

## Comparison of averaging procedures for SAR distributions at 900 and 1800 MHz

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*N. Stevens and L. Martens. "Comparison of averaging procedures for SAR distributions at 900 and 1800 MHz." 2000 Transactions on Microwave Theory and Techniques 48.11 (Nov. 2000, Part II [T-MTT] (Special Issue on Medical Application and Biological Effects of RF/Microwaves)): 2180-2184.*

The authors studied the effect of the position of the averaging volume on the averaged specific-absorption-rate values at the typical European cellular telephone frequencies around 900 and 1800 MHz. The Council of the European Union recommends a 10-g contiguous volume, as the averaging volume. A simple cubic tissue can be used provided that the calculated dosimetric quantities have conservative values relative to the exposure guidelines of the Council of the European Union. Large differences can occur depending on the averaging procedure. The situation is definitely most critical at 1800 MHz.

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