



## Supplement of

## U and Th content in magnetite and Al spinel obtained by wet chemistry and laser ablation methods: implication for (U–Th) / He thermochronometer

Marianna Corre et al.

Correspondence to: Marianna Corre (marianna.corre@univ-grenoble-alpes.fr)

The copyright of individual parts of the supplement might differ from the article licence.

## **Supplementary Data**

## S1. XRD data

0.125 g of powders from IF-G, RB, Al-Spl and NMA samples were analyzed by XRD to quantify the mineralogical phases present. Figures S1 to S4 present the XRD diffractograms and the quantification of the phases in % estimated with the Profex software (Döbelin version 5.0.1):

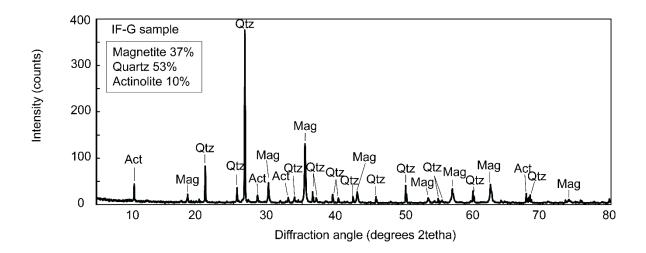


Figure S1. XRD diffractogram of IF-G sample, where quartz, magnetite and actinolite phases are identified.

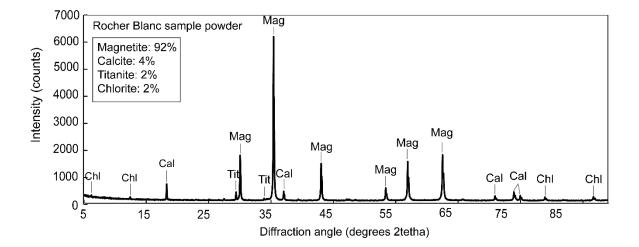


Figure S2. XRD diffractogram of powder of RB sample, that is composed of magnetite, calcite, titanite, chlorite

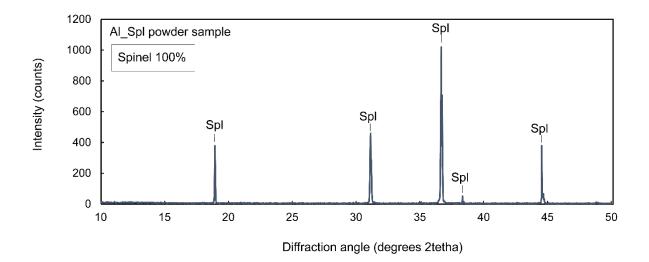


Figure S3. XRD diffractogram of powder of Al\_Spl sample, composed of pure spinel.

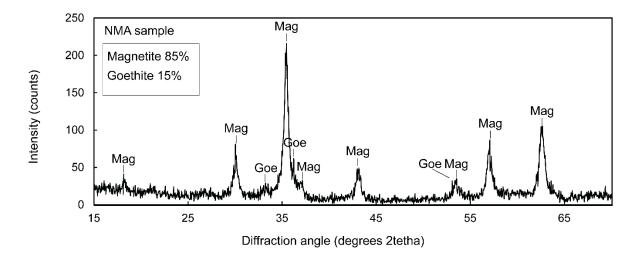


Figure S4. XRD diffractogram of NMA sample composed of magnetite and goethite.