ESI for:

Metal-directed assembly of chiral bis-Zn(II) Schiff base structures

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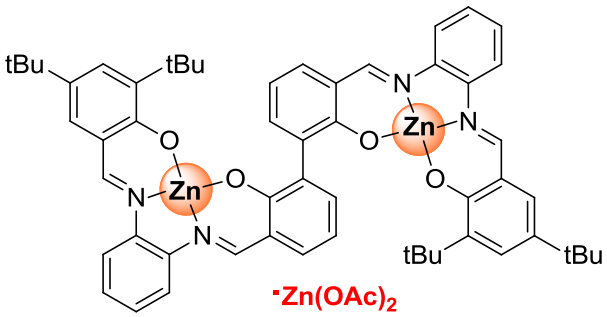
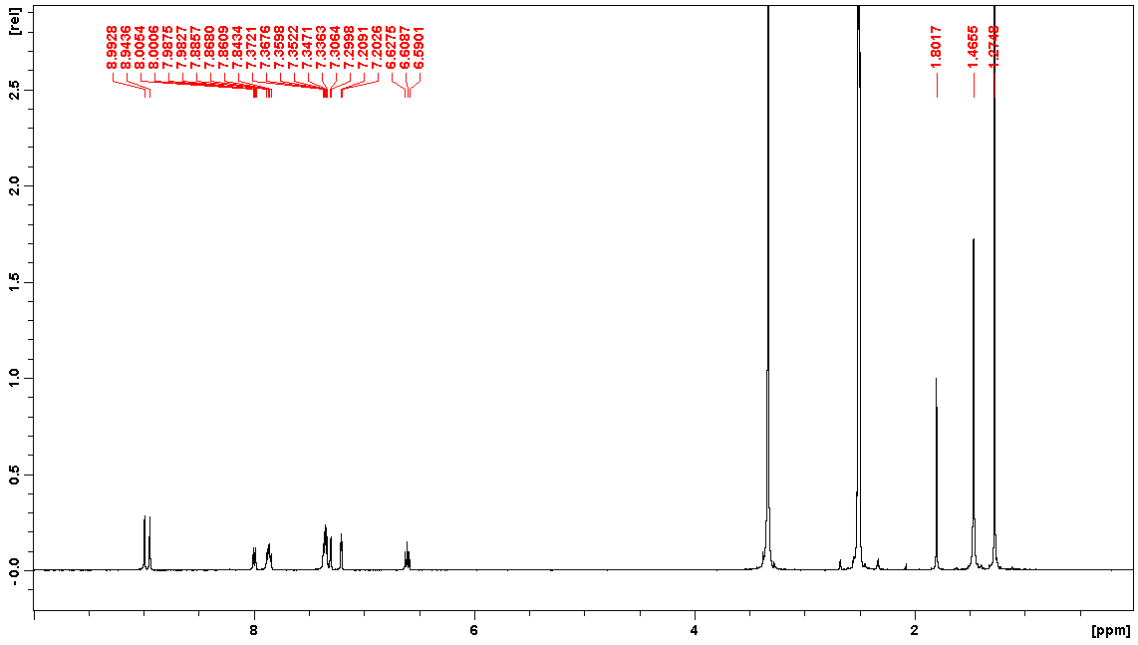
Contents:

Copies of NMR and MS spectra for complex **1**:

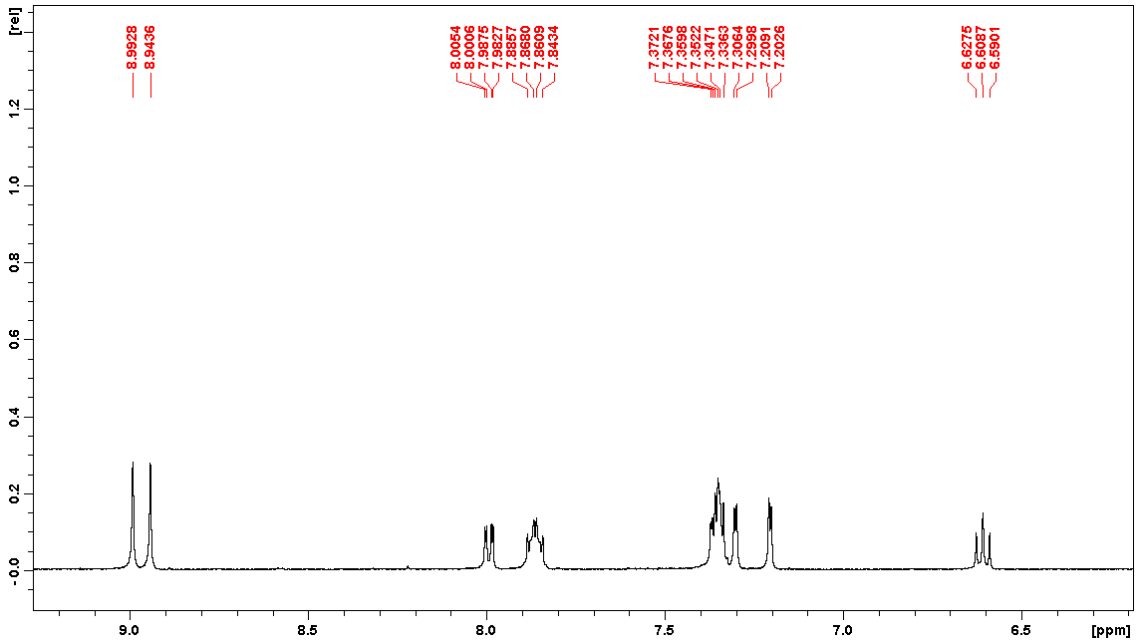


1

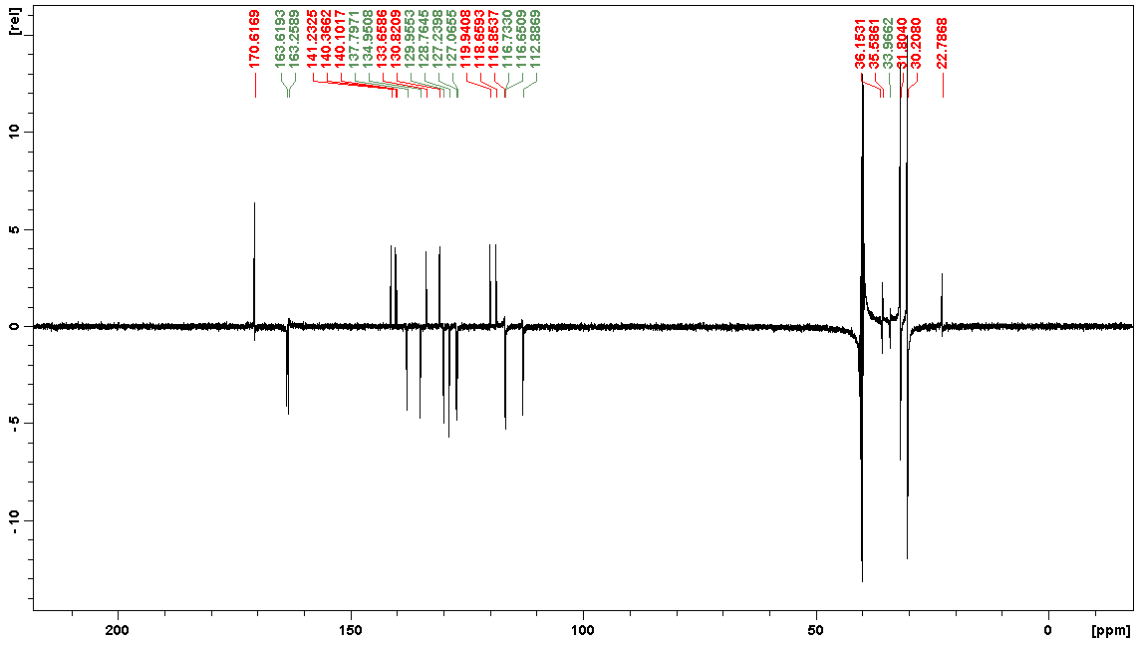
^{1}H NMR in DMSO-d_6:



