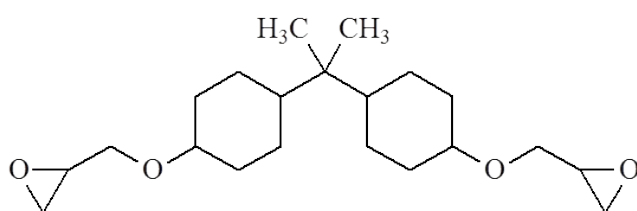


**SUPPLEMENTARY INFORMATION.**

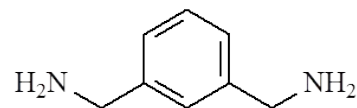
**Carbon nanotube scaffolds with controlled porosity as electromagnetic absorbers  
materials in the gigahertz range**

*Marta González, María Crespo, Juan Baselga, Javier Pozuelo\**

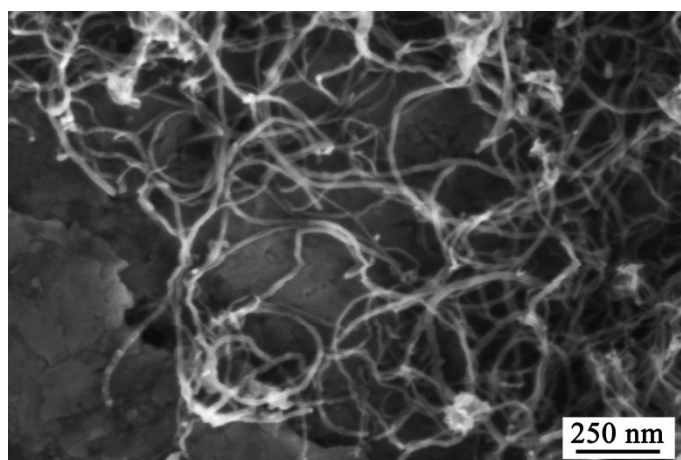
Departamento de Ciencia e Ingeniería de Materiales e Ingeniería Química (IAAB),  
Universidad Carlos III de Madrid, 28911 Leganés, Madrid, Spain.



