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Appendix 5 RF Exposure Information



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Maximum transmitter power:

Frequency (MHz)	Maximum peak output power (dBuV/m)	Output power (mW)
2420	81.40	0.0414
2440	86.00	0.1194
2462	88.90	0.2329

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* ≤50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ 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:

 $(0.0414/5)^*\sqrt{2.420} = 0.013 < 3.0$

 $(0.1194/5)^*\sqrt{2.440} = 0.037 < 3.0$

 $(0.2329/5)^*\sqrt{2.462} = 0.073 < 3.0$

Conclusion:

No SAR is required.

For IC

According to table 1 in RSS-102 Issue 5, below exemption limit is applied Frequency: 2450MHz At separation distance of ≤ 5mm Exemption limits: 4mW

Results:

max. power of channel = 88.90dBuV/m = 0.2329mW < 4mW

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