Attachment 3

Maximum Permissible Exposure Evaluation

Maximum Permissible Exposure Evaluation

Power Density at Specific Separation:

$S = PG/(4R^2\pi)$

Where S = Maximum power density (mW/cm^2)
       P = Power input to the antenna (mW)
       G = Numeric power gain of the antenna
       R = Distance to the center of the antenna = 20 cm

Measured maximum output power (P) is 21.39dBm = 137.721mW
The Numeric power gain of the antenna (G) is 12dB = 15.85

$S = (137.721 * 15.85) / (4 * 20^2 * \pi)$
$S = 0.434$ (mW/cm^2)

The maximum permissible exposure (MPE) for the general population is 1 mW/cm^2.
The power density at 20 cm distance to the center of the antenna does not exceed the 1 mW/cm^2. Therefore, the exposure condition is compliant with FCC rules.