Appendix 5 RF Exposure Information

Maximum transmitter power:

Frequency	Maximum average output power	Output power
(MHz)	(dBm)	(mW)
2410	-0.03	0.993
2442	-0.13	0.971
2473	2.57	1.808

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 [$\sqrt{f(GHz)}$] \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:

$$(0.993/5)^*\sqrt{2.410} = 0.308 < 3.0$$

 $(0.971/5)^*\sqrt{2.442} = 0.286 < 3.0$
 $(1.808/5)^*\sqrt{2.473} = 0.569 < 3.0$

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 = 1.808mW < 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