

## Supporting information

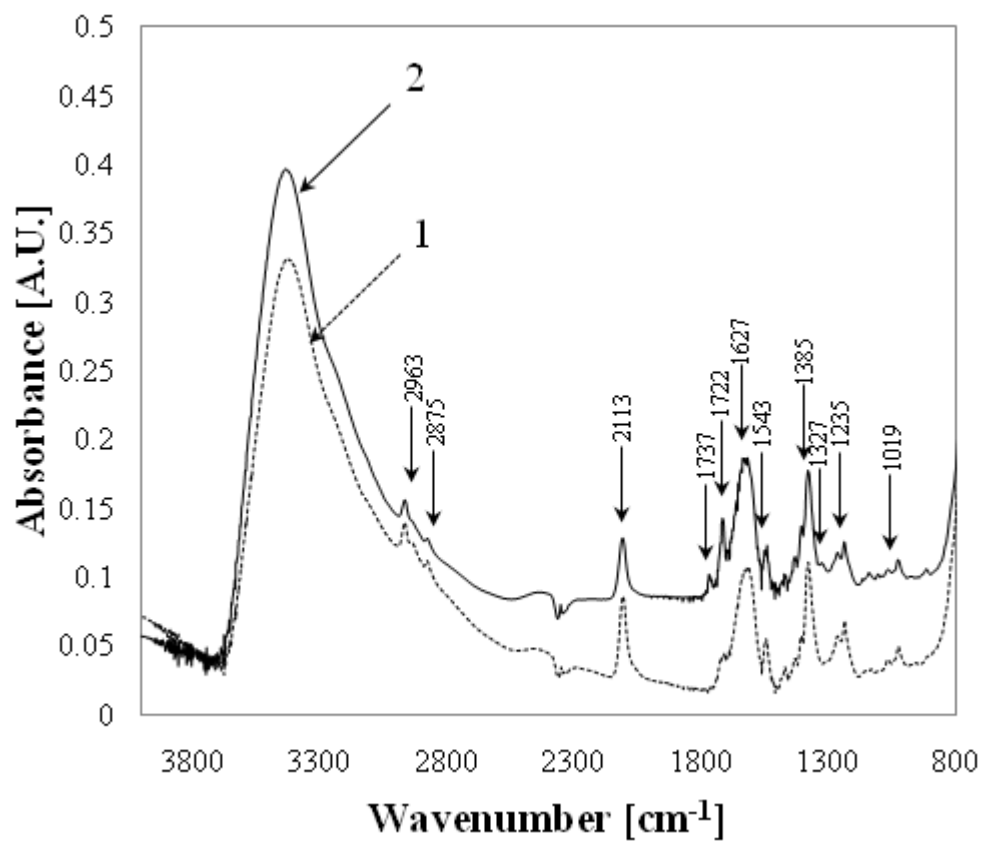


Fig. S1 Fourier Transform infrared (FT-IR) spectra of (1) N719 adsorbed on SnO<sub>2</sub> and (2) linearly linked N719-NcSn adsorbed on SnO<sub>2</sub>.