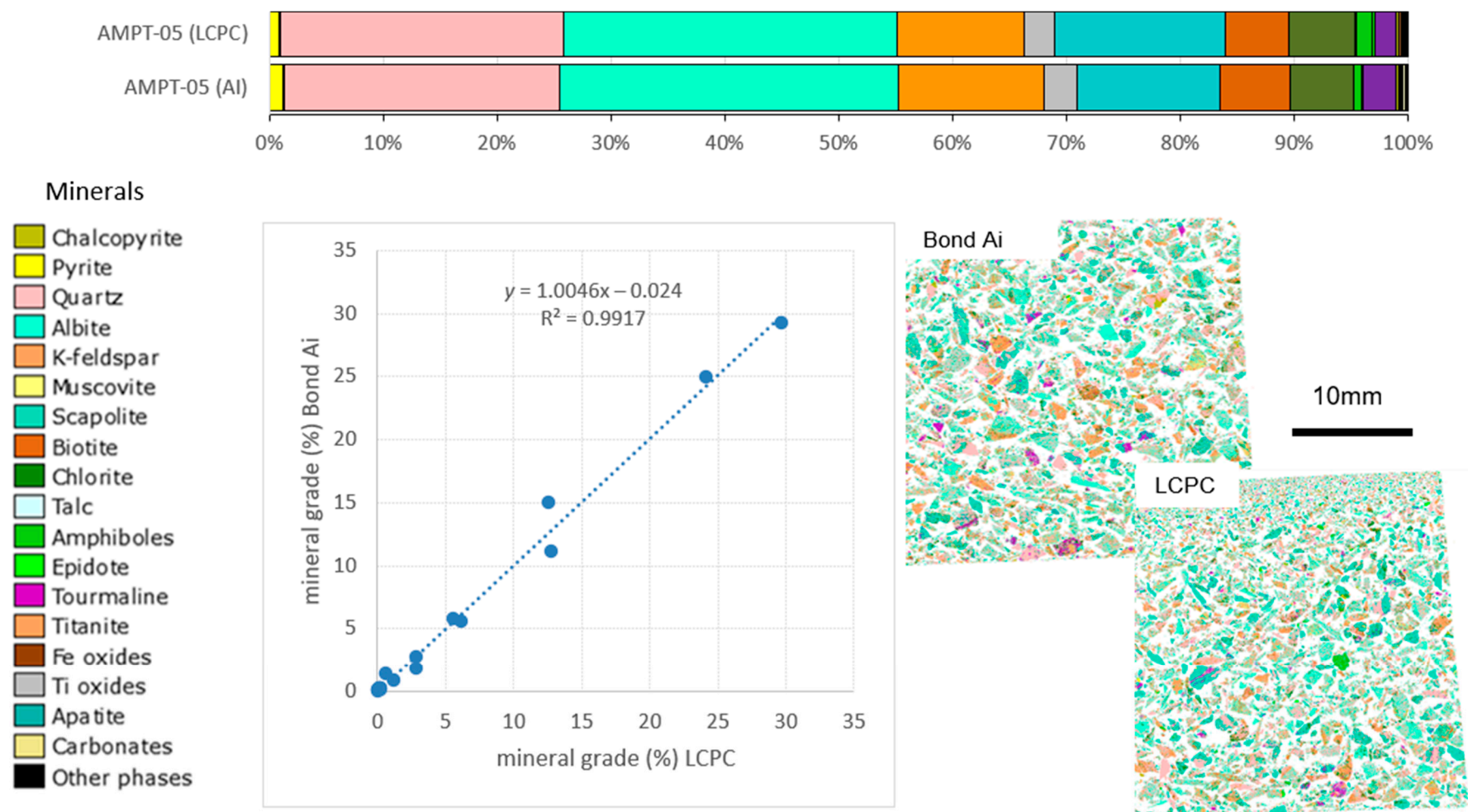


# **Supplementary Materials: Determination of Abrasiveness in Copper-Gold Sulfide Ores: A Contribution to the Geometallurgical Model of the Sossego Deposit**

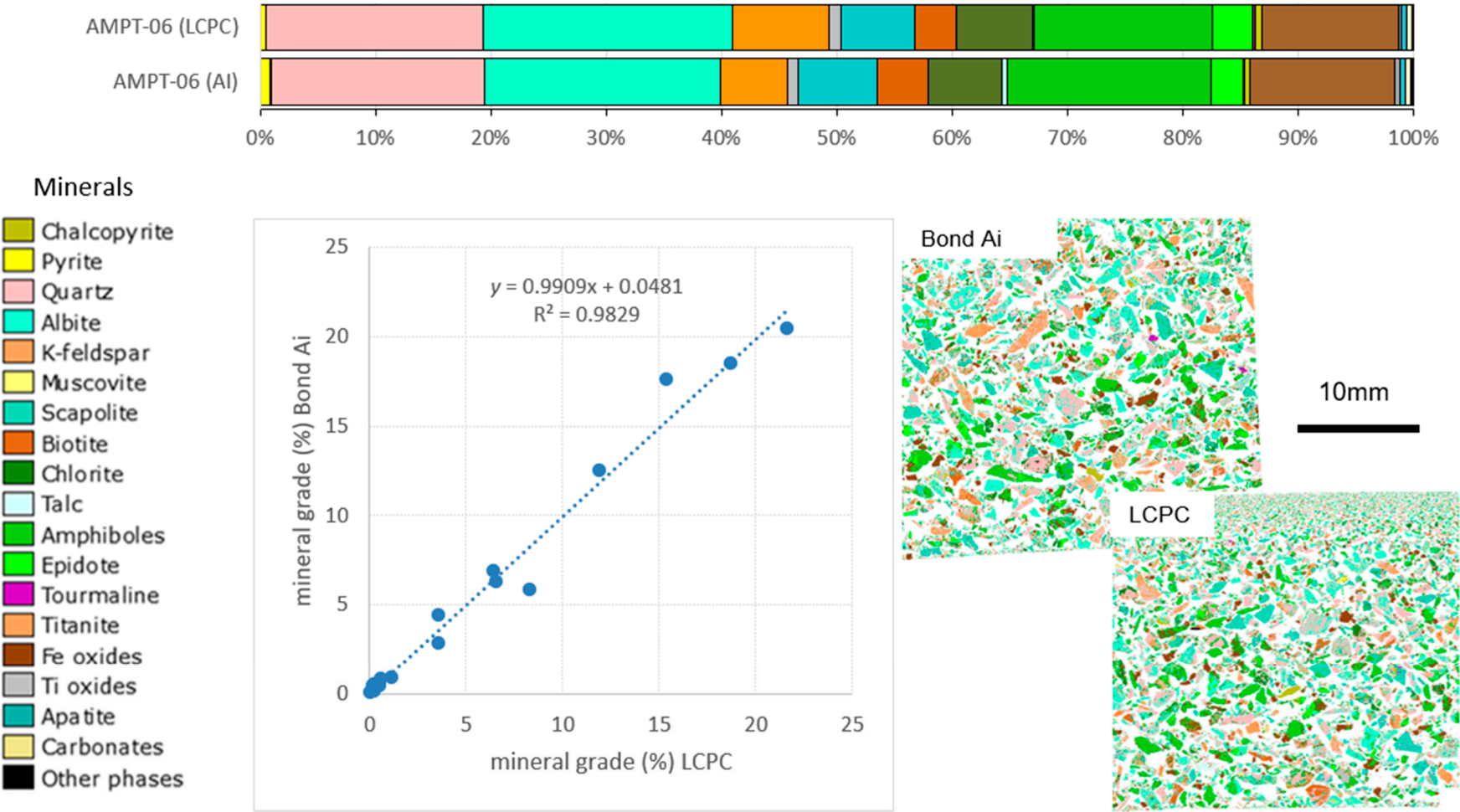
**Petterson de Azevedo Barbosa, Maurício Guimarães Bergerman, Elisabeth da Fonseca and Rogerio Kwitko-Ribeiro**

The data presented in the Supplementary Materials, Figures S1 to S36, includes the detailed results of the mineralogical analysis of the samples used for Bond Ai and LCPC tests, including the quantitative mineralogy, the QEMSCAN® images, and a correlation graph of the mineral grade results for each pair of samples.

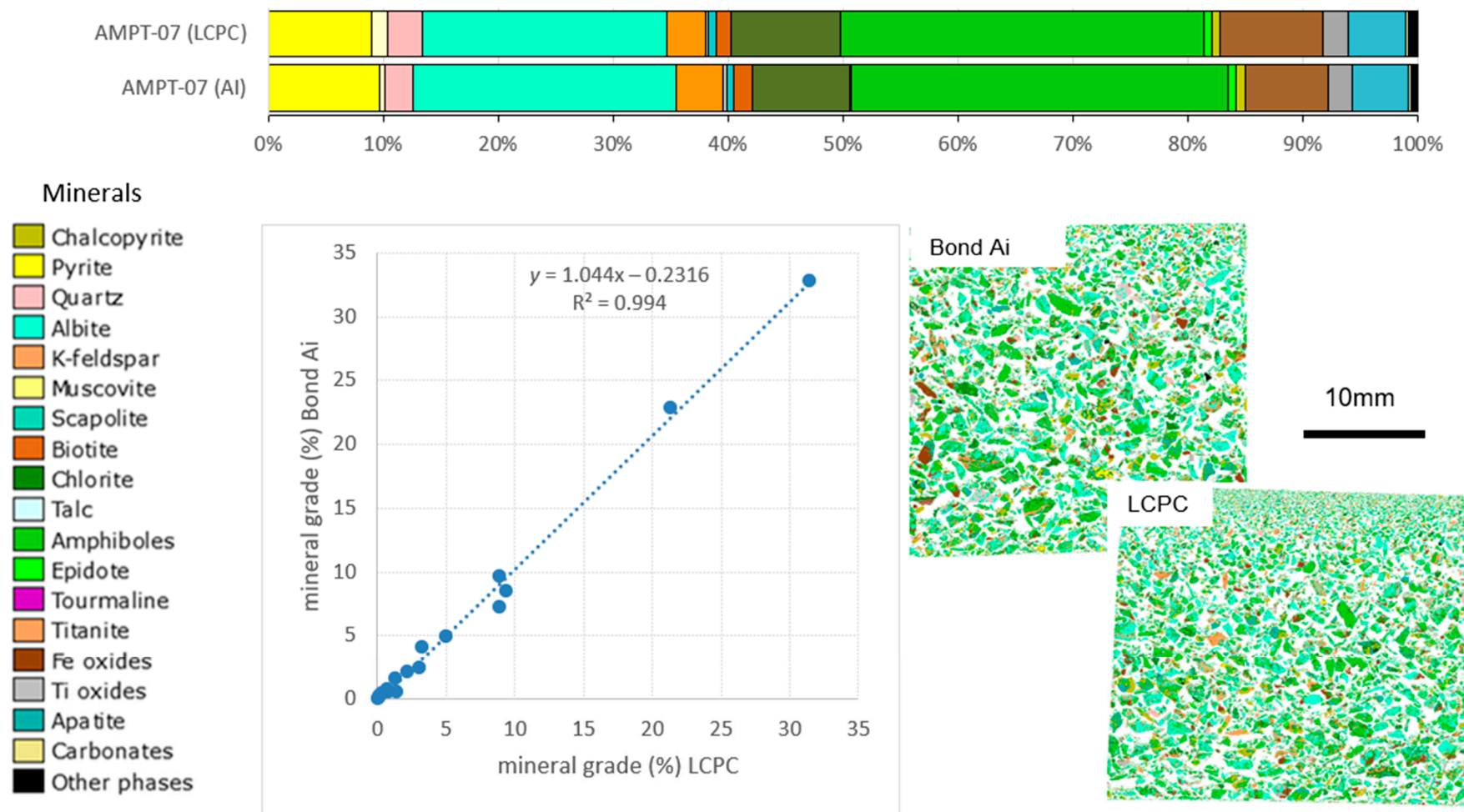


**Figure S1.** Mineral distribution chart of AMPT-05 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

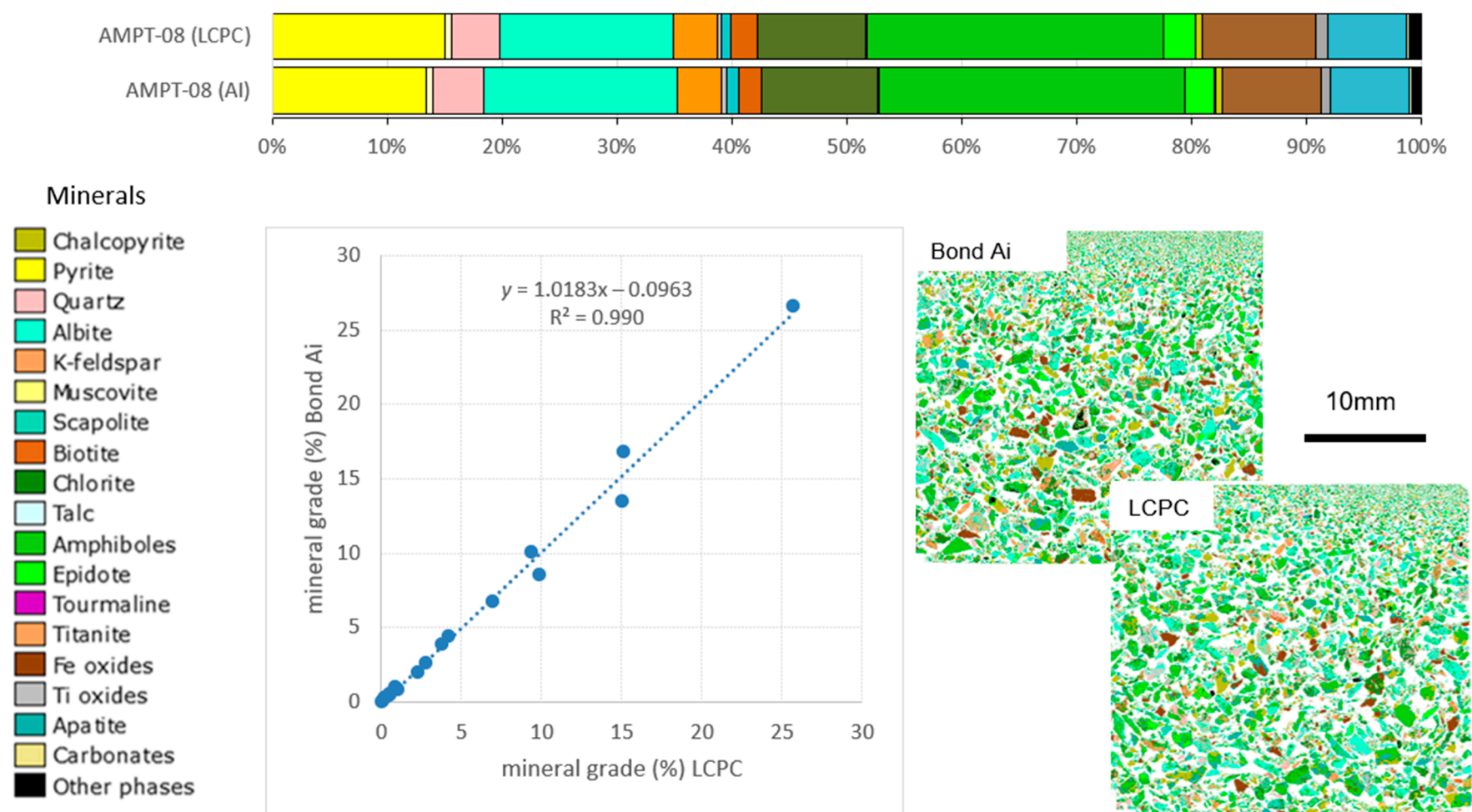




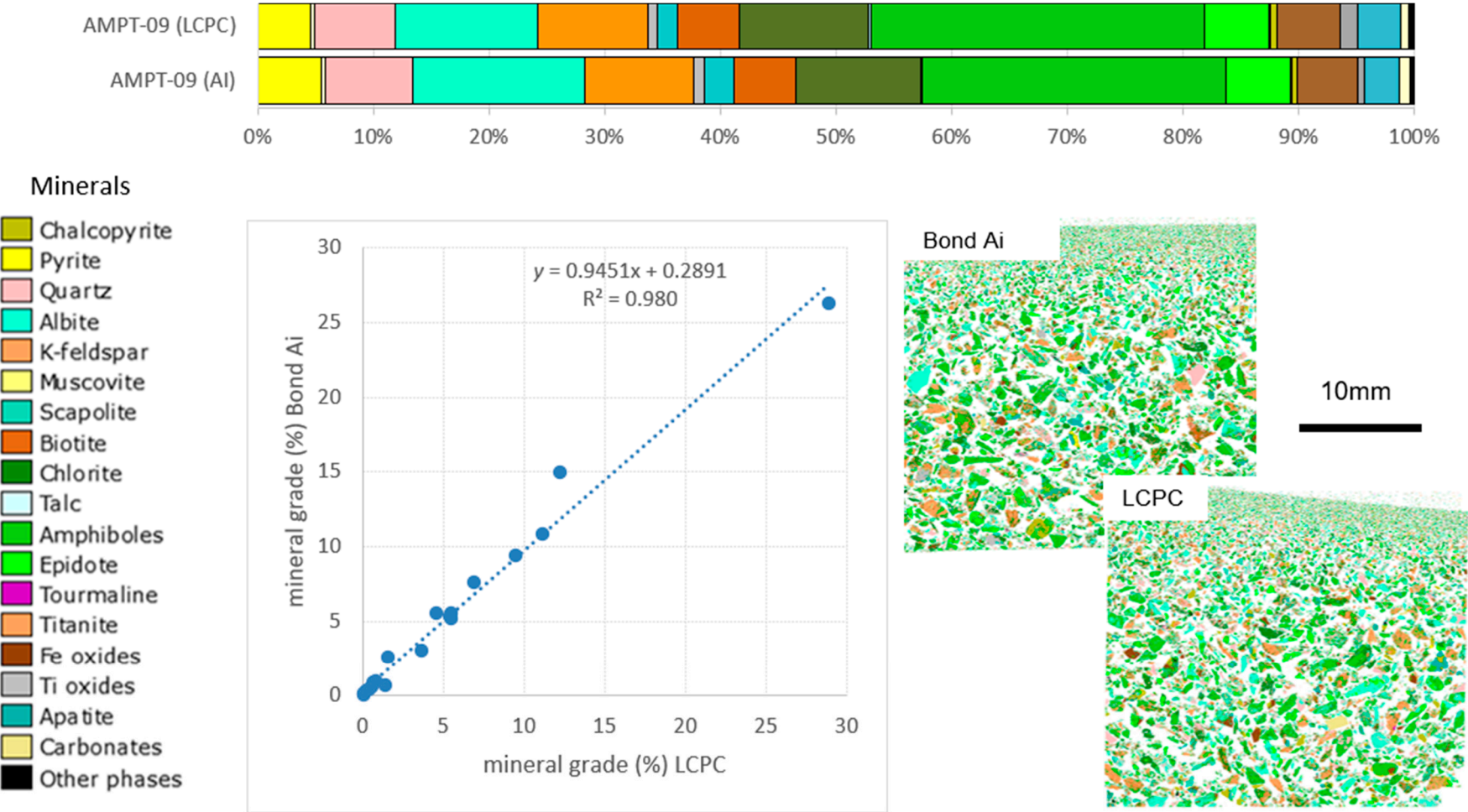
**Figure S2.** Mineral distribution chart of AMPT-06 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.



