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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 ² | Limit mW/cm ² |
|--------------------------|----------------------------|----------------------|-------------|----------------------------------|--------------------------|
| 2405 | 4.64 | 4.4 | 20 | 0.0016 | 1.00 |
| 2440 | 4.63 | 4.4 | 20 | 0.0016 | 1.00 |
| 2480 | 4.50 | 4.4 | 20 | 0.0015 | 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.