

## 10 Appendix A - General Product Information

## Radiofrequency radiation exposure evaluation

This exposure evaluation is intended for FCC ID: 2AJ9O-HG9913

According to KDB 447498 D01v06 section 4.3.1, For frequencies between 100 MHz to 6GHz and test separation distances ≤ 50 mm, the Numeric threshold is determined as:

## Step a)

[(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

>> The fundamental frequency of the EUT is 2402-2480MHz, the test separation distance is ≤ 50mm. (Manufacturer specified the separation distance is: 5mm) (5mm is the worst case according to the KDB)

## Step b)

- >> Numeric threshold (2402MHz), mW / 5mm \*  $\sqrt{2.402}$ GHz  $\leq 3.0$  Numeric threshold (2402MHz)  $\leq 9.678$ mW
- >> Numeric threshold (2441MHz), mW / 5mm \*  $\sqrt{2.440}$ GHz  $\leq 3.0$  Numeric threshold (2441MHz)  $\leq 9.602$ mW
- >> Numeric threshold (2480MHz), mW / 5mm \*  $\sqrt{2.480}$ GHz  $\leq 3.0$  Numeric threshold (2480MHz)  $\leq 9.525$ mW
- >> The power (measured + tune up tolerance) of EUT at 2402MHz is: 4.96dBm = 3.13mW The power (measured + tune up tolerance) of EUT at 2441MHz is: 4.88dBm = 3.07mW The power (measured + tune up tolerance) of EUT at 2480MHz is: 4.74dBm = 2.98mW

Which is smaller than the Numeric threshold.

Therefore, the device is exempt from stand-alone SAR test requirements.

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