Electronic Supplementary Information for Dalton Transactions
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Supporting Information

For

A Thioether-Rich Crown-Based Highly Selective Fluorescent Sensor for Hg^{2+} and Ag^{+} in Aqueous Solution

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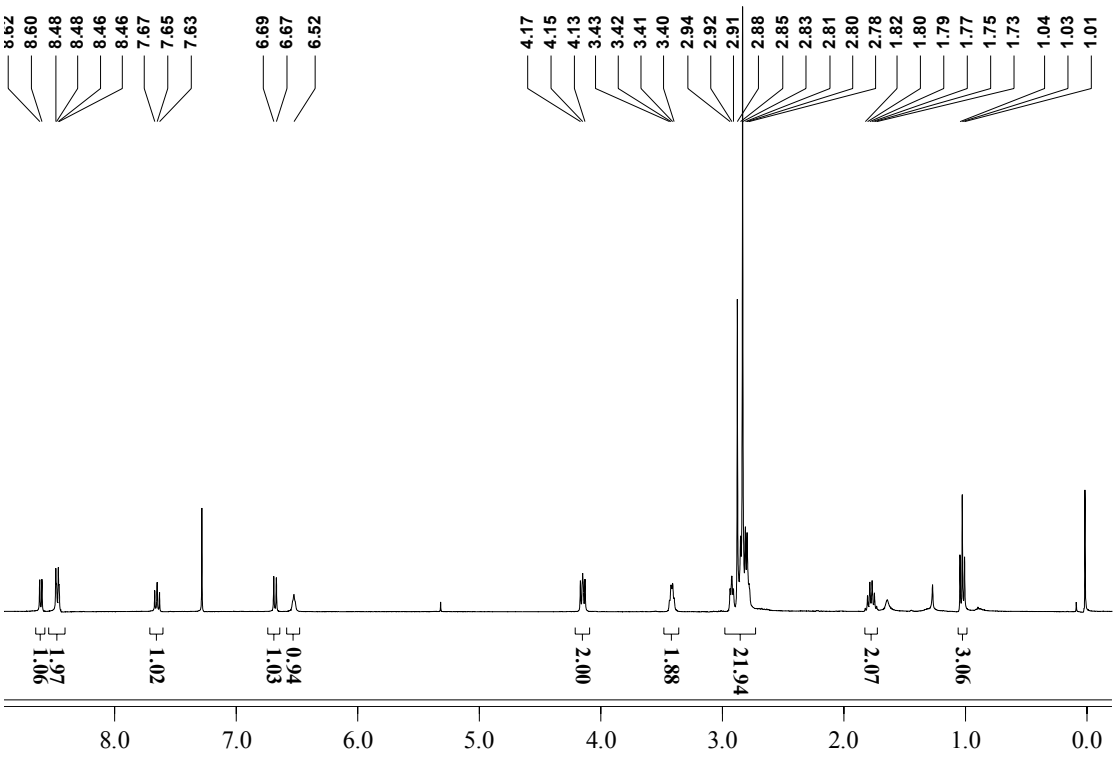
1. The characterization data of sensor 1

