



# MPE ESTIMATION

FCC ID: 2A3SO-NSSLI11A

## 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                      |

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 <sup>2</sup> ) |
|---|-----------------|--------------------------|--------------------|-----------------------|-------------------|-----------------------|---------------------------|
| WiFi  | 2462            | 17.17                    | 16.5±1(17.5)       | 56.23                 | 1                 | 1.2589                | 0.01409                   |
| BLE   | 2440            | 5.76                     | 5±1(6)             | 3.98                  | 1                 | 1.2589                | 0.00100                   |
| $Pd = \frac{P_{out} * G}{4\pi r^2}$   |                 |                          |                    |                       |                   |                       |                           |
| Note:   |                 |                          |                    |                       |                   |                       |                           |
| Note: The estimation distance is 20cm   |                 |                          |                    |                       |                   |                       |                           |
| Note:   |                 |                          |                    |                       |                   |                       |                           |
| PK Output power= conducted power.   |                 |                          |                    |                       |                   |                       |                           |
| Conducted power see the test report <b>HK2201190270-1E/2E</b> , 2.4G WIFI antenna gain=1dBi, BT antenna gain=1dBi |                 |                          |                    |                       |                   |                       |                           |
| The device could not transmit simultaneously in BLE and 2.4GWIFI.   |                 |                          |                    |                       |                   |                       |                           |

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 0.01409 mW/cm<sup>2</sup> which is < 1.0mW/cm<sup>2</sup>, RF Exposure testing is not required.

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