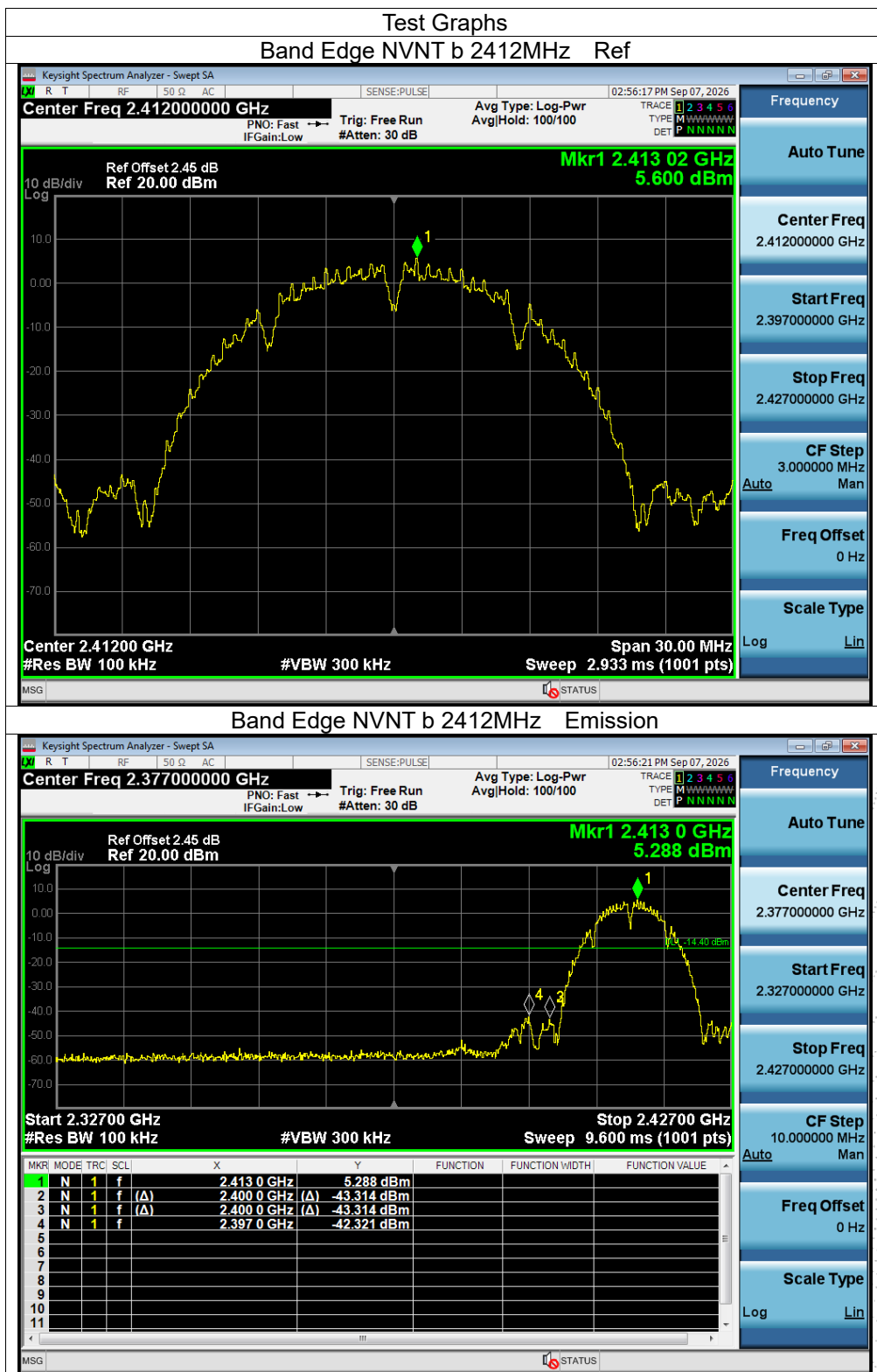
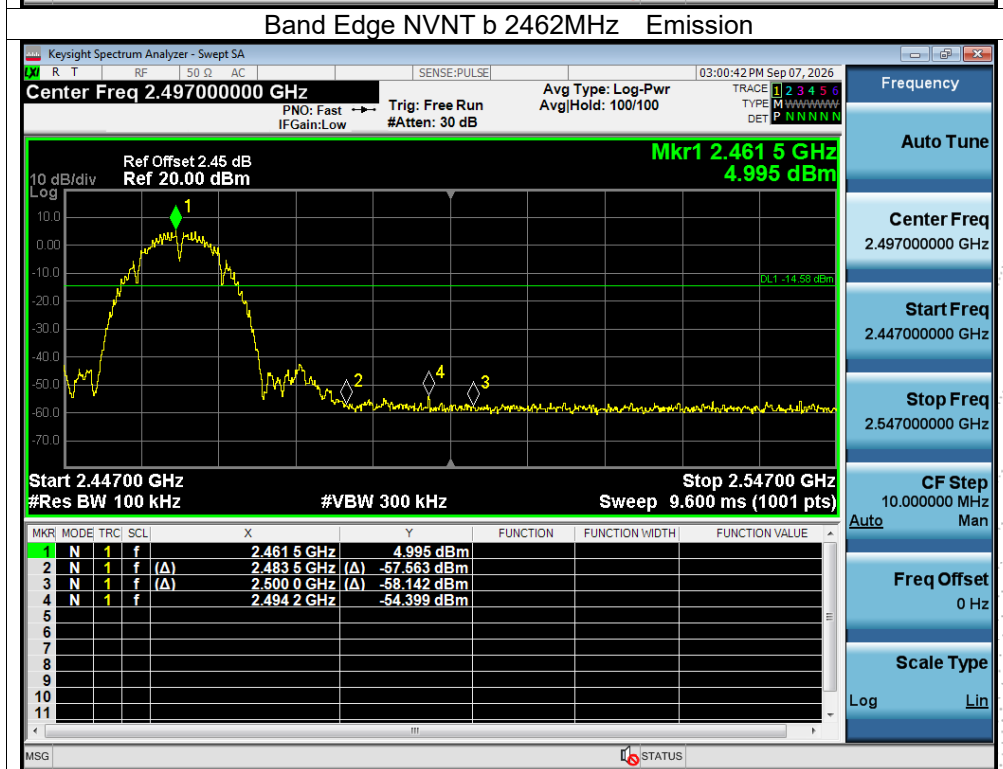
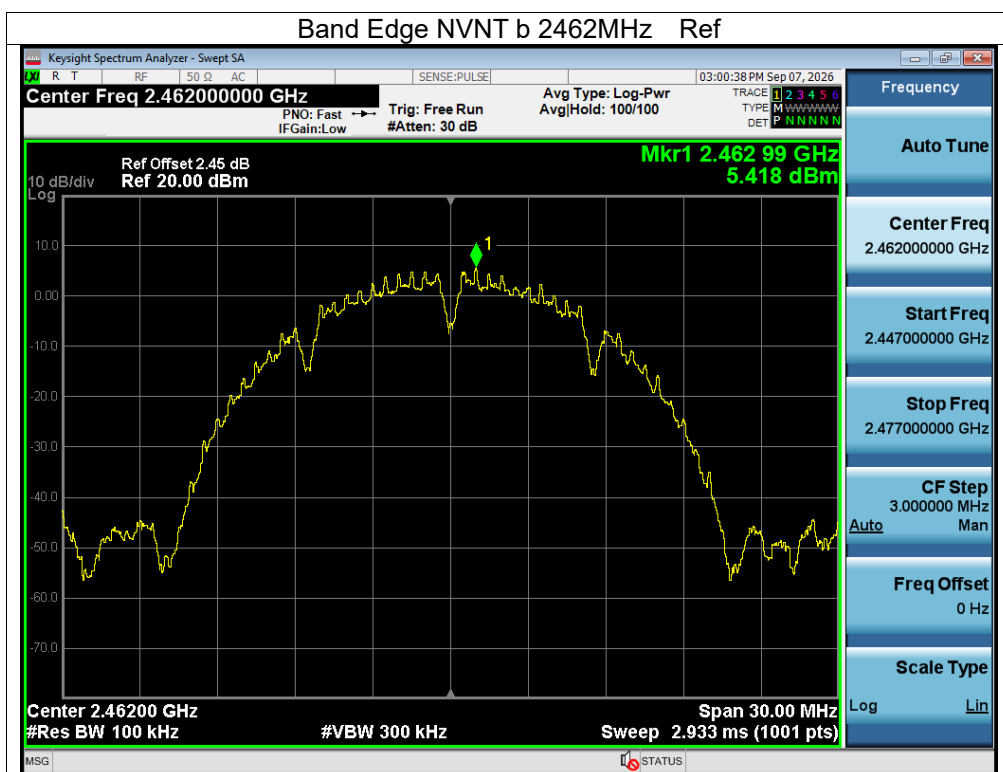
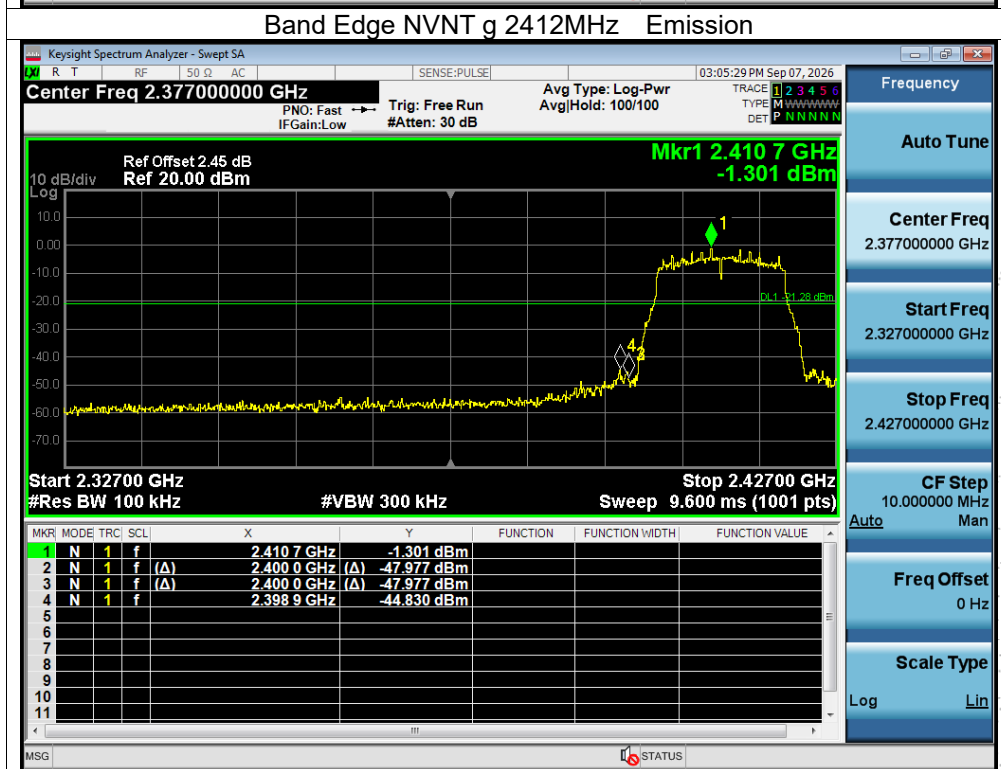
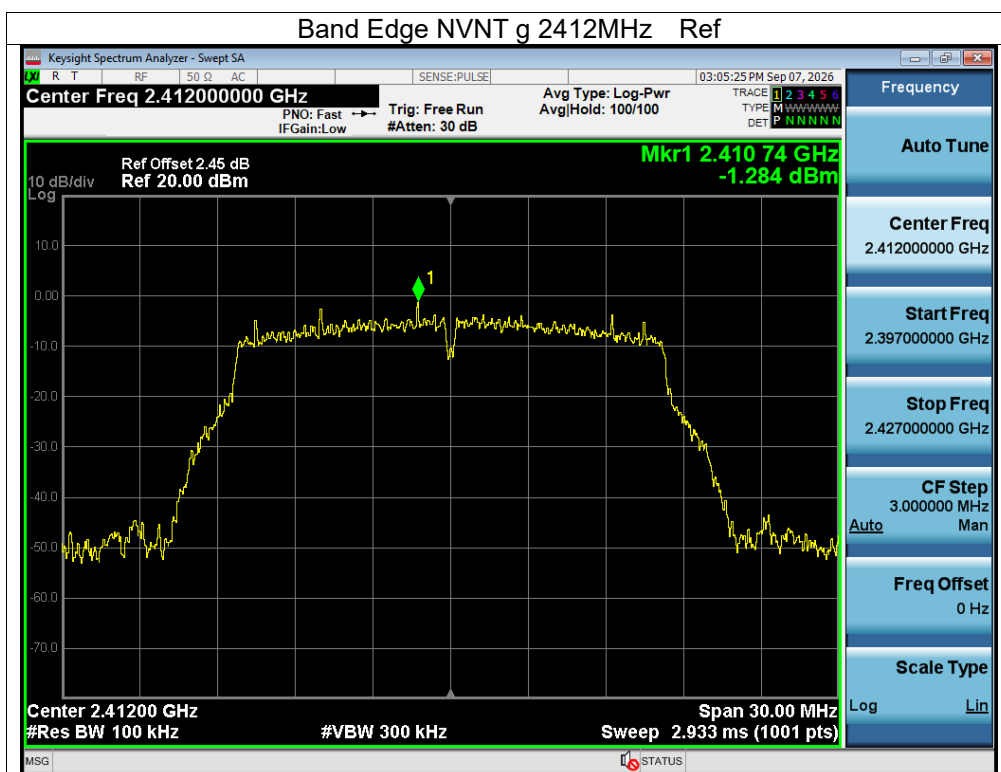


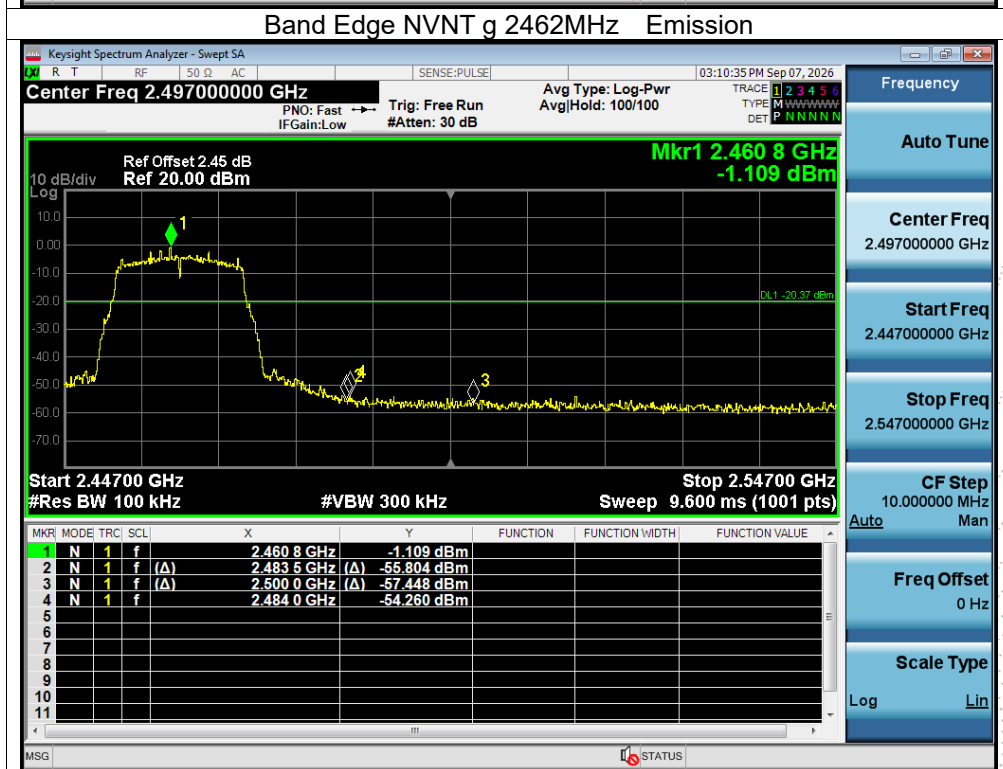
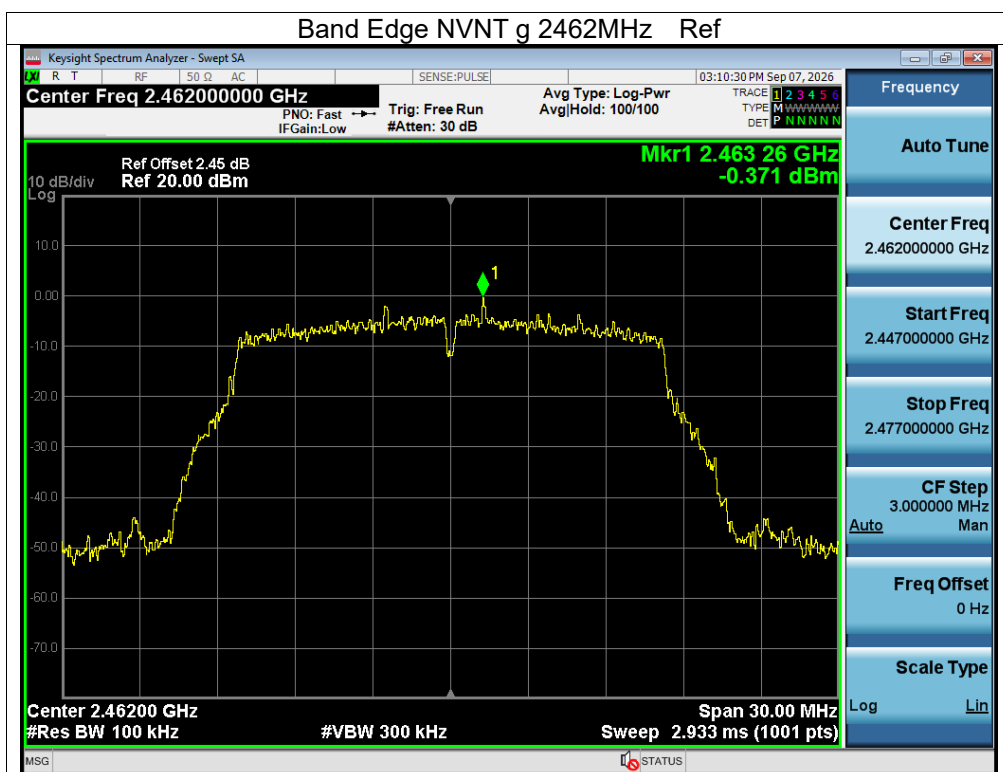
12.5 Test Result

