



MPE ESTIMATION

FCC ID: 2A45TIHAR-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 (linear)	MPE (mW/cm ²)
2.4G WIFI Ant. 1	16.70	16±1(17)	50.12	2	1.5849	0.0199
2.4G WIFI Ant. 2	12.20	12±1(13)	19.95	2	1.5849	0.00629
MIMO	/	/	/	/	/	0.02619
5.8G WIFI Ant. 1	11.05	11±1(12)	15.85	2	1.5849	0.005
5.8G WIFI Ant. 2	11.73	11±1(12)	15.85	2	1.5849	0.005
MIMO	/	/	/	/	/	0.01

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

Note:

Note: The estimation distance is 20cm

The device could not transmit simultaneously in 2.4G and 5.8G

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2202180439-1E/2E**, antenna gain=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 0.02619 mW/cm^2 which is $< 1.0 \text{ mW/cm}^2$, RF Exposure testing is not required.

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