INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Skin Scanner (Photographic accessories) with Bluetooth 5.2 (BLE-mode) function operating in 2402-2480MHz. The EUT is powered by DC 3.7V by battery or DC 5V from USB input. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK Antenna Gain:1.5dBi

Bluetooth Version: 5.2 (BLE Mode)

The nominal conducted output power specified: -5.0 dBm (±3dB)
The nominal radiated output power (e.i.r.p) specified: -3.5 dBm (±3dB)

According to the KDB 447498v07:

The Maximum peak radiated emission for the EUT is $\,92.7\,$ dB μ V/m at 3m in the frequency 2402MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -2.53dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is 90.5 dB μ V/m at 3m in the frequency 2440MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -4.73dBm which is within the production variation.

The maximum conducted output power specified is -2dBm= 0.631mW

The maximum EIRP specified is -0.5dBm= 0.891mW

The maximum ERP specified is -2.65dBm= 0.543mW

The SAR Exclusion Threshold Level:

$$P_{\text{th}}(\text{mW}) = \text{ERP}_{20\text{cm}} * (d/20\text{cm})^{x}$$
 (X= $-\log_{10} \left(\frac{60}{ERP_{20} \text{ cm}\sqrt{f}}\right)$)
$$= 3060 * (0.5/20)^{1.9} \text{ mW}$$

$$= 2.72 \text{ mW}$$

Since max. power of the source-based time-averaging conducted output power and effective radiated power (ERP) is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

FCC ID: 2BBP8-001