

## INTERTEK TESTING SERVICES

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### RF Exposure

The equipment under test (EUT) is a Range Rover 12V -White with Bluetooth 5.0 (Single Mode EDR) function operating in 2402-2480MHz. The EUT is powered by DC 12.0V by rechargeable battery. Once charging , the wireless function will be disabled. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK,  $\pi/4$ -DQPSK and 8-DPSK

Antenna Gain: -0.58dBi Max

Bluetooth Version: 5.0 (Single Mode EDR)

The normal radiated output power (e.i.r.p) is: -8.58dBm (tolerance: +/- 3dB).

The normal conducted output power is -8.0dBm (tolerance: +/- 3dB).

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 87.4dB $\mu$ V/m at 3m in the frequency 2402MHz

The EIRP =  $[(FS^*D)^2 / 30]$  mW = -7.83dBm  
which is within the production variation.

The Minimum peak radiated emission for the EUT is 85.9dB $\mu$ V/m at 3m in the frequency 2480MHz

The EIRP =  $[(FS^*D)^2 / 30]$  mW = -9.33dBm  
which is within the production variation.

The maximum conducted output power specified is -5.58dBm= 0.277mW

The source- based time-averaging conducted output power  
=0.277mW

The SAR Exclusion Threshold Level:

= 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)  
= 3.0 \* 5 / sqrt (2.480) mW  
= 9.54 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.