



# MPE ESTIMATION

FCC ID: 2A8KM-STD2M

1, Per FCC Part 2.1091 Radiofrequency radiation exposure evaluation: mobile devices, the 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> ) |
|-----------|-----------------|--------------------------|--------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 2.4G WIFI | 2462            | 18.95                    | 18±1(19)           | 79.43                 | 1.5               | 1.41                  | 0.02228                   |
| 5.8G WIFI | 5745            | 12.72                    | 12±1(13)           | 19.95                 | 5                 | 3.16                  | 0.01254                   |

$$Pd = \frac{P_{out} * G}{4\pi r^2}$$

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2304141444-1E/2E**, antenna gain=1.5dBi(2.4G WIFI), 5dBi(PCB Antenna)

2.4G WIFI and 5G WIFI do not support the same transmission

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 0.02228 mW/cm<sup>2</sup> which is < 1.0mW/cm<sup>2</sup>, RF Exposure testing is not required.

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