Rhein Tech Laboratories, Inc. 360 Herndon Parkway Suite 1400 Herndon, VA 20170 http://www.rheintech.com Client: Airorlite Communications, Inc.
Model: 50289-BAM-8-800-DL
Standards: FCC Part 90
FCC ID: UT650289BAM8800DL
Report Number: 2007315

## Appendix A: RF Exposure Compliance

Using FCC 1.1310 Table 1B as guidance, the maximum permissible RF exposure for an uncontrolled environment is 0.567 mW/cm², using the lowest frequency of operation which gives the lowest (and most conservative) value (range of operation is 851 - 869 MHz, 851 MHz was used for the calculation). The worst case power is used for the calculation below.

The actual power density for the EUT 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 general public can be in close proximity to the downlink antennas; therefore, general population limits were used. The max antenna gain to be used with this device is 0.6 dBi.

Frequency (MHz)	Antenna Gain	Conducted	Separation	Power Density
	(dBi)	Power* (mW)	Distance (cm)	(mW/cm²)
573	0.6	2466	20	0.563

<sup>\*</sup> max composite conducted power

## NOTICE:

## Radiation Exposure Statement

The calculated separation is 20 cm. All users must stay greater than 20 cm away from the antenna.