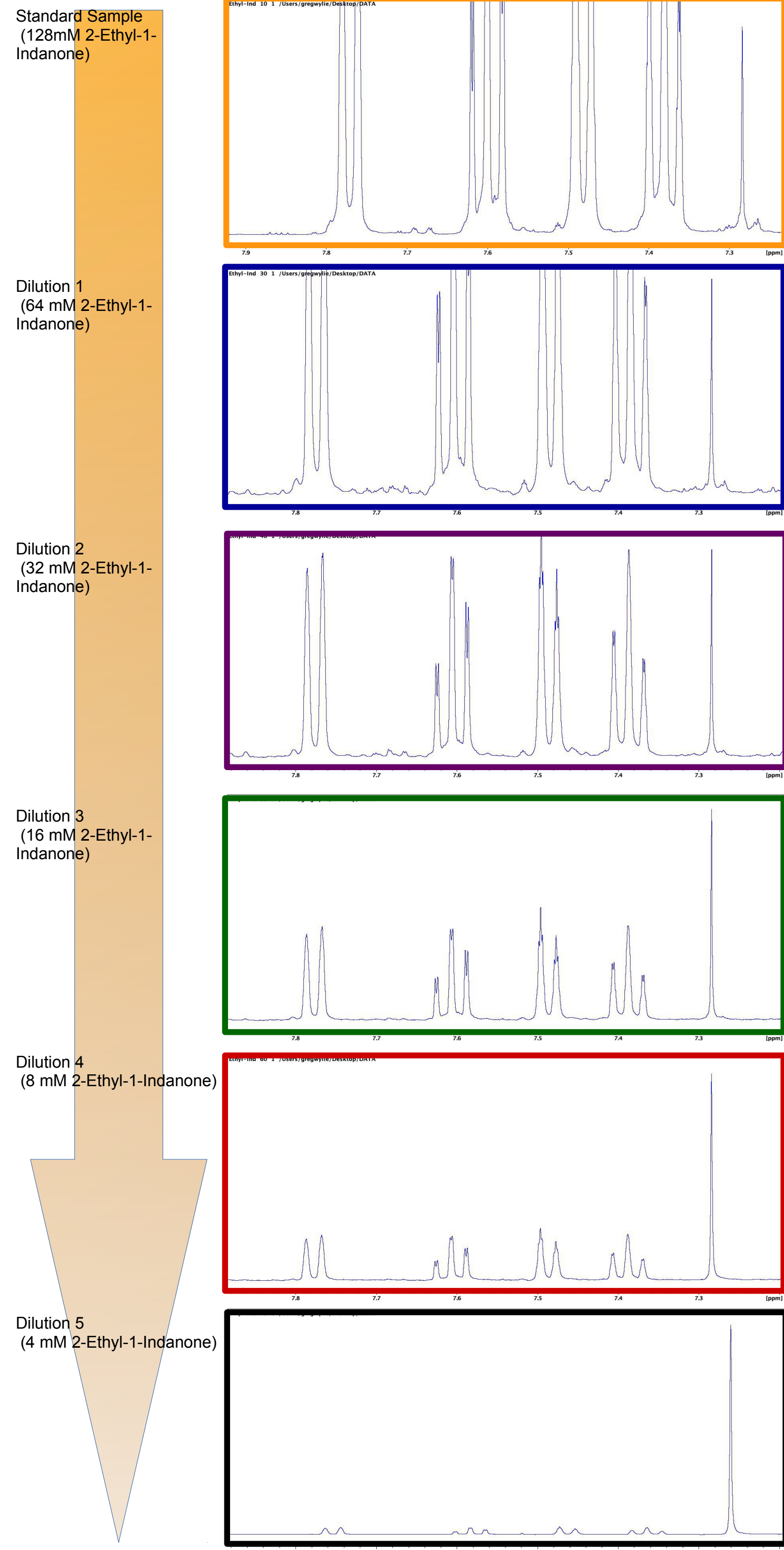
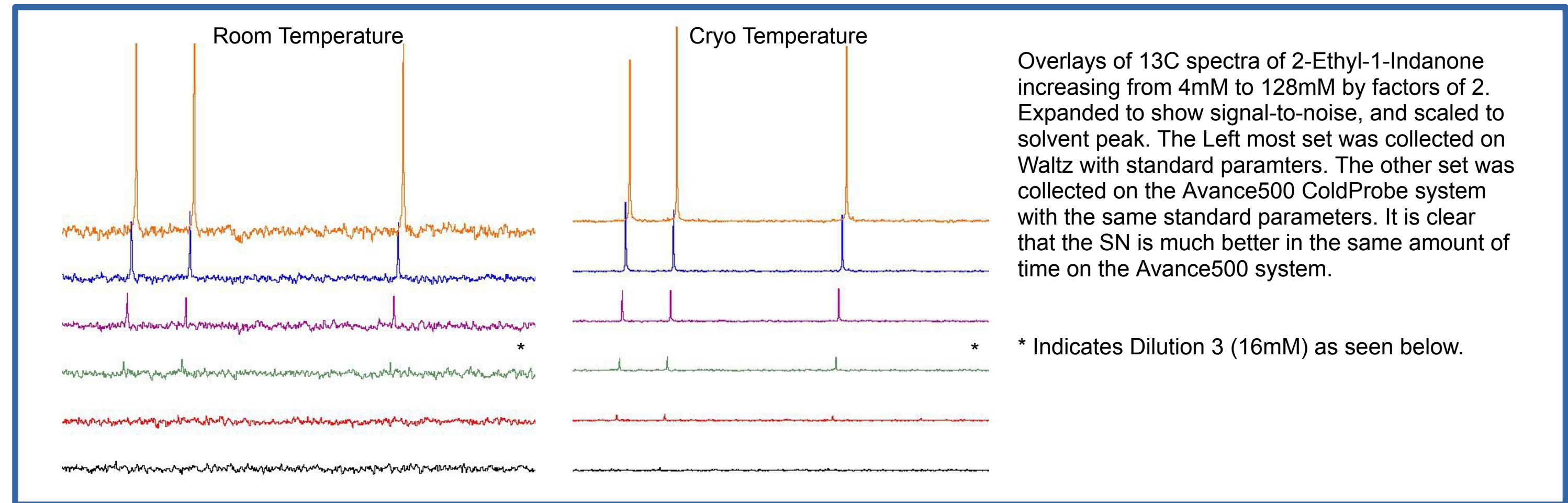


