

## Appendix 5 RF Exposure Information



## Maximum transmitter power:

Frequency (MHz)	Maximum peak output power (dBm)	Output power(mW)
2410	-3.41	0.4560
2440	-4.10	0.3890
2472	-5.08	0.3105

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  $\le 7.5$  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:

 $(0.4560/5)^*\sqrt{2.410} = 0.1416 < 3.0$ 

 $(0.3890/5)^*\sqrt{2.440} = 0.1215 < 3.0$ 

 $(0.3105/5)^*\sqrt{2.472} = 0.0976 < 3.0$ 

## 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  $\leq 5$ mm
- 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..