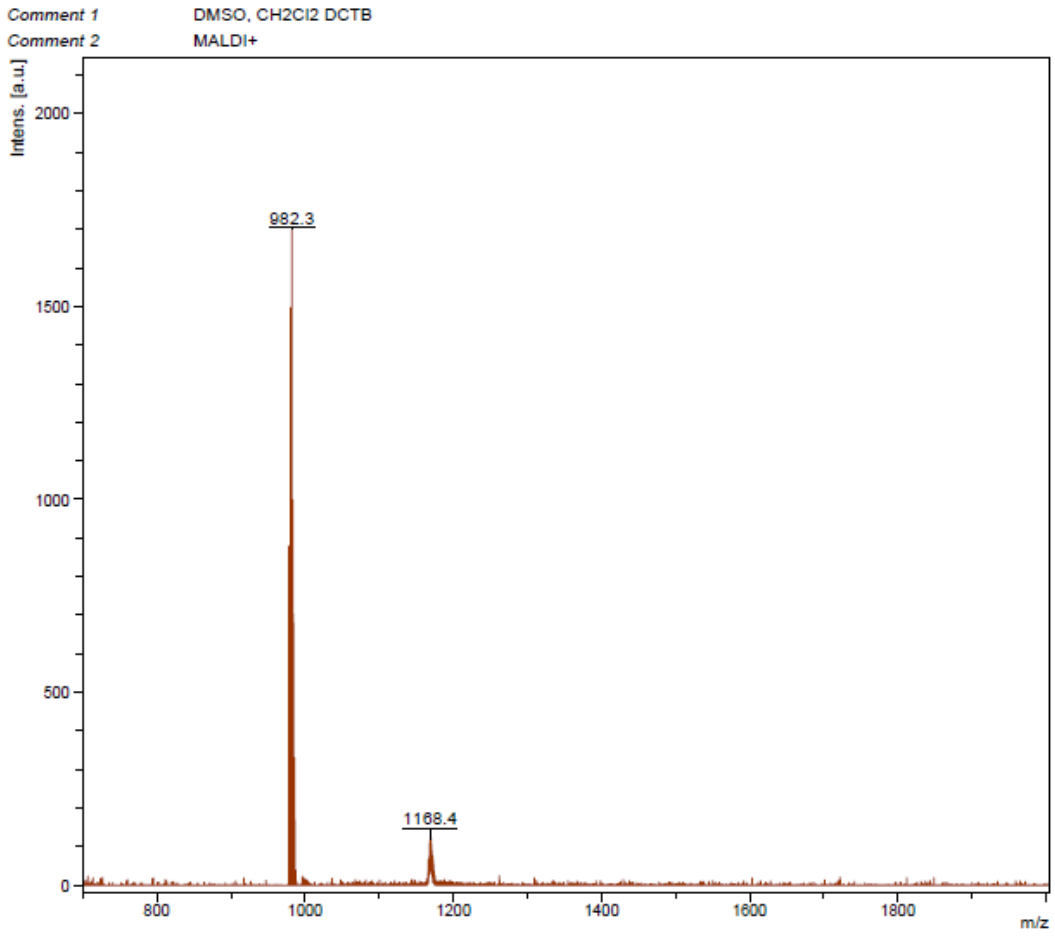
Extension of the aromatic region (^{1}H NMR for **1**, DMSO-d_6):



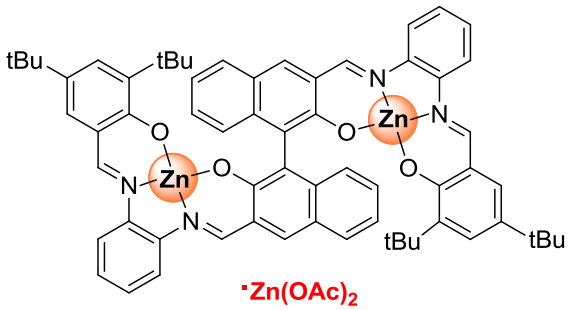
$^{13}C\{^{1}H\}$ NMR (DEPT-Q) in DMSO-d_6:



MS spectrum recorded for **1** (MALDI+, dctb):

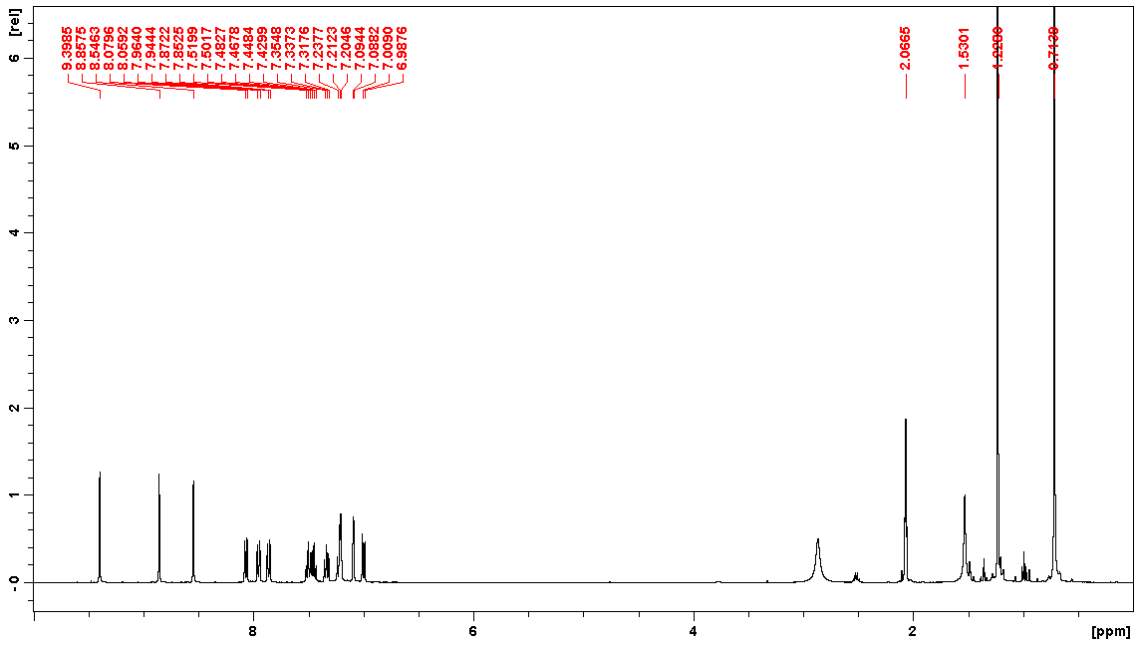


Copies of NMR and MS spectra for complex **2**:

