

Supplementary Information for:

Three-dimensional reduced graphene oxide powder for efficient microwave absorption in S-band (2-4 GHz)

Shuai Fang,^{a,b} Daqing Huang,^d Ruitao Lv,^{*a,c} Yu Bai,^c Zheng-Hong Huang,^{a,c} Jialin Gu,^c and Feiyu Kang^{*a,b,c}

^aState Key Laboratory of New Ceramics and Fine Processing, School of Materials Science and Engineering, Tsinghua University, Beijing 100084, China. E-mail: lvruitao@tsinghua.edu.cn

^bEngineering Laboratory for Functionalized Carbon Materials, Graduate School at Shenzhen, Tsinghua University, Shenzhen 518055, China. E-mail: fykang@tsinghua.edu.cn

^cKey Laboratory of Advanced Materials (MOE), School of Materials Science and Engineering, Tsinghua University, Beijing 100084, China

^dBeijing Institute of Aeronautical Materials AVIC, Beijing 100095, China

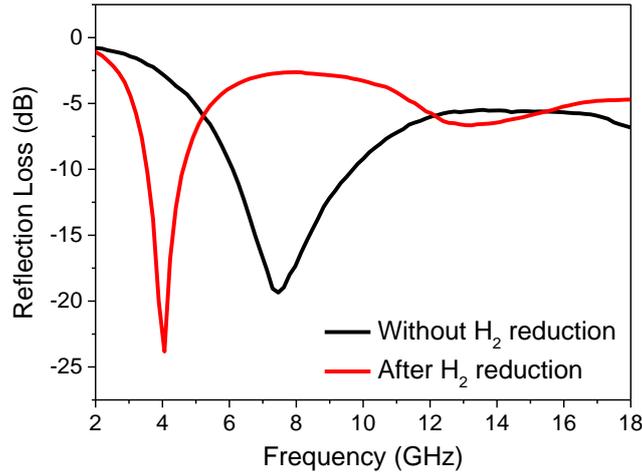


Fig. S1 Reflection loss of three-dimensional reduced graphene oxide (3D-rGO) samples without and after hydrogen reduction at 900 °C for 30 min. The coating thickness and content of 3D-rGO samples in paraffin matrix are 5 mm and 3 wt.%, respectively.

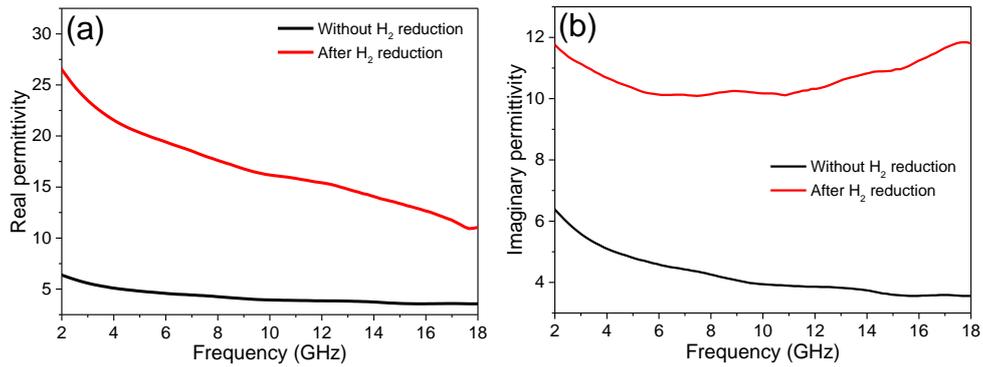


Fig. S2 Dependence of (a) the real part and (b) imaginary part of the complex permittivity of three-dimensional reduced graphene oxide (3D-rGO) samples without and after hydrogen reduction at 900 °C for 30 min