

## 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 peak output power at antenna input terminal:	5.30 (dBm)
Maximum peak output power at antenna input terminal:	3.388441561 (mW)
Antenna gain(typical):	23 (dBi)
Maximum antenna gain:	199.5262315 (numeric)
Prediction distance:	20 (cm)
Prediction frequency:	5725-5825 (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1 (mW/cm^2)
Power density at prediction frequency:	0.134502 (mW/cm^2)

Maximum allowable antenna gain: 31.71269855 (dBi)

Margin of Compliance at 30cm = 8.7dB