**Figure S3.** Mineral distribution chart of AMPT-07 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

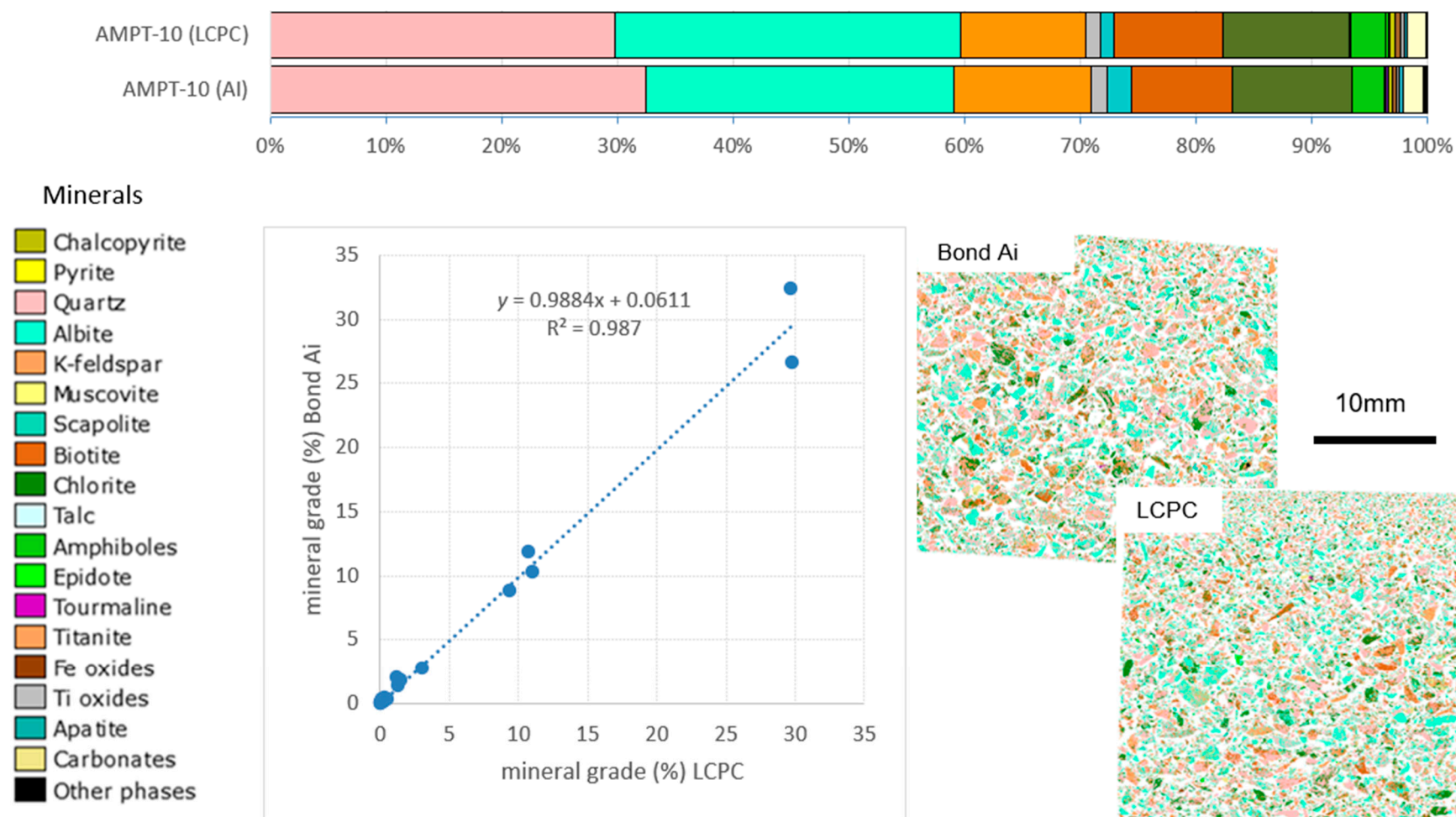


**Figure S4.** Mineral distribution chart of AMPT-08 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

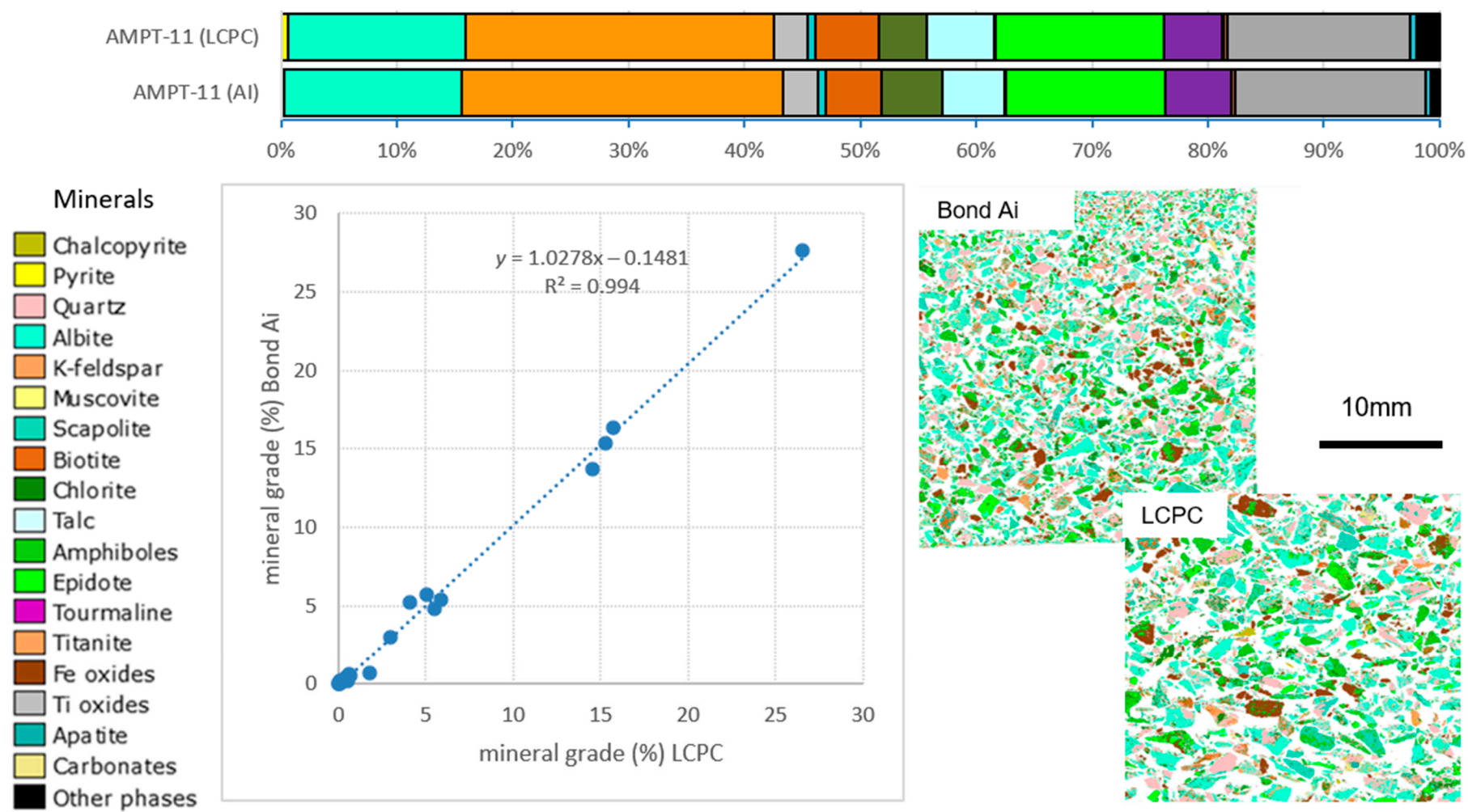


**Figure S5.** Mineral distribution chart of AMPT-09 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

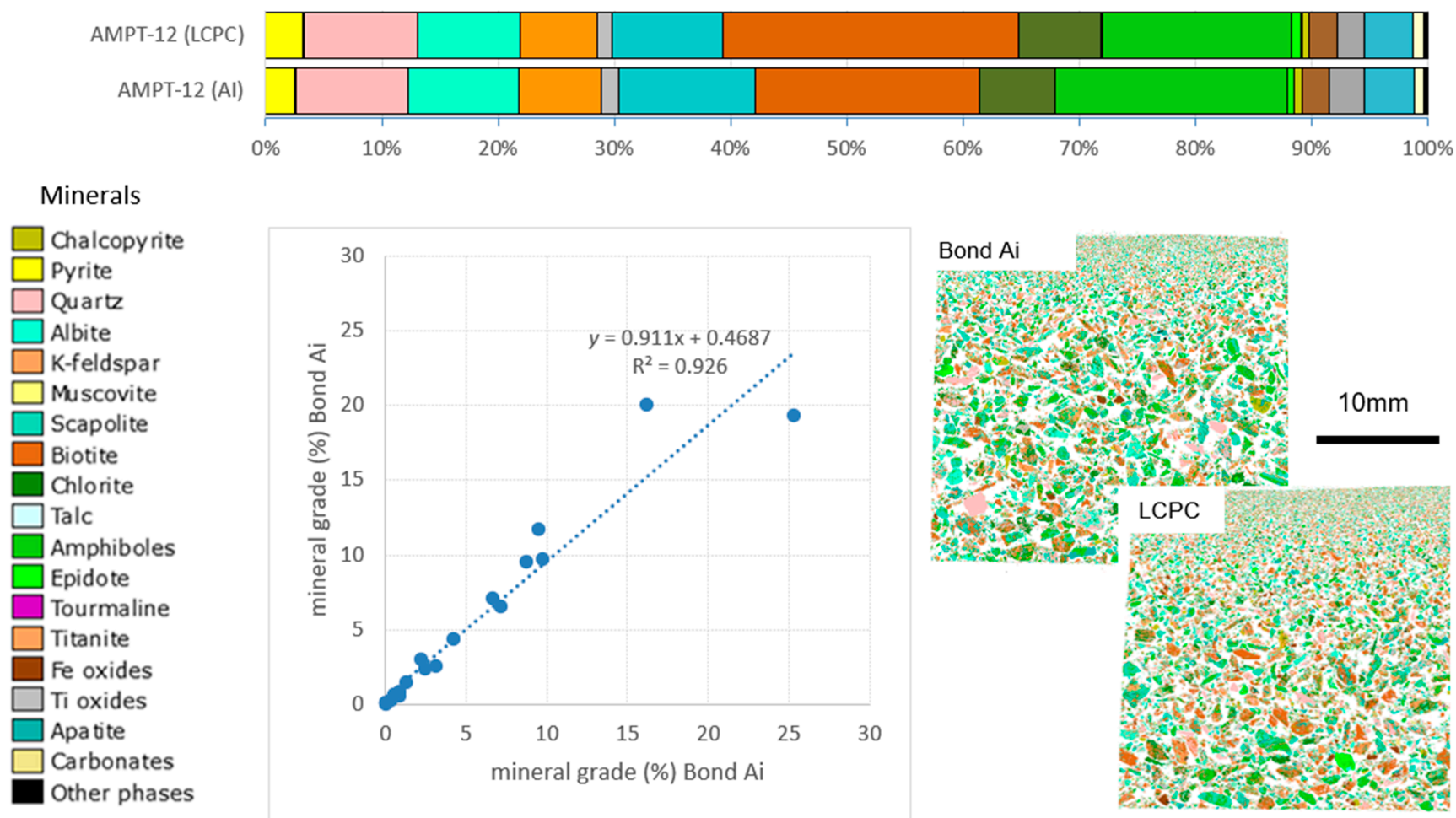




**Figure S6.** Mineral distribution chart of AMPT-10 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

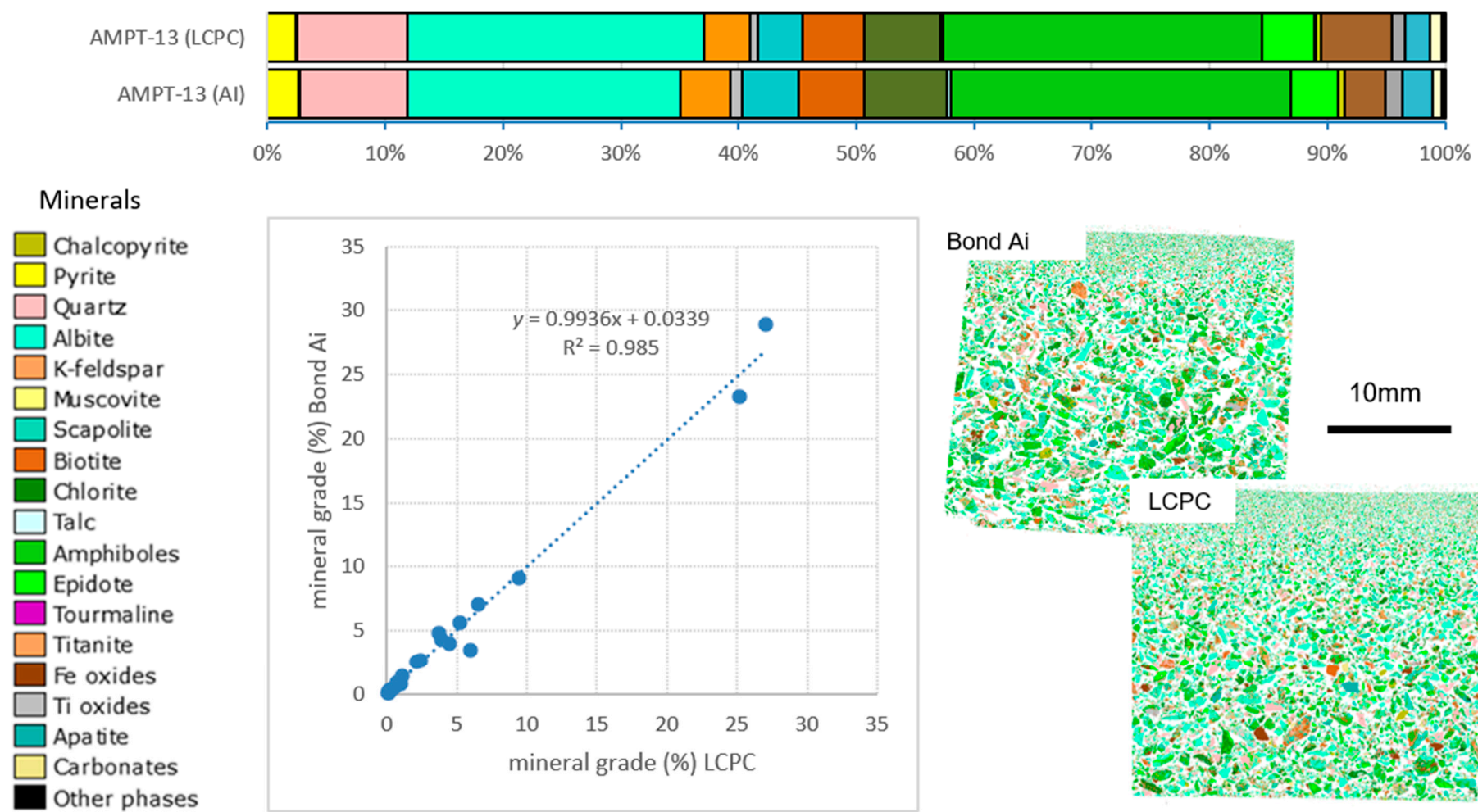


