

# MPE ESTIMATION

FCC ID: 2ATJU-DS2

## 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

	Frequency (MHz)	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (numerical)	MPE (mW/cm <sup>2</sup> )
BLE	2402	5.29	5±1(6)	3.981	5.17	3.29	0.00261
EDR	2402	7.94	7±1(8)	6.310	5.17	3.29	0.00413
2.4G WiFi	2452	13.03	13±1(14)	25.119	5.17	3.29	0.01644
5.2G WiFi	5200	8.04	8±1(9)	7.943	5.80	3.80	0.00601
5.8G WiFi	5755	8.18	8±1(9)	7.943	4.66	2.92	0.00462

$$Pd = \frac{Pout * G}{4\pi r^2};$$

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2408124571-1E/2E/3E/4E/5E**, BT&2.4G WIFI antenna gain= 5.17dBi, 5.2G WiFi antenna gain= 5.80dBi, 5.8G WiFi antenna gain= 4.66dBi.

Bluetooth, 2.4GWiFi and 5GWiFi cannot be transmitted at the same time

When the minimum test separation distance is >20 cm, a distance of 20 cm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.01644mW/cm<sup>2</sup> which is < 1.0mW/cm<sup>2</sup>, RF Exposure testing is not required.

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