

MPE ESTIMATION

FCC ID: **2A36D-H1**

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

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)
ZIGBEE	-10.72	-11±1(-10)	0.1	1	1.26	0.00003
WIFI	26.62	26±1(27)	501.19	3.4	2.19	0.21847
$Pd = \frac{Pout * G}{4\pi r^2} ;$						
Note:						
Note: The estimation distance is 20cm						
Note: PK Output power= conducted power. Conducted power see the test report HK2110254024-1E/2E ZIGBEE Gantenna gain=1dBi WIFI Gantenna gain=3.4dBi ZIGBEE MPE (max)= 0.00003 (mW/cm ²) WIFI MPE (max)= 0.21847 (mW/cm ²) simultaneously MPE=0.00003+0.21847=0.21850 (mW/cm ²)						

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 0.21850mW/cm² which is< 1.0mW/cm², RF Exposure testing is not required.

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