

MPE Limit Calculation:

EUT's lowest frequency channel @ 2400 MHz;
Limit for Uncontrolled exposure: 1 mW/cm²

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

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

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

Power at antenna port = 0.297 mW

Antenna Gain = 5 dBi

$$\text{Numeric antenna gain} = 10^{5/10} = 3.16$$

$$S = (0.297)(3.16) / 4(3.1416)(20)^2$$

$$S = 0.000187 \text{ mW/cm}^2$$

Therefore EUT meets the Uncontrolled Exposure limit.