



Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isot

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal: 11.30 (dBm)

Maximum peak output power at antenna input terminal: 13.48962883 (mW)

Antenna gain(typical): 18 (dBi)

Maximum antenna gain: 63.09573445 (numeric)

Prediction distance: 200 (cm)

Prediction frequency: 2400 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 1 (mW/cm²)

Power density at prediction frequency: **0.001693** (mW/cm²)

Maximum allowable antenna gain: **45.71269855** (dBi)

Minimum separation distance w/internal 18dBi antenna: **8.3** cm

isotropic radiator

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