



Supporting Information

for

A new platform for the synthesis of diketopyrrolopyrrole derivatives via nucleophilic aromatic substitution reactions

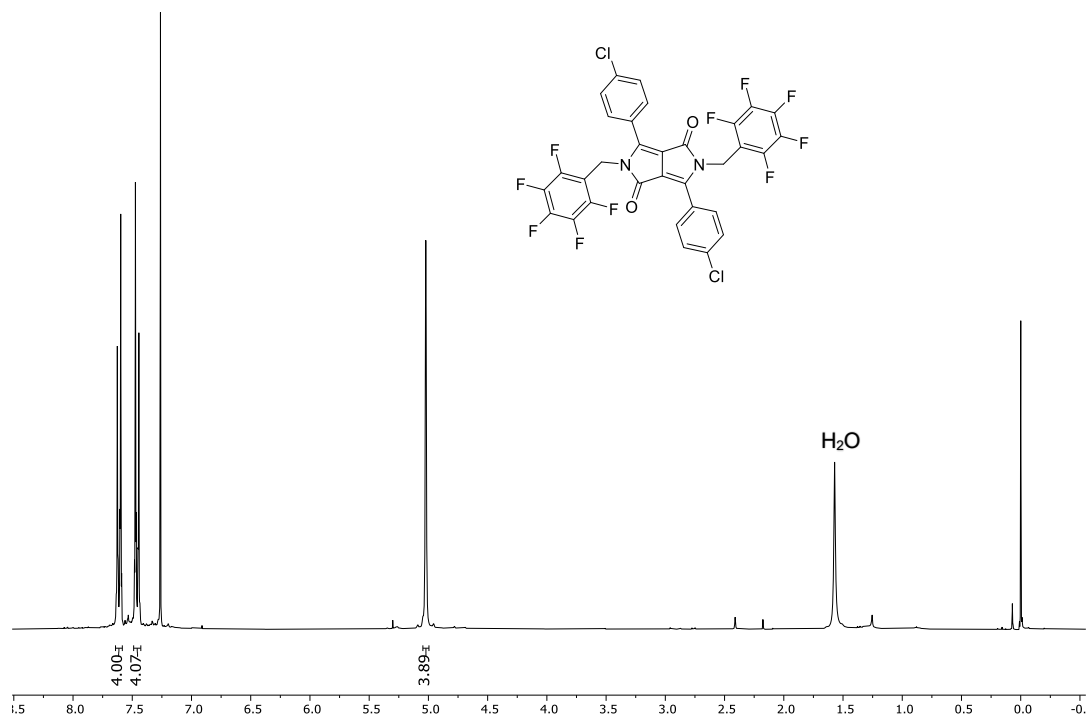
Vitor A. S. Almodovar and Augusto C. Tomé

Beilstein J. Org. Chem. **2024**, *20*, 1933–1939. [doi:10.3762/bjoc.20.169](https://doi.org/10.3762/bjoc.20.169)

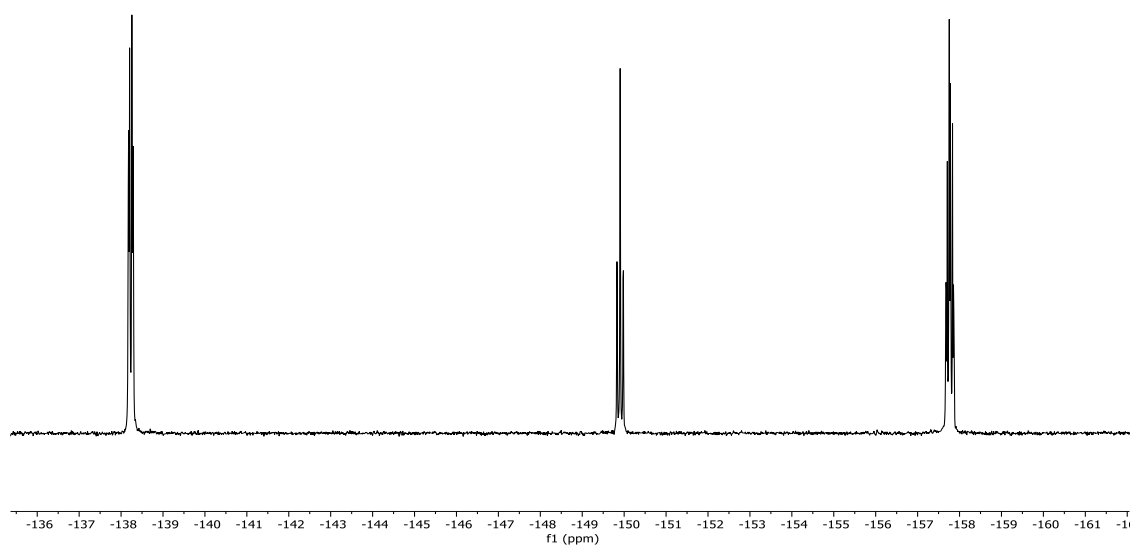
^1H NMR, ^{13}C NMR and ^{19}F NMR spectra; MS, UV–vis and emission spectra

