

# MPE ESTIMATION

FCC ID: 2BBV3-B1

## 1. Limit for General Population/Uncontrolled Exposures

Frequency	Power Density(mW/cm <sup>2</sup> )	Averaging Time(minutes)
300MHz-1.5GHz	F/1500	30
1.5GHz-100GHz	1.0	30

Note: F= Frequency in MHz

## 2. Estimation Result

### BLE:

Frequency (MHz)	Reading result (dBμV)	EIRP(dBm)	Max Tune Up Power (mW)	MPE (mW/cm <sup>2</sup> )	Power Density (mW/cm <sup>2</sup> ) Limit	Result
2440	108.01	12.81	19.099	0.009048	1.0	PASS
$Pd = \frac{Pout * G}{4\pi r^2}$						
Note:						
Note: The estimation distance is 20cm.						
Note: Reading result see the test report 23062908ER-61. EIRP= Reading result - 95.2						

### 2.4G WIFI:

Mode	Max PK Output Power(dBm)	Tune Up Power(dBm)	Max Tune Up Power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm <sup>2</sup> )
11b	16.63	17±1(18)	63.096	2.14	1.6368	0.026876
11g	14.67	15±1(16)	39.811	2.14	1.6368	0.016958
11n/HT20	11.97	12±1(13)	19.953	2.14	1.6368	0.008499
$Pd = \frac{Pout * G}{4\pi r^2}$						
Note:						
Note: The estimation distance is 20cm.						
Note: PK Output power=conducted power. Conducted power see the test report 23062908ER-62, antenna gain=2.14dBi.						

Remark: The Bluetooth cannot transmit simultaneously with 2.4G WIFI.

-----The End-----