

## MPE CALCULATION

FCC ID: JQ6-BLUTRUSTOKEN / IC ID: 2236B-BLUTRUSTOKN

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

Prediction distance 20cm

(Bluetooth LE): Power = -0.804dBm, Antenna Gain = 2 dBi , Power density =0.000330 mW/cm<sup>2</sup>

Type	CH Freq (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Tune - Up Tolerance	Tolerance Max Power (dBm)	Measurement Distance (cm)	Calculated MPE (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )	Pass/Fail
Bluetooth LE	2402	-0.804	2	±1dB	0.196	20	0.000330	1	Pass

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

Completed By: Rachana Khanduri



SIEMIC, Inc

775 Montague Expressway, Milpitas, CA 95035

Phone: (408) 526-1188

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