

Appendix 5 RF Exposure Information



Maximum transmitter power:

Frequency (MHz)	Maximum peak output power (dBm)	Output power(mW)
2410	-6.25	0.237
2440	-5.42	0.287
2472	-5.01	0.316

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 [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 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:

 $(0.237/5)*\sqrt{2.410} = 0.074 < 3.0$

 $(0.287/5)*\sqrt{2.440} = 0.087 < 3.0$

 $(0.316/5)^*\sqrt{2.472} = 0.099 < 3.0$

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

Frequency	Exemption limits	
(MHz)	(mW, by linear interpolation)	
2400	4.273	
2483.5	3.936	

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 without SAR evaluation..