



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

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	16.2	(dBm)
Maximum peak output power at antenna input terminal:	42	(mW)
Antenna gain(typical):	7.5	(dBi)
Maximum antenna gain:	5.62	(numeric)
Prediction distance:	20	(cm)
Source Based Time Average Duty Cycle:	100	(%)
Prediction frequency:	2437	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)
Power density at prediction frequency:	0.047	(mW/cm^2)
Power density at prediction frequency:	0.47	(W/m^2)
Margin of Compliance:	13.3	(dB)