Supporting Information

Mono-DMSO Ligated Cobalt Nitrophenylcorroles: Electrochemical and Spectral Characterization

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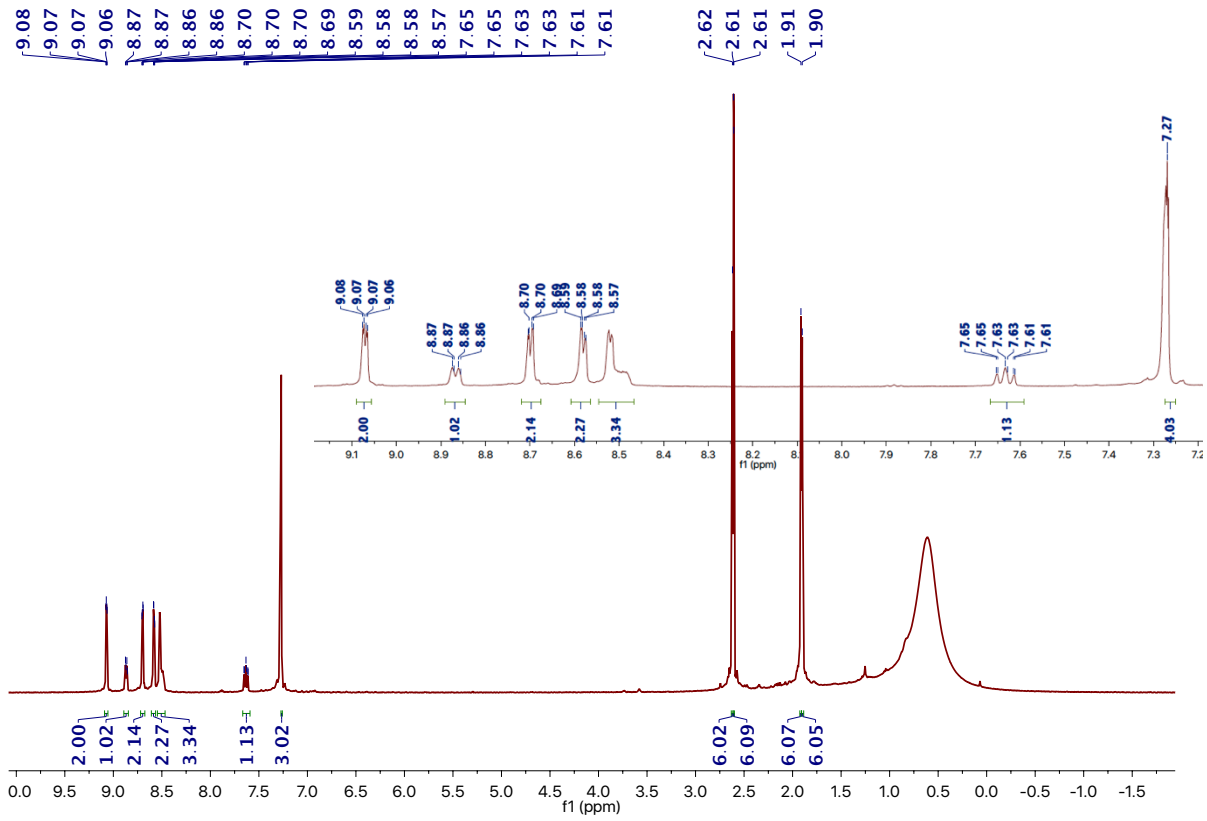
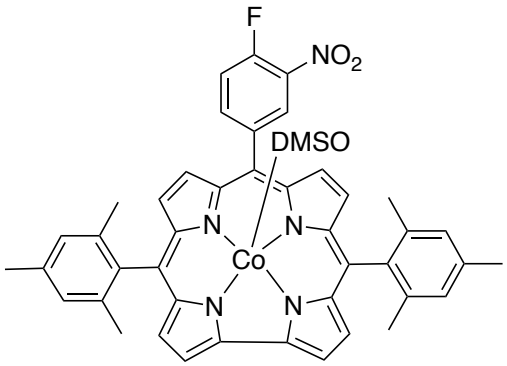
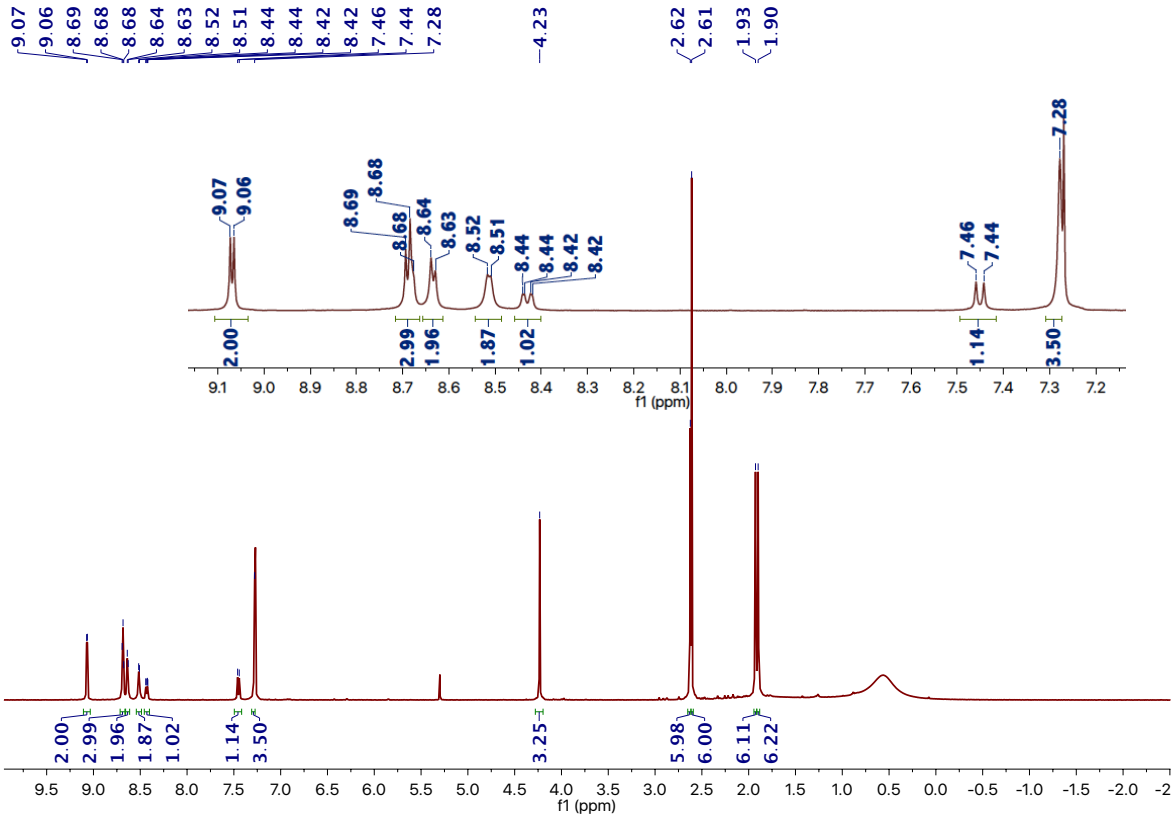
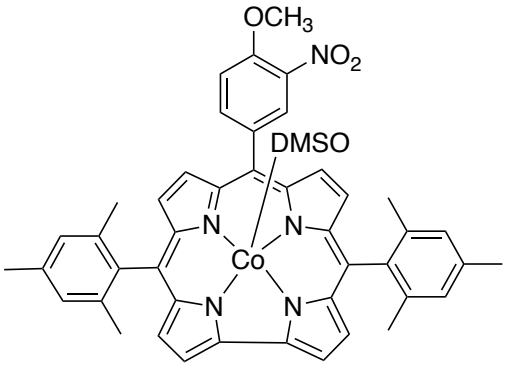




