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2.19 Maximum Public Exposure to RF Radiation (MPE) CFR 15.247 (i)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, S, of 1 mW/cm² at a distance, d, of 20 cm from the EUT.

Therefore, for :

Peak Power (Watts) = 0.00066 (from Table 12, herein) Gain of Transmit Antenna = 14 dB_l = 25.1 numeric (from Table 3, herein) Distance, r = 20 cm

$$S = (PG/4\pi r^2) = EIRP/4A$$

Where: A = the area of a circle with radius, r = 20cm.

Therefore,

S = $0.016x1 / 4x3.1416 x (20)^2 = 0.016/1600\pi = 3.3 \mu W/cm^2$