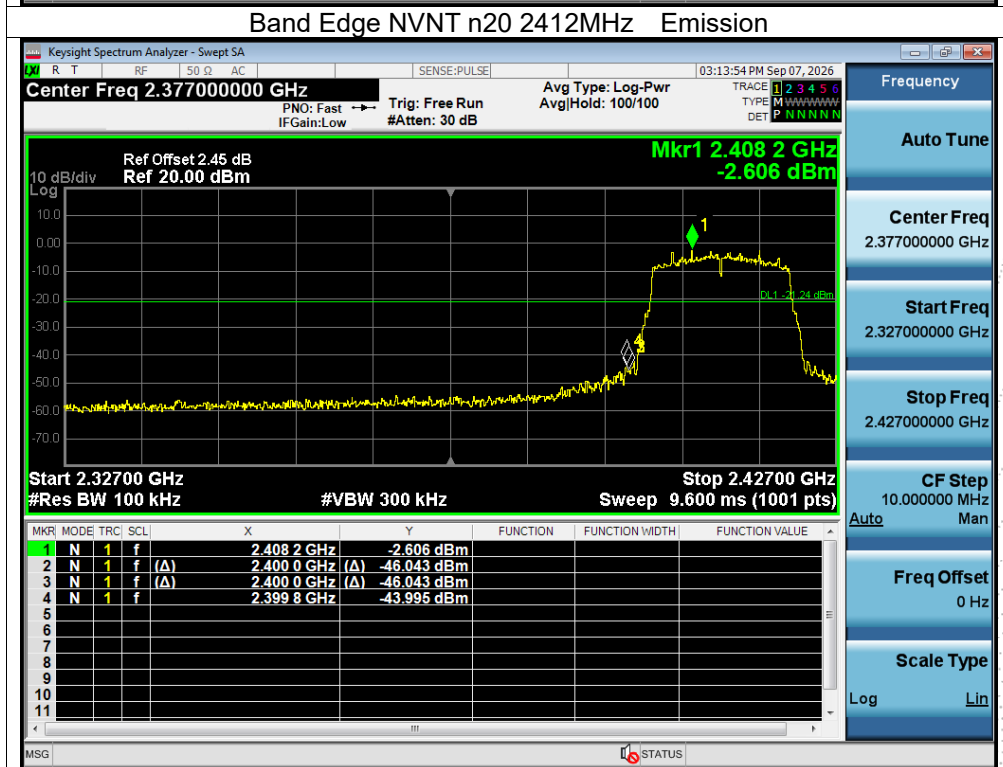
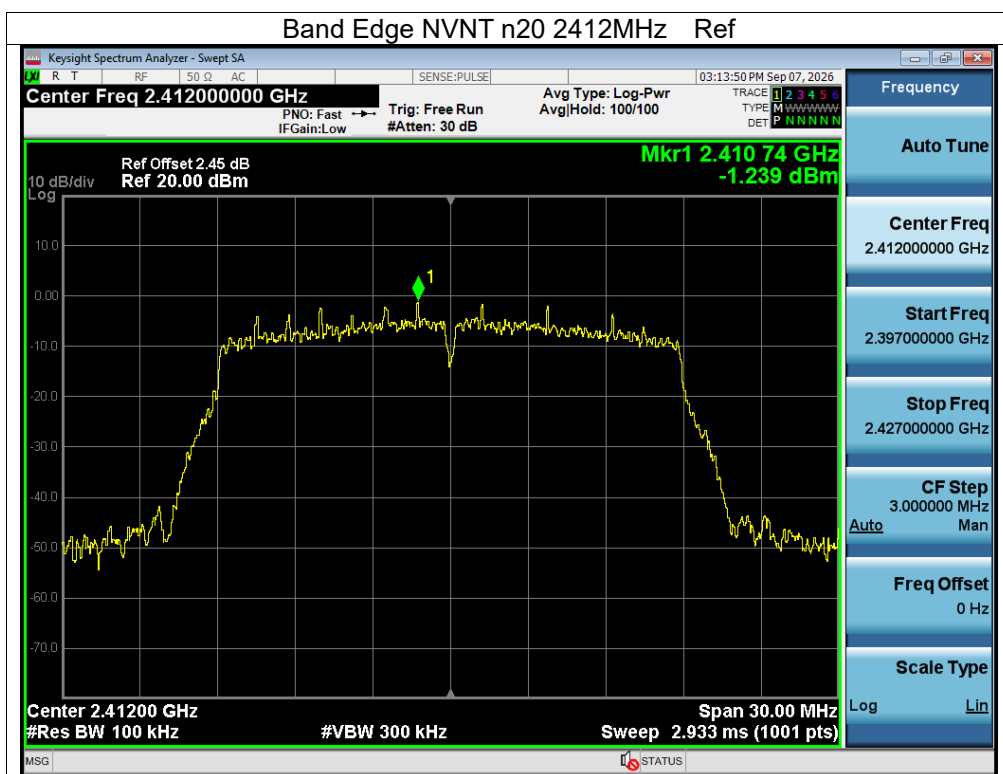
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.

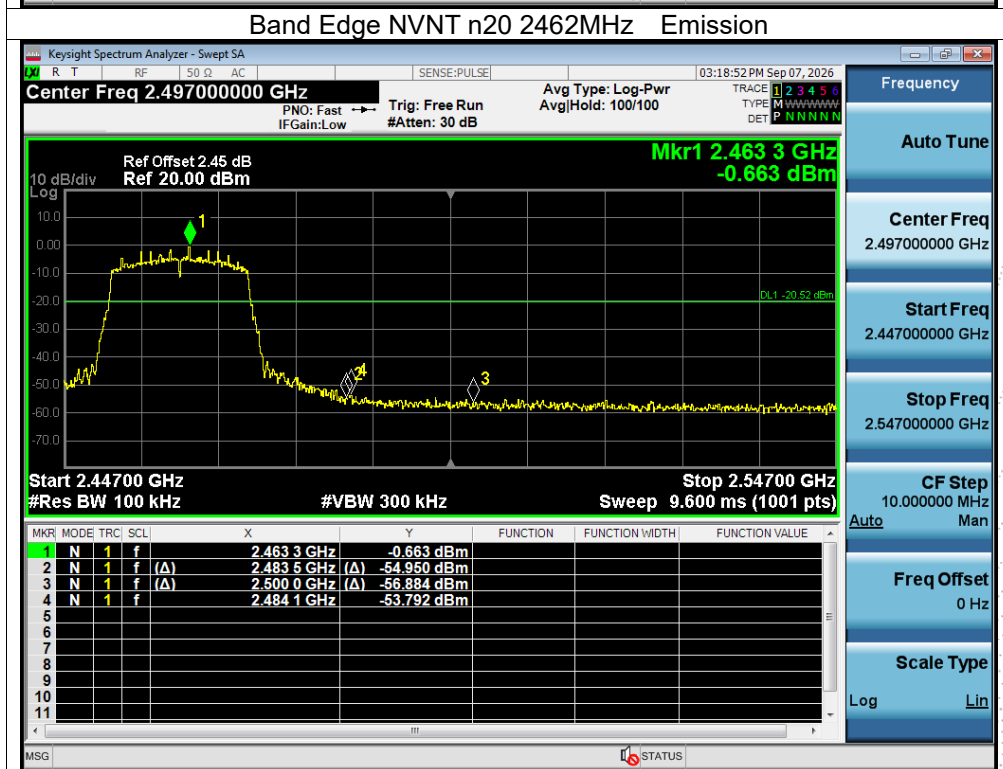
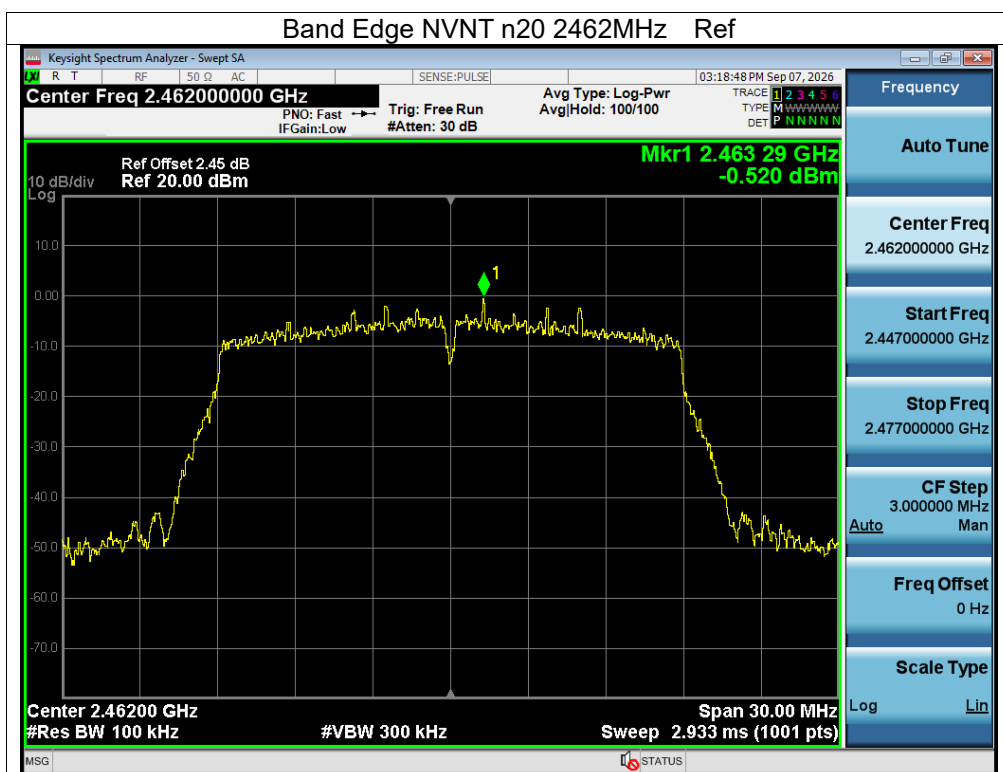




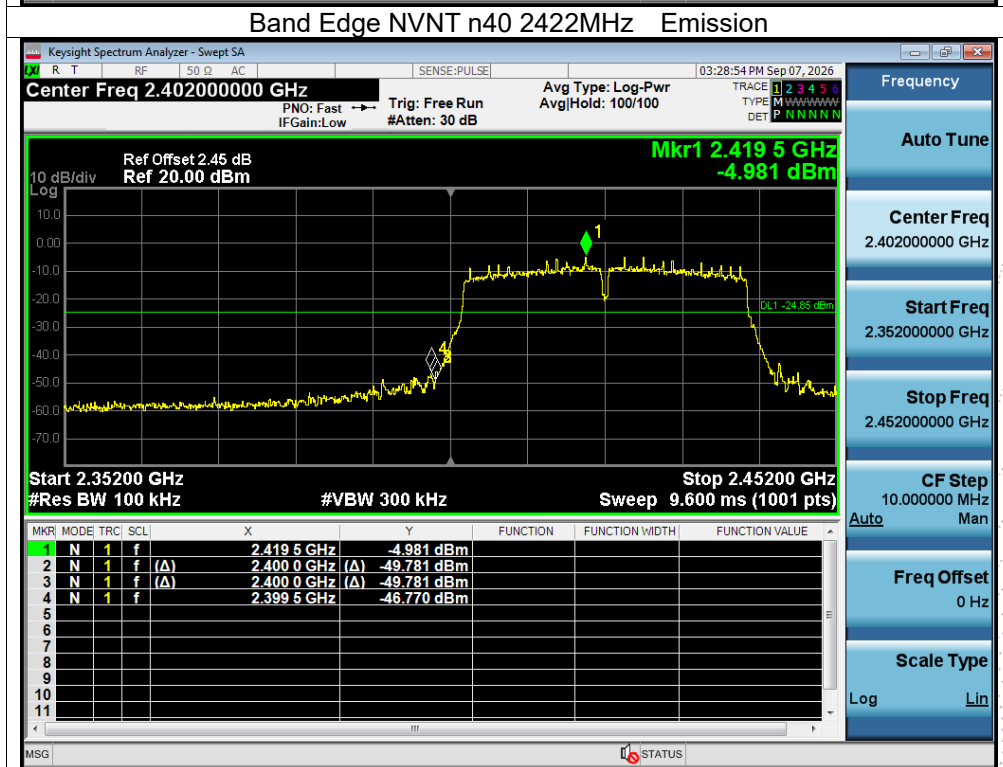
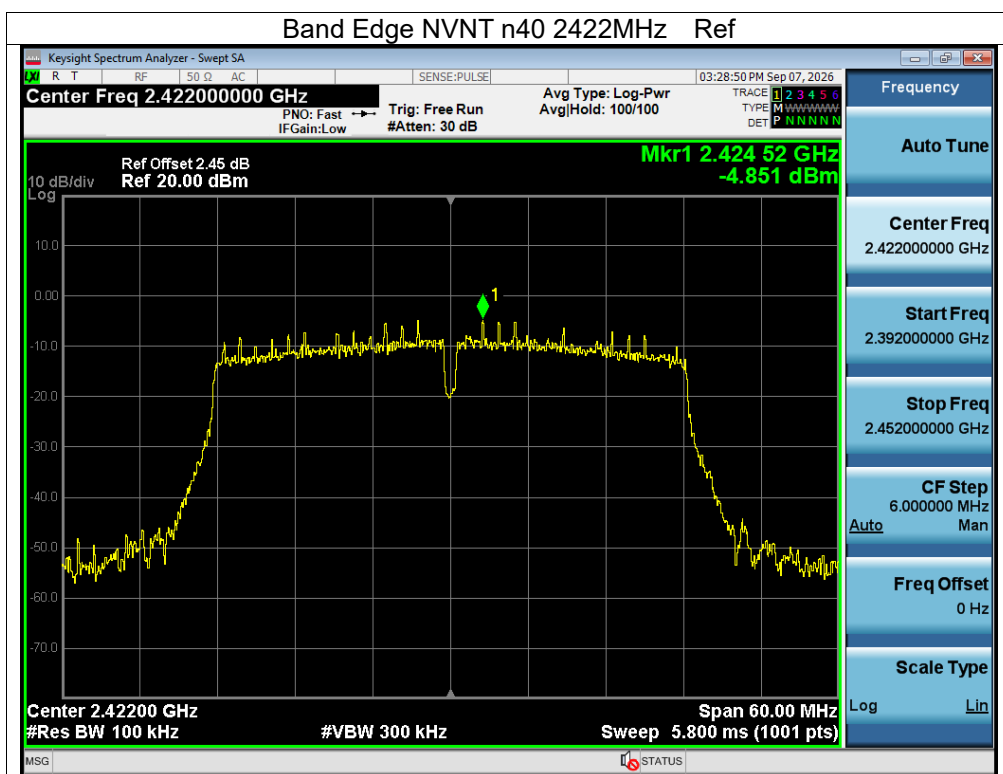


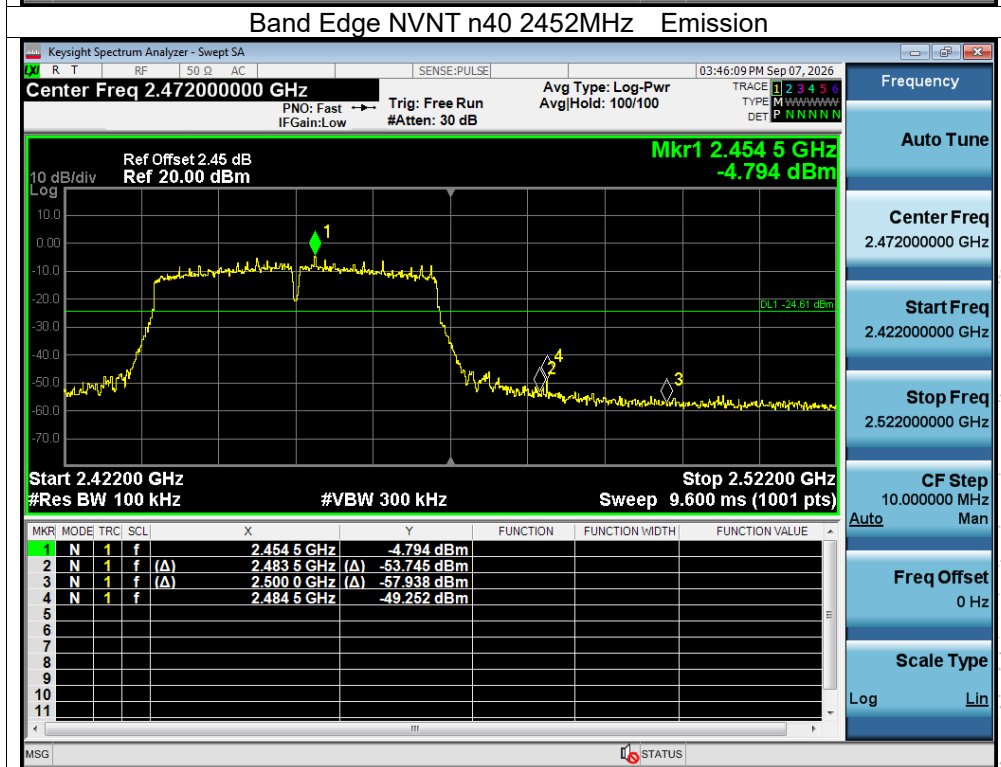
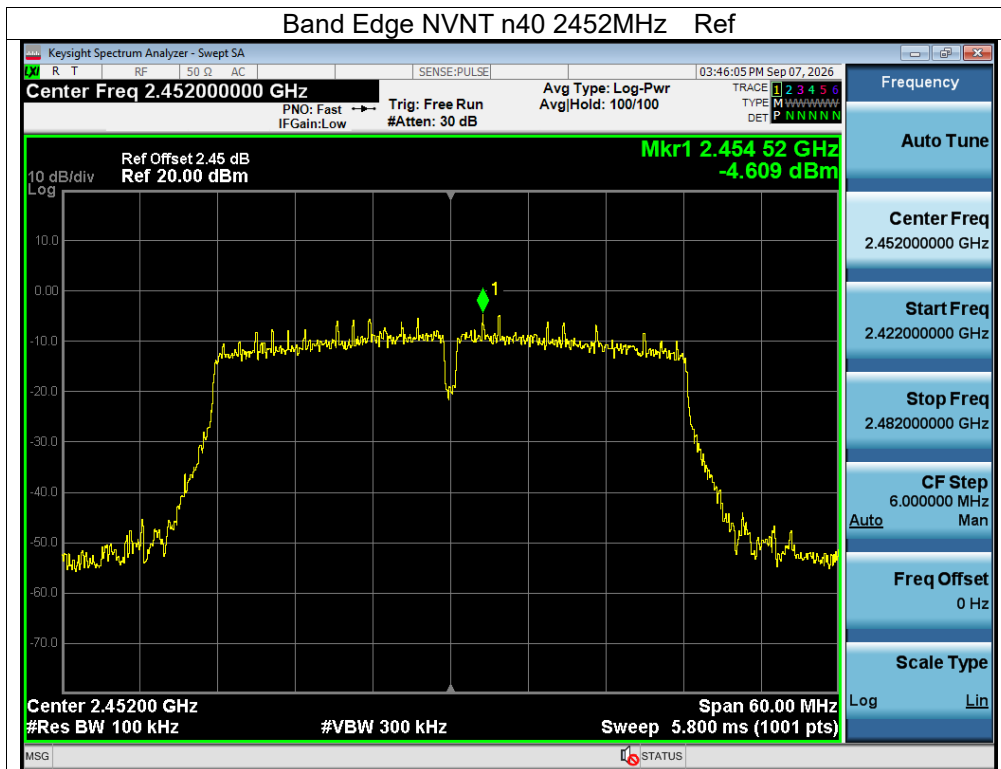


