

Electronic Supplementary Information

Investigation of Metal Ligand Affinities of Atom Transfer Radical Polymerization Catalysts with a Quadrupole Ion Trap

Fabio di Lena and Krzysztof Matyjaszewski*

Department of Chemistry, Carnegie Mellon University, 4400 Fifth Avenue, Pittsburgh, PA 15213,
USA. Fax: 1-412-268-6897; Tel: 1-412-268-3209; E-mail: km3b@andrew.cmu.edu.

ESI-MS spectra

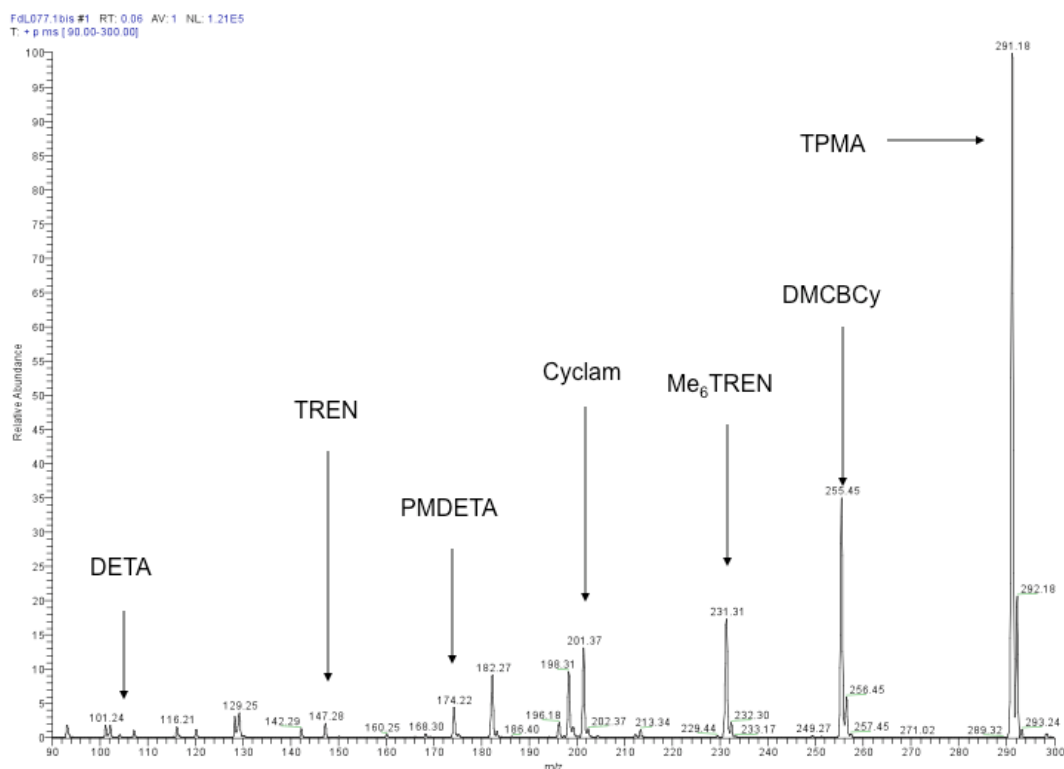


Figure 1S. Typical ESI-MS spectrum of ligands in H₂O:MeOH 9:1 (v:v) before the addition of Cu(OTf)₂.

