

# Characterization of electrically small antenna in proximity to human body towards antenna de-embedding in body area network channel modeling

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## Abstract:

Channel modeling with antenna de-embedding is one of most challenging theme in recent body area networks researches. In this report, characteristics of a small printed chip antenna for 400 MHz band was characterized by using FEM software. Radiated electromagnetic distributions were calculated within the surface of small sphere surrounds the antenna in proximity of a dielectric material which simulates human body.