Electronic Supplementary Material (ESI) for New Journal of Chemistry.

Structural Diversity of the complexes of monovalent metal d^{10} ions with macrocyclic aggregates if iso-tellurazole *N*-oxides

Jin Wang, Peter C. Ho, James F. Britten, Valerie Tomassetti and Ignacio Vargas-Baca*

McMaster University, Department of Chemistry and Chemical Biology, 1280 Main Street West, Hamilton, Ontario, Canada L0R 1W0.

* To whom correspondence should be addressed. E-mail: vargas@chemistry.mcmaster.ca

SUPPLEMENTARY INFORMATION

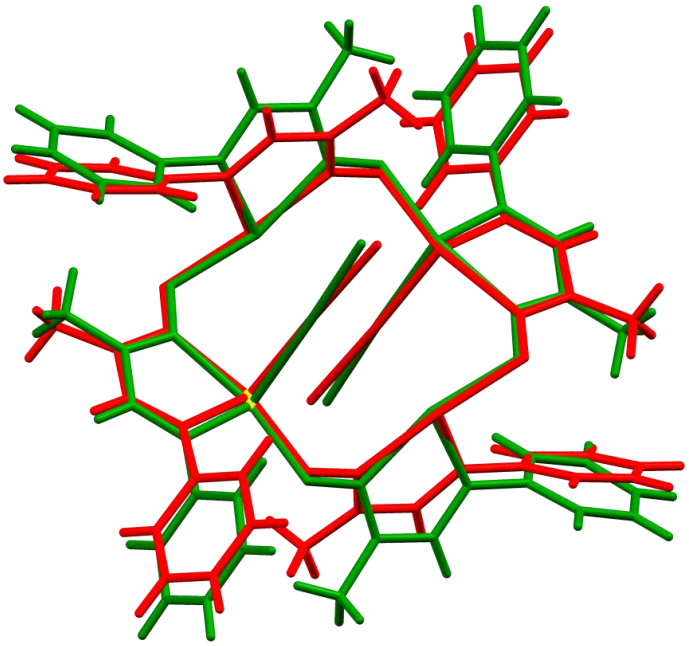

Figure S1. Superposition of the two crystallographically independent molecular structures in the crystal of $[Au_2Cl_2(\mathbf{1b}_4)]$.

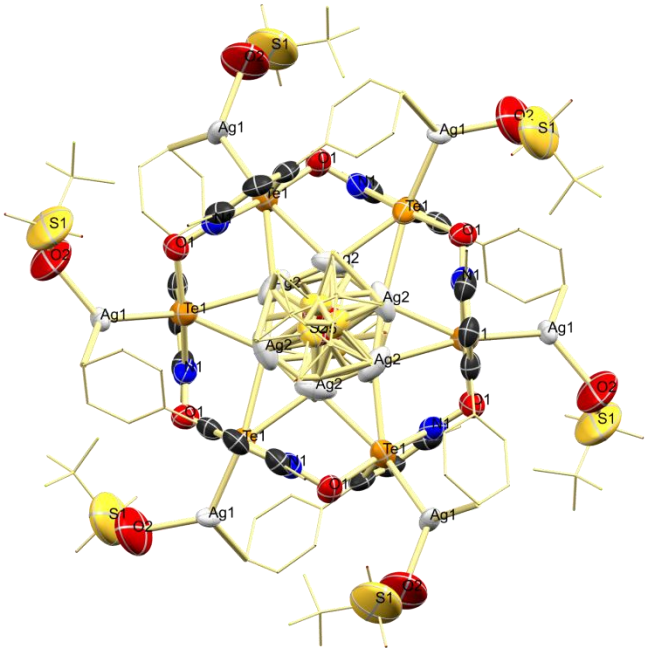

Figure S2. ORTEP displaying the superposition of three orientaions of the molecular structure of the complex $\{[Ag_2(\mu\text{-}CF_3SO_3)_2(\mathbf{1b}_6)]Ag_2(CF_3SO_3)_2\}$. Hydrogen atoms, are omitted for clarity; displacement ellipsoids calculated at 75%).