Compound 2

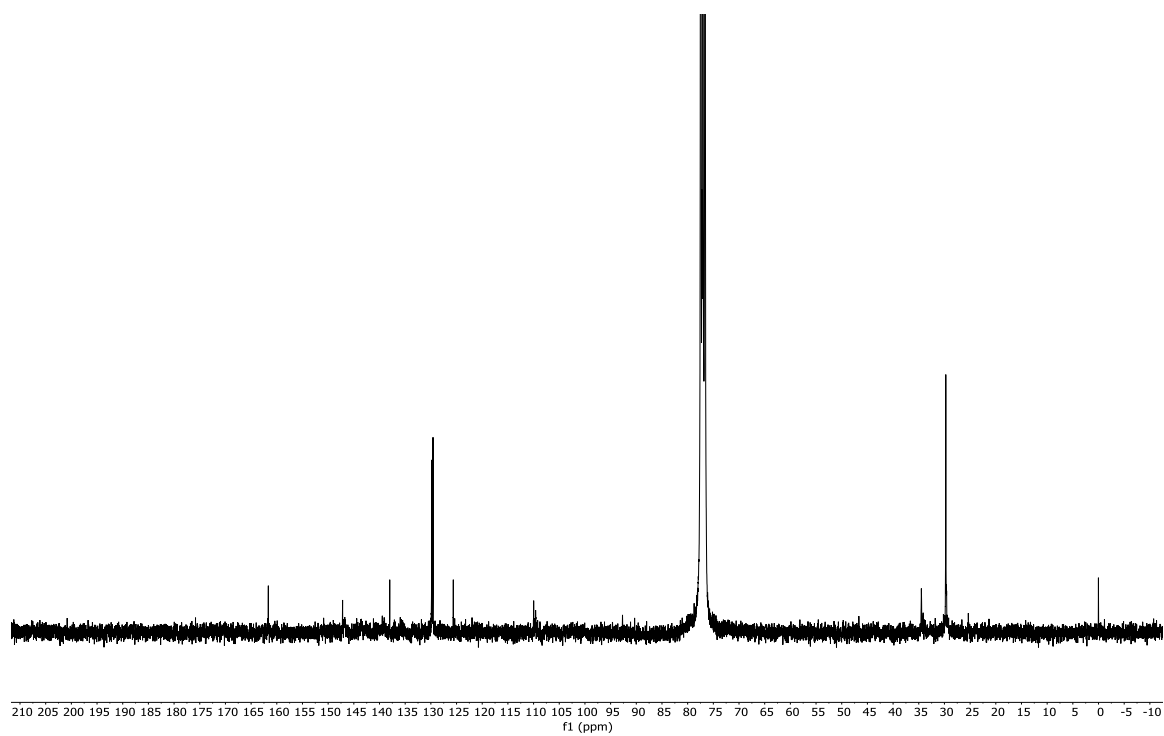
¹H NMR spectrum of 2



¹⁹F NMR spectrum of 2

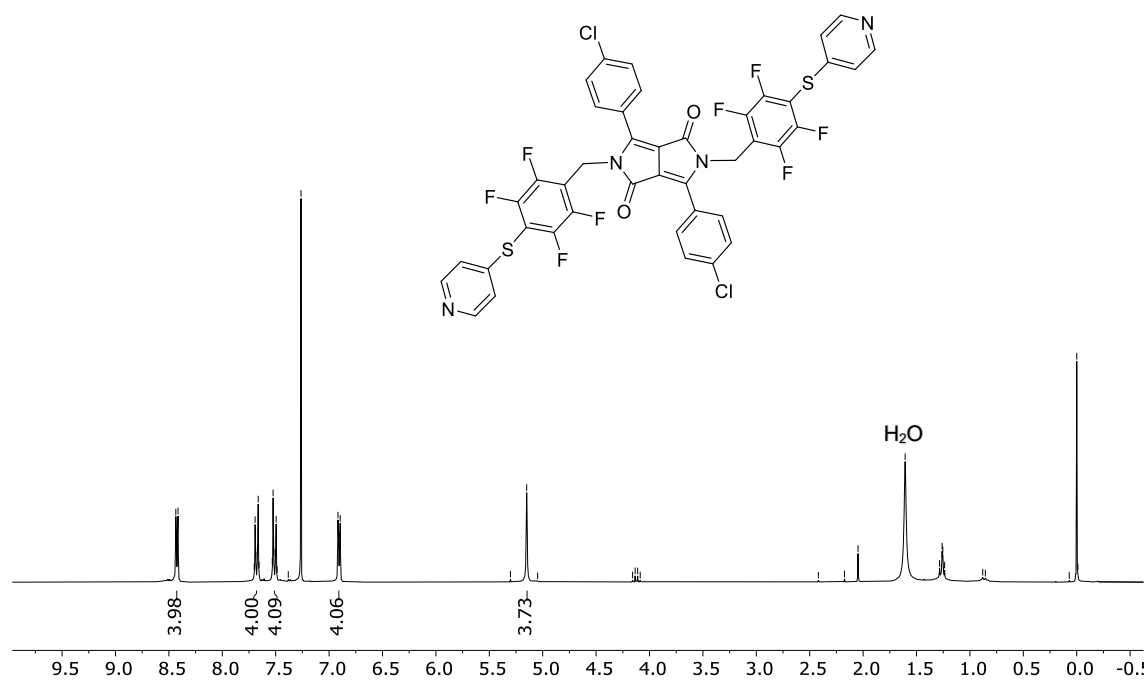


¹³C NMR spectrum of 2

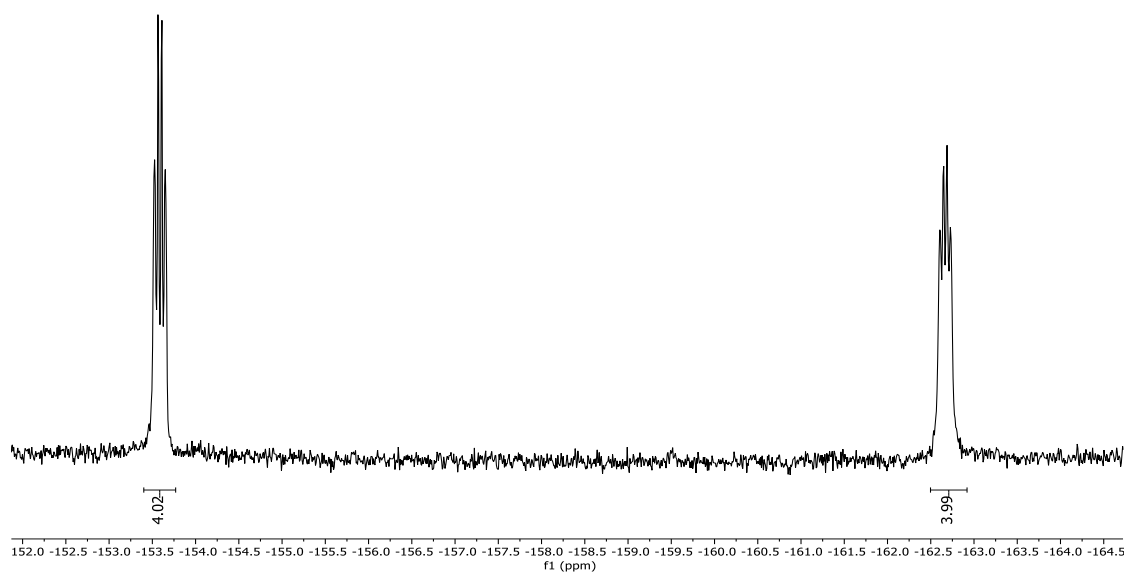


Compound 3a

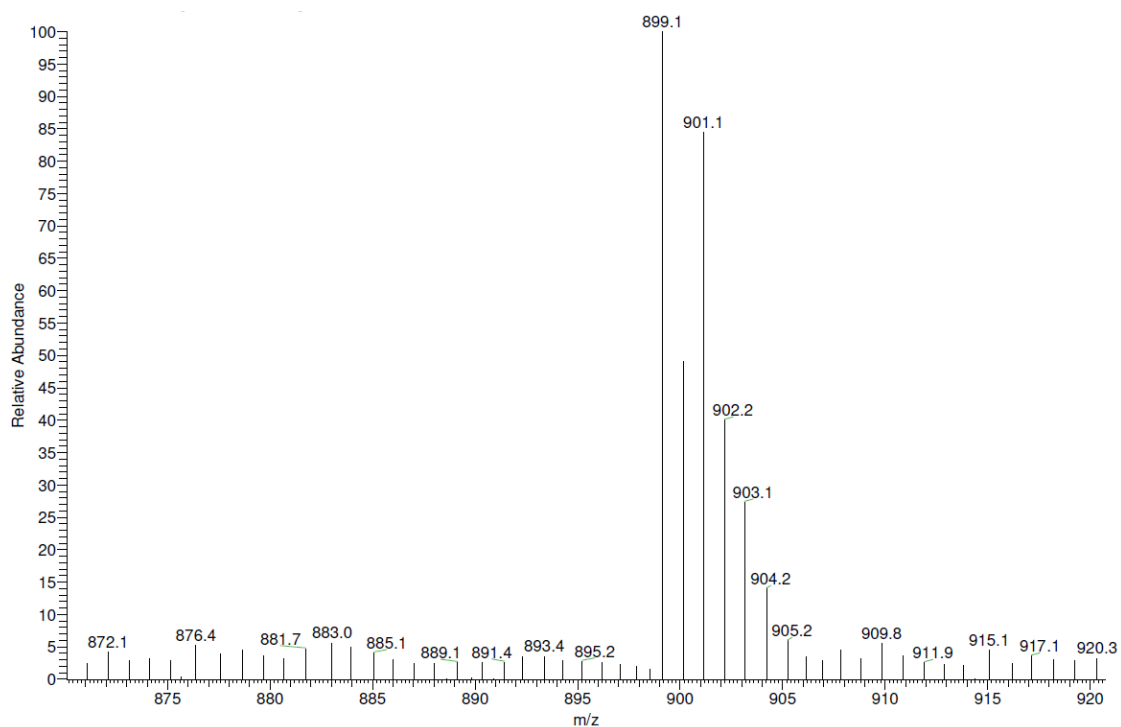
¹H NMR spectrum of 3a



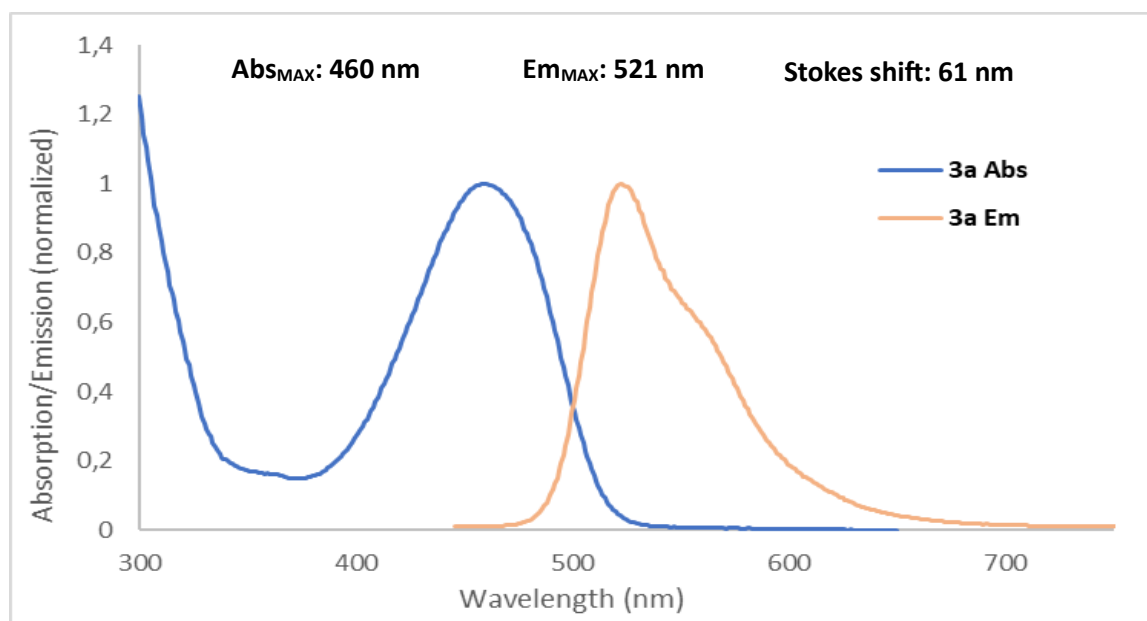
¹⁹F NMR spectrum of 3a



Mass spectrum of 3a

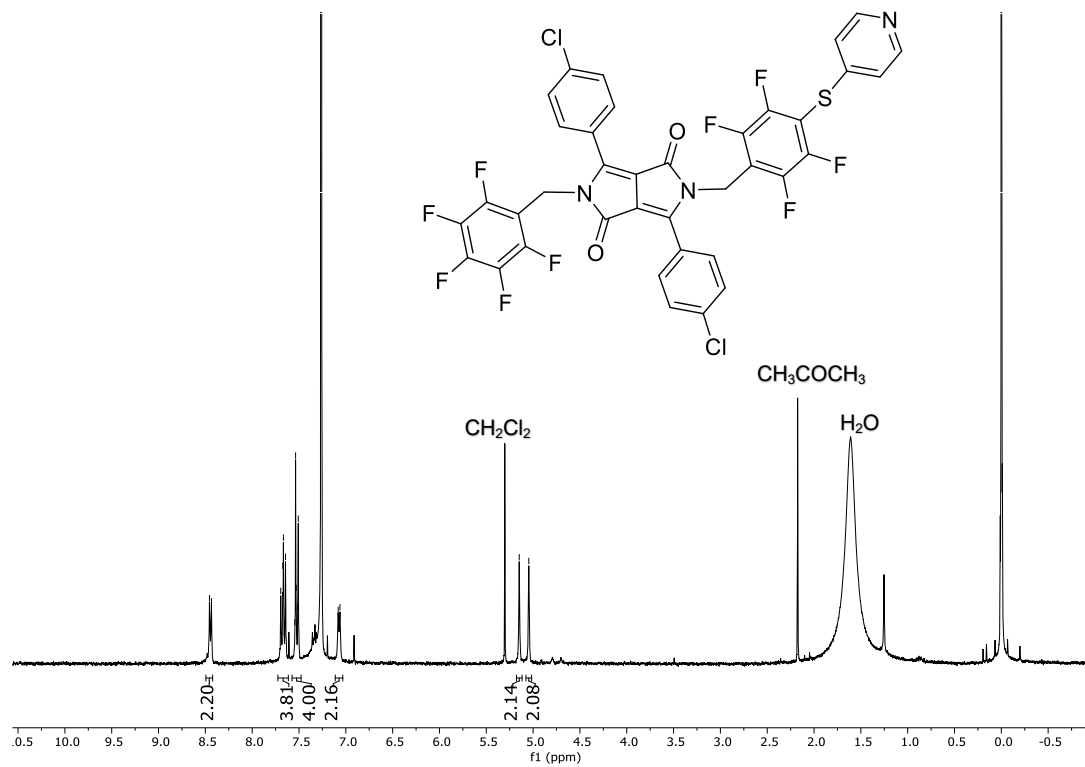