Chemical Formula: $C_{45}H_{39}CoFN_5O_3S$
Exact Mass: 807.2090
Molecular Weight: 807.8306

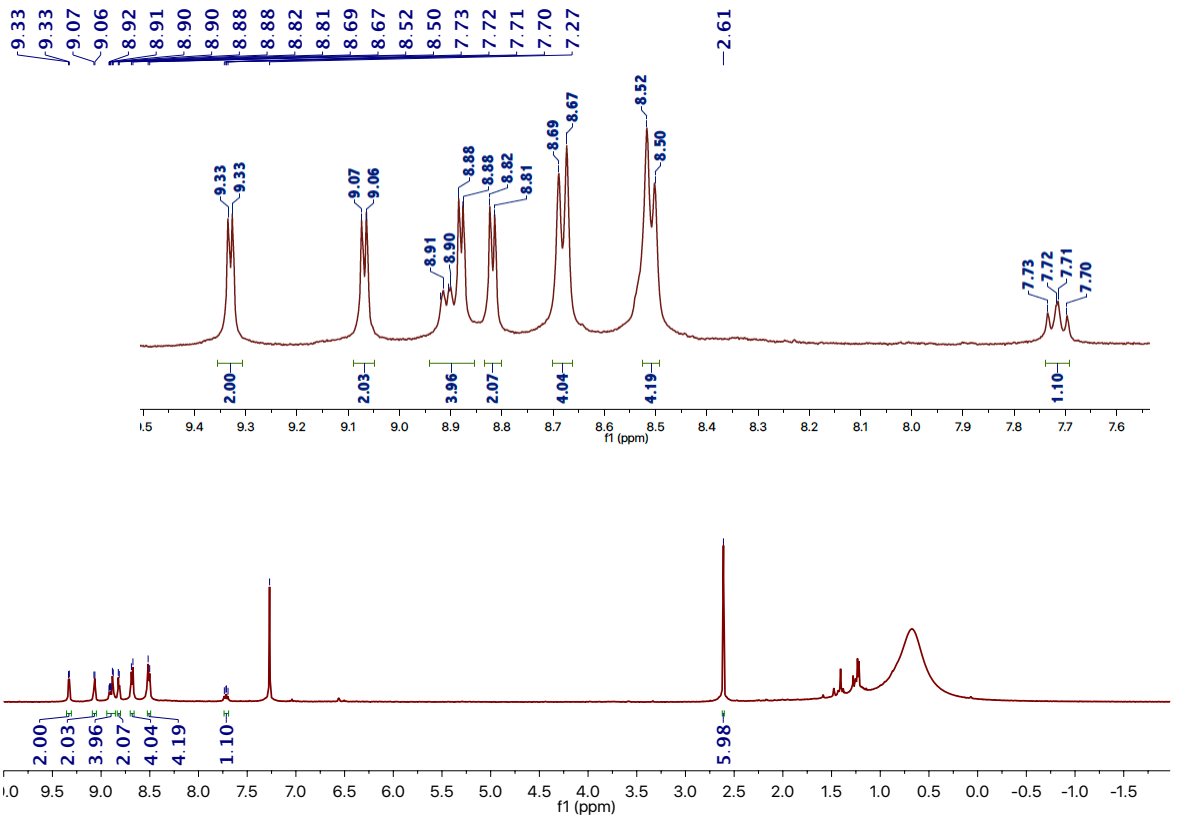
Figure S1. ^{1}H NMR spectrum of **1**

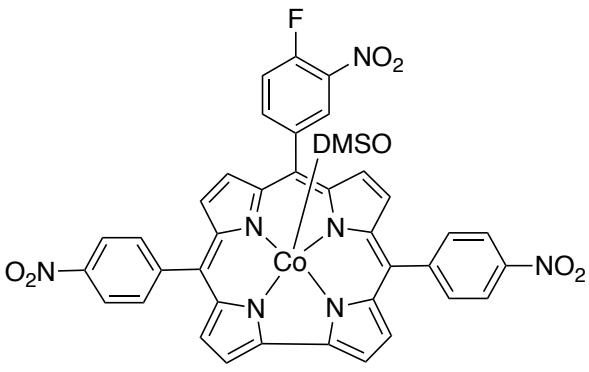




Chemical Formula: $C_{46}H_{42}CoN_5O_4S$
Exact Mass: 819.2290
Molecular Weight: 819.8662

