

# Abstracts

## A New Gel Phantom Used for Three Dimensional Measurement of the Local SAR

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*M. Miyakawa and S. Hoshina. "A New Gel Phantom Used for Three Dimensional Measurement of the Local SAR." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 1089-1092.*

A gel phantom containing non-ionic surface active agent, salt and sucrose which shows almost the same dielectric property as that of the biological tissue and good transparency at the room temperature has been developed. When the phantom is irradiated by the electromagnetic wave, the region where electromagnetic power is absorbed becomes white and opaque. Hence, the phantom is useful for observing or measuring the local SAR distribution in three-dimensional. The method for fabricating the phantom and a typical example applied to the electromagnetic environmental problem are presented.

 [Return to main document.](#)