

MPE Calculation

FCC ID: XUJMD4BLTH

RF Exposure Requirements:	47CFR§1.1307(b)
RF Radiation Exposure Limits:	47CFR§1.1310
RF Radiation Exposure Guidelines:	47CFR§2.1091
EUT Frequency Band:	2402 – 2480MHz
Limits for General Population/Uncontrolled Exposure in the band of: 1500 – 100000MHz	
Power Density Limit:	1.0mW/cm ² ;

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

Where, S=Power Density

P=Power Input to Antenna

G=Antenna Gain

R=distance to the center of radiated antenna

Low Channel (2402MHz):

Power=0.247mW, Antenna Gain=2dBi(1.58 Numeric), Prediction distance 20cm

$S = (0.247 * 1.58) / (4 * 3.14 * 20^2) = 0.000078 \text{ mW/cm}^2$

Result

The above result had shown that device complied with 1.0mW/cm² Power density requirement for distance of 20 cm.

Completed By: Francis

Data: 2011-08-11