Analysis Report

The Equipment Under Test (EUT) is a 2.4GHz Transceiver (Car Unit) controlled by controller operating at a frequency range of 2411-2475MHz with 1MHz channel spacing.

The EUT is powered by 6 x 1.5V AA batteries. After switching on the EUT and being paired with the controller, the EUT 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: 77.5dBµV/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 80.5dBµV/m at 3m in frequency 2.4GHz, thus;

The EIRP = [(FS*D) ^2*1000 / 30] = 0.034mW

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

Conducted Power = 0.034mW.

The SAR Exclusion Threshold Level: = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 * 5 / sqrt (2.475) 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.