



# MPE ESTIMATION

FCC ID: 2BQZV-CST-DMX2

1, According to §1.1310, 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

| 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 <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) |
|-----------------|--------------------------|--------------------|-----------------------|-------------------|--------------------------|---------------------------|-----------------------------|
| 915             | 0.98                     | 0±1(1)             | 1.259                 | 3.05              | 2.02                     | 0.00051                   | 0.61                        |

$$Pd = \frac{Pout * G}{4\pi r^2} ;$$

Note:

Note: Output power (dBm)=96.18(dBuV/m)-95.2= 0.98 (dBm)

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 **HK2506253394-E**, antenna gain=3.05dBi.

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 0.00051mW/cm<sup>2</sup> which is < 0.61 mW/cm<sup>2</sup>, RF Exposure testing is not required.

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