**Figure S7.** Mineral distribution chart of AMPT-11 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

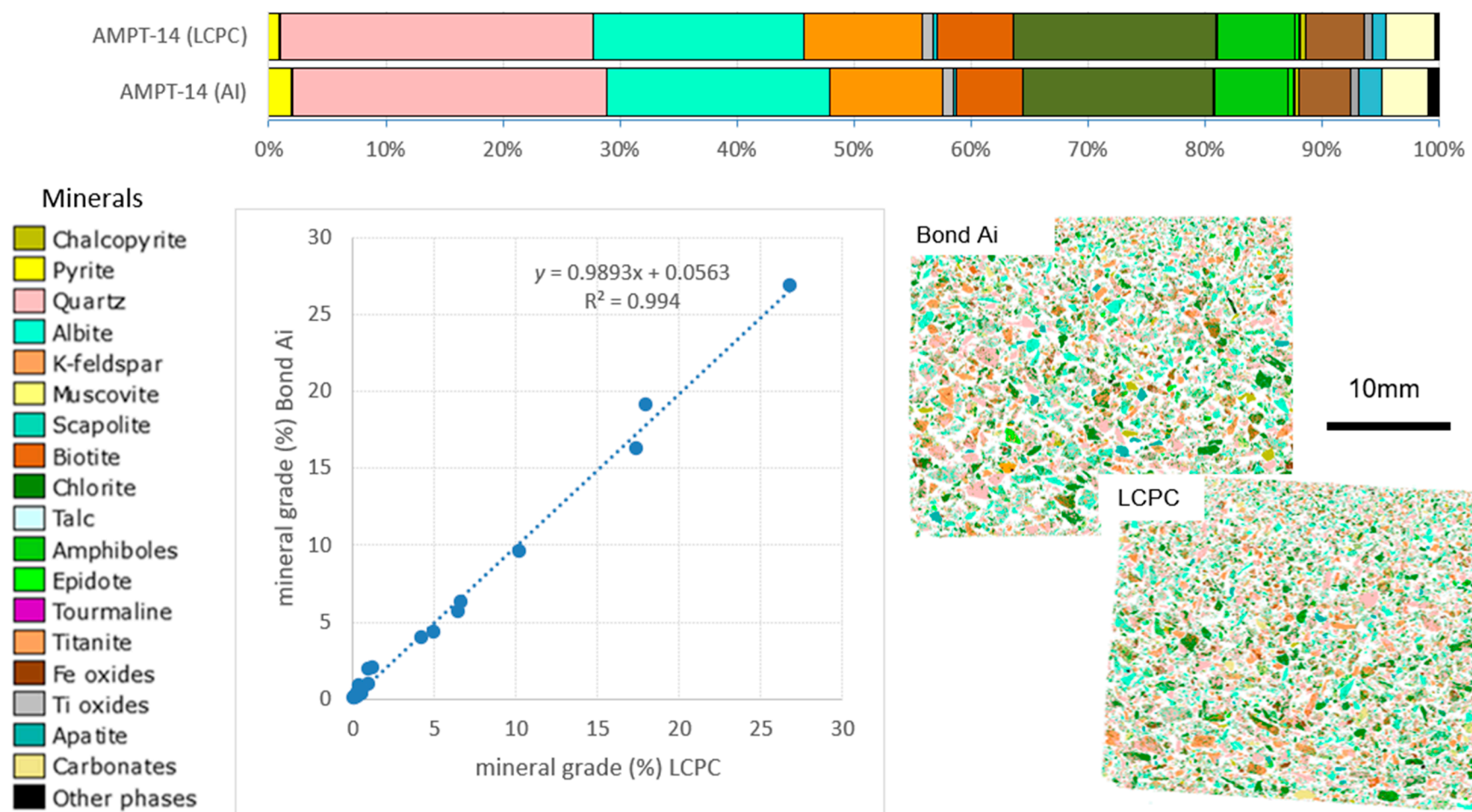


**Figure S8.** Mineral distribution chart of AMPT-12 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

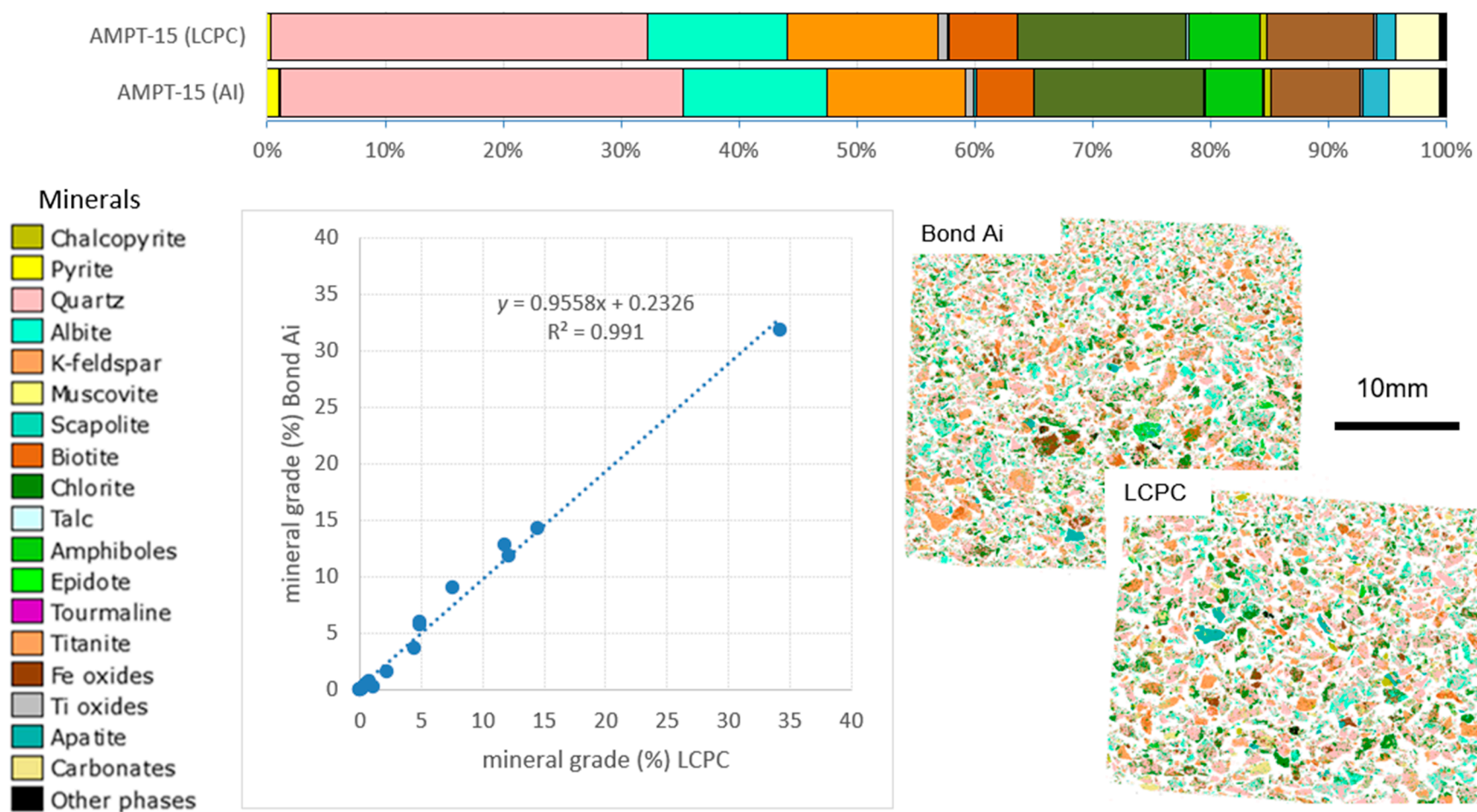




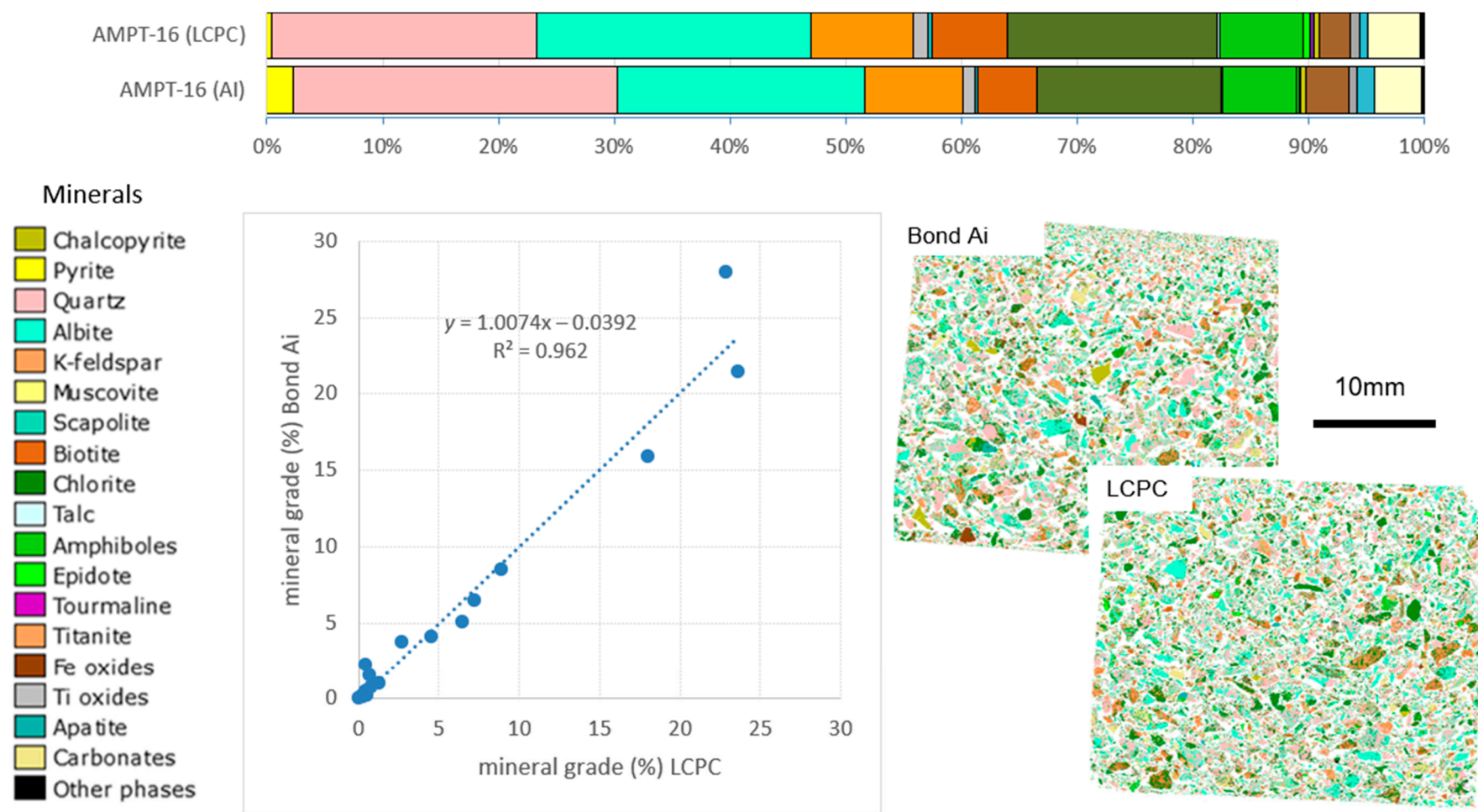
**Figure S9.** Mineral distribution chart of AMPT-13 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.



