

Appendix A: RF Exposure Compliance

Using FCC 1.1310 Table 1A as guidance, the maximum permissible RF exposure for a controlled environment is 2.72 mW/cm^2 for the center of the frequencies used in this device (806 to 824 MHz). The worst case power at the center frequency of the band of operation is used for the calculation below.

The actual power density for the EUT is calculated as shown below.

$$S = (P \times G) / (4 \times \pi \times d^2)$$

where:

S = power density
P = transmitter conducted power in (mW)
G = antenna numeric gain
d = distance to radiation center (cm)

The max antenna gain to be used with this device is 11 dBi, and antennas must only be used in controlled environments.

Frequency (MHz)	Antenna Gain (dBi)	Conducted Power* (mW)	Separation Distance (cm)	Power Density (mW/cm^2)
815	11.0	4400	40	2.72

* max composite conducted power

NOTICE:

Radiation Exposure Statement

The calculated separation is 40 cm. Uplink antennas will only be installed in controlled environments. All users must stay greater than 40 cm away from the antenna.