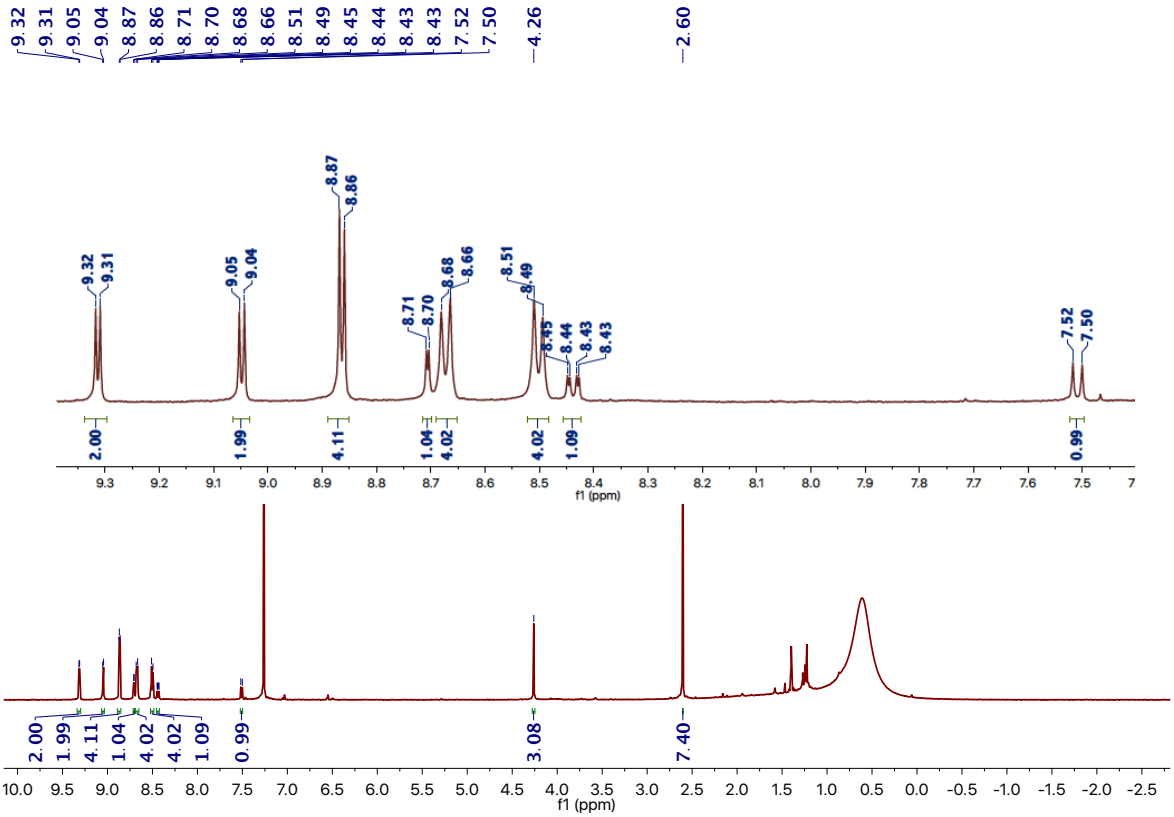
Figure S2. ^{1}H NMR spectrum of **2**

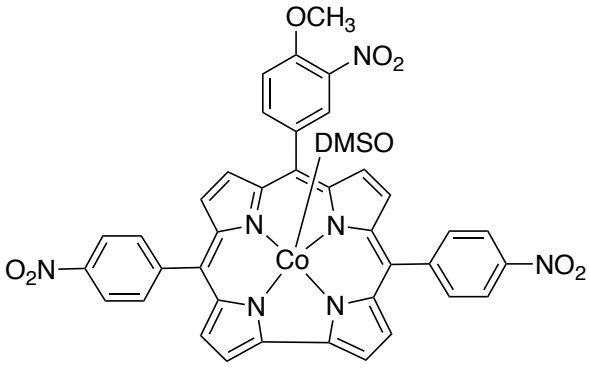




Chemical Formula: $C_{39}H_{25}CoFN_7O_7S$
Exact Mass: 813.0852
Molecular Weight: 813.6626

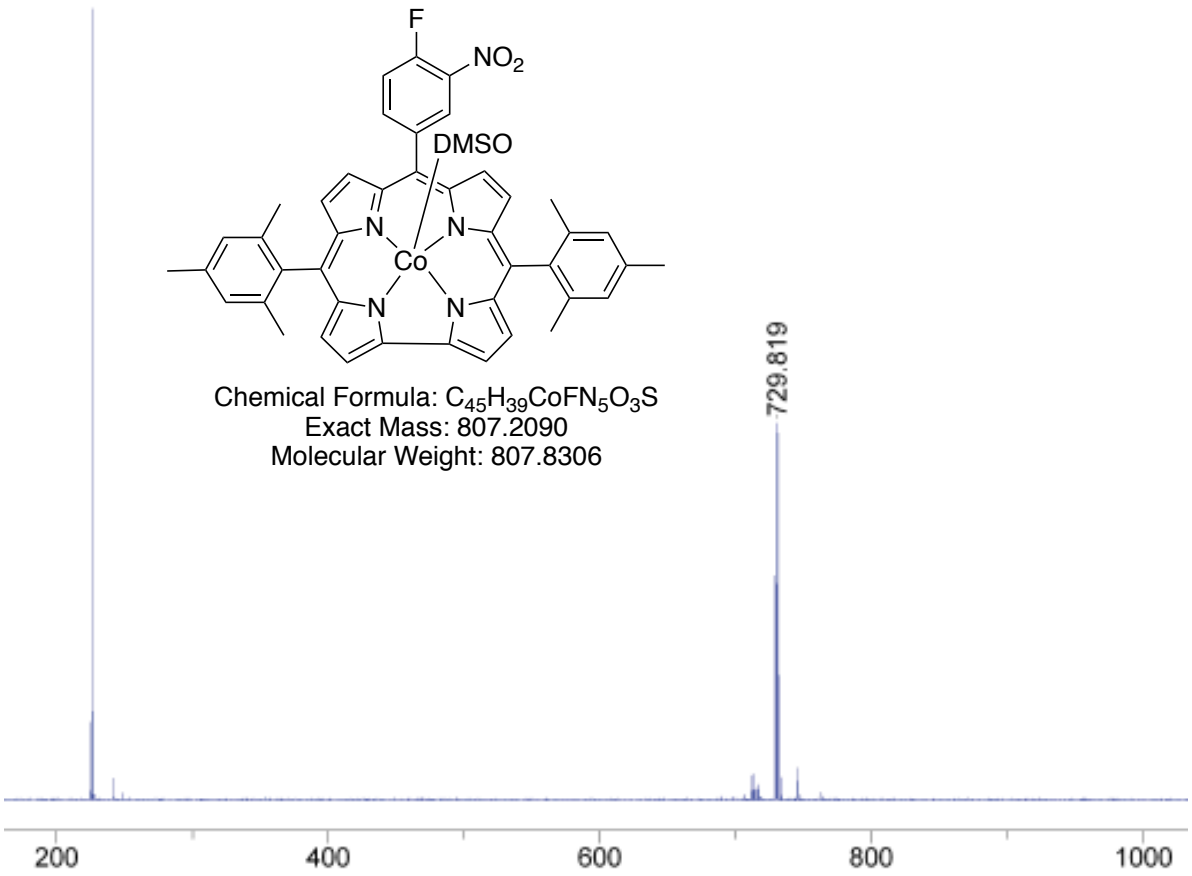
Figure S3. ^{1}H NMR spectrum of **3**





Chemical Formula: $C_{40}H_{28}CoN_7O_8S$
Exact Mass: 825.1052
Molecular Weight: 825.6982