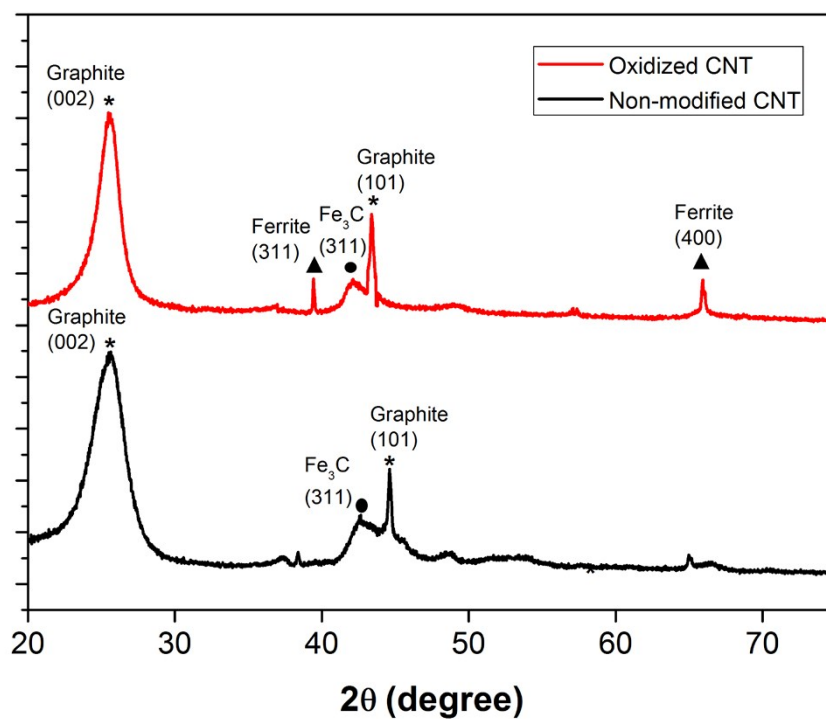
HDGEBA



m-Xylylenediamine



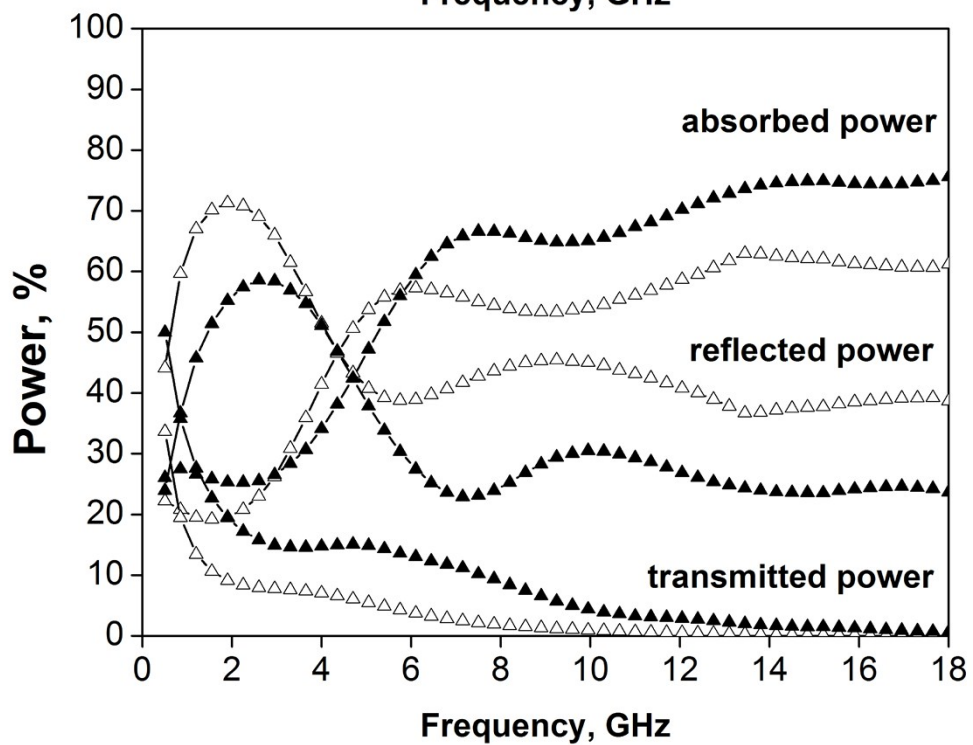
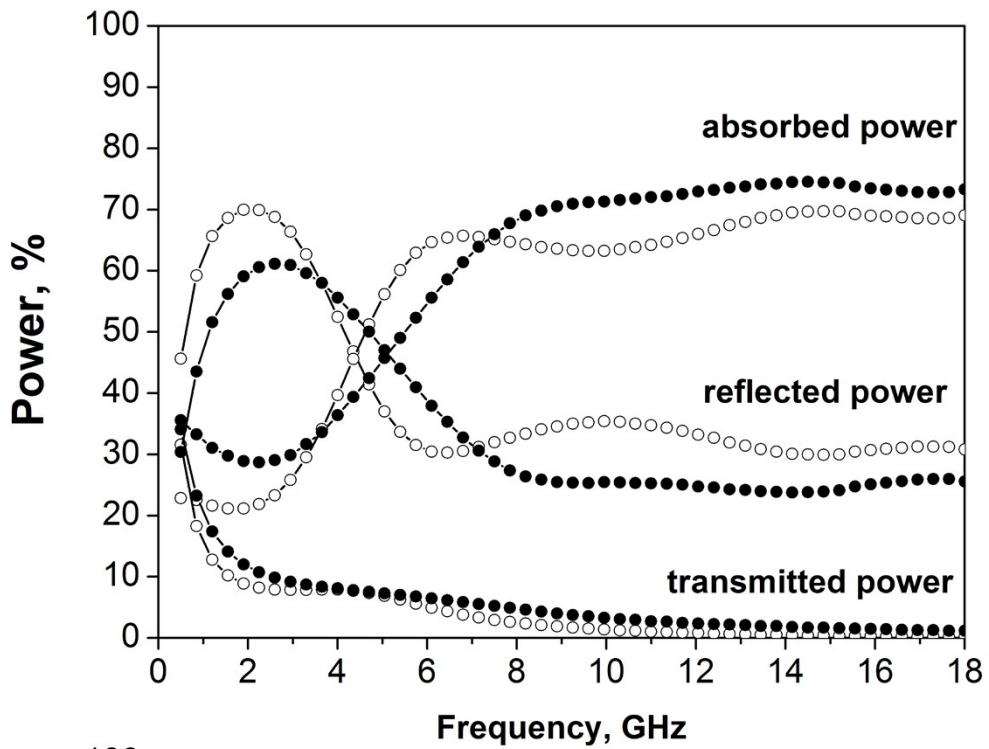
**Figure 1SI.** Hydrogenated Bisphenol A diglycidyl ether (HDGEBA) and m-Xylylenediamine. FESEM image of pristine CNT.



