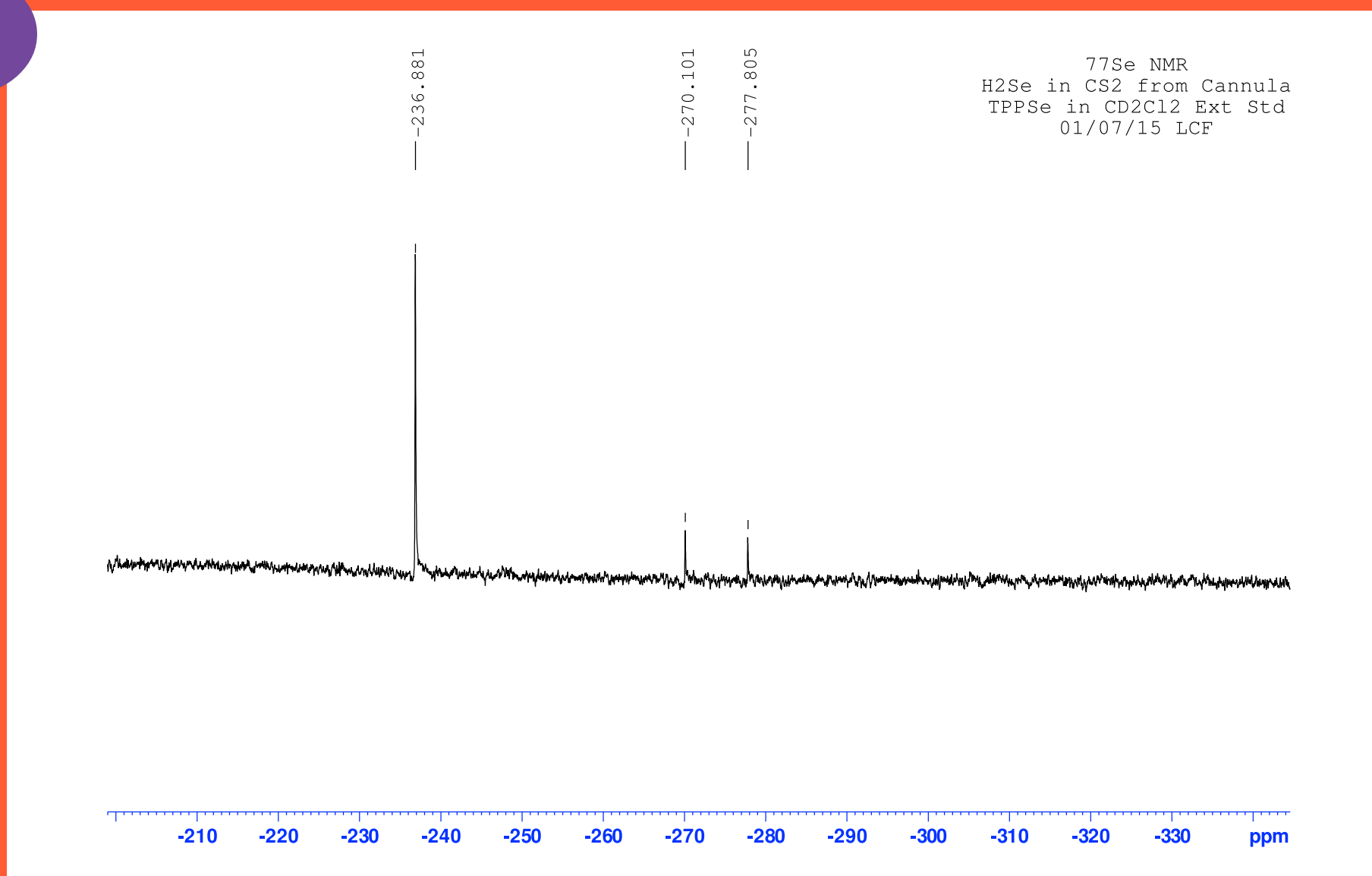




# nmr is science



*77Se NMR*

**Leah Frenette, 2014**

Chemistry Department | University of Rochester

**Field strength:** 500 MHz

**Why is this your favorite spectrum?**

This spectrum was acquired overnight on our highest-powered instrument using a coaxial insert for the ability to include an external standard (triphenylphosphine selenide, the doublet). The experiment proved that hydrogen selenide was being generated from the thermal decomposition of tri-*n*-butylphosphine selenide in the presence of octanoic acid at high temperatures, the same conditions for CdSe quantum dot synthesis.