A two-stage column protocol for the separation of Cu from geological material and high-precision Cu isotopic analysis on MC-ICP-MS

Fig. S1 Elution curves of the Cu purification procedures using Cu-selective resin in different concentration of HNO_3.
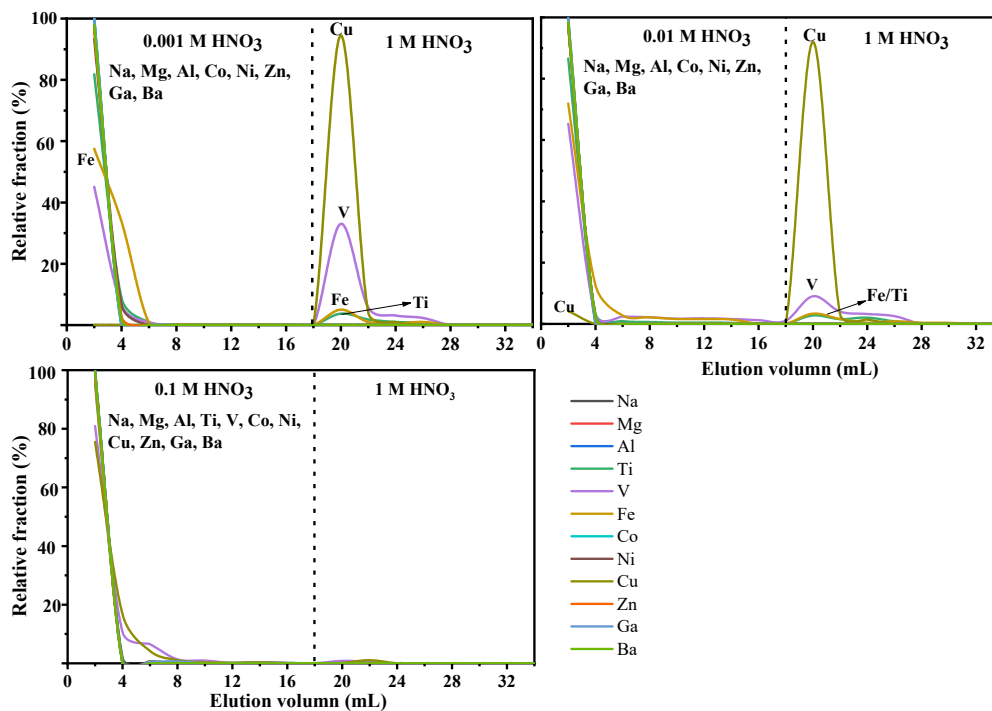
Fig. S2 Elution curves of the Cu purification procedures using Cu-selective resin in different concentration of HCl.
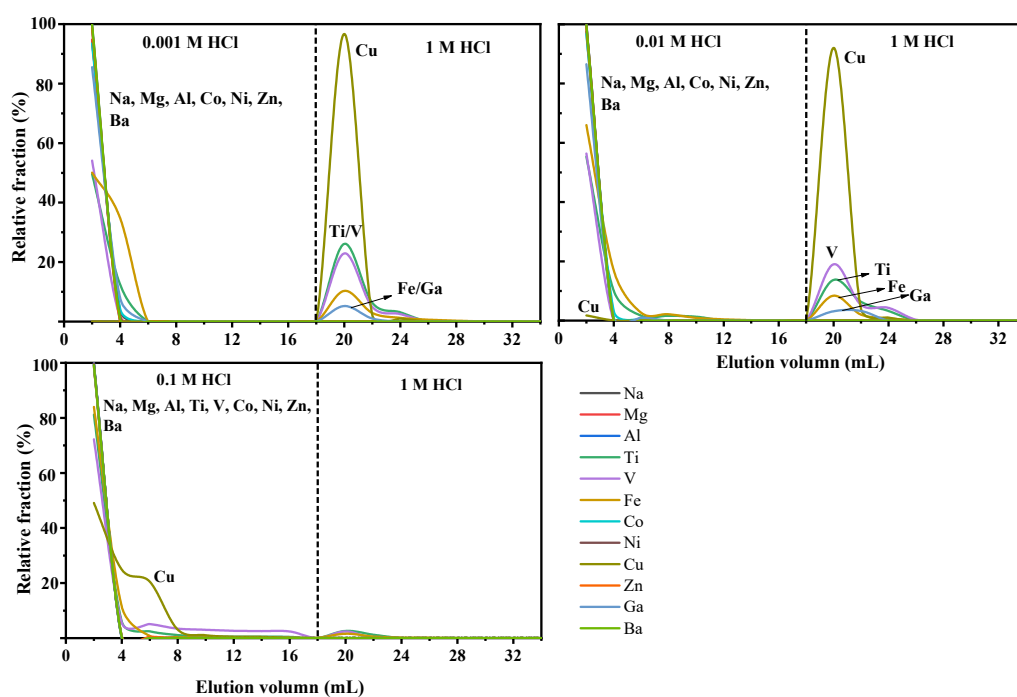