NMR spectroscopy

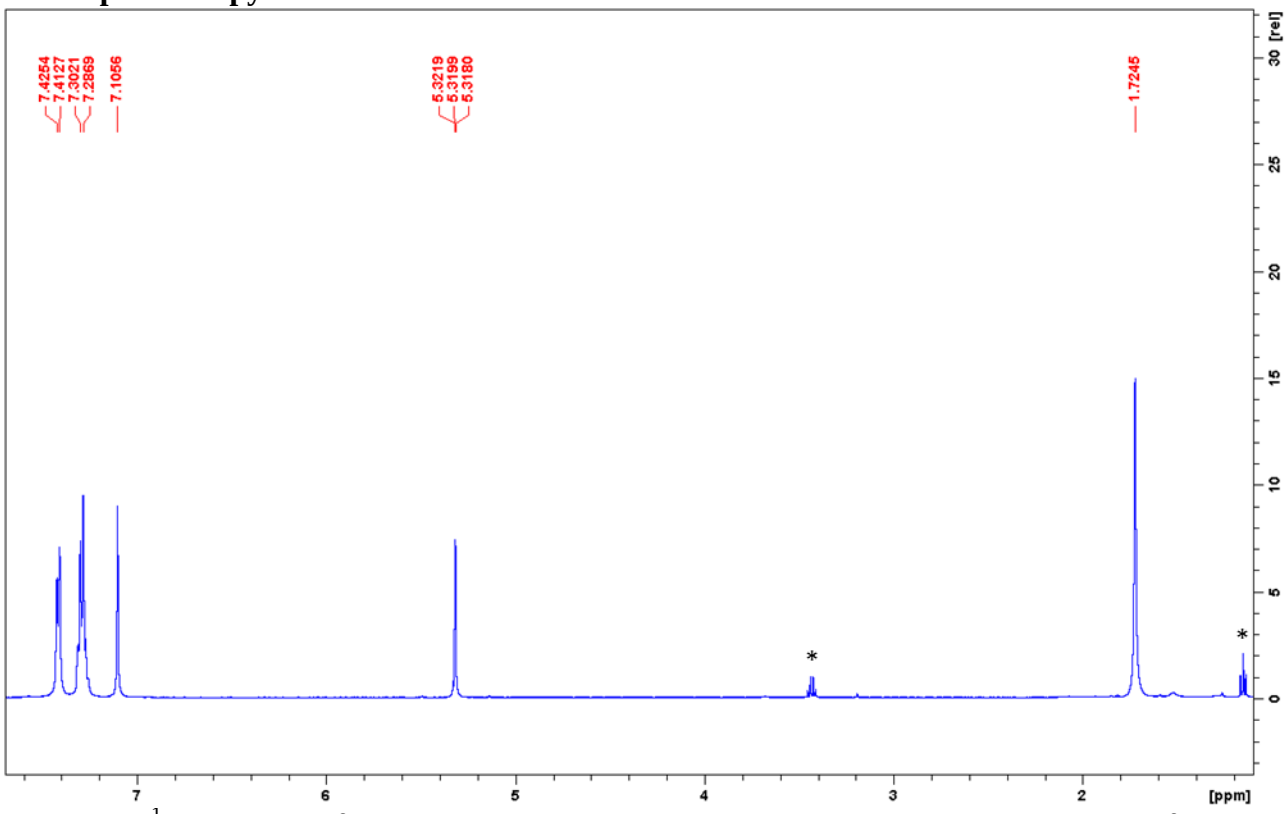

Figure S3. ^{1}H spectrum of [Cu(**1b**$_4$)(CF_3SO_3)] in CD_2Cl_2. Asterisks mark the resonances of Et_2O in trace amounts.