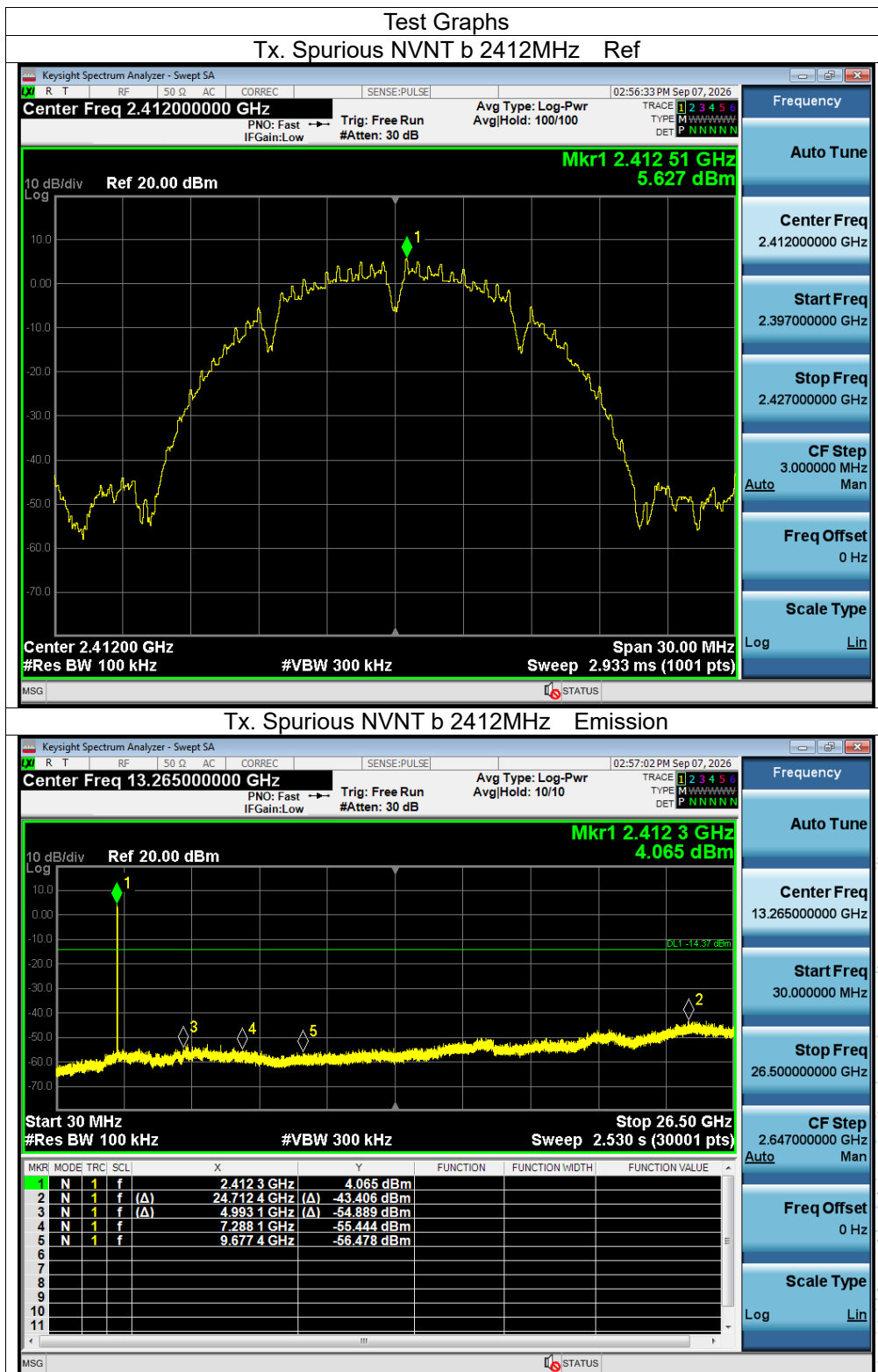


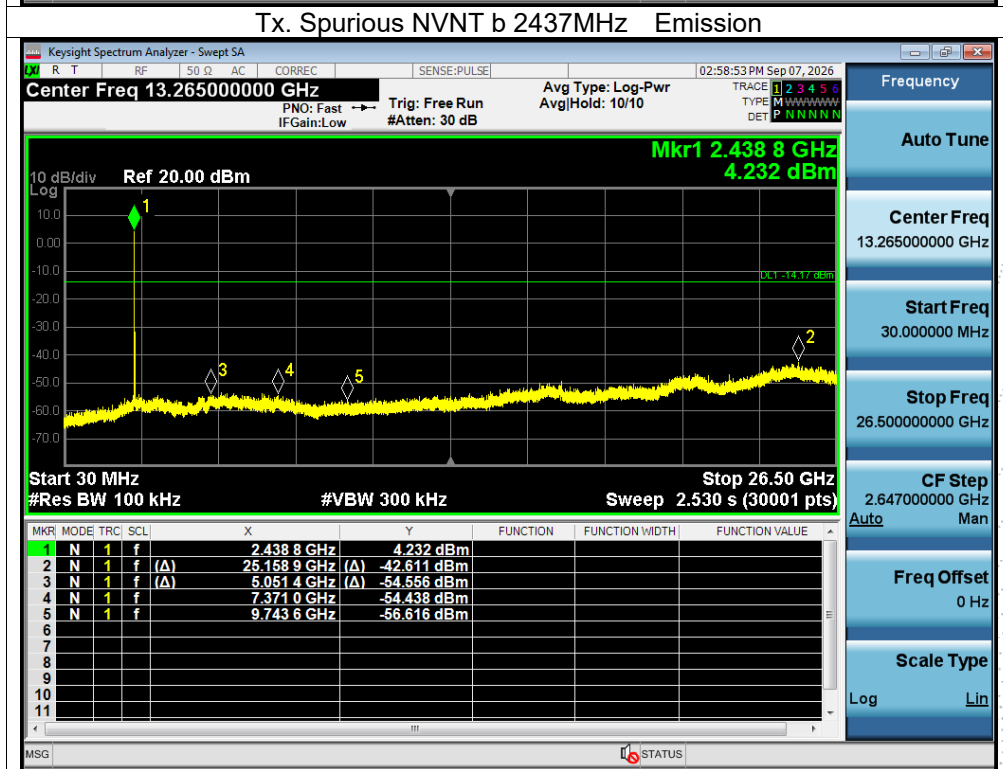
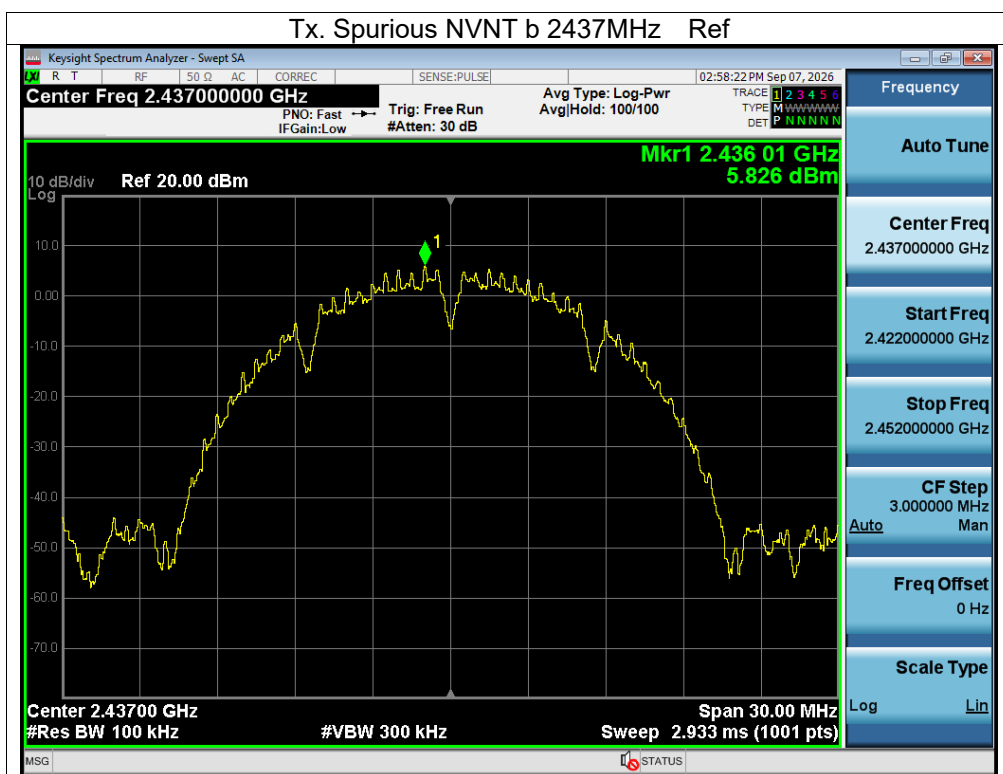


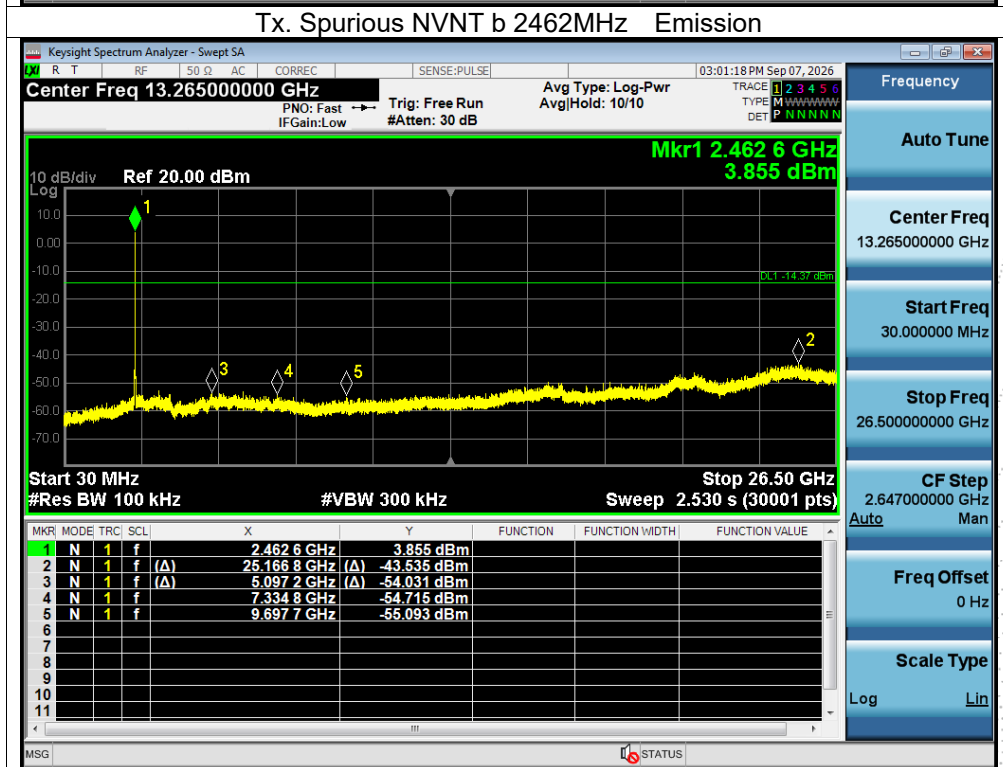
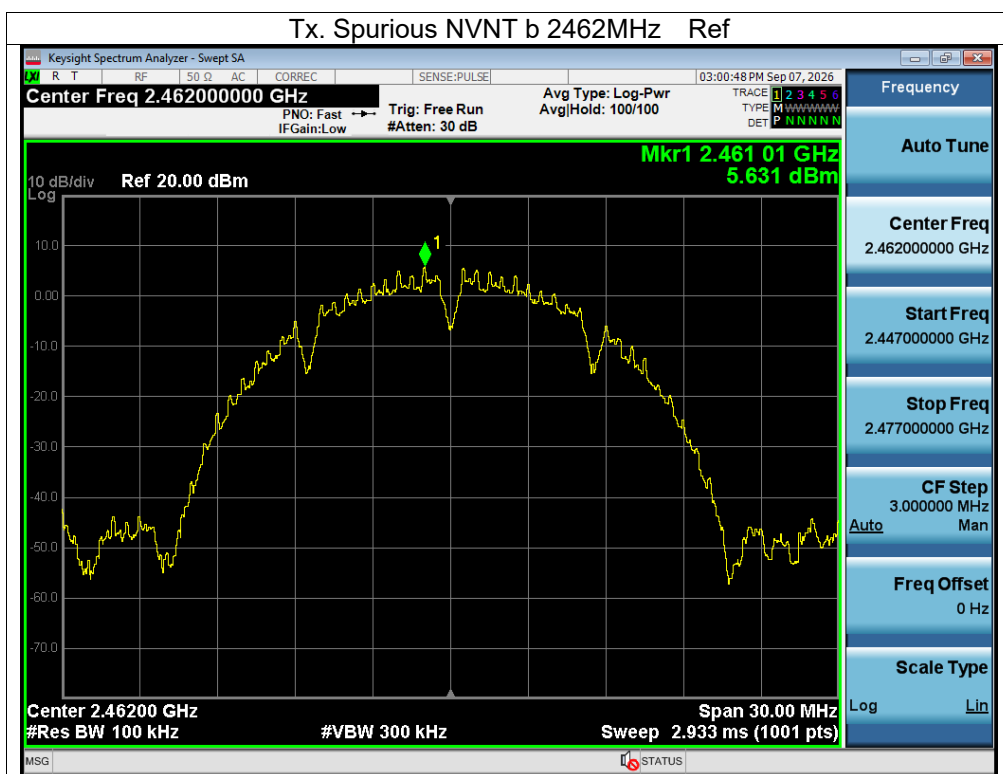
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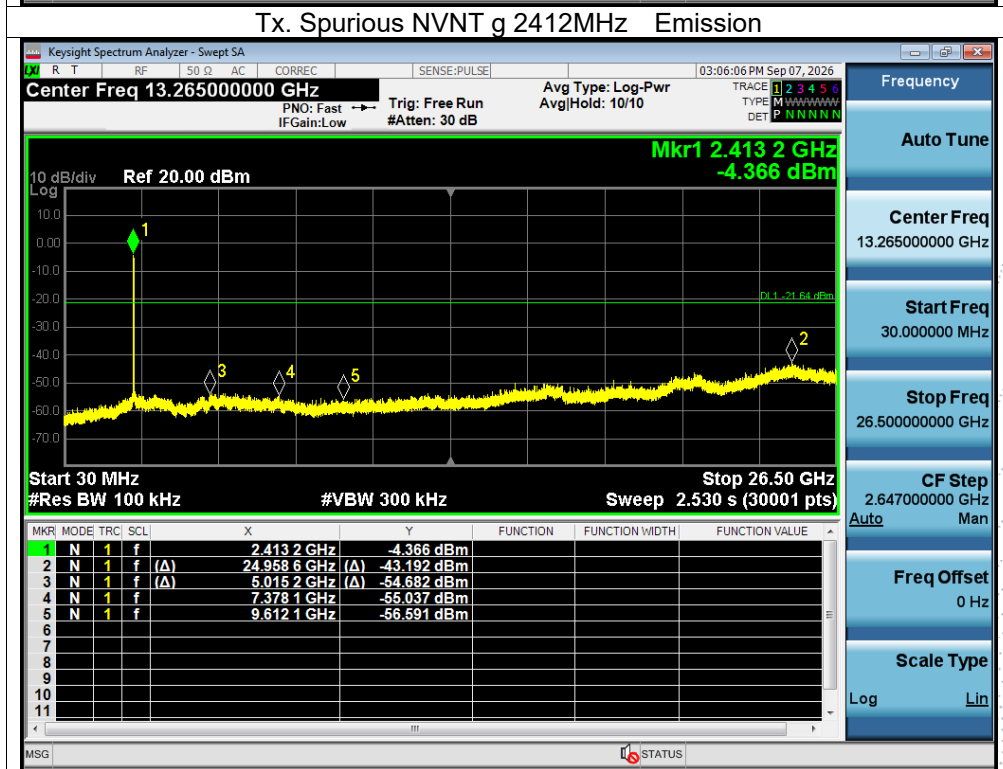
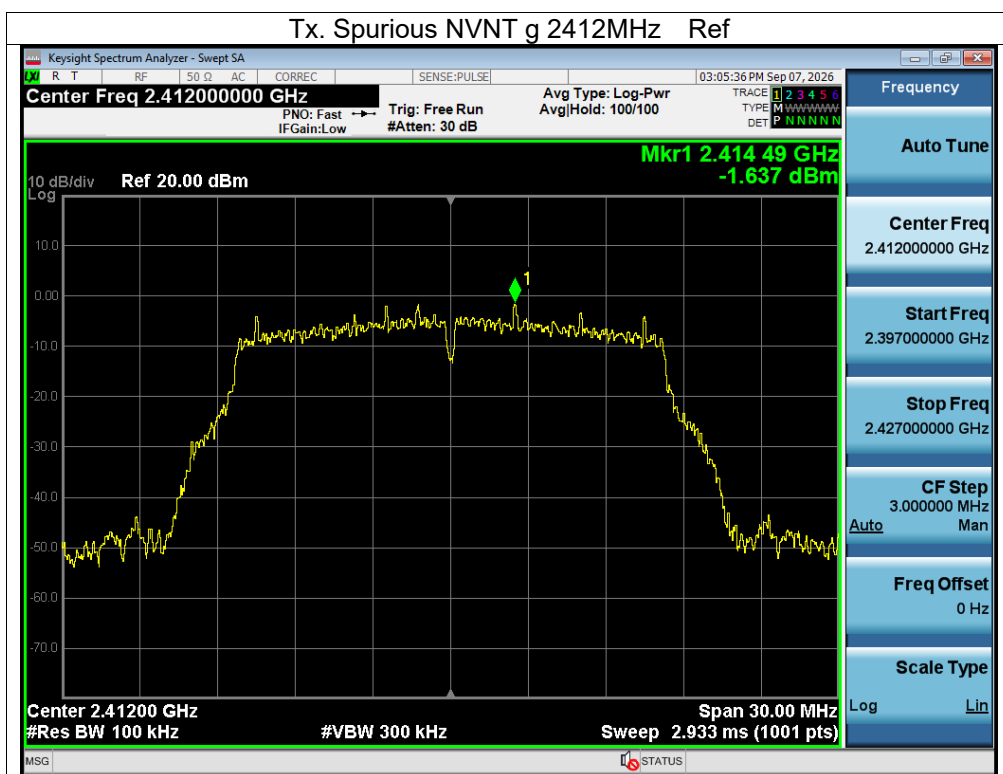


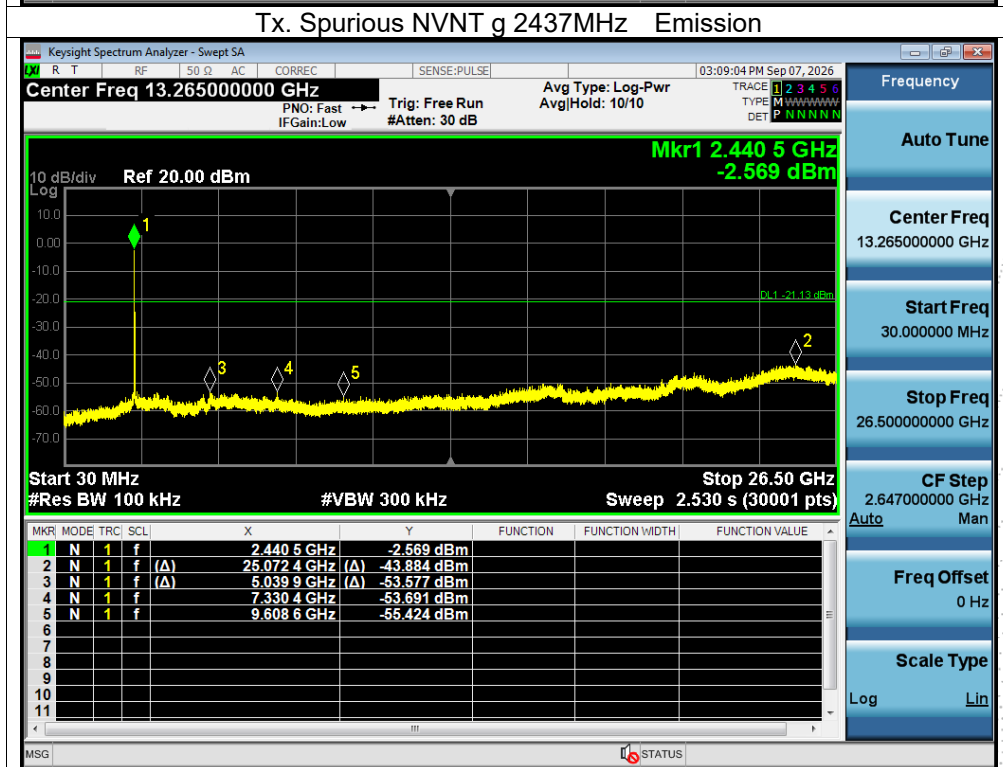
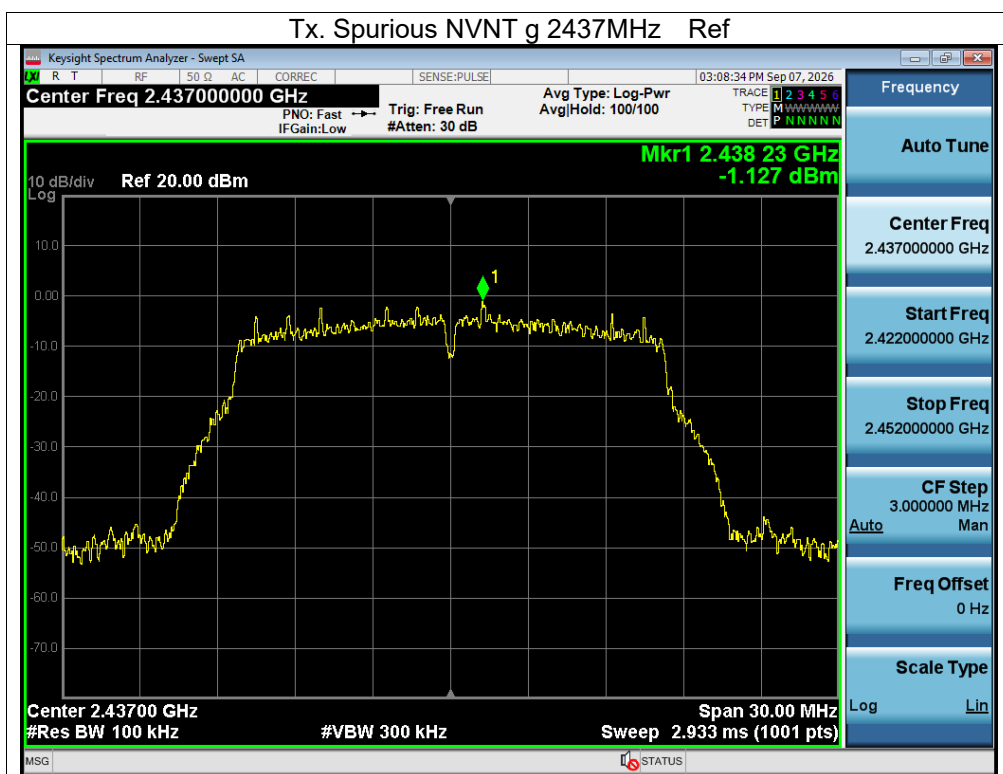