UV-vis and fluorescence spectra of 3a

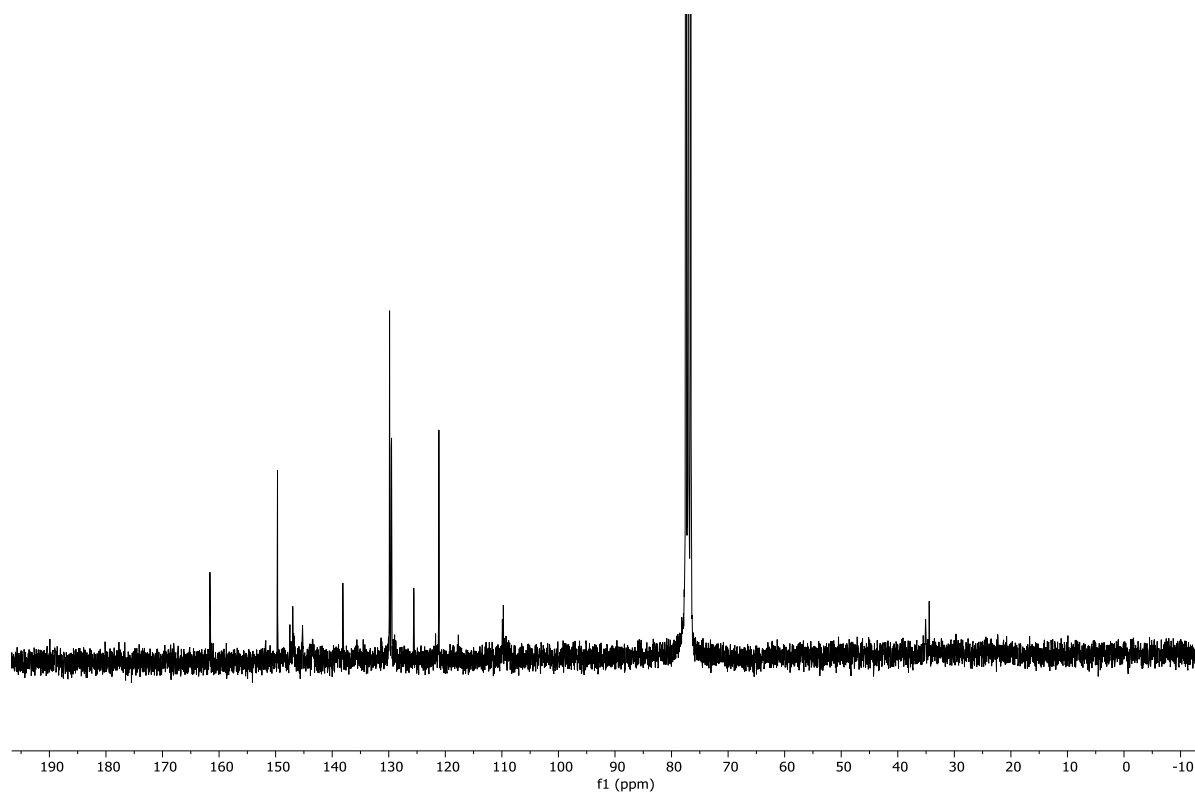


Compound 4a

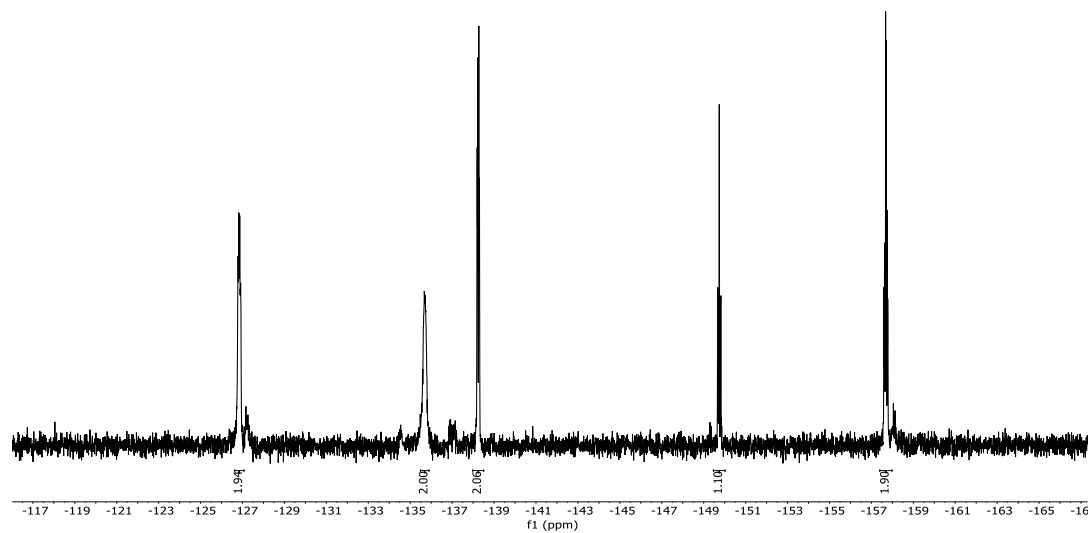
¹H NMR spectrum of 4a



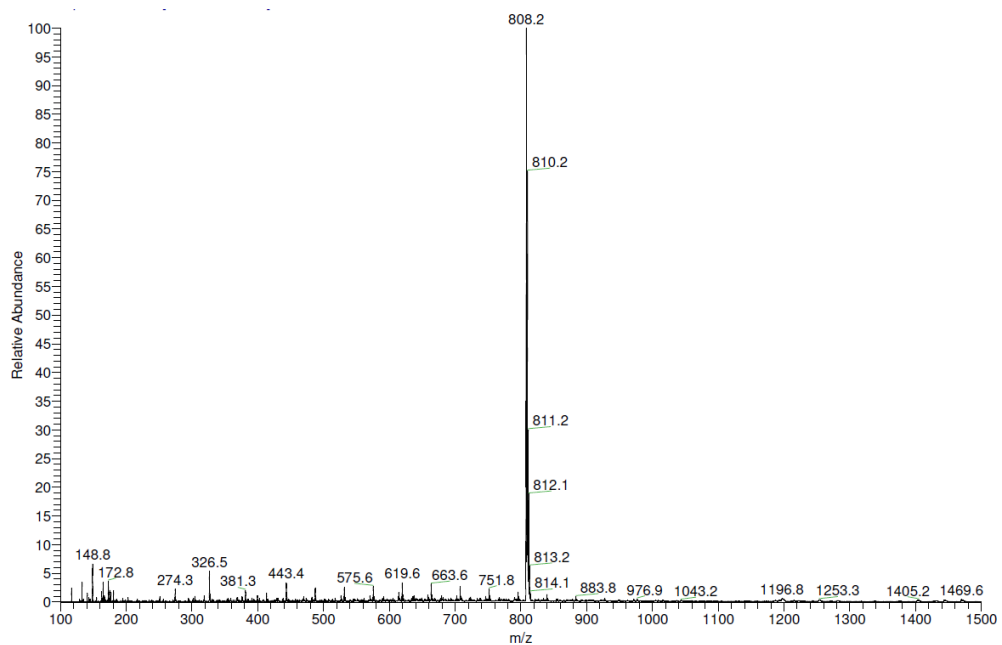
¹³C NMR spectrum of 4a



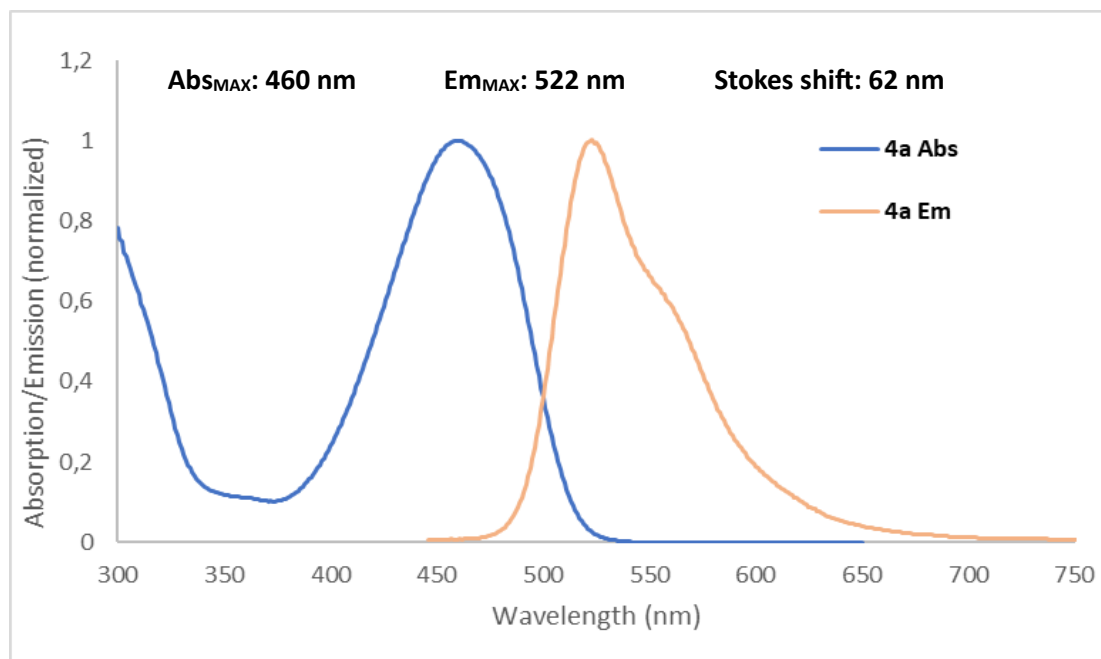
¹⁹F NMR spectrum of 4a



Mass spectrum of 4a

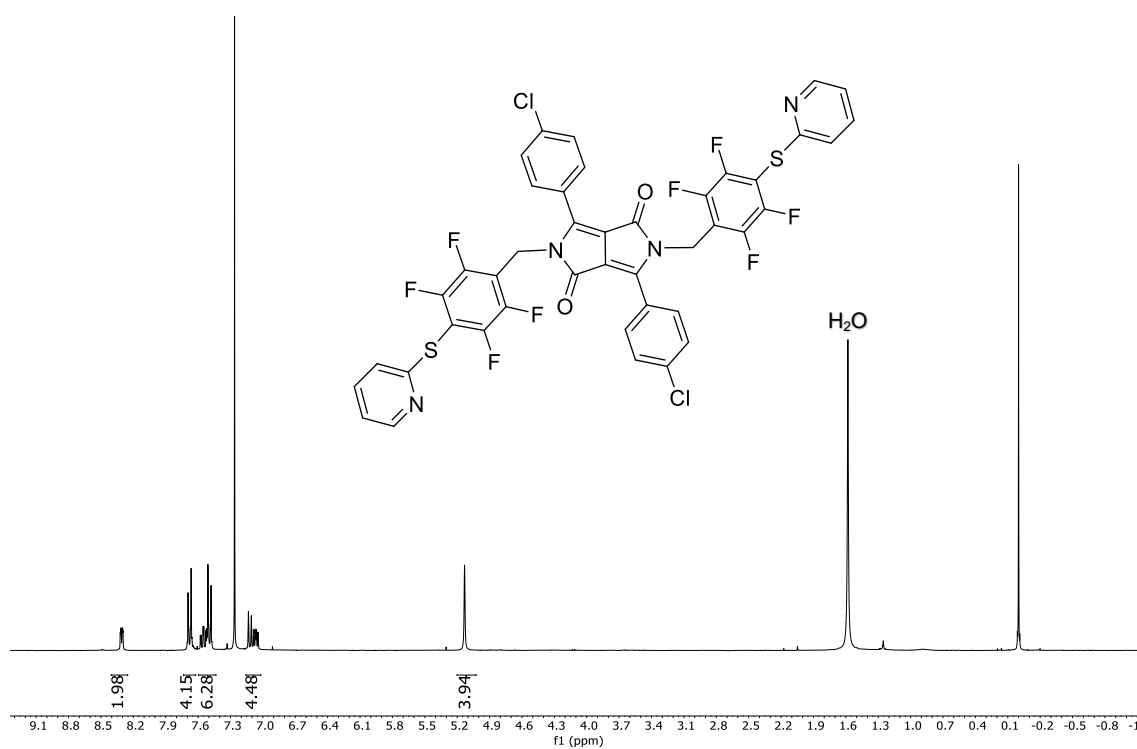


UV-vis and fluorescence spectra of 4a

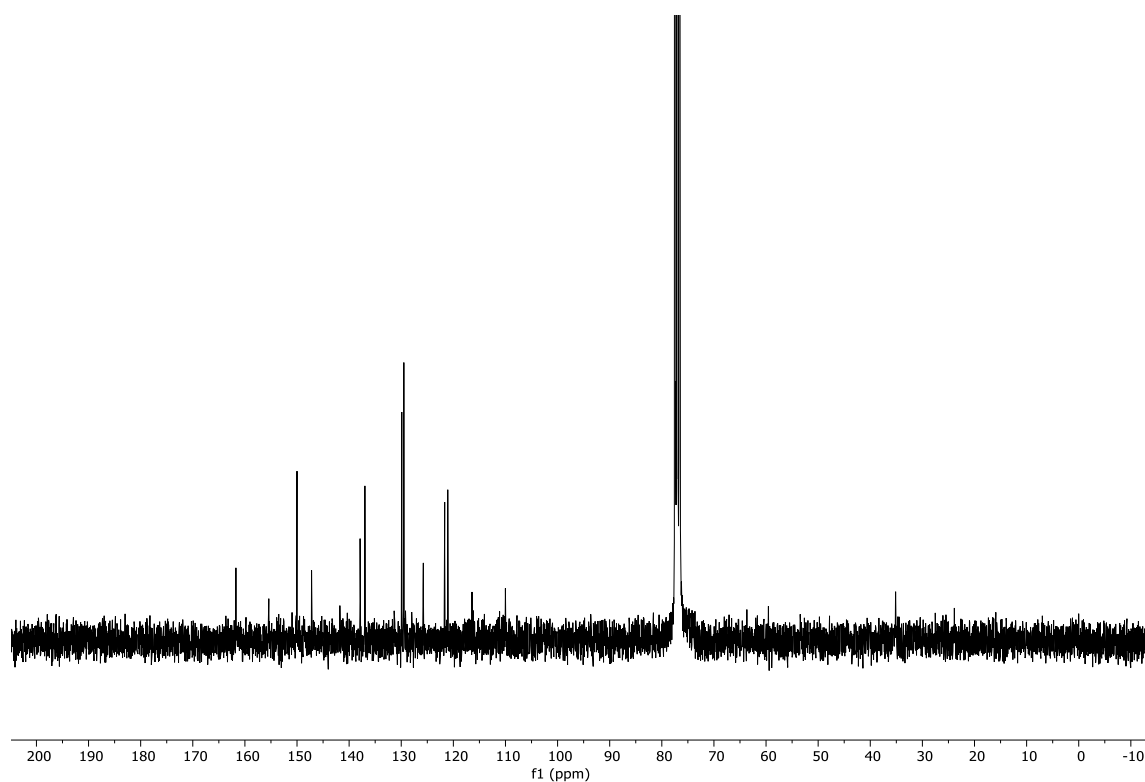


