

# MPE CALCULATION

## For Zebra Technologies

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:	2412 – 2462 MHz(WLAN),
Limits for General Population/Uncontrolled Exposure in the band of:	1500MHz – 100000MHz
Power Density Limit:	1 mW/ cm <sup>2</sup>

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

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Power = -7.20dBm, Antenna Gain =3dBi , distance 20cm

**S = 0.0000756mW/cm<sup>2</sup>**

The Above Result had shown that Device complied with 1 mW/cm<sup>2</sup> Power density requirement at distance of 20cm.

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