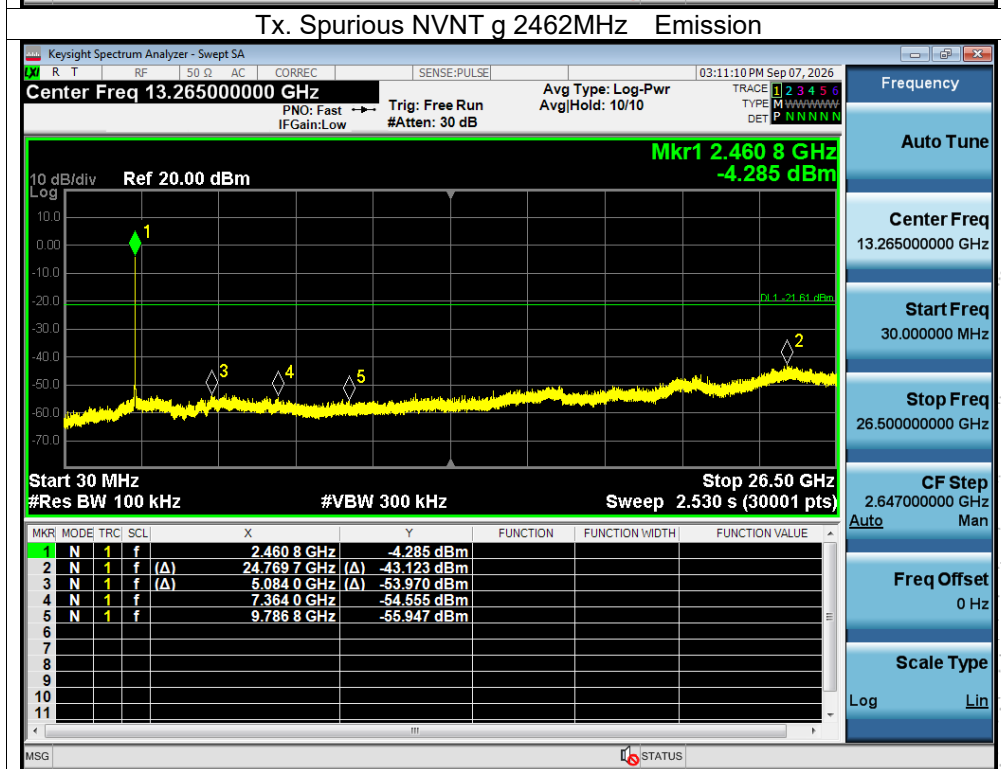
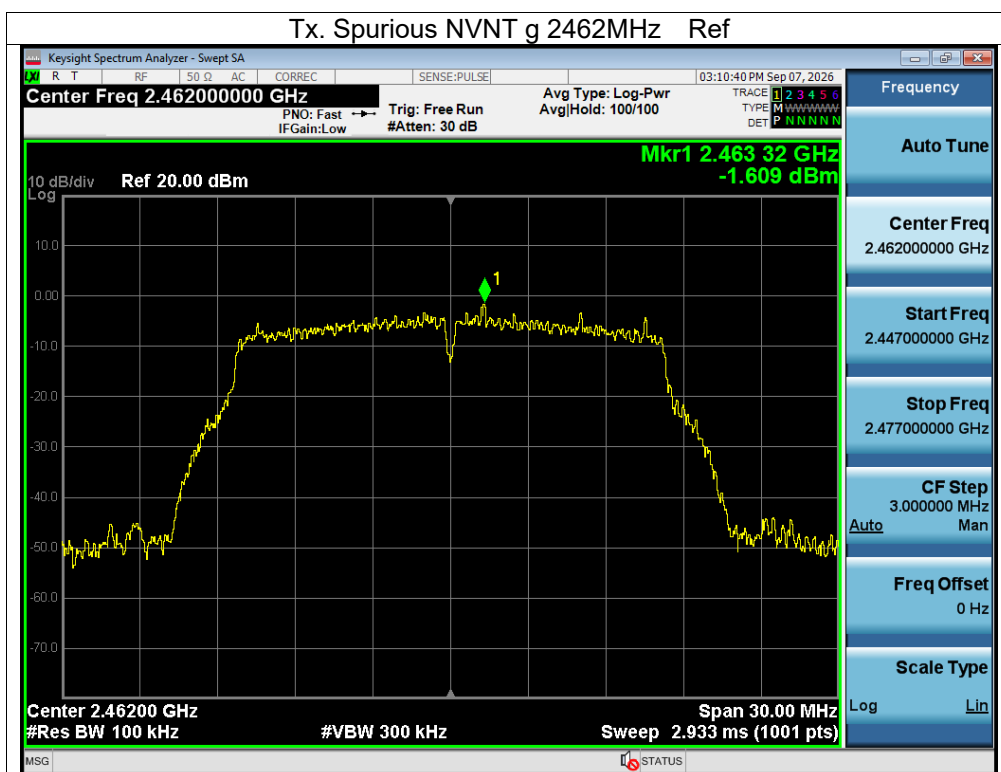
Conducted RF Spurious Emission


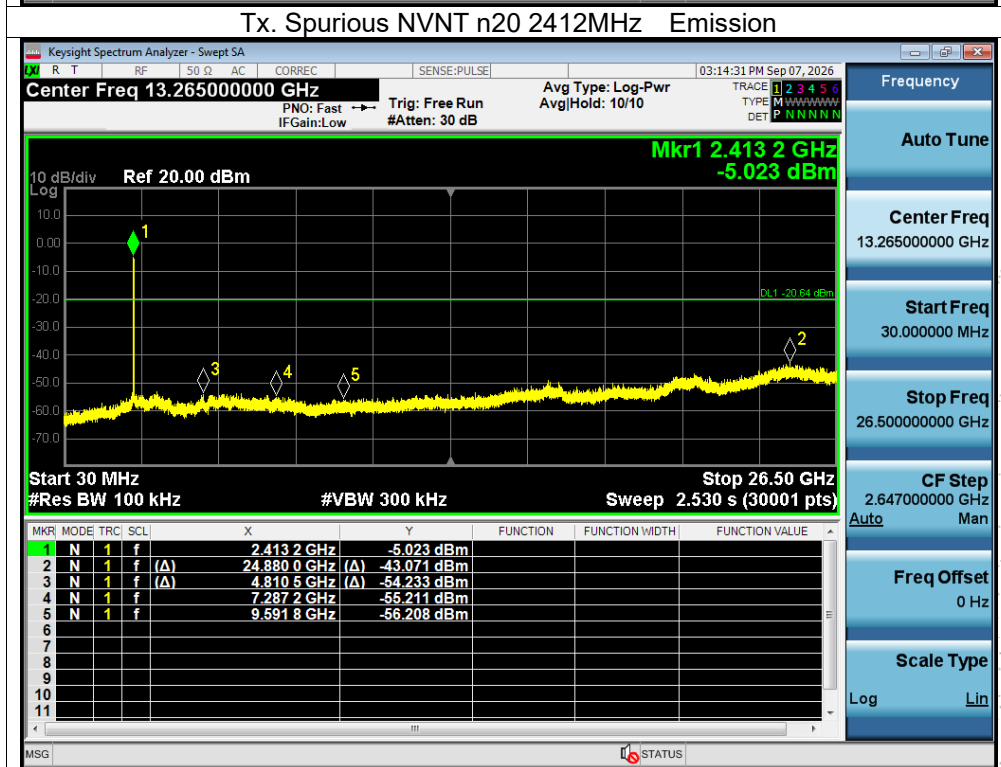
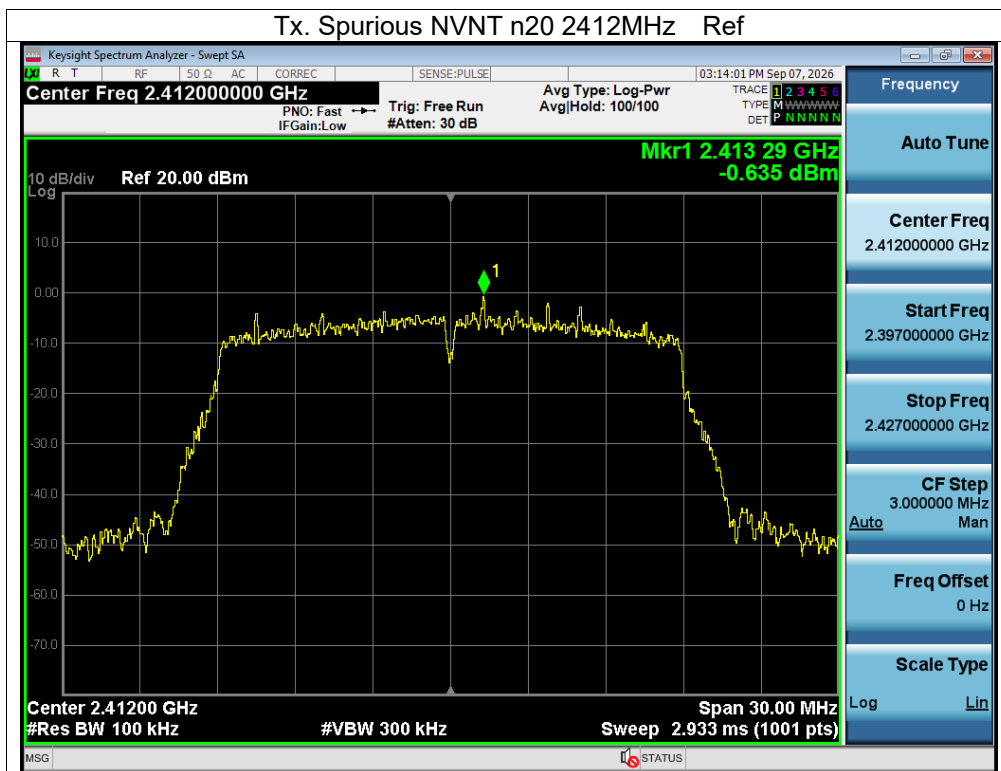


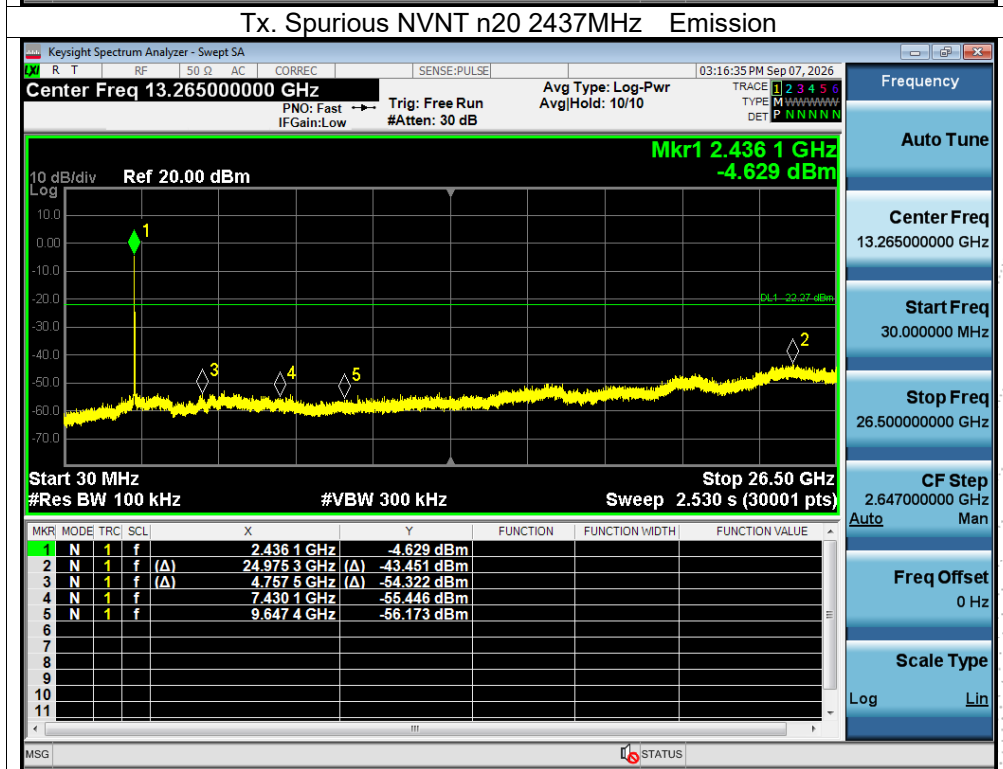
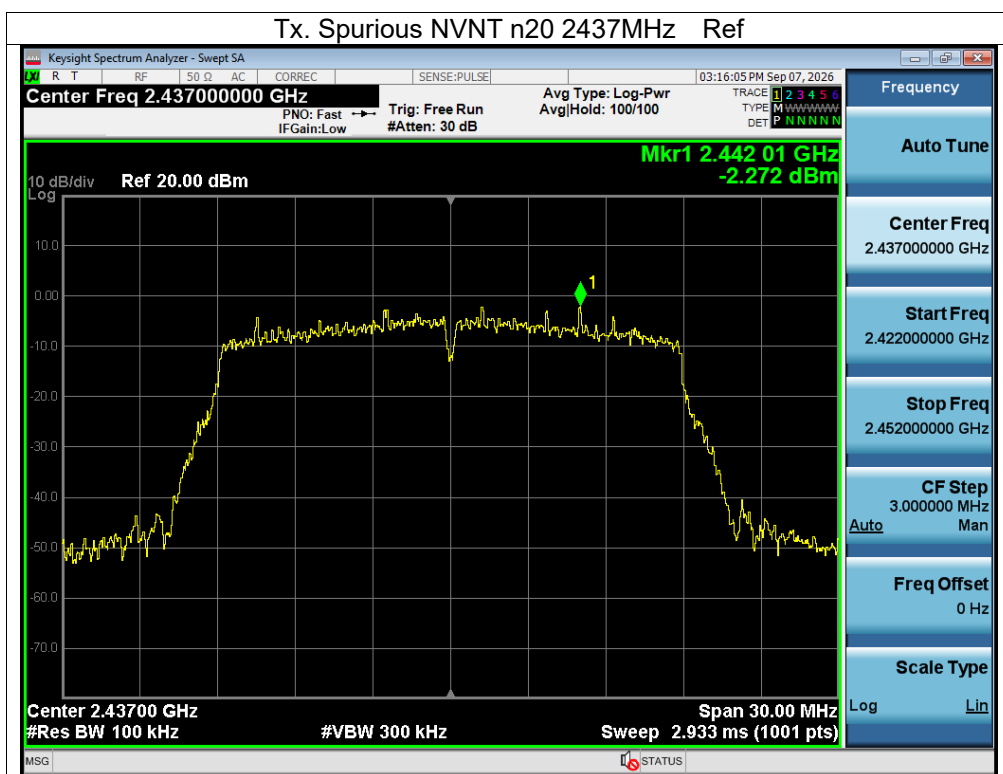


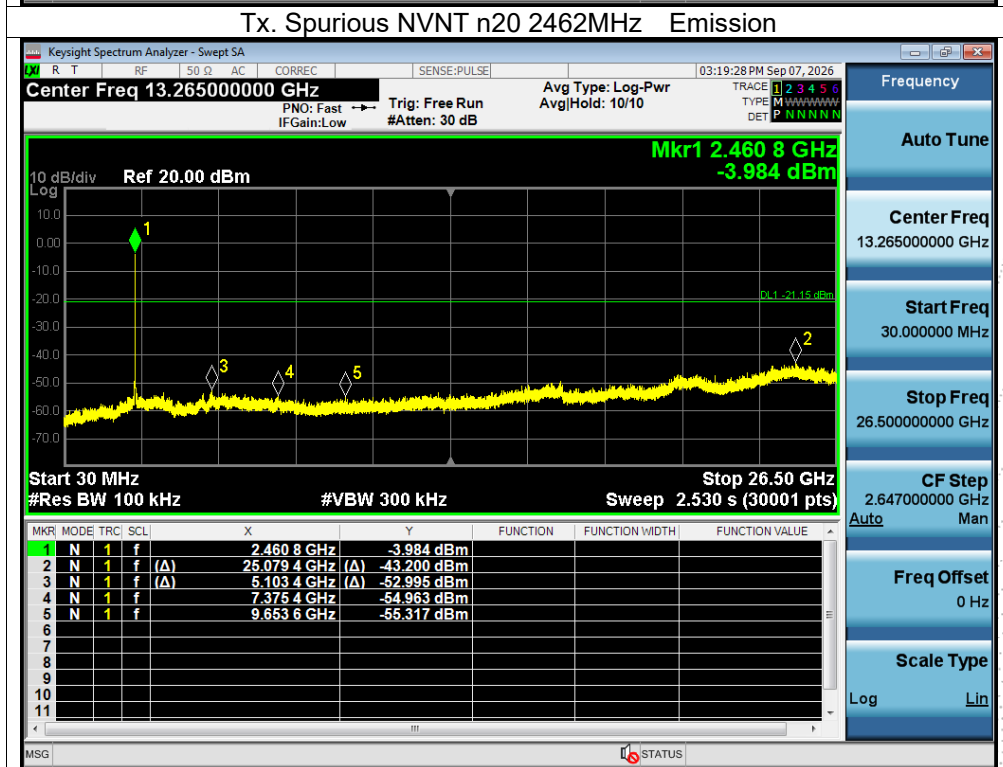
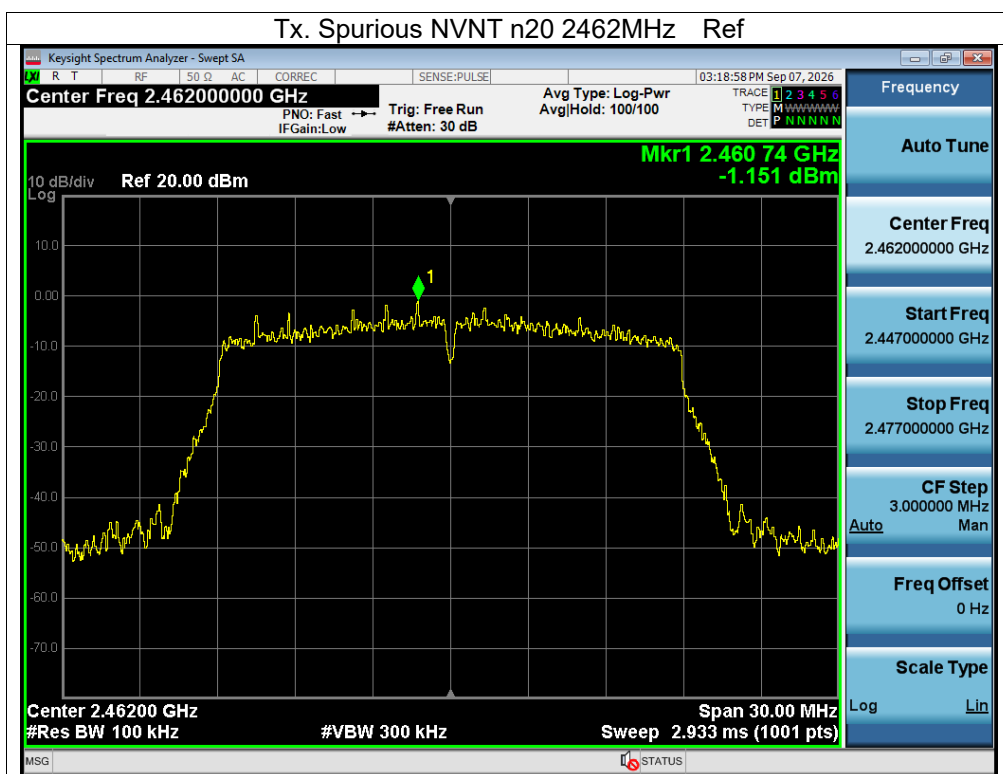


