## **RF Exposure**

The equipment under test (EUT) is a Bluetooth Wireless Presenter with 2.4GHz BT function operating in 2402-2480MHz and a 2.4GHz wireless transmitter function operating in 2402-2480MHz. The EUT is powered by DC 3V battery. 2.4G wireless transmitter function and BT function cannot be simultaneous transmission. For more detail information pls. refer to the user manual.

## Bluetooth Version: 5.1 BLE (Single Mode)

Antenna Type: Integral antenna Modulation Type: GFSK Antenna Gain: 0dBi Max The nominal conducted output power specified: -8dBm (+/-2dB) The nominal radiated output power (e.i.r.p) specified: -8dBm (+/-2dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is  $88.0dB\mu V/m$  at 3m in the frequency 2480MHz The EIRP = [(FS\*D) ^2 / 30] mW = -7.23dBm which is within the production variation.

The minimum peak radiated emission for the EUT is  $86.5dB\mu V/m$  at 3m in the frequency 2402MHz The EIRP = [(FS\*D) ^2 / 30] mW = -8.73dBm which is within the production variation.

The maximun conducted output power specified is -6 dBm = 0.25 mW The source- based time-averaging conducted output power = 0.25 \* Duty factor mW (where Duty Factor $\leq$ 1) = 0.25 mW

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 source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

## 2.4GHz wireless transmitter function:

Antenna Type: Integral antenna Modulation Type: GFSK Antenna Gain: 0dBi Max The nominal conducted output power specified: -7dBm (+/-2dB) The nominal radiated output power (e.i.r.p) specified: -7dBm (+/-2dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is  $88.8dB\mu$ V/m at 3m in the frequency 2402MHz The EIRP = [(FS\*D) ^2 / 30] mW = -6.43dBm which is within the production variation.

The minimum peak radiated emission for the EUT is  $87.0dB\mu$ V/m at 3m in the frequency 2480MHz The EIRP = [(FS\*D) ^2 / 30] mW = -8.23dBm which is within the production variation.

The maximun conducted output power specified is -5 dBm = 0.32 mW The source- based time-averaging conducted output power = 0.32 \* Duty factor mW (where Duty Factor $\leq 1$ ) = 0.32 mW

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 source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

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