MPE ESTIMATION

FCC ID: 2AO85-TYD02

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	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)
WiFi	2412	15.78	15±1(16)	39.81	0	1.0000	0.00792
BT	2480	7.39	7±1(8)	6.31	0	1.0000	0.00126

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

Note: The estimation distance is 20cm

The device could not transmit simultaneously in 2.4G and BT

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2111264597-1E/2E**, 2.4G WIFI antenna gain=0dBi, BT antenna gain=0dBi

2.4G WIFI MPE(MAX)= 0.00792(mW/cm²)

BT MPE(MAX)= 0.00126(mW/cm²)

Simultaneously MPE=0.00792+0.00126=0.00918(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 0.00918 mW/cm² which is< 1.0mW/cm², RF Exposure testing is not required.

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