

Supporting Information

Cleavable Ligands Enable Uniform Close Packing in Colloidal Quantum Dot Solids

*Graham H. Carey, Mingjian Yuan, Riccardo Comin, Oleksandr Voznyy, Edward H. Sargent**

The Edward S. Rogers Department of Electrical and Computer Engineering

University of Toronto

10 King's College Road

Toronto, Ontario, M5S 3G4, Canada

*ted.sargent@utoronto.ca

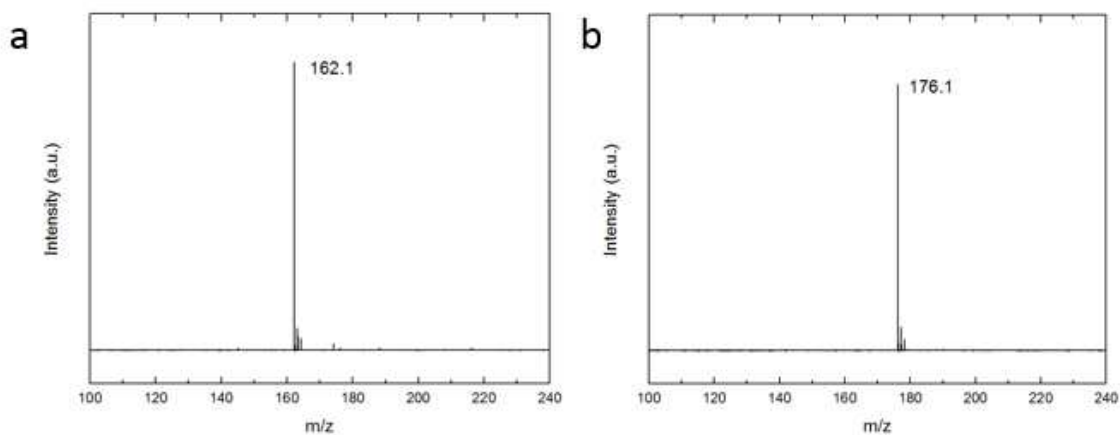


Figure S1. Ligand synthesis. Mass spectra for thioamide synthesized with (a) butylamine (3MN4P) and (b) pentylamine (3MN5P). Expected peaks are found at m/z 162.1 and 176.1, respectively, with minimal evidence of by-products present.

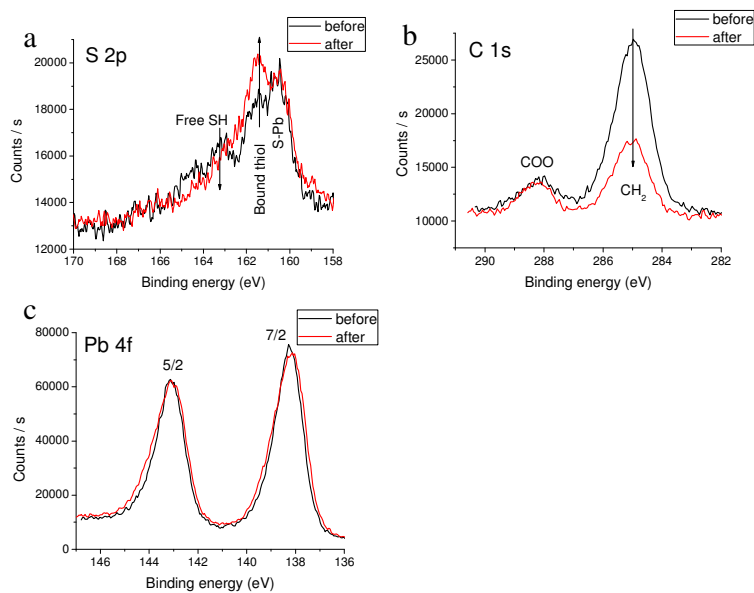


Figure S2. XPS spectra before and after cleaving. Signals for (a) sulfur, (b) carbon and (c) lead are shown. No change is observed in bulk Pb-S signals, while a slight increase in bound thiol is observed, along with a decrease in CH_2 signal.