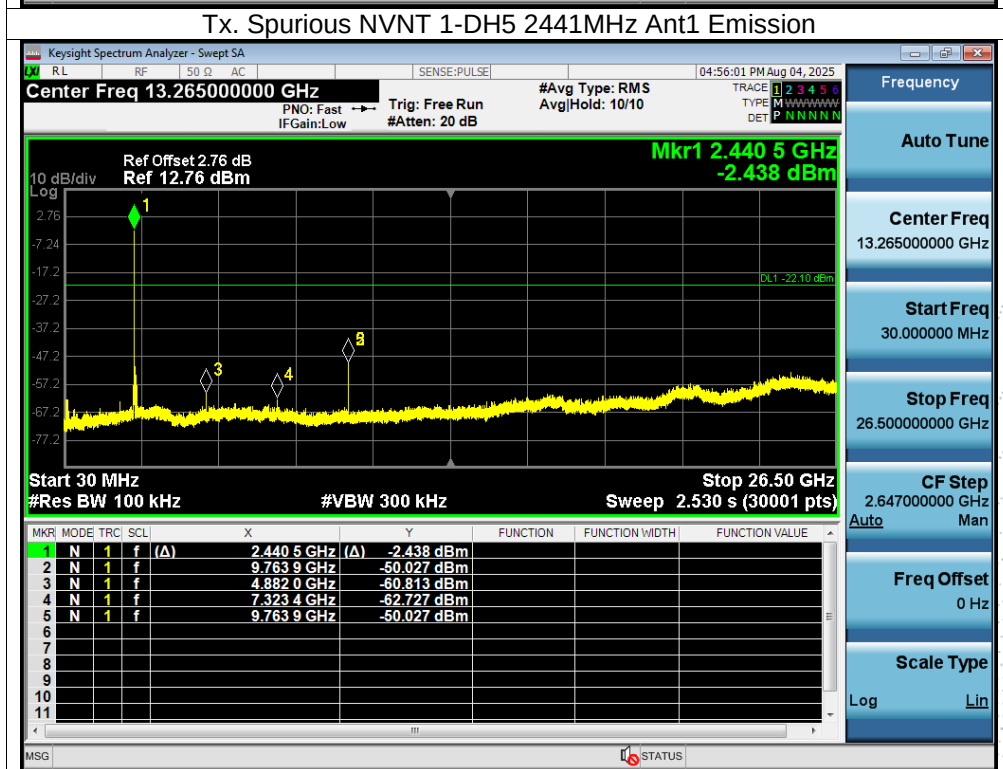
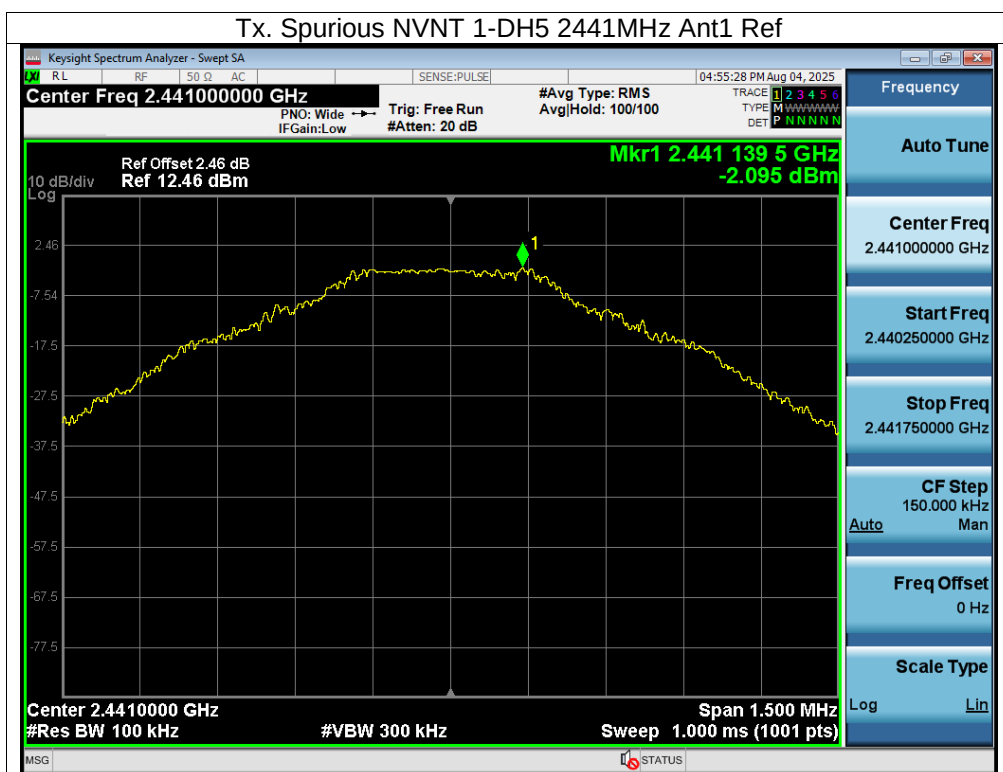
