MPE ESTIMATION

FCC ID: 2BB9L-FZT6090

1,Per FCC Part 2.1091 Radiofrequency radiation exposure evaluation: mobile devices, the 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

Mode	Frequency (MHz)	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm^2)
BLE	2480	-26.59	-26±1(-25)	0.0032	1.73	1.4894	0.00000095
Zigbee	2412	-7.67	-7±1(-6)	0.25	1.55	2.2542	0.000112

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

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK2307203147-1E/2E , antenna gain=1.73dBi(BLE), 3.53dBi(Zigbee)

The certified sample is portable device, 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 0.000112 mW/cm^2 which is< 1.0mW/cm^2, RF Exposure testing is not required.

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