

# Electrochemistry of Tetrathiafulvalene Ligands Assembled on the Surface of Gold Nanoparticles

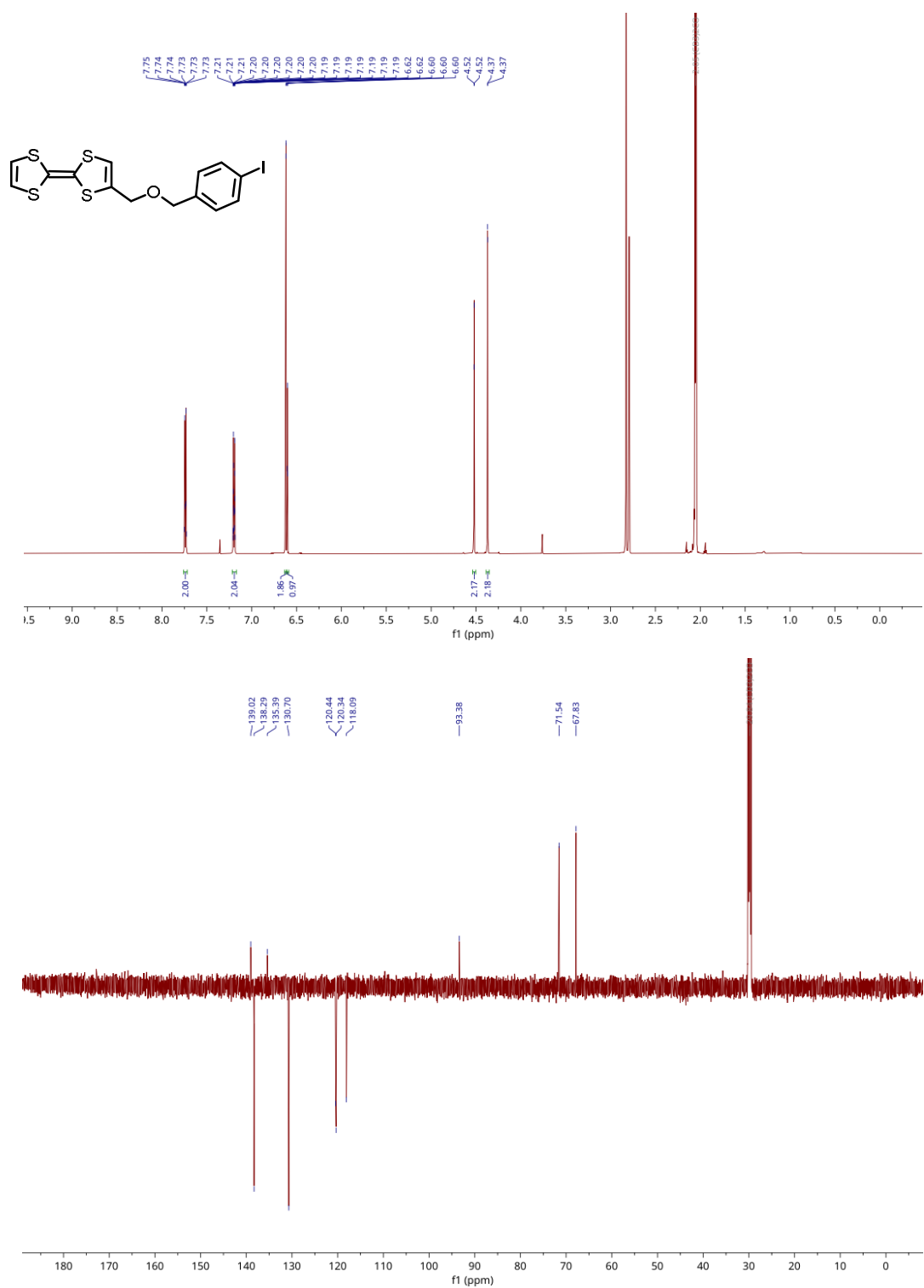
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