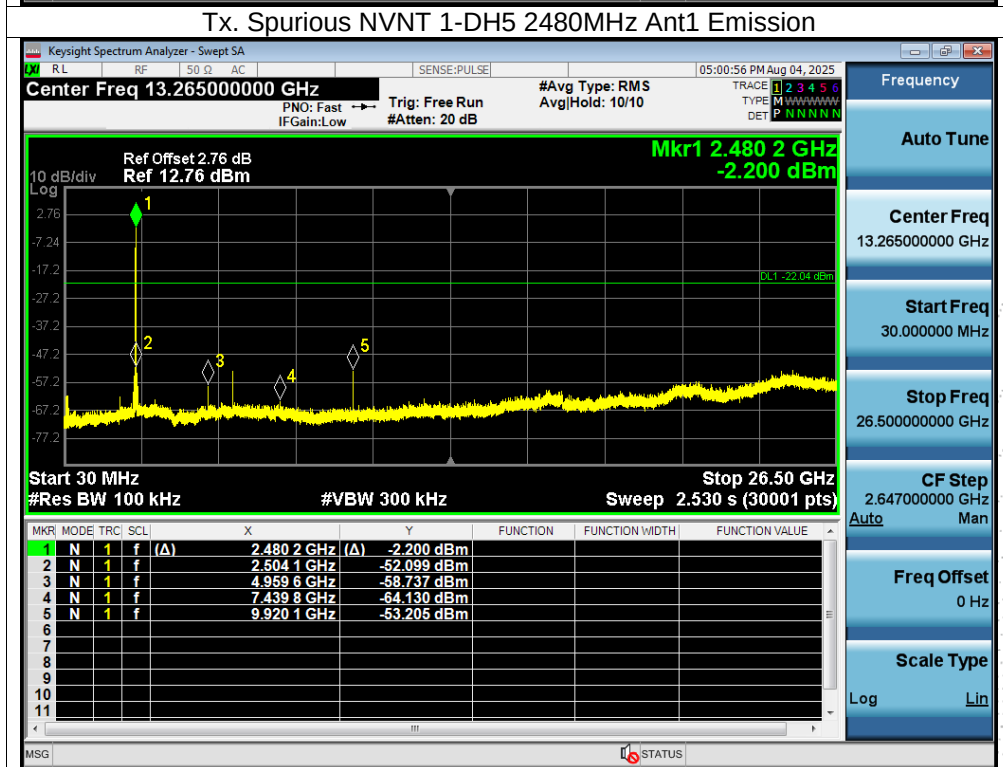
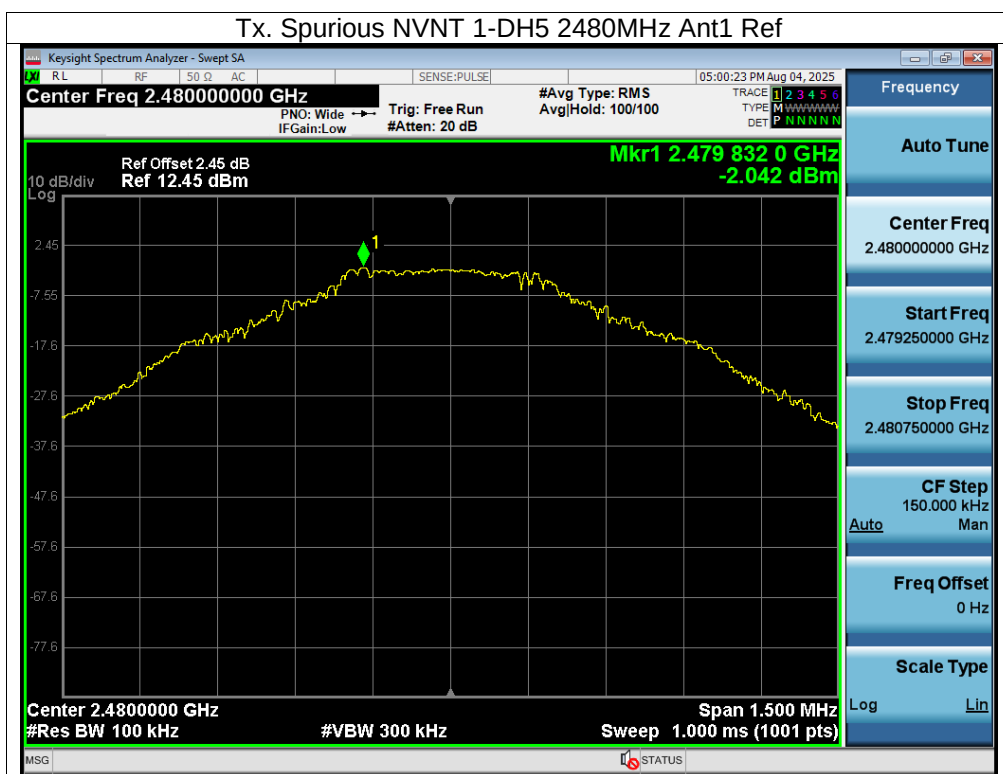