^{1}H-NMR spectrum of sensor **1**



^{13}C NMR spectrum of sensor **1**

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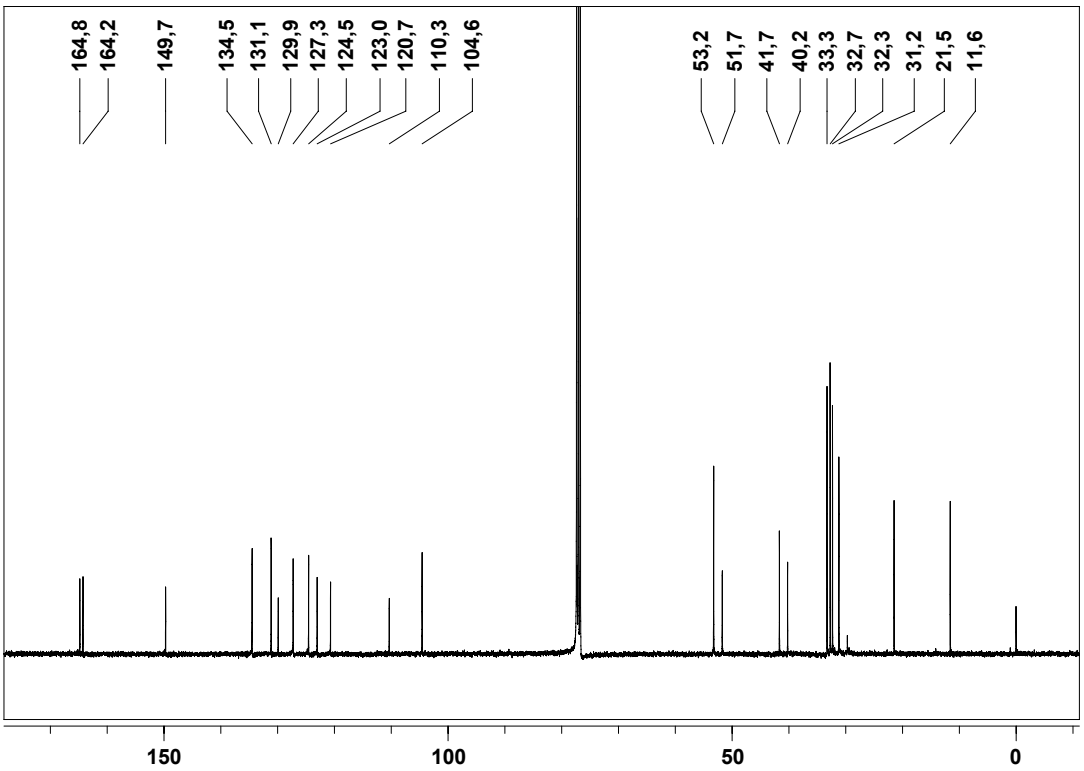
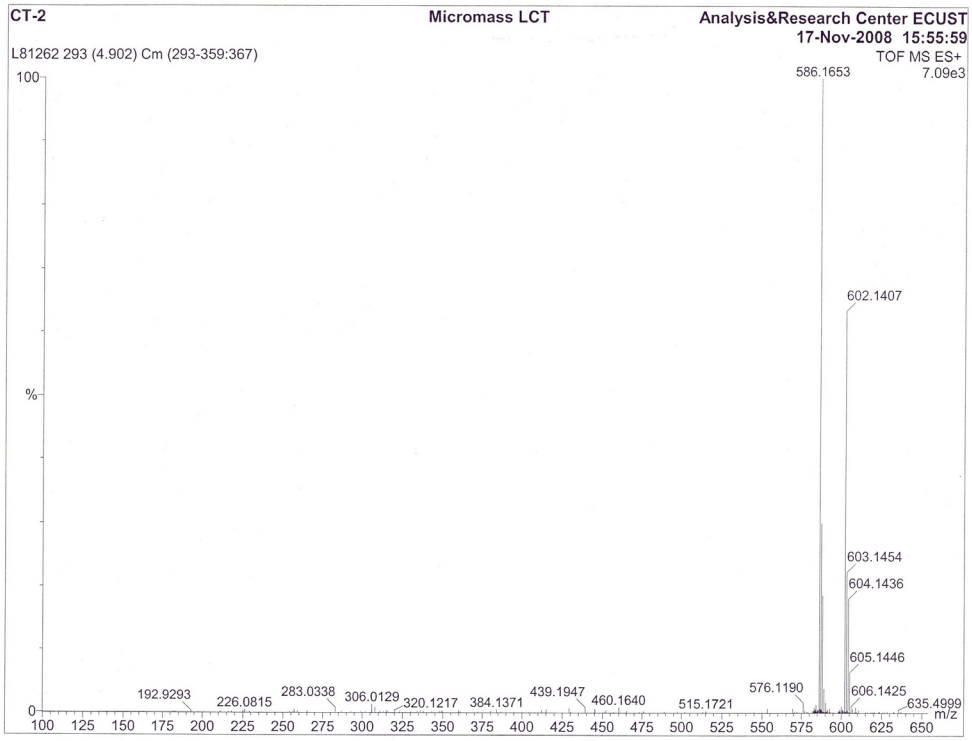


