

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
 RSS-102 Issue 5, 2.5.2

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

FCC:
Maximum Exposure
802.11n HT20MHz

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Output Power (dBm)	Output Power (mW)	Power Density (S)	Limit of Power Density (S)	Test Result
					(mW/cm ²)	(mW/cm ²)	
2437	-1.00	0.7943	20.7100	117.7606	0.018619	1	Complies

Power Density Limit for FCC:

1500-100,000 MHz 1.0 mW/cm²

ISED:
Exemption Limits for Routine Evaluation – RF Exposure Evaluation

At or above 300MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W, where f is in MHz;

f= 2437MHz

$$1.31 \times 10^{-2} \times 2437^{0.6834} = 2.70W$$

After evaluation the 2437MHz e.i.r.p 19.71dBm calculated result is closer to its limit.

19.71dBm = 0.09354W, it is well below the limit of Exemption Limits for Routine Evaluation, so RF exposure assessment meets its standards.

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