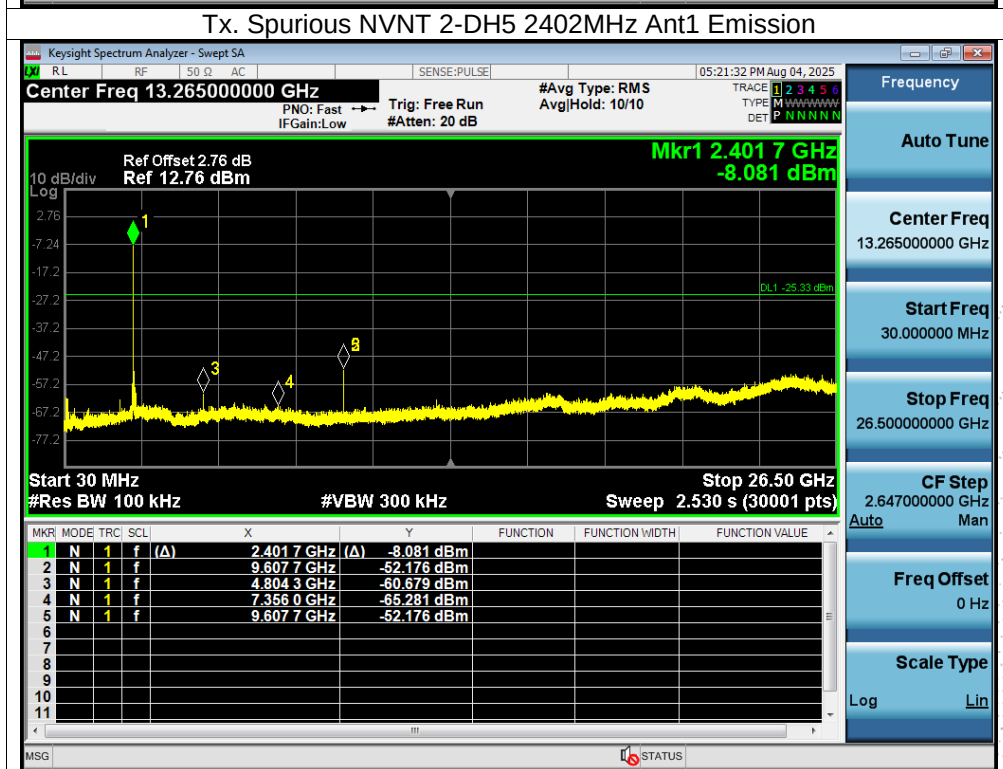
