

Supplementary Materials: Additional Figures and Tables

Table S1. Dwell times for elements analyzed by LA-ICP-MS for both galena and sphalerite.

Mass	Time (ms)	Mass	Time (ms)
²⁹ Si	1	⁷⁷ Se	25
³⁴ S	15	¹⁰⁹ Ag	15
⁵⁵ Mn	20	¹¹¹ Cd	10
⁵⁷ Fe	10	¹¹⁵ In	25
⁵⁹ Co	15	¹¹⁸ Sn	25
⁶⁰ Ni	15	¹²¹ Sb	20
⁶⁵ Cu	15	²⁰² Hg	20
⁶⁷ Zn	10	²⁰⁵ Tl	25
⁶⁹ Ga	20	²⁰⁸ Pb	15
⁷⁴ Ge	20	²⁰⁹ Bi	20
⁷⁵ As	20		

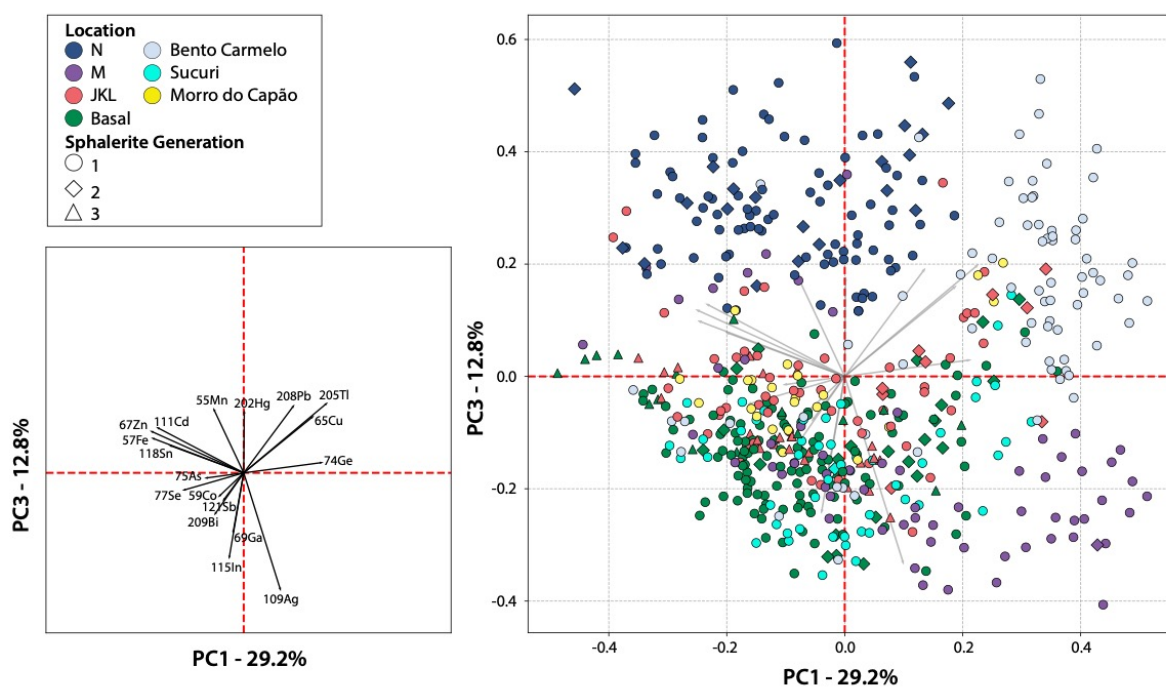


Figure S1. Plot of sphalerite analyses in PC1 (29.2%) vs. PC3 (12.8%) and associated element components.

