

# INTERTEK TESTING SERVICES

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## RF Exposure

The Equipment under Test (EUT) is a Stereo 2.1 CH TV Soundbase model HG02955-US which has Bluetooth function. It is powered by AC120V, 60Hz. For more detail information please refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 1dBi.

Modulation Type: GFSK,  $\pi/4$  -DQPSK and 8-DPSK for BT 4.2.

The nominal conducted output power specified: 0dBm (Tolerance:  $\pm 3.0$ dB)

The nominal radiated output power specified: 1dBm (Tolerance:  $\pm 3.0$ dB)

The maximum conducted output power for the EUT is -1.07dBm in the frequency 2480MHz of BT 4.2 which is within the production variation.

The minimum conducted output power for the EUT is -1.30dBm in the frequency 2402MHz of BT 4.2 which is within the production variation.

According to the KDB 447498:

The maximum conducted output power specified is 3.0dBm = 2.0mW

The source-based time-averaging conducted output power

= 2.0 \* Duty Cycle mW (where Duty cycle  $\leq 1$ )

$\leq 2.0$ mW

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.