Figure S4. ^{1}H NMR spectrum of **4**



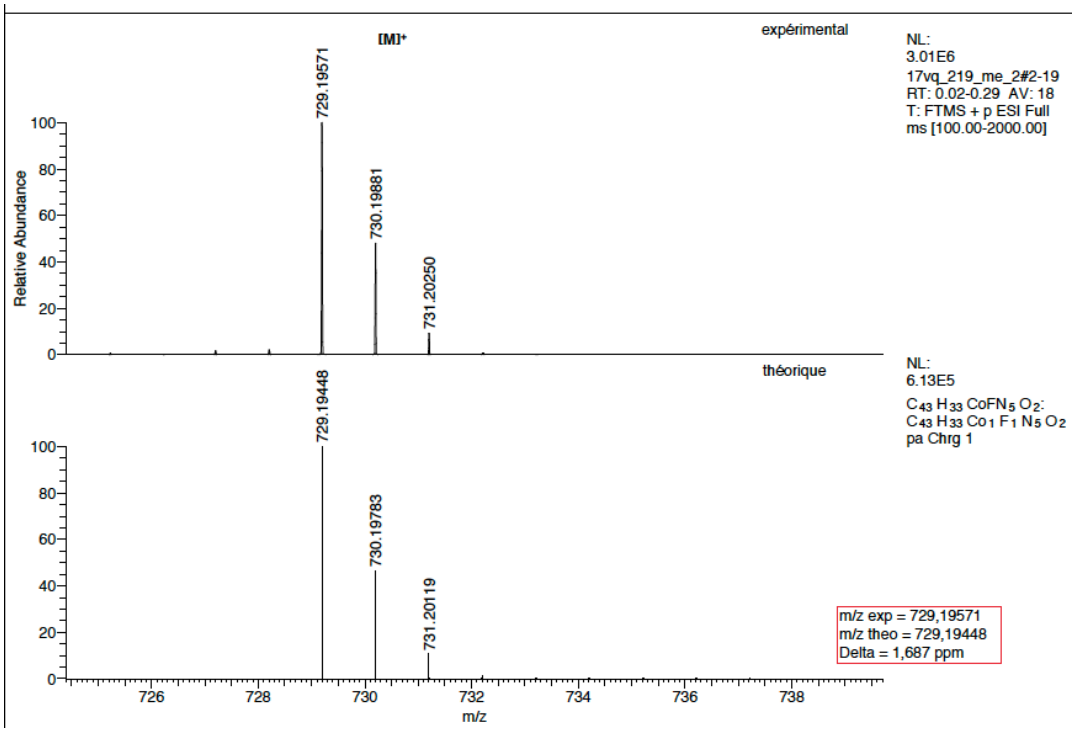
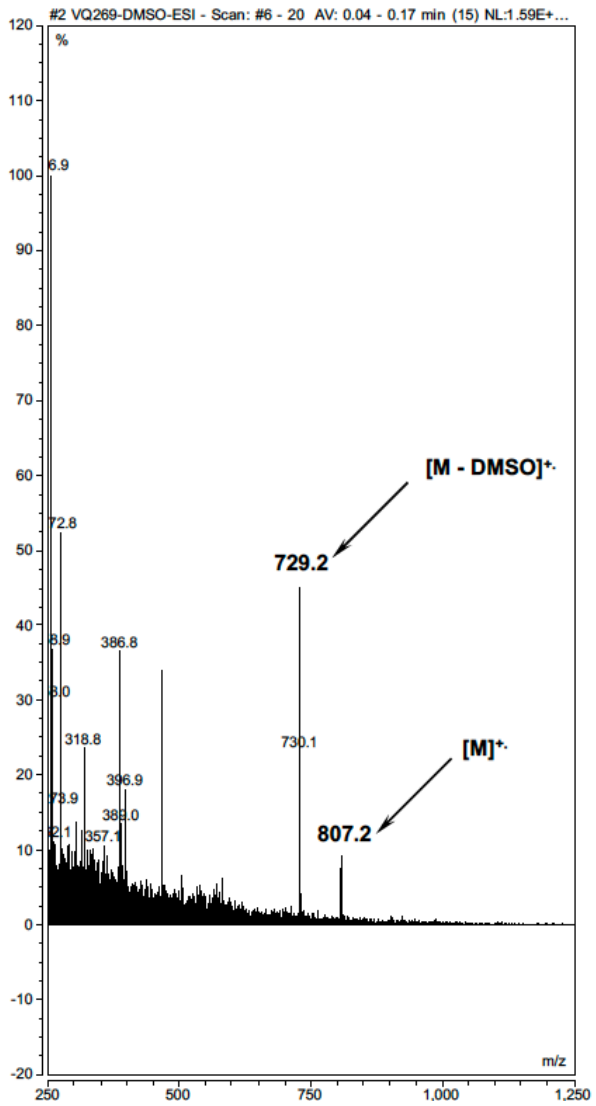
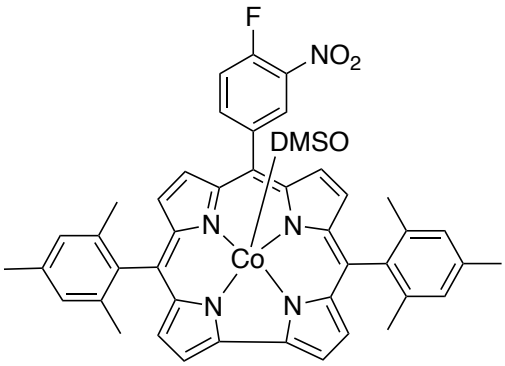


Figure S5. MS (MALDI/TOF) and HRMS (ESI) spectra of **1**





Chemical Formula: $C_{45}H_{39}CoFN_5O_3S$
Exact Mass: 807.2090
Molecular Weight: 807.8306

Figure S6. MS (ESI) spectrum of **1**

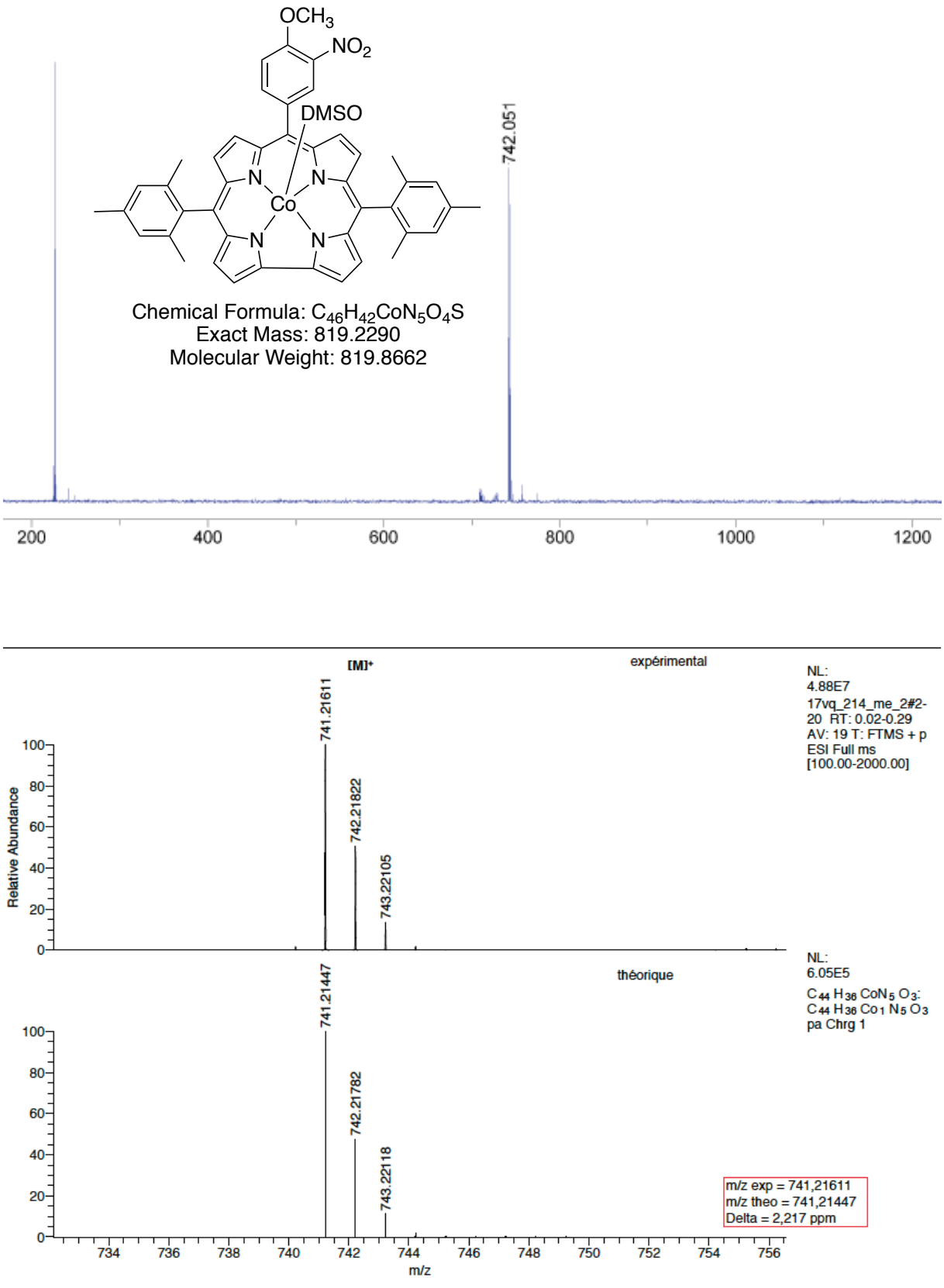
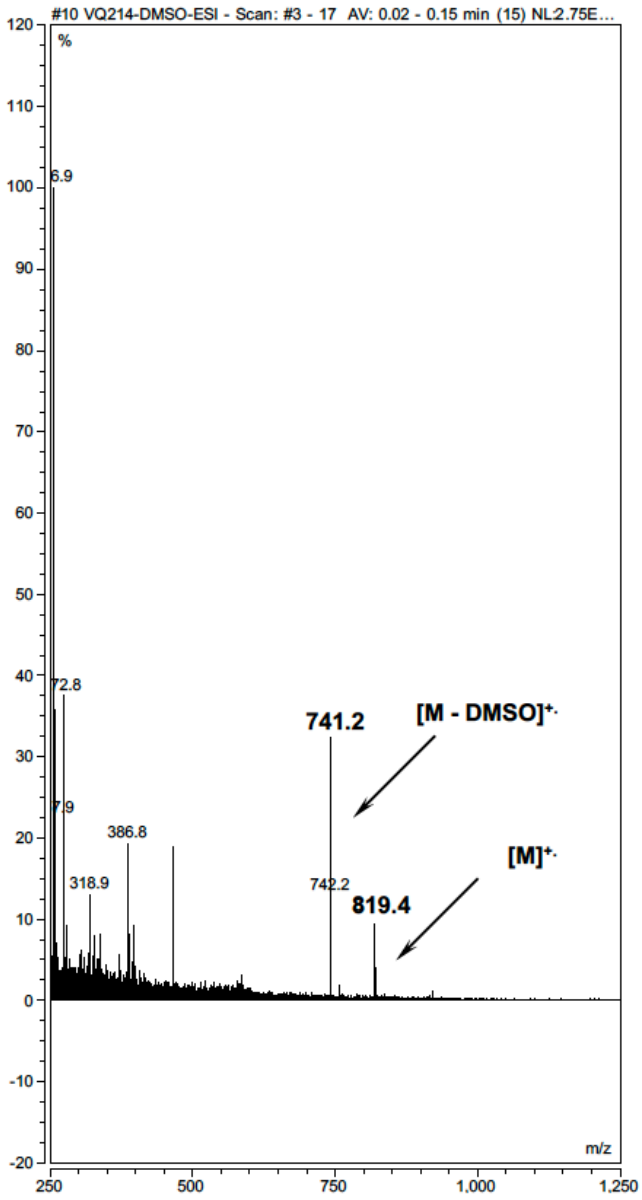
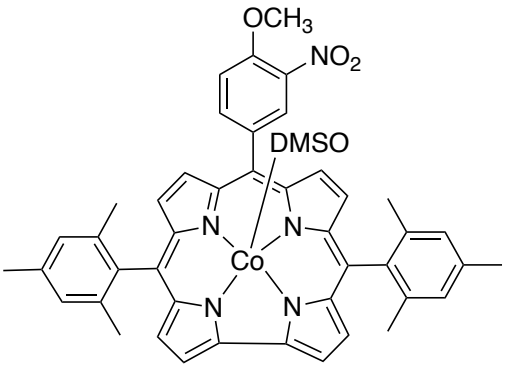