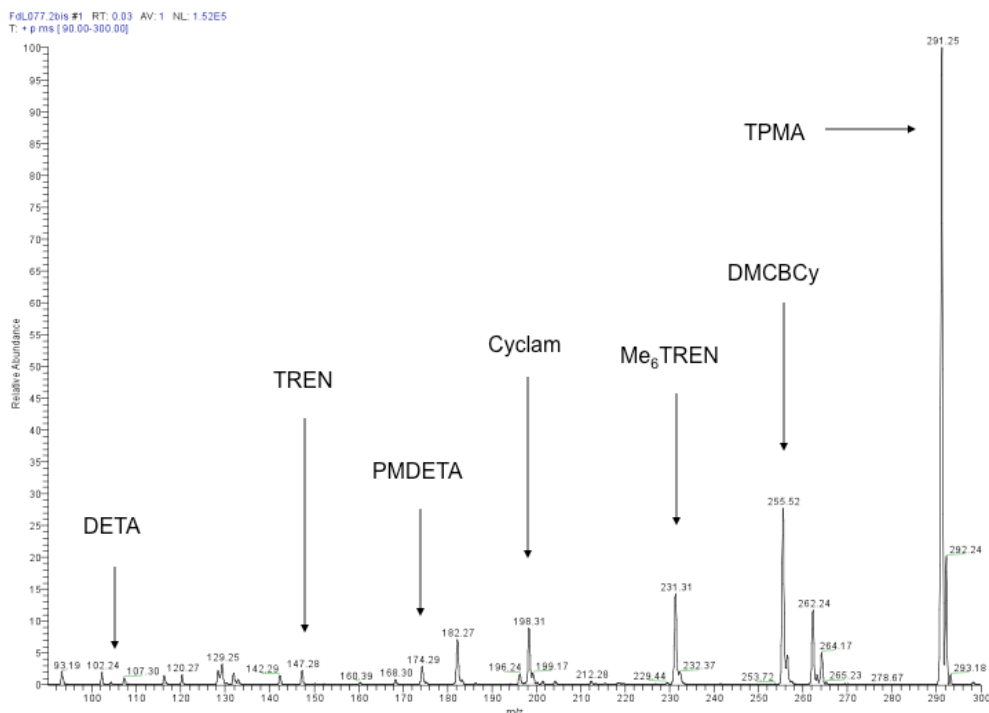


Figure 2S. Typical ESI-MS spectrum of ligands in H₂O:MeOH 9:1 (v:v) after the addition of Cu(OTf)₂ and the 2 h equilibration at 80 °C.

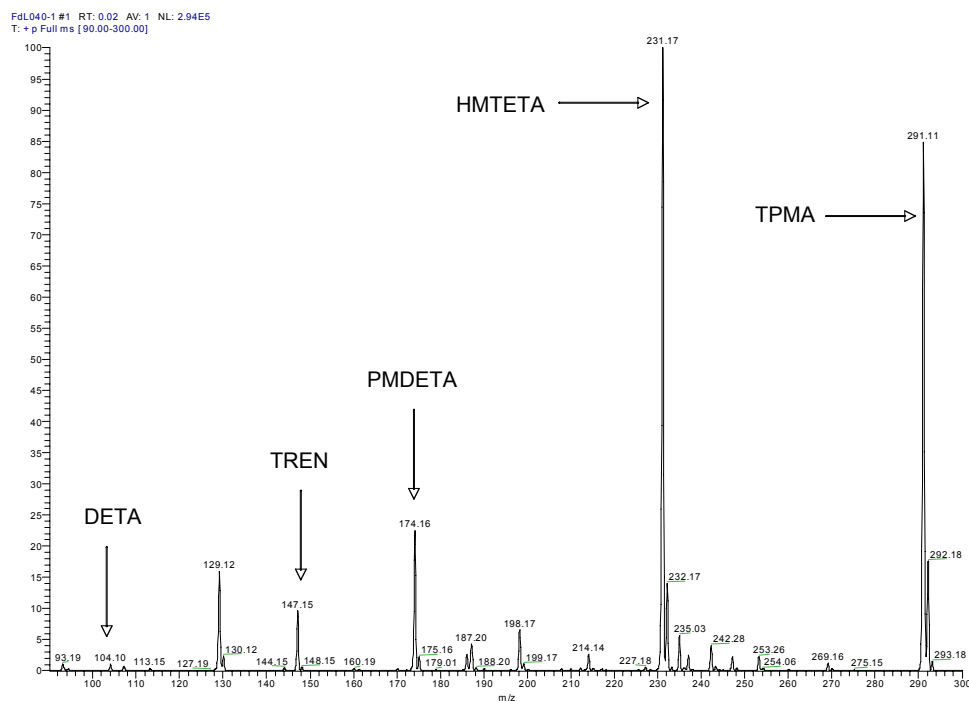


Figure 3S. Typical ESI-MS spectrum of ligands in MeCN before the addition of Cu(OTf)₂.

