

MPE Limit Calculation: EUT's operating frequencies @ 2450 MHz only; Highest conducted power = 1.21 dBm (peak). Therefore, **Limit for Uncontrolled exposure: 1 mW/cm²**.

EUT maximum antenna gain = 6 dBi.

Equation from page 18 of OET 65, Edition 97-01

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

where,

S = Power Density mW/m²

P = Power Input to antenna mili Watts

G = Numeric Antenna Gain

minimum distance)

R = Distance to the center of radiation of the antenna (20 cm for Mobile

$$\text{Antenna Numeric Gain} = 10^{\text{dBi}/10}$$

$$\text{Power at antenna port} = 1.32 \text{ mW}$$

$$\text{Antenna Gain} = 6 \text{ dBi}$$

$$\text{Numeric antenna gain} = 10^{6/10} = 3.98$$

$$S = (1.32)(3.98) / 4(3.1416)(20)^2$$

$$S = 0.001 \text{ mW/cm}^2$$

Therefore, EUT meets the Uncontrolled Exposure limit.