Figure S7. MS (MALDI/TOF) and HRMS (ESI) spectra of **2**





Chemical Formula: $C_{46}H_{42}CoN_5O_4S$
Exact Mass: 819.2290
Molecular Weight: 819.8662

Figure S8. MS (ESI) spectrum of **2**

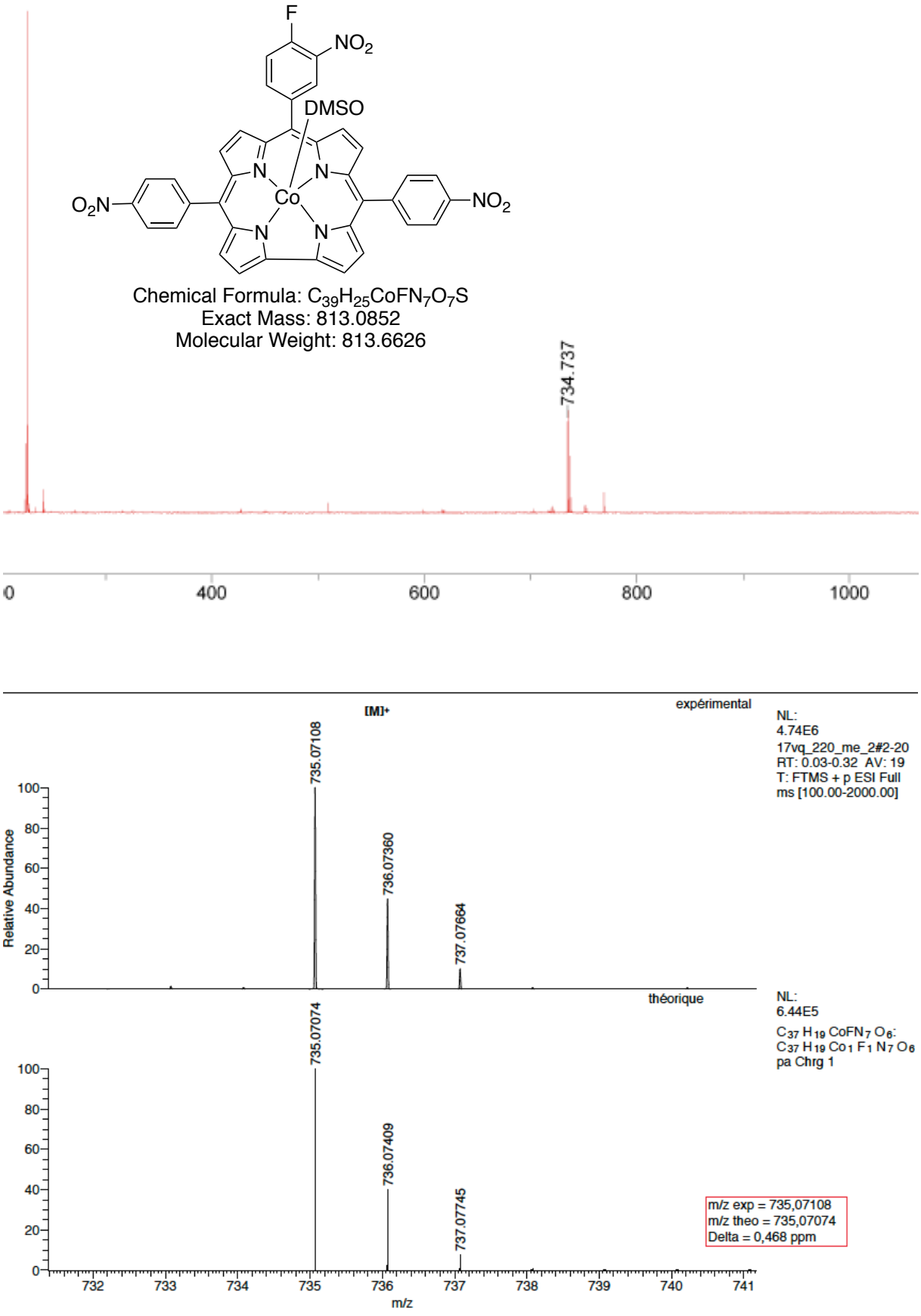
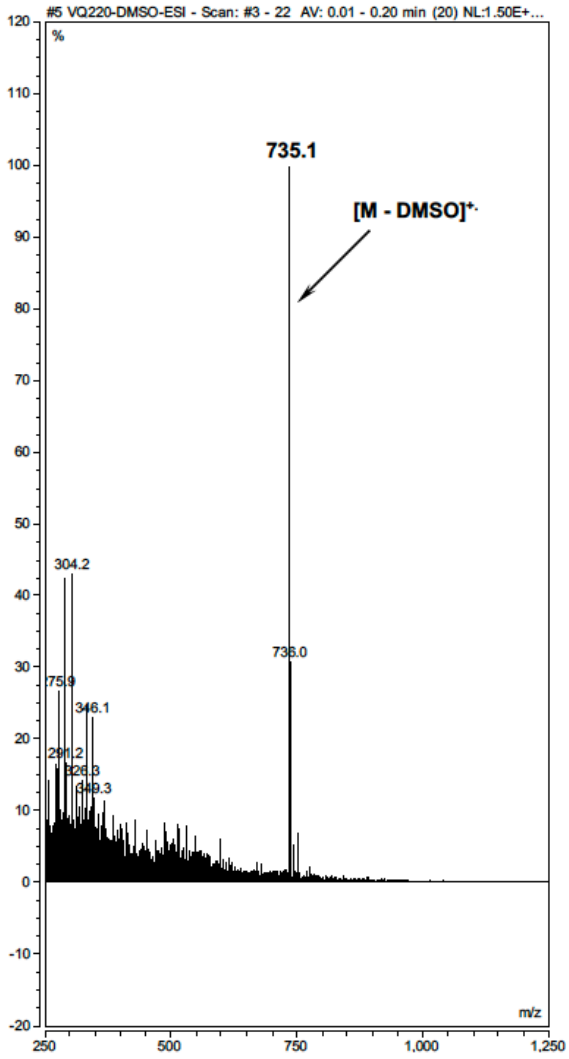
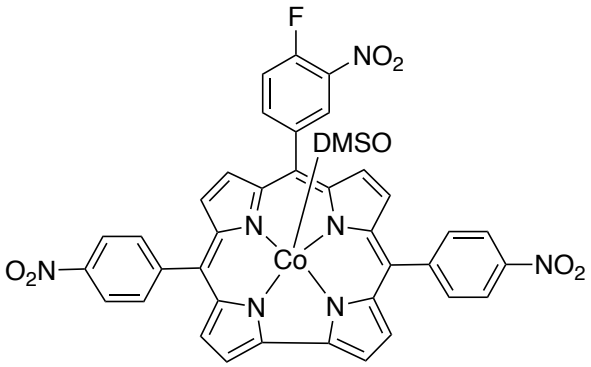