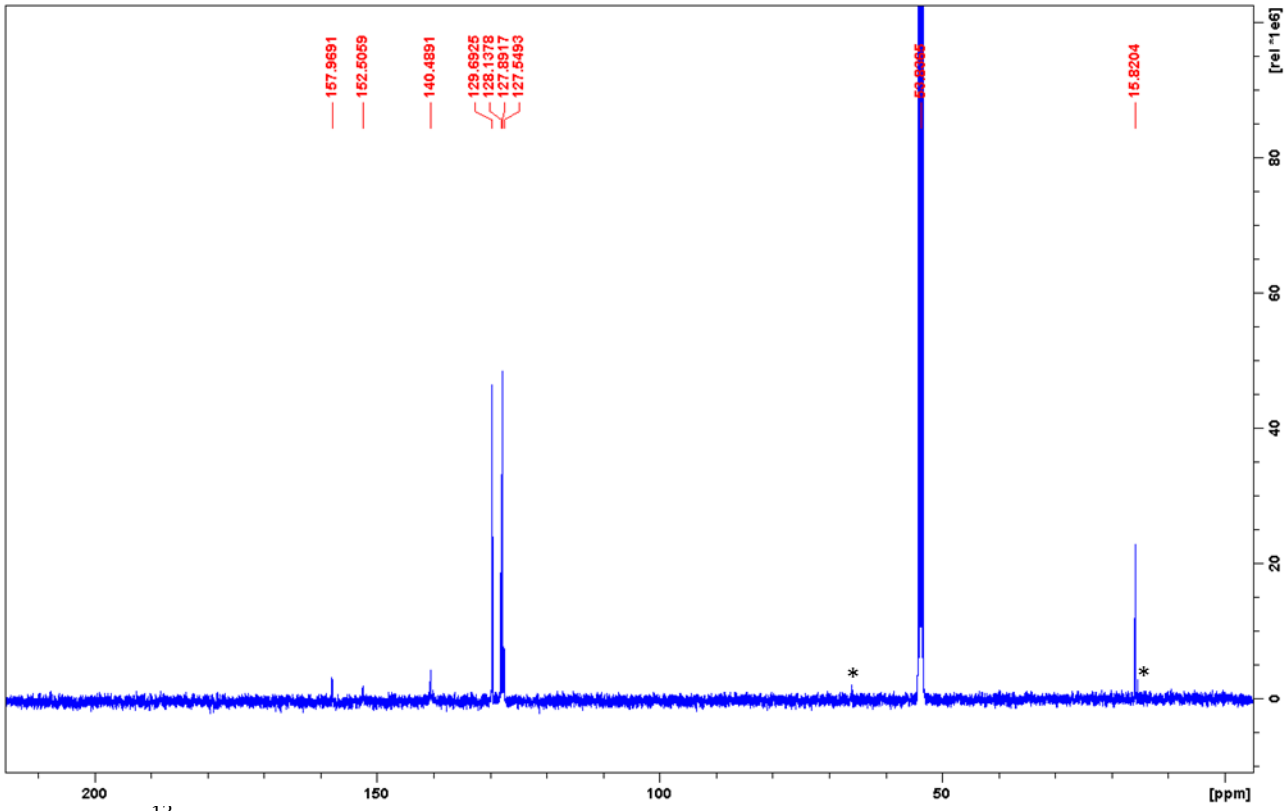

Figure S4. ^{13}C spectrum of [Cu(**1b**$_4$)(CF_3SO_3)] in CD_2Cl_2. Asterisks mark the resonances of Et_2O in trace amounts.

