



# MPE ESTIMATION

FCC ID: 2BDRG-735

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

FM: EIRP(dBm)= 55.55(dBuV/m)-95.3= -39.75(dBm)

| 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> ) |
|------|-----------------|--------------------------|--------------------|-----------------------|-------------------|-----------------------|---------------------------|
| EDR  | 2402            | 3.17                     | 3±1(4)             | 2.51                  | -1.52             | 0.705                 | 0.00035                   |
| FM   | 107.9           | -39.75                   | -39±1(-38)         | 0.0002                | 0                 | 1.000                 | 0.00000004                |

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2311165512-1E/2E**, antenna gain=-1.52dBi( EDR), 0dBi( FM)

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 0.00035 mW/cm<sup>2</sup> which is < 1.0mW/cm<sup>2</sup>, RF Exposure testing is not required.

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