

Analysis Report

The equipment under test (EUT) is a 2.4GHz Bluetooth 3.0 wireless remote device (i.e. Selfie Snaps). The EUT is powered by a 3VDC (CR2032). The Bluetooth module in the EUT is operating in the frequency range from 2402MHz to 2480MHz (79 channels with 1MHz channel spacing). The EUT contains 2 buttons, one is the iOS button and the other one is the Android button. After pairing with the ios/Android devices, you will be able to take photos by press these buttons.

Antenna Type: Internal antenna

Antenna Gain: 0dBi

Nominal rated field strength: 85.2 dBμV/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 88.2dBμV/m at 3m in frequency 2.4GHz, thus;

The EIRP = $[(FS \cdot D)^2 \cdot 1000 / 30] = 0.198\text{mW}$

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

Conducted Power = 0.198mW.

The SAR Exclusion Threshold Level:

$= 3.0 \cdot (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$
 $= 3.0 \cdot 5 / \sqrt{2.480} \text{ mW}$
 $= 9.53 \text{ mW}$

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.