Electronic Supplementary Information for

Enhanced Microwave Absorption Material of Ternary Nanocomposites Based on MnFe$_2$O$_4$@SiO$_2$, Polyaniline and Polyvinylidene Fluoride

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Fig. S1. The magnified TEM image (a) and high-resolution TEM image (b) of MnFe$_2$O$_4$@SiO$_2$ nanoparticles

Fig. S2. The EDX spectrum of MnFe$_2$O$_4$@SiO$_2$ nanoparticles
Fig. S3. The photograph of (a) MnFe$_2$O$_4$@SiO$_2$ nanoparticles and (b) MnFe$_2$O$_4$ nanoparticles disperse in DMF.

Fig. S4. Frequency dependence on (a) dielectric loss and (b) magnetic loss of samples.