

## INTERTEK TESTING SERVICES

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### RF Exposure

The equipment under test (EUT) is a 2XL Robot with Bluetooth 5.0 BLE function operating in 2402-2480MHz. The EUT is powered by DC 3.7V by rechargeable battery. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK

Antenna Gain: 2.7dBi Max

Bluetooth Version: 5.0 BLE (Single Mode)

The normal radiated output peak power (e.i.r.p) is: 3.0dBm (tolerance: +/- 3dB).

The normal conducted output peak power is 0.3dBm (tolerance: +/- 3dB).

According to the KDB 447498 V06:

The Maximum peak radiated emission for the EUT is 101.0dBμV/m at 3m in the frequency 2402MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = 5.77dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 98.4dBμV/m at 3m in the frequency 2480MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = 3.17dBm

which is within the production variation.

The maximum conducted output average power specified is 3.3dBm= 2.138mW

The source- based time-averaging conducted output power  
=2.138 mW

The SAR Exclusion Threshold Level:

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

=  $3.0 \cdot 5 / \text{sqrt} (2.480)$  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.