Abstracts

Study on the mass averaging of SAR distributions

N. Stevens and L. Martens. "Study on the mass averaging of SAR distributions." 1999 MTT-S International Microwave Symposium Digest 99.2 (1999 Vol. II [MWSYM]): 595-598 vol.2.

In this paper, we study the effect of the position of the averaging volume on the averaged SAR values. CENELEC proposes that the SAR, averaged over a cube with a mass of 10 g is less than 2 W/kg. Though, depending on the position of the cube, large differences can be observed. For a simple benchmark problem of a dipole antenna irradiating a sphere, we obtained differences up to 20%. If an irregular volume is considered, the SAR becomes again significantly higher.

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