

MPE CALCULATION

For KC Wirefree LLC –Bluetooth Radio Module; Model: KC21
FCC ID: S22BTMODULE-CL2

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:	2402 – 2480 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

2.4 GHz, Power = 2.5 mW, Antenna Gain = 3.8dBi, R=20cm;
S= 0.000188971mW/cm²

Result

The Above Result had shown that Device complied with 1mW/cm² Power density calculation result is 0.000188971mW/cm²

Completed By : Choon Sian Ooi

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