MPE ESTIMATION

FCC ID: 2AXMF-CTR89

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/cm²)
2.4G WIFI	2462	14.27	14±1(15)	31.62	3.16	2.07	0.01302
BLE	2480	4.17	4±1(5)	3.16	3.18	2.08	0.00131

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

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2311215602-E**, antenna gain=3.16dBi(2.4G WIFI), 3.18dBi(BLE)

2.4G WIFI MPE (max)= 0.01302 (mW/cm²)

BLE (max)= 0.00131 (mW/cm²)

simultaneously MPE=0.01302+0.00131=0.01433(mW/cm²)

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 0.01433 mW/cm² which is< 1.0mW/cm², RF Exposure testing is not required.
-------The End-------