

Coordination versatility of tridentate pyridyl arylhydrazones towards iron: tracking down the elusive arylhydrazone-based ferric spin-crossover molecular materials

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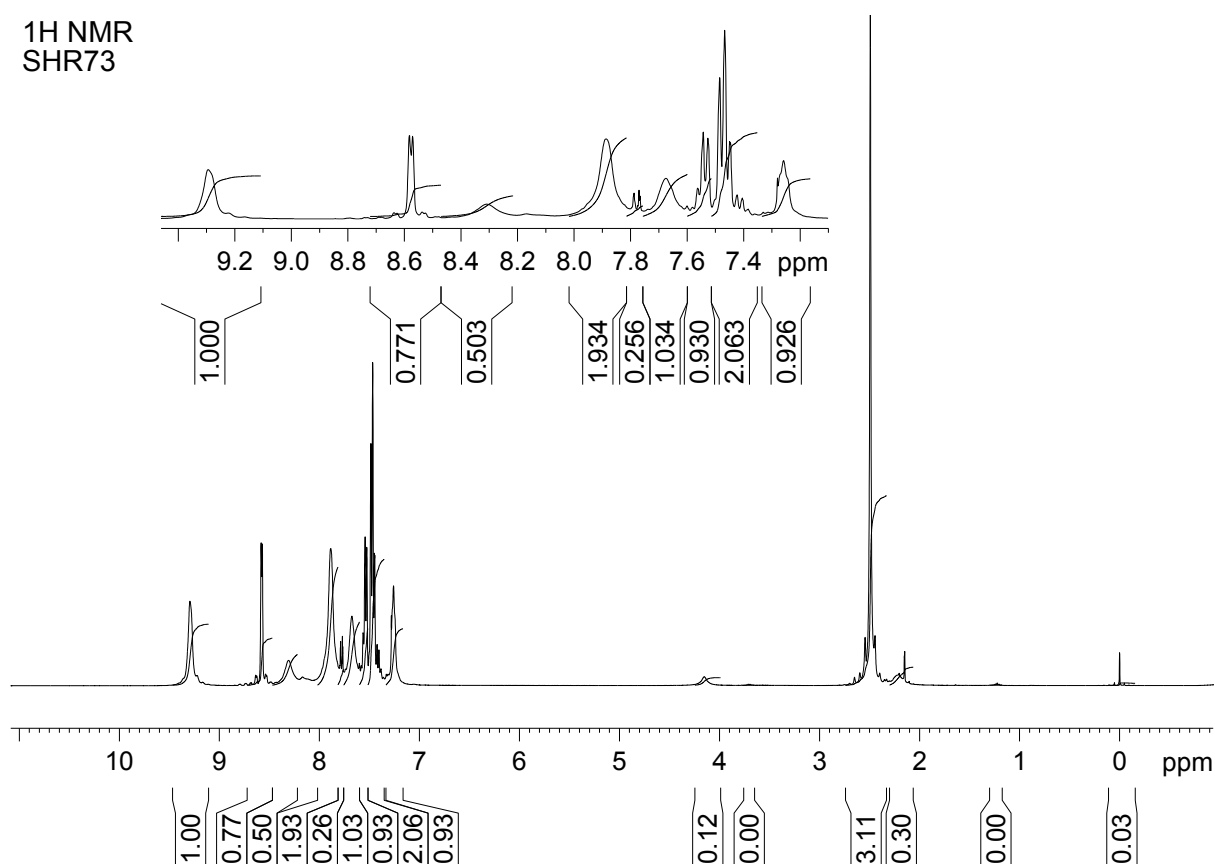


Fig. S1 ¹H NMR spectrum of HL¹.