**Figure S10.** Mineral distribution chart of AMPT-14 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

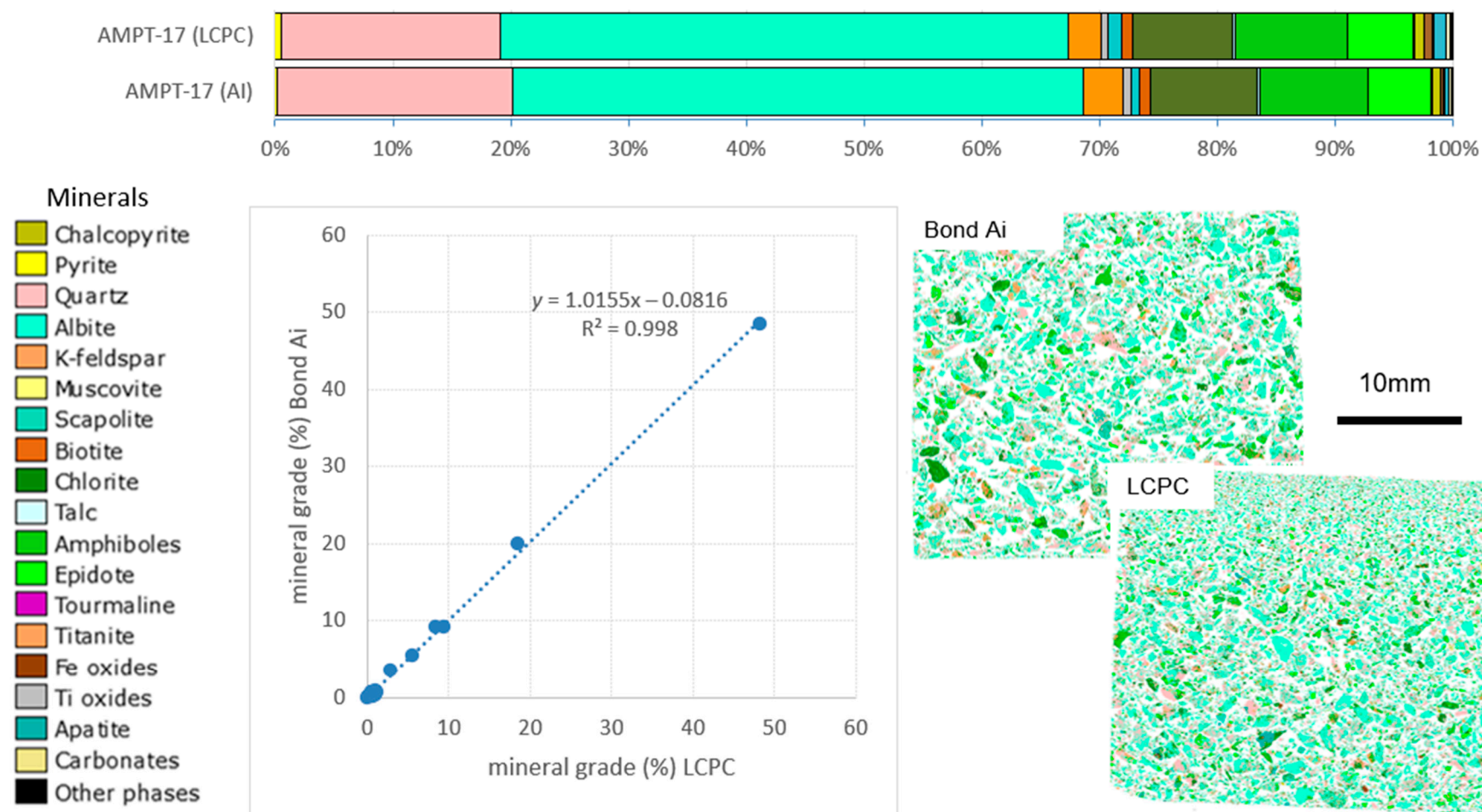


**Figure S11.** Mineral distribution chart of AMPT-15 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

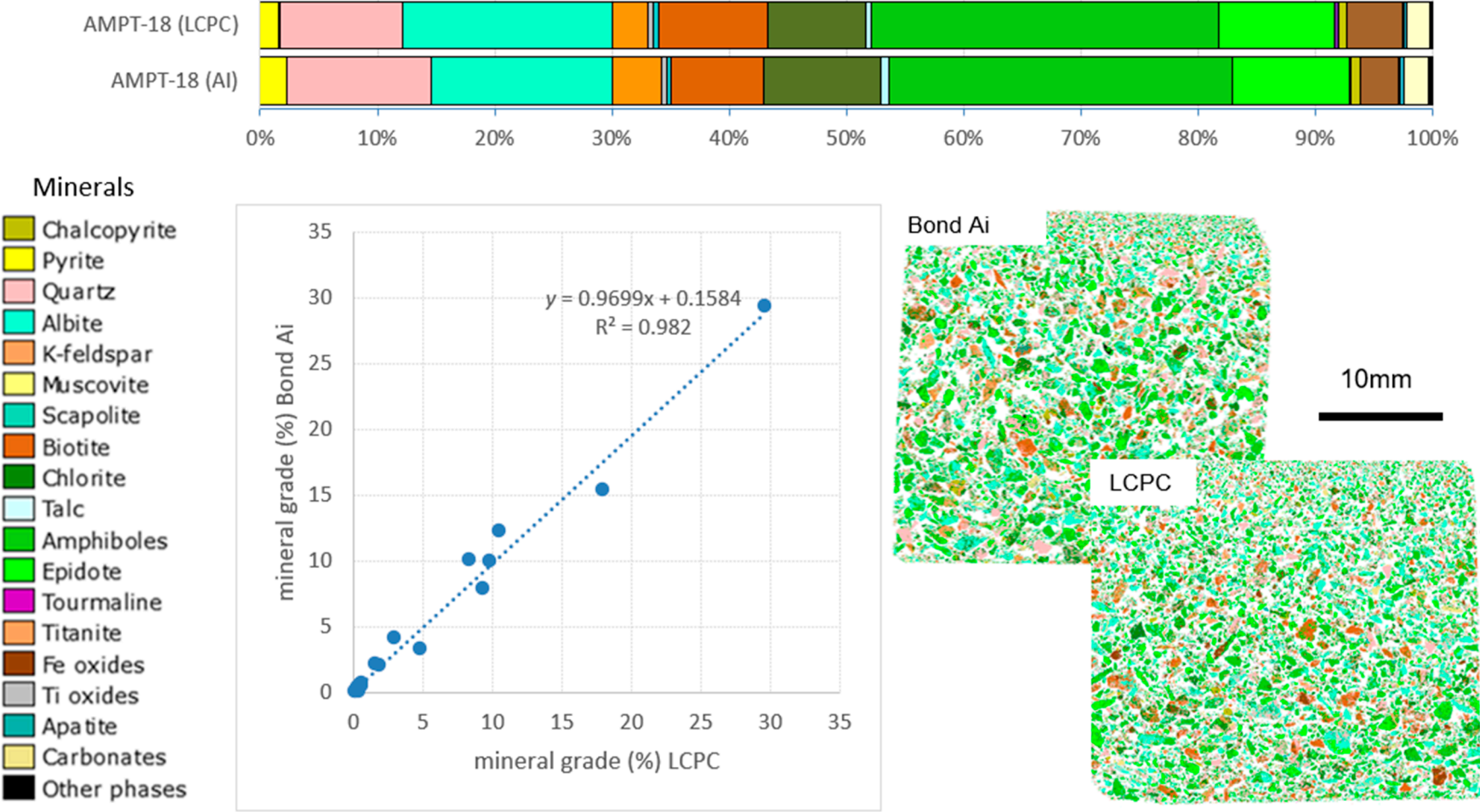


**Figure S12.** Mineral distribution chart of AMPT-16 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

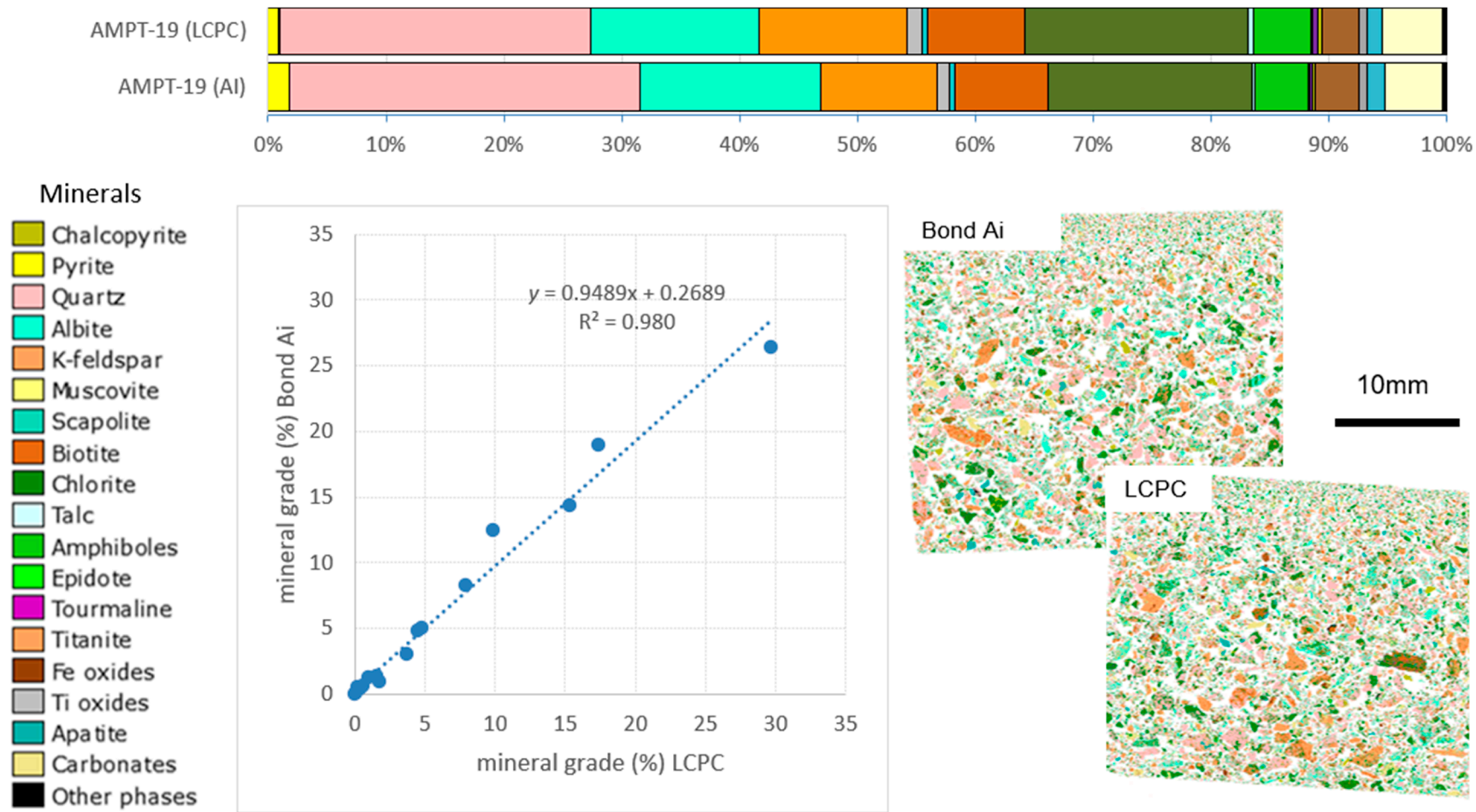




**Figure S13.** Mineral distribution chart of AMPT-17 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

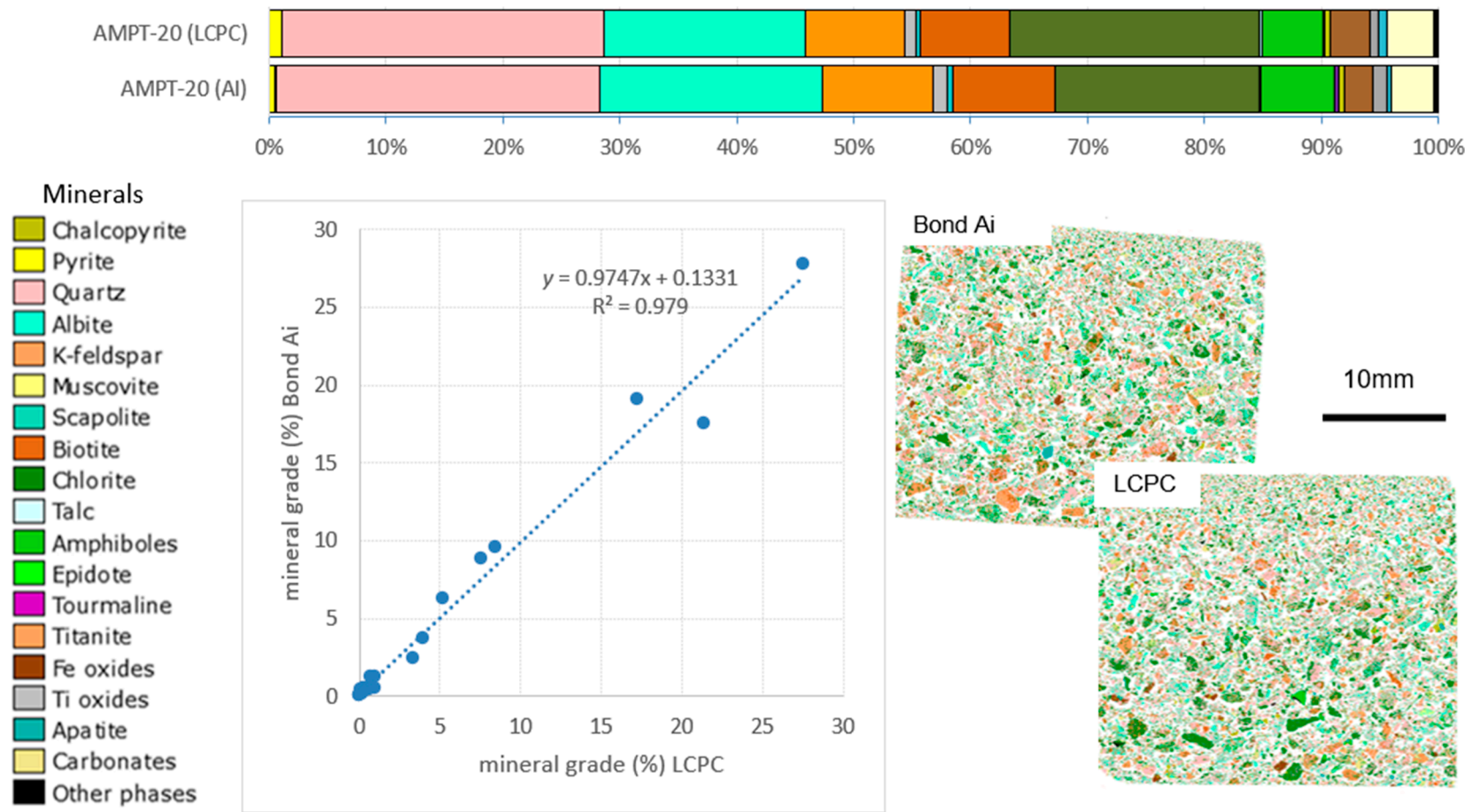


**Figure S14.** Mineral distribution chart of AMPT-18 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

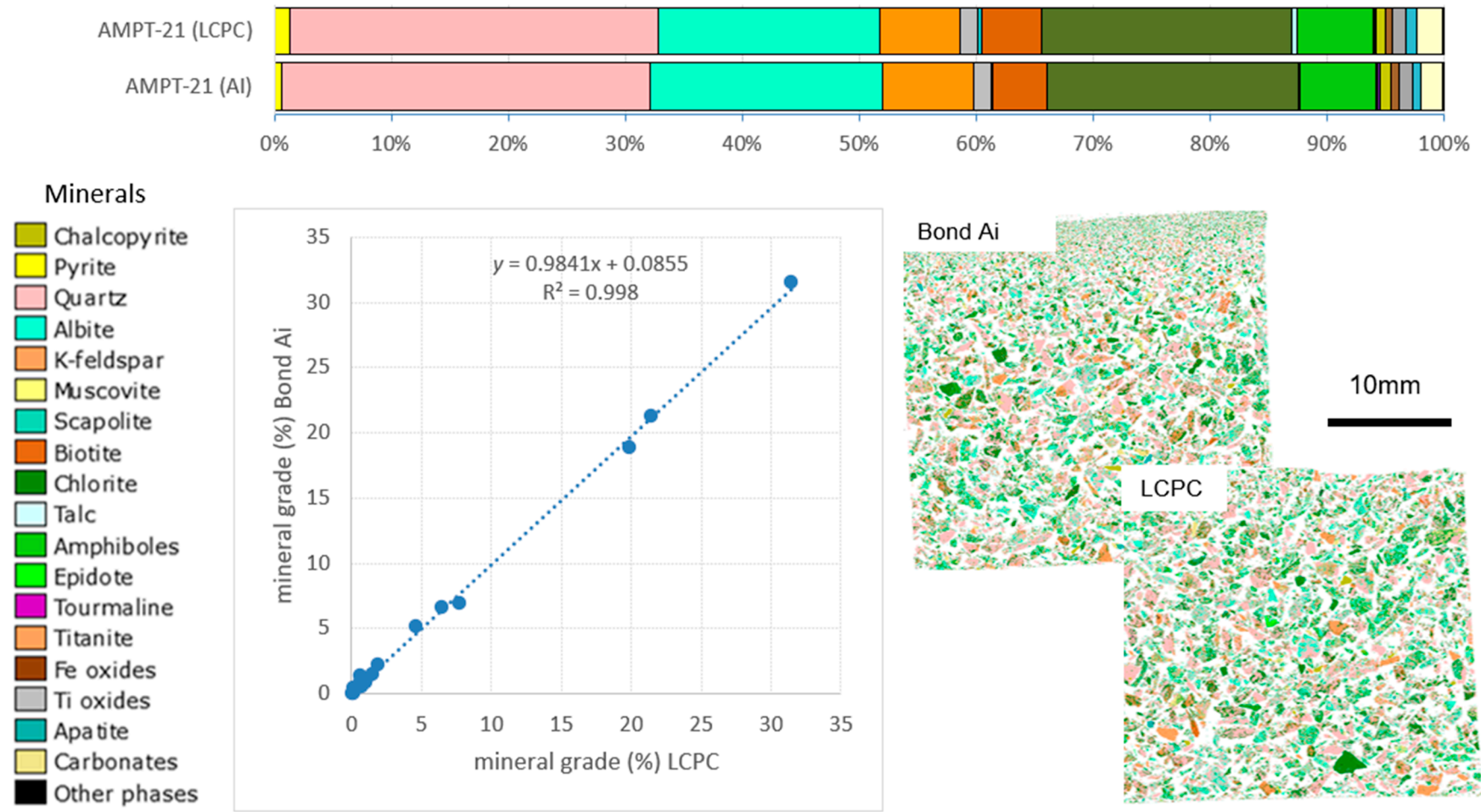


**Figure S15.** Mineral distribution chart of AMPT-19 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

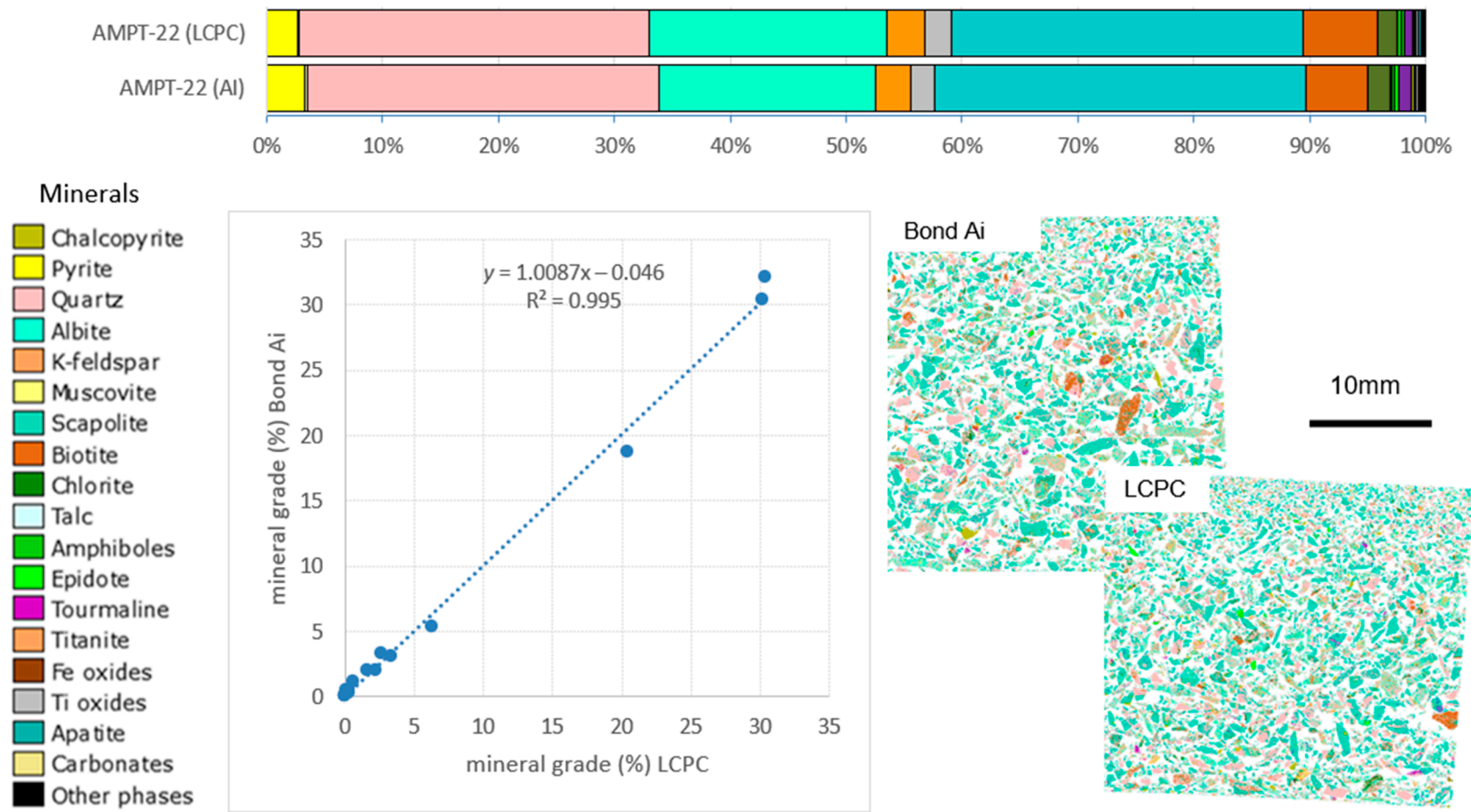




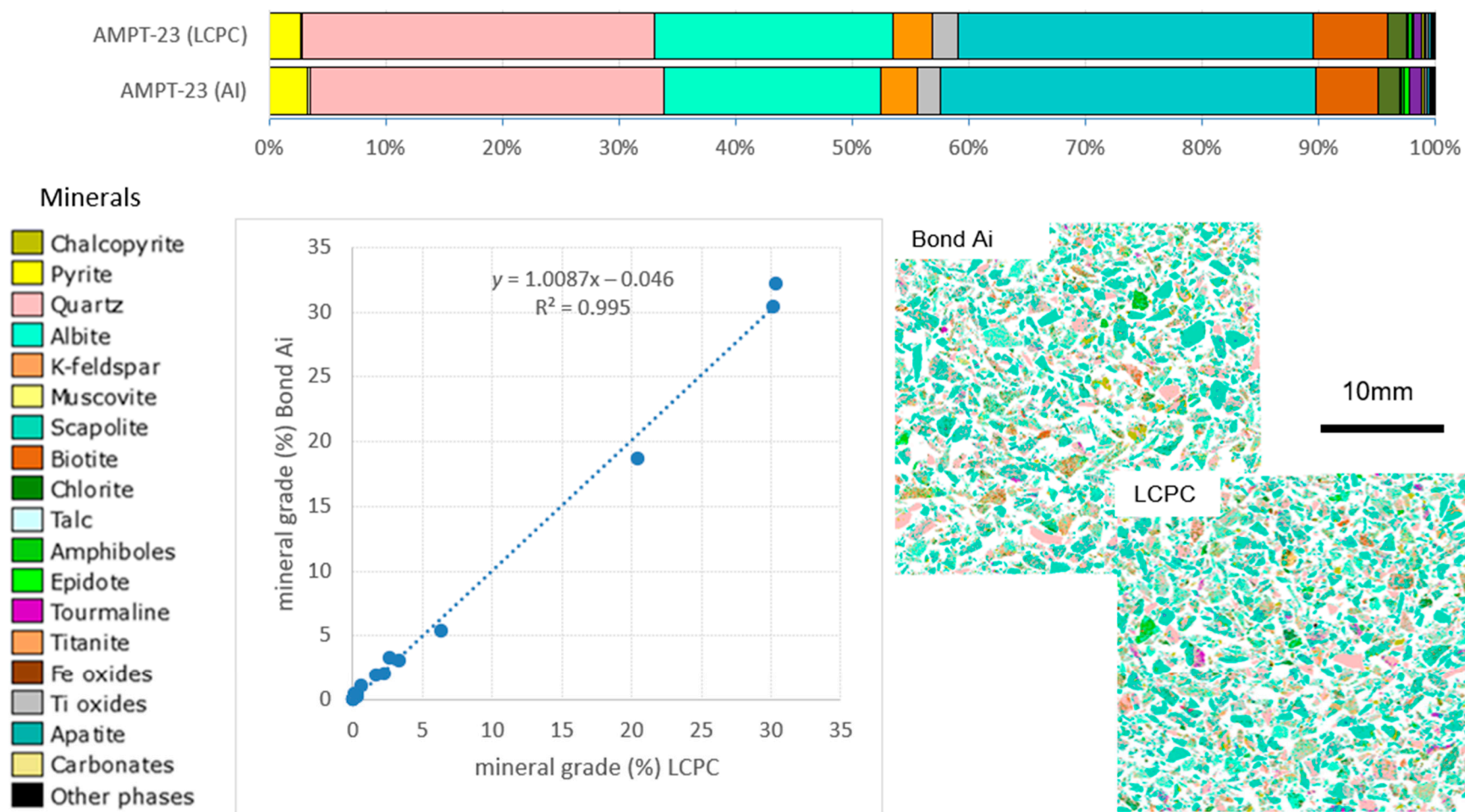
**Figure S16.** Mineral distribution chart of AMPT-20 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.



