

9 Appendix A - General Product Information

Radiofrequency radiation exposure evaluation

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)]
· [$\sqrt{f(\text{GHz})}$] ≤ 3.0 for 1-g SAR

>> The fundamental frequency of the EUT is 433.92MHz, the test separation distance is $\leq 5\text{mm}$ & $\leq 20\text{mm}$.

(Manufacturer specified the separation distance is: 20mm)

Step a.1)

>> Numeric threshold, mW / **5 mm** * $\sqrt{0.43392\text{GHz}} \leq 3.0$
Numeric threshold \leq **22.771mW**

Step a.2)

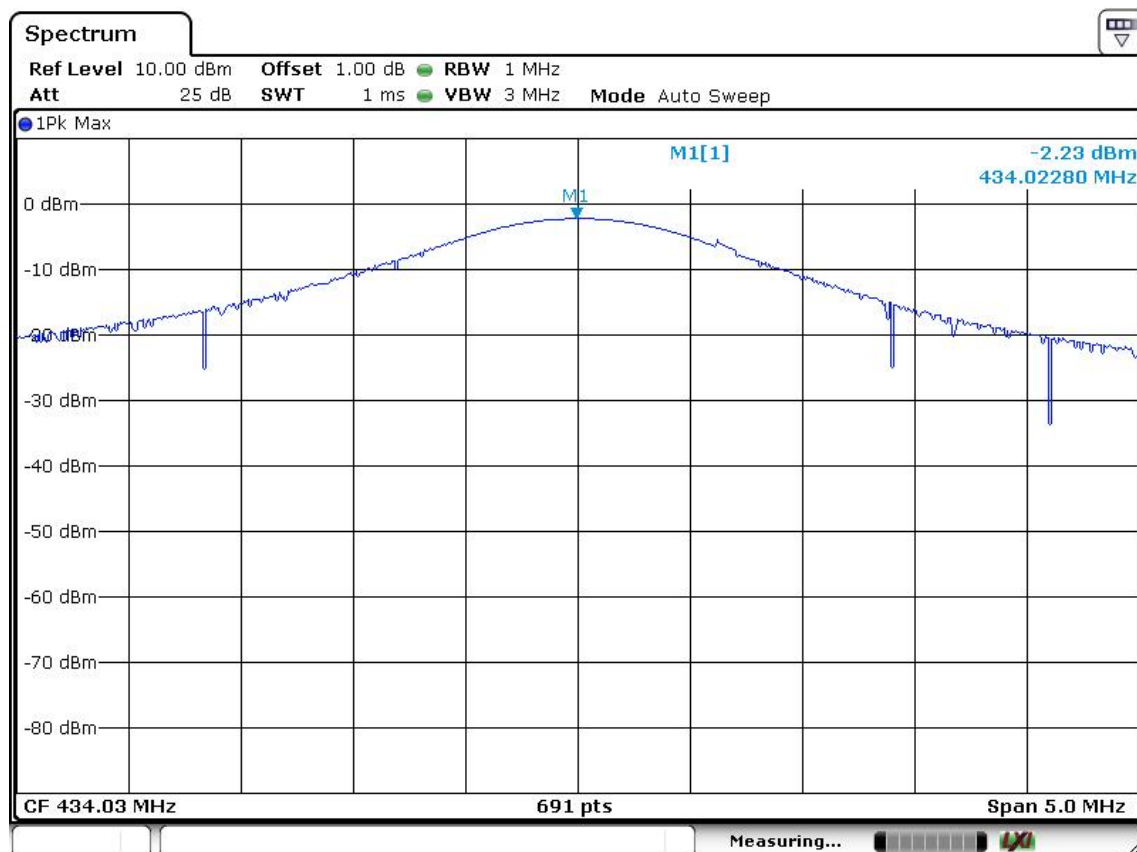
>> Numeric threshold, mW / **20 mm** * $\sqrt{0.43392\text{GHz}} \leq 3.0$
Numeric threshold \leq **91.084mW**

>> The power of EUT measured is: -2.23dBm = 0.598mW
Which is smaller than the Numeric threshold.
Therefore, the device is exempt from stand-alone SAR test requirements.

Appendix A - Conducted power

EUT: HG06061A-US-TX
Op Condition: Operated, TX Mode
Comment: 3 VDC
Remark: NA

Test Result
☒ Passed
☐ Not Passed



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