

Human RF Exposure**5150 – 5250 MHz**

Maximum Output Power = 11.04 dBm
Maximum antenna gain = 4 dBi
EIRP = 11.04 dBm + 4dBi = 15.04 dBm
Output Power in mW = 0.031 W
 $S = \text{EIRP} / 4\pi D^2 = 0.031 / 4\pi(0.2)^2$
 $S = 0.061 \text{ W/m}^2$

5250 – 5350 MHz

Maximum Output Power = 13.79 dBm
Maximum antenna gain = 4 dBi
EIRP = 13.79 dBm + 4dBi = 17.79 dBm
Output Power in mW = 0.060 W
 $S = \text{EIRP} / 4\pi D^2 = (0.060) / (4\pi(0.2)^2)$
 $S = 0.1193 \text{ W/m}^2$

5470 – 5725 MHz

Maximum Output Power = 9.52 dBm
Maximum antenna gain = 4 dBi
EIRP = 9.52 dBm + 4dBi = 13.52 dBm
Output Power in mW = 0.0224 W
 $S = \text{EIRP} / 4\pi D^2 = (0.0224) / (4\pi(0.2)^2)$
 $S = 0.044 \text{ W/m}^2$

5725 – 5850 MHz

Maximum Output Power = 10.71 dBm
Maximum antenna gain = 4 dBi
EIRP = 10.71 dBm + 4dBi = 14.71 dBm
Output Power in mW = 0.0295 W
 $S = \text{EIRP} / 4\pi D^2 = (0.0295) / (4\pi(0.2)^2)$
 $S = 0.0586 \text{ W/m}^2$

FCC Limit for MPE @ 5 GHz is 10 W/m^2

RSS 102 Limit for MPE @ 5 GHz is 8.83 W/m^2

Power density calculated in the all 4 bands above is below the limits.