

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:	905-925 MHz
Limits for General Population/Uncontrolled Exposure in the band of:	300–1500 MHz
Power Density Limit:	f/1500 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 20cm

Antenna Gain	Channel	Channel Frequency (MHz)	Measured Output Power(dBm)	Power Density Limit (mW/ cm ²)	Power Density (mW/ cm ²)
5dBi	Low	905	21.50	0.603	0.141
5dBi	Mid	915	26.60	0.610	0.455
5dBi	High	925	26.50	0.617	0.444
15dBi	Low	905	20.30	0.603	0.320
15dBi	Mid	915	20.20	0.610	0.312
15dBi	High	925	20.00	0.617	0.298

Result

The Above Result had shown that Device complied with f/1500 mW/cm² Power density requirement for distance of 20cm.

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