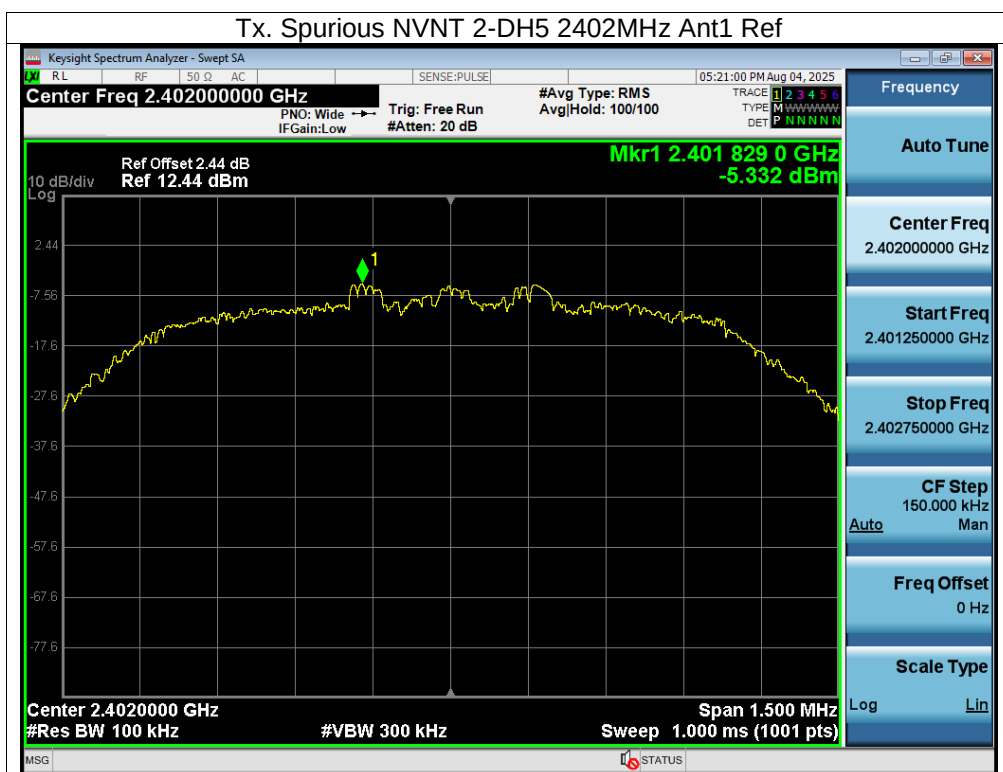
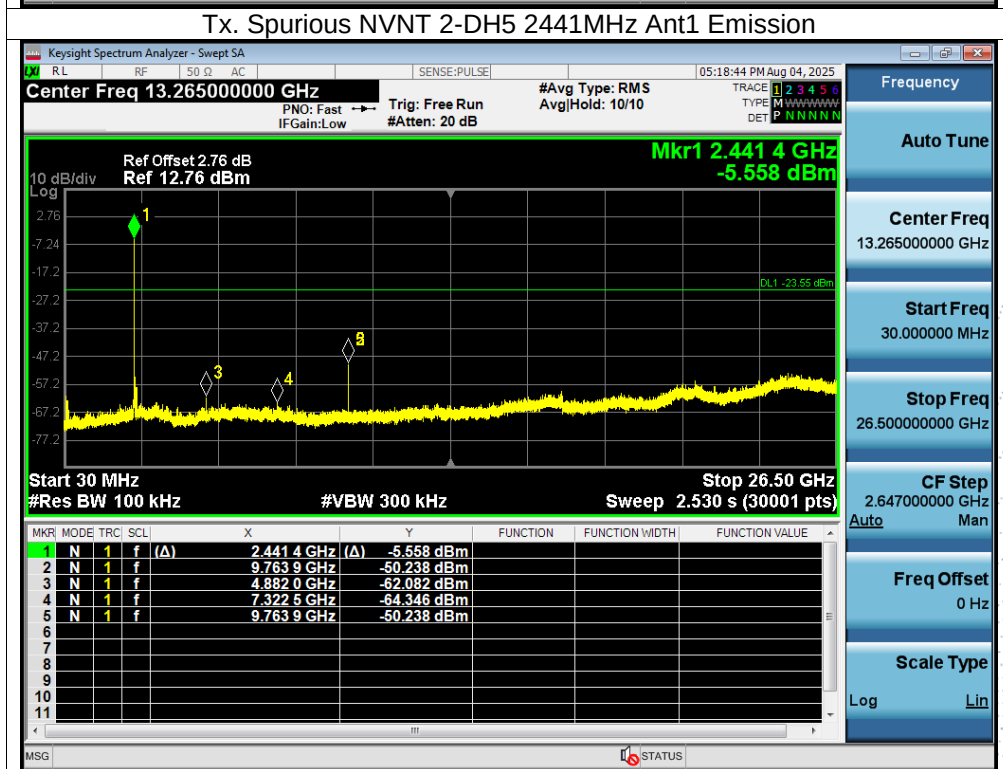
