

Supplementary Information

Determination of the graphene-graphite ratio of graphene powder by
Raman 2D band symmetry analysis

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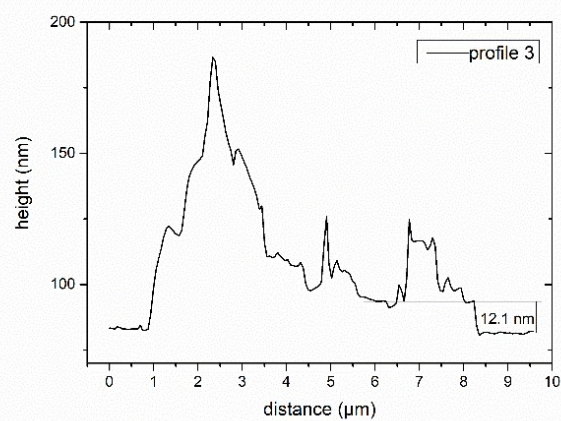
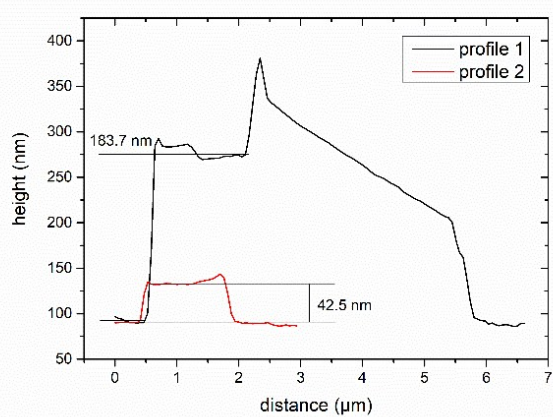
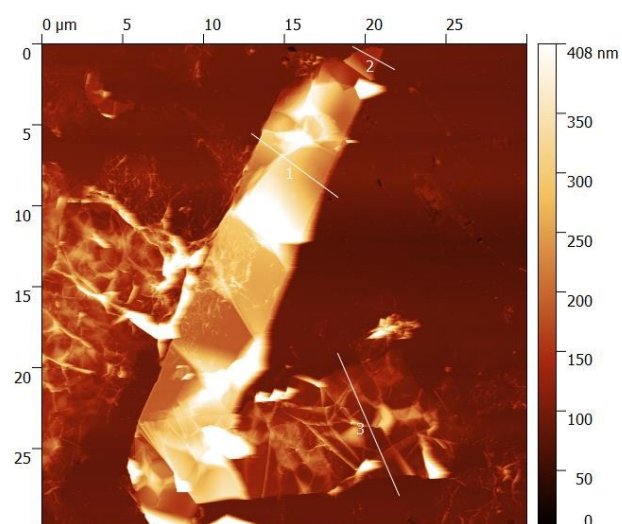


Figure S1: AFM height image of the graphite flakes with their respective height profiles as indicated in the image.

