

MPE ESTIMATION

FCC ID: 2A5VU-GM-MINI-01

1, 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	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (numerical)	MPE (mW/cm ²)
BT	4.02	4±1(5)	3.16	2	1.58	0.00099
2.4G WIFI	18.50	18±1(19)	79.43	2	1.58	0.02498
5G WIFI	16	15.5±1(16.5)	44.67	2.6	1.82	0.01618

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

Note:

Note: The estimation distance is 20cm

BT and 2.4GWIFI Simultaneous evaluation:

0.00099+0.02498=0.02597<1, SAR testing is not required

BT and 5GWIFI Simultaneous evaluation:

0.00099+0.01618=0.01717<1, SAR testing is not required

Note:

PK Output power= conducted power.

Conducted power see the test report HK2203231133-E

BT and 2.4GWIFI antenna gain=2dBi

5G WIFI antenna gain=2.6dBi

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 0.02597 mW/cm² which is < 1.0mW/cm², RF Exposure testing is not required.

Note: the device could not transmit simultaneously in 2.4G and 5G.

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