

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:	2410-2470 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	2410	28.80	1	0.869
9dBi	Mid	2440	27.50	1	0.644
9dBi	High	2470	28.00	1	0.723
24dBi	Low	2410	23.70	1	0.716
24dBi	Mid	2440	23.80	1	0.733
24dBi	High	2470	23.90	1	0.750

Result

The Above Result had shown that Device complied with 1 mW/cm² Power density requirement for distance of 25cm.

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