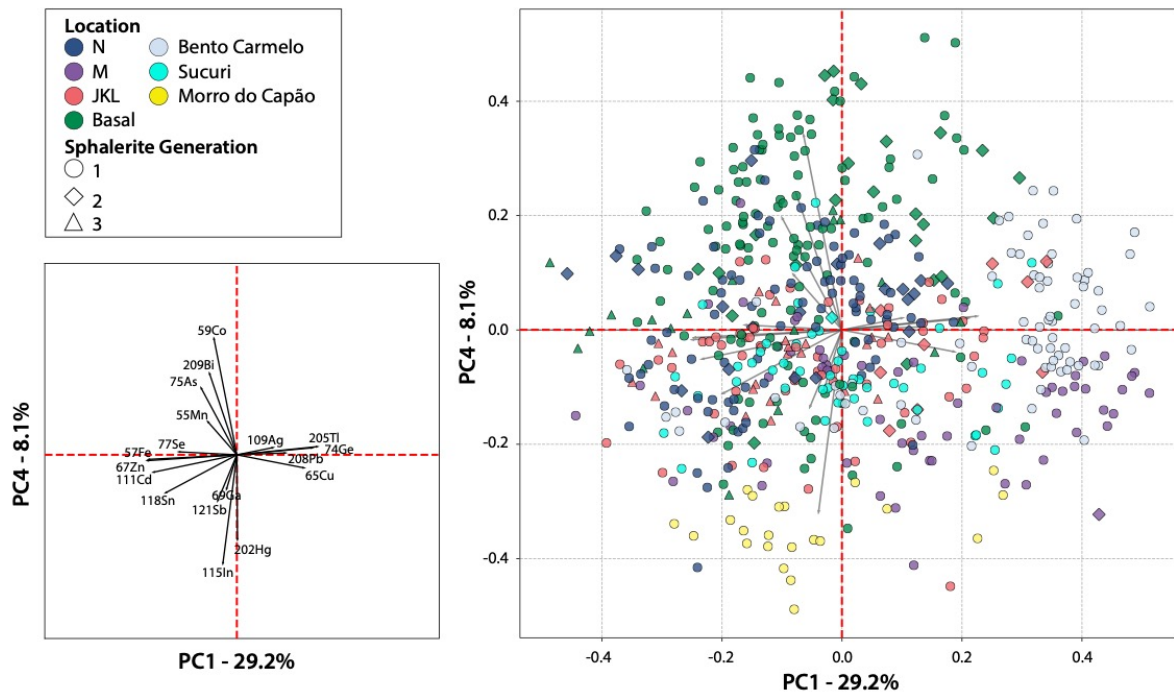


Figure S2. Plot of sphalerite analyses in PC1 (29.2%) vs. PC4 (8.1%) and associated element components.

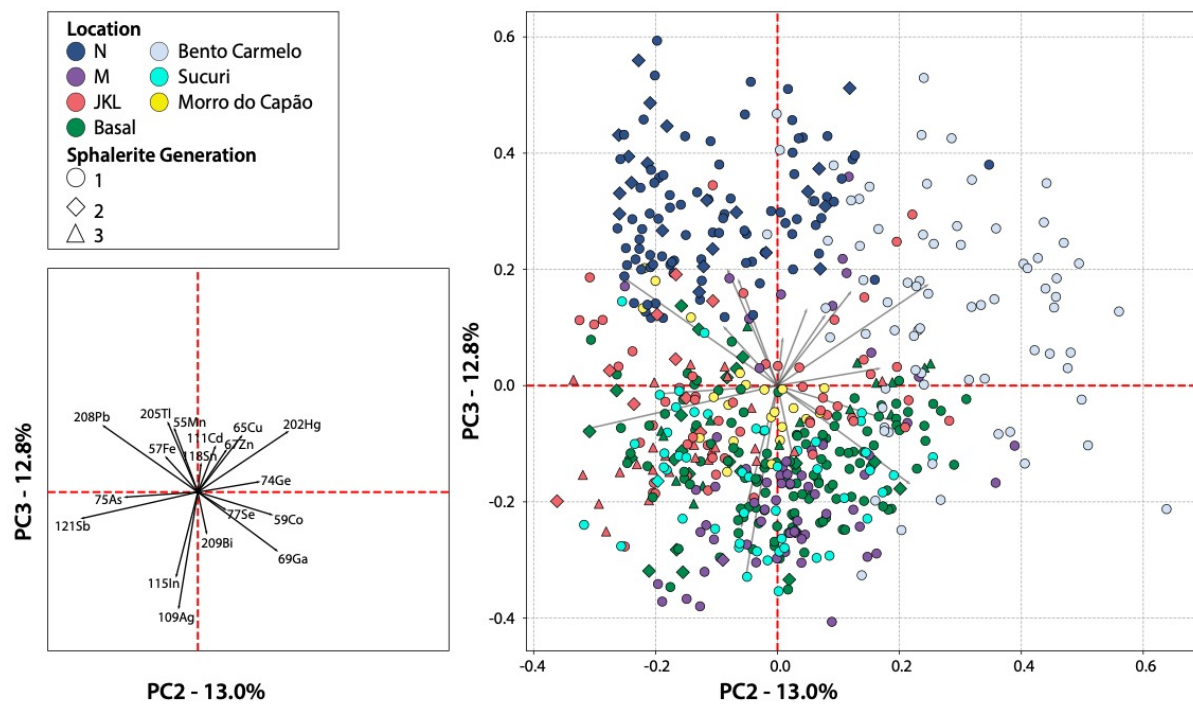


Figure S3. Plot of sphalerite analyses in PC2 (13.0%) vs. PC3 (12.8%) and associated element components.

