

### **Prediction of MPE limits at a given distance**

Equation from page 18 of OET Bulletin 65, Edition 97-01

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: 19.55 dBm

Maximum peak output power at antenna input terminal: 90.2 mW

Antenna gain (typical): 5 dBi

Maximum antenna gain: 5 dBi

Time Averaging: 100 %

Prediction distance: 20 cm

Prediction frequency: 2440 MHz

MPE limit for uncontrolled exposure at prediction frequency: 1mW/cm<sup>2</sup>

Power density at prediction frequency: 0.056 mW/cm<sup>2</sup>

**Results:** Well below the limit