## **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 10.32dBm = 10.764mW The Numeric power gain of the antenna (G) is -1.9dB = 0.646

S = 
$$(10.764 * 0.646) / (4 * 20^2 * \pi)$$
  
S = 0.0014 (mW/cm<sup>2</sup>)

The maximum permissible exposure (MPE) for the general population in 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.

CENTRAL RESEARCH TECHNOLOGY CO.

No. 11, Lane 41, Fushuen St., Jungshan Chiu, Taipei, Taiwan, 104, R.O.C.

TEL.: 886-2-25984542 FAX.: 886-2-25984546