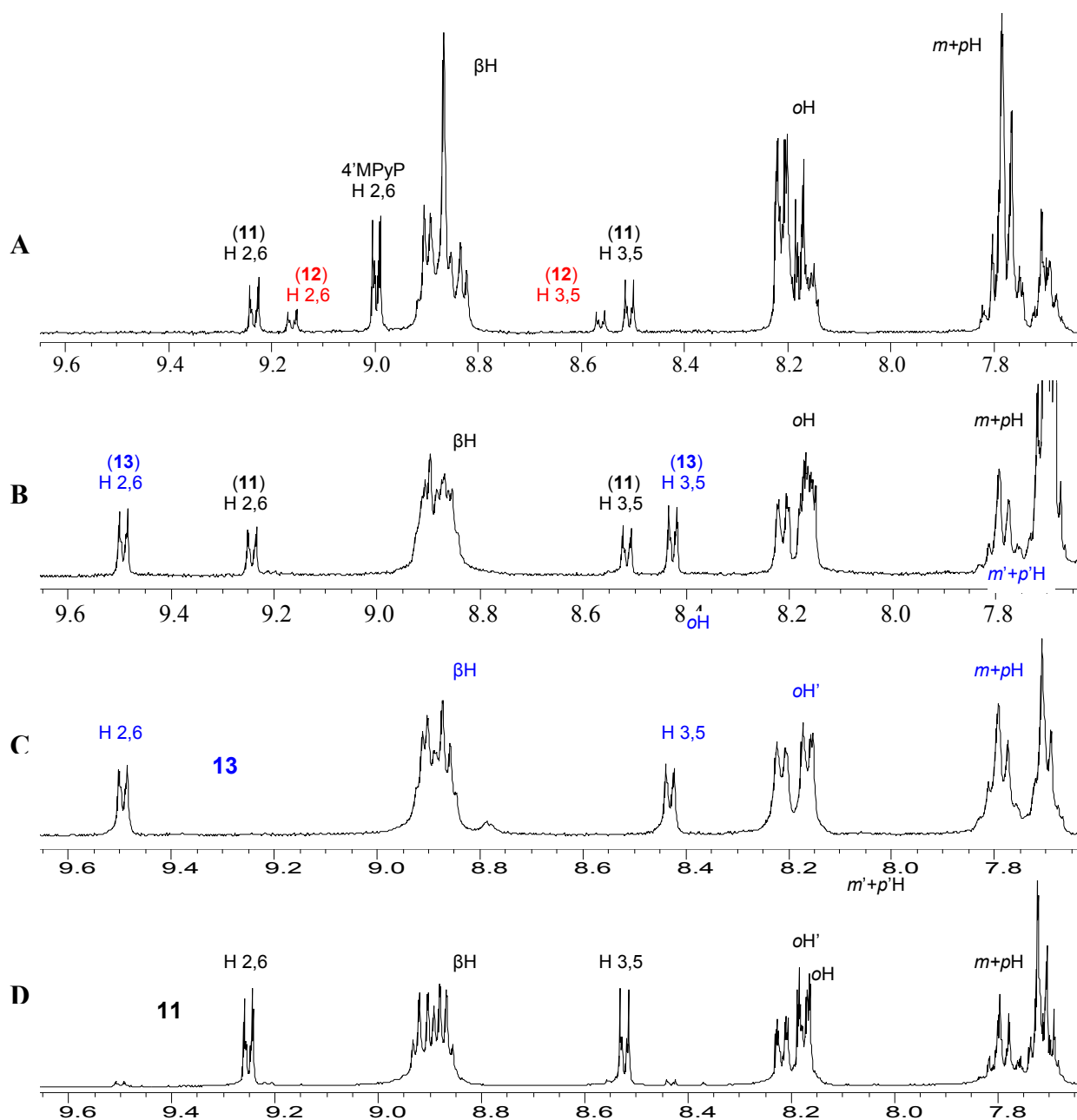


Figure 3S. ¹H-NMR spectra (CD₂Cl₂) of: **A.** Raw mixture of **11**, **12**, and unreacted 4'MPyP, as obtained from the reaction between **1** and an excess of 4'MPyP before column chromatography; **B.** First band from the first column, containing a mixture of **11** and **13**; **C.** First band from the second column, containing pure *fac*-[ReCl(CO)₃(4'MPyP)₂] (**13**); **D.** Second band from the second column, containing almost pure **11**. See Figure 8 (repeated below) for labelling scheme.

