

## INTERTEK TESTING SERVICES

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### RF Exposure

The equipment under test (EUT) is a Micro CD System, Docking Speaker, with Bluetooth FHSS technology operating in 2402-2480MHz. The EUT is powered by AC 120V, 60Hz. The NFC tag is passive. For more detail information pls. refer to the user manual.

Bluetooth Version: 2.1+EDR

Antenna Type: Integral antenna

Antenna Gain: 2 dBi

Modulation Type: GFSK,  $\pi/4$ -DQPSK and 8-DPSK

The nominal conducted output power specified: -6.0dBm (Tolerance: +/-4dB)

According to the KDB 447498:

The maximum conducted output power for the EUT is -8.98dBm in the frequency 2402MHz and the minimum conducted output power for the EUT is -9.99dBm in the frequency 2480MHz which are within the production variation.

The maximum conducted output power specified is -2.0dBm = 0.63mW

The source- based time-averaging conducted output power  
= 0.63 \* Duty Cycle mW= 0.5mW

The SAR Exclusion Threshold Level:

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

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

= 9.5 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.

Transmitter Duty Cycle Calculation:

Based on the Bluetooth Specification (BT version: 2.1+EDR), transmitter ON time is independent of packet type (DH1, DH3 and DH5). For one period for a pseudo-random hopping through all 79 RF channels, for DH5: One hopset consists of 5 TX slot and 1 RX slot.

Duty factor =  $5 / 6 = 0.833$

This requirement is according to KDB 865664 D02.