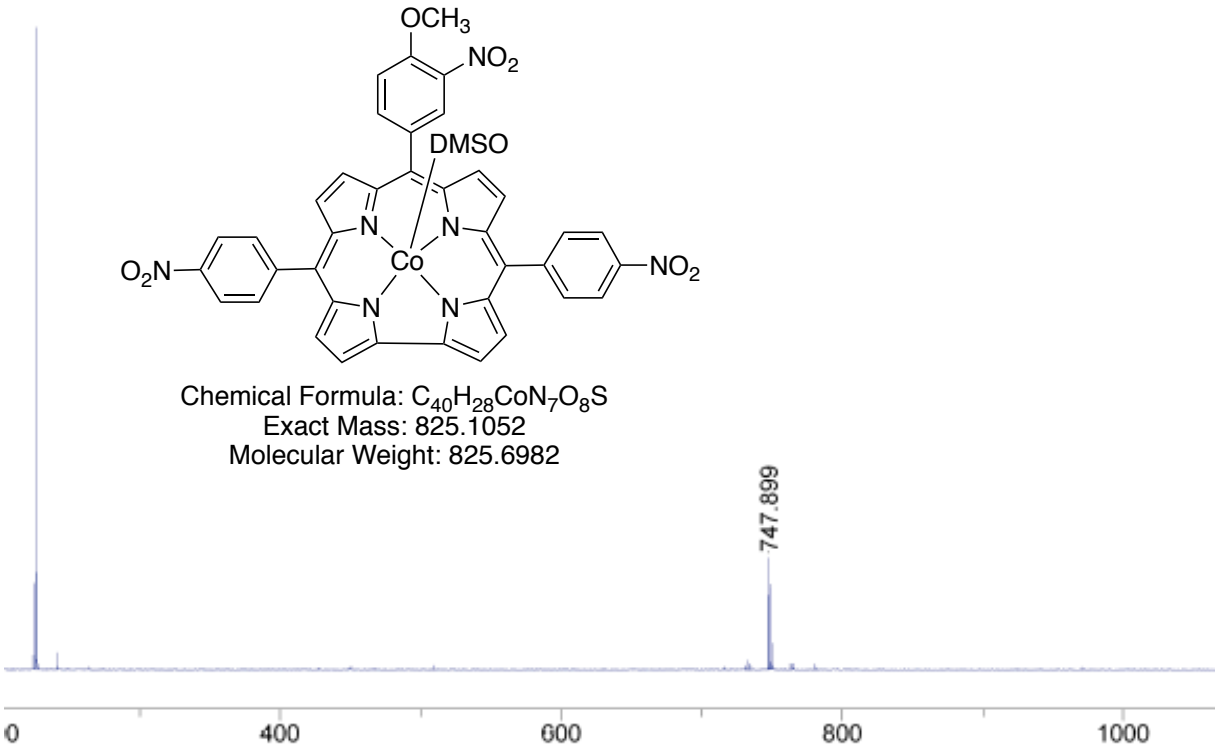
Figure S9. MS (MALDI/TOF) and HRMS (ESI) spectra of **3**





Chemical Formula: $C_{39}H_{25}CoFN_7O_7S$
Exact Mass: 813.0852
Molecular Weight: 813.6626