Compound 3b

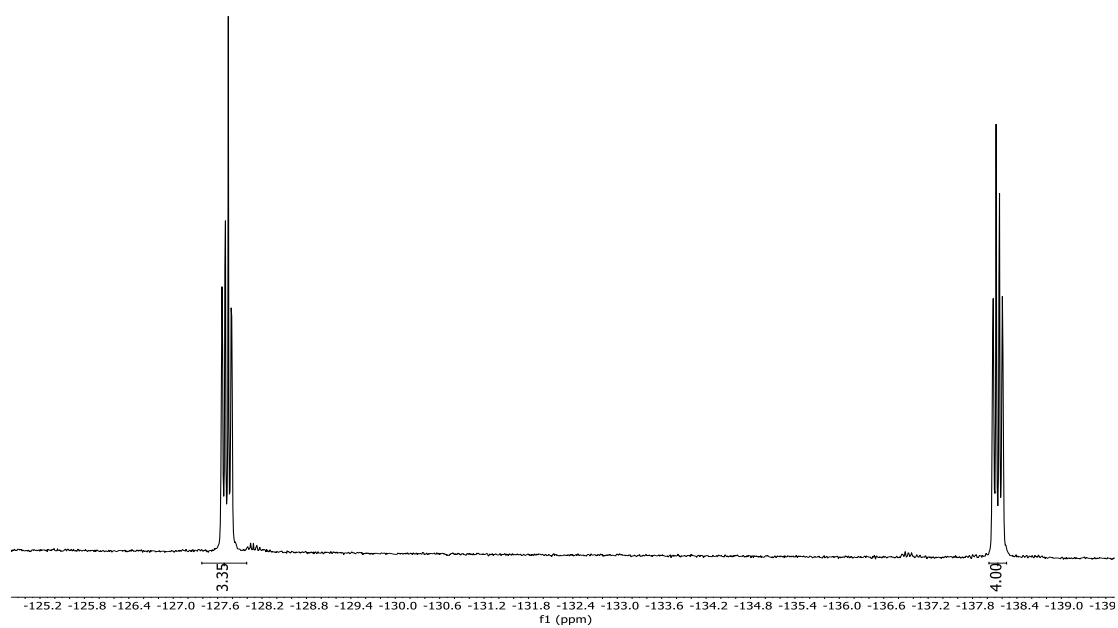
¹H NMR spectrum of 3b



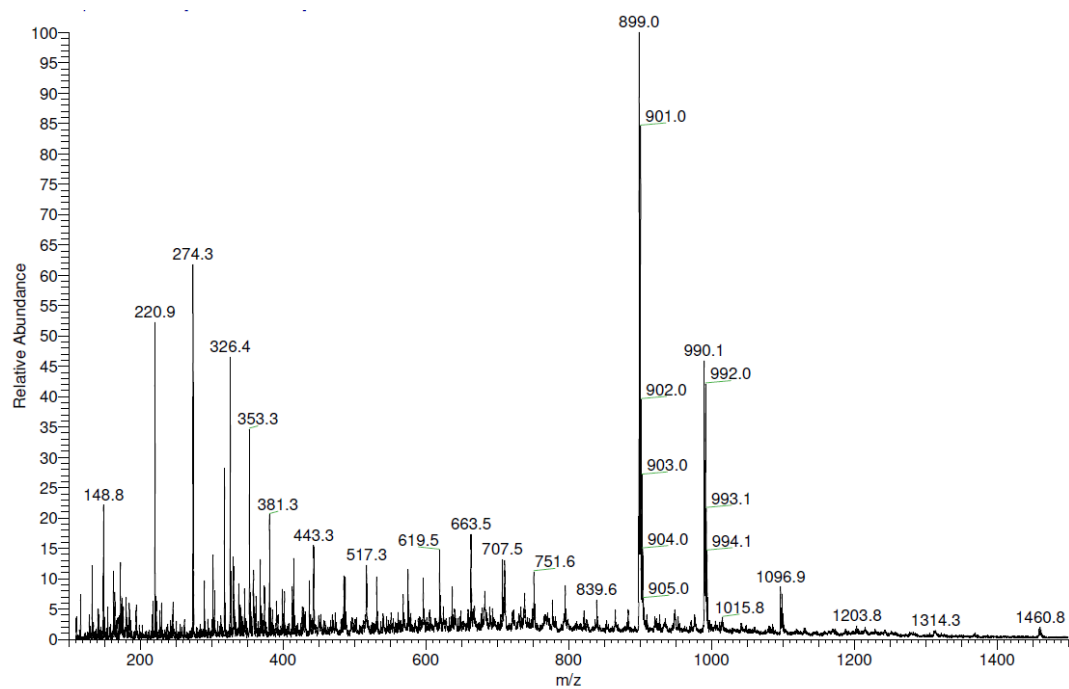
¹³C NMR spectrum of 3b



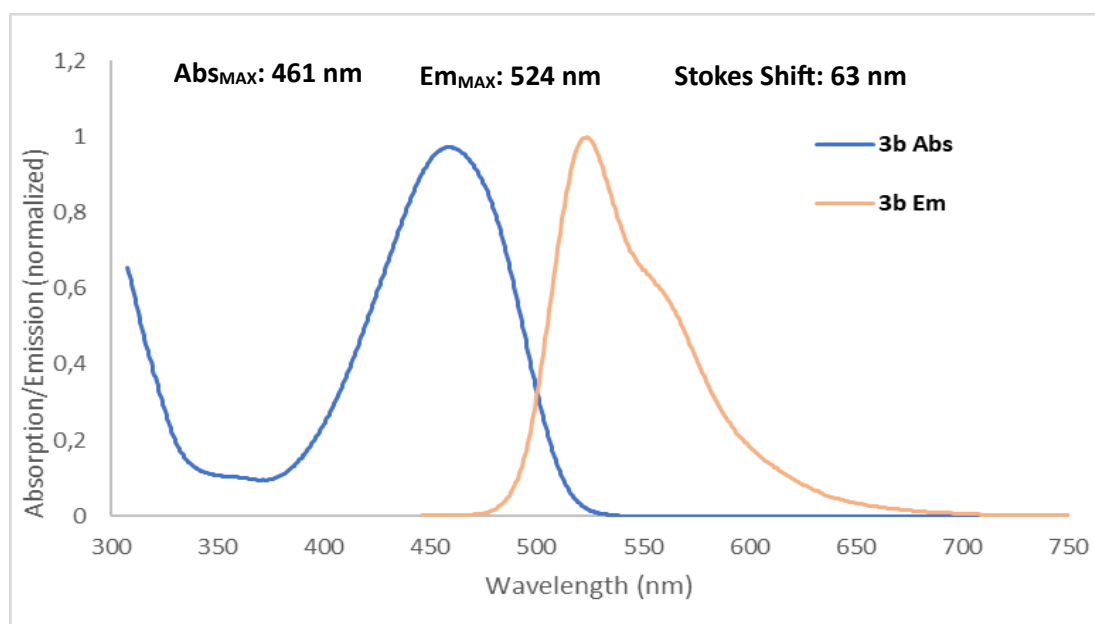
¹⁹F NMR spectrum of 3b



Mass spectrum of 3b

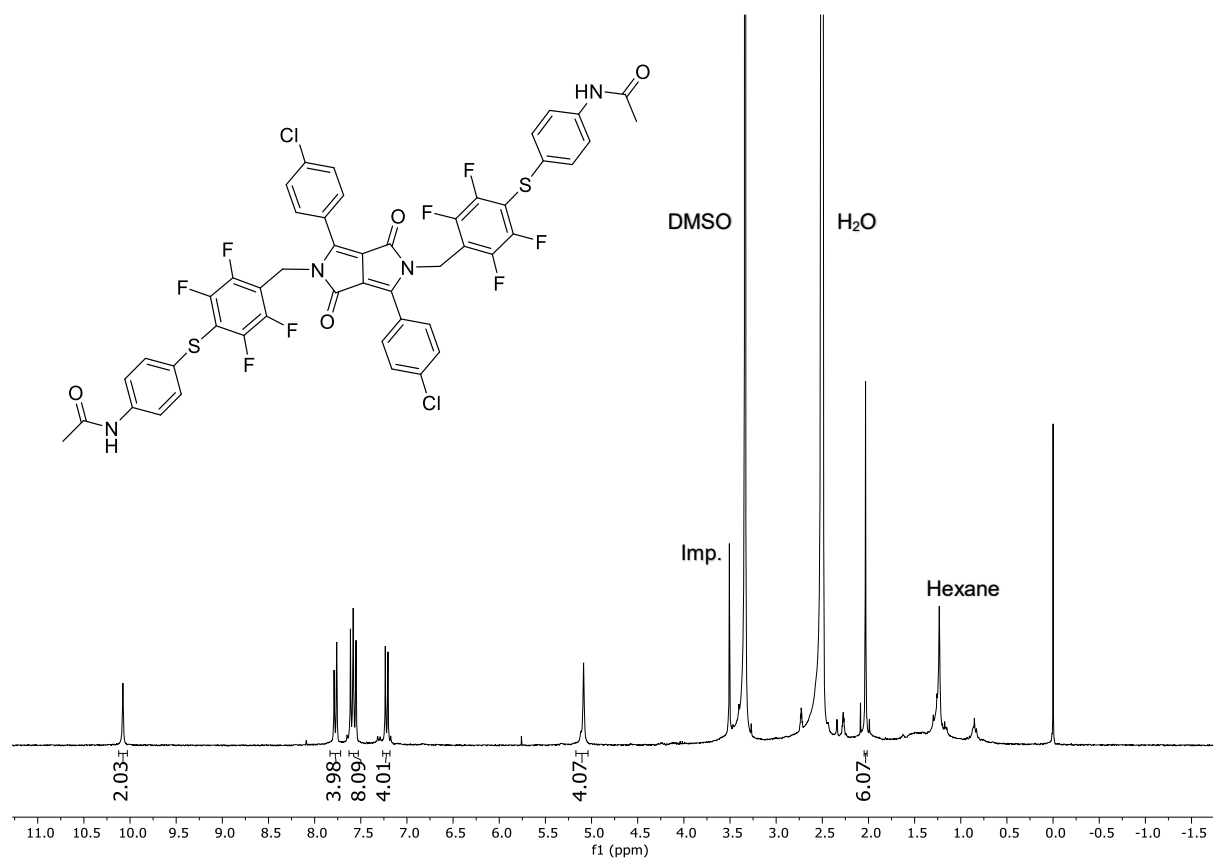


UV-vis and fluorescence spectra of 3b

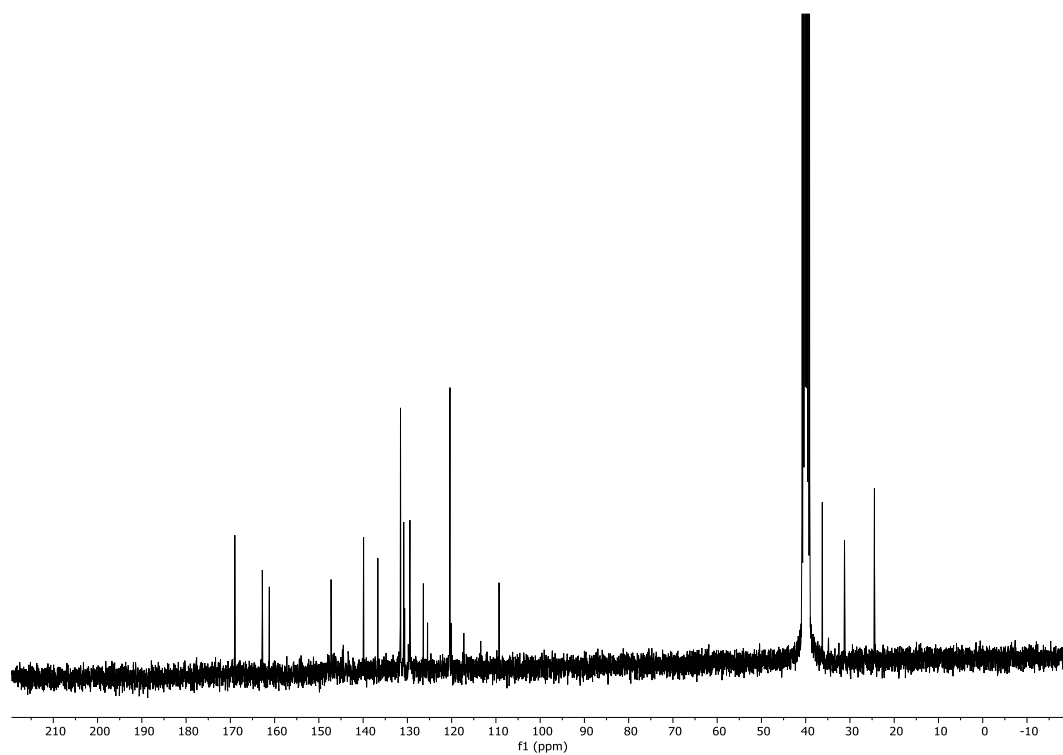


Compound 3c

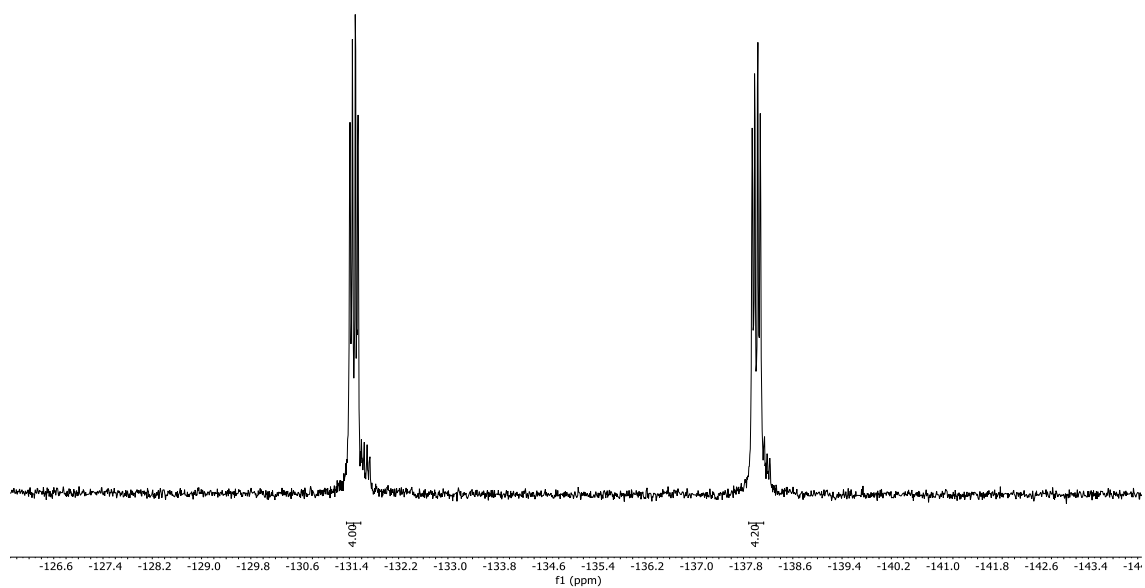
