

# **Appendix 5**

## **RF Exposure Information**

**Maximum transmitter power:**

Frequency (MHz)	Maximum peak output power (dBm)	Output power (mW)
2420	-0.4	0.906
2447	1.5	1.403
2465	-0.3	0.927

**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:

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

- 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:**

$$(0.906/5) \cdot \sqrt{2.420} = 0.28 < 3.0$$

$$(1.403/5) \cdot \sqrt{2.447} = 0.44 < 3.0$$

$$(0.927/5) \cdot \sqrt{2.465} = 0.29 < 3.0$$

**Conclusion:**

No SAR is required.

**For ISED**

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 = 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