

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:
Passed

Test standard : FCC KDB Publication 447498 D01
 RSS-102 issue 5, Table 1

FCC:

Therefore the maximum output power of the transmitter is 192.31mW < 196mW(Distance: 60 mm), hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile Portable RF Exposure.

Canada:

The antenna gain must be less than 1.7 dBi and the separation distance must be more than 50 mm, otherwise a SAR evaluation is required if the separation distance is less than 200 mm.

Maximum conducted peak power: 192.31 mW
 Antenna Gain: 1.7 dbi
 Maximum EIRP available 284.4 mW

Since maximum output power of the transmitter is 284.4mW < 309mW, hence the EUT is excluded from SAR evaluation according to Table 1 in RSS-102

Separation distance is more than 20 cm, thus mobile device exposure limits can be applied

Maximum Exposure:

Power to Antenna (mW)	192.31 mW
Power to Antenna (dBm)	22.8 dBm
Antenna Gain	5 dBi
Power+Ant Gain	608.1 mW
Distance	20 cm
S=	0.121 mW/cm ²

Limit Canada: 0.542 mW/cm²

---End---