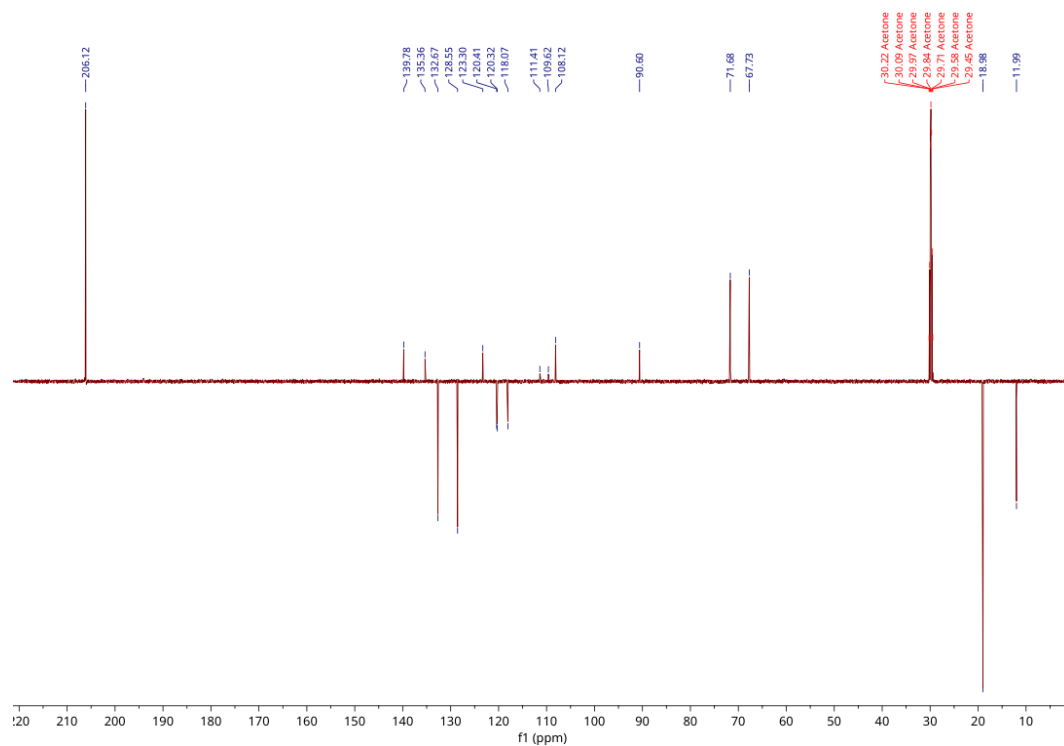
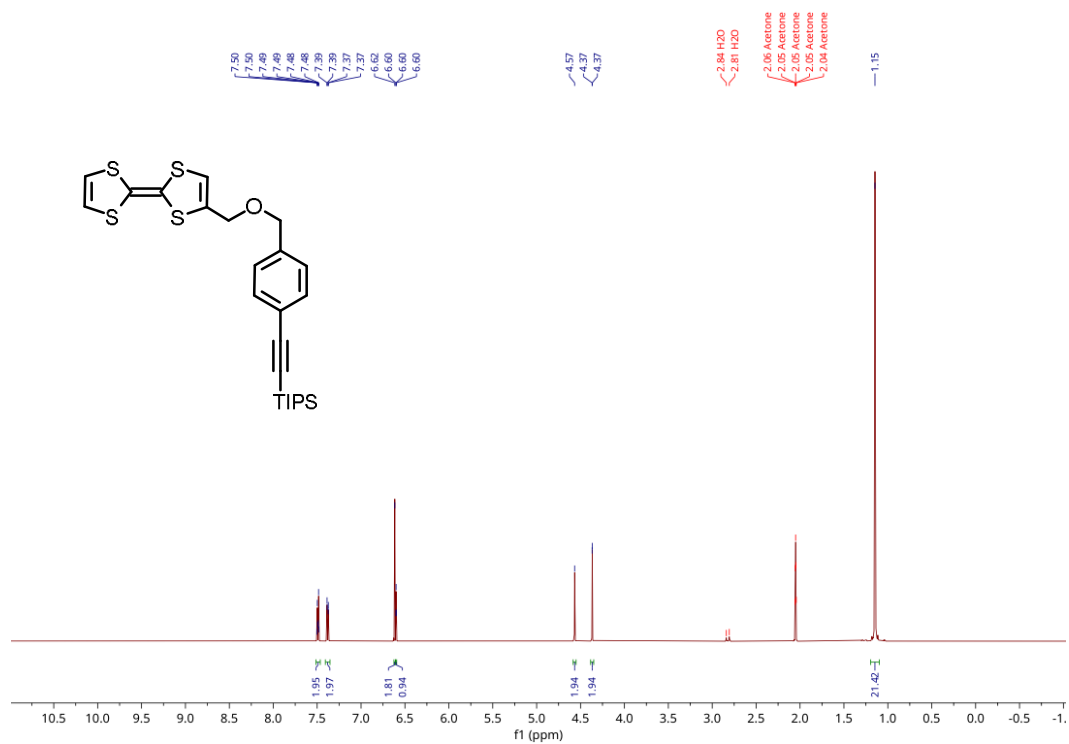
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$^1\text{H}$  and  $^{13}\text{C}$  NMR spectra of compounds **3**, **4**, **5** and **1**

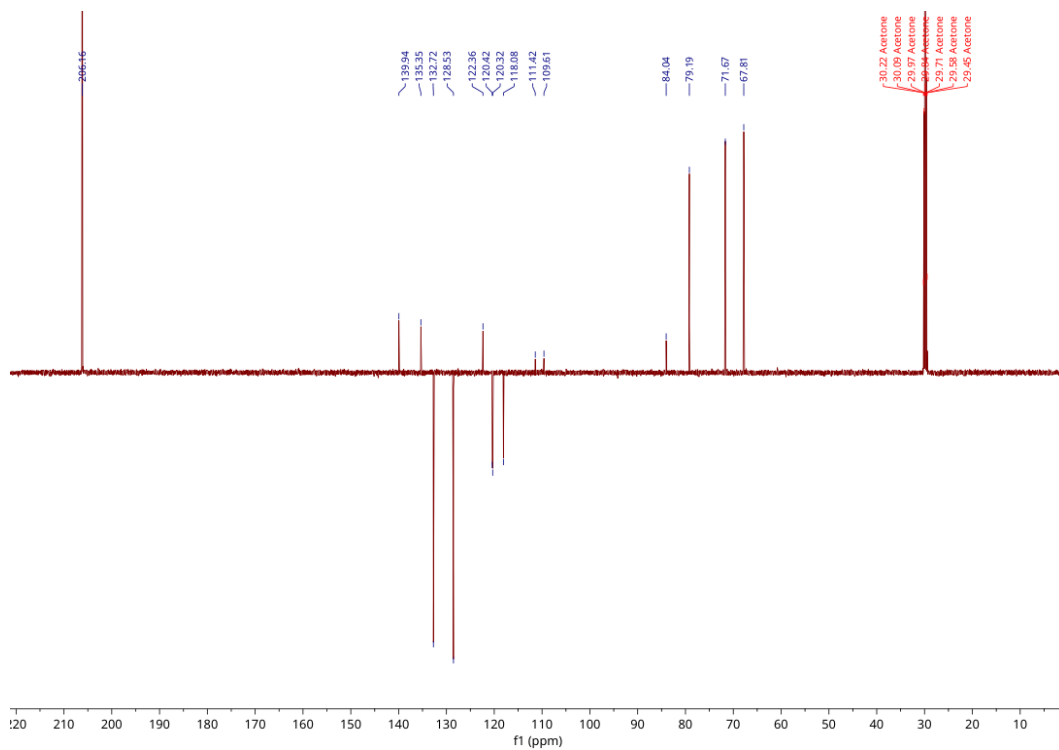
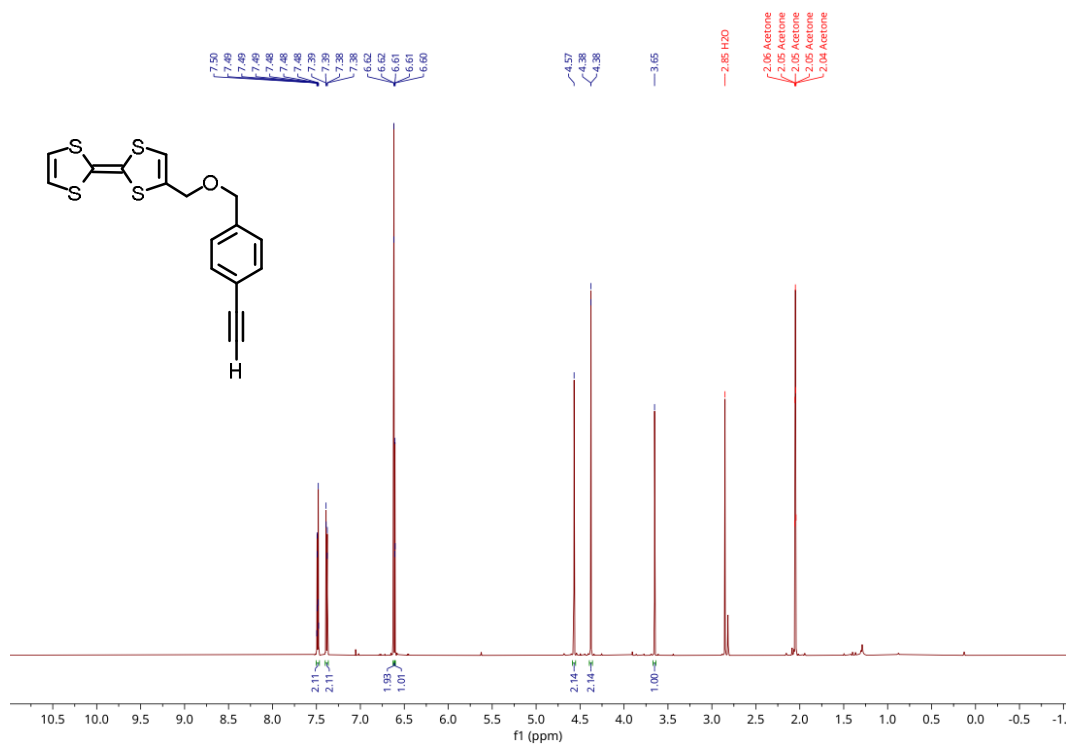
