INTERTEK TESTING SERVICES

Analysis Report

The equipment under test (EUT) is a portable transmitter for a RC Soft & Squeezable Vehicle-Tow Truck operating at 49.860 MHz which is controlled by a crystal. The EUT is powered by two 1.5V AAA size batteries. For more detail information pls. refer to the user manual.

Antenna Type: Integral Antenna

Antenna Gain: 0dBi

The nominal conducted output power specified: -39dBm (+/- 3dB)

The nominal radiated output power (e.r.p) specified: -41.15dBm (+/- 3dB)

Modulation Type: Pulse modulation

According to the KDB 447498:

The worst-case peak radiated emission for the EUT is $55.3 dB\mu V/m$ at 3m in the frequency 49.860 MHz

The EIRP = $[(FS*D)^2 / 30] \text{ mW} = -39.93 \text{dBm}$

The ERP = EIRP -2.15 = -42.08 dBm

which is within the production variation.

The maximum conducted output power specified is -36dBm = 0.0003mW The source- based time-averaging conducted output power = 0.0003* Duty Cycle mW< 0.1 mW (Duty Cycle<100%)

The SAR Exclusion Threshold Level for 49.860MHz when the minimum test separation distance is < 50mm:

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= 474 * [1 + log(100/f(MHz))]/2
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=308.6mW

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 duration of one cycle = 3.0ms Effective period of the cycle = 1.50ms DC = 1.5ms / 3.0ms = 0.5 or 50%