



Supplementary Figure S2: Average intensity of (a.) calcium (Ca) and (b.) silicon (Si) from maps of standards at dwell times of 12, 60, and 120ms. Symbols represent different mineral standards. Known elemental concentration values for each standard are included in parentheses. There is a clear linear relationship between average element intensity of a map and dwell time ($R^2 \sim 1$) for all of the element/mineral combinations. The linear relationship holds true for the other element analyzed via EPMA (Al, Fe, Ti, etc.).