

# INTERTEK TESTING SERVICES

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## RF Exposure

The equipment under test (EUT) is a Shower Speaker with Magnetic Mount with Bluetooth function operating in 2402-2480MHz. The EUT is powered by DC 3.7V from rechargeable battery and charged by DC 5V 1A from USB Port. For more detailed features description, please refer to the user's manual.

Bluetooth Version: 5.1 EDR(Single mode)

Antenna Type: Integral antenna.

Antenna Gain: 0.00dBi.

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

The nominal conducted output power specified: 0dBm (+/-3dB)

The nominal radiated output power (e.i.r.p) specified: 0dBm (+/- 3dB)

According to the KDB 447498:

The maximum peak radiated emission for the EUT is 97.3dB $\mu$ V/m at 3m in the frequency 2402MHz

The EIRP =  $[(FS * D)^2 / 30]$  mW = 2.07dBm  
which is within the production variation.

The minimum peak radiated emission for the EUT is 92.7dB $\mu$ V/m at 3m in the frequency 2441MHz

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

The maximum conducted output power specified is 3 dBm = 2 mW

The source- based time-averaging conducted output power  
= 2 \* Duty factor mW (where Duty Factor  $\leq$  1)  
= 2 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.