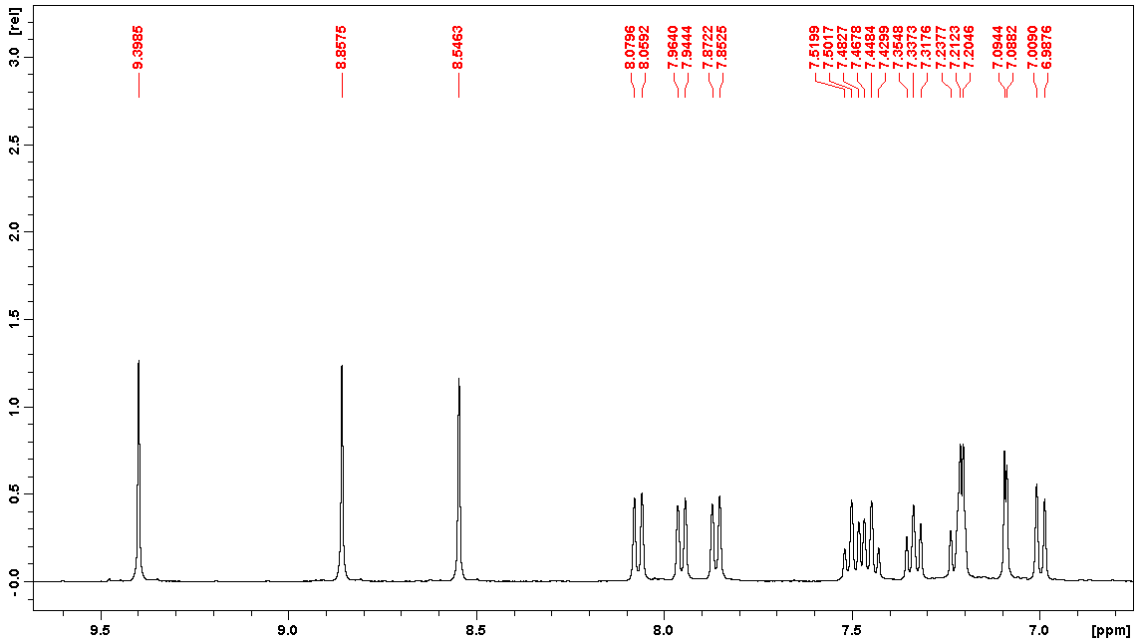


2

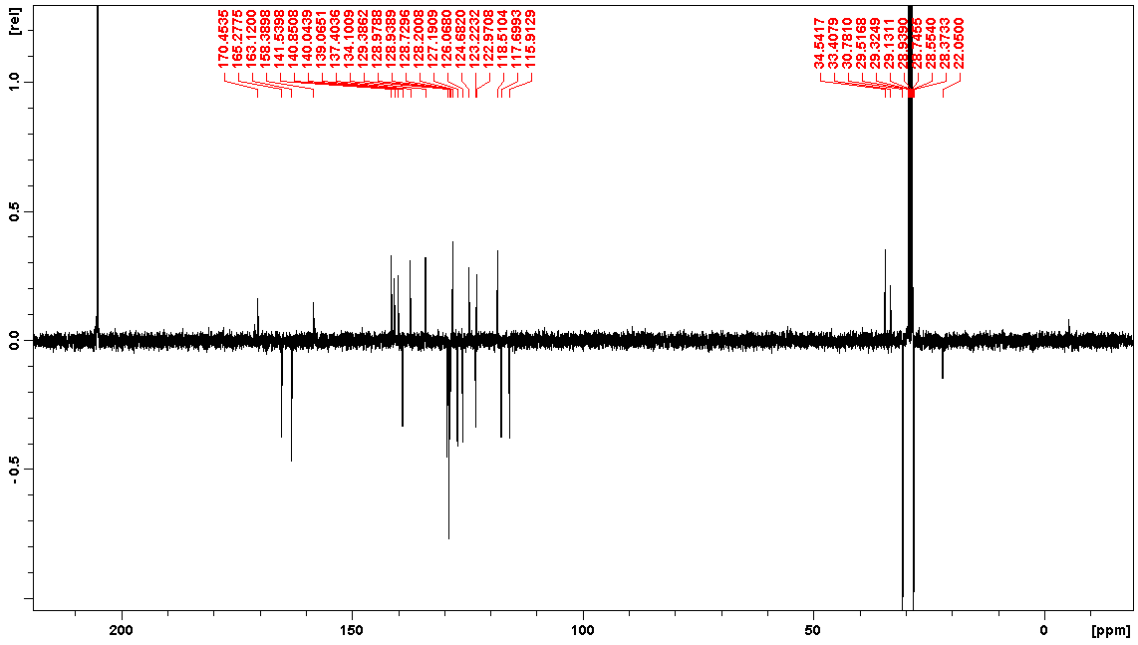
^{1}H NMR in Acetone-d_6:



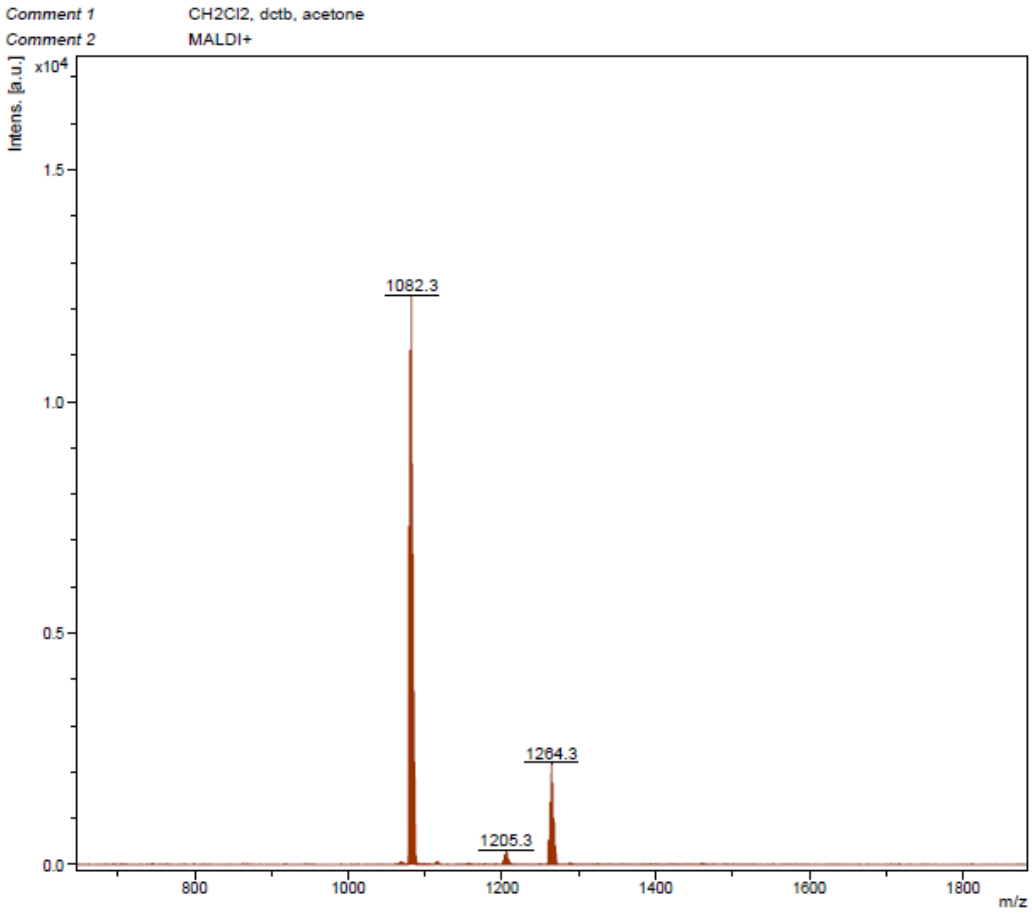
Extension of the aromatic region (^{1}H NMR for **2**, Acetone-d_6):



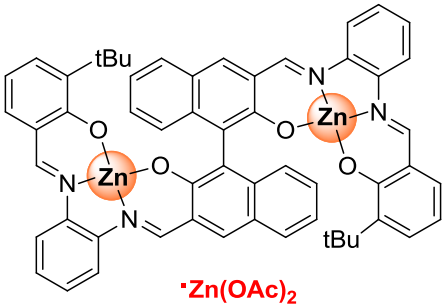
^{13}C{^{1}H} NMR (DEPT-Q) in Acetone-d_6:



MS spectrum recorded for **2** (MALDI+, dctb):

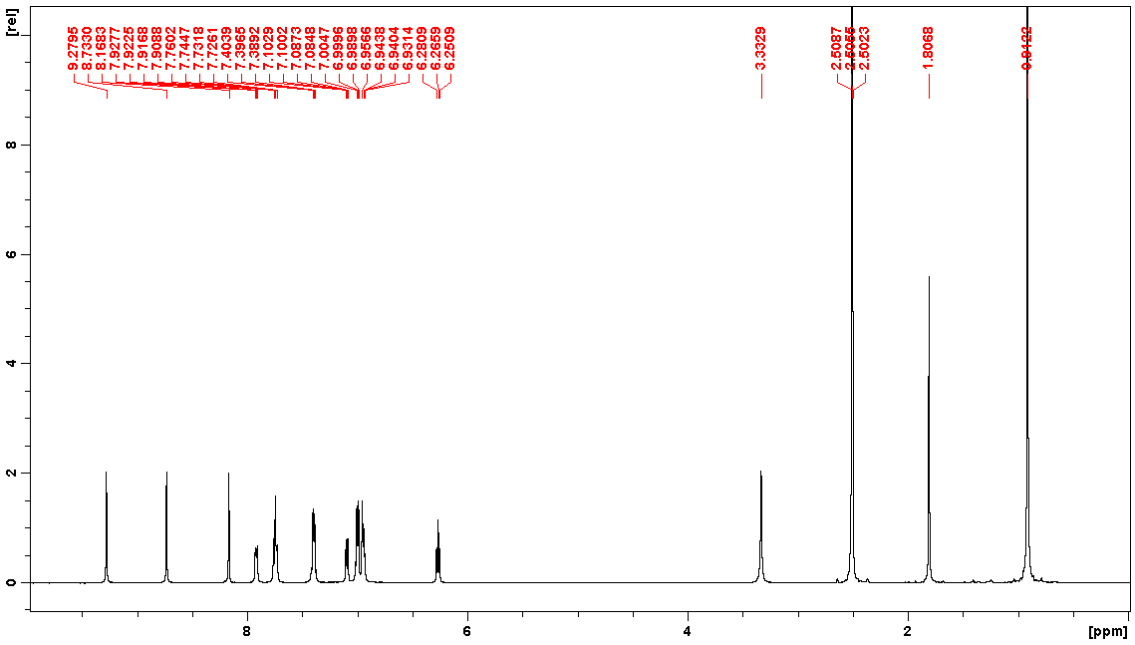


Copies of NMR and MS spectra for complex **3**:

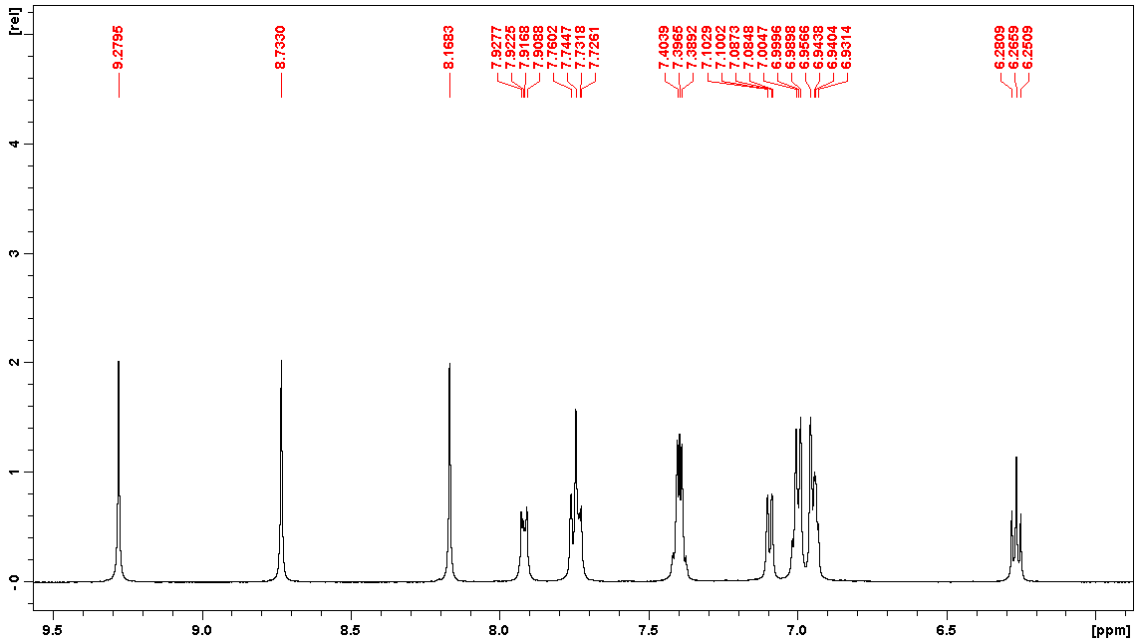


3

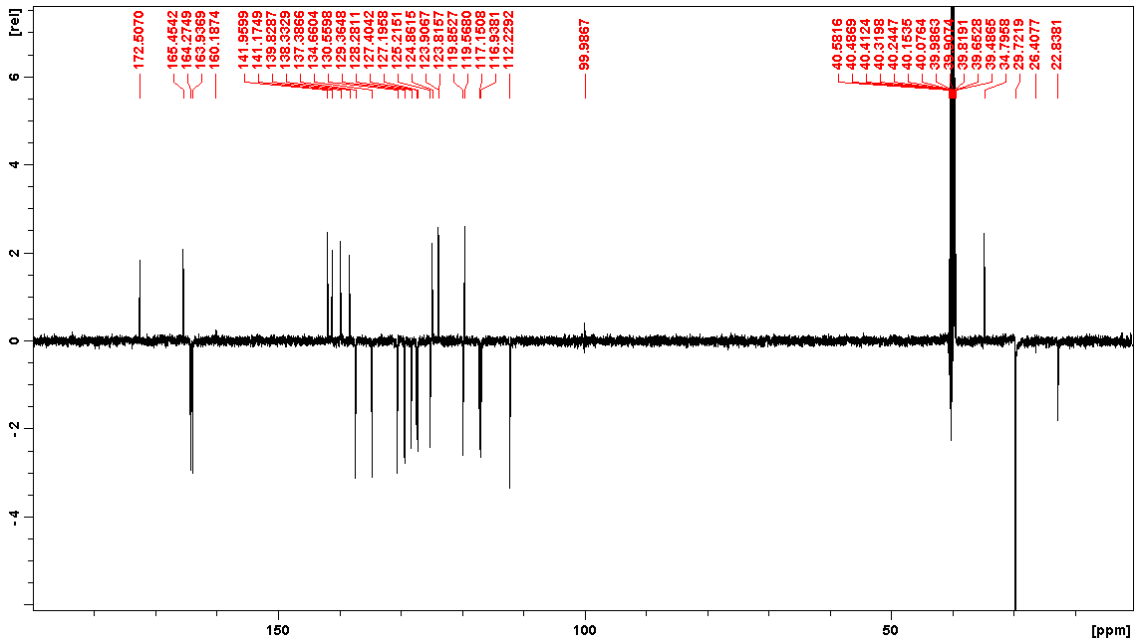
^{1}H NMR in Acetone-d_6:



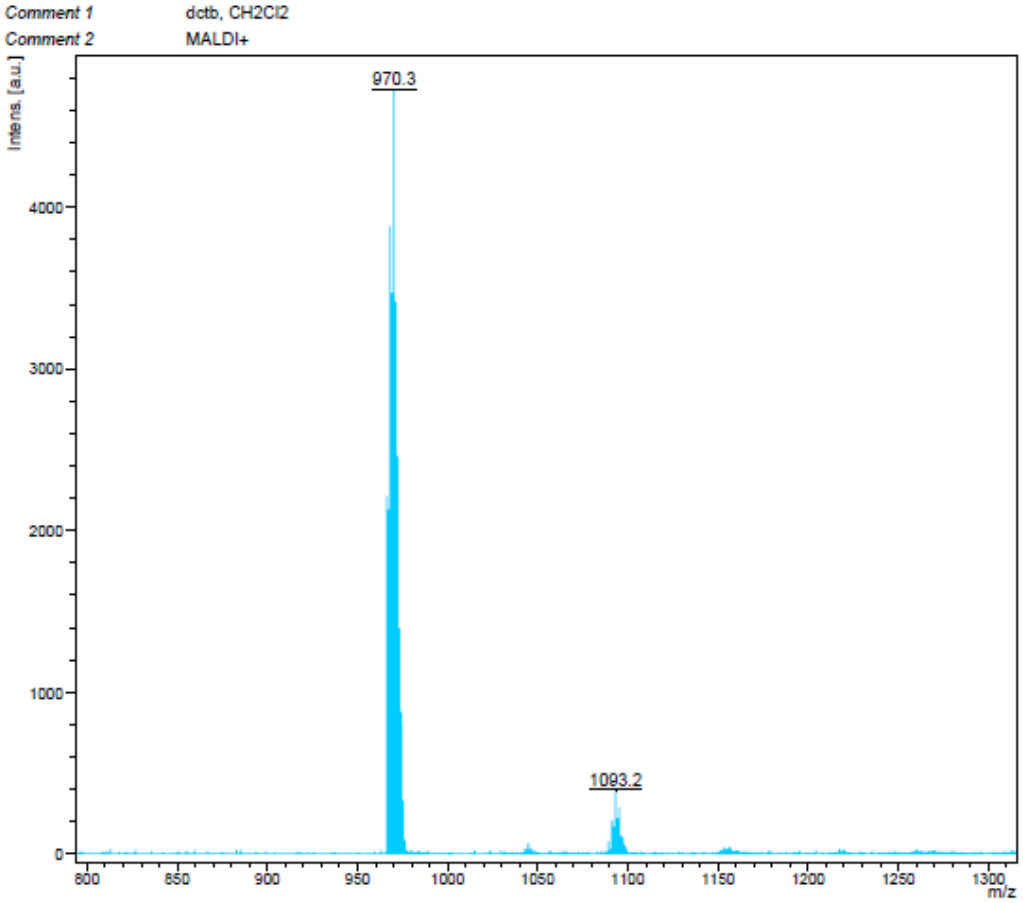
Extension of the aromatic region (^{1}H NMR for **3**, Acetone-d_6):



^{13}C{^{1}H} NMR (DEPT-Q) in Acetone-d_6:

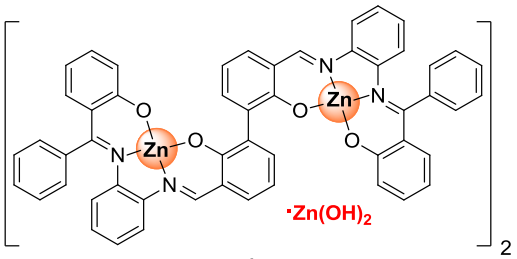


MS spectrum recorded for **3** (MALDI+, dctb):