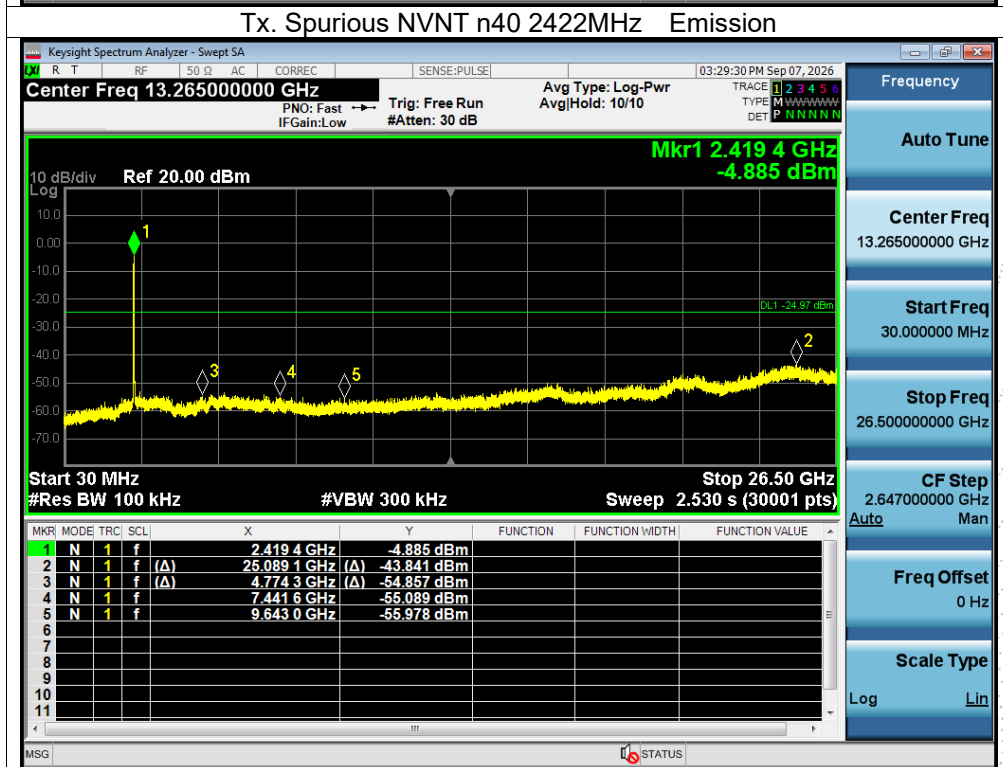
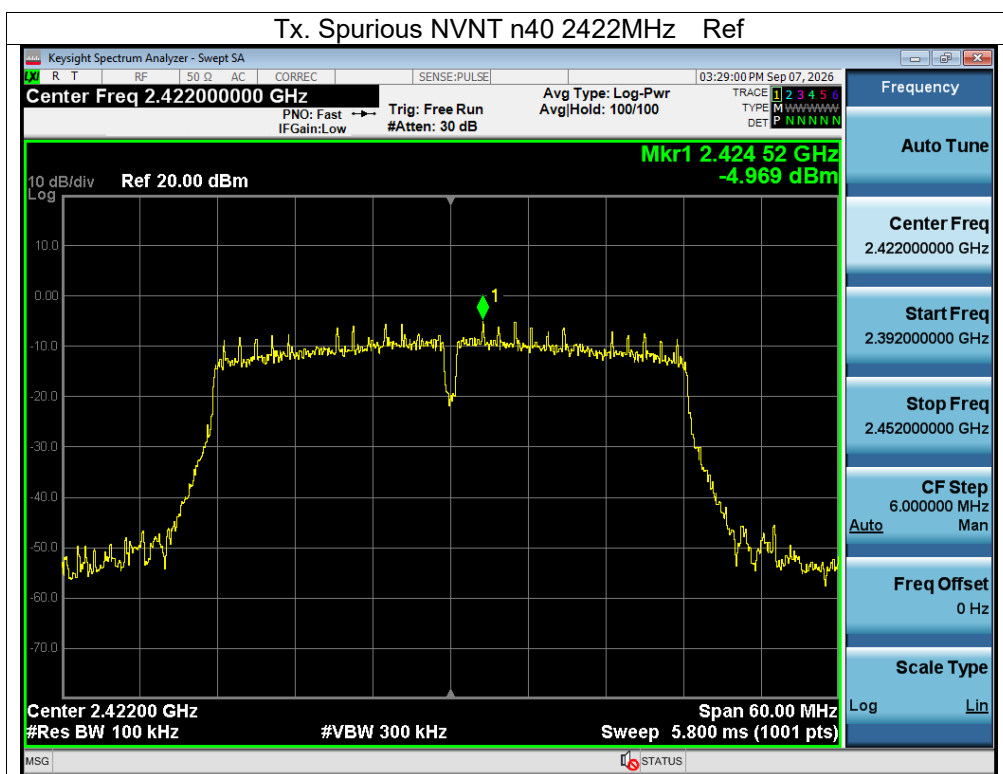


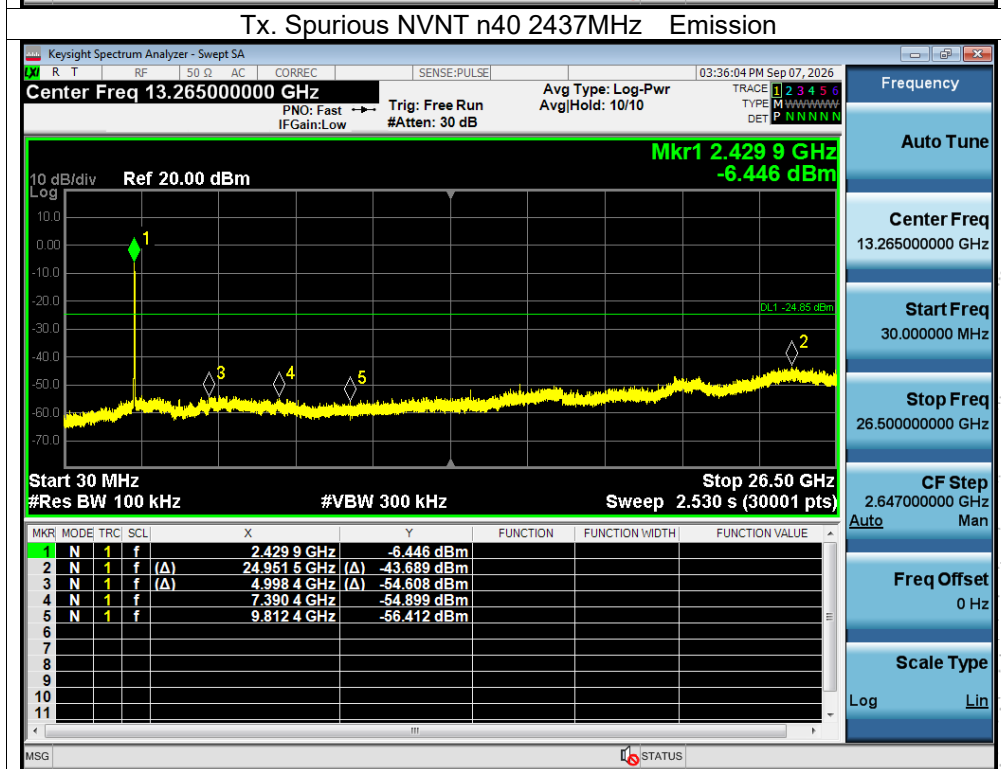
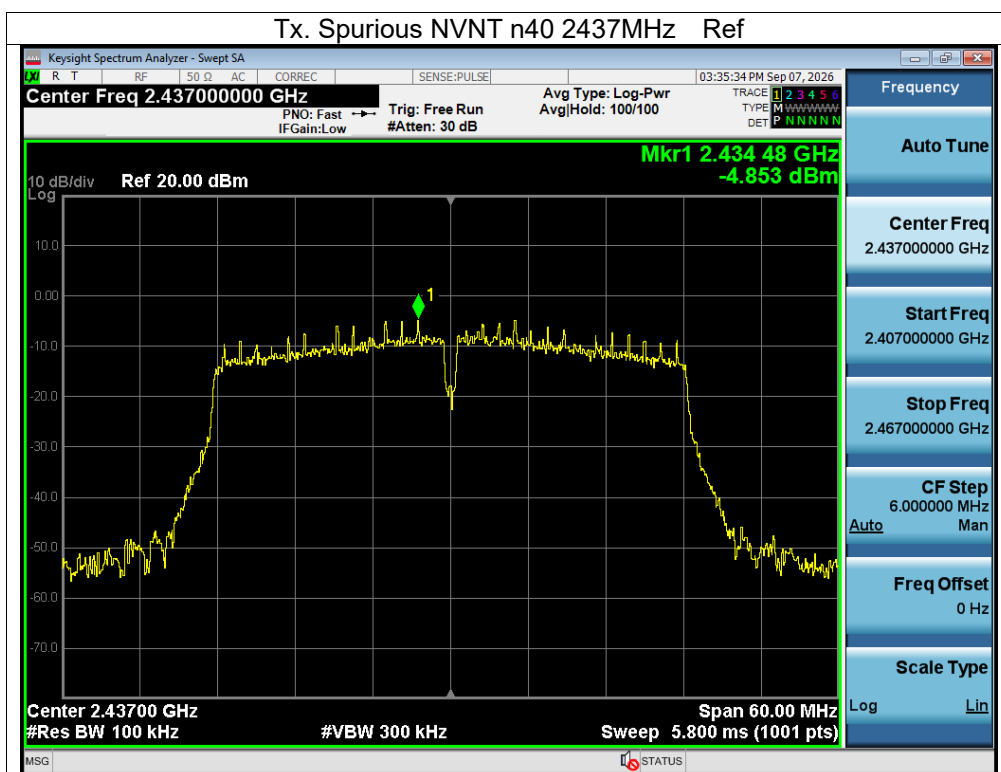


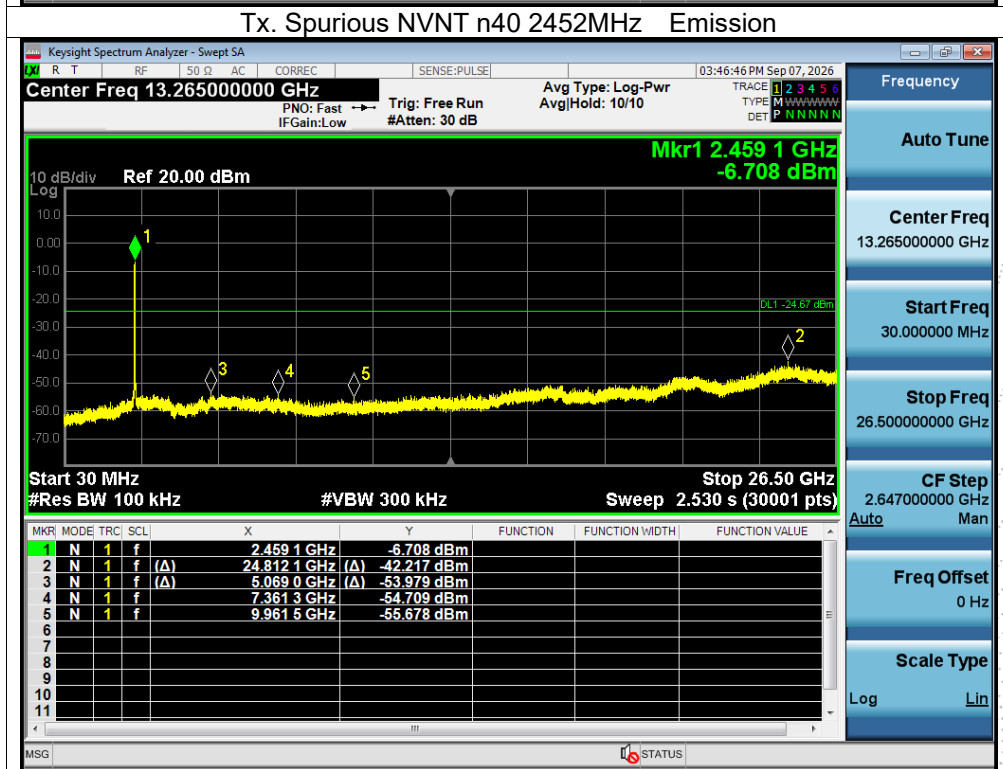
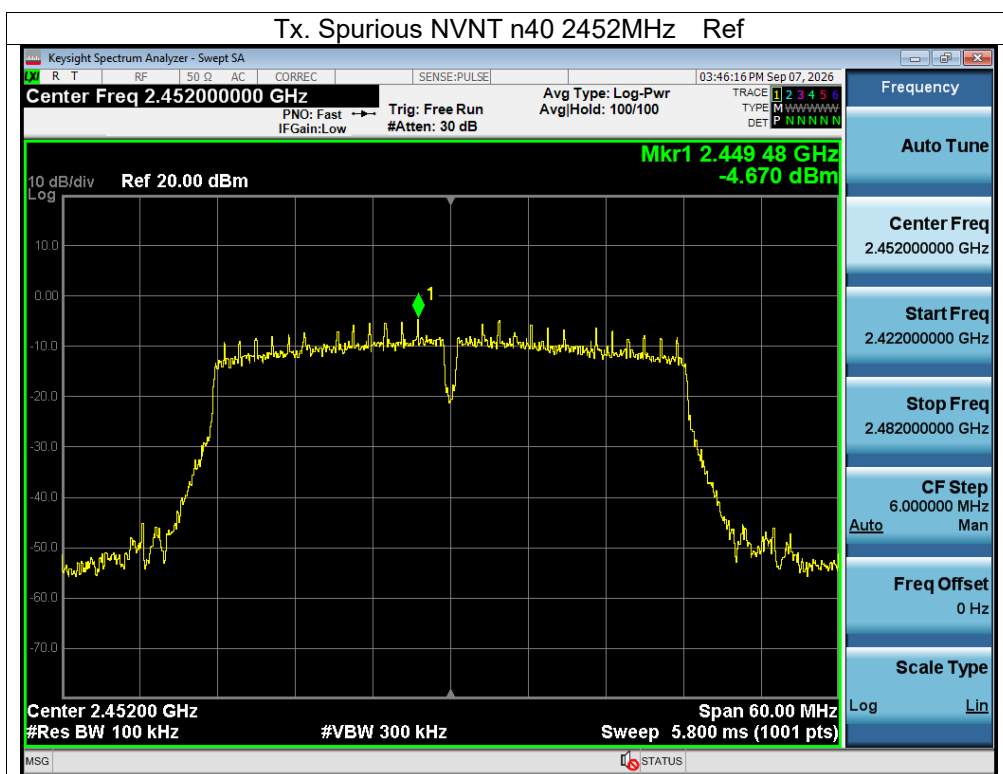












13. Duty Cycle Of Test Signal

13.1 Standard Requirement

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

13.2 Formula

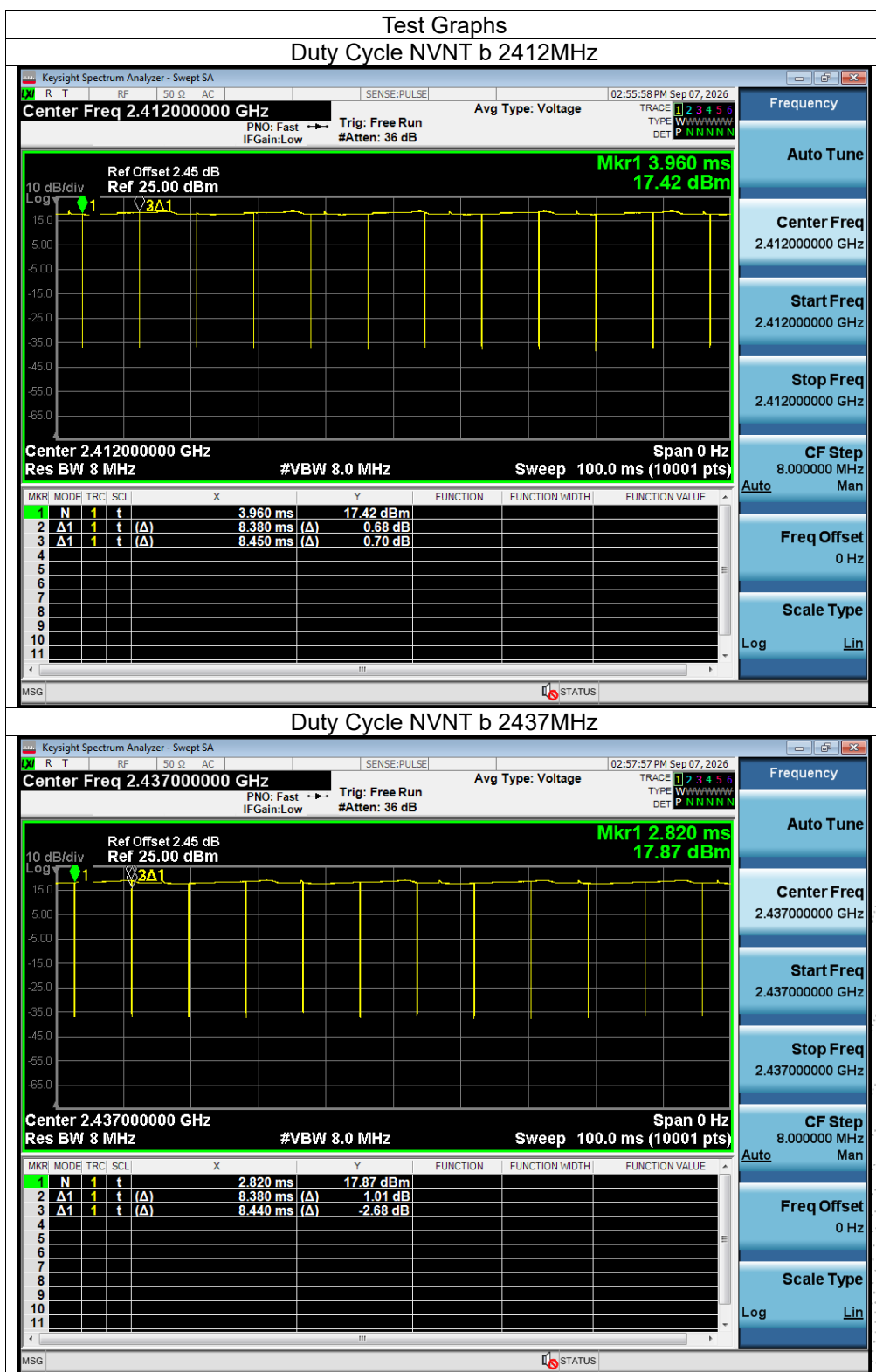
$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