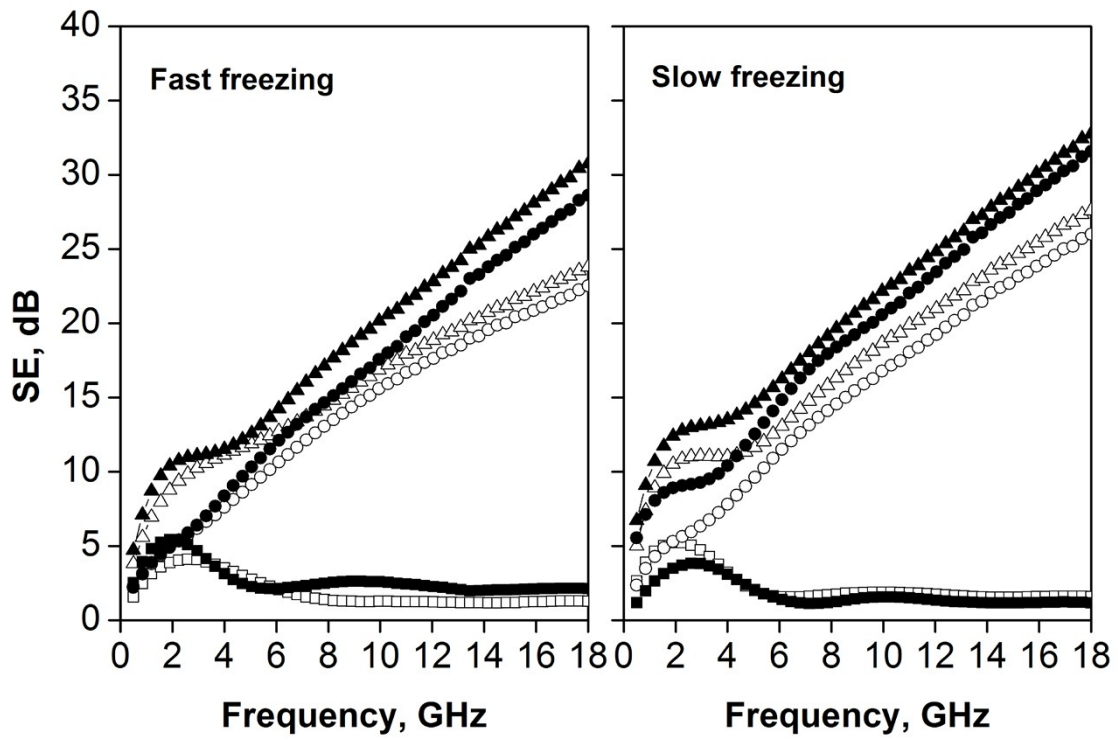
**Figure 2SI.** X-Ray diffractograms of pristine CNT (black), UV/H<sub>2</sub>O<sub>2</sub> oxidized CNT (red).

**Table 1SI.** Glass transition temperatures of CNT:HDGEBA:mXD composites. Glass transition of bulk HDGEBAmXD was 77.6 °C.

CNT content, %	Glass Transition (T <sub>g</sub> ), °C	
	Slow freezing	Fast freezing
3	75.2	74.7
4	75.3	75.3
6	77.7	76.8
7	78.2	77.6



**Figure 3SI.** Reflected, absorbed and transmitted powers with CNT compositions of 4 and 6%. CNT4%-Slow (●), CNT4%-Fast (○), CNT6%-Slow (▲), CNT6%-Fast (Δ). Composites Thickness of 5mm.



**Figure 4SI.** Electromagnetic efficiency in frequency range of 1-18 GHz with CNT percentages of: 4% (SE<sub>R</sub> (□), SE<sub>A</sub> (○), SE<sub>T</sub> (Δ)) and 6% (SE<sub>R</sub> (■), SE<sub>A</sub> (●), SE<sub>T</sub> (▲)). Composites thickness: 5mm.