# Various Options when Sample Concentration is Low

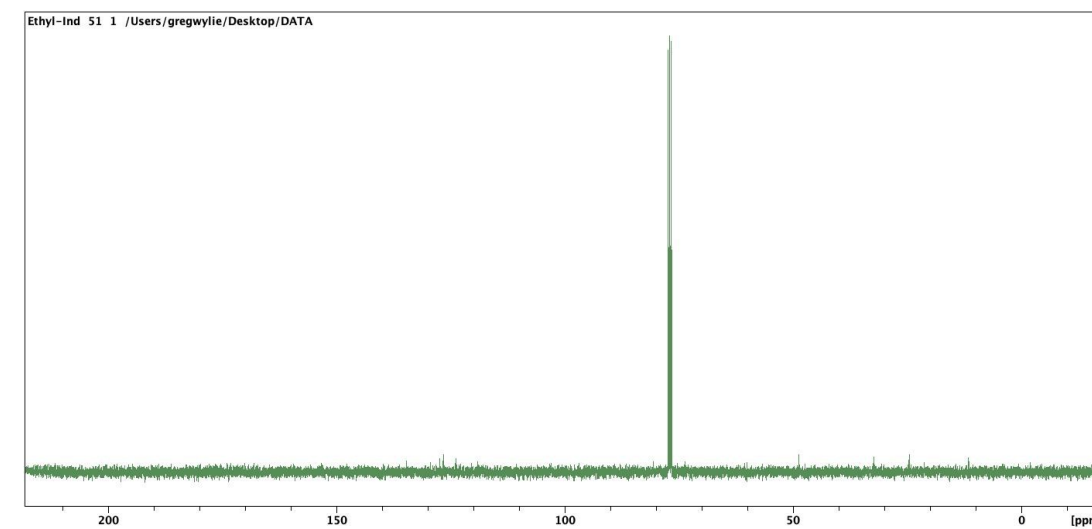


1H Spectra of 2-Ethyl-1-Indanone in decreasing concentration. Acquired with standard 1H paramters on Waltz. Spectra scaled to solvent peak (\*).