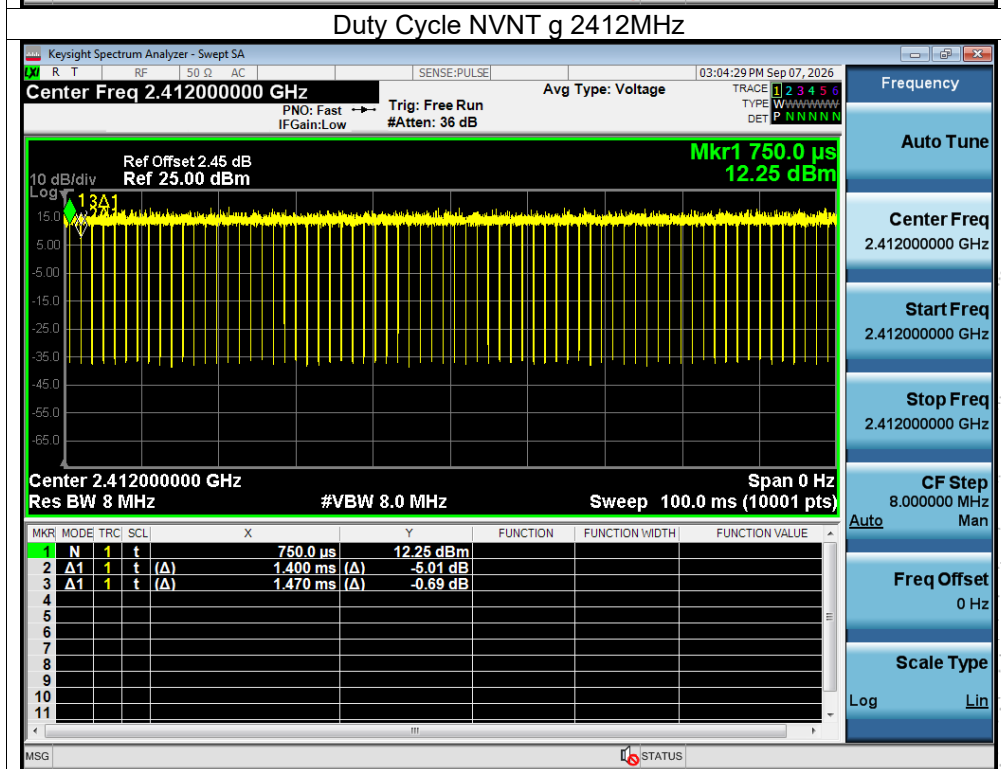
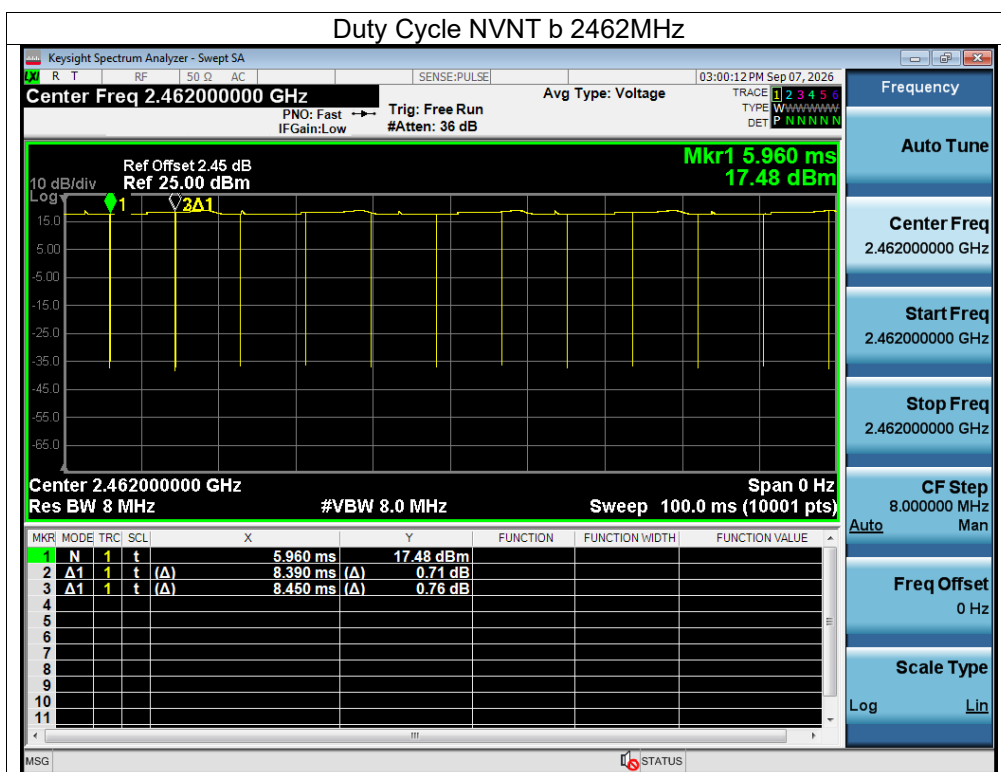
13.3 Test Procedure

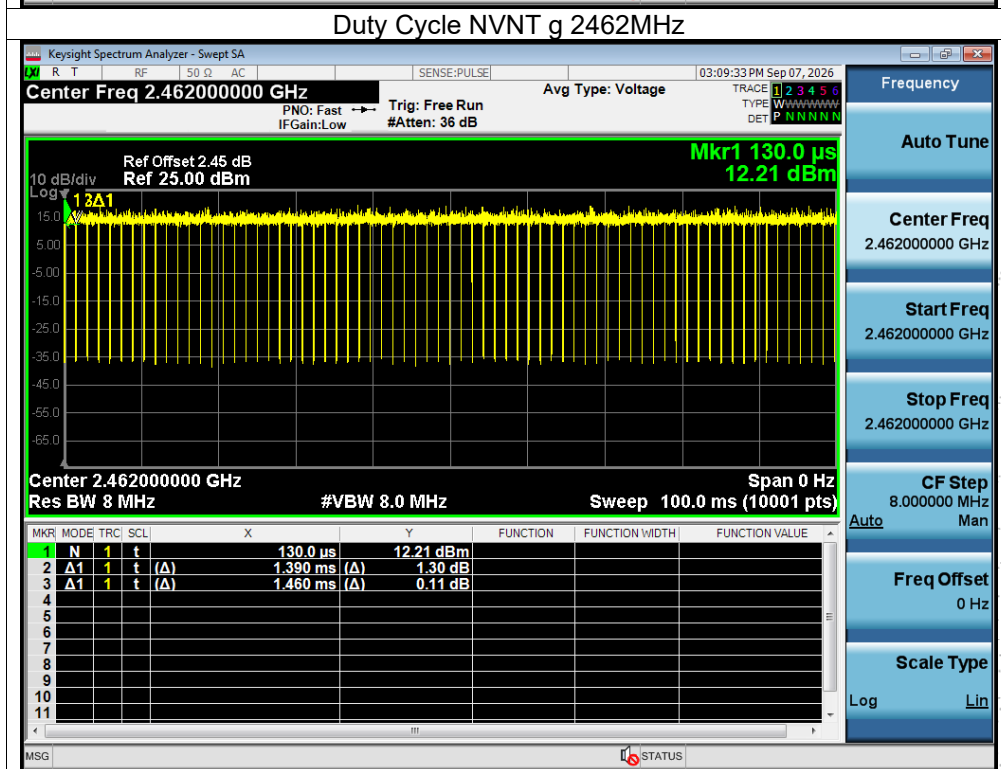
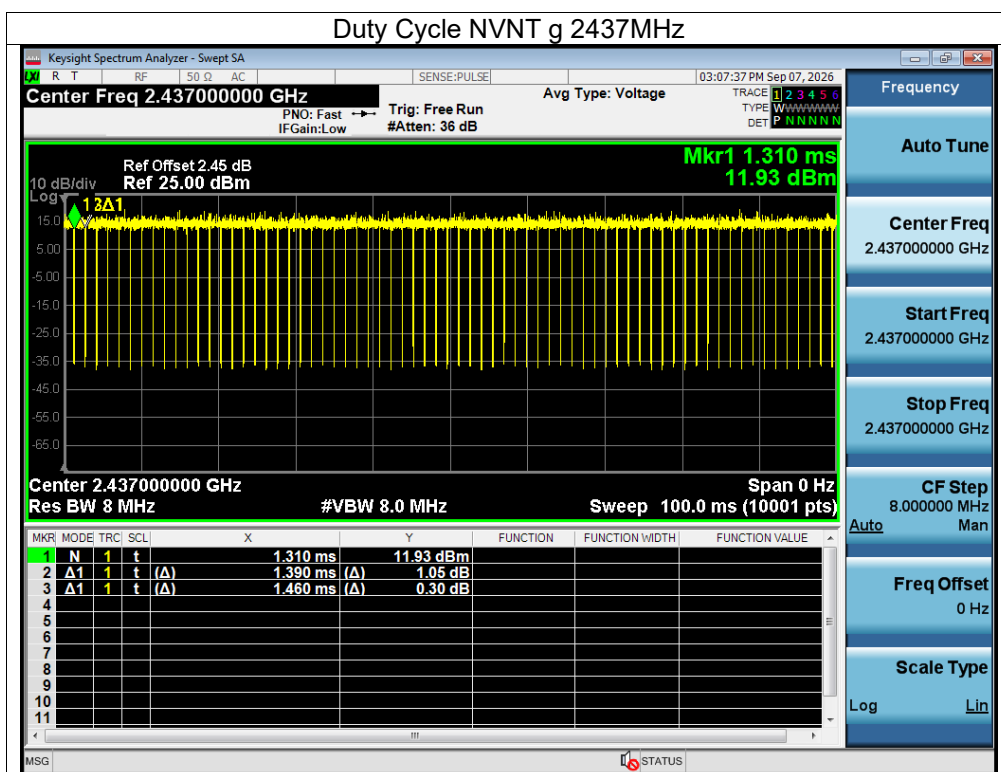
1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

13.4 Test Result

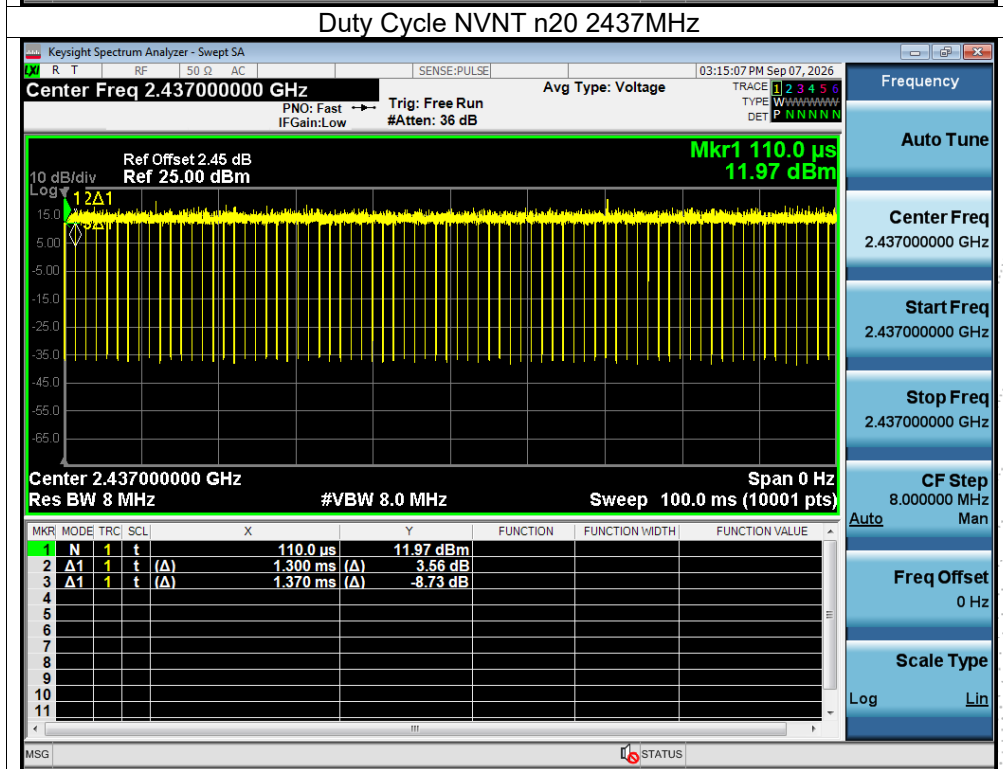
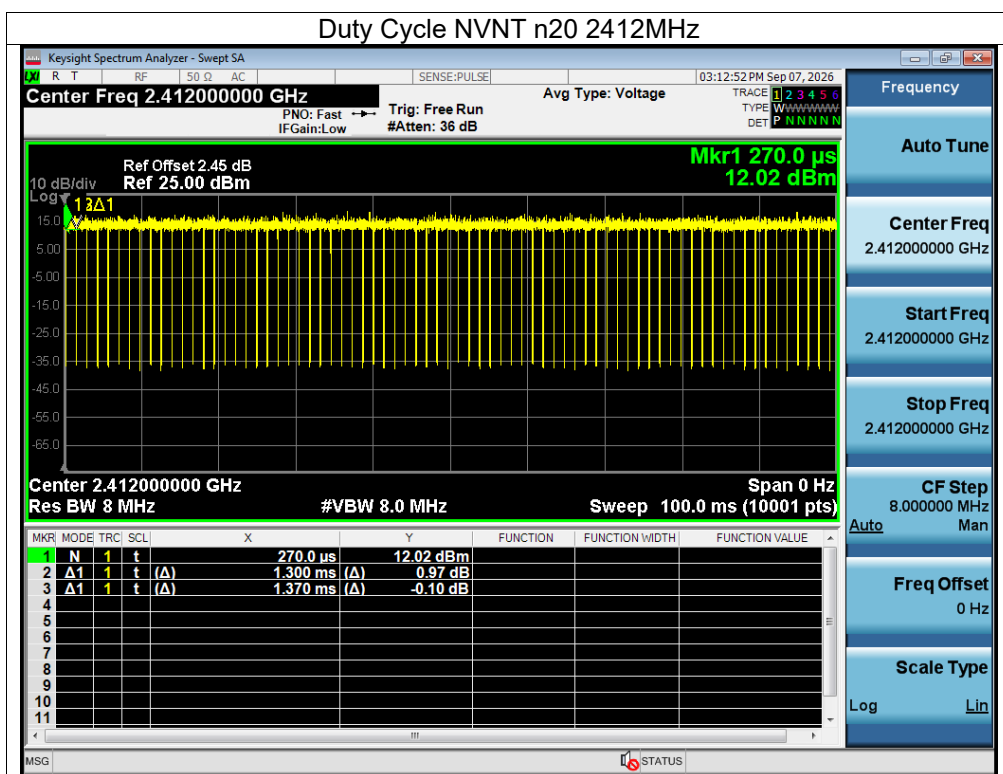
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	A	99.17	0.04	0.12
NVNT	b	2437	A	99.29	0.03	0.12
NVNT	b	2462	A	99.29	0.03	0.12
NVNT	g	2412	A	95.24	0.21	0.71
NVNT	g	2437	A	95.21	0.21	0.72
NVNT	g	2462	A	95.21	0.21	0.72
NVNT	n20	2412	A	94.89	0.23	0.77
NVNT	n20	2437	A	94.89	0.23	0.77
NVNT	n20	2462	A	94.89	0.23	0.77
NVNT	n40	2422	A	90.28	0.44	1.54
NVNT	n40	2437	A	90.28	0.44	1.54
NVNT	n40	2452	A	88.89	0.51	1.56

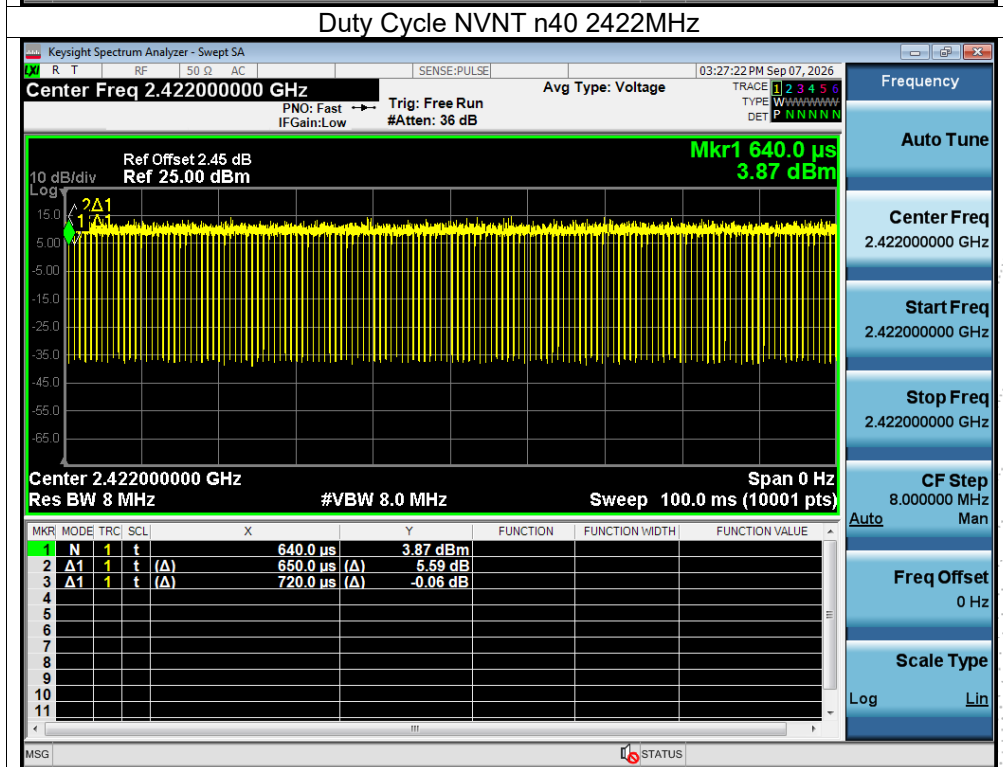
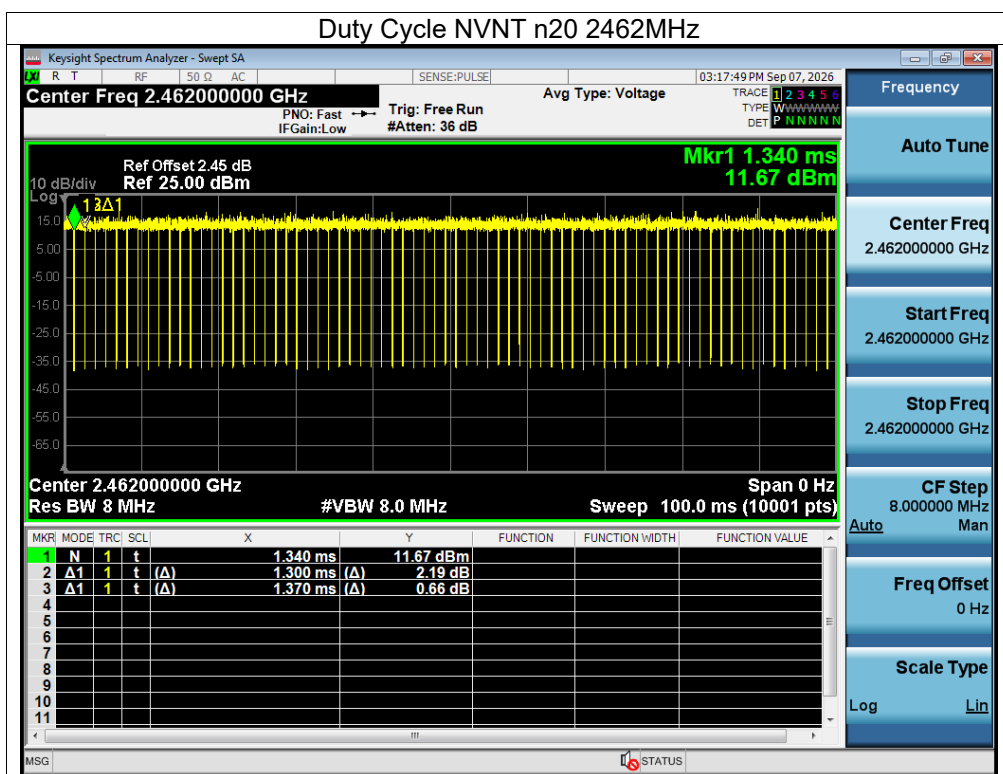


