

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT: **Passed**

Test standard : FCC KDB Publication 447498 D01 v06
47CFR 1.1310
47CFR 2.1091

Left Ear:

FCC:

Therefore the maximum output power of the transmitter is 5.26mW < 10mW(Distance: 5mm), hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile Portable RF Exposure.

Canada:

Maximum conducted peak power: 5.26 mW

The manufacturer has declared that the transmission of the device has a maximum Duty Cycle of 50 %.
Thus, a Duty Cycle Correction Factor of 3dB or linear 0.5 can be applied:

Maximum conducted average power: 2.63 mW

Antenna Gain: 1.2 dbi

Maximum EIRP available 3.46 mW

Since maximum output power of the transmitter is 3.46mW <4mW (distance \leq 5 mm), hence the EUT is excluded from SAR evaluation according to Table 1 in RSS-102, For limb-worn devices where the 10 gram value applies, the exemption limits for routine evaluation in Table 1 of RSS-102 are multiplied by a factor of 2.5.

Right Ear:

FCC:

Therefore the maximum output power of the transmitter is 2.64mW < 10mW(Distance: 5mm), hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile Portable RF Exposure.

Canada:

Maximum conducted peak power: 2.64 mW

Antenna Gain: 1.2 dbi

Maximum EIRP available 3.5 mW

Since maximum output power of the transmitter is 3.5mW <4mW (distance \leq 5 mm), hence the EUT is excluded from SAR evaluation according to Table 1 in RSS-102, For limb-worn devices where the 10 gram value applies, the exemption limits for routine evaluation in Table 1 of RSS-102 are multiplied by a factor of 2.5.

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