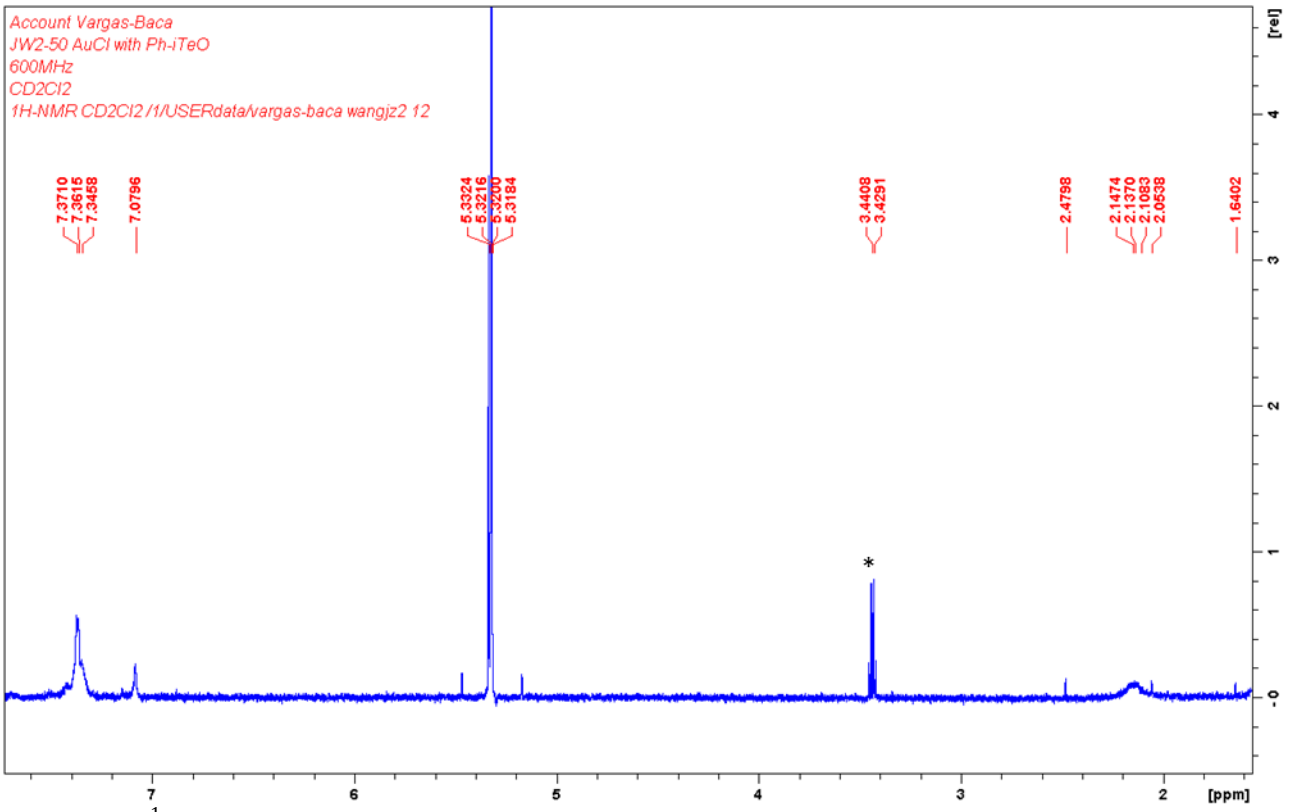

Figure S5. ^{1}H spectrum of [Au_2Cl_2(**1b**$_4$)]in CD_2Cl_2. The asterisk marks a resonance of residual Et_2O.