Figure S10. MS (ESI) spectrum of **3**



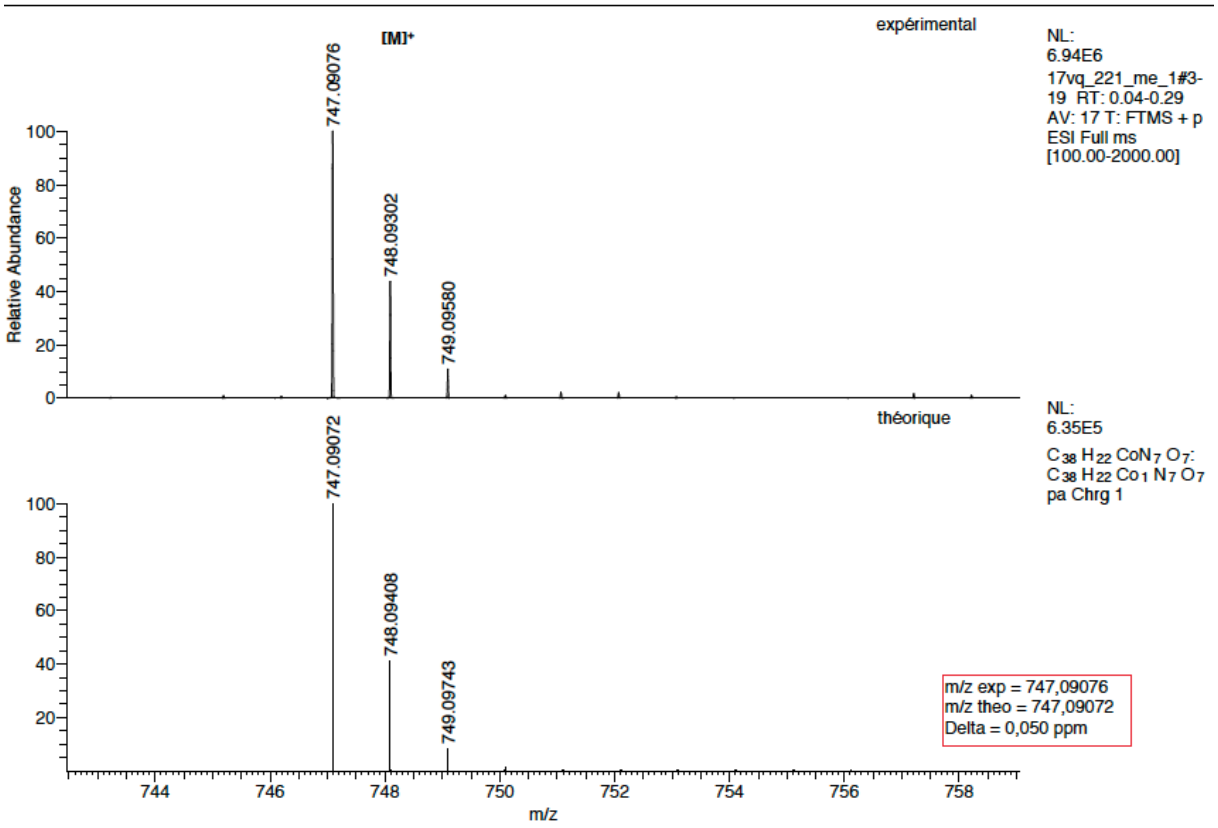
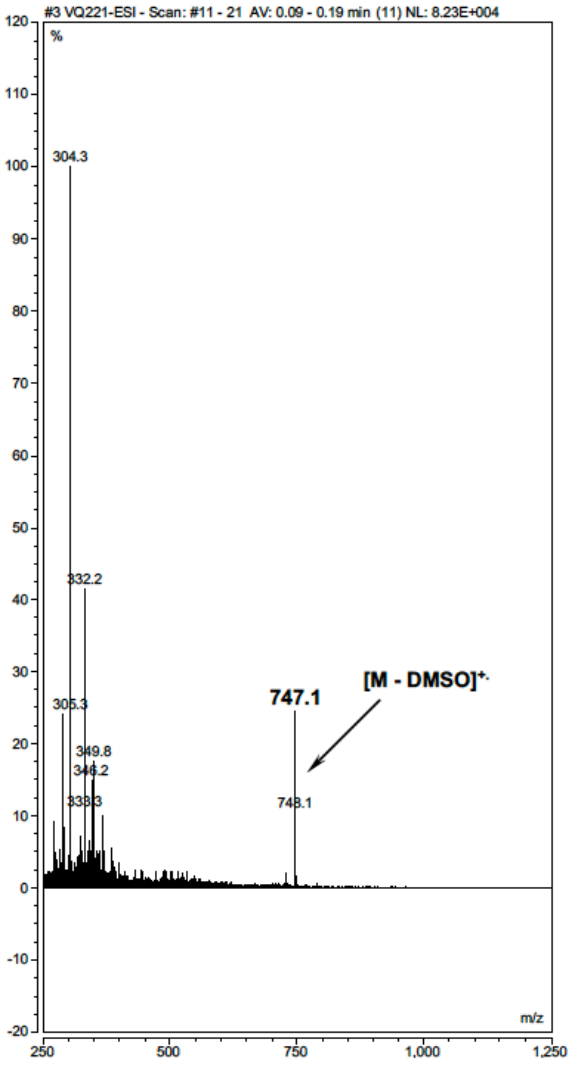
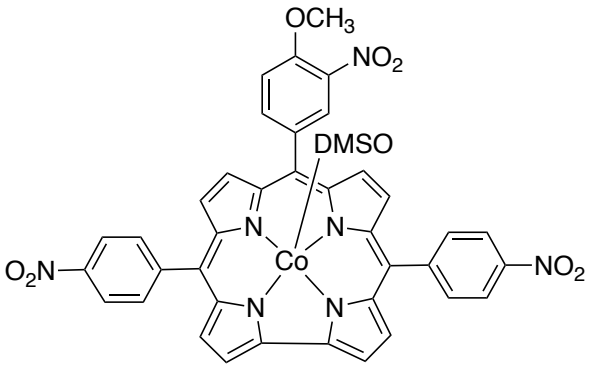


Figure S11. MS (MALDI/TOF) and HRMS (ESI) spectra of **4**





Chemical Formula: $C_{40}H_{28}CoN_7O_8S$
Exact Mass: 825.1052
Molecular Weight: 825.6982

