

RF exposure

The 2.4 GHz transmitter Peak Power has a 28.5 dBm output with 2 dBi antenna gain

The following information provides the minimum separation distance for the EUT, as calculated from **FCC OET 65 Appendix B, Table 1B** "Guidelines for General Population/Uncontrolled Exposure"

This calculation is based on the highest EIRP possible from the EUT considering maximum power and antenna gain. The formulas were used:

GP limit is = 1 mW/cm² above 1.5 GHz
 $S = E^2 / 3770 \text{ mW/cm}^2$
E or V/m = $(ERP * 30)^{0.5} / d$, (d in meters)
 $d = ((ERP * 30) / 3770 * S)^{0.5}$

Freq. MHz	S GP limit mW/cm ²	PEAK RF power dBm	Antenna Gain dBi	ERP watts	E V/m	MSD d meters
2462	1	28.5	2	1.122	61.4	0.094

GP is the limit for general Population/Uncontrolled Exposure
MSD is the minimum Separation Distance

NOTE: For mobile or fixed location transmitters, minimum separation distance is 20 cm, even if calculations indicate MPE distance is less