

MPE ESTIMATION

FCC ID: SMH-TBB85TX

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

	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (numerical)	MPE (mW/cm ²)
5.2GWiFi ANT1	10.25	10±1(11)	12.589	4.89	3.08	0.00773
5.2GWiFi ANT2	10.36	10±1(11)	12.589	4.89	3.08	0.00773
MIMO	/	/	/	/	/	0.01546
5.8GWiFi ANT1	9.54	9±1(10)	10.000	5.13	3.26	0.00649
5.8GWiFi ANT2	10.26	10±1(11)	12.589	5.13	3.26	0.00816
MIMO	/	/	/	/	/	0.01465

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2412268084-1E/2E**.

5.2G antenna 1 gain=4.89dBi, 5.2G antenna 2 gain=4.89dBi;

5.8G antenna 1 gain=5.13dBi, 5.8G antenna 2 gain=5.13dBi.

5G WIFI MPE (max)= 0.01546 (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 0.01546 mW/cm² which is< 1.0mW/cm², RF Exposure testing is not required.

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