# MPE ESTIMATION

**FCC ID: 2AAUS-F020L**

**1, According to §1.1310, 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**

| | Frequency (MHz) | Max PK Output power(dBm) | Tune Up Power(dBm) | Max Tune Up power(mW) | Antenna Gain(dBi) | Antenna Gain (numerical) | MPE ($mW/cm^2$) |
|---|---|---|---|---|---|---|---|
| BLE | 2402 | 1.42 | 1±1(2) | 1.585 | 1.9 | 1.55 | 0.00049 |
| EDR | 2402 | 4.33 | 4±1(5) | 3.162 | 1.9 | 1.55 | 0.00097 |

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 **HK2502240737-1E/2E**, antenna gain=1.9dBi

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 0.00097mW/$cm^2$ which is< 1.0mW/$cm^2$, RF Exposure testing is not required.

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