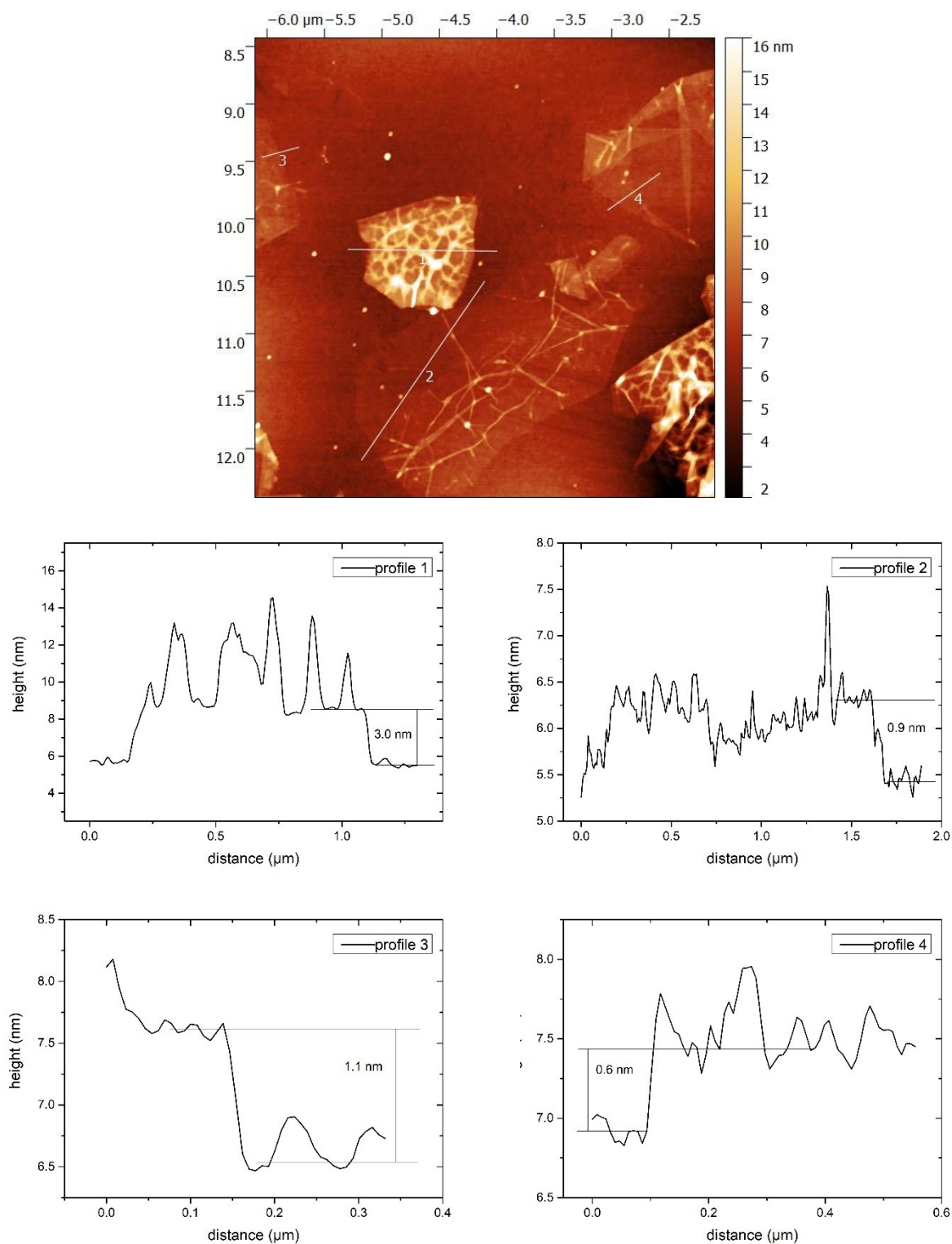


Figure S2: AFM height image of graphene flakes surrounding the graphite flakes shown in figure S1 and their respective profiles.

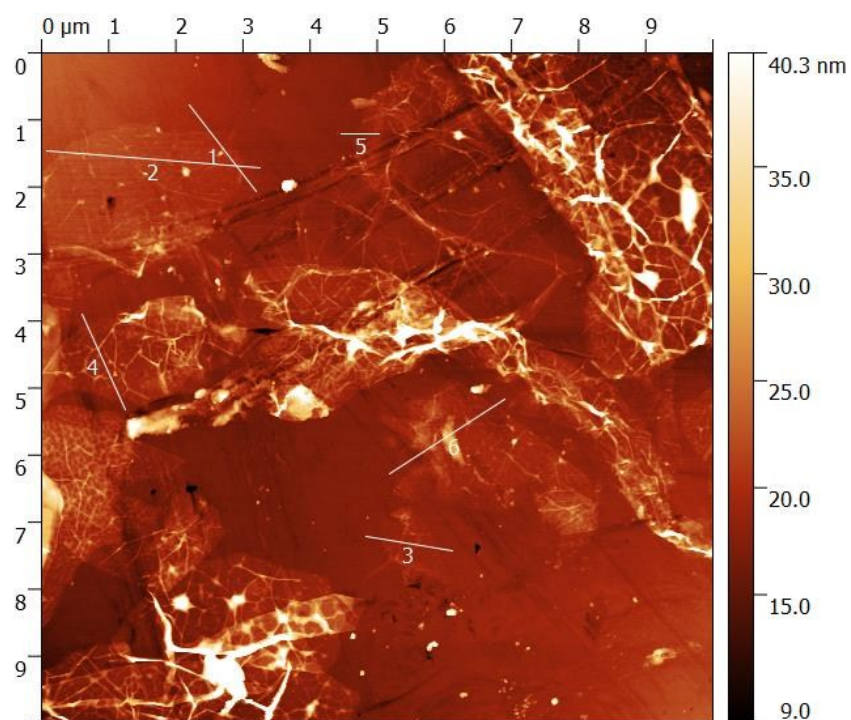


Figure S3: AFM height image of graphene flakes surrounding the graphite flakes. The corresponding profiles are shown in figure S4.

