

US Tech
Test Report:
Date:
Model:
Customer:

FCC ID: XFH-05000006
09-0076
June 22 2009
Base Station 1 / 05-00006
Innovative Broad Band Inc.

2.16 Maximum Public Exposure to RF (MPE) CFR 15.247 (i)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 1 mW/cm² at a distance, d, of 20 cm from the EUT.

Therefore, for:

Peak Power (Watts) = 0.00977 (from Table 10, herein)
Gain of Transmit Antenna <= 2.0 dB_i <= 1.58, numeric (from Table 3, herein)
d = Distance = 20 cm = 0.2 m

$$\begin{aligned} \mathbf{S} &= (PG / 4\pi d^2) = EIRP/4A = 0.00977 (1.58)/4\pi \cdot 0.2 \cdot 0.2 &= \\ &0.0154366/0.502 = 0.0307 \text{ W/m}^2 \\ &= (\text{W/m}^2) (1\text{m}^2/\text{W}) \times (0.1 \text{ mW/cm}^2) \\ &= 0.003 \text{ mW/cm}^2 \end{aligned}$$

Which is << less than 1 mW/cm²