



## Prediction of Maximum Permissible Exposure

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 = directional power gain of the antenna relative to an isotropic radiator

R = distance to the center of radiation of the antenna

|                                                       |                  |
|-------------------------------------------------------|------------------|
| Max. peak output power at antenna terminal(dBm):      | <u>13.11</u>     |
| Max. peak output power at antenna terminal(mW):       | <u>20.464</u>    |
| Antenna gain for prediction(dBi):                     | <u>5.5</u>       |
| Maximum antenna gain(numeric):                        | <u>3.5481339</u> |
| Duty Cycle(%):                                        | <u>100</u>       |
| Prediction distance(cm):                              | <u>20</u>        |
| Prediction frequency(MHz):                            | <u>2450</u>      |
| Limit for uncontrolled exposure(mw/cm <sup>2</sup> ): | <u>1.000</u>     |

**S(mw/cm<sup>2</sup>) = : 0.014**