



**LCIE SUD EST**  
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**FCCID: 2AHP8-PD100X001**

### 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

| Prediction Frequency MHz | Conducted Output Power dBm | Max Antenna Gain dBi | Distance cm | Power Density mW/cm <sup>2</sup> | Limit mW/cm <sup>2</sup> |
|--------------------------|----------------------------|----------------------|-------------|----------------------------------|--------------------------|
| 2405                     | -2.06                      | 4.7                  | 20          | 0.0004                           | 1.00                     |
| 2440                     | -2.20                      | 4.7                  | 20          | 0.0004                           | 1.00                     |
| 2480                     | -2.62                      | 4.7                  | 20          | 0.0003                           | 1.00                     |

*Conclusion: Therefore our device complies with FCC's RF radiation exposure limits for general population without SAR evaluation with at least 20cm separation from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.*