## **Analysis Report**

The Equipment Under Test (EUT) is a 2.4GHz Transceiver (Plane Unit) controlled by controller operating at the frequency range of 2407- 2477MHz including 26 channels, which are (2407.00, 2408.00, 2409.00, 2410.00, 2411.00, 2413.00, 2435.00, 2436.00, 2438.00, 2440.00, 2441.00, 2442.00, 2443.00, 2444.00, 2445.00, 2467.00, 2468.00, 2469.00, 2470.00, 2471.00, 2472.00, 2473.00, 2474.00, 2475.00, 2476.00 and 2477.00) MHz. The EUT is powered by 3.7V Rechargeable battery. After switch on the EUT and paired with the controller, the plane can be controlled to move forward and turn left/ right by the controller. The plane can be charged by the controller.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 99.2dBµV/m at 3m

Maximum allowed field strength of production tolerance: 94.0 dBμV/m – 100.0 dBμV/m

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 100.0dBµV/m at 3m in frequency 2.4GHz, thus;

The EIRP =  $[(FS*D)^2*1000 / 30] = 3 \text{ mW}$ 

Conducted power = Radiated Power (EIRP) – Antenna Gain So;

Conducted Power = 3 mW.

The SAR Exclusion Threshold Level:

- = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 \* 5 / sqrt (2.477) 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.