

## MPE ESTIMATION

FCC ID: **SGS-AMY5133ACPD**

### 1, Limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/ cm <sup>2</sup> )	Averaging time(minutes)
300MHz----1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

## 2, Estimation Result

For5G 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 <sup>2</sup> )
5.2G WIFI Ant1	12.78	12±1(13)	19.95	14	25.12	0.09976
5.2G WIFI Ant2	11.49	11±1(12)	15.85	14	25.12	0.07924
MIMO	/	/	/	/	/	0.17900
5.8G WIFI Ant1	10.94	10±1(11)	12.59	14	25.12	0.06294
5.8G WIFI Ant2	11.28	11±1(12)	15.85	14	25.12	0.07924
MIMO	/	/	/	/	/	0.14218

$$Pd = \frac{Pout * G}{4\pi r^2} :$$

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report **HK2309124188-1E/-2E**, antenna gain=14dBi.

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 0.17900 which is < 1.0, RF Exposure testing is not required.

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