HRMS spectrum of sensor **1**



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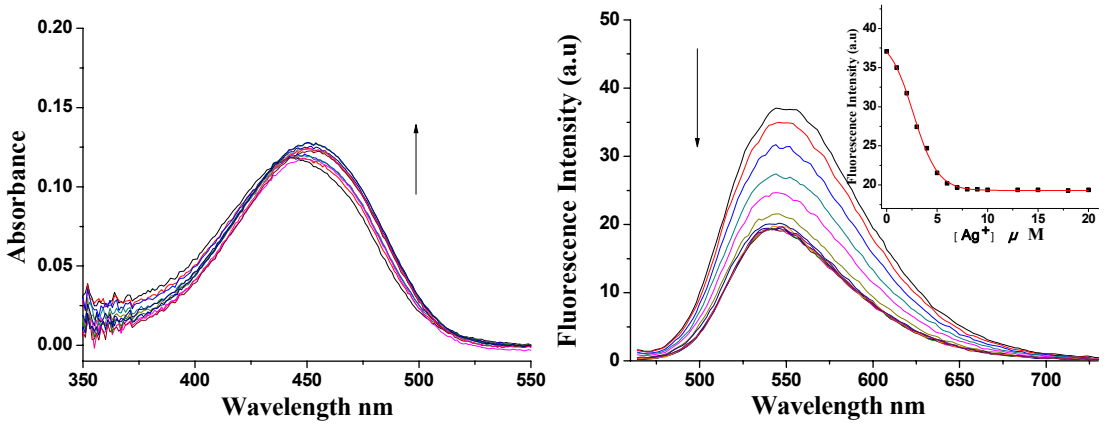
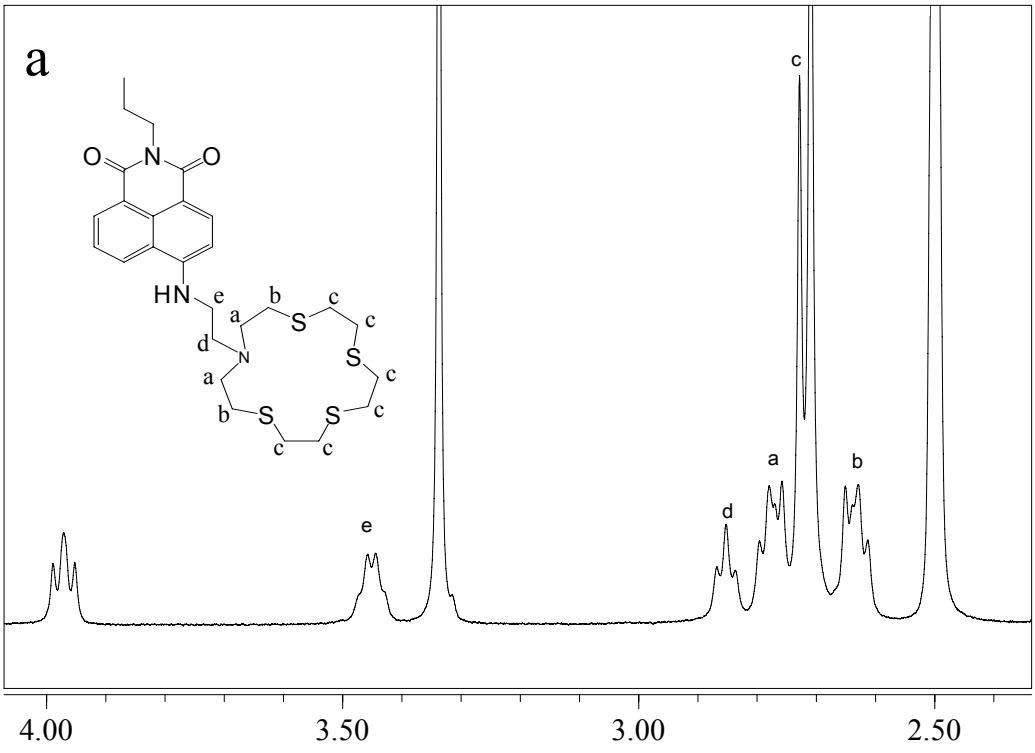
2. Absorption and Emission Spectra of 1 *vs.* Ag^+



