

RF exposure

FCC ID:

The output power of the EUT is 205 mW and the gain of the antenna is 1.5 dBi

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 = 0.61 mW/cm² for 917 MHz (from F/1500)
Pwatts*Ggain or ERP = 10^{^(PdBm-30+GdBi)/10} = 0.288 Watts
0.316 Watts = 24.6 dBm
S = E²/3770 mW/cm²
E or V/m = (ERP*30)^{0.5}/d, (d in meters)
d = ((ERP*30)/3770*S)^{0.5}

MSD = 0.061 meters

Freq. MHz	S GP limit mW/cm ²	Maximum RF power dBm	Antenna Gain dBi	ERP watts	E V/m	MSD d meters
927	0.618	23.1	1.5	0.288	48.3	0.061

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