

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is TAMAGOTCHI(42831, 42833, 42834, 42835) operating at 2.4G Band. The EUT can be powered by DC 3.0V(2 x 1.5V AAA batteries). For more detail information pls. refer to the user manual.

Bluetooth Version: BLE (single mode)

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

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

The normal conducted output power is -3.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 94.0 dBμV/m at 3m in the frequency 2440MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -1.23dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 90.3 dBμV/m at 3m in the frequency 2402MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -4.93dBm

which is within the production variation.

The maximum conducted output power specified is 0dBm= 1.000mW

The source- based time-averaging conducted output power
=1.000* Duty cycle mW =1.000 mW(Duty cycle =100%)

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.