**Figure S17.** Mineral distribution chart of AMPT-21 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

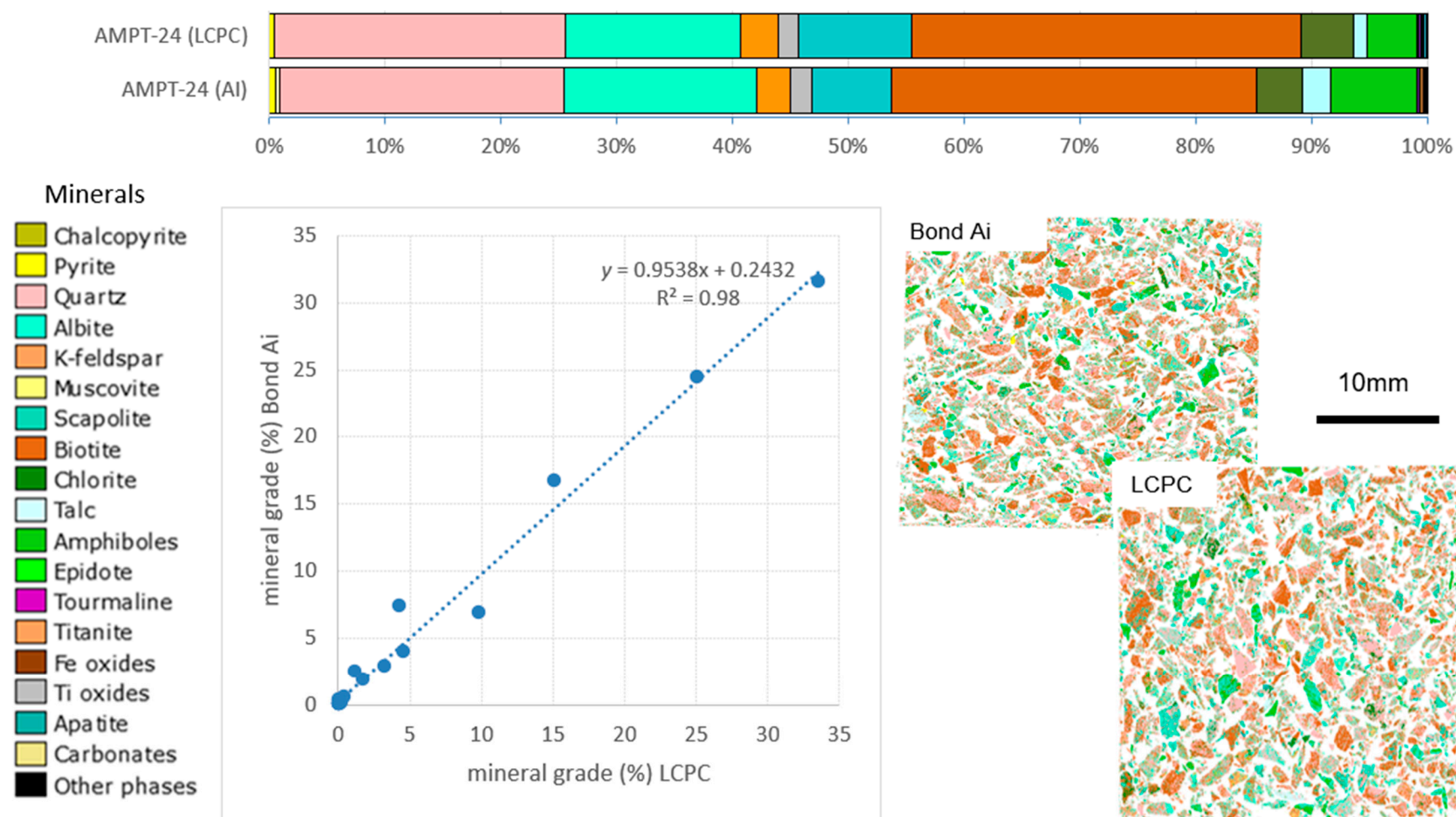


**Figure S18.** Mineral distribution chart of AMPT-22 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

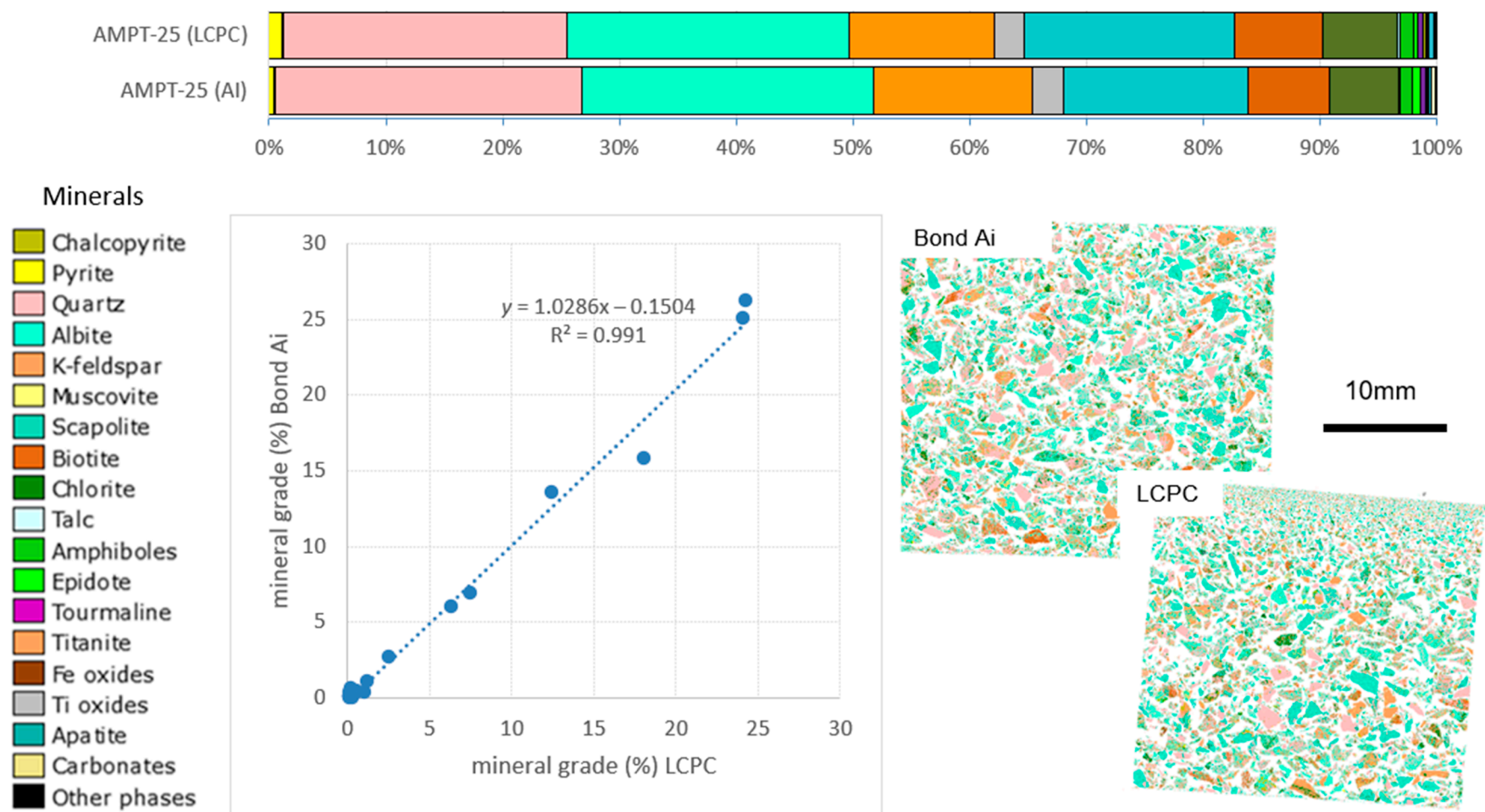


**Figure S19.** Mineral distribution chart of AMPT-23 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

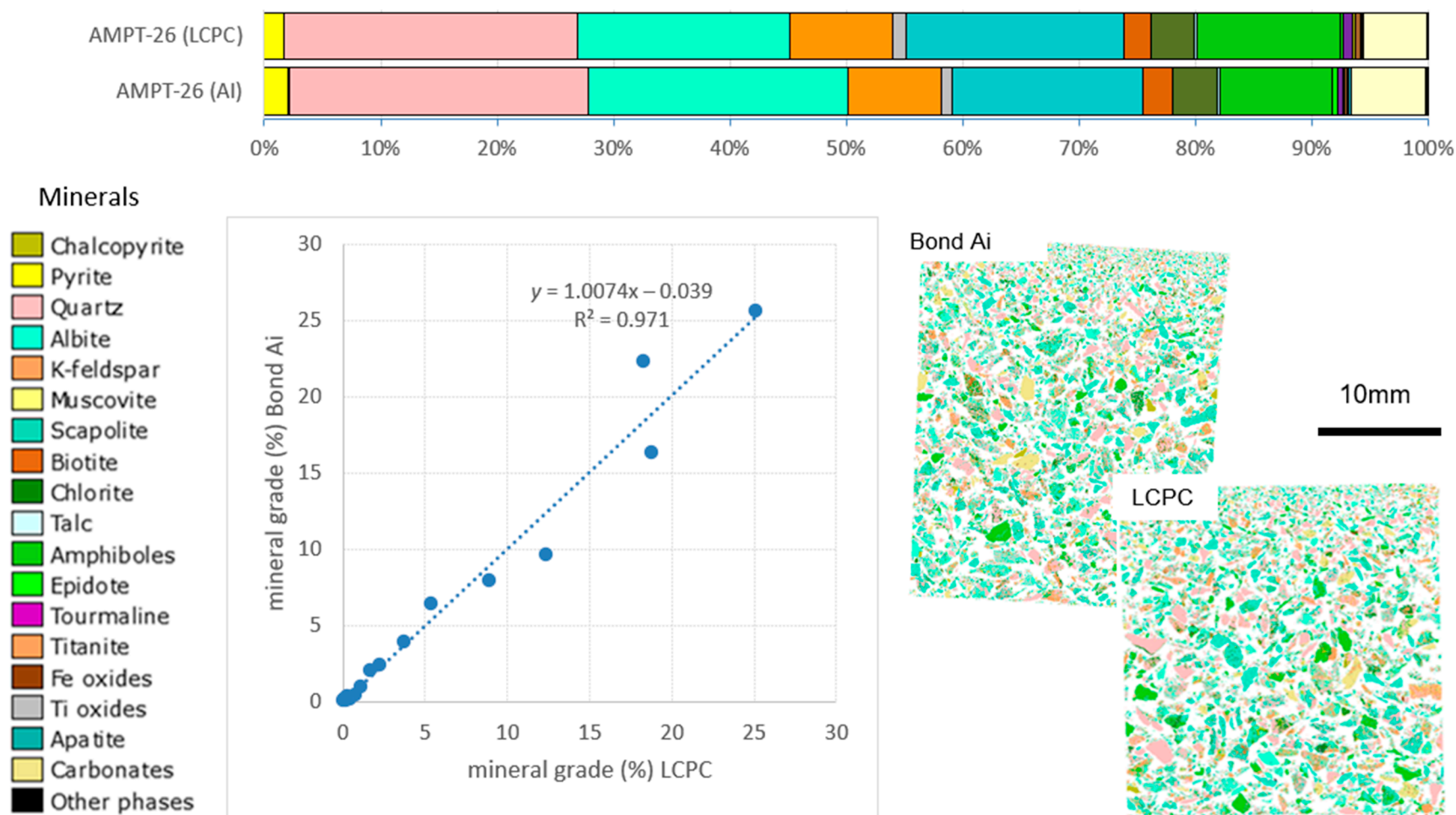




**Figure S20.** Mineral distribution chart of AMPT-24 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

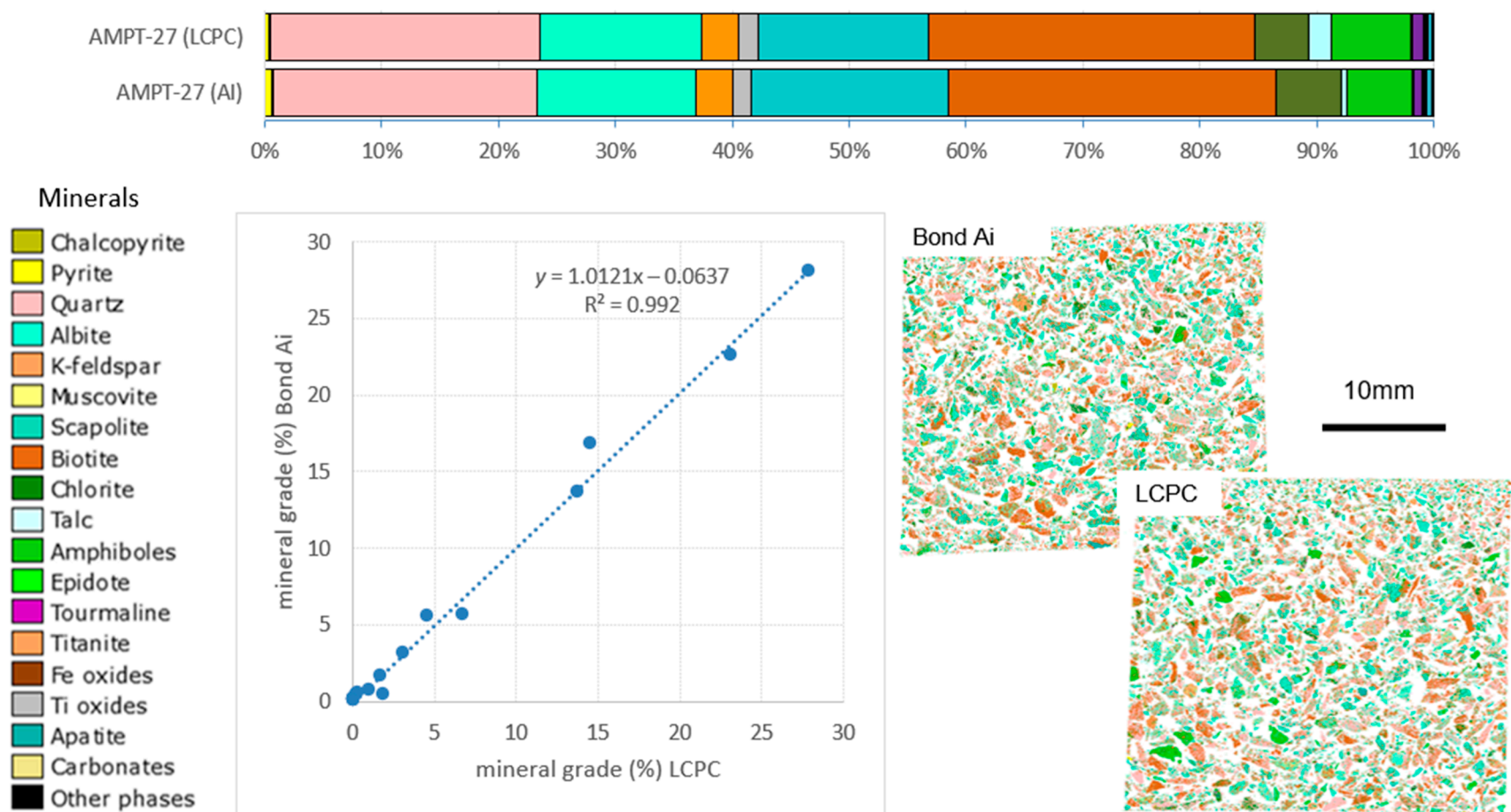