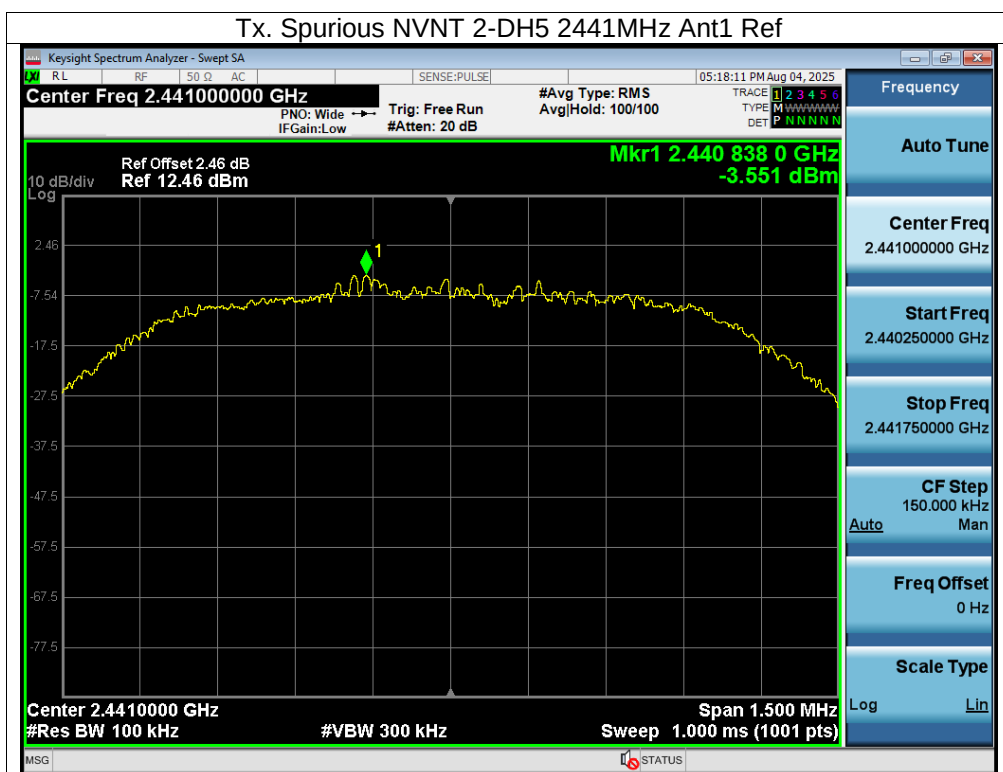
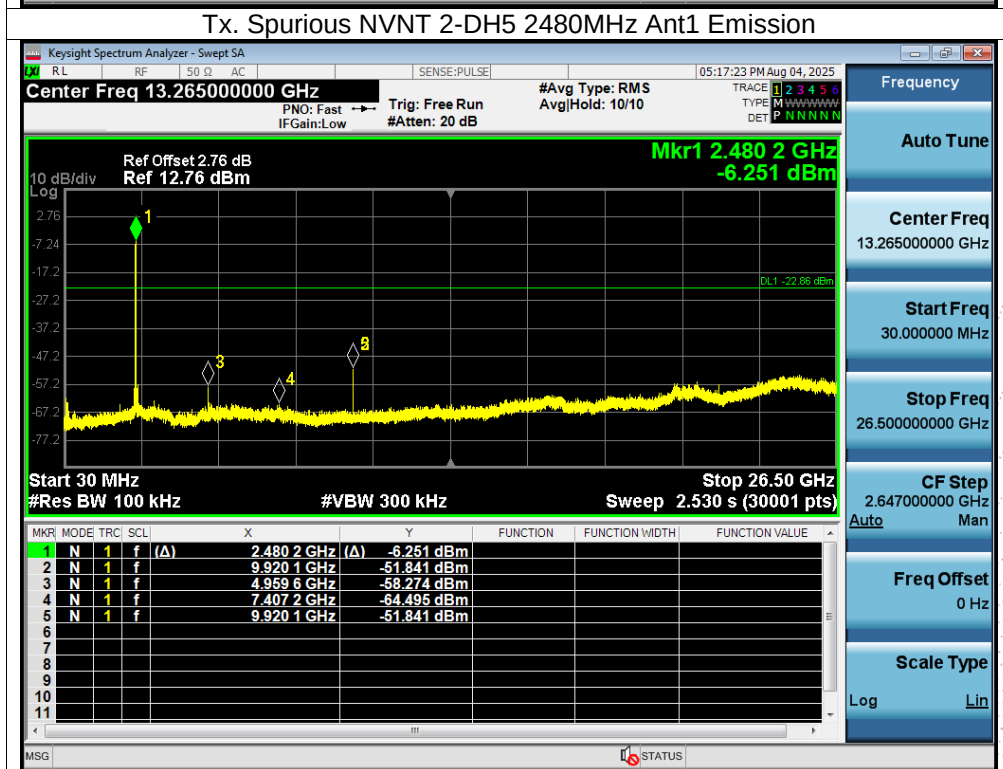