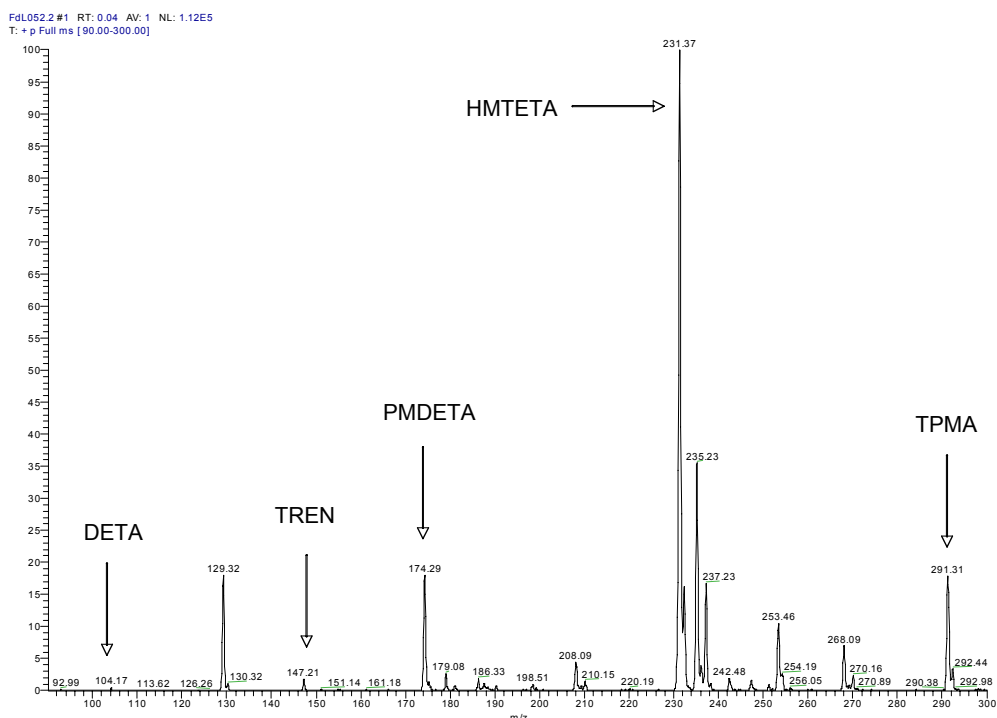


Figure 4S. Typical ESI-MS spectrum of ligands in MeCN after the addition of $\text{Cu}(\text{OTf})_2$.

