

Analysis Report

Report No.: 14030599HKG-001

The Equipment Under Test (EUT) is a remote plane, equipped with Bluetooth 4.0 and operates in the frequency range 2402MHz to 2480MHz (40 channels with 2 MHz spacing). The EUT is powered by 1x3.7V Rechargeable battery. When powering on the EUT, the LED (green color) on the plane will be lighted. The EUT can connect to the Smartphone by Bluetooth. It can be controlled in flying forward, turning left and right.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 92.2dBμV/m at 3m

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

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 95.2dBμV/m at 3m in frequency 2.4GHz, thus;

The EIRP = $[(FS \cdot D)^2 \cdot 1000 / 30] = 0.993\text{mW}$

Conducted power = Radiated Power (EIRP) – Antenna Gain

So;

Conducted Power = 0.993mW.

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.