# MPE ESTIMATION

**FCC ID: 2BLWP-960S**

**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/cm²) |
|---|---|---|---|---|---|---|---|
| 2.4g WIFI | 2462 | 14.54 | 14±1(15) | 31.62 | 3.93 | 2.47 | 0.01555 |
| BLE | 2440 | 1.14 | 1±1(2) | 1.58 | 2.49 | 1.77 | 0.00056 |

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

Note: The estimation distance is 20cm

Note: PK Output power= conducted power in mW.
G=power gain of the antenna in the direction of interest relative to an isotropic radiator
R=distance to the center of radiation of the antenna in cm
Conducted power see the test report HK2507304199-1E/2E , antenna gain=3.93dBi(2.4g WIFI), 2.49dBi(BLE)
BLE MPE (max)=0.00056 (mW/cm²)
2.4G Wifi (max)= 0.01555 (mW/cm²)
simultaneously MPE=0.00056+0.01555=0.01611<1.0

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 0.01611 mW/cm² which is< 1.0mW/cm², RF Exposure testing is not required.

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