¹H NMR spectrum of 3c



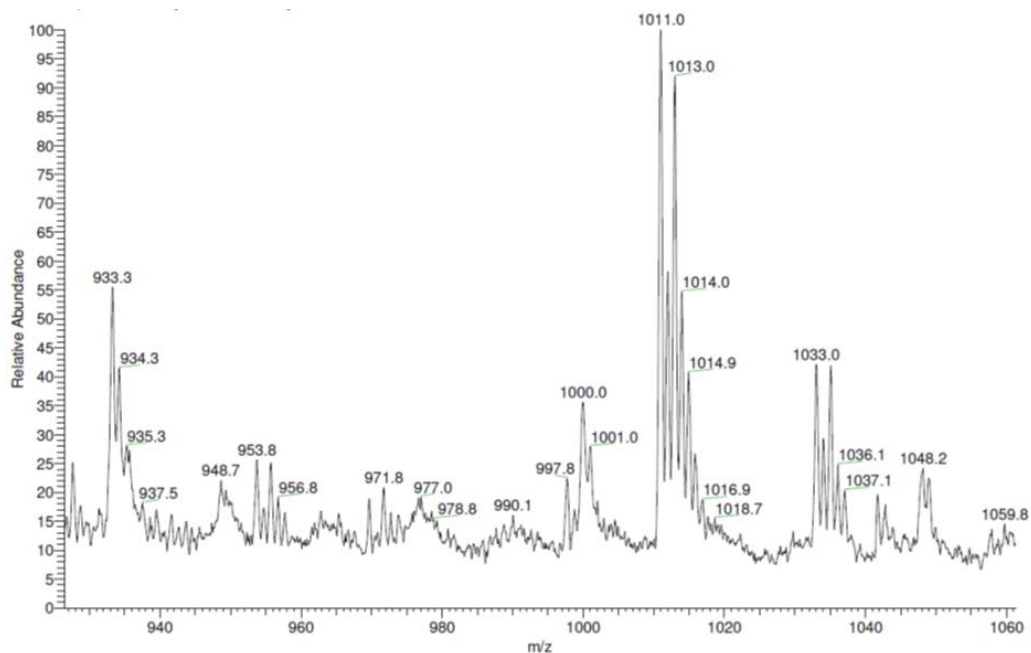
¹³C NMR spectrum of 3c



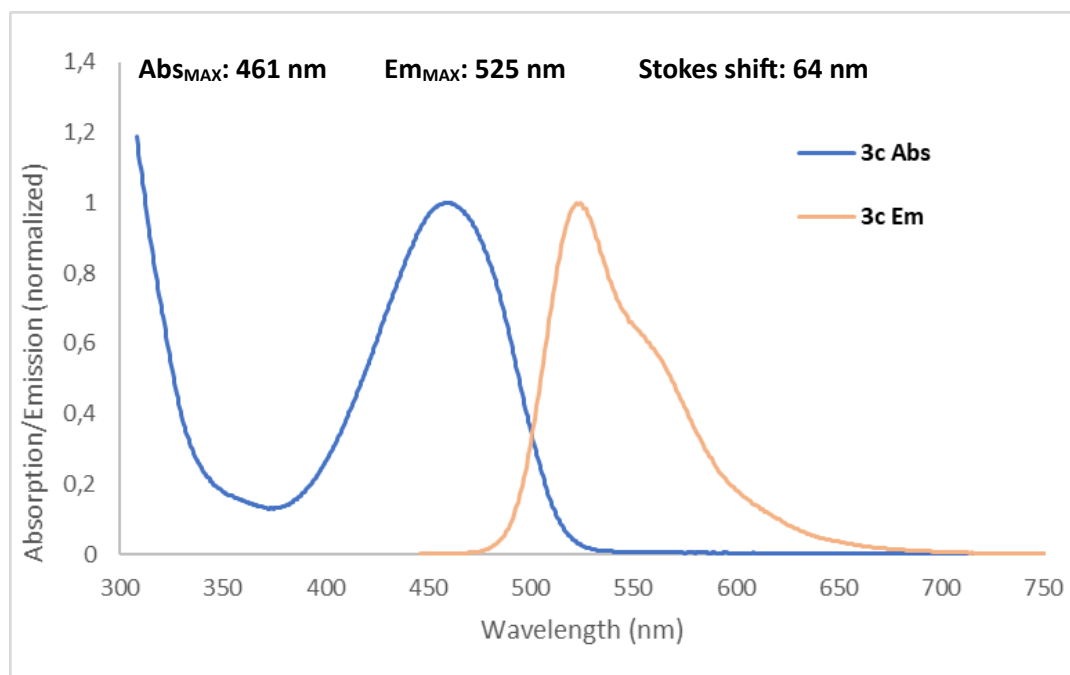
¹⁹F NMR spectrum of 3c



Mass spectrum of 3c

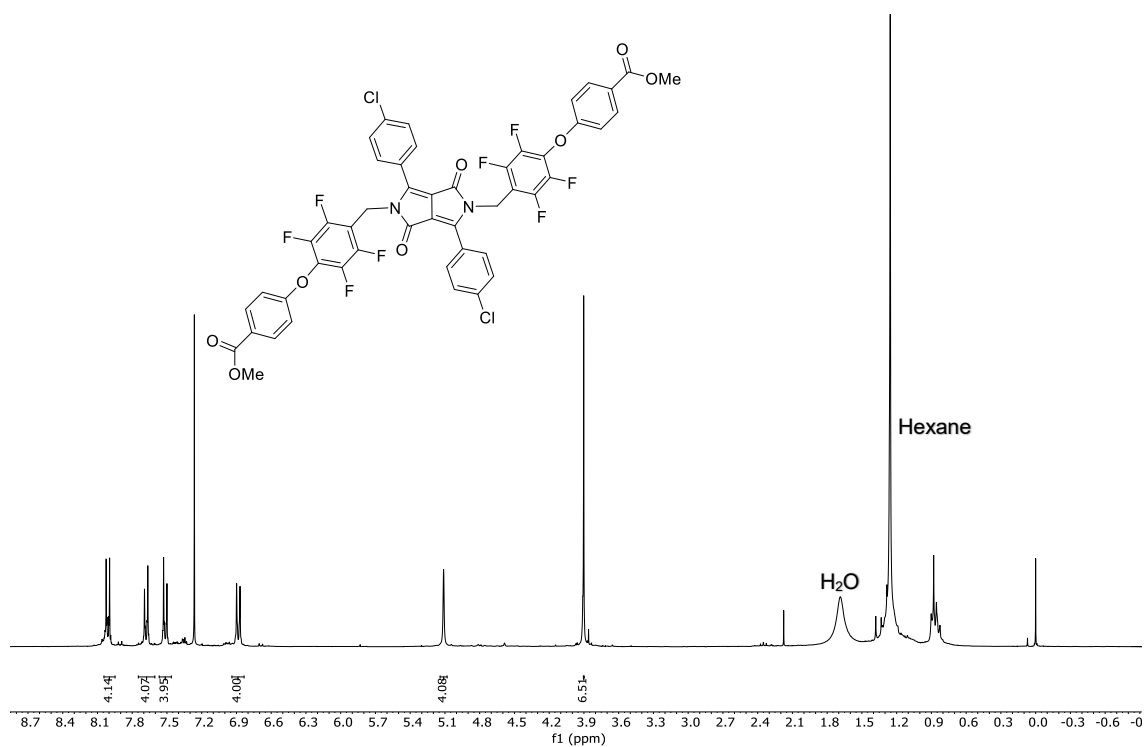


UV-vis and fluorescence spectra of 3c

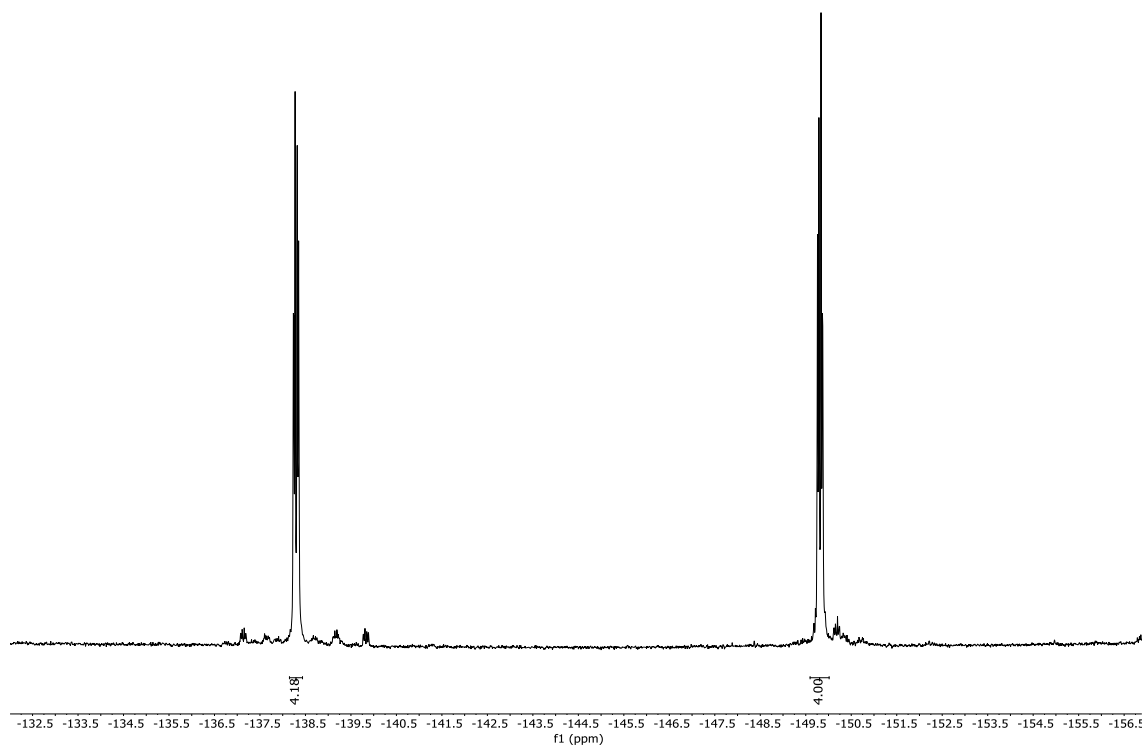


Compound 3d

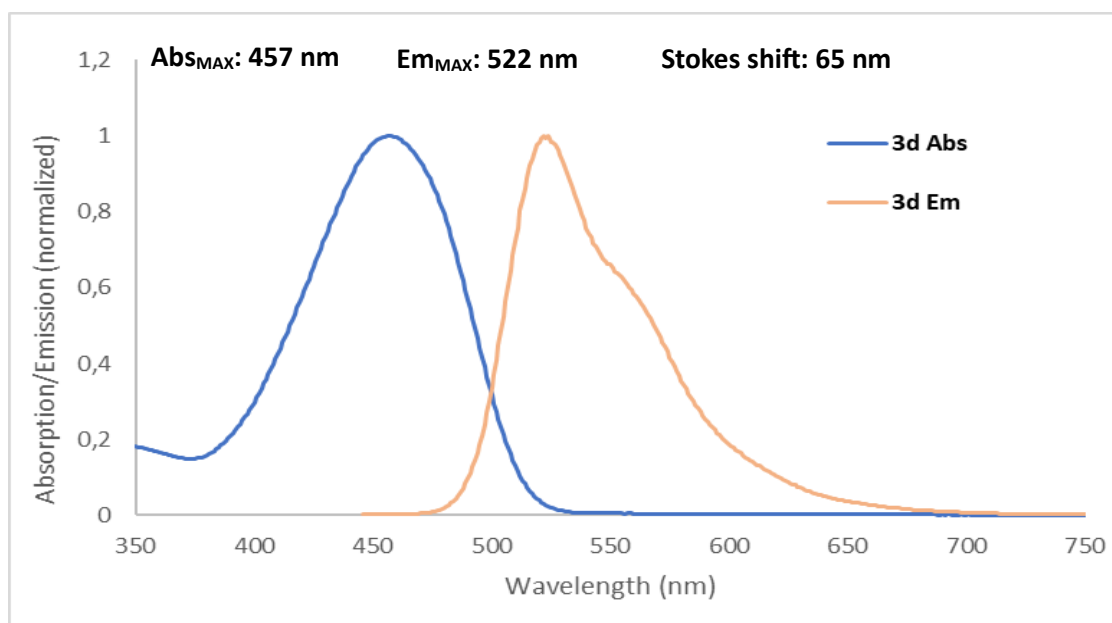
¹H NMR spectrum of 3d



¹⁹F NMR spectrum of 3d

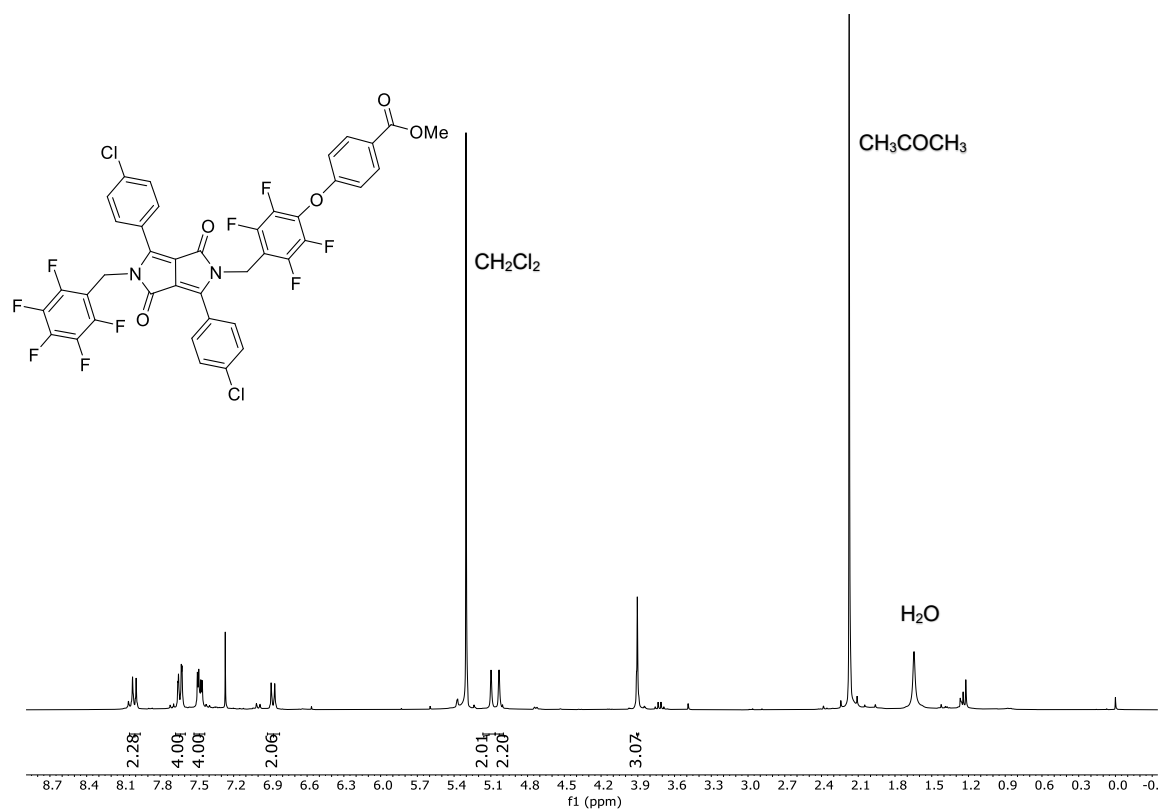


