MPE CALCULATION

RF Exposure Requirements:	47 CFR §1.1307(b)
RF Radiation Exposure Limits:	47 CFR §1.1310
RF Radiation Exposure Guidelines:	FCC OST/OET Bulletin Number 65
EUT Frequency Band:	2404-2480 MHz
Limits for General Population/Uncontrolled Exposure in the band of:	1500 - 100,000 MHz
Power Density Limit:	1 mW / cm^2;

Equation: $S = PG / 4\pi R^2$ or $R = \sqrt{PG / 4\pi S}$

Where, S = Power Density

P = Power Input to Antenna

G = Antenna Gain

R = distance to the center of radiated antenna

Prediction distance 25cm

Antenna Gain	Channel	Channel Frequency (MHz)	Measured Output Power(dBm)	Power Density Limit (mW/ cm^2)	Power Density (mW/ cm^2)
9dBi	Low	2404	28.50	1	0.811
9dBi	Mid	2442	26.40	1	0.500
9dBi	High	2480	26.10	1	0.467
24dBi	Low	2404	23.90	1	0.750
24dBi	Mid	2442	23.70	1	0.716
24dBi	High	2480	23.80	1	0.733

Result

The Above Result had shown that Device complied with 1 mW/cm^2 Power density requirement for distance of 25cm.

Completed By : David Zhang

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