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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

Fundamental transmit (prediction) frequency:	2438 MHz
Maximum measured conducted peak output power:	19.60 dBm
Cable and/or jumper loss:	0.0 dB
Maximum peak power at antenna input terminal:	19.60 dBm
Tx On time:	0.860 ms
Tx period time:	100.000 ms
Average factor:	0.86 %
Maximum calculated average power at antenna input terminal:	0.784 mW
Single Antenna gain (typical):	16 dBi
Number of antennae:	1
Total system gain (typical):	16.000 dBi
MPE limit for uncontrolled exposure at prediction frequency:	1 mW/cm ²
	10 W/m ²
Minimum calculated prediction distance for compliance:	2 cm
Typical (declared) distance:	25 cm
Average power density at prediction frequency:	0.003976 mW/cm ²
	0.03976 W/m ²
Margin of Compliance:	24.00591 dB
Maximum allowable antenna gain:	40.00591 dBi

Note 1: No simultaneous transmission between the WLAN and LTE Radios due to the antenna separation distance ≥ 20cm
Note 2: EUT does not support simultaneous transmission between the 2.4 and 5 GHz WLAN Radios