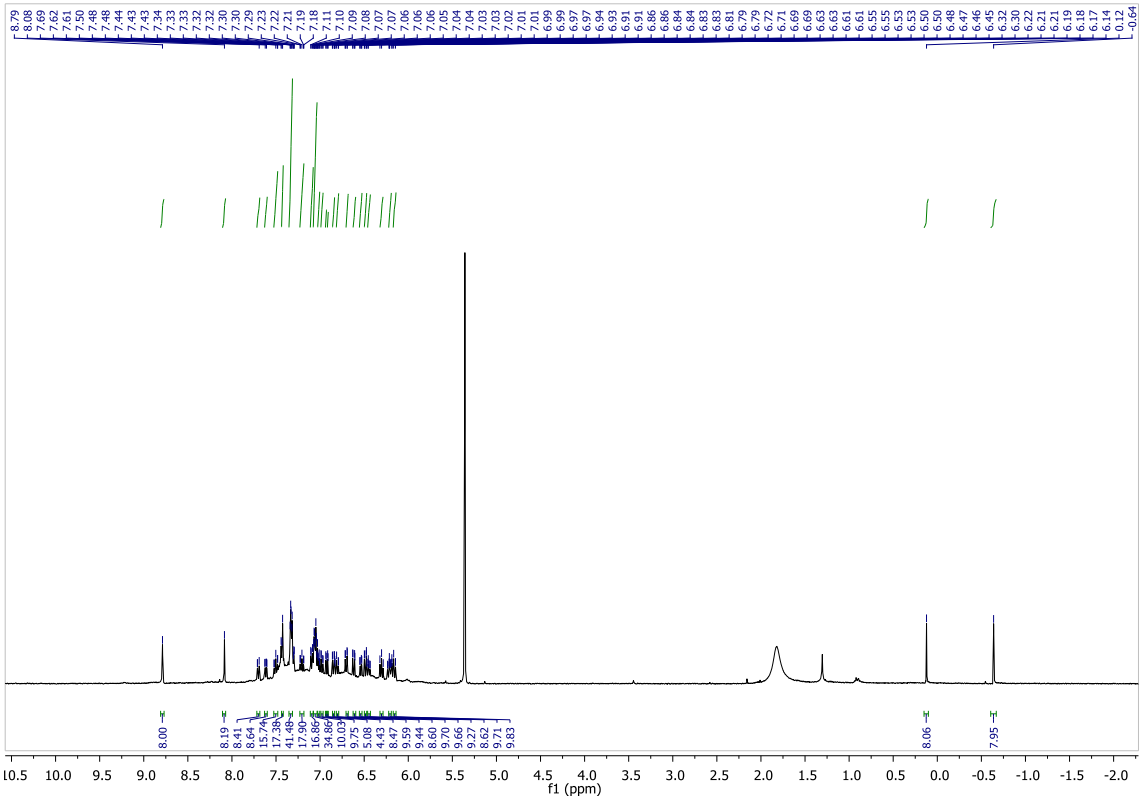
Copies of NMR and MS spectra for complex **4**:

Zn_6

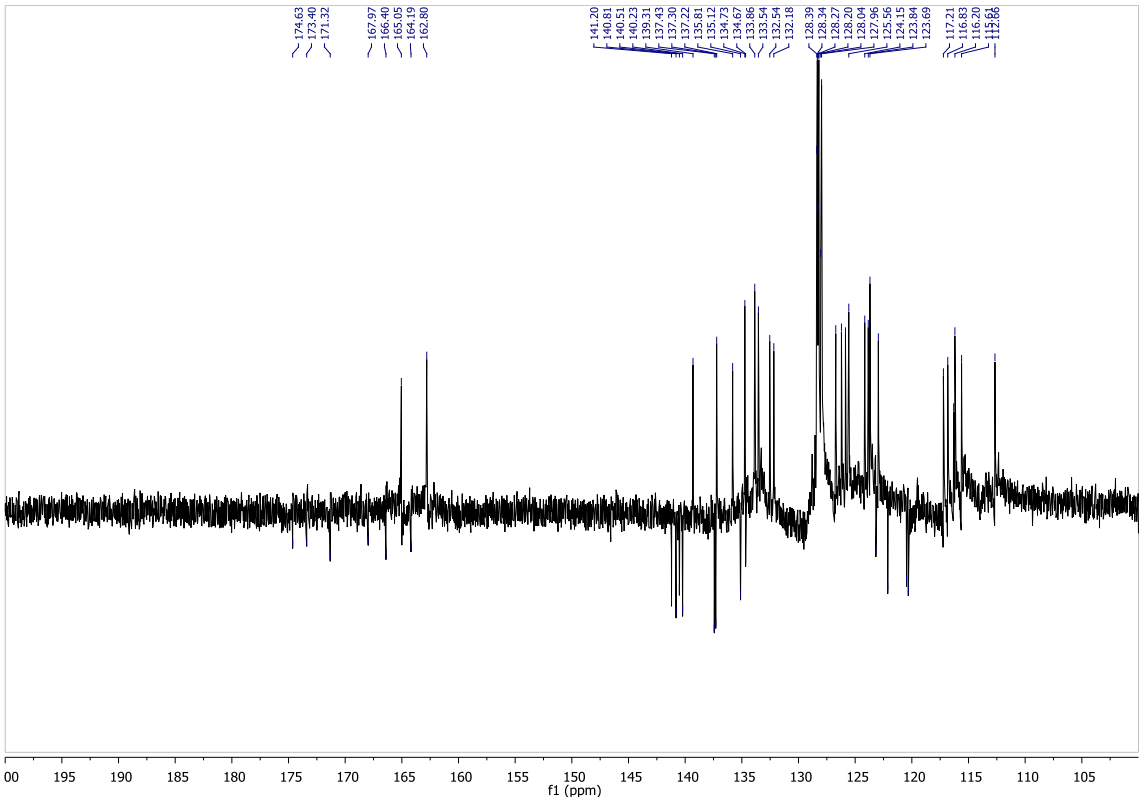


4

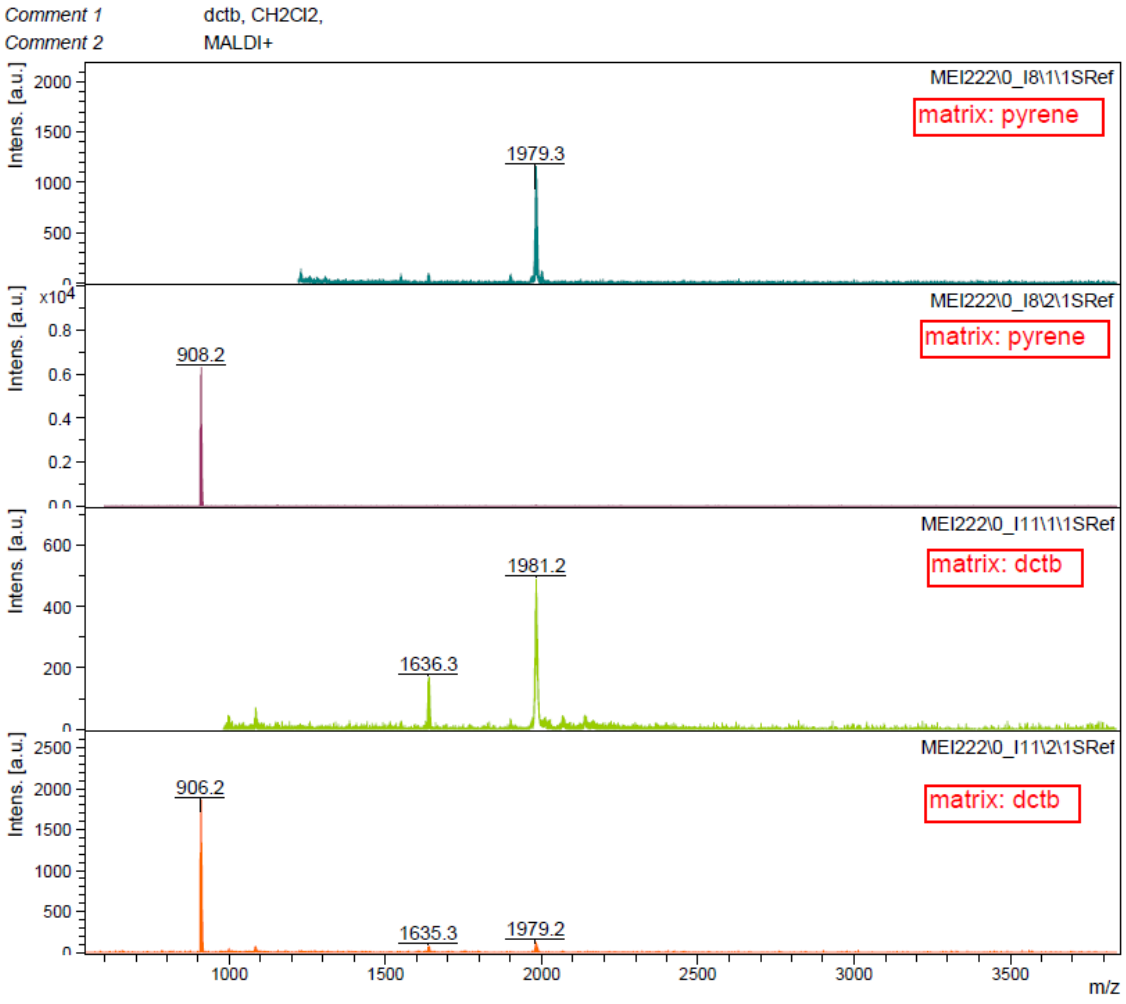
^{1}H NMR in CD_2Cl_2:



^{13}C NMR spectrum (DEPTQ) in CD_2Cl_2:

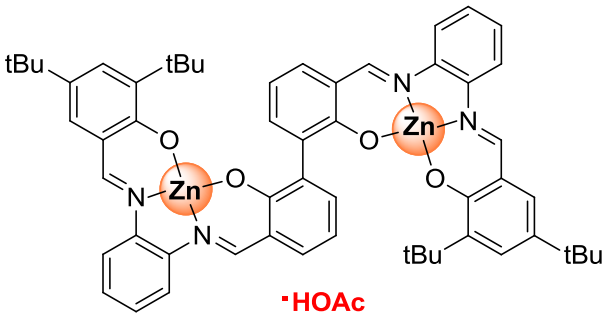


MS spectrum recorded for **4** (MALDI+, dctb or pyrene):



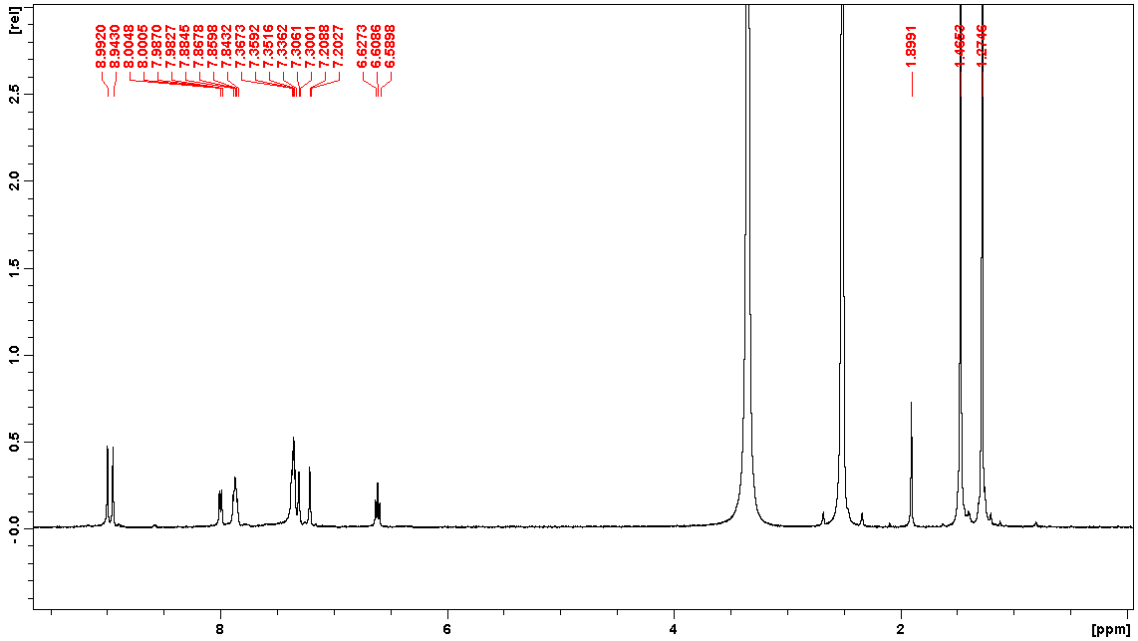
Note that the matrix has a large impact on the ms analysis (dctb versus pyrene).

Copies of NMR and MS spectra for complex **5**:

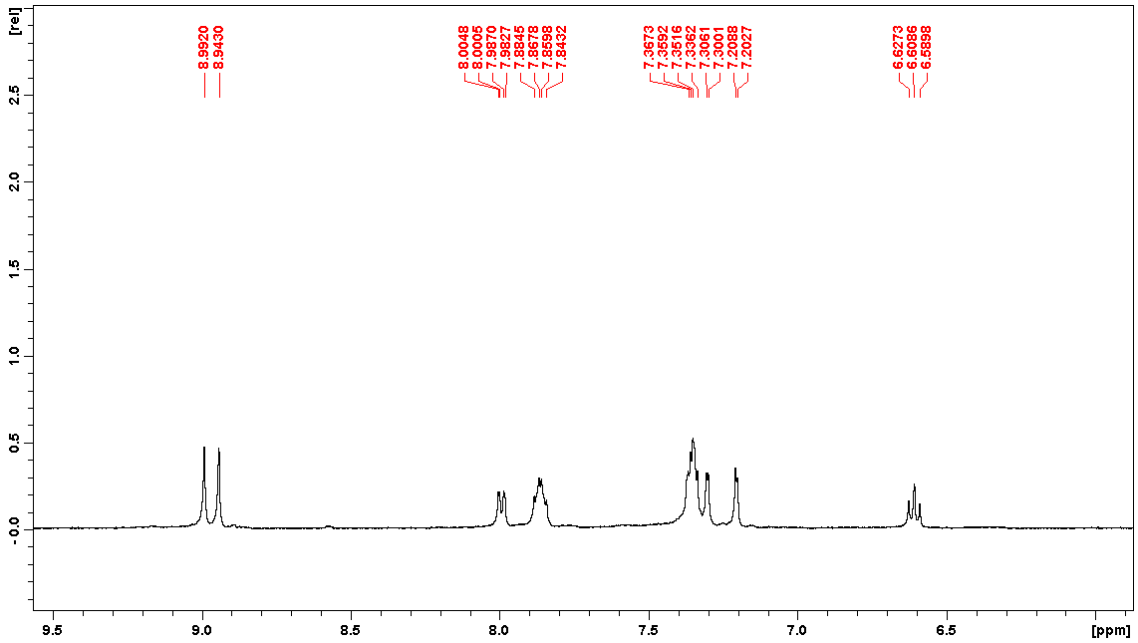


5

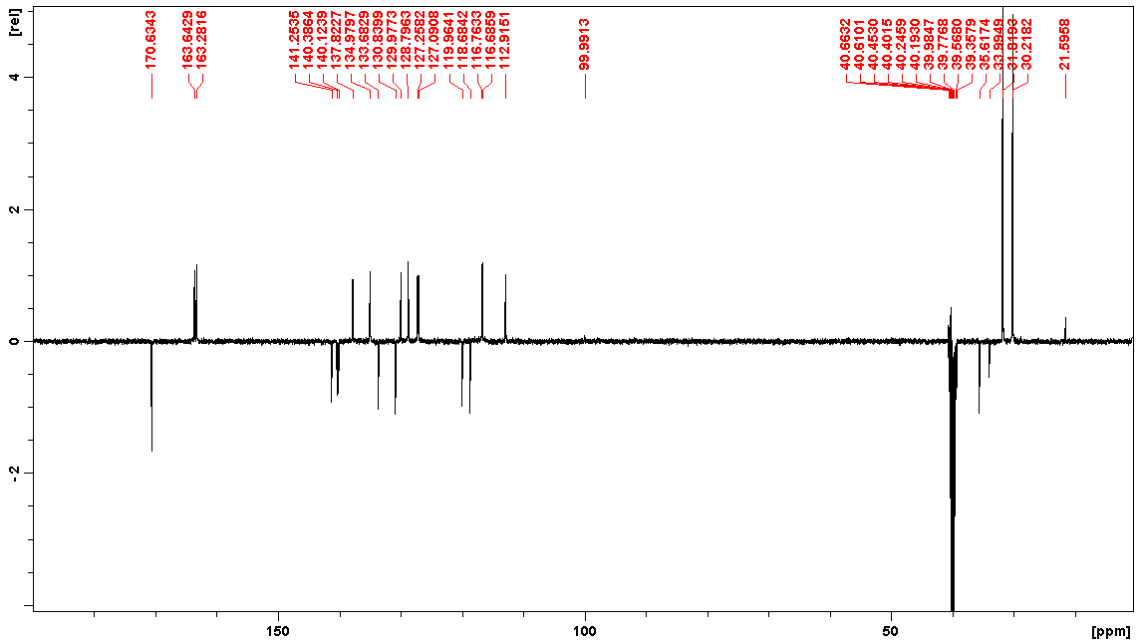
^{1}H NMR in DMSO-d_6:



