## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is a Silver Echo operating at 2.4G Band. The EUT can be powered by DC 9.0V (1 X 9.0V 6LR61 battery). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi. Modulation Type: GFSK.

The normal radiated output power (e.i.r.p) is: -5.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -5.0dBm (tolerance: +/- 3dB).

## According to the KDB 447498:

The Maximum peak radiated emission for the EUT is  $90.5 dB\mu V/m$  at 3m in the frequency 2410 MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = -4.73dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is  $89.4 dB\mu V/m$  at 3m in the frequency 2443 MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = -5.83dBm which is within the production variation.

The maximum conducted output power specified is -2dBm =0.63 mW The source- based time-averaging conducted output power = 0.63\* Duty cycle mW <0.63 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level:

- = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 \* 5 / sqrt (2.475) 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.

The duty cycle is simply the on-time divided by the period:

The duration of one cycle = 20.7246ms

Effective period of the cycle = 1.0145ms

DC =1.0145ms / 20.7246ms= 0.0490 or 4.90%

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