

MPE ESTIMATION

FCC ID: **2A6YK-VECSIHUB**

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

2, Estimation Result

For 2.4G /5GWIFI/BT:

Mode	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 Ant 1	16.75	16±1(17)	50.12	3	2.0	0.01990
2.4G WIFI Ant 2	18.68	18±1(19)	79.43	3	2.0	0.03155
MIMO	/	/	/	/	/	0.05145
5.2G WIFI Ant 1	11.81	11±1(12)	15.85	3	2.0	0.00629
5.2G WIFI Ant 2	12.29	12±1(13)	19.95	3	2.0	0.00792
MIMO	/	/	/	/	/	0.01422
5.8G WIFI Ant 1	10.15	10±1(11)	12.59	3	2.0	0.00500
5.8G WIFI Ant 2	11.05	11±1(12)	15.85	3	2.0	0.00629
MIMO	/	/	/	/	/	0.01129
EDR	-0.88	-1.5±1(-0.5)	0.891	3	2.0	0.00035

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report **HK2210244706**-1E/2E/3E/4E,

2.4G antenna gain=3dBi.

5G antenna gain=3dBi.

BT antenna gain=3dBi.

WiFi and BT Simultaneous evaluation:

0.05145 mW/cm²+0.00035 mW/cm²=0.0518mW/cm²<1.

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 0.0518 mW/cm^2 which is $< 1.0 \text{ mW/cm}^2$, RF Exposure testing is not required.

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

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