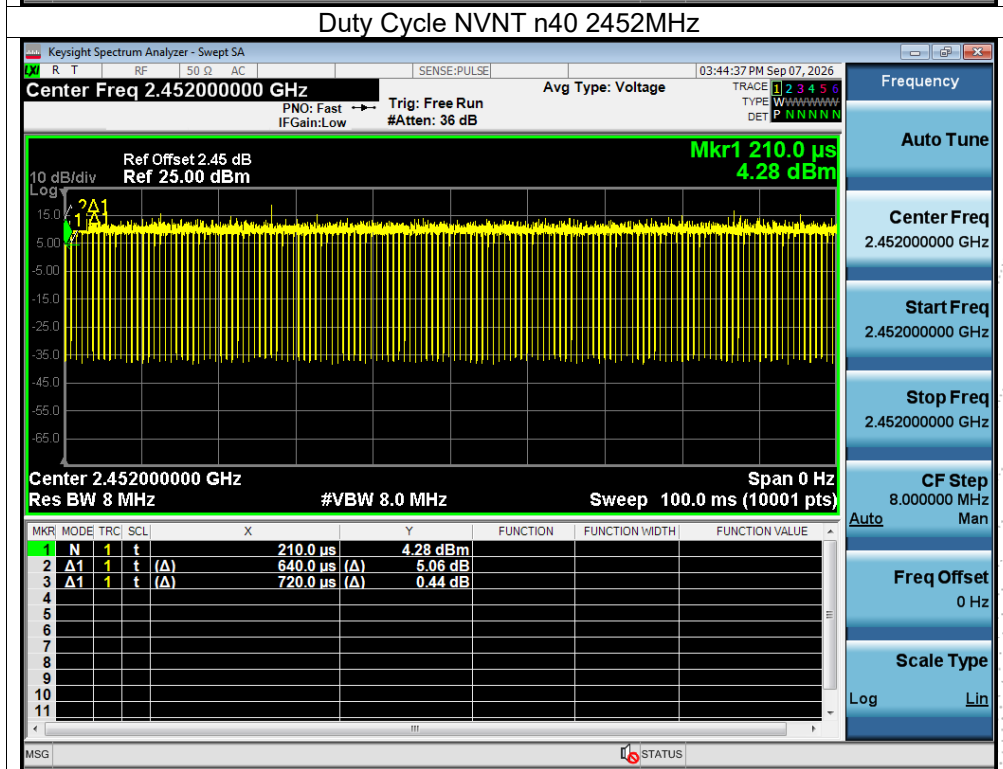
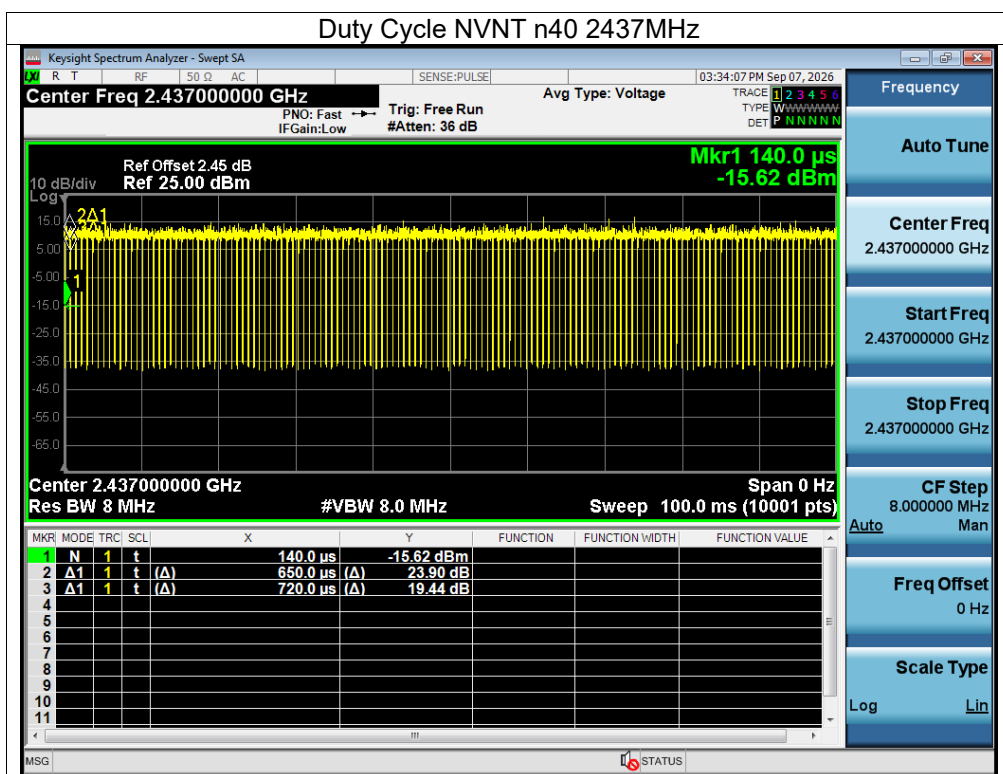




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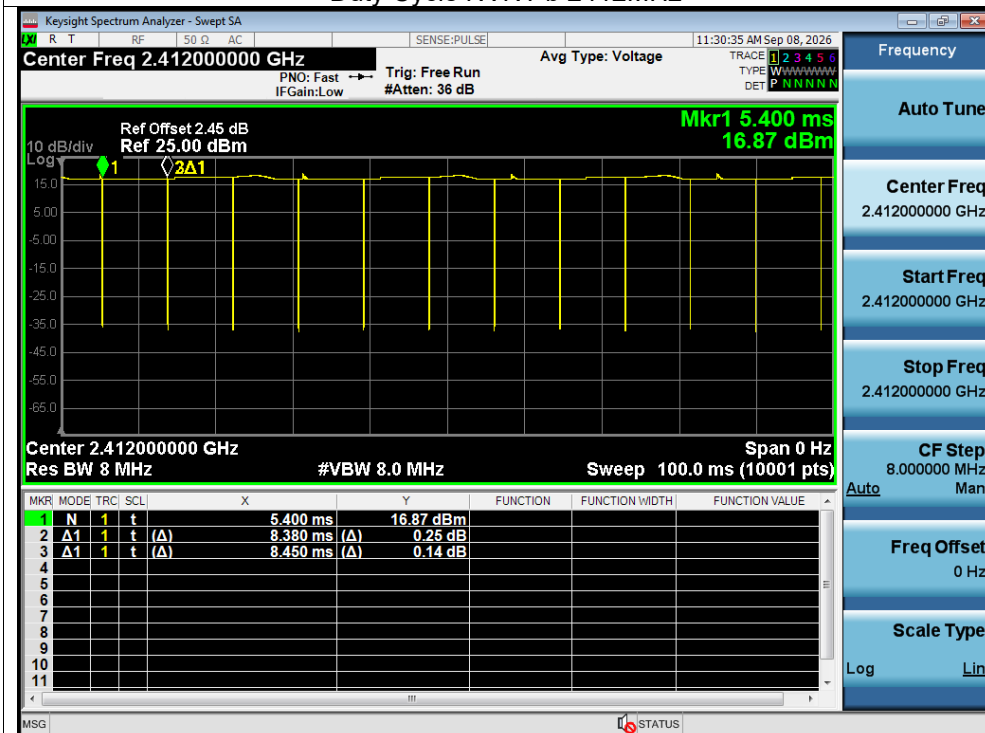




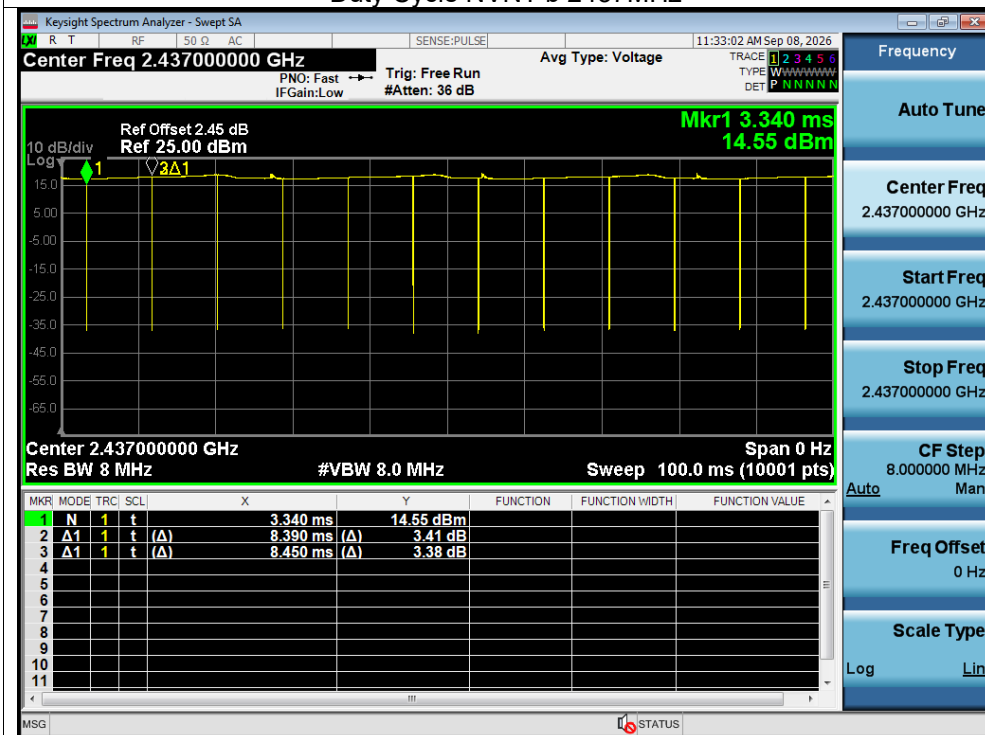
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	B	99.17	0.04	0.12
NVNT	b	2437	B	99.29	0.03	0.12
NVNT	b	2462	B	99.29	0.03	0.12
NVNT	g	2412	B	95.21	0.21	0.72
NVNT	g	2437	B	95.24	0.21	0.71
NVNT	g	2462	B	95.21	0.21	0.72
NVNT	n20	2412	B	94.89	0.23	0.77
NVNT	n20	2437	B	94.89	0.23	0.77
NVNT	n20	2462	B	94.93	0.23	0.76
NVNT	n40	2422	B	90.28	0.44	1.54
NVNT	n40	2437	B	91.55	0.38	1.54
NVNT	n40	2452	B	90.28	0.44	1.54

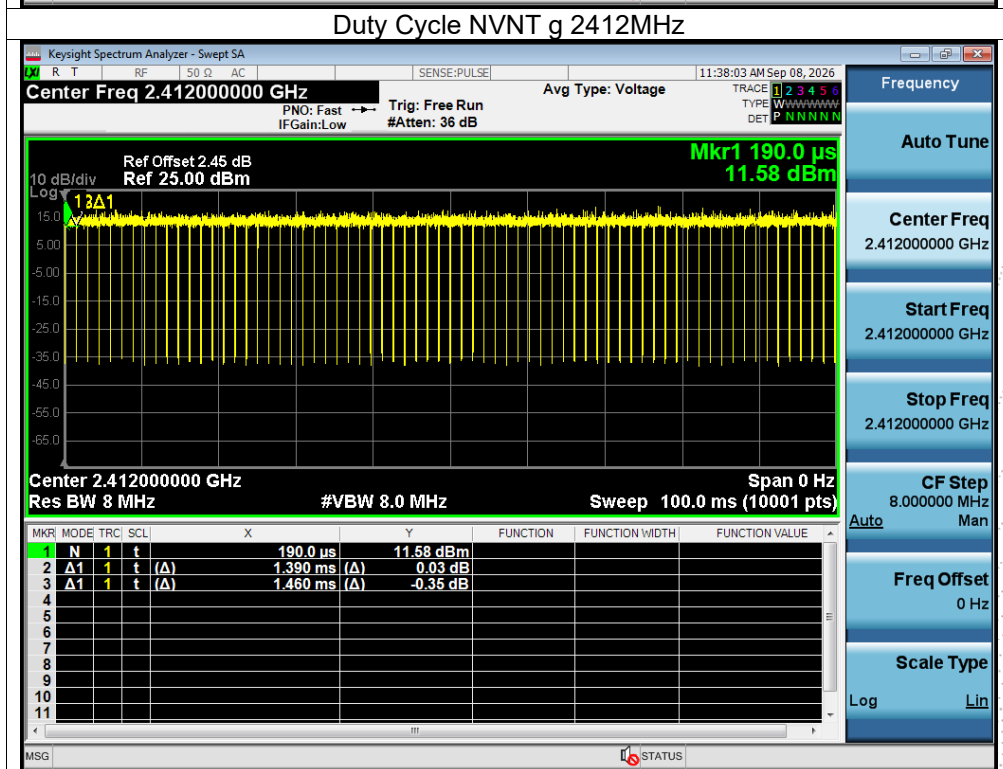
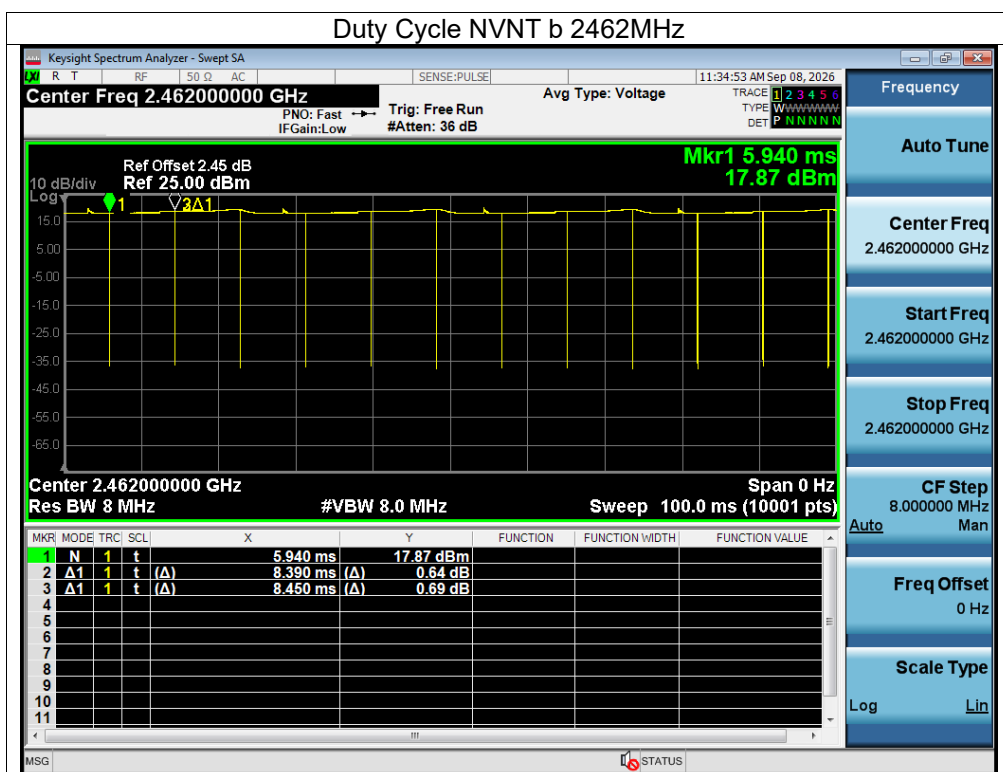
Test Graphs

Duty Cycle NVNT b 2412MHz

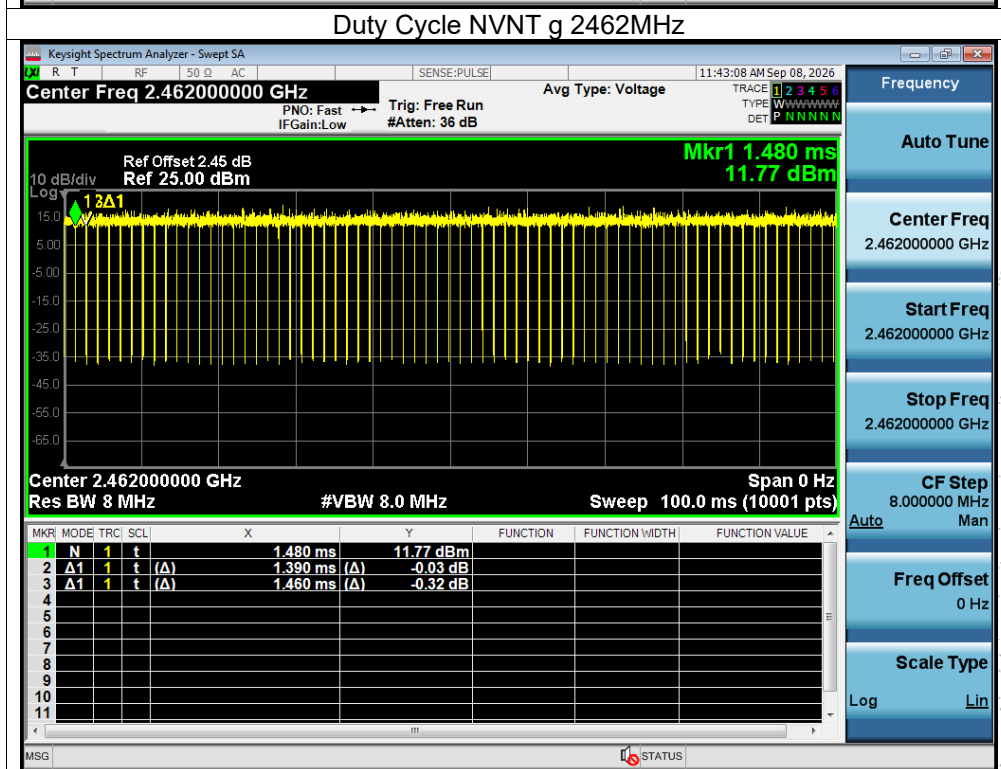
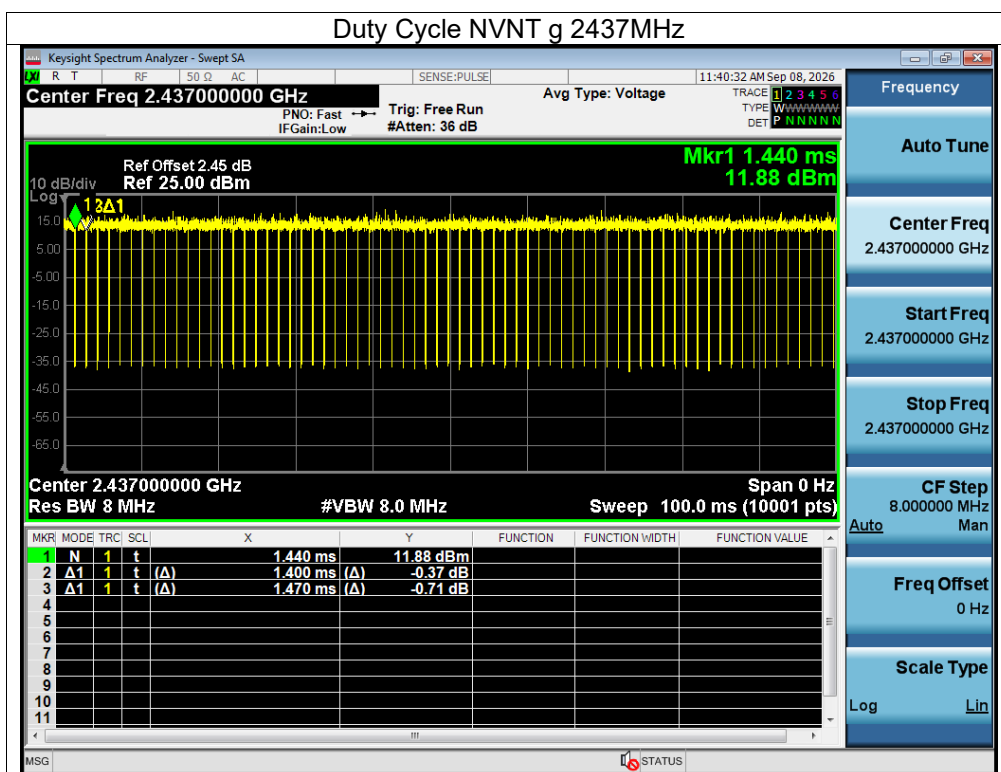


