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June 30, 1999

Federal Communications Commission
Equipment Authorization Division
7435 Oakland Mills Road
Columbia, MD 21046

Subject: Maximum Permissible Exposure calculations for **FCC ID: EV9N2L5-3S1-01**

To whom it may concern,

Multipoint is submitting a low power transmitter for the NII Link. The unit operates in the 5.250 - 5.350 GHz range with a peak transmit power of with a radiated output power of 0.64 mW.

Assuming a worst case of no duty cycle.

For an Isotropic radiator the surface area of a sphere can be used to determine the area over which the transmitter energy is radiated.

$$\text{Surface area of a sphere} = 4\pi r^2$$

In the case where there is antenna gain, the worst case energy density is increased by the antenna gain. The exposure level can be calculated as follows for the antenna gain:

$$\text{MPE distance} = (\text{output power} * \text{duty cycle} * 10 * (\text{antenna gain} / 10)) / (4\pi * \text{Exposure Limit (mW/cm}^2)^{1/2}$$

$$\text{EV9N2L5-3S1-01 MPE distance} = (0.64 \text{ mW} * 1 * 28.5 / 4 * 314 * 1)^{1/2}$$

$$\begin{aligned} &= 1.2 \text{ cm} \\ &= 0.47 \text{ in} \end{aligned}$$

If you have any questions please do not hesitate to call me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Chip Matheny'.

Chip Matheny
Technical Officer