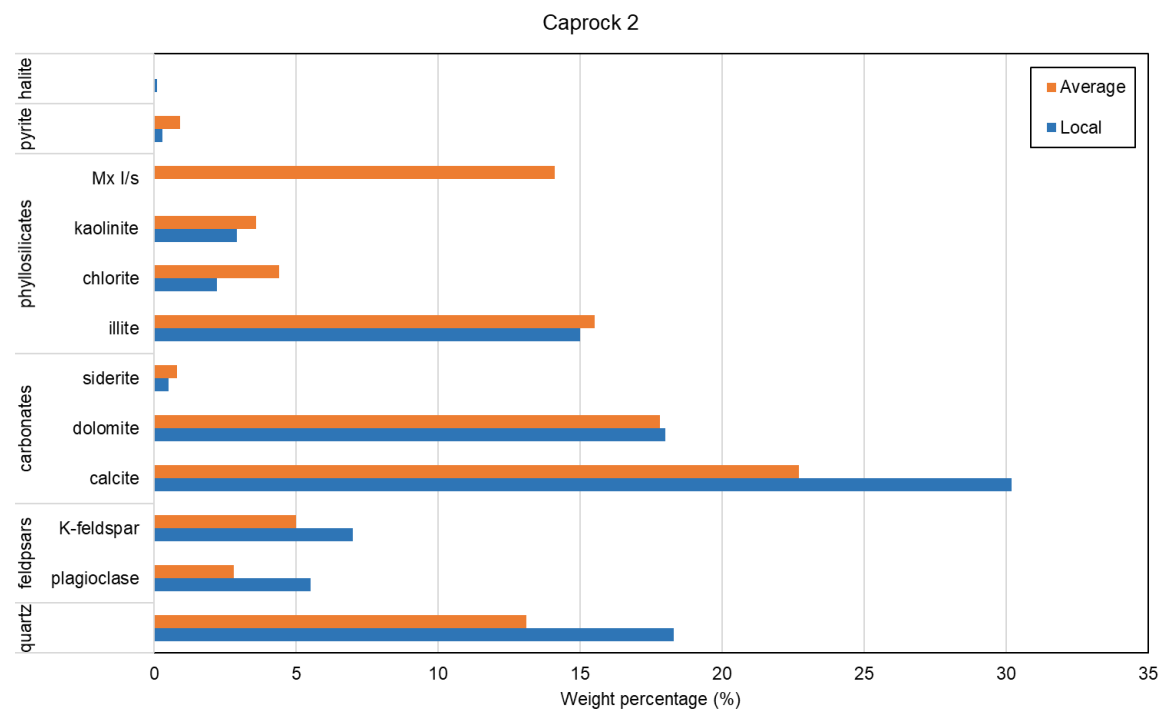


(a)



(b)

Figure S1: Semi-quantitative evaluation of the main classes of minerals for Caprock1 (a) and Caprock2 (b) from X-Ray Diffraction (XRD).

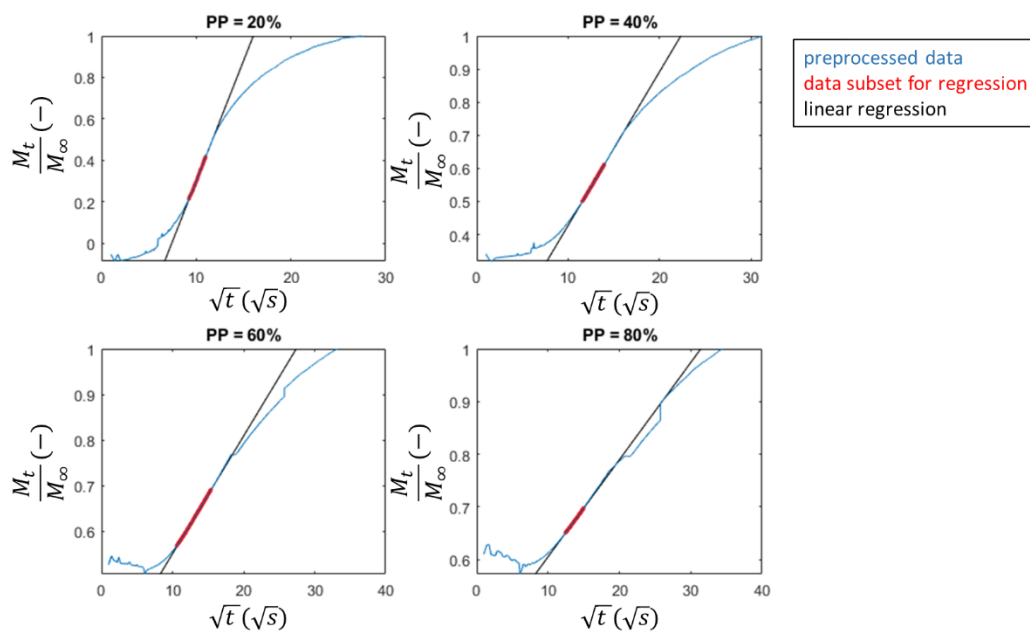


Figure S2: Interpretation of test F6_H2_100_a.

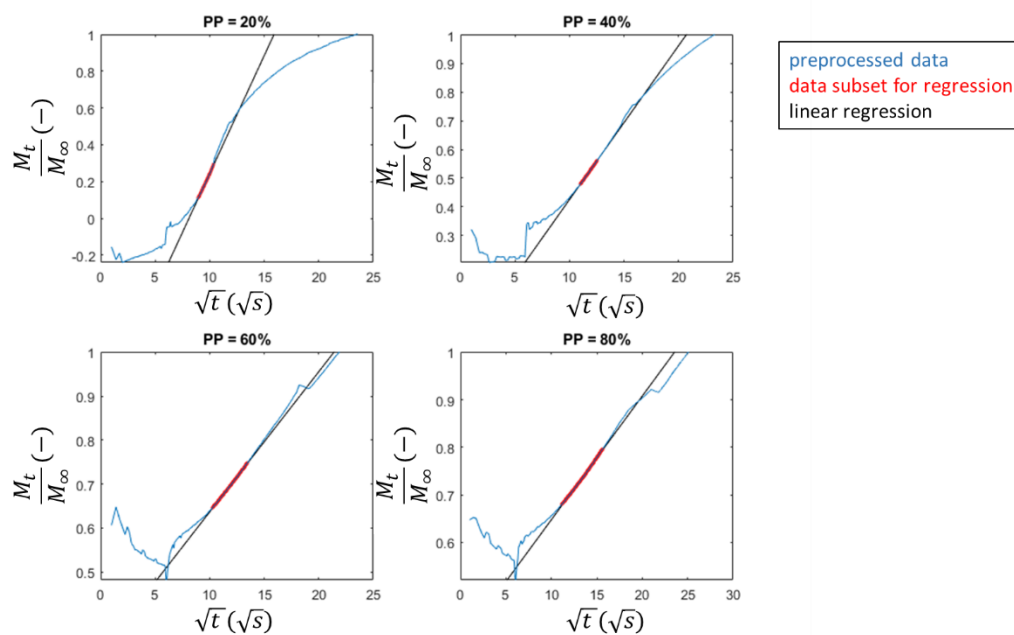


Figure S3: Interpretation of test FR2_H2_100_a.