

MPE ESTIMATION

FCC ID: **2BD6A-N5095-U**

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 BT/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)
EDR	2.86	2±1(3)	2	1.45	1.40	0.00055
BLE	0.83	1±1(2)	1.58	1.45	1.40	0.00044
2.4G WIFI ANT.1	14.08	14±1(15)	31.62	1.45	1.40	0.00879
2.4G WIFI ANT.2	13.55	13±1(14)	25.12	1.45	1.40	0.00698
MIMO	/	/	/	/	/	0.01577
5.2G WIFI ANT.1	7.50	7±1(8)	6.31	0.73	1.18	0.00149
5.2G WIFI ANT.2	7.01	7±1(8)	6.31	0.73	1.18	0.00149
MIMO	/	/	/	/	/	0.00298
5.8G WIFI ANT.1	8.70	8±1(9)	7.94	0.73	1.18	0.00187
5.8G WIFI ANT.2	8.28	8±1(9)	7.94	0.73	1.18	0.00187
MIMO	/	/	/	/	/	0.00374

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report **HK2402210717-1E/-2E/3E/4E/5E**,

BT antenna gain=1.45dBi

2.4G antenna gain=1.45dBi.

5.2G antenna gain=0.73dBi.

BT MPE (max)= 0.00055 (mW/cm²)

2.4G WIFI MPE (max)= 0.01577 (mW/cm²)

simultaneously MPE=0.00055+0.01577=0.01632(mW/cm²)

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 0.01632 which is < 1.0 , RF Exposure testing is not required.

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

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