### Compound **3**



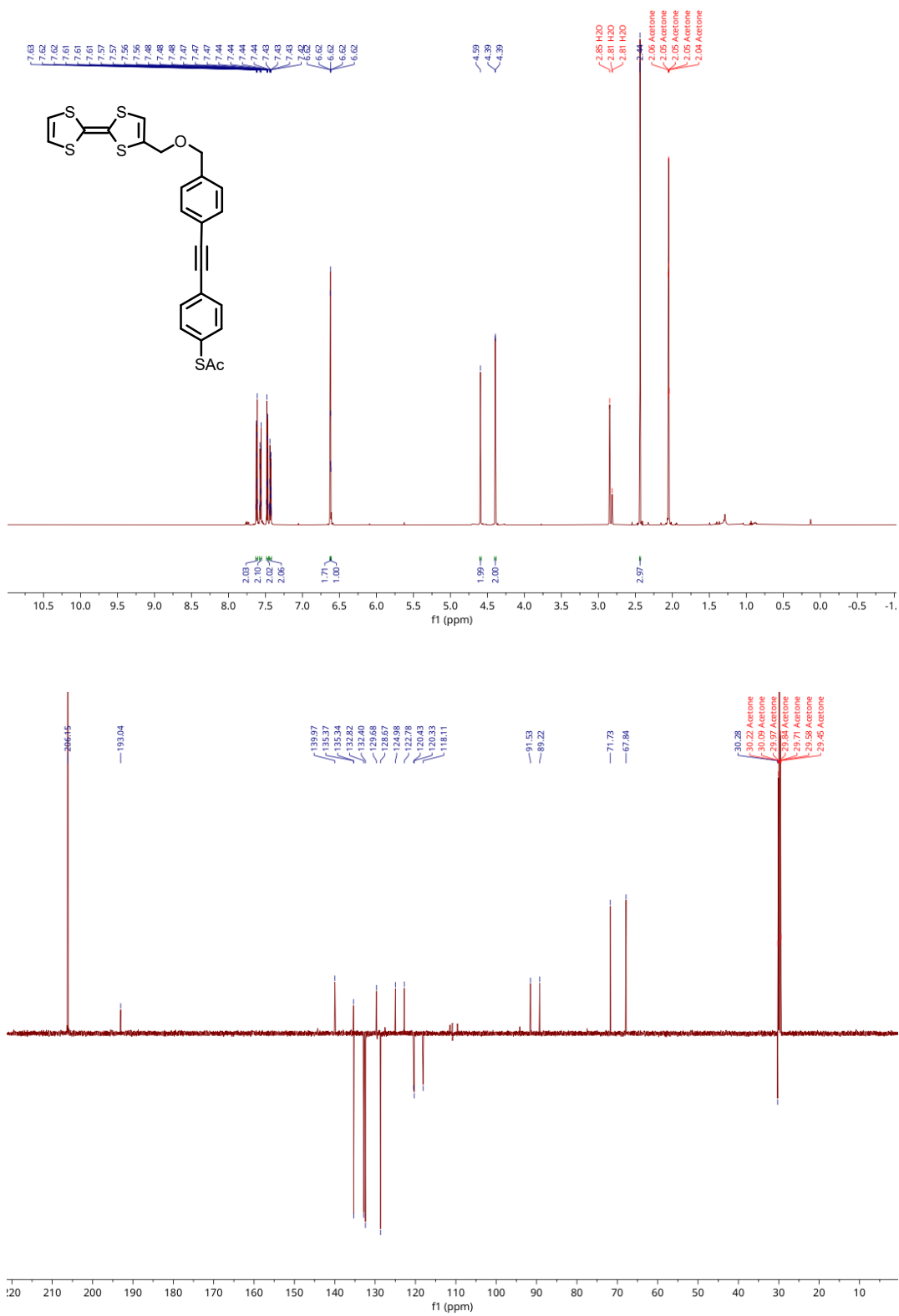
# Compound 4



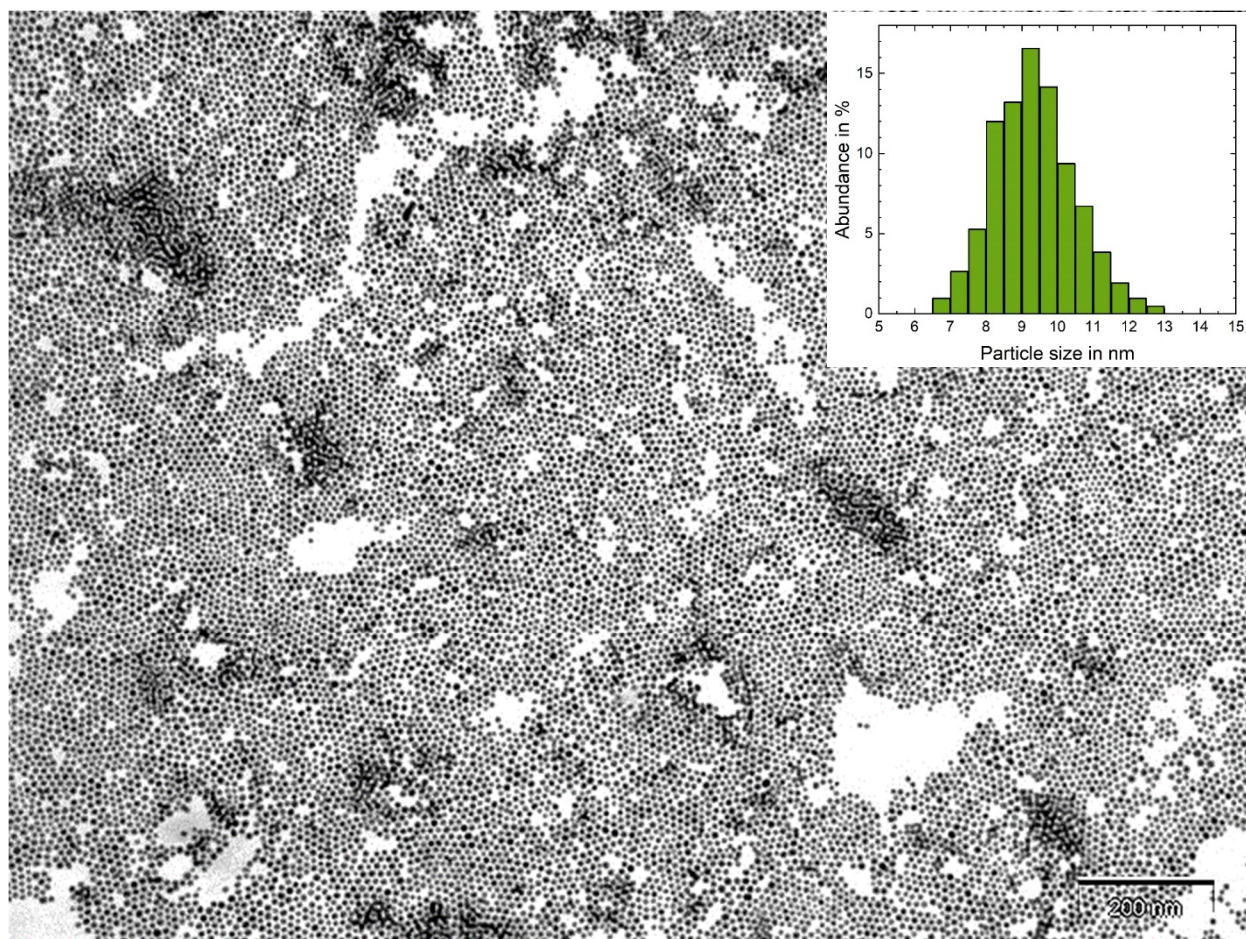
# Compound 5



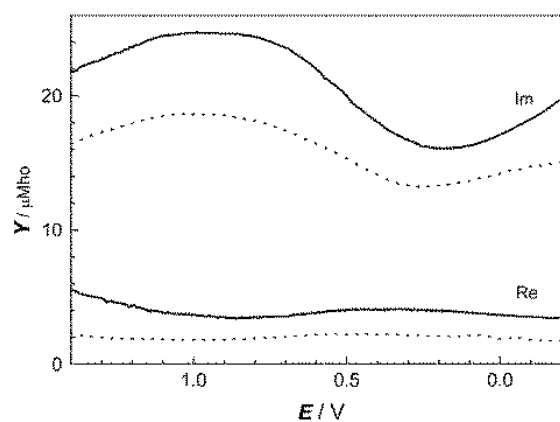
### Compound 1



**Figure S1** Identification compounds by spectroscopy.



**Figure S2:** TEM image (magnification 75 000x) with size-distribution histogram (inset) of  $C_{12}H_{23}S@AuNP$ .



**Figure S3:** The phase-sensitive AC voltammogram of  $C_{12}H_{23}S@AuNP$  (1.6 Hz, dichloroethane, TBAPF<sub>6</sub>) showing the absence of any faradaic process.