**RF Exposure Evaluation** 

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## **Maximum Permissible Exposure Evaluation**

Power Density at Specific Separation:

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

Where S = Maximum power density (mW/cm<sup>2</sup>)

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 20.24dBm = 105mW The Numeric power gain of the antenna (G) is 2dB = 1.58

S = 
$$(105* 1.58) / (4 * 20^2 * \pi)$$
  
S = 0.033 (mW/cm<sup>2</sup>)

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

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