RF Exposure Analysis

Maximum Permissive Exposure

Performance Criterion: The human RF exposure limit is 1 mW/cm^2.

Evaluation Results: Complies

Details: The maximum permissible exposure (MPE) is predicted by using the following equation:

$$S = PG/4\pi R^2$$

where: S = power density (in appropriate units, e.g. mW/cm^2)
P = power input to the antenna (in appropriate units, e.g., mW)
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

P = 0.33 mW, G = 1.7579 (2.45 dBi), R = 20 cm

$$S = 0.0001\ mW/cm^2 = 0.001\ W/m^2$$