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ASSESSING THE HUMAN EXPOSURE DUE TO WIRELESS LOCAL AREA NETWORKS IN OFFICE ENVIRONMENTS

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Abstract

Wireless local area networks (WLAN) are an increasingly used communication technology employing energy of radiofrequency (RF). Although the power emitted by WLAN systems is relatively small (in Europe, a maximum of 100 mW is permitted in the classic 2.4 GHz frequency band), concerns about possible health effects risks from exposure to radiofrequency (RF) fields originating on WLAN are sometimes expressed by the general public. In such a context, this paper presents results of a survey conducted in different office environments, with the aim to provide an overview of the RF exposure levels from common WLAN equipment, including access points and client stations.

Key words: exposure, frequency-selective measurements, office environments, WLAN

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