

## MPE ESTIMATION

FCC ID: 2AK43RD-828

### 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                      |

### 2, Estimation Result

#### For 2.4G WIFI:

| Mode                                                                                                                                                                                                                               | 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> ) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 2.4GWIFI                                                                                                                                                                                                                           | 21.09                    | 20.5±1(21.5)       | 141.25                | 1                 | 1.26                  | 0.03542                   |
| $Pd = \frac{P_{out} * G}{4\pi r^2};$ <p>Note:</p> <p>Note: The estimation distance is 20cm</p> <p>Note: PK Output power= conducted power.</p> <p>Conducted power see the test report HK2011233695-E.</p> <p>Gantenna gain=1dBi</p> |                          |                    |                       |                   |                       |                           |

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 0.03542mW/cm<sup>2</sup> which is < 1.0mW/cm<sup>2</sup>, RF Exposure testing is not required.

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