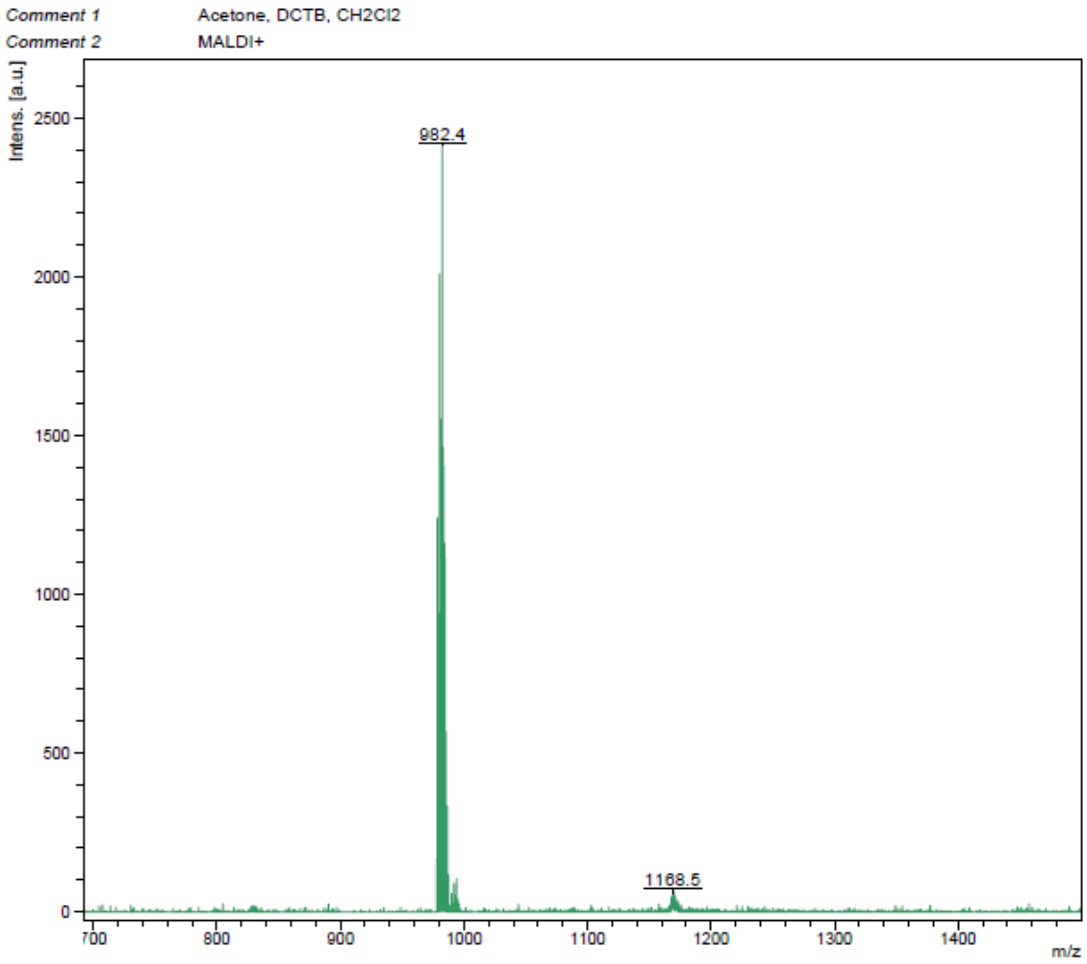
Extension of the aromatic region (^{1}H NMR for **5**, Acetone-d_6):



$^{13}C\{^{1}H\}$ NMR (DEPT-Q) in DMSO-d_6:



MS spectrum recorded for **5** (MALDI+, dctb):

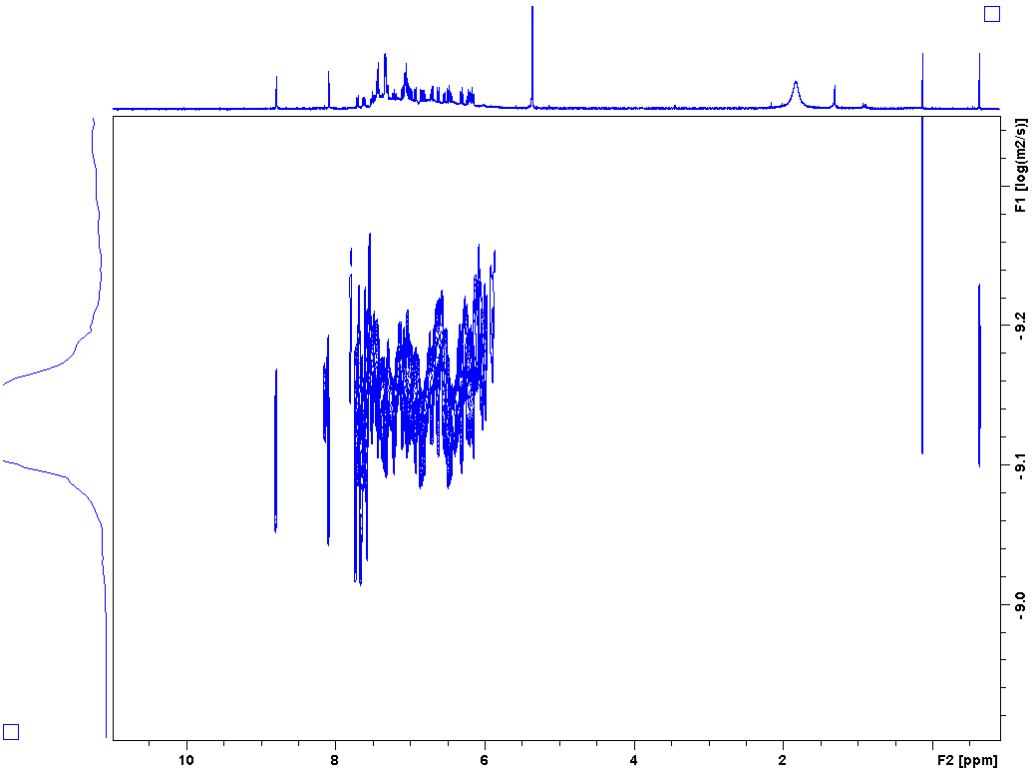


DOSY NMR of complex **4**:

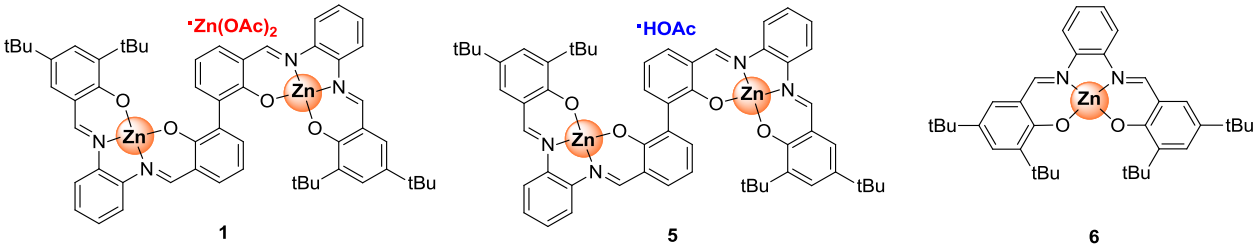
Solvent = CD_2Cl_2, r_{calc} = 7.04 Å using Stokes-Einstein equation for spherical particles:

