



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 isotropic radiator

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal: 46.0 dBm

Maximum peak output power at antenna input terminal: 40105.1 mW

Antenna gain(maximum): 16.4 dBi

Maximum antenna gain: 43.7 numeric

Time Averaging: 100 %

Prediction distance: 550 cm

Prediction frequency: 1930 MHz

Power density at prediction frequency: 0.46 mW/cm²

This equates to: 4.61 W/m²