

MPE CALCULATION

FCC ID: W38-28010077 / IC ID: 8854A-28010077

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:	2402-2480MHz, 2412-2462 MHz, 5180-5825MHz
Limits for General Population/Uncontrolled Exposure in the band of:	1500 - 100,000 MHz
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

Prediction distance 20cm

(Bluetooth BDR/EDR): Power = 1.902 dBm, Antenna Gain = 2.5 dBi, Power density = 0.000774 mW/cm²

(Bluetooth LE): Power = 1.900 dBm, Antenna Gain = 2.5 dBi, Power density = 0.000774 mW/cm²

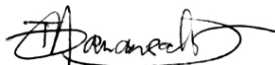
(WLAN 2.4GHz): Power = 15.74 dBm, Antenna Gain = 2.5 dBi, Power density = 0.018735 mW/cm²

(WLAN 5GHz): Power = 12.33 dBm, Antenna Gain = 3.5 dBi, Power density = 0.007617 mW/cm²

Mode	Prediction Distance (cm)	Target power (dBm)	Tune up power tolerance (dB)	Max Tune up Power (dBm)	Max. Antenna Gain (dBi)	Power Density (mW/ cm ²)
Bluetooth BDR/EDR	20	1.902	1.5	3.402	2.5	0.000774
Bluetooth BDR/EDR	20	1.900	1.5	3.400	2.5	0.000774
WLAN 2.4GHz	20	15.74	1.5	17.24	2.5	0.018735
WLAN 5GHz	20	12.33	1.5	13.83	3.5	0.007617

The Above Result had shown that the Device complied with MPE requirement.

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