

**MPE Prediction**

Prediction of MPE limit at a given distance  
Equation from page 18 of OET Bulletin 65, Edition 97-01  
 $S = PG/4\pi R^2$

Where:

S = Power density

P = Power input to 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:	1.83 (dBm)
Maximum peak output power at antenna input terminal:	1.524053 (mW)
Antenna gain (typical):	2 (dBi)
Maximum antenna gain:	1.584893 (numeric)
Prediction distance:	20 (cm)
Prediction frequency:	2402 (MHz)
MPE limit for uncontrolled exposure at prediction	1 (mW/cm <sup>2</sup> )
Power density at prediction frequency at 20 (cm)	0.000481 (mW/cm <sup>2</sup> )

Measurement Result:

The predicted power density level at 20 cm is 0.000481 (mW/cm<sup>2</sup>)

This is below the uncontrolled exposure limit of 1 mW/cm<sup>2</sup> at 2402 MHz

**15.2 Measurement Result:**

The predicted power density level at 20 cm 0.000481 mW/cm<sup>2</sup>. This is below the uncontrolled exposure limit of 1 mW/cm<sup>2</sup> at 2402MHz