

MPE CALCULATION

For AWID – UHF RFID READER; Model: UA-612
FCC ID: OGSUA612

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:	902.60 – 927.40 MHz
Limits for General Population/Uncontrolled Exposure in the band of:	300 – 1500 GHz
Power Density Limit:	0.610 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

Low Channel (915.250 MHz): Power = 21.5dBm, Antenna Gain = -0.7dBi, Prediction distance 20cm

$$S = 0.024 \text{ mW/cm}^2$$

Result

The Above Result had shown that Device complied with 0.610 mW/cm² Power density requirement for distance of 20cm.

Completed By : Snell Leong

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