

### **RF Exposure / MPE Calculation**

No. : 11006939H  
Applicant : Audio-Technica Corp.  
Type of Equipment : Boundary Transmitter  
Base Transmitter  
Model No. : ATW-T1006  
ATW-T1007  
FCC ID : JFZT1006T1007

Audio-Technica Corp. declares that Model: ATW-T1006, ATW-T1007 complies with FCC radiation exposure requirement specified in the FCC Rule 2.1091 (for mobile).

#### **RF Exposure Calculations:**

The following information provides the minimum separation distance for the highest gain antenna provided with the “ATW-T1006, ATW-T1007 “ as calculated from (B) Limits for General Population / Uncontrolled Exposure of TABLE 1- LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE) of §1.1310 Radiofrequency radiation exposure limits.

This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1mW/cm<sup>2</sup> uncontrolled exposure limit. The Friis formula used was:

$$S = \frac{P \times G}{4 \times \pi \times r^2}$$

Where

$P$  = 2.10 mW (Maximum average output power)  
 $G$  = 0.692 Numerical Antenna gain; equal to -1.6dBi  
 $r$  = 20 cm (Separation distance)

$$\text{Power Density Result } S = 0.00029 \text{ mW/cm}^2$$

Even taking into account the tolerance, this device can be satisfied with the limits.

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