MPE CALCULATION

For Zebra – 802.11 a/b/g Dual Radio AP; Model: ZLANG-CA

FCC ID: I28-ZLANGCA

RF Exposure Requirements:	47 CFR §1.1307(b)
RF Radiation Exposure Limits:	47 CFR §1.1310
RF Radiation Exposure Guidelines:	FCC CFR Part 2.1091 & 2.1310
EUT Frequency Band:	2412 – 2462 MHz
Limits for General Population/Uncontrolled Exposure in the band of:	1.5 – 100 GHz
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

802.11b, Power = 16.3dBm , Antenna Gain =0dBi , distance 20cm

S = 0.0085 mW/cm^2

802.11g, Power = 11.4dBm, Antenna Gain = 0dBi, Distance = 20cm

S = 0.0027 mW/cm^2

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

Completed By : Choon

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