

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Truck Speaker with Bluetooth 5.3 EDR function operating in 2402-2480MHz. The EUT is powered by DC 5V from adapter or DC 4.2V from battery. 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: 1.68dBi Max

Bluetooth Version: 5.3 EDR (Single Mode)

The nominal conducted output power specified: -0.7 dBm (± 1 dB)

According to the KDB 447498 D04 Interim General RF Exposure Guidance v01:

The maximum conducted output power for the EUT is 0.3dBm in the frequency 2.402GHz which is within the production variation.

The minimum conducted output power for the EUT is -1.7dBm in the frequency 2.480GHz which is within the production variation.

The maximum conducted output power specified is 0.3 dBm = 1.072mW

The maximum ERP specified is 0.3dBm - 2.15dB + 1.68 dBi = -0.17dBm = 0.96mW

The maximum EIRP specified is 0.3dBm + 1.68dBi = 1.98dBm = 1.58mW

Mode	Location	Distance from ANT (mm)	Max. tune-up Power (mW)	Exemption with Max. Allowed Power (1g,mW)	SAR Test
EDR	Front Side	5	0.96mW	2.79	N/A
	Back Side	5		2.79	N/A
	Top Side	5		2.79	N/A
	Bottom Side	5		2.79	N/A
	Left Side	5		2.79	N/A
	Right Side	5		2.79	N/A

Since max. conducted output power and ERP is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.