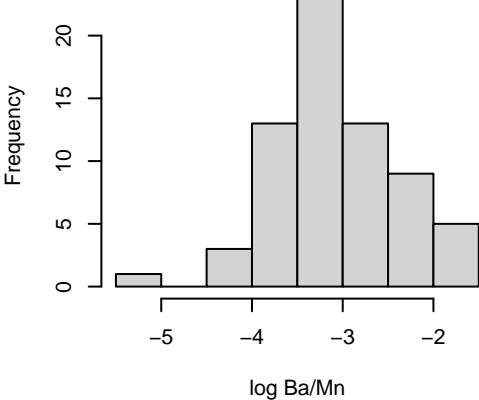
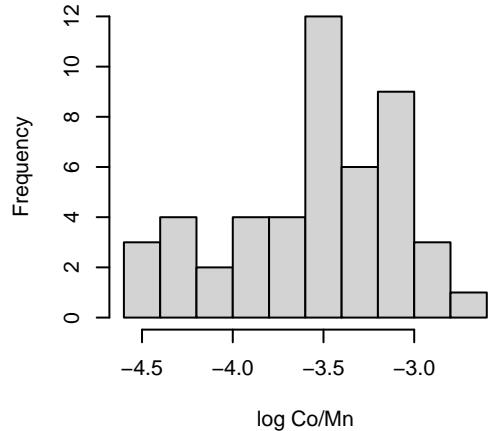


