STD\_D1010\_012821\_256s\_100x100\_a --- NIR Spectrum --- H<sub>2</sub>O<sub>t, 3550</sub> Baseline **FTIR Spectrum**  $H_2O_{m,5200}$  Peak Height: 0.0086 ± 0.0001, S2N=12.12  $H_2O_{t,3550}$  Peak Height: 2.7109 ± 0.0016  $H_2O_{m,1635}$  Peak Height: 0.173 ± 0.003 --- H<sub>2</sub>O<sub>m, 5200</sub> Median Filtered —— H<sub>2</sub>O<sub>m, 1635</sub>  $OH_{4500}^{-}$  Peak Height: 0.0186 ± 0.0003, S2N=13.26 --- CO<sub>3,1515</sub> —— OH<sub>4500</sub> Median Filtered  $CO_{3.1515}^{2}$  Peak Height: 0.076 ± 0.003 0.40 --  $H_2O_{m,5200}$  Baseline --- CO<sub>3,1430</sub>  $CO_{3,1430}^{2-}$  Peak Height: 0.068 ± 0.004 —— OH<sub>4500</sub> Baseline — MC<sup>3</sup> Fit ω 0.35 --- Baseline ë 0.30 -ਊ 0.25 ₁ 0.20 -0.15 -5200 5000 4800 4600 4400 5400 0.05 ---- H<sub>2</sub>O<sub>m, 5200</sub> Baseline Subtracted —— OH<sub>4500</sub> Baseline Subtracted —— H<sub>2</sub>O<sub>m, 5200</sub> Kriged 0.04 —— OH<sub>4500</sub> Kriged ම 0.03 -육 0.02 · 0.01 -5200 5000 4800 4600 4400 4200 4000 3500 3000 2500 2000 1500 2400 2200 2000 1800 1600 1400 Wavenumber (cm<sup>-1</sup>) Wavenumber (cm<sup>−1</sup>) Wavenumber (cm<sup>-1</sup>)