**Figure S21.** Mineral distribution chart of AMPT-25 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

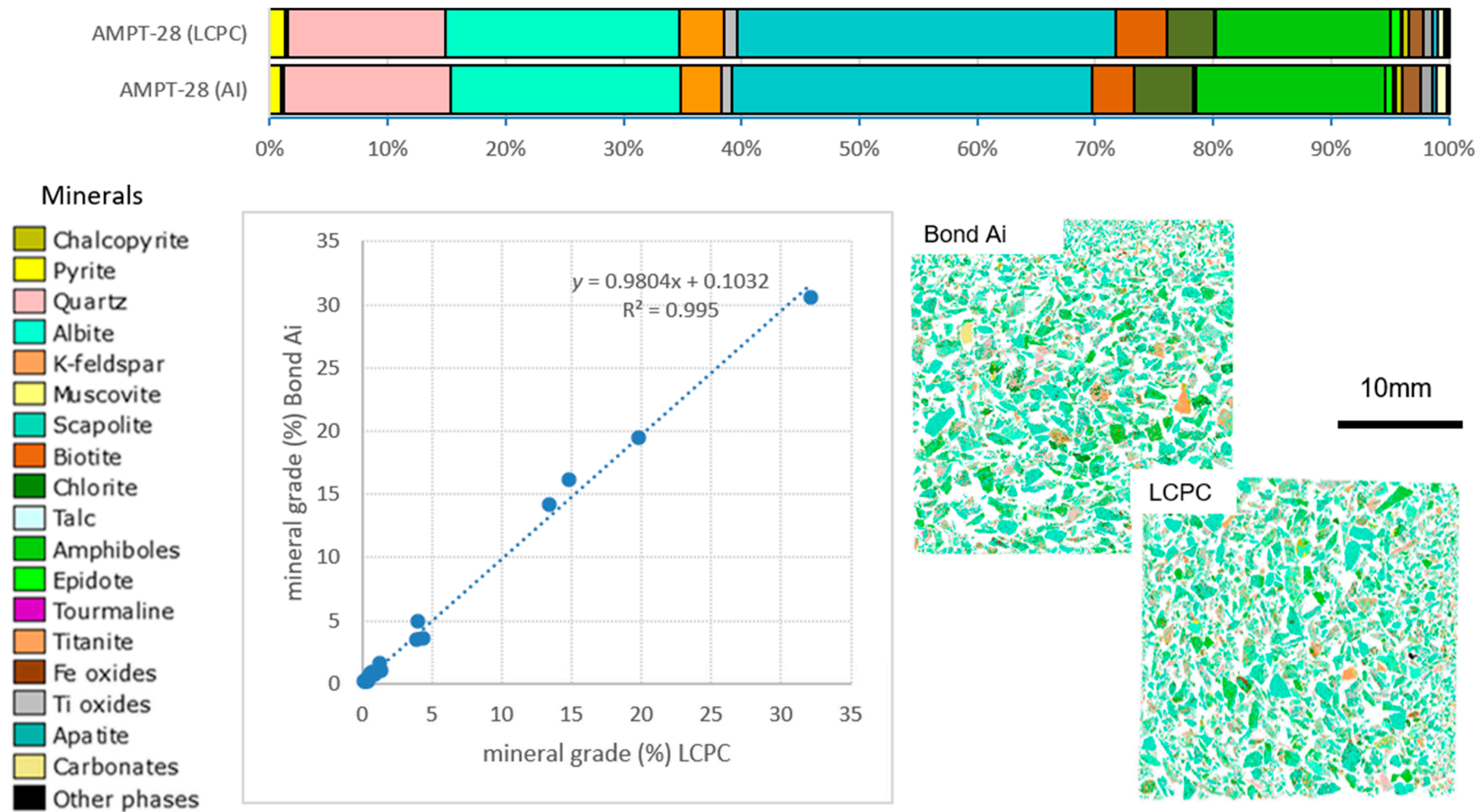


**Figure S22.** Mineral distribution chart of AMPT-26 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

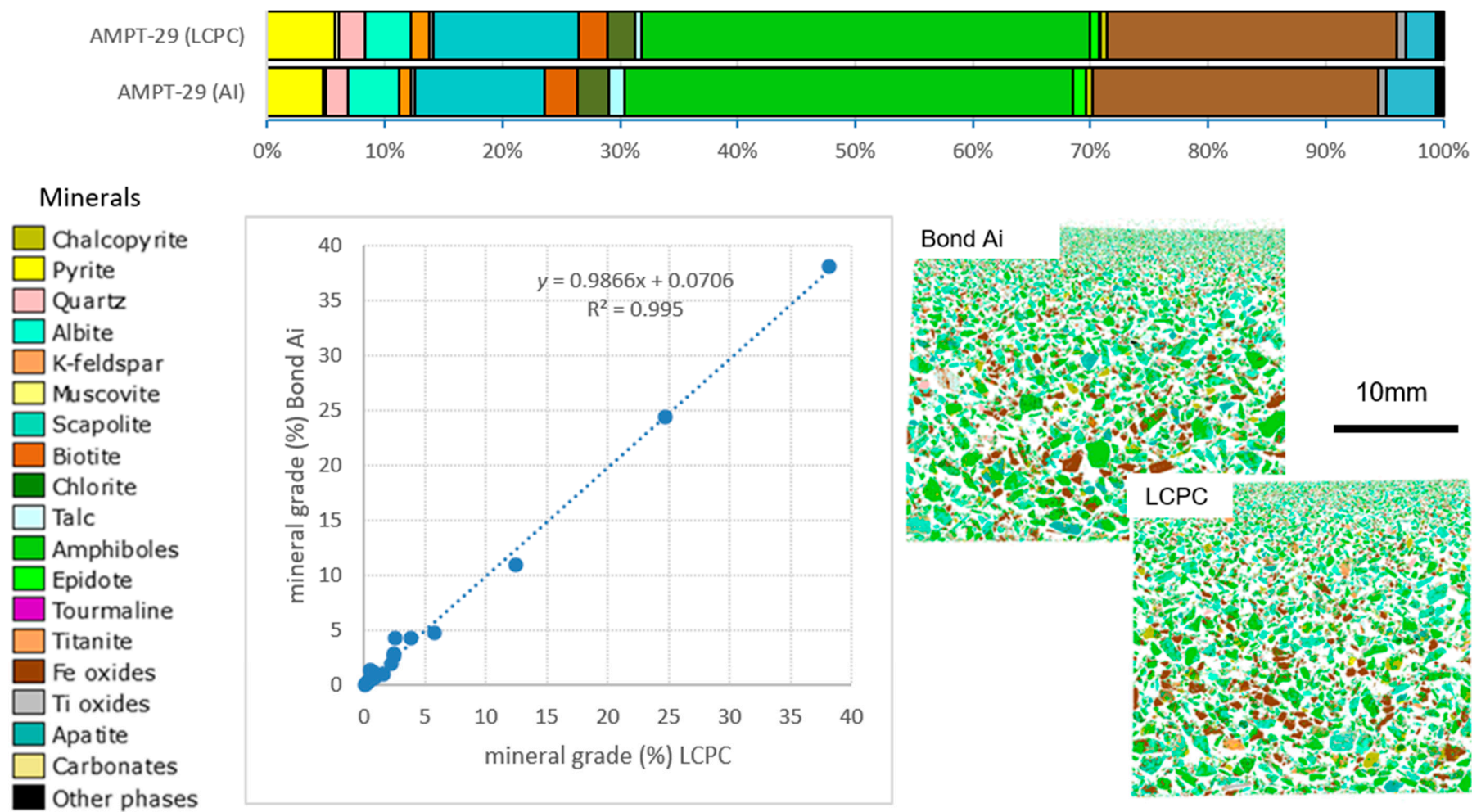




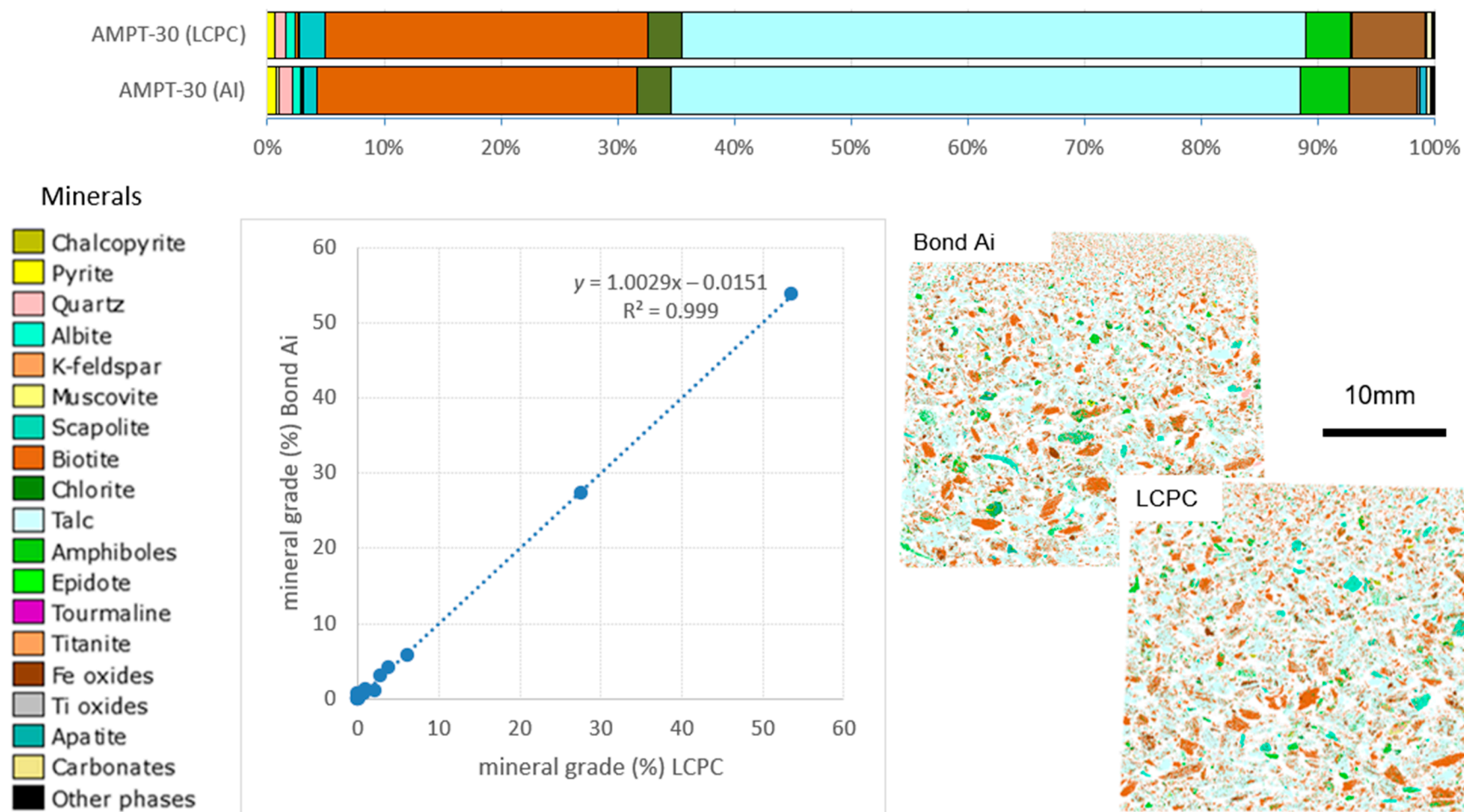
**Figure S23.** Mineral distribution chart of AMPT-27 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.



