

## INTERTEK TESTING SERVICES

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### RF Exposure

The equipment under test (EUT) is a Singing Color Changing Cats operating at 2.4G Band. The EUT can be powered by DC 3.0V (1 x 3.0V CR2032 battery). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 2dBi.

The normal radiated output power (e.i.r.p) is: -2.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -4.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 93.1dB $\mu$ V/m at 3m in the frequency 2439MHz

The EIRP =  $[(FS^*D)^2 / 30]$  mW = -2.13dBm

which is within the production variation.

The maximum conducted output power specified is 1.0dBm= 1.259mW

The source- based time-averaging conducted output power

=1.259mW

The SAR Exclusion Threshold Level:

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

= 3.0 \* 5 / sqrt (2.439) mW

= 9.6 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.

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