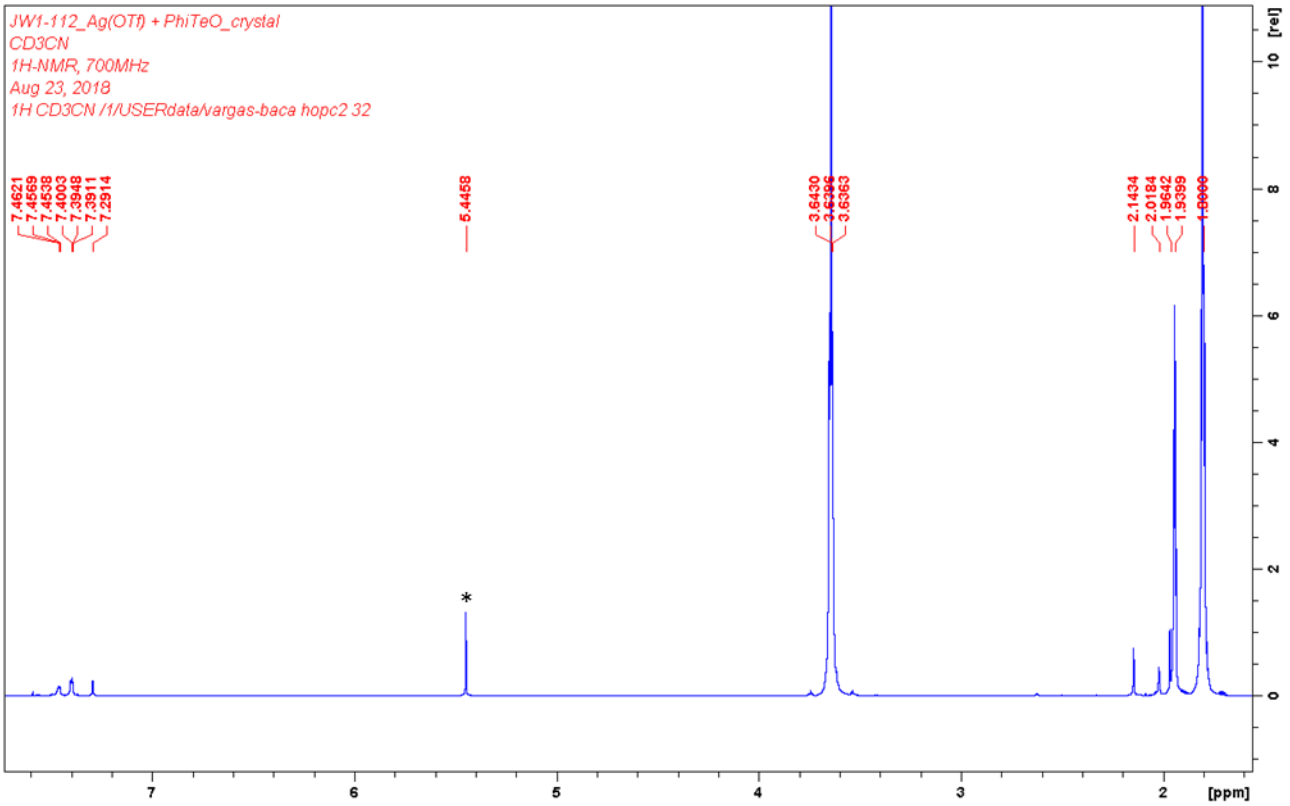

Figure S6. ^{1}H spectrum of {[Ag_2(μ-CF_3SO_3)$_2$(**1b**$_6$)]Ag_2(CF_3SO_3)$_2$} in CD_3CN. The asterisk marks a resonance of crystallization CH_2Cl_2.

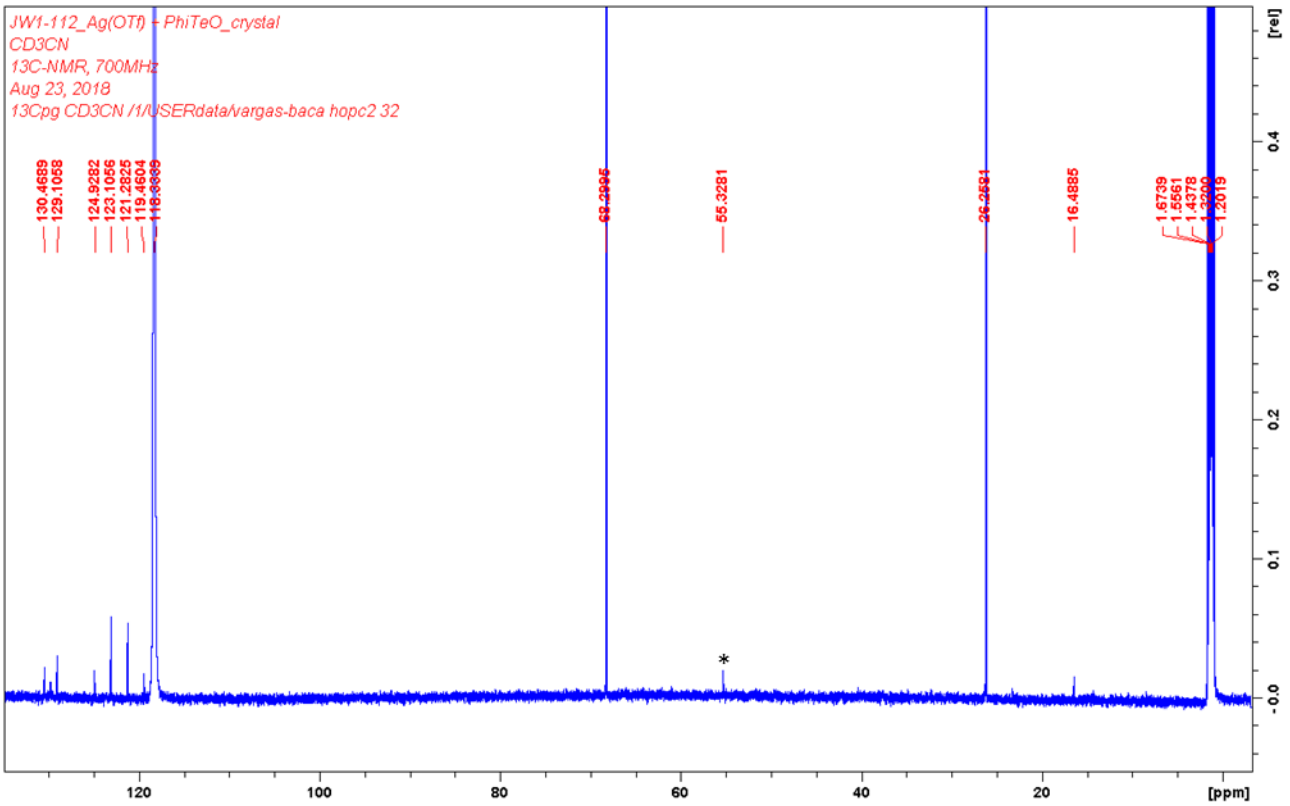

Figure S7. ^{13}C spectrum of {[Ag_2(μ-CF_3SO_3)$_2$(**1b**$_6$)]Ag_2(CF_3SO_3)$_2$} in CD_3CN The asterisk marks a resonance of crystallization CH_2Cl_2.

