## **Analysis Report**

The Equipment Under Test (EUT) is a Bluetooth version 4.0 for a Drone operating from 2402-2480MHz with 2MHz channel spacing. The EUT is powered by 1X3.7VDC rechargeable battery. After switch on the EUT and paired with smart device, the EUT can be controlled to move forward, backward, turn left/right.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 91.2dBµV/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  $94.2dB\mu V/m$  at 3m in frequency 2.4GHz, thus;

The EIRP =  $[(FS*D)^2*1000 / 30] = 0.789 \text{mW}$ 

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

Conducted Power = 0.789mW.

The SAR Exclusion Threshold Level: = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 \* 5 / sqrt (2.480) 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.