Analysis Report

The Equipment Under Test (EUT) is a Bluetooth version 4.0 ball for a RC Dog (Chip) operating from 2402-2480MHz with 2MHz channel spacing. The EUT is powered by 4X1.5V AAA batteries. After switch on the EUT and paired with RC Dog, the RC Dog will chase the EUT.

Antenna Type: External integral antenna Antenna Gain: 0dBi Nominal rated field strength: 90.9dBµV/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 93.9dB μ V/m at 3m in frequency 2.4GHz, thus;

The EIRP = $[(FS*D)^{2*1000} / 30] = 0.736 \text{mW}$

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

Conducted Power =0.736mW.

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.