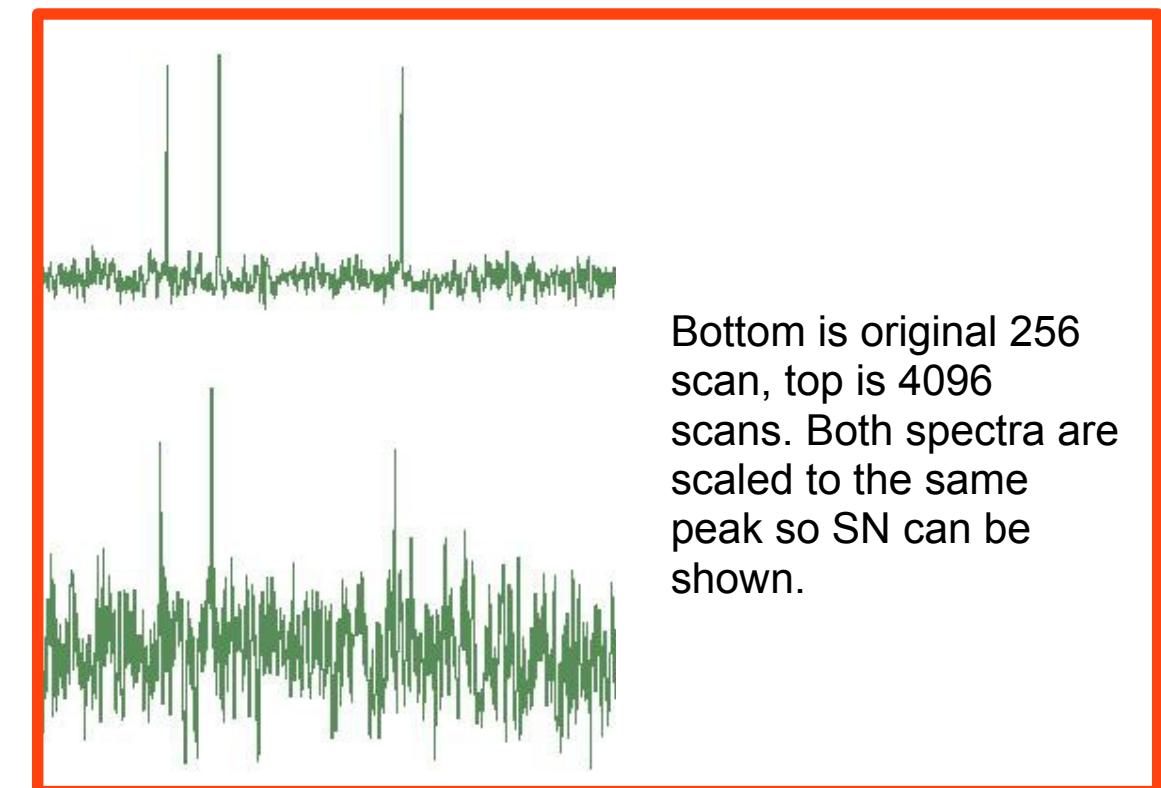
Overlays of <sup>13</sup>C spectra of 2-Ethyl-1-Indanone increasing from 4mM to 128mM by factors of 2. Expanded to show signal-to-noise, and scaled to solvent peak. The Left most set was collected on Waltz with standard paramters. The other set was collected on the Avance500 ColdProbe system with the same standard paramters. It is clear that the SN is much better in the same amount of time on the Avance500 system.

13C spectra of Dilution 3. 256 scans, about 19 minutes.



Option 3: Use the ColdProbe on the Avance500. Offers 4x the SN of most systems in the same amount of time.

Option 1: Increase the number of scans to increase SN. This is 4096 scans about 5hrs. 20+ hrs would be needed to double this SN.



Option 2: Use 2D's to get C13 assignments. This HSQC was acquired in less then 15 minutes, and the HMBC in about 45 minutes.