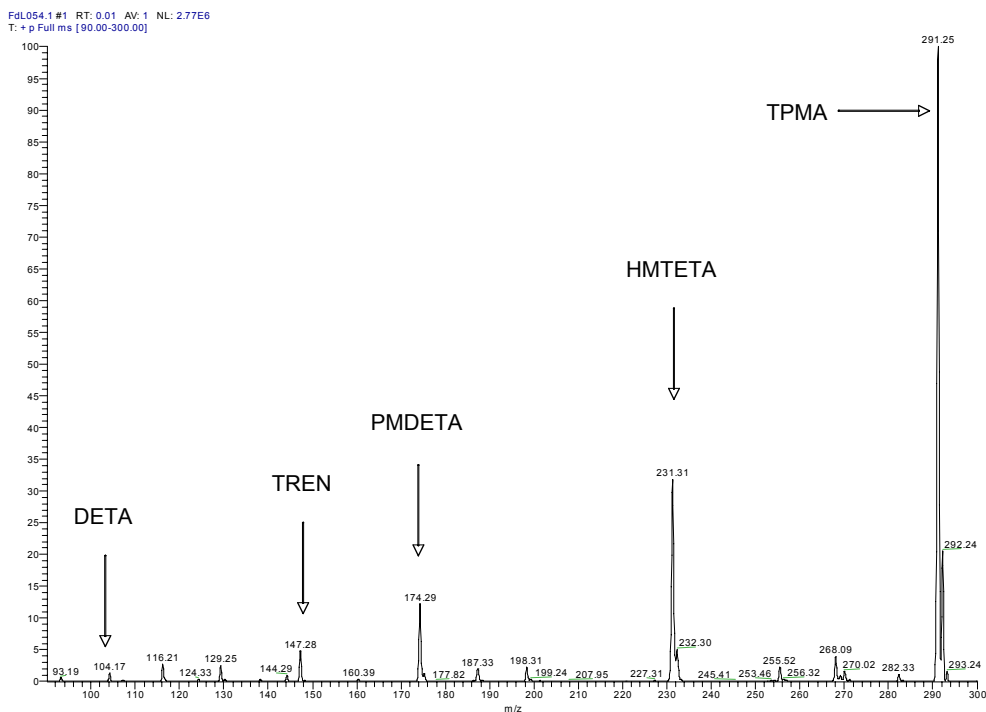


Figure 5S. Typical ESI-MS spectrum of ligands in MeOH before the addition of $\text{Cu}(\text{OTf})_2$.

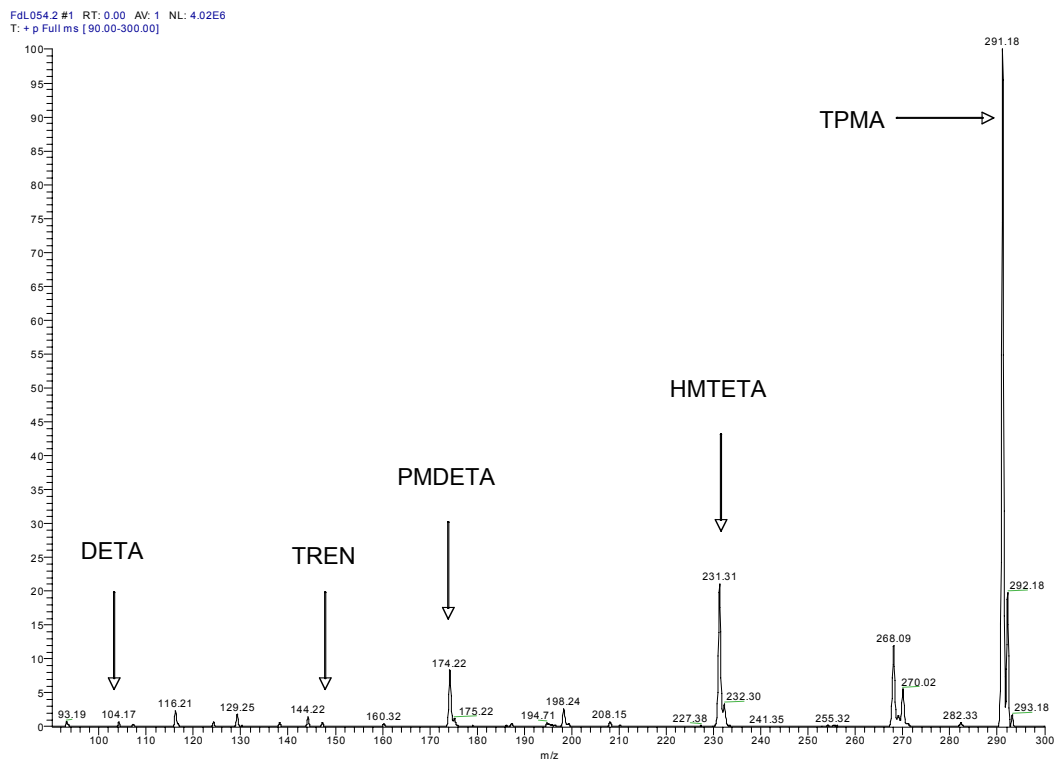


Figure 6S. Typical ESI-MS spectrum of ligands in MeOH after the addition of Cu(OTf)₂.