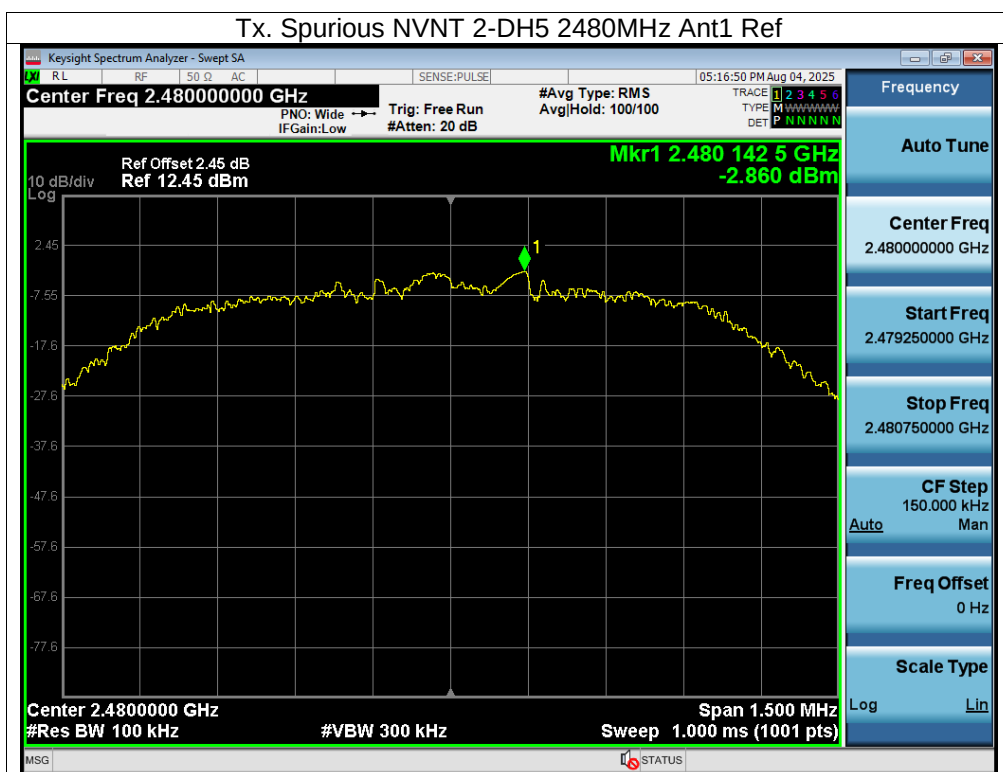


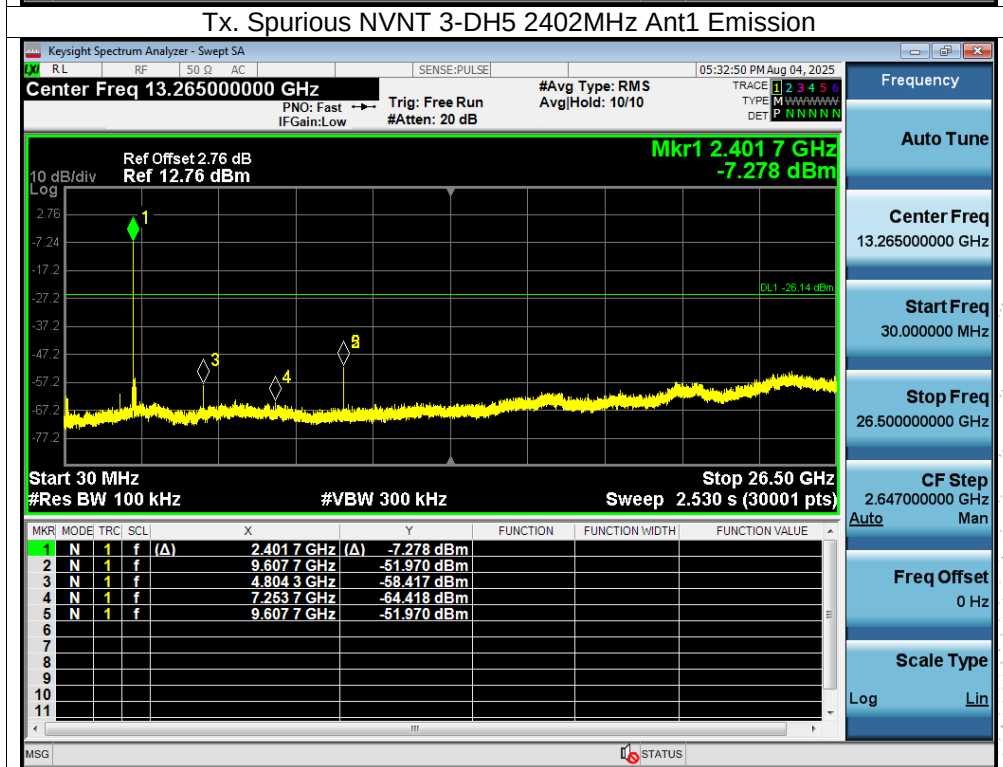