UV-vis and fluorescence spectra of 3d

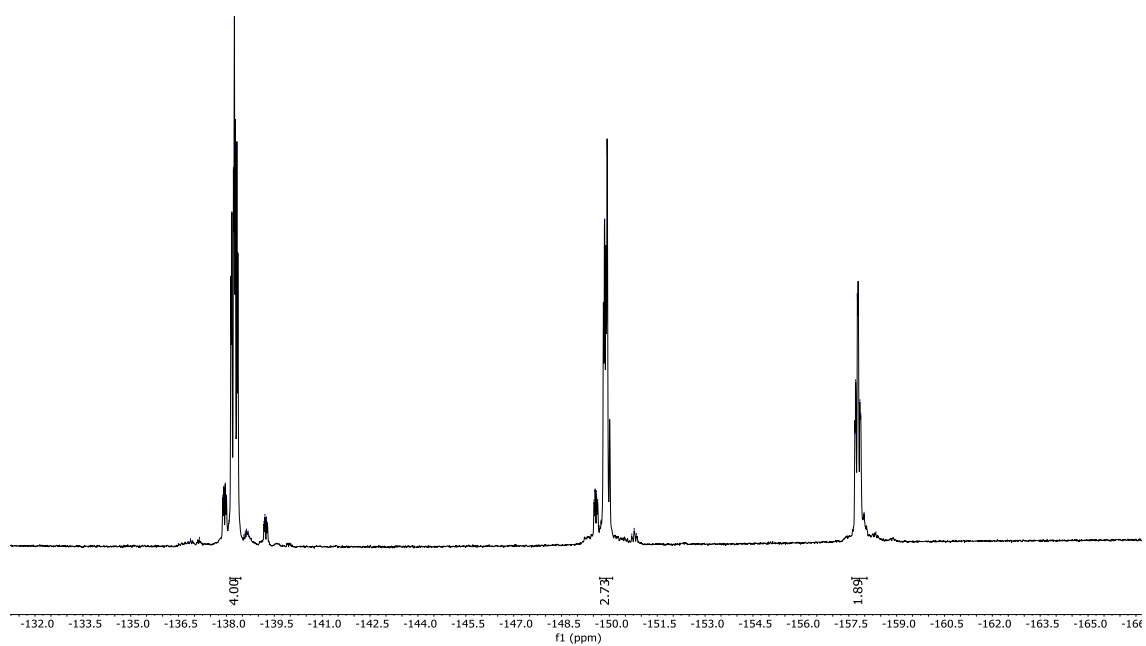


Compound 4d

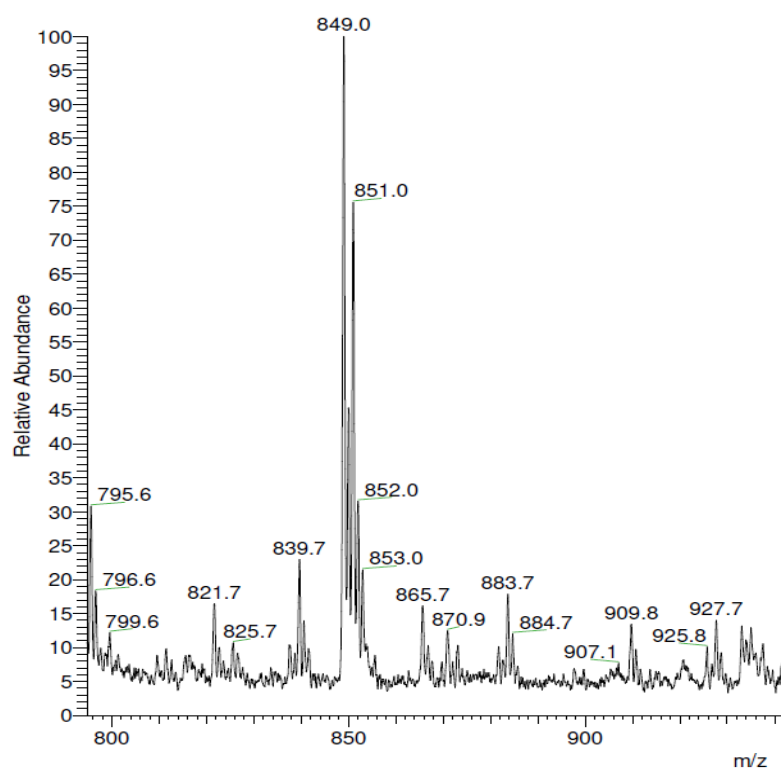
¹H NMR spectrum of 4d



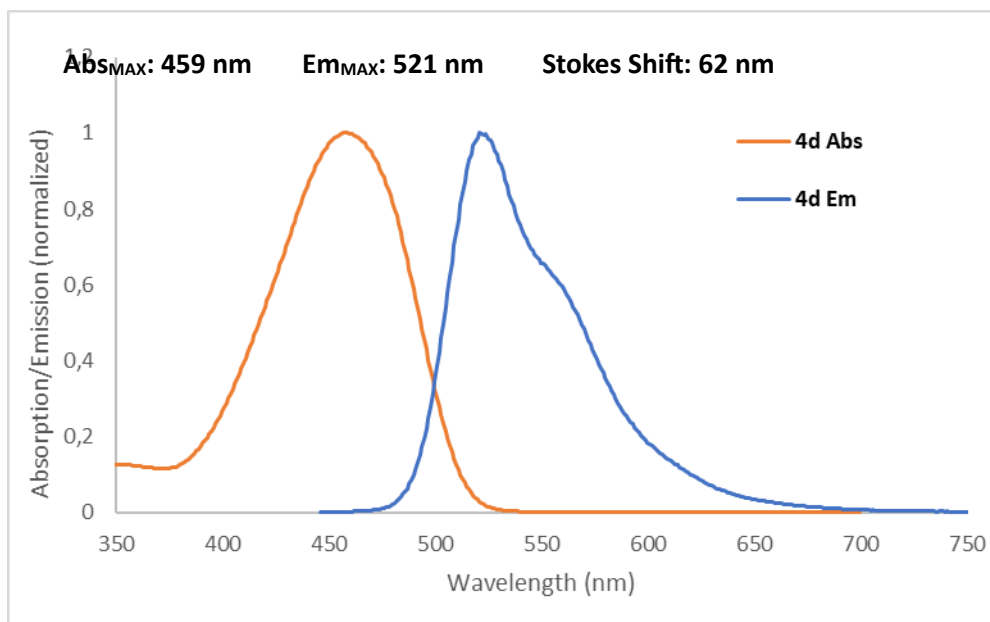
¹⁹F NMR spectrum of 4d



Mass spectrum of 4d

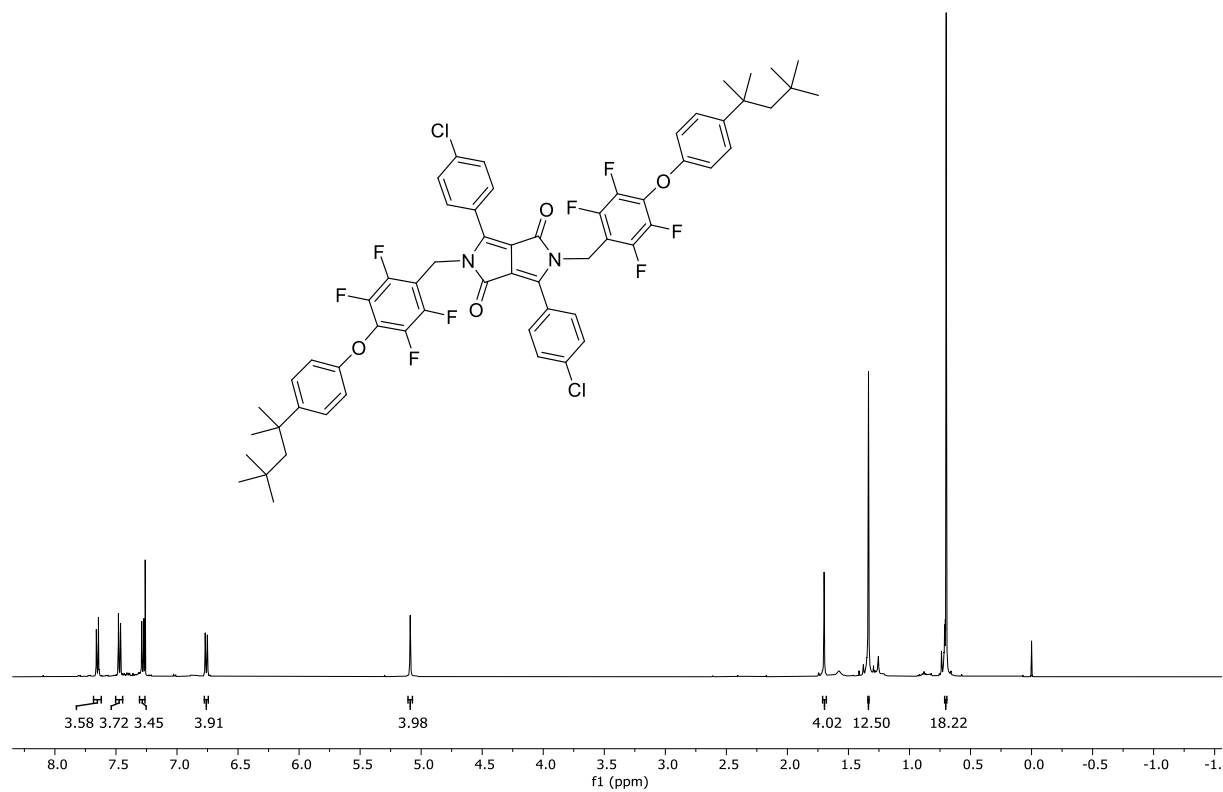


UV-vis and fluorescence spectra of 4d

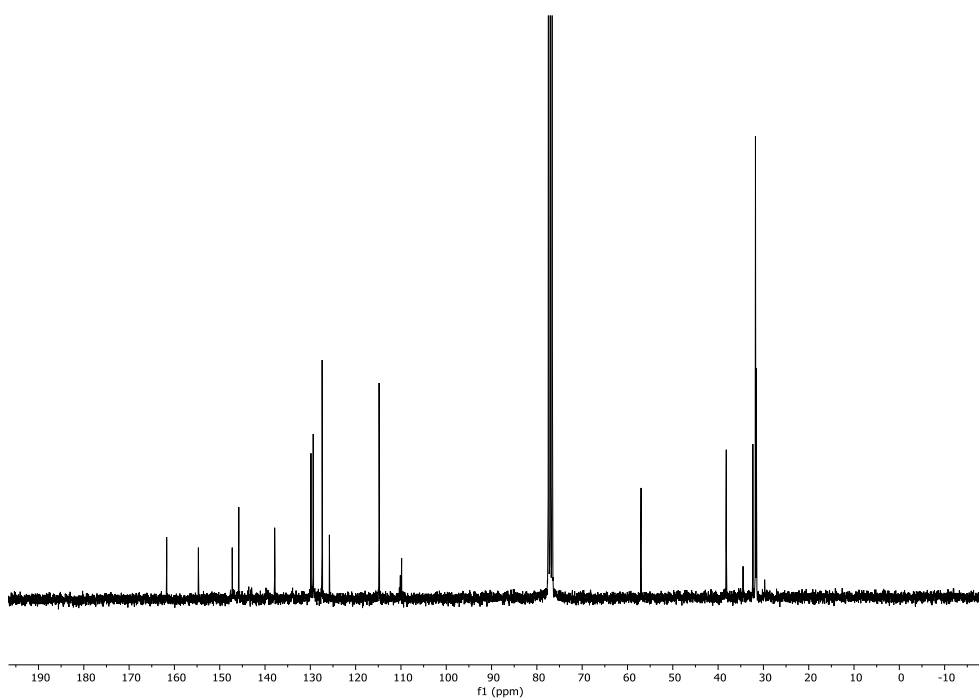


Compound 3e

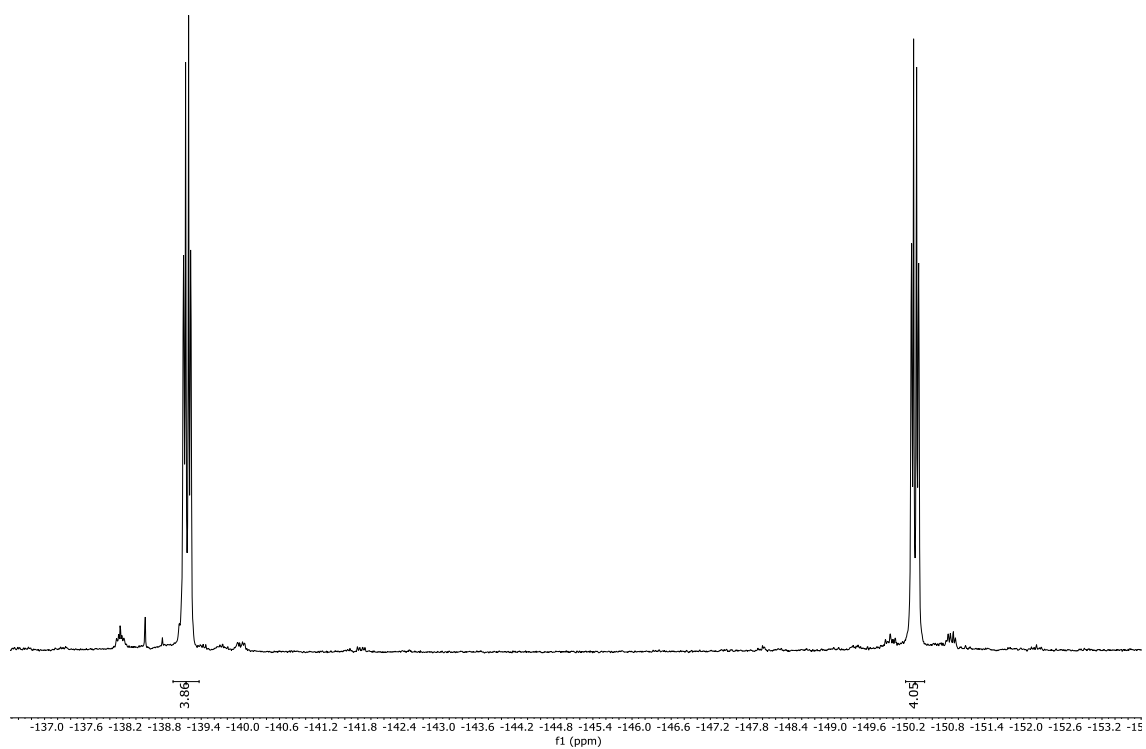
