INTERTEK TESTING SERVICES

Analysis Report

The equipment under test (EUT) is a transmitter for Remote Key Finder operating at 315MHz which is operated by a crystal. The EUT is powered by two 1.5V AAA batteries. The EUT has two control Key, press the corresponding control key on the EUT in order to locate the desired receiver. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna Antenna Gain: 0dBi The nominal conducted output power specified: -23dBm (+/- 3dB)

The nominal radiated output power (e.r.p) specified: -25.15dBm (+/- 3dB)

Modulation Type: ASK

According to the KDB 447498:

The worst-case peak radiated emission for the EUT is 71.8dBµV/m at 3m in the frequency 315MHz The EIRP = [(FS*D) ^2 / 30] mW= -23.43dBm The ERP = EIRP - 2.15 = -25.58 dBm which is within the production variation.

The maximun conducted output power specified is -20dBm = 0.01mW The source- based time-averaging conducted output power = 0.01 * Duty Cycle mW= 0.004459 mW < 0.1 mW

The SAR Exclusion Threshold Level: = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 * 5 / sqrt (0.315) mW = 26.7 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 duration of one cycle = 7.4ms Effective period of the cycle = $1.9 + 0.8 + 0.2 \times 3 = 3.3$ ms DC = 3.3ms / 7.4ms = 0.4459 or 44.59%