$$D = \frac{k_B T}{6\pi \eta R}$$

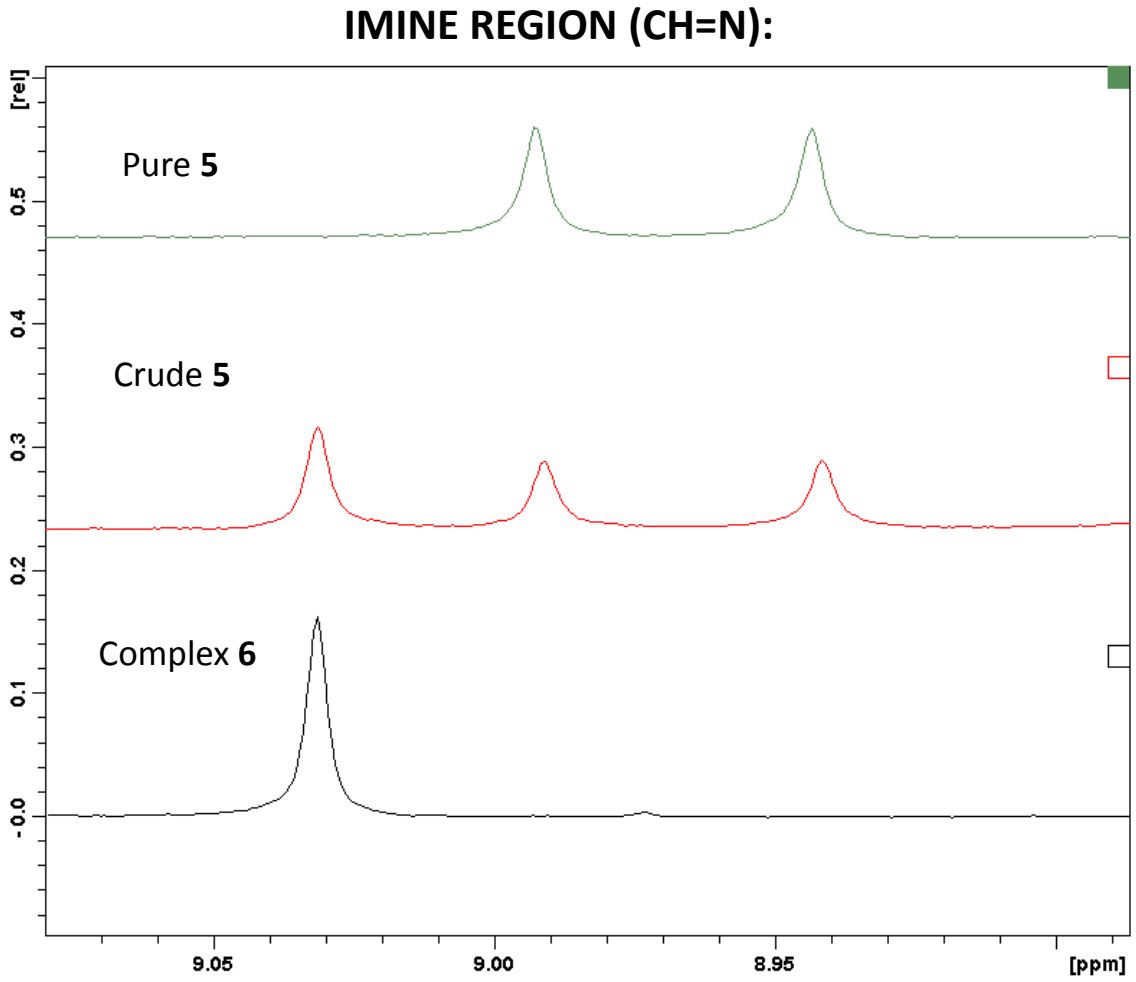
where *n* is the viscosity of the medium and k_B is the Boltzmann´s constant and *R* is the radius of the species.



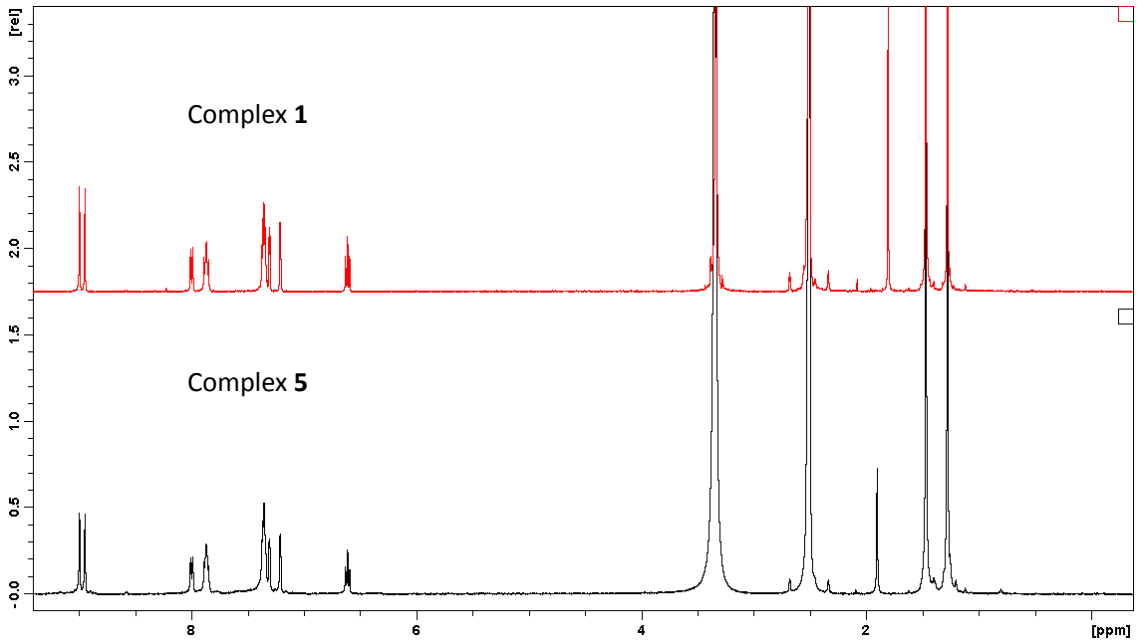
Comparison of the $^{1}H/^{13}C$ NMR spectra for crude **5**, pure **5** and complex **1**:

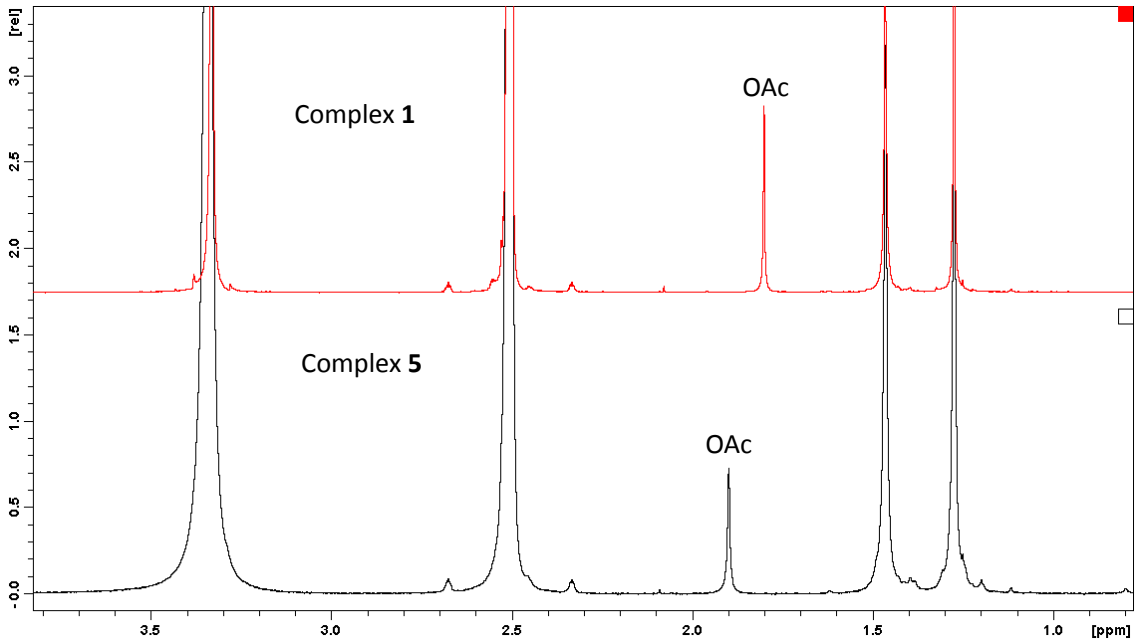


Solvent: DMSO-d_6, 400 MHz, r.t.



Full comparison between complex **1** and **5**; below an expansion is shown for the region where the OAc fragments resonate:





Comparison between complex **1** and **5**; ^{13}C region of the OAc fragments (DMSO-d_6):