

February 19, 2001

FCC Application Processing Branch

Regarding: FCC ID MKRS556-EP
Form 731 Confirmation Number EA99662
Correspondence Reference Number 18069

On February 13, I sent you a quick, "off-the-top-of-my-head" calculation showing how we arrived at the MPE figure for the MKRS556-EP device. Upon reviewing my data, I find that I only provided the calculation for the uncontrolled case, and slightly overstated the gain of our antenna. Here are the corrected calculations.

1. The MPE in the uncontrolled case is 1 mw/cm^2 (OET Bulletin 65 Appendix A). The gain of the antenna that is sold with this system is 7.8 dBi. Rewriting equation (3) from OET Bulletin 65 Section 2,

$$R = \frac{1}{2} * \text{sqrt}((P * G) / (\pi * S)).$$

$$P = 5000 \text{ mW}$$

$$G = 6.0 \text{ numeric (7.8dBi)}$$

$$S = 1 \text{ mW/cm}^2$$

Solving, the range at which the field intensity falls below the MPE is 48.8 cm, or 19.2 inches.

2. The MPE in the controlled case is 5 mw/cm^2 (OET Bulletin 65 Appendix A). The equivalent calculation in this case with $S = 5 \text{ mw/cm}^2$ finds $R = 21.9 \text{ cm}$, or 8.6 inches.
3. I note that the manual states a range in inches of 8.5" instead of 8.6". This is being corrected.

Regards,

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