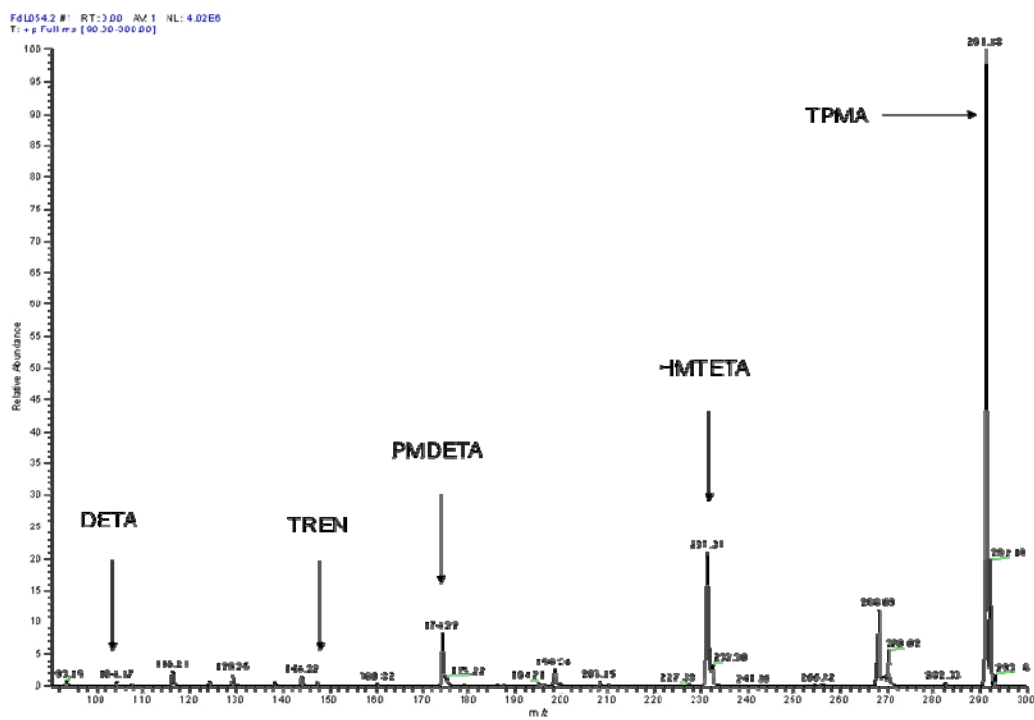


Figure 7S. Typical ESI-MS spectrum of ligands in acetone before the addition of Cu(OTf)₂.

