MPE ESTIMATION

FCC ID: 2A2OE-R3

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/cm^2)
2.4G WiFi	2422	20.33	20±1(21)	125.893	1.2	1.318	0.03301
5.2G WiFi	5190	11.84	11±1(12)	15.849	1.2	1.318	0.00416
5.8G WiFi	5825	12.15	12±1(13)	19.953	1.2	1.318	0.00523

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 **HK2105261651-1E/2E/3E**, antenna gain=1.2dBi

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 0.03301 mW/cm^2 which is< 1.0mW/cm^2, RF Exposure testing is not required.

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

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