**Figure S24.** Mineral distribution chart of AMPT-28 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

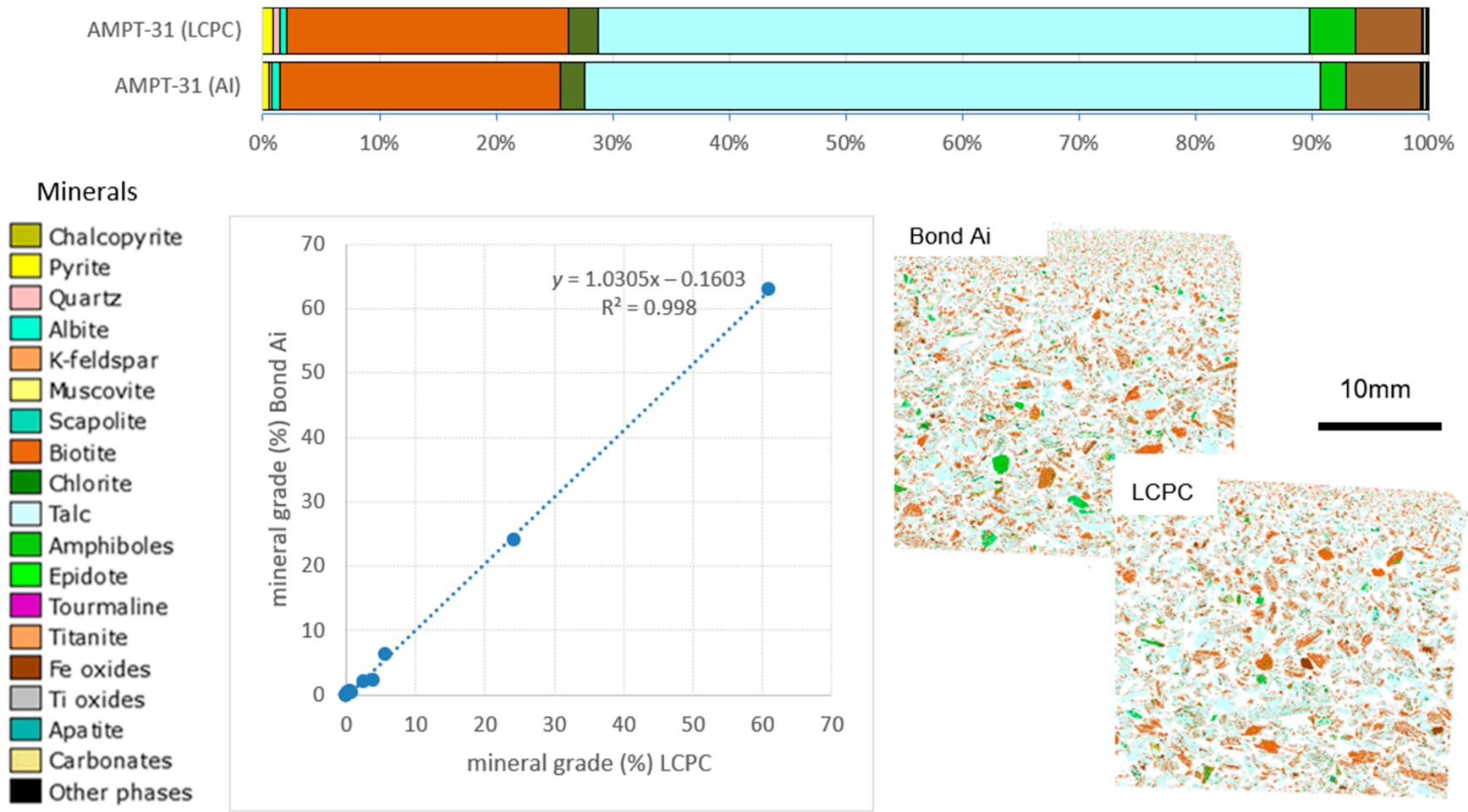


**Figure S25.** Mineral distribution chart of AMPT-29 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

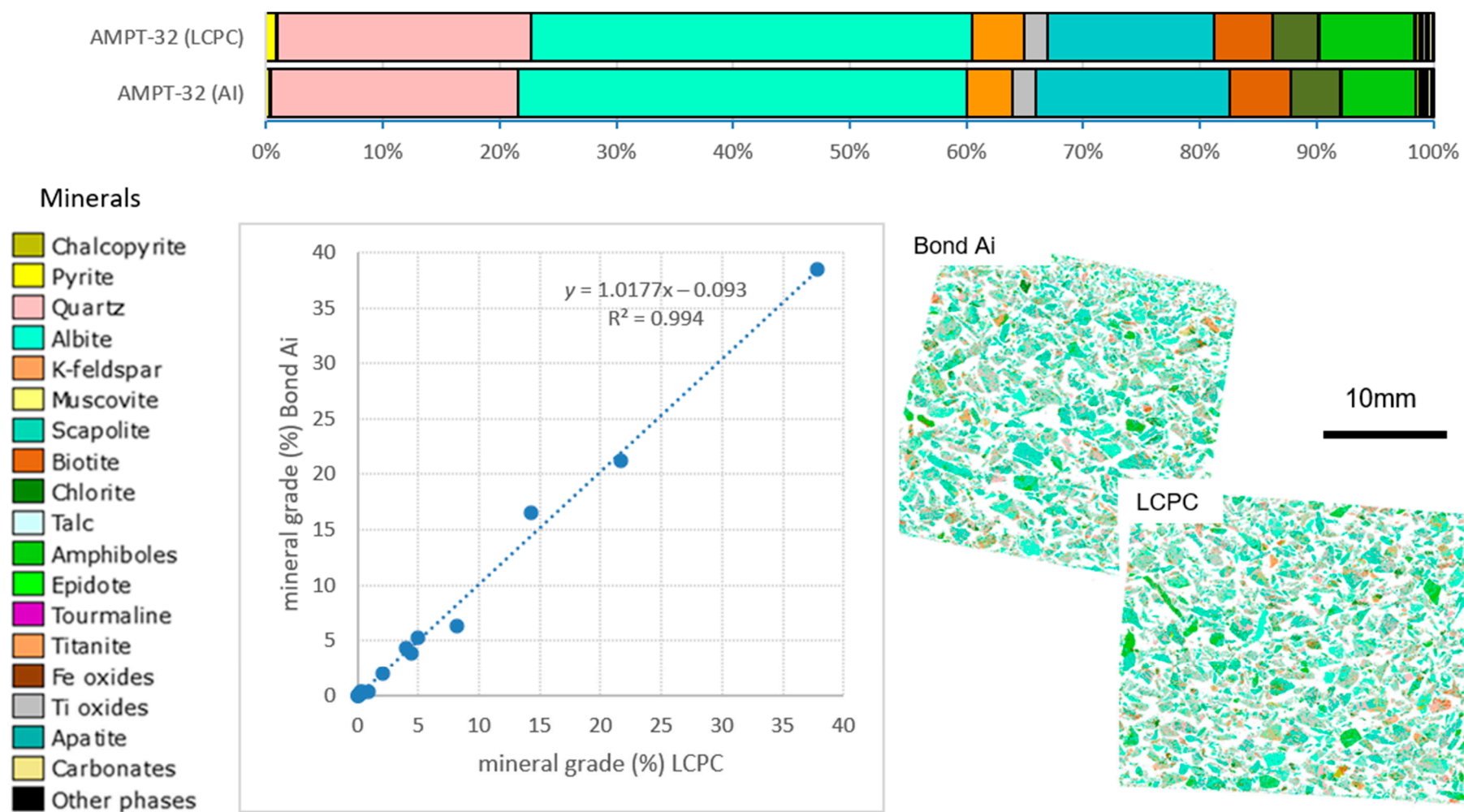


**Figure S26.** Mineral distribution chart of AMPT-30 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

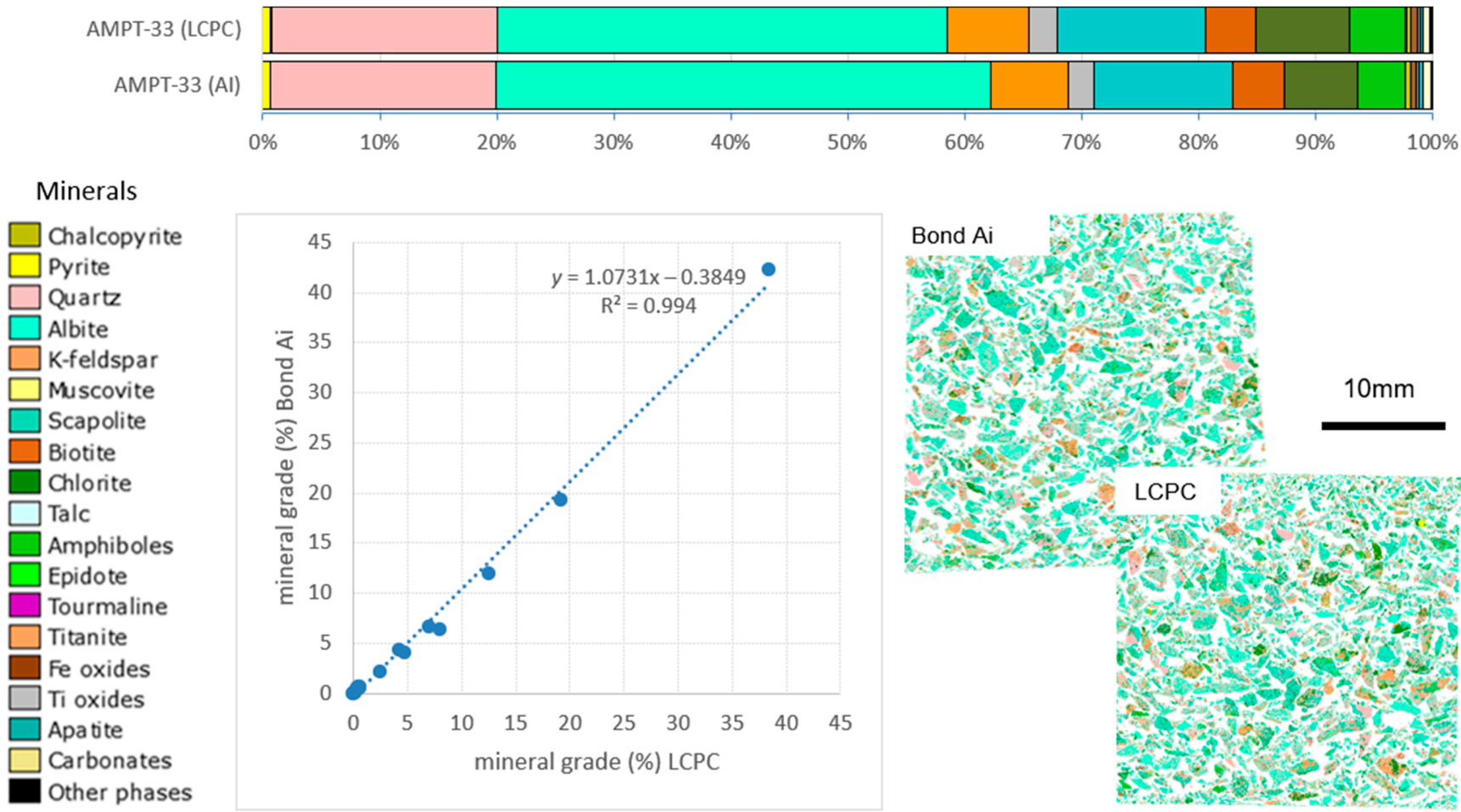




**Figure S27.** Mineral distribution chart of AMPT-31 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

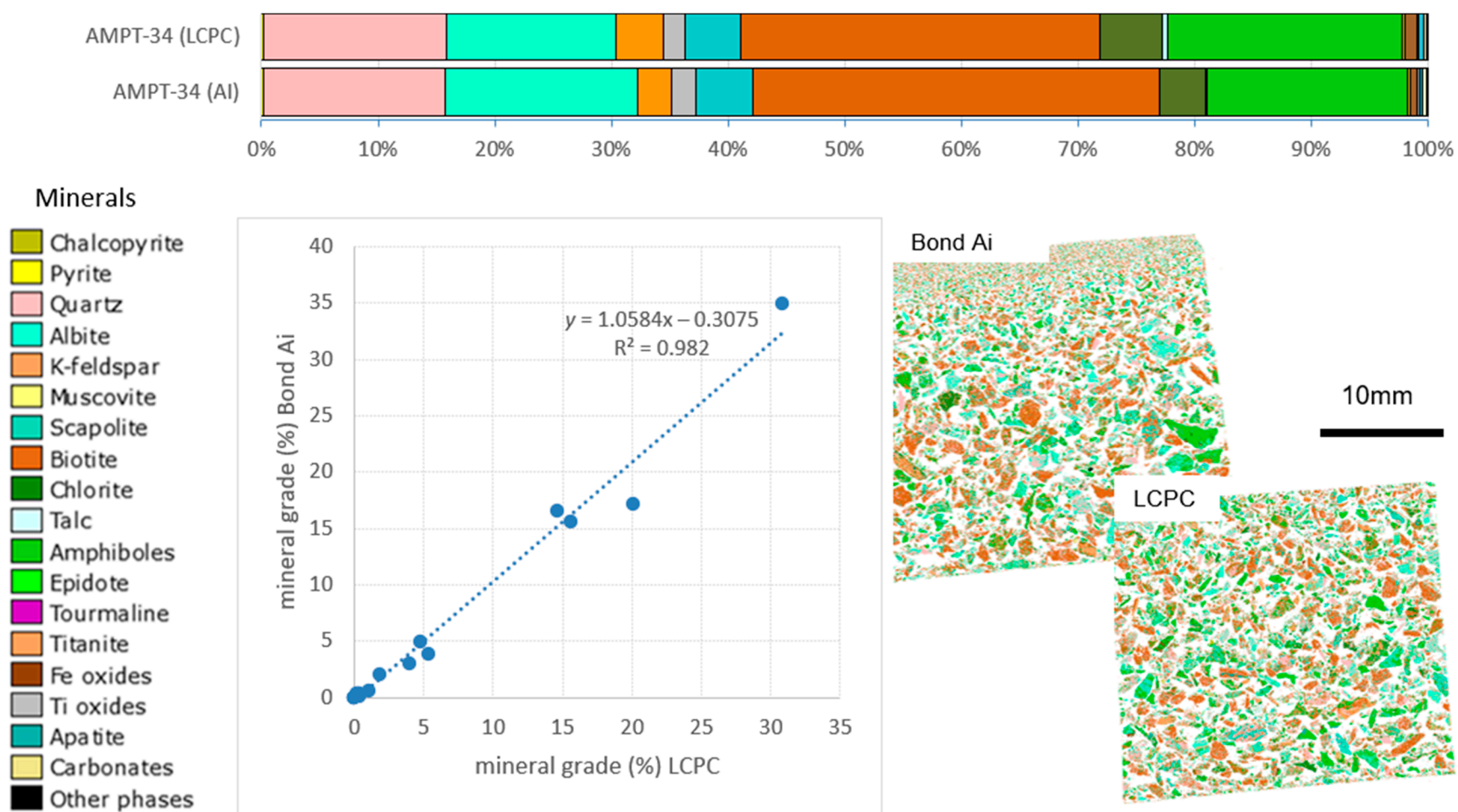


**Figure S28.** Mineral distribution chart of AMPT-32 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

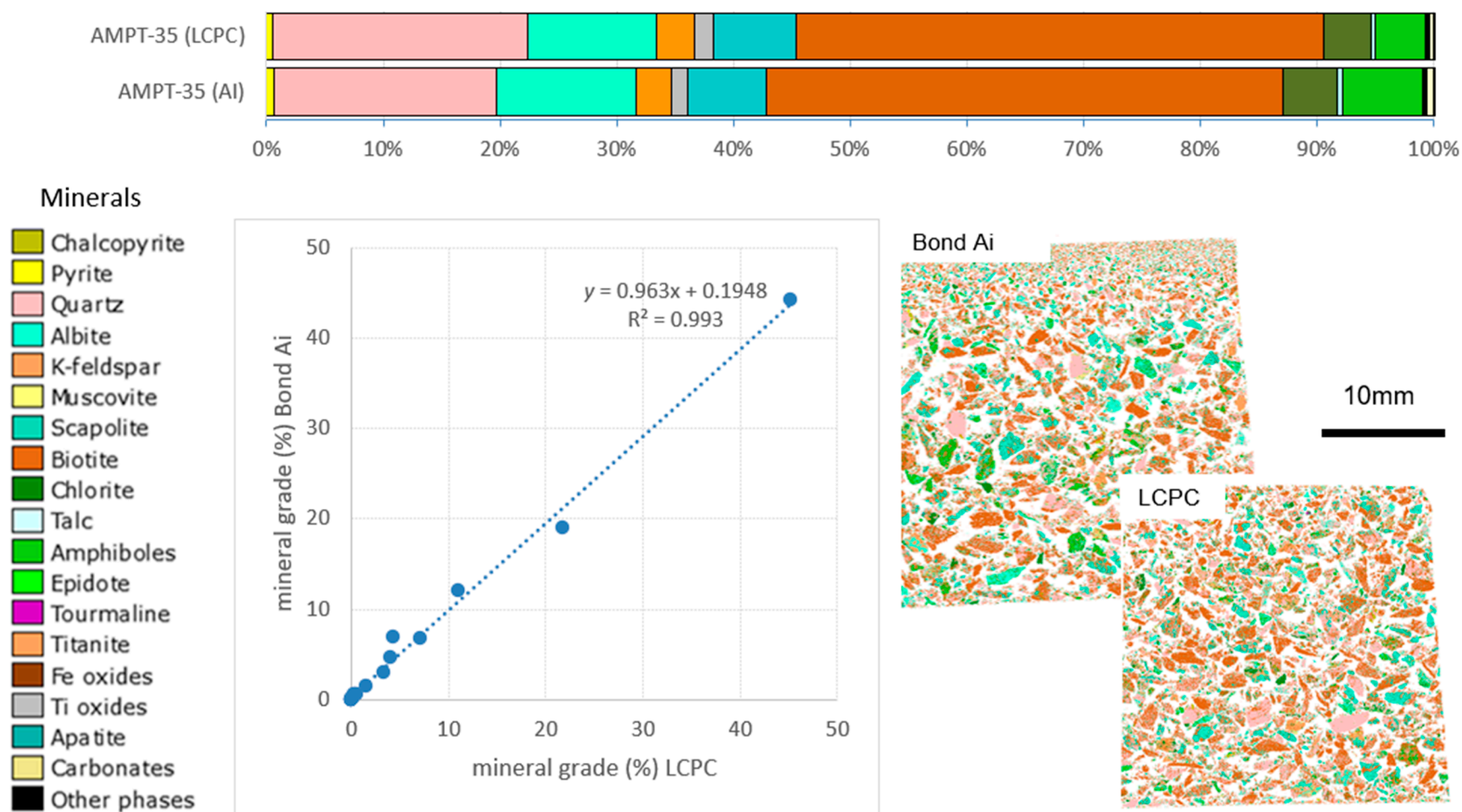


**Figure S29.** Mineral distribution chart of AMPT-33 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

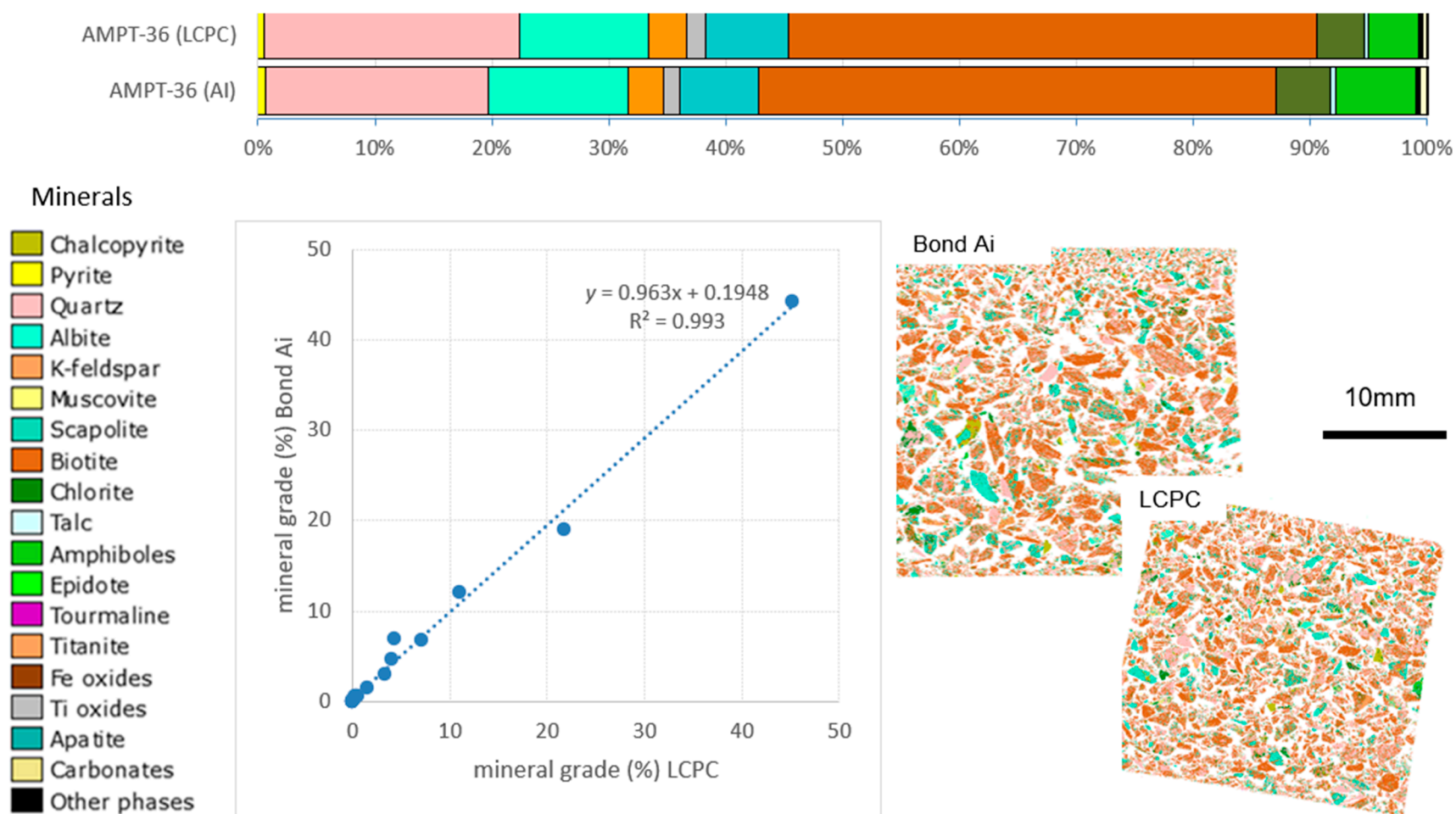




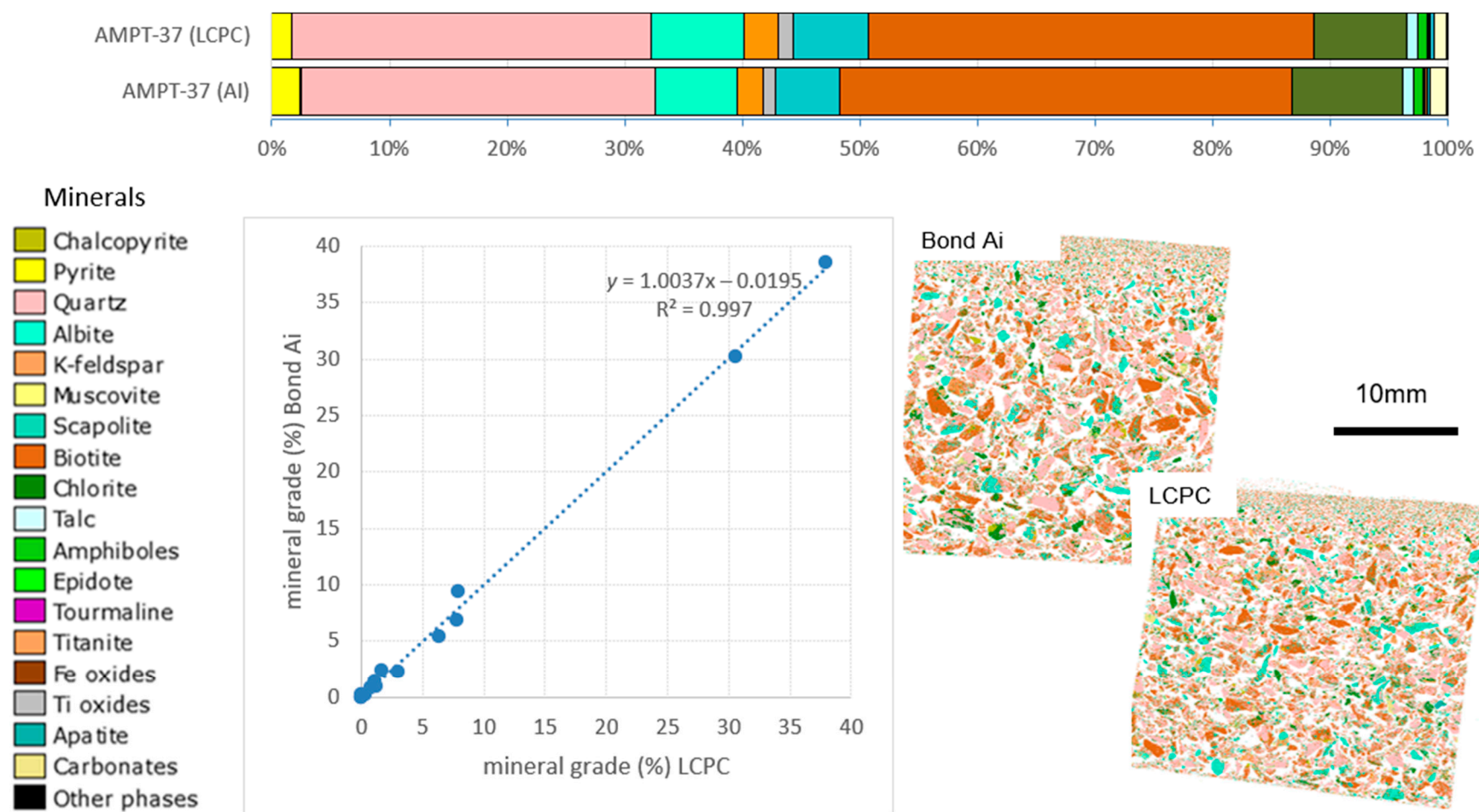
