

## Supplementary Material

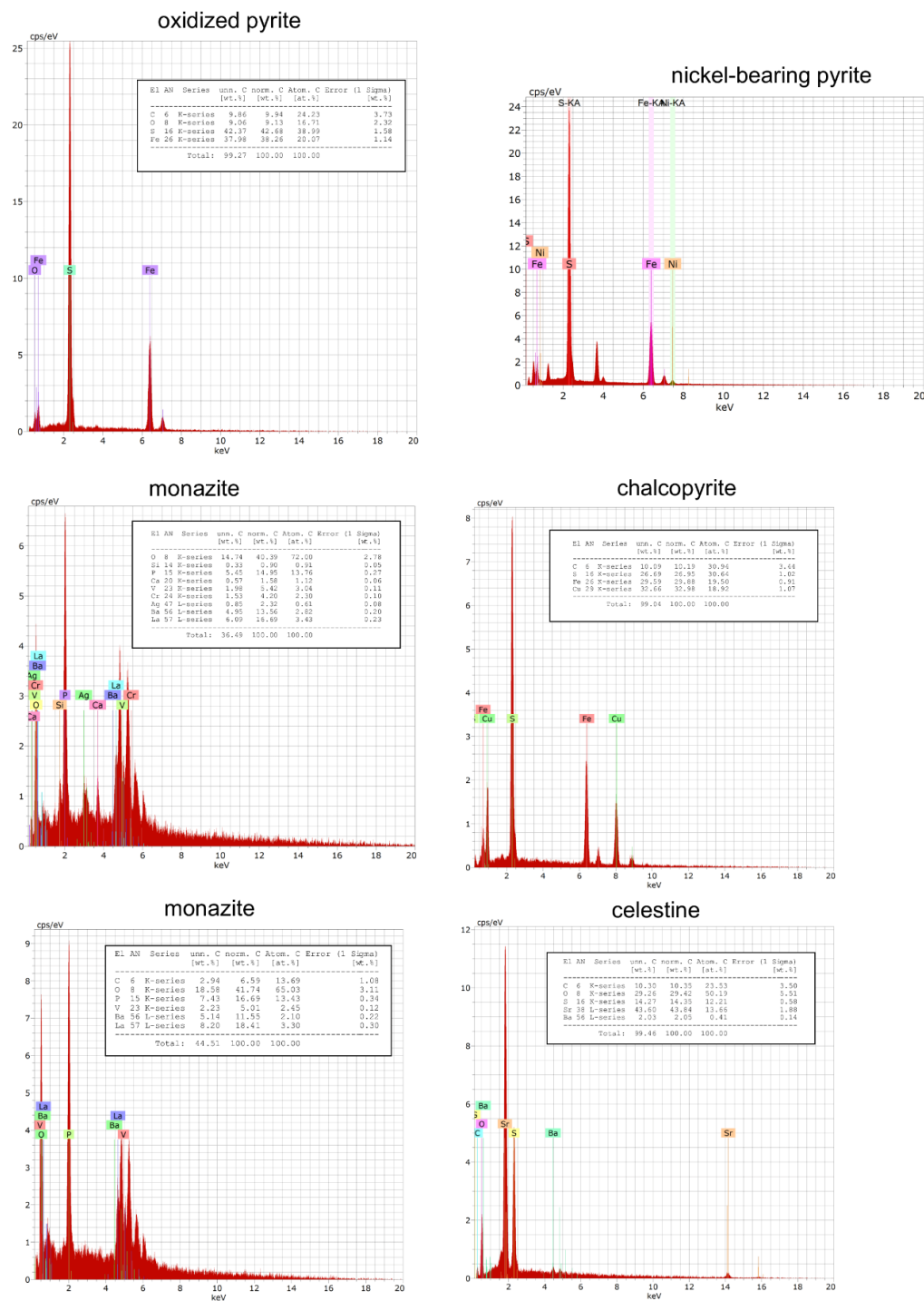


Figure S1. EDS Spectra for Figure 11.

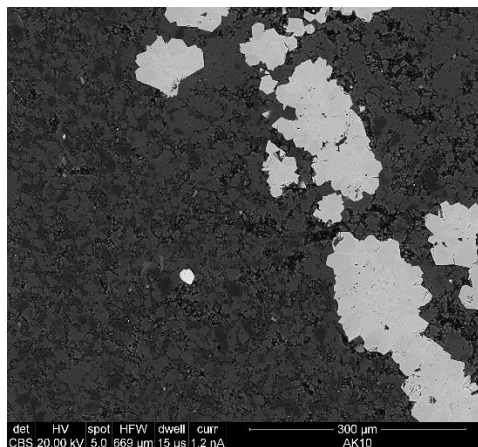
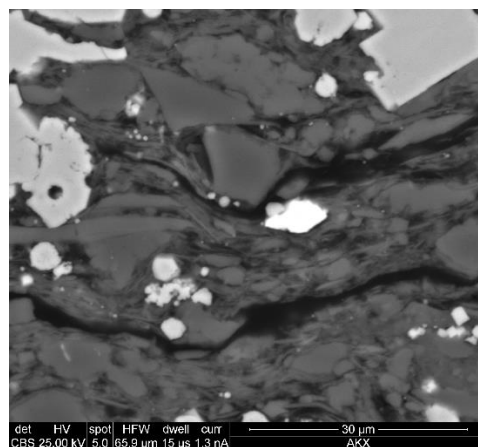
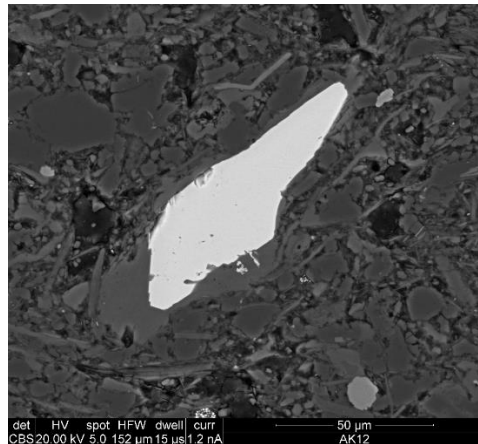


Figure S2. (Top, Backscatter SEM) Chalcopyrite grain with rutile in bottom right. (Middle, Backscatter SEM) Monazite grain (center of image). (Bottom, Backscatter SEM) Oxidized pyrite. Bright grain is chalcopyrite.