Figure S12. MS (ESI) spectrum of **4**

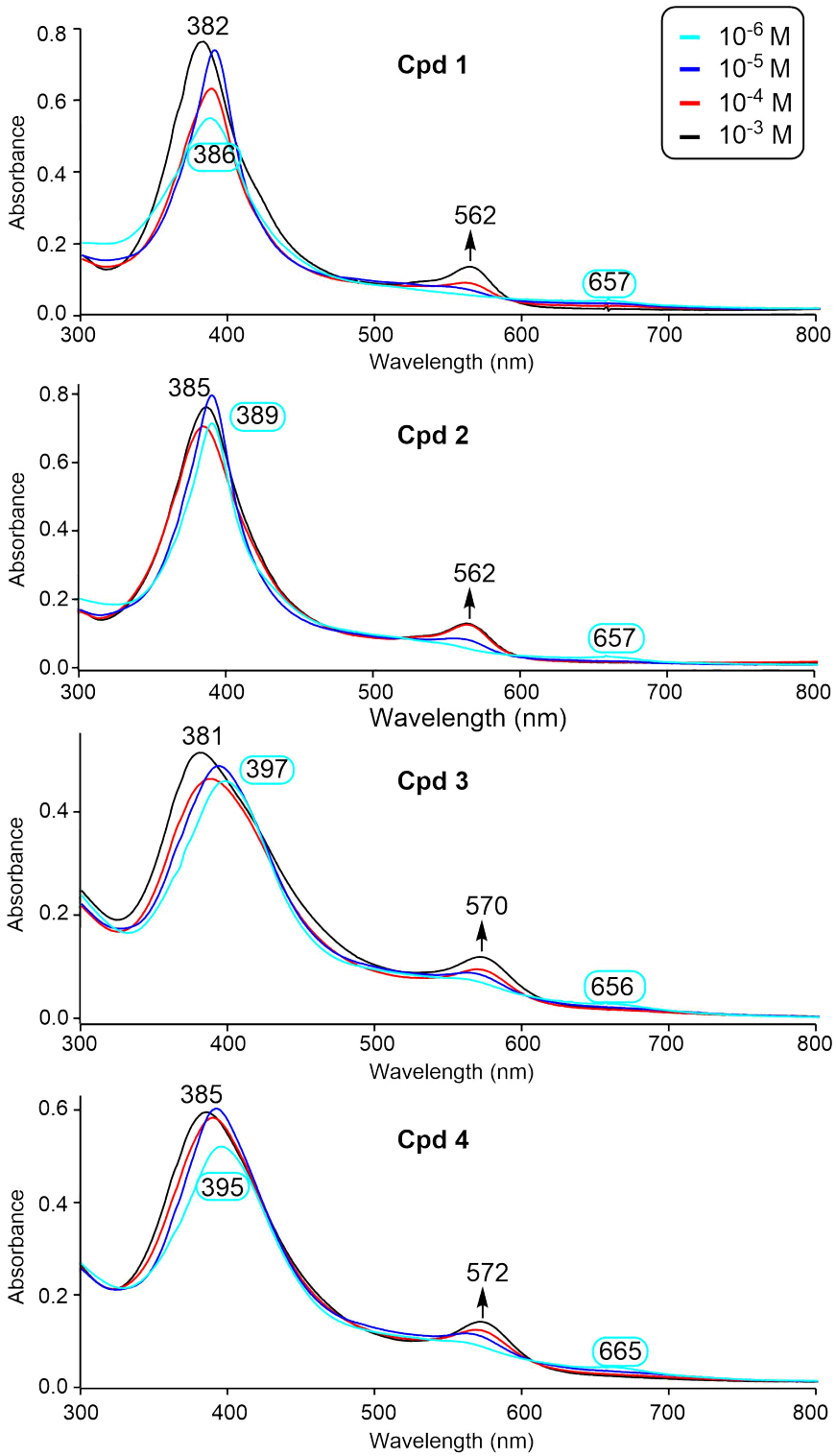


Figure S13. Changes in absorbance (A) of compounds **1-4** at concentrations ranging from 10^{-6} M to 10^{-3} M in CH_2Cl_2 while cell path length (b) times concentration (C) constant.

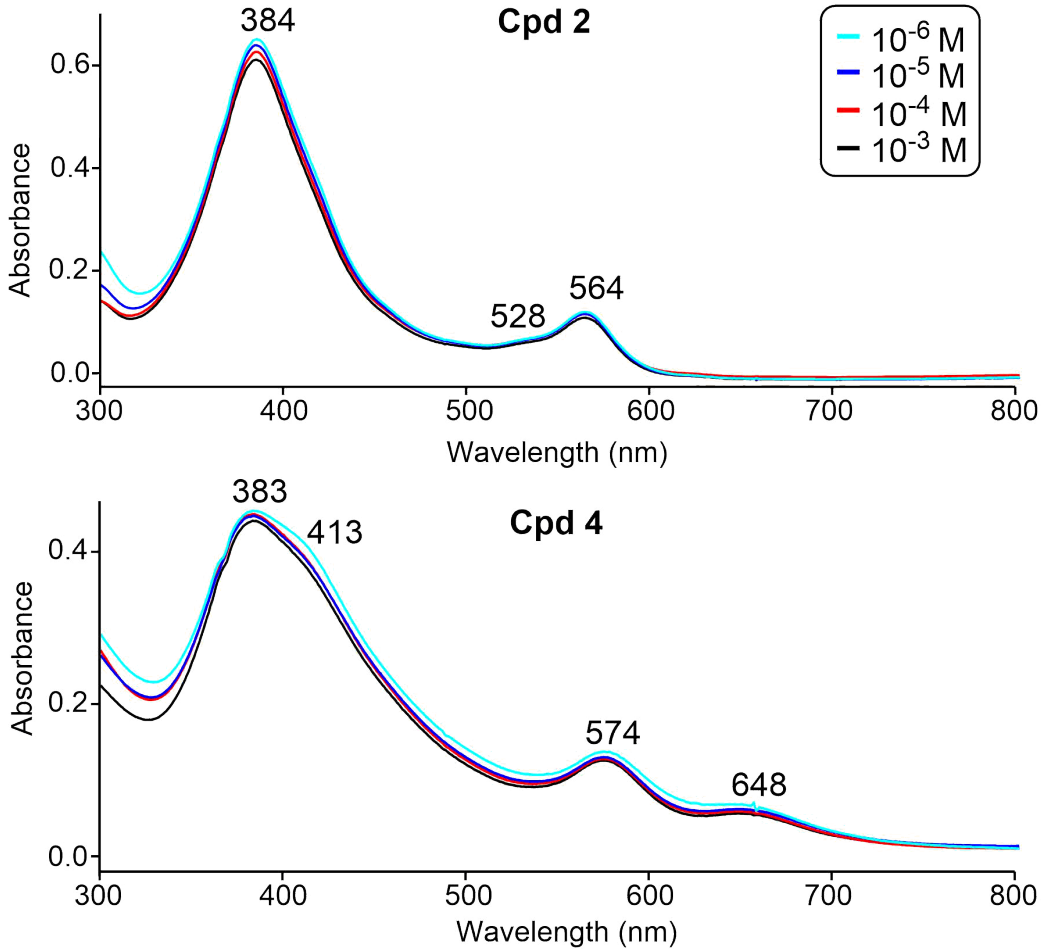


Figure S14. Changes in absorbance (A) of compounds **2** and **4** at concentrations ranging from 10^{-6} M to 10^{-3} M in DMSO while cell path length (b) times concentration (C) constant.

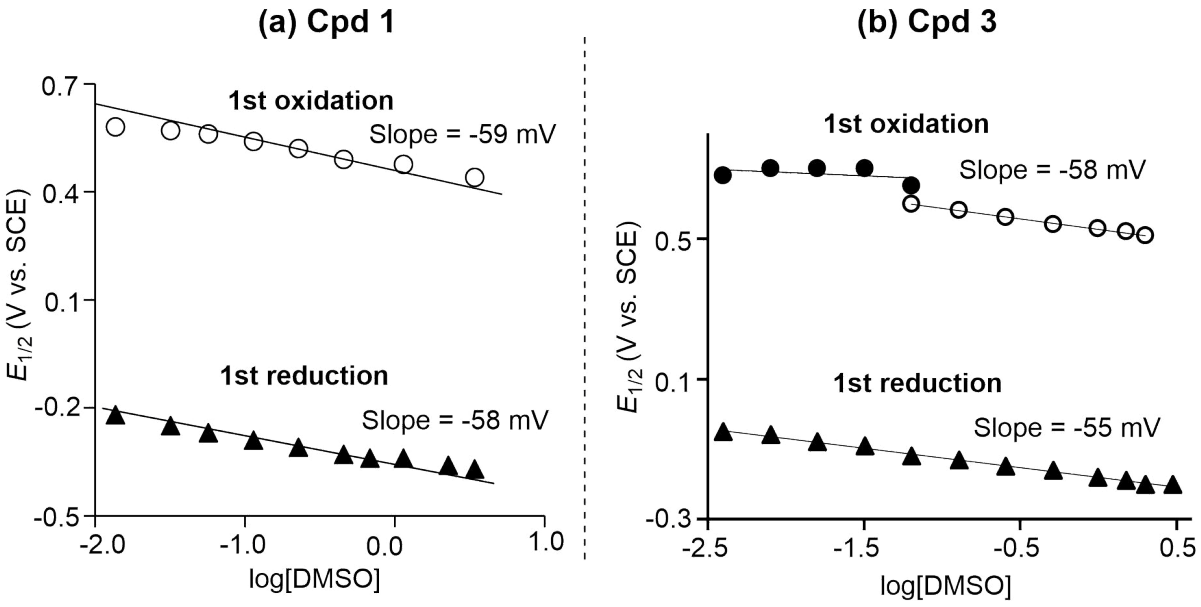


Figure S15. Plot of $E_{1/2}$ *vs.* log [DMSO] for the first oxidation and the first reduction of (a) compound **1** and (b) compound **3** in CH_2Cl_2.