

Appendix 5

RF Exposure Information

FCC ID: 2A2XI015
IC ID: 27849-015
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Maximum transmitter power:

Frequency (MHz)	Maximum peak field strength (dBμV/m)	Maximum transmitter power (mW)
2402	80.3	0.032
2404	78.4	0.021
2471	81.4	0.041

Note: The maximum peak field strength was taken from table of "Subclause 15.249(a)/RSS-210 B.10(a) – Field Strength of Fundamental and Harmonics".

For FCC

According to KDB 447498 D01:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 5 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$
 ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

Result:

$$(0.032/5) \cdot \sqrt{2.402} = 0.010 < 3.0$$

$$(0.021/5) \cdot \sqrt{2.440} = 0.016 < 3.0$$

$$(0.041/5) \cdot \sqrt{2.471} = 0.013 < 3.0$$

Conclusion:

No SAR is required.

For ISED

According to table 1 in RSS-102 Issue 6, below exemption limit is applied

Frequency: 2471 MHz

At separation distance of ≤ 5mm

Exemption limits: 3mW

Results:

max. power of channel = 0.041mW < 3mW

Conclusion:

The maximum peak output power of the transmitter is less than the SAR evaluation exemption threshold and hence it complies with the RSS-102 RF exposure requirement