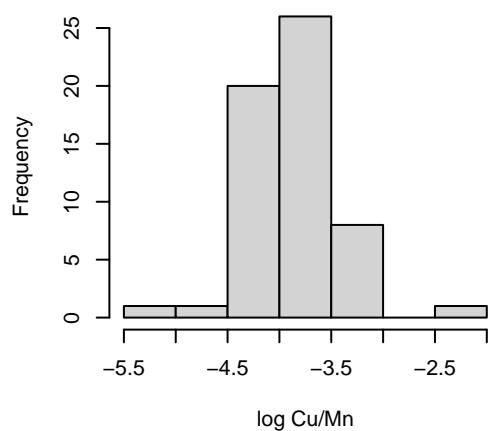
W = 0.9687, p = 0.08503



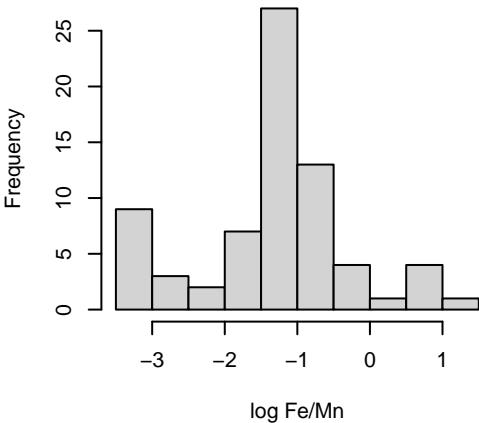
W = 0.9357, p = 0.01115



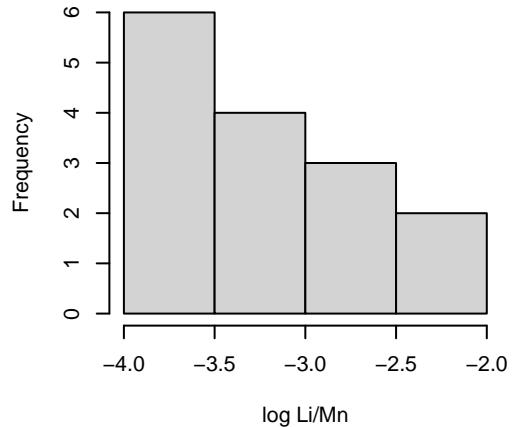
W = 0.9672, p = 0.1245



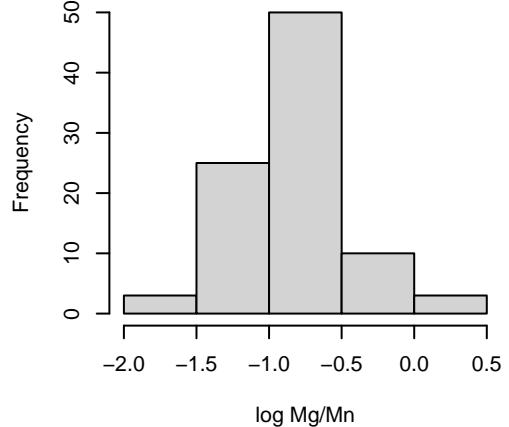
W = 0.9135, p = 0.000124



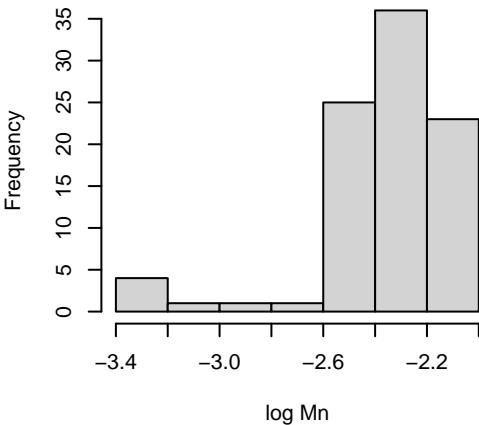
W = 0.893, p = 0.07433



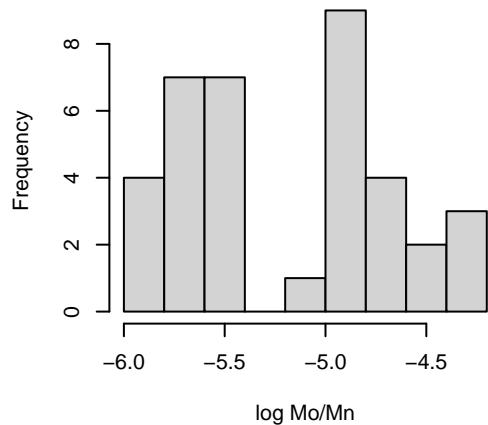
W = 0.9624, p = 0.01002



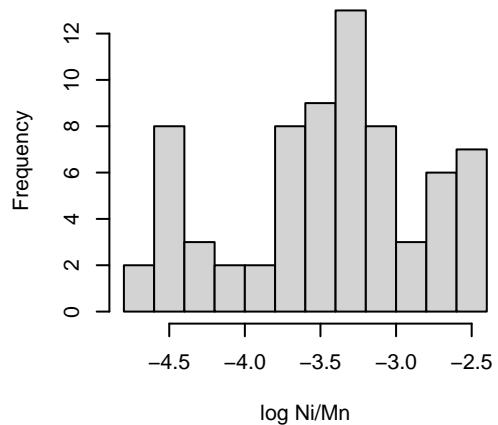
W = 0.7696, p = 1.243e-10



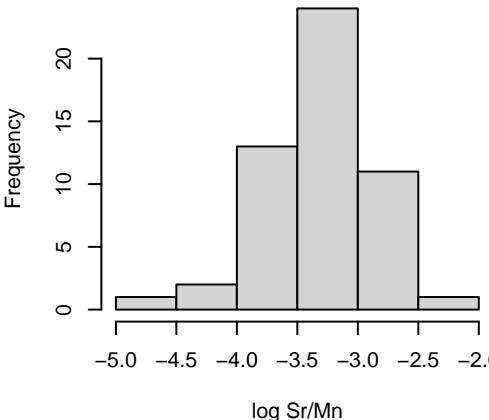
W = 0.8953, p = 0.002194



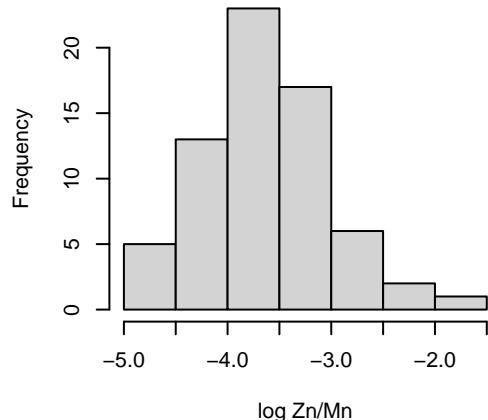
W = 0.9421, p = 0.002639



W = 0.9763, p = 0.3821



W = 0.9673, p = 0.07487



Supplementary Figure 3.
Shapiro-Wilk test for the log normal distribution of moles per kg Mn and trace elements (Ba, Co, Cu, Fe, Li, Mg, Mo, Ni, Sr, Zn) normalized to Mn in carbonates. W values above 0.9 are indicative of a log normal distribution and p-values less than 0.05 indicate the null hypothesis can be rejected.