Fig. S3 Elution curves of the Cu purification procedures using Cu-selective resin in different flow rate. The flow rate of (a) was 0.3 mL min^{-1}, while (b) is 0.08 mL min^{-1}.
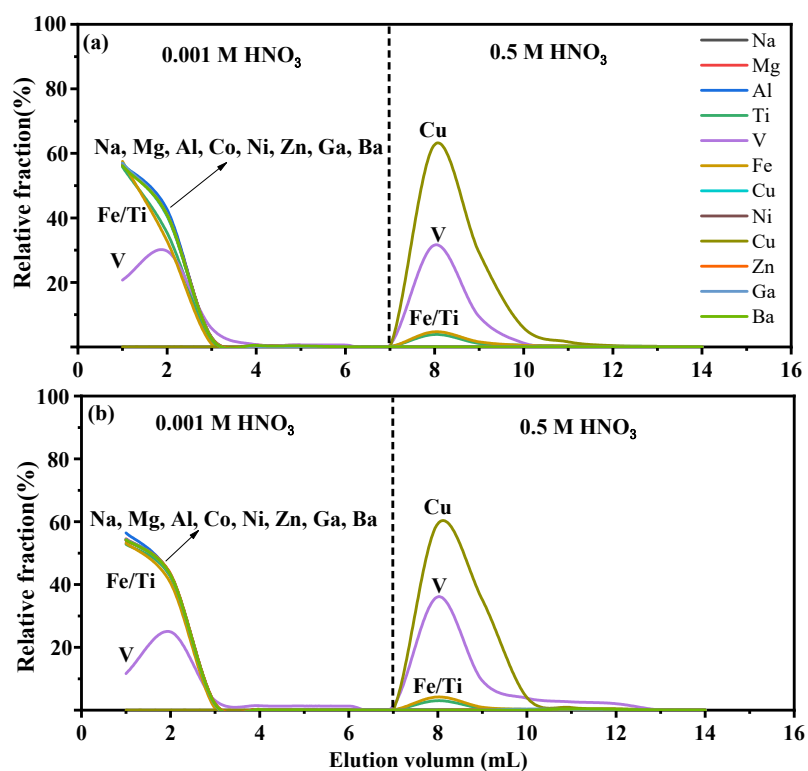
Fig. S4 Measurement of standard solutions (a) NUW-Cu-A and (b) NUW-Cu-B, and the purified (c) BHVO-2 using Zn doping method ($Zn_{SRM\ 3168a}$). Error bars represent 2 standard errors of each measurement. The horizontal line represents the mean $\delta^{65}Cu$ value. The grey area represents twice the standard deviation of the $\delta^{65}Cu$ value of NWU-Cu-A, NWU-Cu-B and BHVO-2.