



# MPE ESTIMATION

FCC ID: 2BDE4-MINIF10

## 1, Per FCC Part 2.1091 Radiofrequency radiation exposure evaluation: mobile devices, the 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

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 <sup>2</sup> )
2.4g wifi	2422	14.59	14±1(15)	31.62	2.27	1.69	0.01064
BLE	2440	2.89	2±1(3)	2.00	2.27	1.69	0.00067
BT	2480	3.63	3±1(4)	2.51	2.27	1.69	0.00084
5.8gWiFi	5755	9.23	9±1(10)	10.00	7.38	5.47	0.01089

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK2309204348-1/2/3/4E

2.4GWIFI and 5.8GWIFI cannot be transmitted simultaneously.

BT and WiFi Simultaneous evaluation(mW/cm<sup>2</sup>):

0.00084+0.01089=0.01173<1

The certified sample is portable device, 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 0.01173 mW/cm<sup>2</sup> which is< 1.0mW/cm<sup>2</sup>, RF Exposure testing is not required.

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