

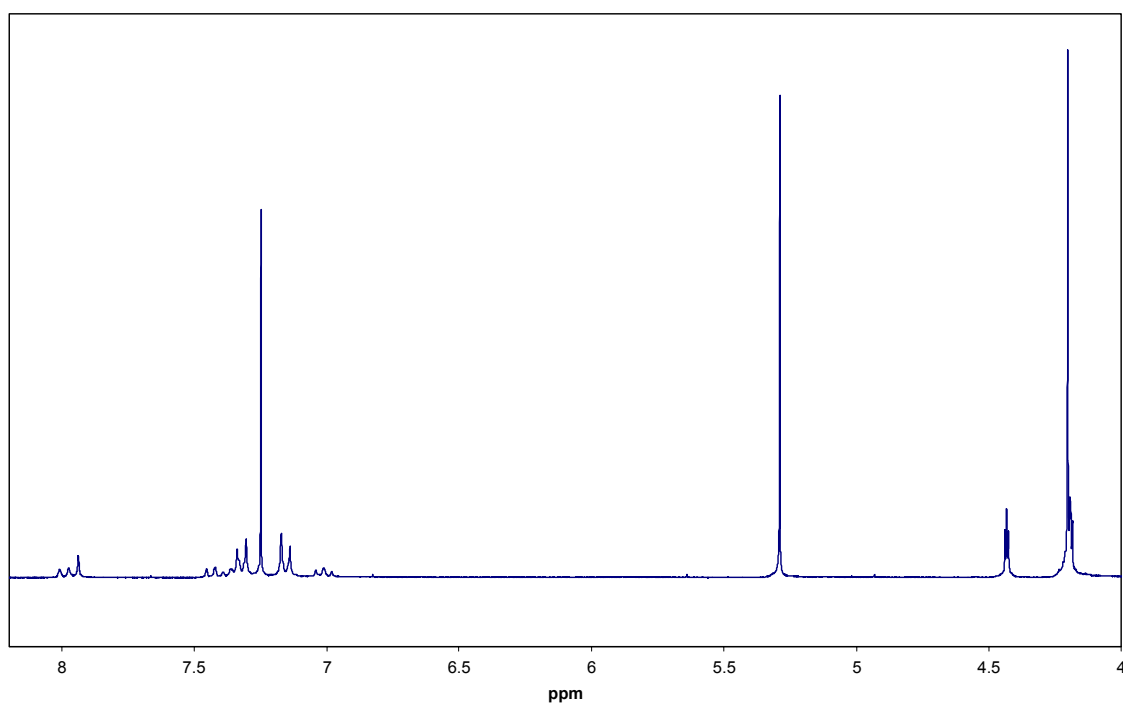
## Supporting information

### Design and synthesis of the active part of a potential molecular motor

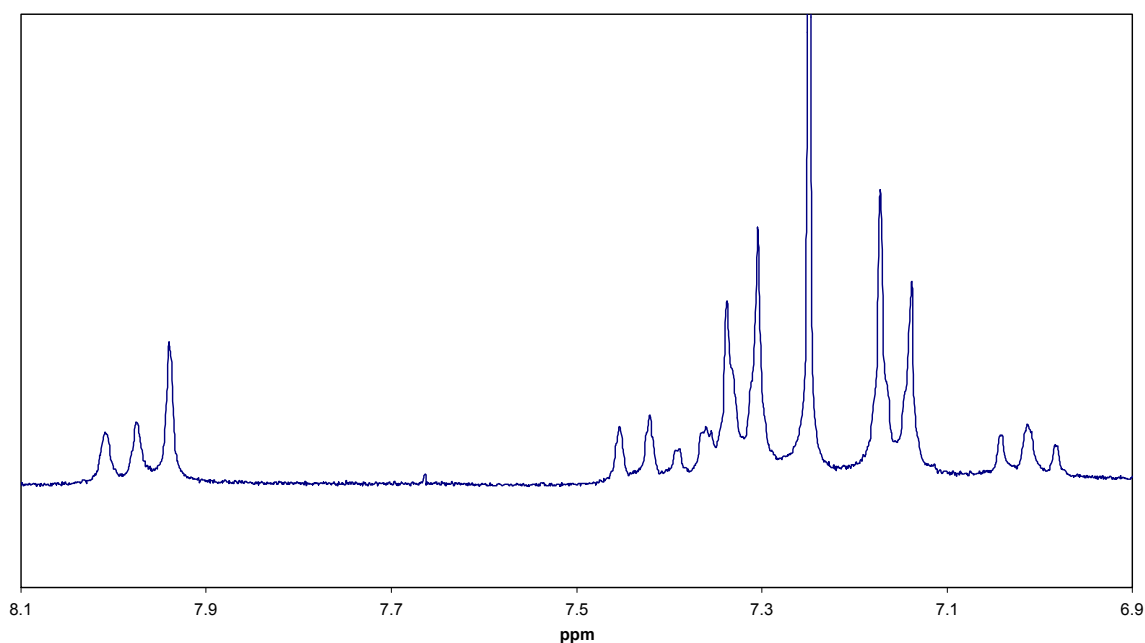
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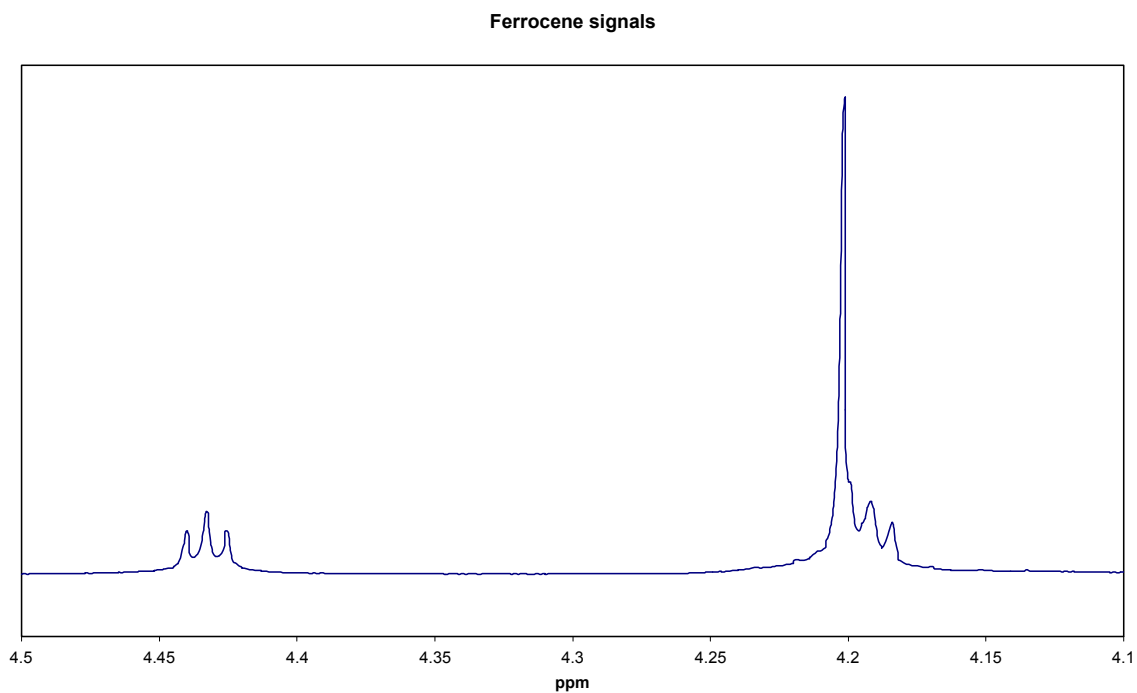
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$^1\text{H}$ -NMR of **3** : Full spectrum and zoom on the ferrocene region (4.1 - 4.6 ppm) and on the aromatic region (6.9 - 8.1 ppm)



Aromatic signals





Cyclic voltammetry of **3** ( $\text{CH}_2\text{Cl}_2$ ,  $^n\text{Bu}_4\text{NPF}_6$ , Pt working and counter electrode, in V vs SCE). All waves were reversible. The sweep rate was  $100 \text{ mV}\cdot\text{s}^{-1}$ .