(a) (b)

Fig. S1 (a) UV spectra of **1** upon addition of Ag^+. (d) Fluorescence spectra of compound **1** upon addition of Ag^+. Condition: **1** (10 μM) in 0.01 M Tris-HCl solution (ethanol:water = 20:80, v/v, pH 7.14)

3. ^{1}H-NMR studies



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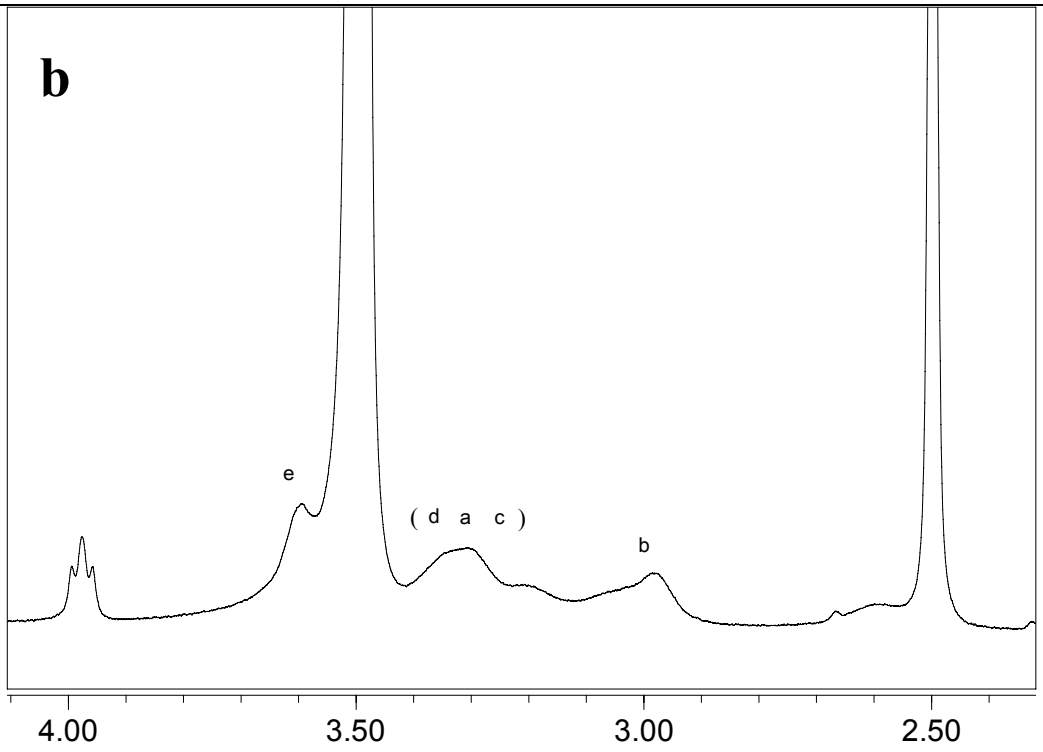

Fig. S2 Partial ^{1}H-NMR spectra of **1** (400 MHz, in DMSO-d_6) before (a) and after (b) the addition of 10 equiv of $Hg(ClO_4)_2$