

# Abstracts

## Measurement of Radio Frequency Permittivity of Biological Tissues with an Open-Ended Coaxial Line: Part II -- Experimental Results

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*M.A. Stuchly, T.W. Athey, G.M. Samaras and G.E. Taylor. "Measurement of Radio Frequency Permittivity of Biological Tissues with an Open-Ended Coaxial Line: Part II -- Experimental Results." 1982 Transactions on Microwave Theory and Techniques 30.1 (Jan. 1982 [T-MTT]): 87-92.*

The permittivity of several reference liquids and selected biological tissues *in vivo* was measured in the frequency range from 0.01 to 1 GHz. Open-ended coaxial line sensors and computer-controlled network analyzer systems, described in a companion paper, were used. The results were analyzed and compared with the estimated uncertainties. The described method proved to be convenient, fast, and relatively accurate for *in vivo* measurements.

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