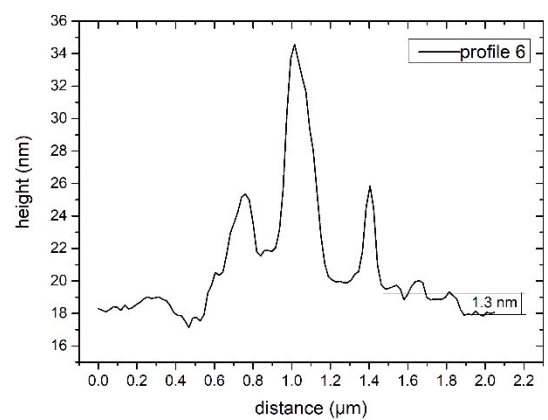
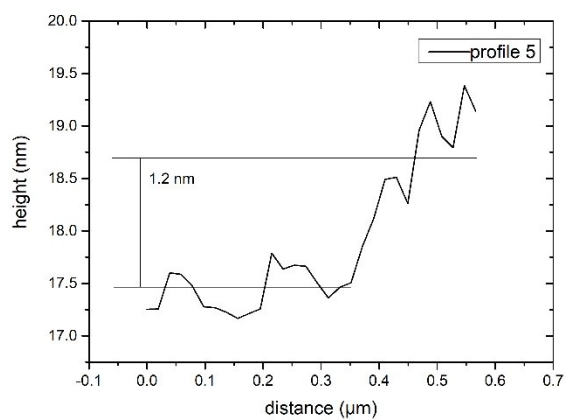
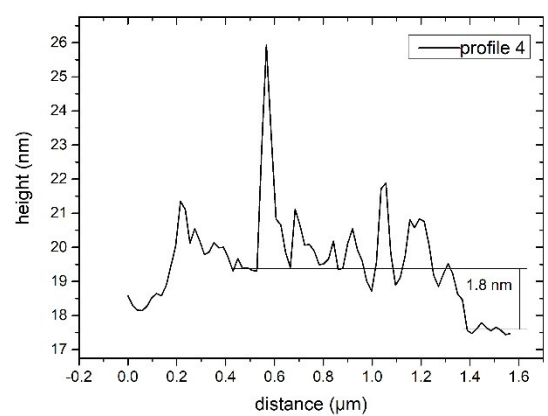
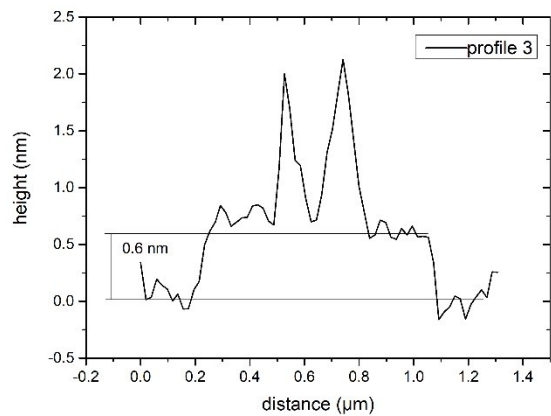
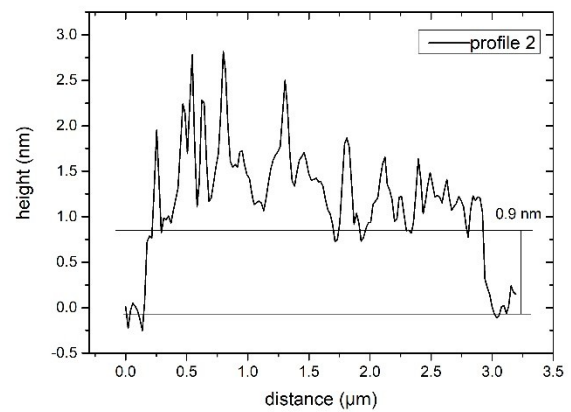
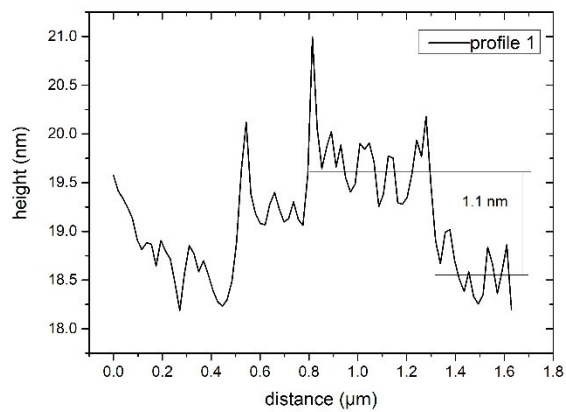


Figure S4: AFM height profiles of the graphene flakes as indicated in figure S3.

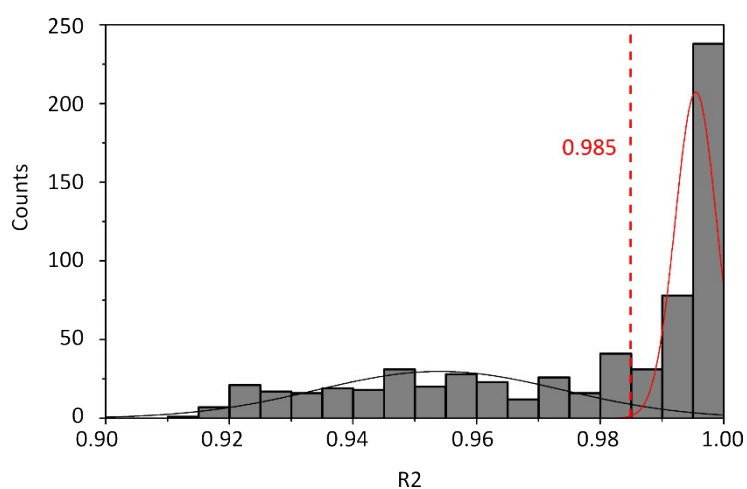


Figure S5: Histogram of the Raman 2D band fit coefficient R^2 of the graphene and graphite flakes analysed by AFM and Raman spectroscopy shown in figure 4.

The distributions of graphene and graphite flakes were analysed by a two-sample t-test. They are significantly different with a p-value below 0.05.