

Appendix 5 RF Exposure Information

FCC_15.249_v2.0



Maximum transmitter power:

Frequency	Maximum peak output power	Output power
(MHz)	(dBm)	(mW)
2420	-3.5	0.444
2439	-5.1	0.307
2455	-3.4	0.454

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:

 $(0.444/5)^*\sqrt{2.420} = 0.14 < 3.0$

(0.307/5)*√2.439 = 0.10 < 3.0

(0.454/5)*√2.455 = 0.14 < 3.0

Conclusion:

No SAR is required.

For ISED

According to table 1 in RSS-102 Issue 5, below exemption limit is applied Frequency: 2450MHzAt separation distance of $\leq 5mm$ Exemption limits: 4Mw

Results:

max. power of channel = 0.454mW < 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