

MPE ESTIMATION

FCC ID: 2ADUG-AX835

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/5G WIFI:

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 Ant1	13.17	13±1(14)	25.119	5.24	3.34	0.01671
2.4G WIFI Ant2	13.78	13±1(14)	25.119	5.13	3.26	0.01629
MIMO	/	/	/	/	/	0.03300
5.2G WIFI Ant1	9.78	9±1(10)	10.000	6.04	4.02	0.00800
5.2G WIFI Ant2	6.78	6±1(7)	5.012	5.71	3.72	0.00371
5.2G WIFI Ant3	10.29	10±1(11)	12.589	4.98	3.15	0.00789
MIMO	/	/	/	/	/	0.01960
5.8G WIFI Ant1	8.02	8±1(9)	7.943	6.89	4.89	0.00773
5.8G WIFI Ant2	7.79	7±1(8)	6.310	6.17	4.14	0.00520
5.8G WIFI Ant3	8.45	8±1(9)	7.943	5.55	3.59	0.00567
MIMO	/	/	/	/	/	0.01860

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report **HK2411116634-1E/2E/3E**,

2.4G antenna 1 gain=5.24dBi, 2.4G antenna 2 gain=5.13dBi;

5.2G antenna 1 gain=6.04dBi, 5.2G antenna 2 gain=5.71dBi, 5.2G antenna 3 gain=4.98dBi;

5.8G antenna 1 gain=6.89dBi, 5.8G antenna 2 gain=6.17dBi, 5.8G antenna 3 gain=5.55dBi.

2.4G WIFI MPE (max)= 0.03300 (mW/cm²)

5G WIFI MPE (max)= 0.01960(mW/cm²)

simultaneously MPE= 0.03300+0.01960=0.0526

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 0.0526 which is < 1.0 , RF Exposure testing is not required.

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