

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 device output terminal:	19.50 dBm
Cable and Jumper loss:	0.0 dB
Maximum peak output power at antenna input terminal:	19.50 dBm
	89.12509381 mW
Single Antenna gain (typical):	16 dBi
Number of Antennae:	1
Total Antenna gain (typical):	16 dBi
	39.81071706 (numeric)
Prediction distance:	25 cm
Prediction frequency:	2402 MHz
MPE limit for uncontrolled exposure at prediction frequency:	1 mW/cm ²
Power density at prediction frequency: 0.451762 mW/cm²	
	4.517624 W/m ²
Tx On time:	1.000000 ms
Tx period time:	1.000000 ms
Average Factor:	100.000000 %
Average Power density at prediction frequency:	4.517624 W/m ²
Maximum allowable antenna gain:	19.45089881 dBi
Margin of Compliance:	3.450898814 dB