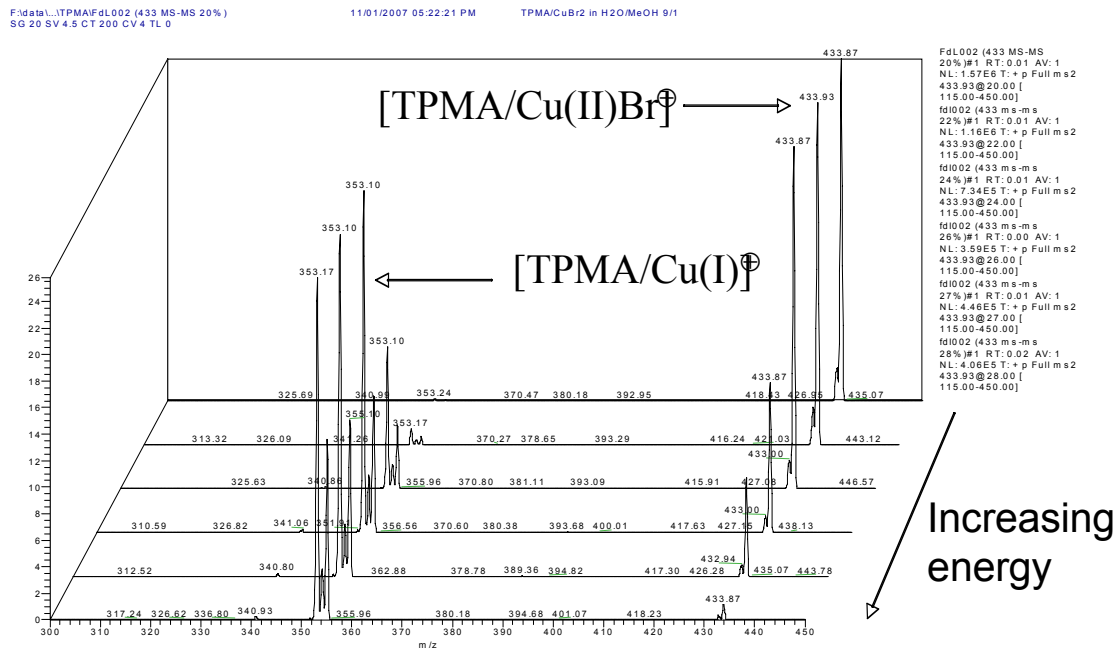


Figure 8S. EV-CAD mass spectra for the decay of $[TPMA/Cu(II)Br]^{\oplus}$.

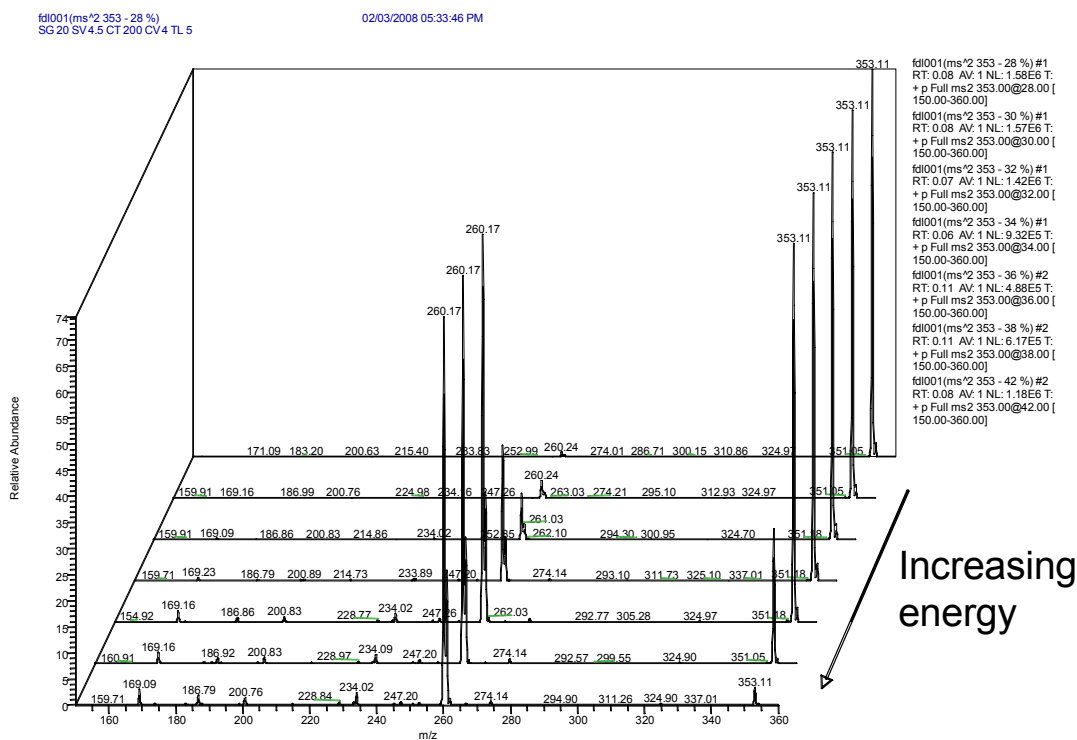


Figure 9S. EV-CAD mass spectra for the decay of $[TPMA/Cu(I)]^{\oplus}$.