## **Analysis Report**

The Equipment Under Test (EUT) is a 2.4GHz Transmitter (Controller Unit) operating at a frequency range of 2418-2467MHz with 1MHz channel spacing. The EUT is powered by 2\*1.5V AA battery. After switch on the EUT and paired with the car, the car can be controlled to move forward/ backward and turn left/ right by the controller.

Antenna Type: Internal integral antenna Antenna Gain: 0dBi Nominal rated field strength: 102.8 dBµV/m at 3m Maximum allowed field strength of production tolerance: 96.8 dBµV/m - 102.8 dBµV/m

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 102.8dB $\mu$ V/m at 3m in frequency 2.4GHz, thus;

The EIRP = [(FS\*D) ^2\*1000 / 30] = 5.716 mW

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

Conducted Power = 5.716 mW.

The SAR Exclusion Threshold Level: = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 \* 5 / sqrt (2.467) mW = 9.55 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.