

RF Exposure Information

The following table summarizes the minimum separation distance as calculated following FCC OET Bulletin 65.

NOTE: THE ONLY PERMISSIBLE SYSTEM CONFIGURATIONS ARE THOSE LISTED BELOW.

Table 6.1 Potential Health Hazard Radiation Level

Measured Amplifier Power (dBm)	FCI Witch's Hat	MAXRAD	ARC Wireless 13 dBi	ARC Wireless 19 dBi
	3 dBi	4 dBi	13 dBi	19 dBi
29.3 (1 W Rating)	11.6 (cm)	13.0 (cm)	N/A	N/A
26.5 (500 mW Rating)	8.4 (cm)	9.4 (cm)	26.6 (cm)	N/A
24.7 (250 mW Rating)	6.8 (cm)	7.7 (cm)	21.6 (cm)	43.2 (cm)
21.9 (100 mW Rating)	5.0 (cm)	5.6 (cm)	15.7 (cm)	31.3 (cm)
System Type	Mobile	Mobile	Fixed	Fixed

The following equations were used in calculating the operating distance (R).

$$EIRP(mW) = 10^{\frac{Gain(dBi) + AmpPower(dBm)}{10}}$$

and

$$R = \sqrt{\frac{EIRP(mW)}{4 \cdot \Pi \cdot S(mW/cm^2)}}, \quad S = 1mW/cm^2$$

6.3 Peak Output Power (15.247(b))

For this measurement, the DUT was set in a test mode for continuous data transmission. No additional cable was used in the system. A peak (diode detector) power meter was connected where the antenna attaches to the system. Since the DUT transmits in continuous mode, there is no adjustment needed to the readings. Table 6.2, below, presents the results. The peak output power limit is 30dBm.

Table 6.2 Peak and Average Output Power (Antenna Conducted)

Freq (MHz)	Peak P(dBm)	Comment
2412	28.7	1W setting
2437	29.3	
2462	28.0	
2412	26.4	500 mW setting
2437	26.4	
2462	26.5	
2412	24.5	250 mW setting
2437	24.7	
2462	24.0	
2412	21.6	100 mW setting
2437	21.9	
2462	21.7	