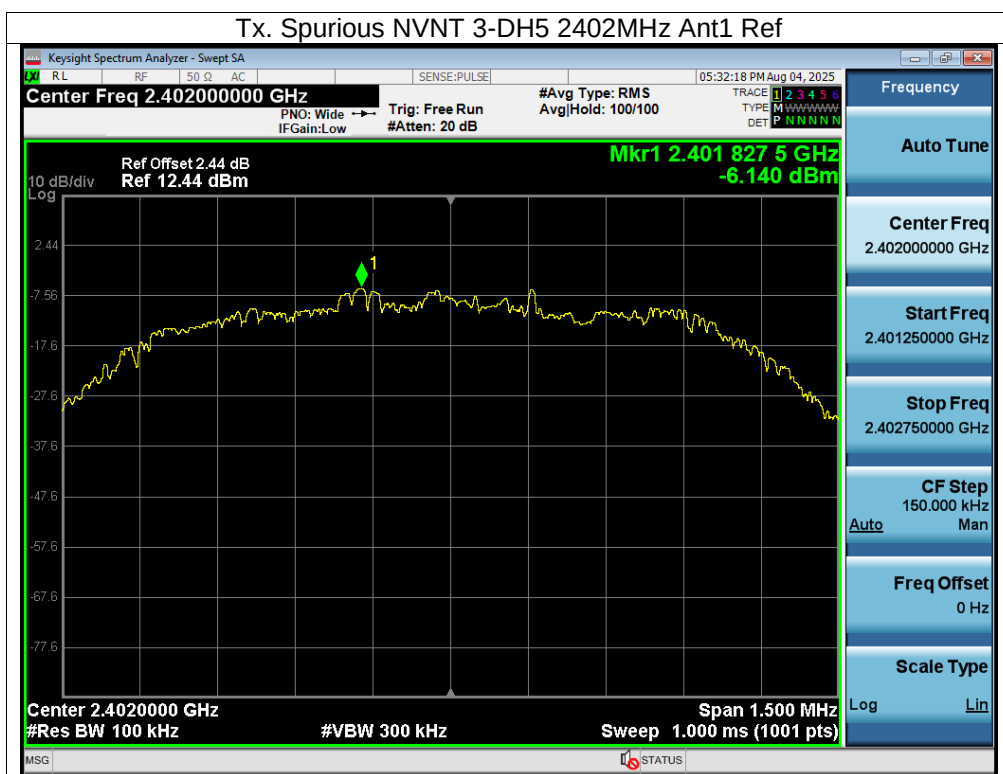