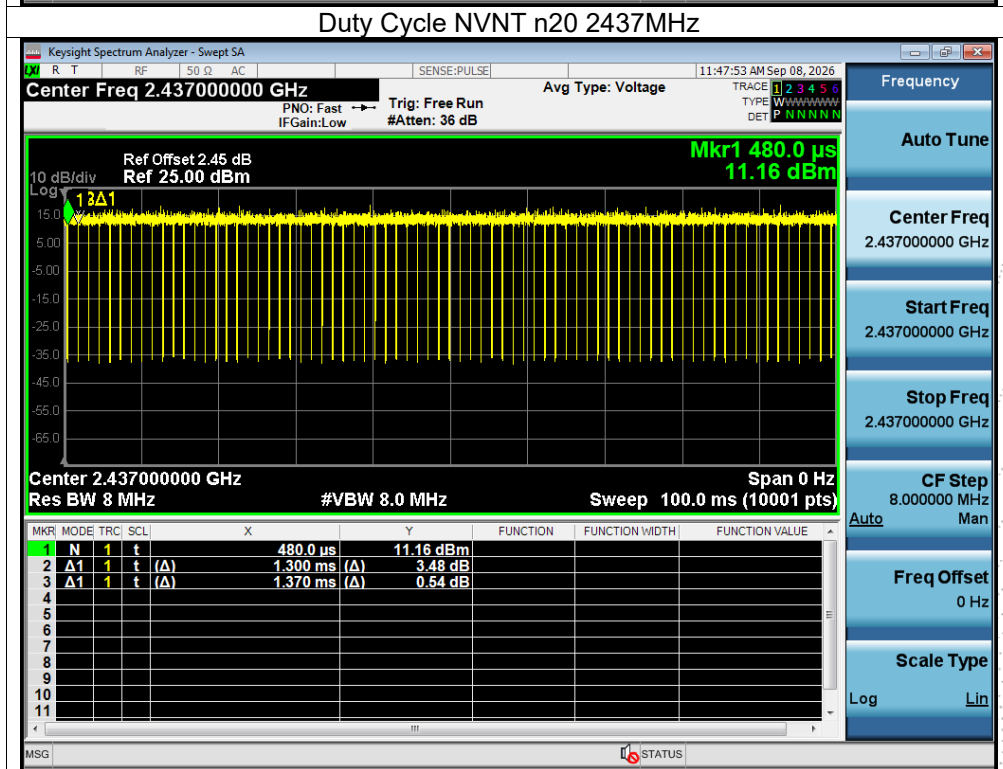
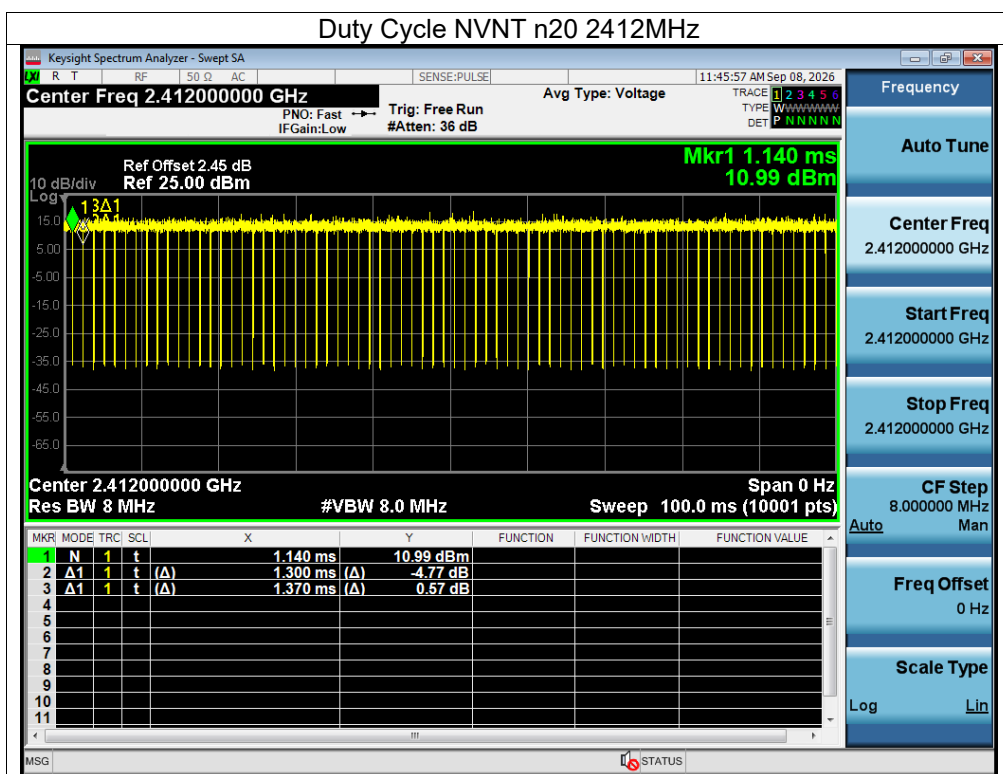
Duty Cycle NVNT b 2437MHz

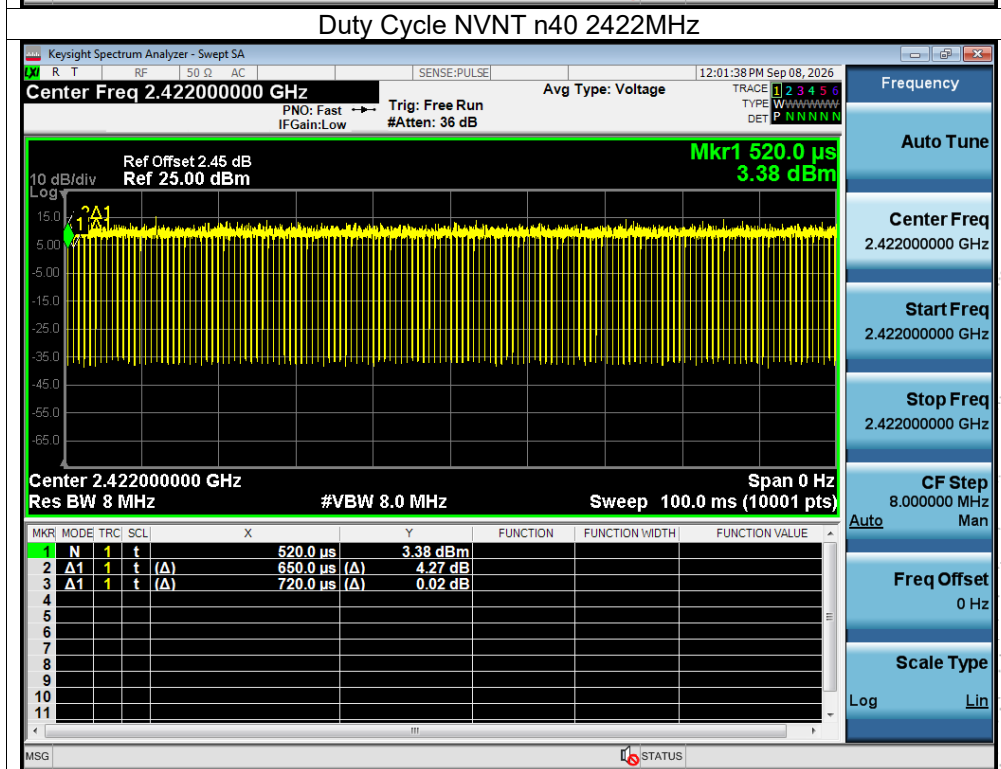
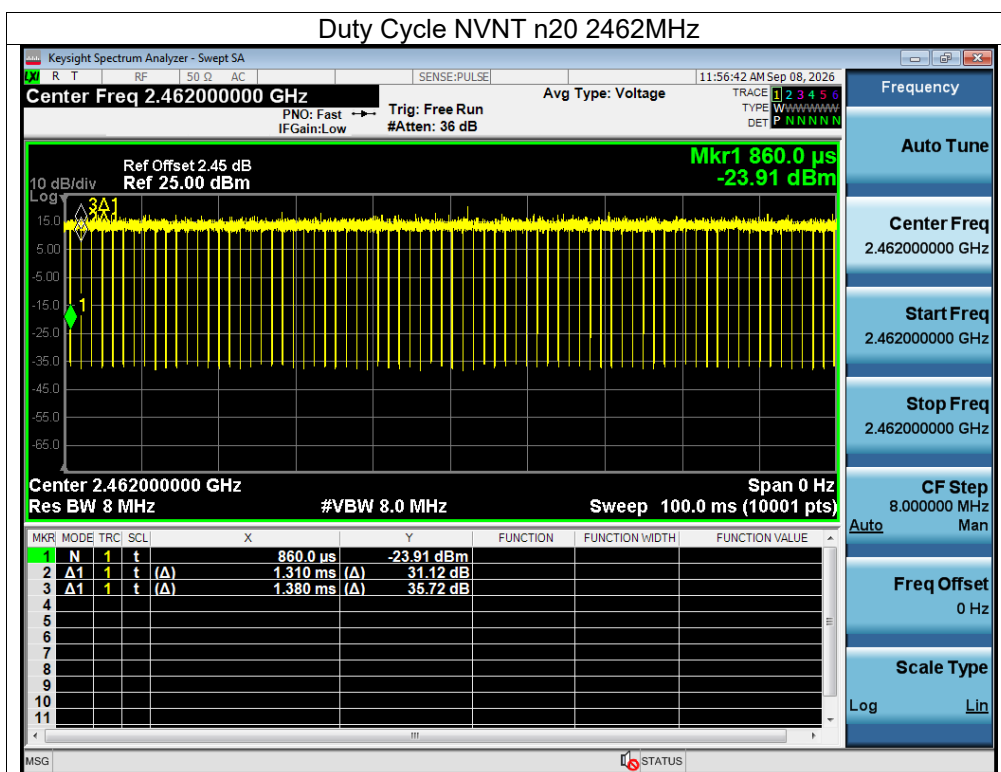


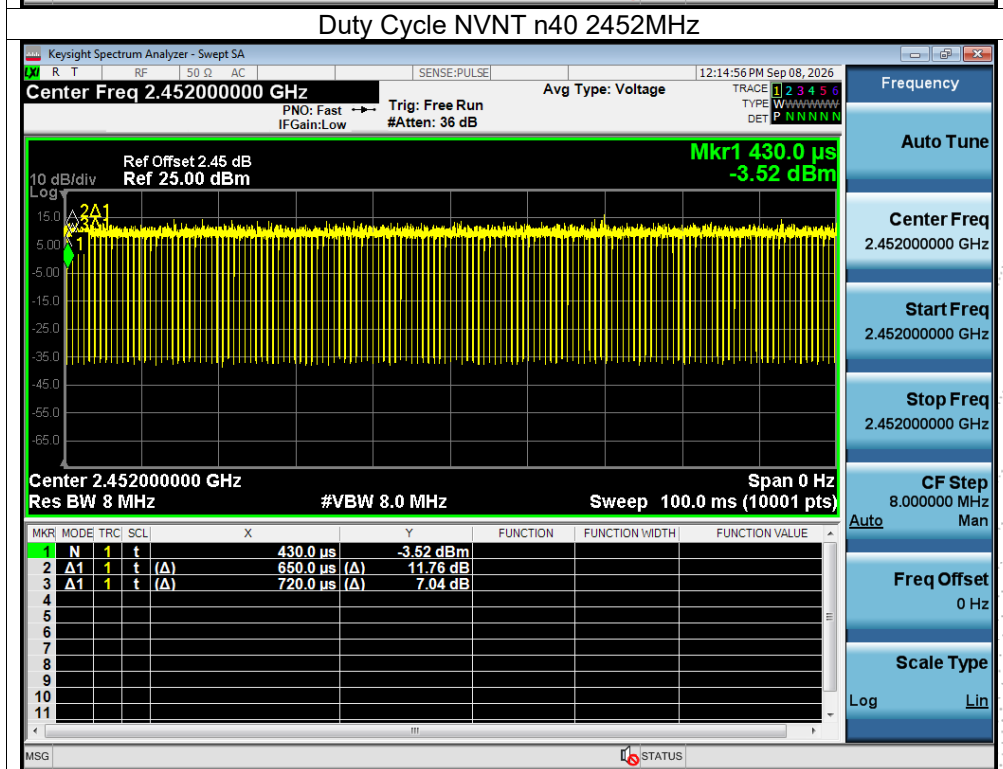
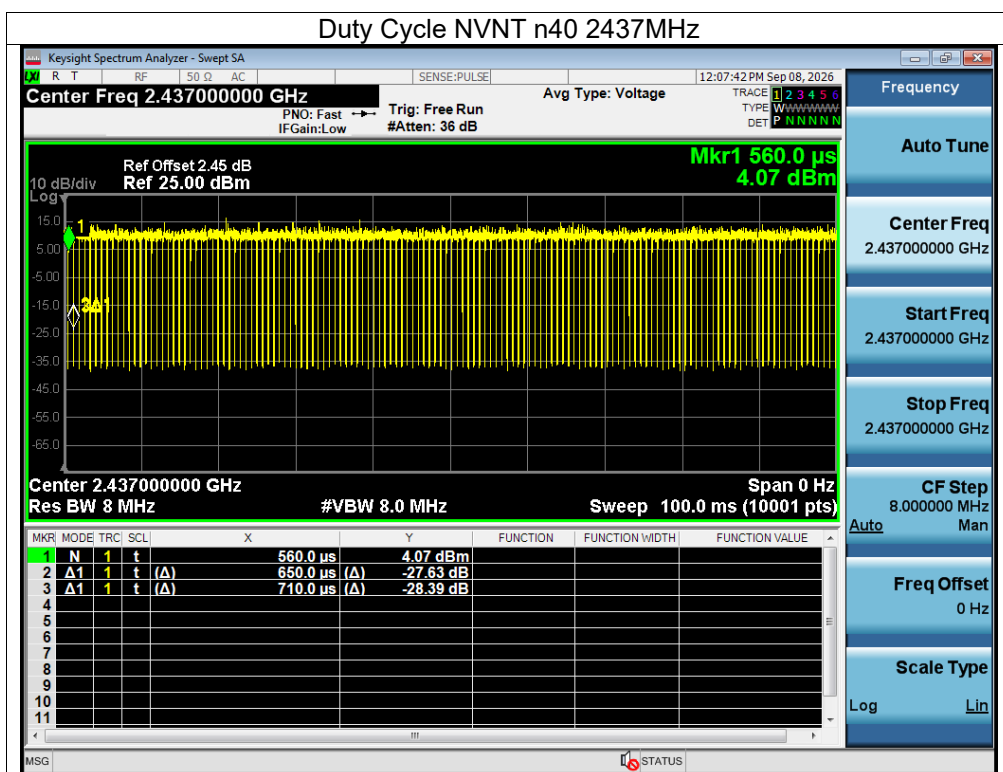


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14. Antenna Requirement

14.1 Limit

15.203 requirements:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

14.1 Test Result

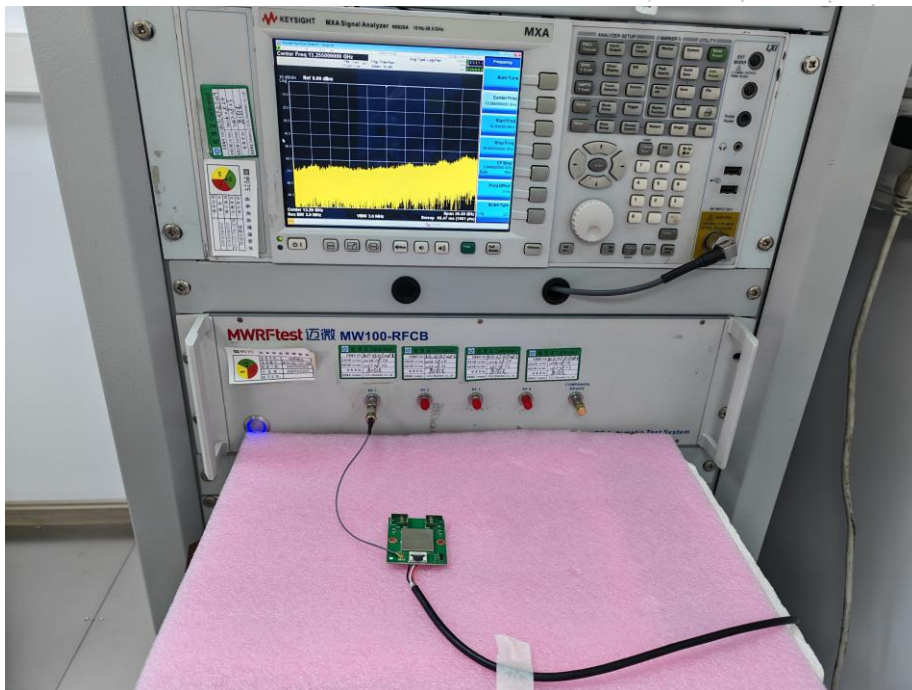
The EUT antenna is PCB antenna, fulfill the requirement of this section.

15. EUT Test Setup Photographs

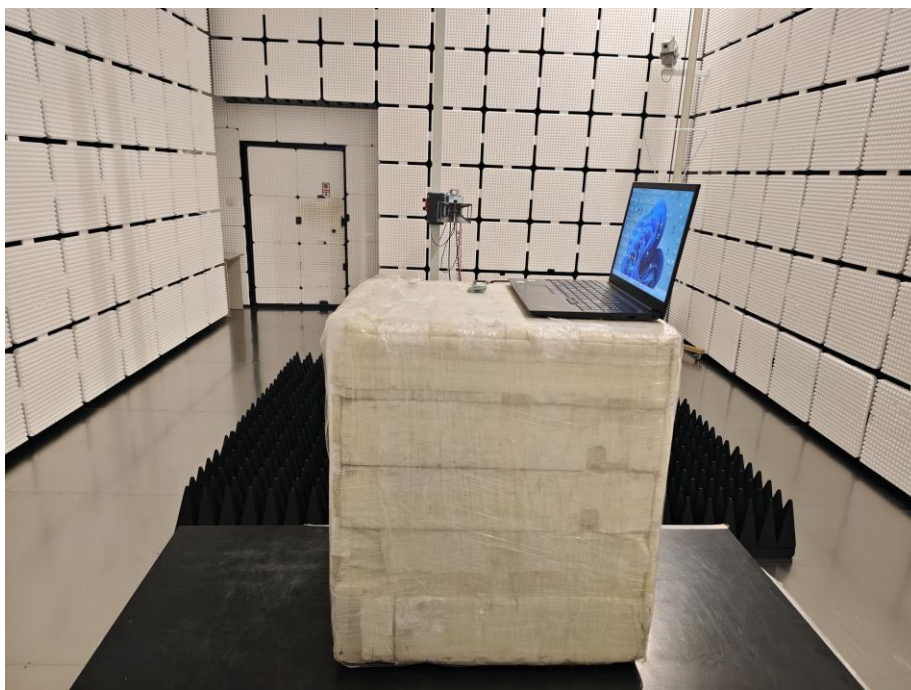
Conducted Emission Measurement Photos



RF conducted



Radiated Emission Measurement Photos



STATEMENT

1. The equipment lists are traceable to the International System of Units (SI)
2. The test report can not be partially copied unless prior written approval is issued from our lab.
3. The test report is invalid without the "special seal for inspection and testing".
4. The test report is invalid without the signature of the approver.
5. The test process and test result is only related to the Unit Under Test.
6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
7. The quality system of our laboratory is in accordance with ISO/IEC 17025:2017.
8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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Consultation E-mail: bctc@bctc-lab.com.cn

Complaint/Advice E-mail: advice@bctc-lab.com.cn

***** END *****