¹H NMR spectrum of 3e



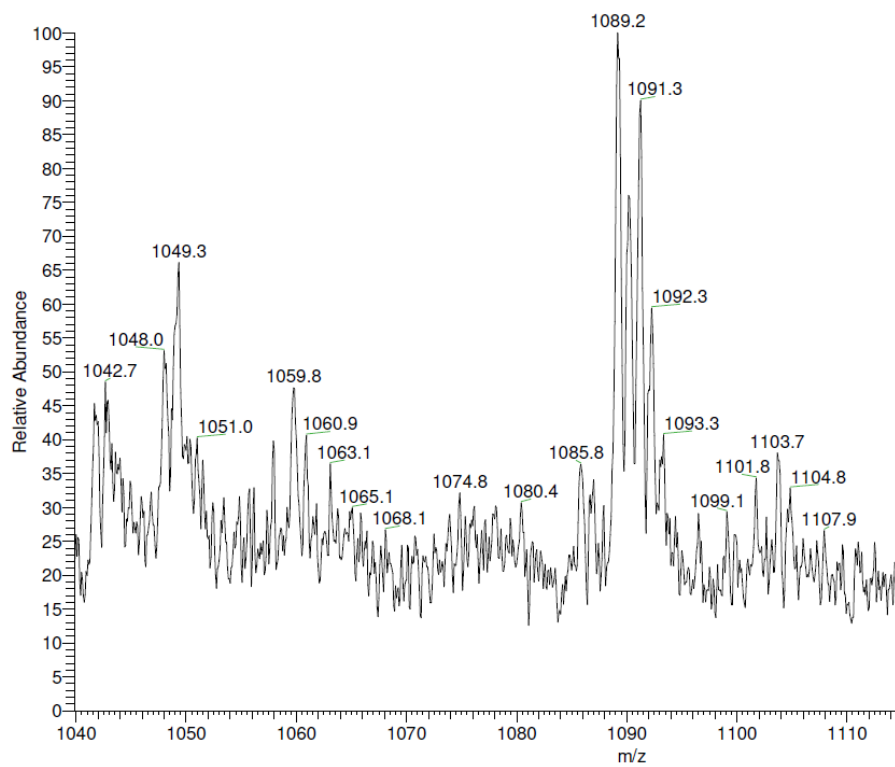
¹³C NMR spectrum of 3e



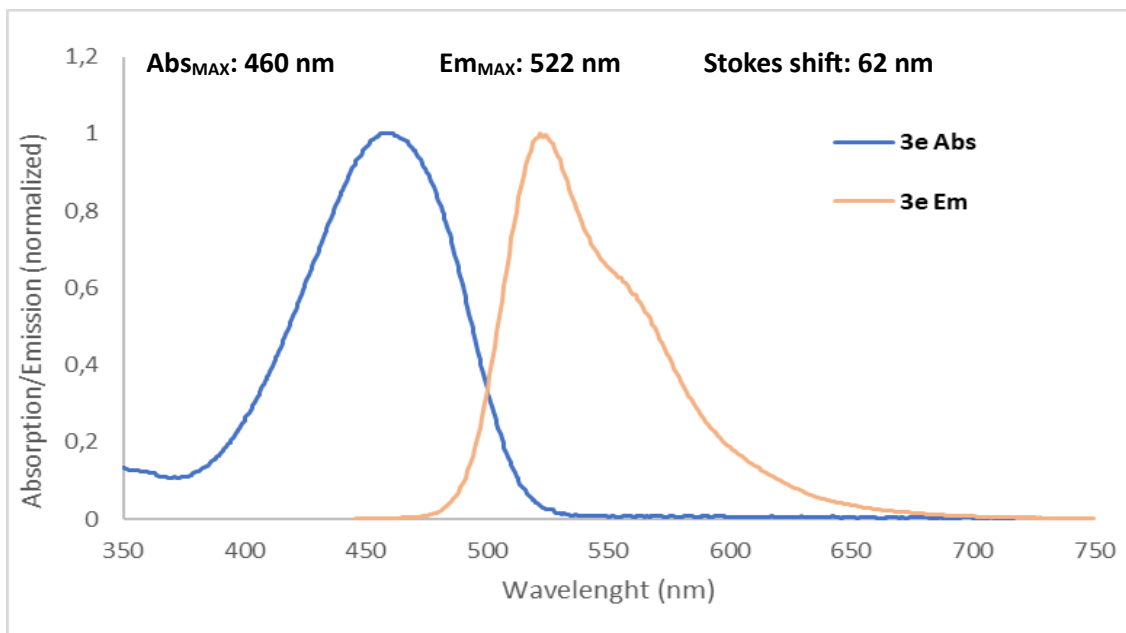
^{19}F NMR spectrum of 3e



Mass spectrum of 3e

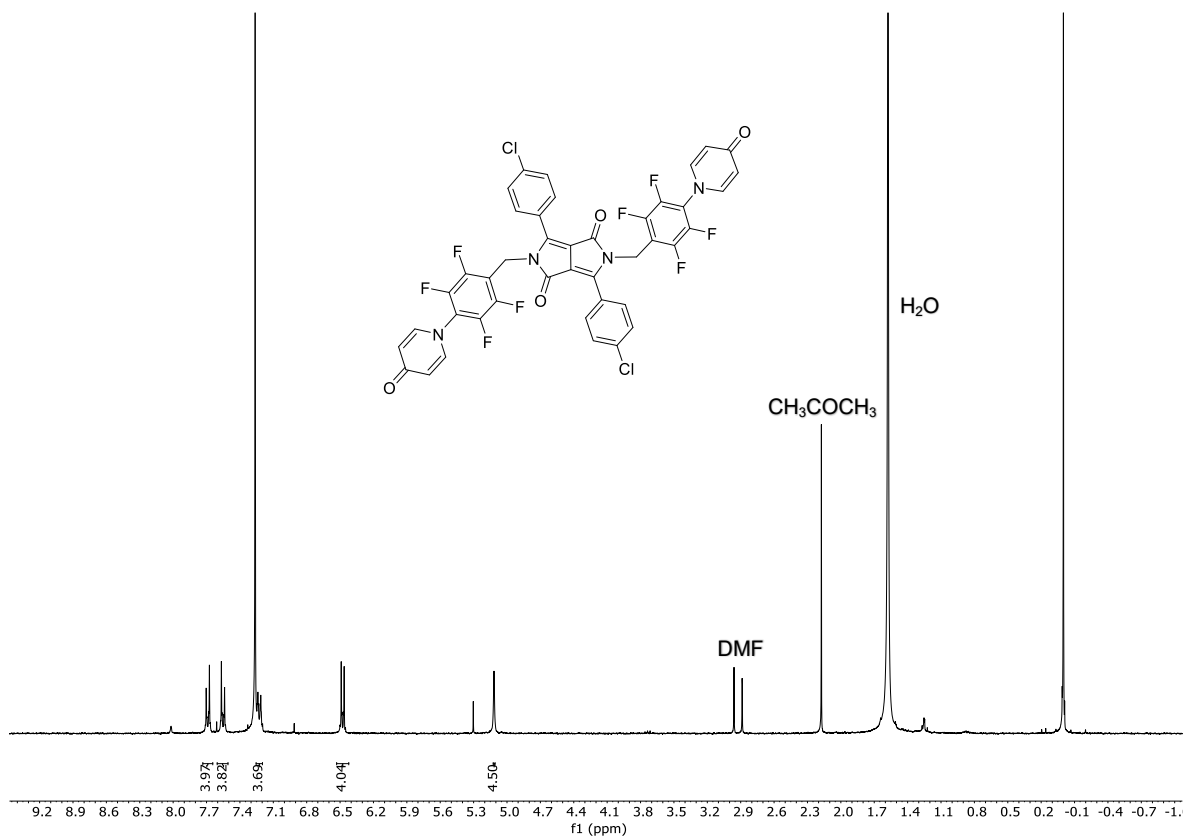


UV-vis and fluorescence spectra of 3e

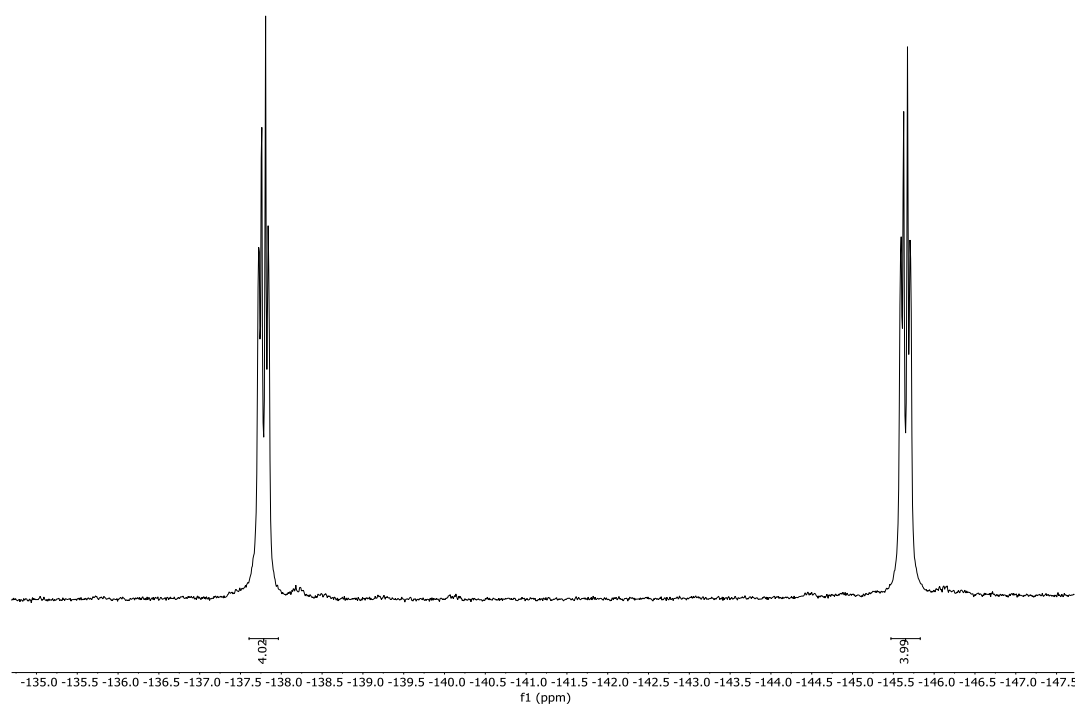


Compound 3f

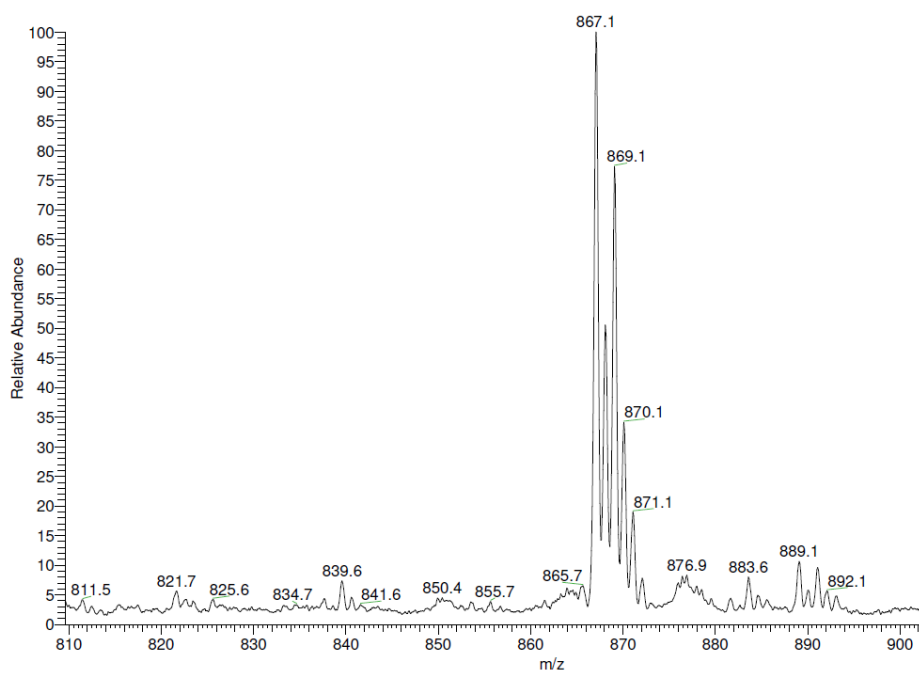
¹H NMR spectrum of 3f



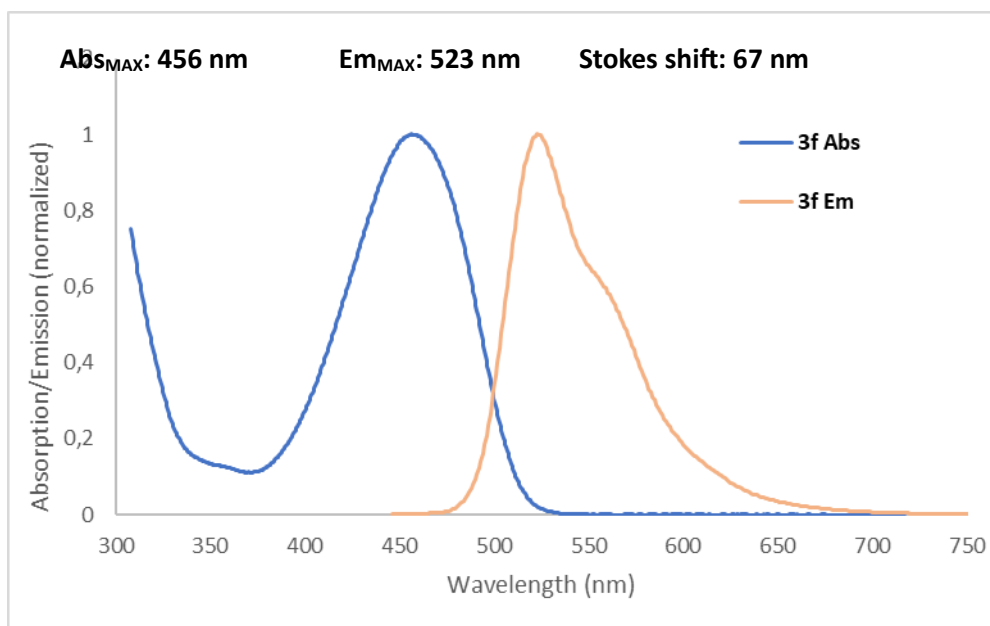
