

**Note on UV-vis and emission spectroscopy**

All performed in acetonitrile at concentrations of around  $10^{-5}$  M. UV-vis absorption spectra have been converted into extinction units ( $\text{M}^{-1} \text{cm}^{-1}$ ). Raman scattering from the solvent has been subtracted from the emission spectra. Compounds 4 to 6 were non-emissive so no spectra are provided.