

# INTERTEK TESTING SERVICES

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## Analysis Report

The equipment under test (EUT) is a Suitcase Lock with Bluetooth function operating in 2402-2480MHz. The EUT is powered by DC 3.0V battery, For more detail information pls. refer to the user manual.

Bluetooth Version: 4.0 Single Mode (BLE)

Modulation Type: GFSK

Antenna Type: Integral antenna (Gain: 0 dBi)

The nominal conducted output power specified: -3.0dBm (Tolerance: +/-5dB)

According to the KDB 447498:

The maximum conducted emission for the EUT is -2.17dBm for at the frequency 2.440GHz which is within the production variation

The minimum conducted emission for the EUT is -2.67dBm at the frequency 2.480GHz which is within the production variation

The maximum conducted output power specified is 2.0dBm = 1.58mW

The source- based time-averaging conducted output power  
=  $1.58 * \text{Duty cycle mW} \leq 1.58 \text{ mW (Duty Cycle} \leq 100\%)$

The SAR Exclusion Threshold Level:

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

=  $3.0 * 5 / \sqrt{2.480} \text{ mW}$

= 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.