¹H NMR
SHR2

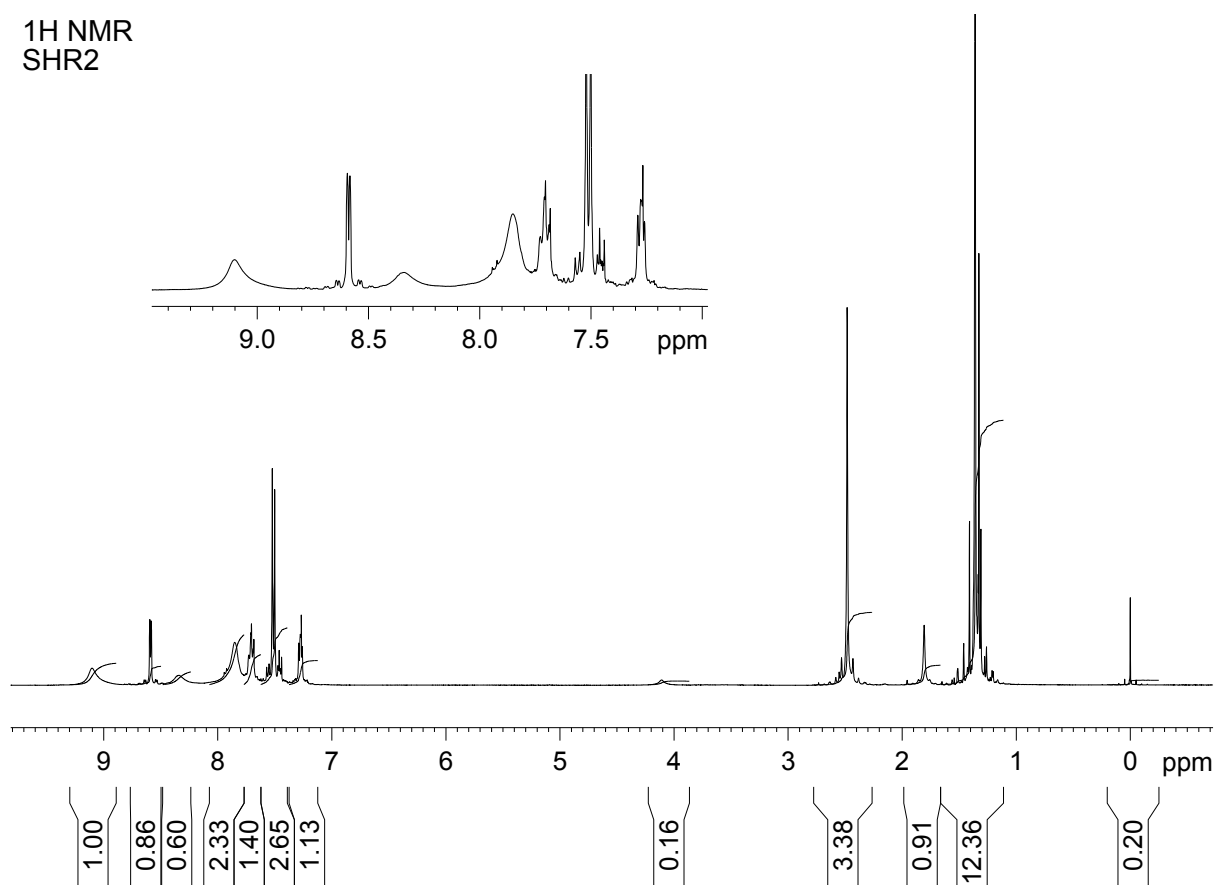


Fig. S2 ¹H NMR spectrum of HL².

