



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 isotropic radiator

R = distance to the center of radiation of the antenna

Maximum average output power at antenna input terminal: 45.51 (dBm)

Maximum average output power at antenna input terminal: 35563.13186 (mW)

Antenna gain(typical): 0 (dBi)

Maximum antenna gain: 1 (numeric)

Prediction distance: 150 (cm)

Prediction frequency: 30 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.2 (mW/cm²)

Power density at prediction frequency: 0.125779 (mW/cm²)

Maximum allowable antenna gain: 2.014223778 (dBi)

Margin of Compliance: 2.014223778

51.53dBm PEP output power = 48.52dBm Average