



5473A Clouds Rest Road : Mariposa, CA 95338 : Phone 209-966-5420 : Fax 209-742-6133

FCC 1.1310(b), Maximum Permissible Exposure Calculations **RSS133 Subclause 8 Exposure of Humans to RF Field**

Date of Report: April 30th, 2005

Calculations prepared for:

Belkin Corporation
 501 W. Walnut Street
 Compton, CA 90220

Calculations prepared by:

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Model Number: Belkin TuneStage
 F8Z901-TX,
 F8Z901-RX

FCC Identification: NA

Fundamental Operating Frequency: 2402-2480 MHz

Maximum Rated Output Power: 0.00100W

Measured Output Power: 0.00111W

MPE Limit in accordance with 1.1310(b): Limits for general population/uncontrolled exposure

MPE Limit for 2402-2480 MHz = 1 mW/cm² (10 W/m²) 1

Power Output (Watts)	Power Density Limit (mW/cm ²)	Minimum Distance (Meters)
0.00111	1	0.003

$$\text{Power Density (W/m}^2\text{)} = \frac{30 \times P_t \times G}{d^2 \times Z_0}$$

P_t = Power Delivered to the Antenna
 d = Distance in meters

G = Antenna Gain
 Z_0 = Impedance of Free Space

The typical antennas to be used with the EUT which under normal operation has an antenna separation of at least 0.1 from human body. As can be seen from the MPE result, this device passes the limit specified in 1.1310 at a distance of 0.003 meter.

Calculation:

$$d = \sqrt{\frac{30 \times 0.00111 \times 1}{10 \times 377}}$$

= 0.003 meter.