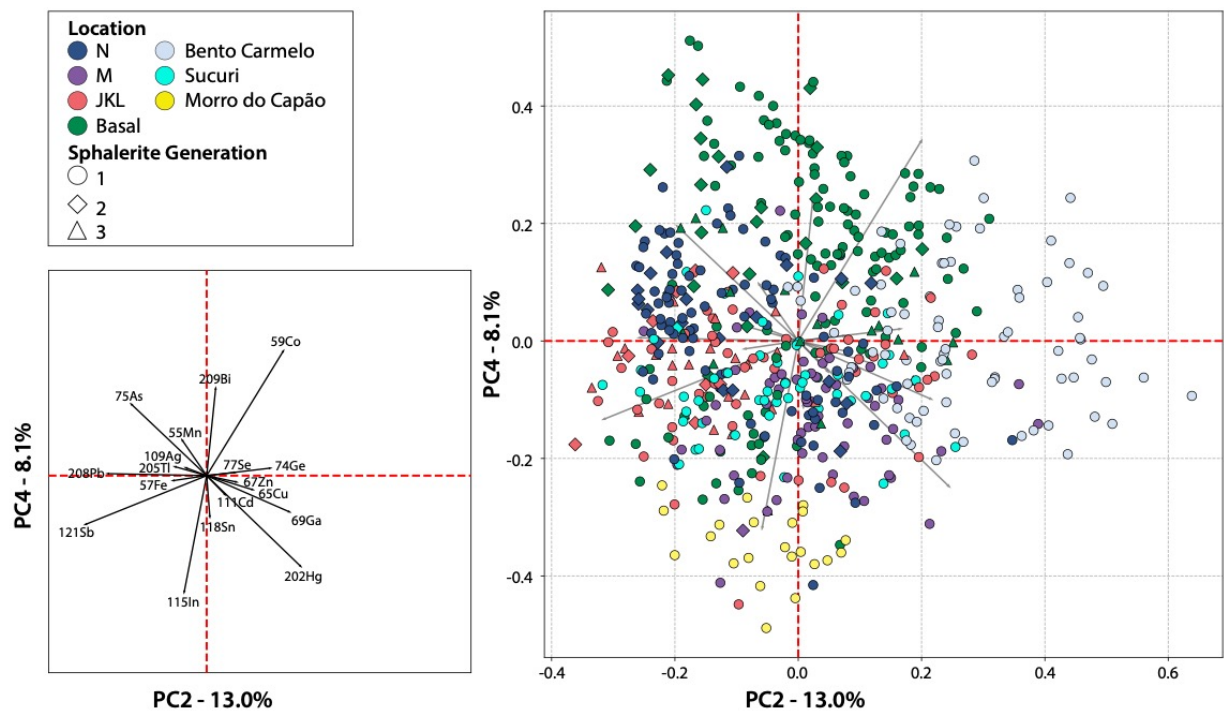


Figure S4. Plot of sphalerite analyses in PC2 (13.0%) vs. PC4 (8.1%) and associated element components.

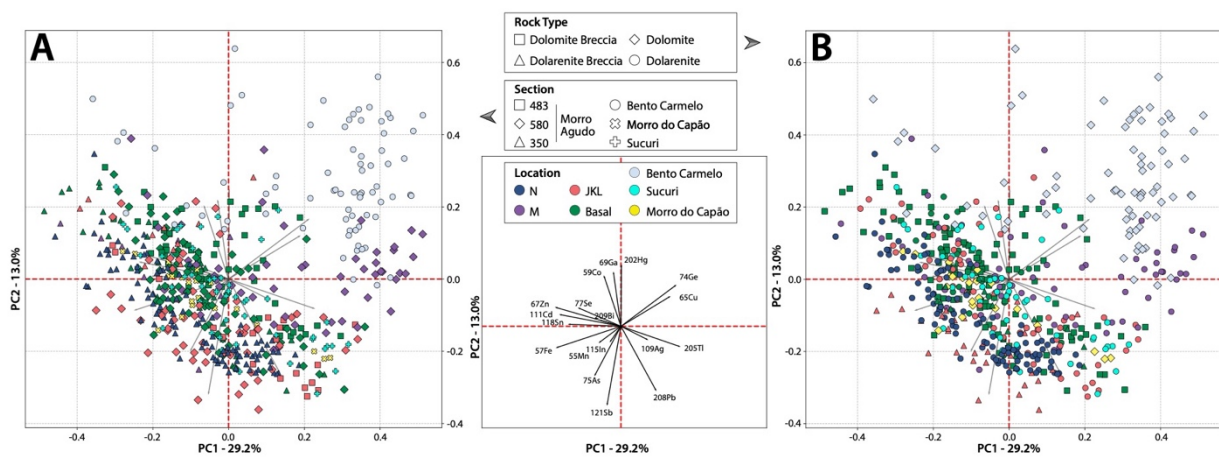


Figure S5. PC1 vs. PC2 of sphalerite analyses showing the distribution from the Morro Agudo District by (A) section of the Morro Agudo deposit, and (B) host rock type.