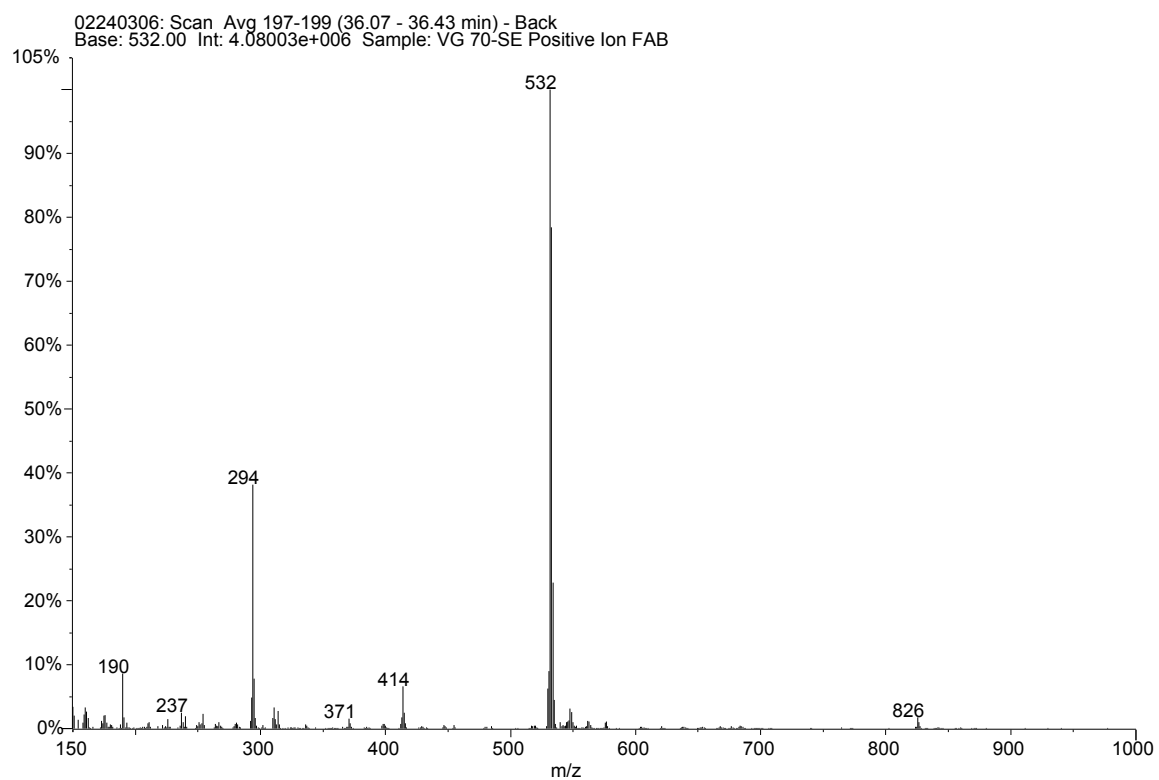
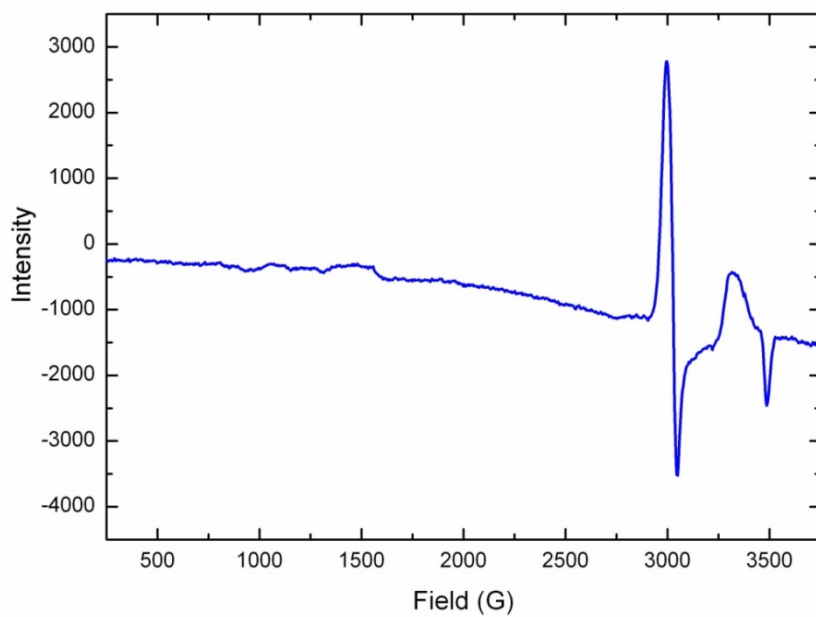
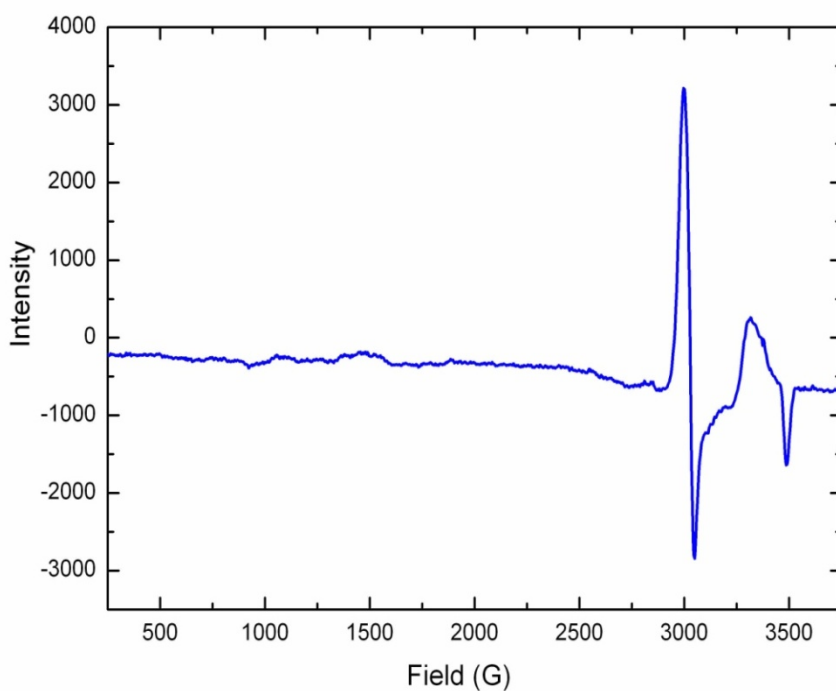


Fig. S3 Positive-ion FAB mass spectrum of $[\text{Fe}^{\text{III}}(\text{L}^1)_2]\text{ClO}_4$ (**5**).



(a)



(b)

Fig. S4 X-band EPR spectra recorded at 77 K: (a) spontaneous aerial oxidation of $[\text{Fe}^{\text{II}}(\text{HL}^1)_2](\text{ClO}_4)_2$ (**1**) in MeOH; (b) $[\text{Fe}^{\text{III}}(\text{L}^1)_2]\text{ClO}_4$ (**5**) in MeOH.