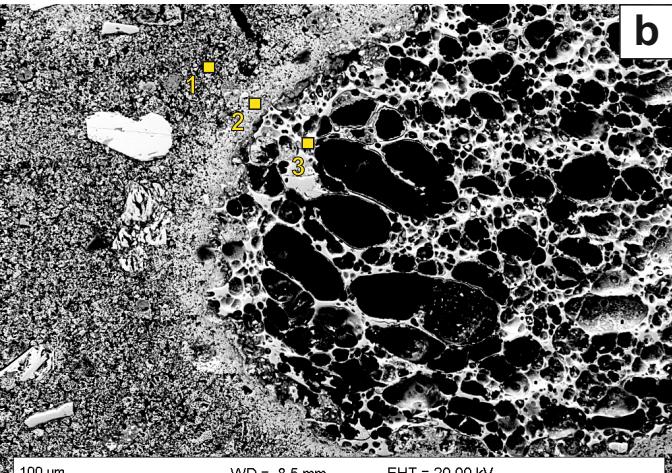
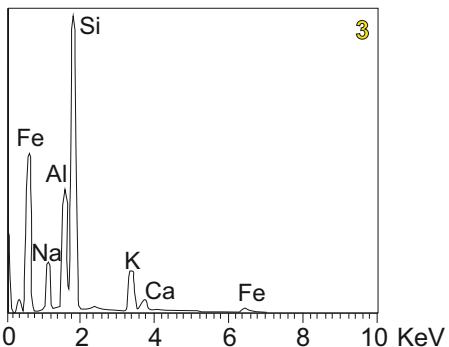
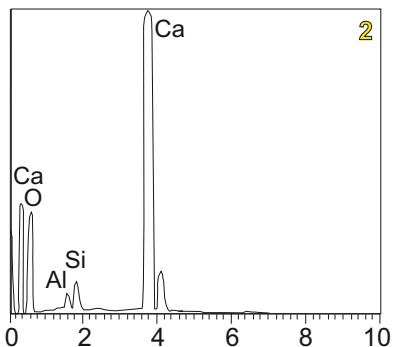
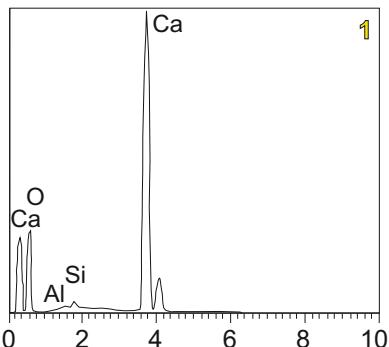


WD = 8.5 mm EHT = 20.00 kV  
Signal A = NTS BSD Mag = 66 X



WD = 8.5 mm EHT = 20.00 kV  
Signal A = NTS BSD Mag = 123 X



**Figure S1.** a) Reaction rim around a pumice in the sample AB6; b) detail of the reaction rim and EDS spectra of lime binder (spectrum 1), rim around the pumice (spectrum 2) and pumice (spectrum 3)