

MPE ESTIMATION

FCC ID: **2BDGSLITE2RX**

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	13.48	13±1(14)	25.119	1.0	1.26	0.00629
2.4G WIFI Ant2	14.66	14±1(15)	31.623	1.0	1.26	0.00792
MIMO	/	/	/	/	/	0.01421
5.2G WIFI Ant1	6.66	6±1(7)	5.012	0.8	1.20	0.00120
5.2G WIFI Ant2	7.89	7±1(8)	6.310	1.0	1.26	0.00158
MIMO	/	/	/	/	/	0.00278
5.8G WIFI Ant1	6.60	6±1(7)	5.012	1.06	1.28	0.00127
5.8G WIFI Ant2	7.05	7±1(8)	6.310	0.49	1.12	0.00141
MIMO	/	/	/	/	/	0.00268

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report **HK2412097554-1E/2E/3E**,

2.4G antenna 1 gain=1.0dBi, 2.4G antenna 2 gain=1.0dBi;

5.2G antenna 1 gain=0.8dBi, 5.2G antenna 2 gain=1.0dBi;

5.8G antenna 1 gain=1.06dBi, 5.8G antenna 2 gain=0.49dBi.

2.4G WIFI MPE (max)= 0.01421 (mW/cm²)

5G WIFI MPE (max)= 0.00278 (mW/cm²)

simultaneously MPE= 0.01421+0.00278=0.01699

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 0.01699 which is< 1.0, RF Exposure testing is not required.

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