



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

Minimum cable loss 1 dB

Maximum peak output power at antenna input terminal: 32.00 (dBm)

Maximum peak output power at antenna input terminal: 1584.893192 (mW)

Antenna gain(typical): 2 (dBi)

Maximum antenna gain: 1.584893192 (numeric)

Prediction distance: 20 (cm)

Prediction frequency: 941 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.58 (mW/cm^2)

Power density at prediction frequency: 0.499724 (mW/cm^2)

Maximum allowable antenna gain: 2.646978489 (dBi)

Margin of compliance = 0.65 dB