**Figure S30.** Mineral distribution chart of AMPT-34 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.



**Figure S31.** Mineral distribution chart of AMPT-35 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

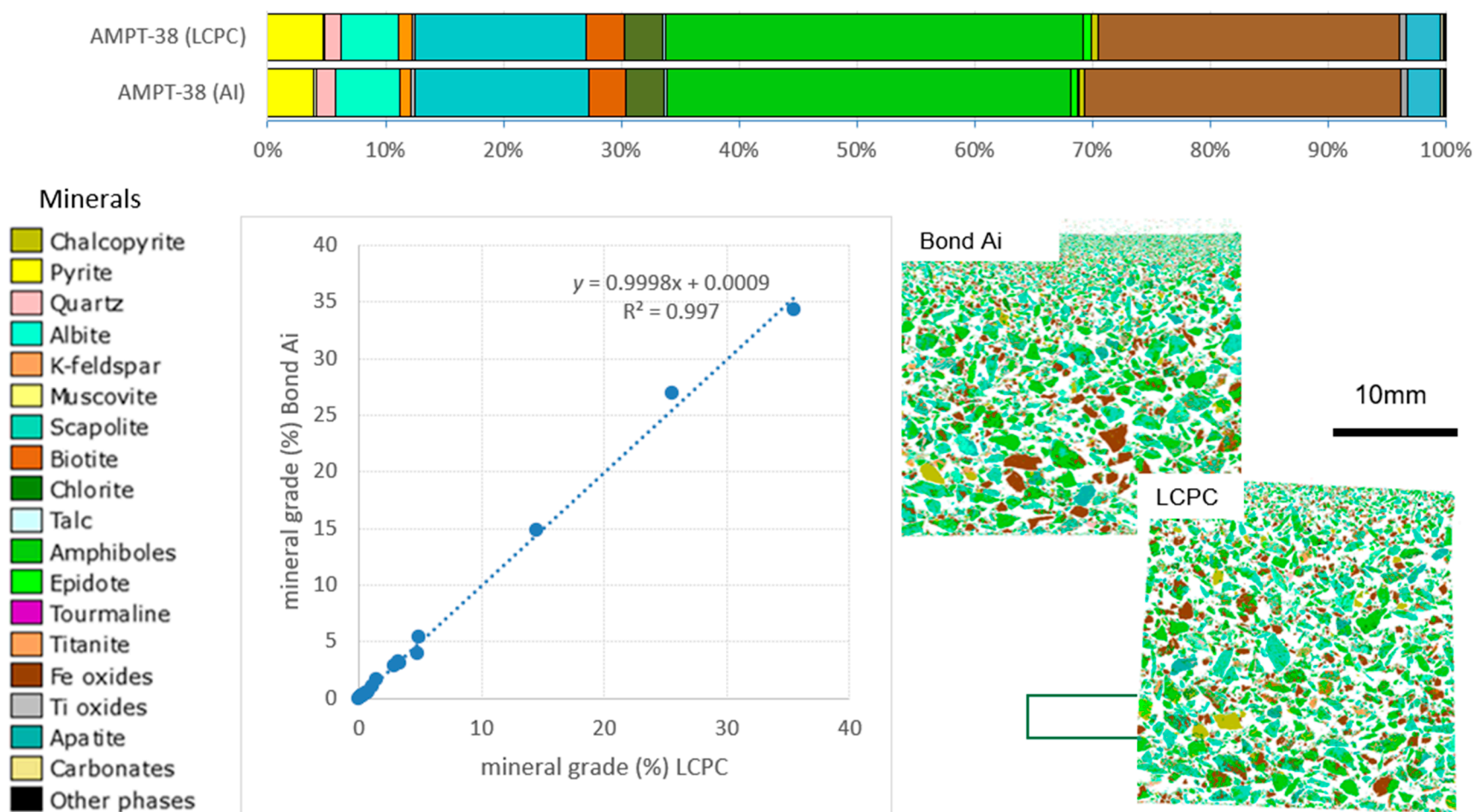


**Figure S32.** Mineral distribution chart of AMPT-36 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

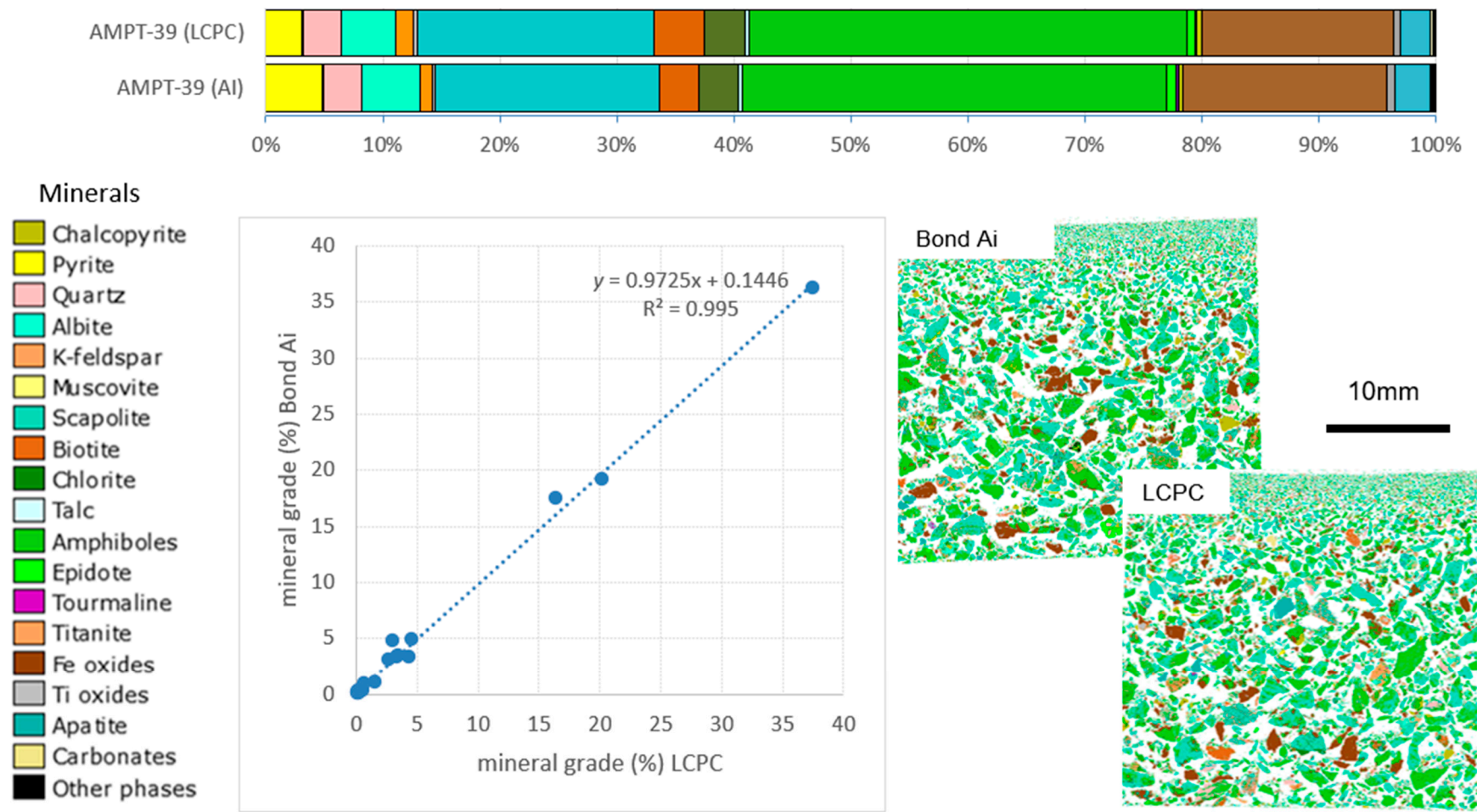


**Figure S33.** Mineral distribution chart of AMPT-37 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.

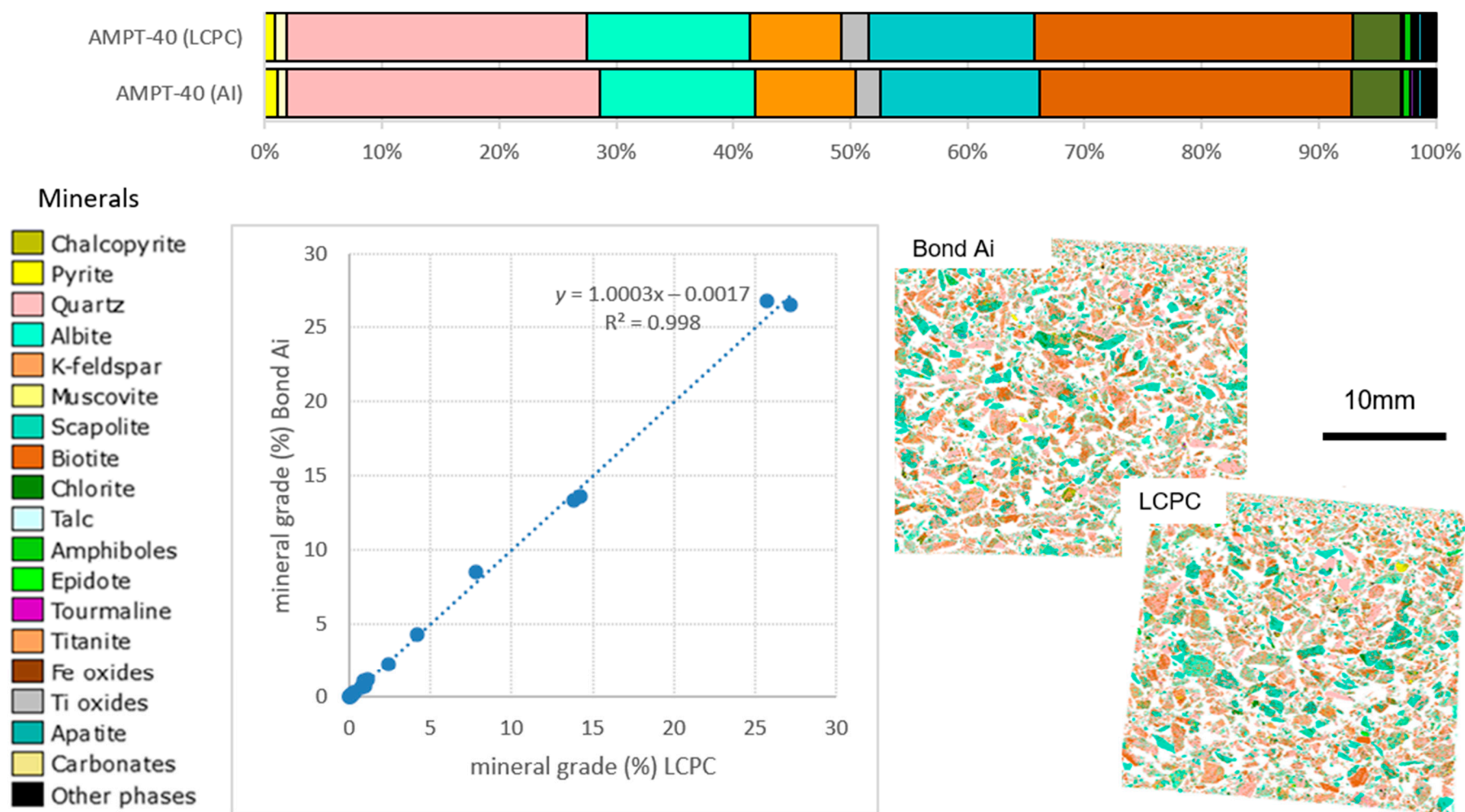




**Figure S34.** Mineral distribution chart of AMPT-38 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.



**Figure S35.** Mineral distribution chart of AMPT-39 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.



**Figure S36.** Mineral distribution chart of AMPT-40 samples. Horizontal bar distribution percentage of minerals, scatterplot of minerals, and QEMSCAN® images of Bond Ai and LCPC samples.