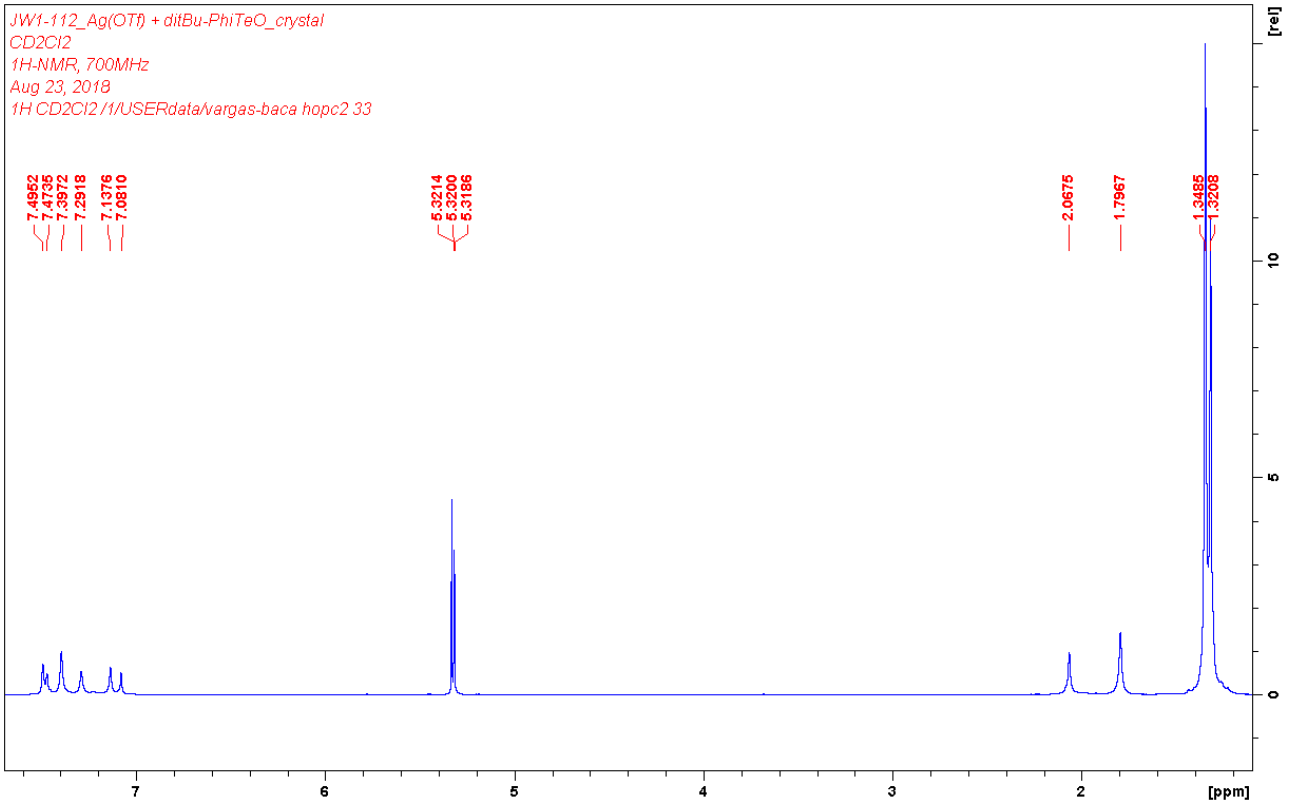

Figure S8. ^{1}H spectrum of {[Ag_2(μ-CF_3SO_3)$_2$(**1c**$_6$)]Ag_2(CF_3SO_3)$_2$} in CD_2Cl_2.

Figure S9. ^{13}C spectrum of {[Ag_2(μ-CF_3SO_3)$_2$(**1c**$_6$)]Ag_2(CF_3SO_3)$_2$} in CD_2Cl_2.