

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 $192.31\text{mW} < 196\text{mW}$ (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 $284.4\text{mW} < 309\text{mW}$, 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/cm^2

---End---