¹⁹F NMR spectrum of 3f



Mass spectrum of 3f

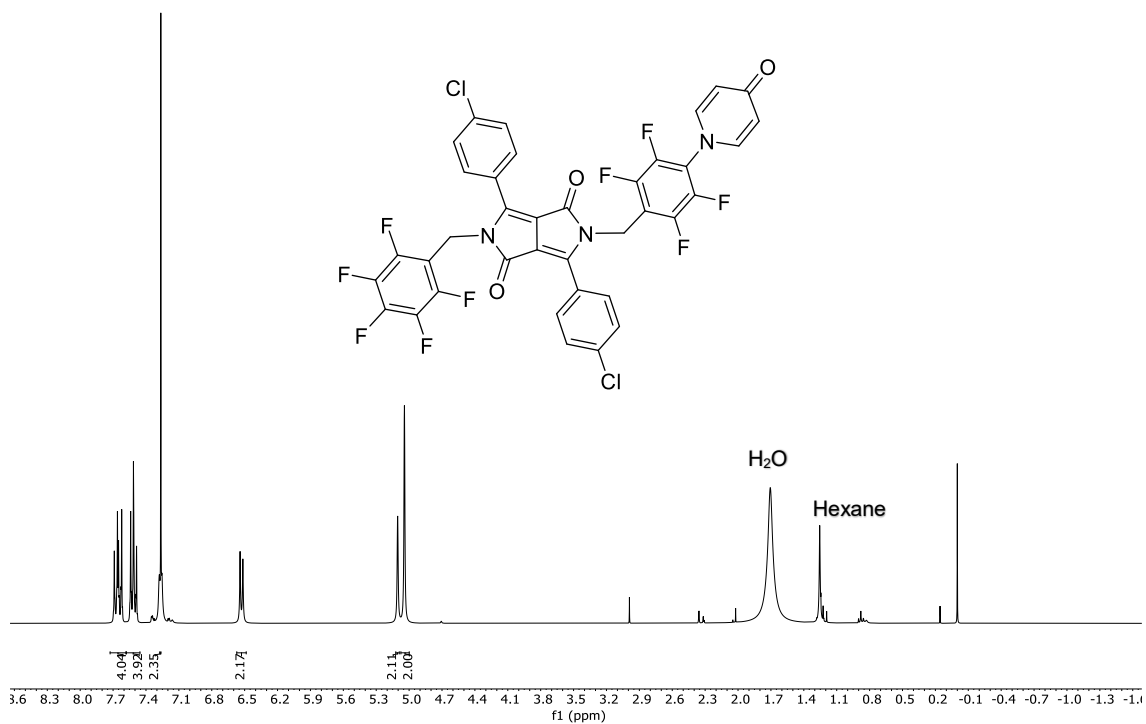


UV-vis and fluorescence spectra of 3f

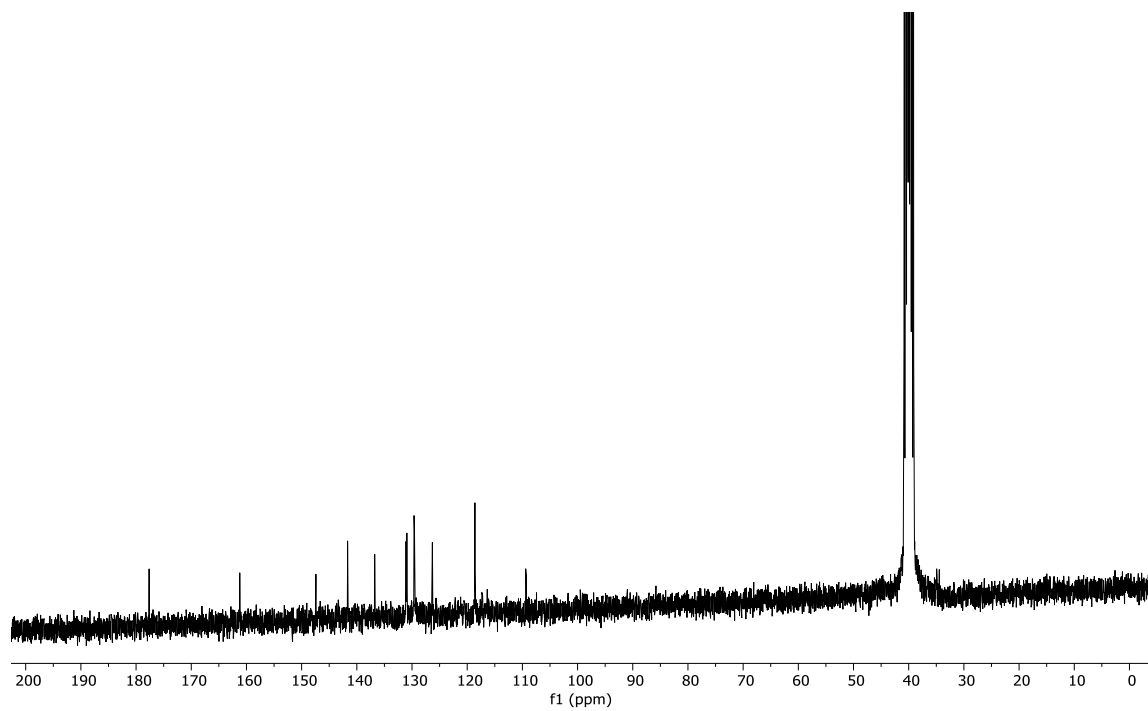


Compound 4f

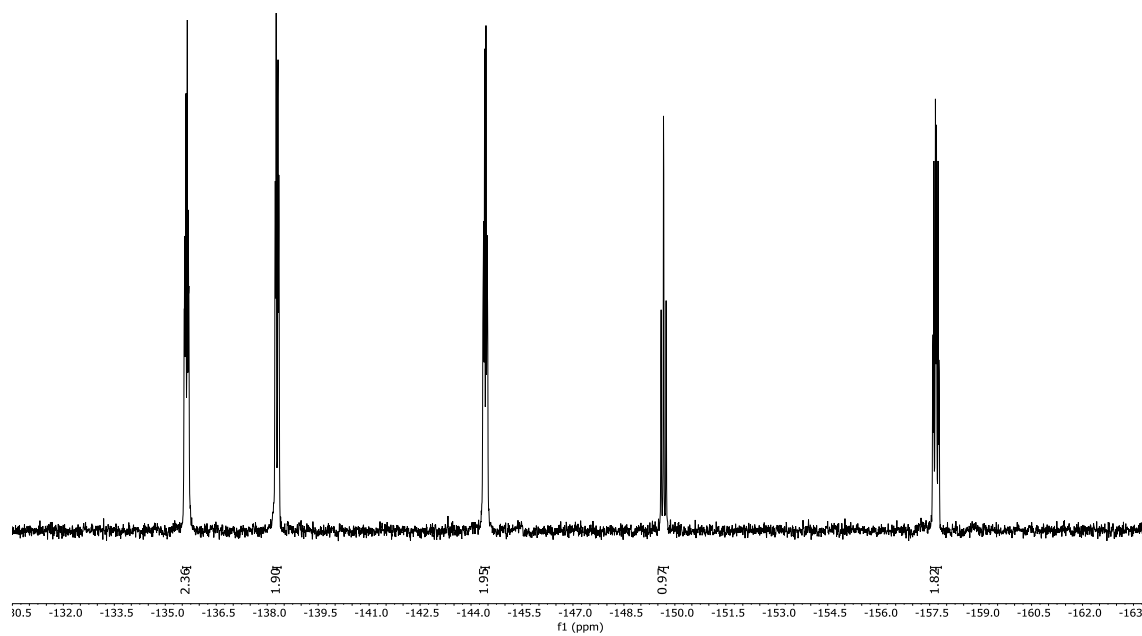
¹H NMR spectrum of 4f



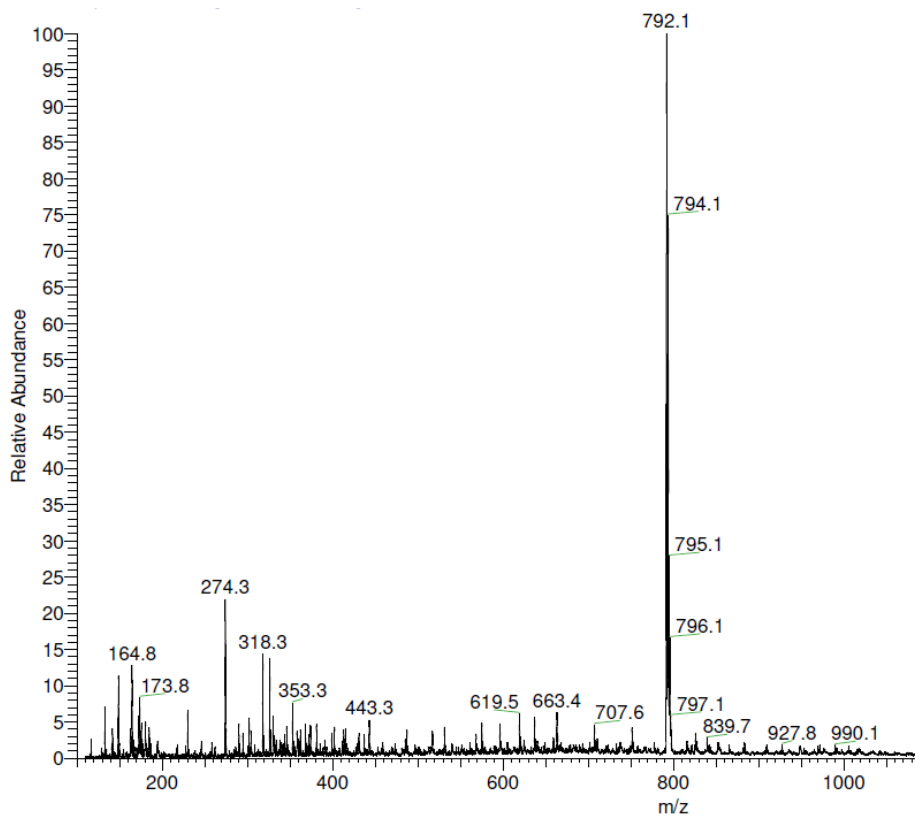
^{13}C NMR spectrum of 4f



^{19}F NMR spectrum of 4f



Mass spectrum of 4f



UV-vis and fluorescence spectra of 4f

