

MPE ESTIMATION

FCC ID: 2BAAR-GC06C

1, Per FCC Part 2.1091 Radiofrequency radiation exposure evaluation: mobile devices, the limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/ cm ²)	Averaging time(minutes)
300MHz----1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

Note: F= Frequency in MHz

2, Estimation Result

Mode	Frequency (MHz)	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)
2.4g WIFI	2462	14.11	14±1(15)	31.62	1.73	1.49	0.00937
5.2g WIFI	5240	9.88	9±1(10)	10.00	4.31	2.70	0.00537
5.8g WIFI	5745	7.96	7±1(8)	6.31	4.45	2.79	0.00350
BLE	2480	7.49	7±1(8)	6.31	1.73	1.49	0.00187
EDR	2480	7.45	7±1(8)	6.31	1.73	1.49	0.00187

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power in mW.

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna in cm

Conducted power see the test report HK2506032867-1E/2E/3E/4E/5E , antenna gain=1.73dBi(2.4g WIFI/BT), 4.45dBi(5.2g/5.8g WIFI)

The device could not transmit simultaneously in BT and WIFI.

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 0.00937 mW/cm² which is < 1.0mW/cm², RF Exposure testing is not required.

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