

# Analysis Report

Report No.: 14051779HKG-001

The Equipment Under Test (EUT) is a 2.4GHz Bluetooth 4.0 BLE Proximity based locking device for the PC or Mac. The Bluetooth portion is operating between 2402MHz and 2480MHz (40 channels with 2MHz channel spacing). The EUT is powered by 3.0VDC (1 x 3.0V "CR2032" battery).

After pairing, the EUT can automatically to lock the screen of PC/Mac when the user move away from their PC/Mac. When the user come back, EUT will automatically unlock the screen.

Antenna Type: Internal integral chip antenna

Antenna Gain: 0dBi

Nominal rated field strength: 93.5dBμV/m at 3m

Maximum allowed field strength of production tolerance: - 5dB ~ +3dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 96.5dBμV/m at 3m in frequency 2.4GHz, thus;

The EIRP =  $[(FS \cdot D)^2 \cdot 1000 / 30] = 1.34\text{mW}$

Conducted power = Radiated Power (EIRP) – Antenna Gain

So;

Conducted Power = 1.34mW

The SAR Exclusion Threshold Level:

=  $3.0 \cdot (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$

=  $3.0 \cdot 5 / \sqrt{2.480} \text{ mW}$

= 9.53 mW

Since the above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.