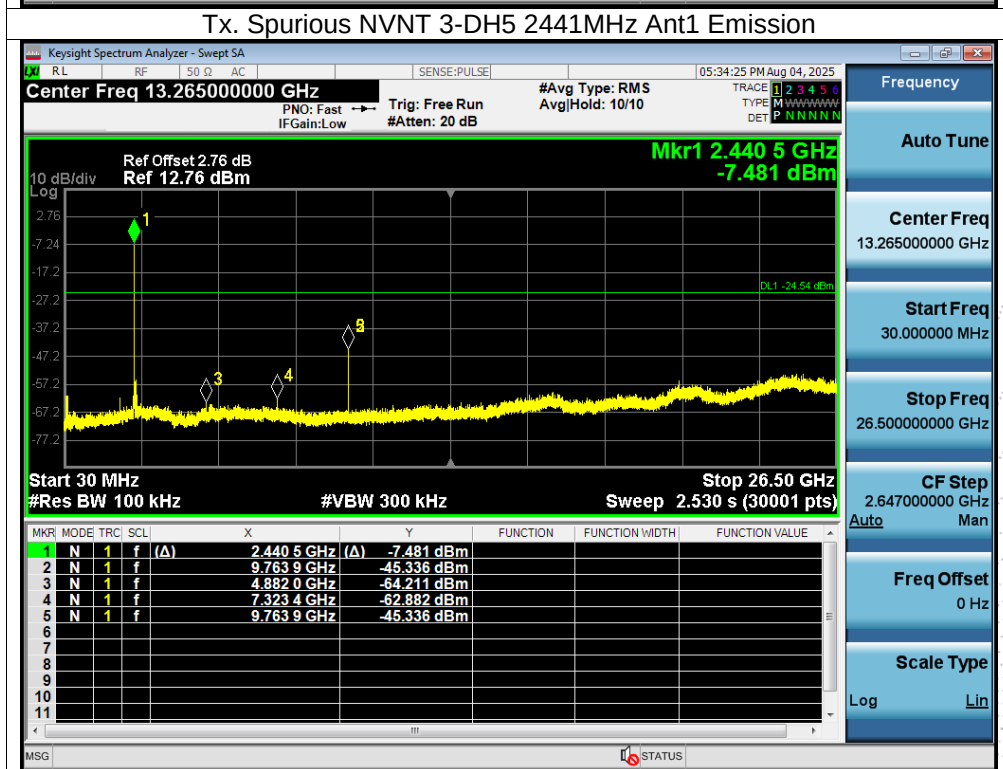
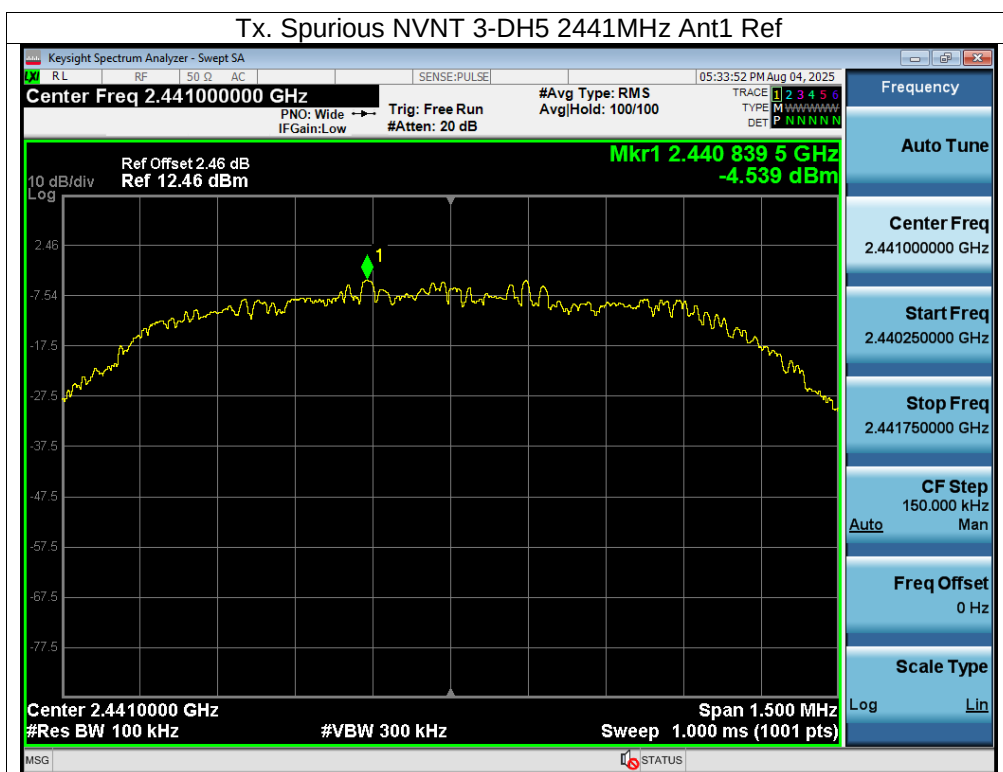


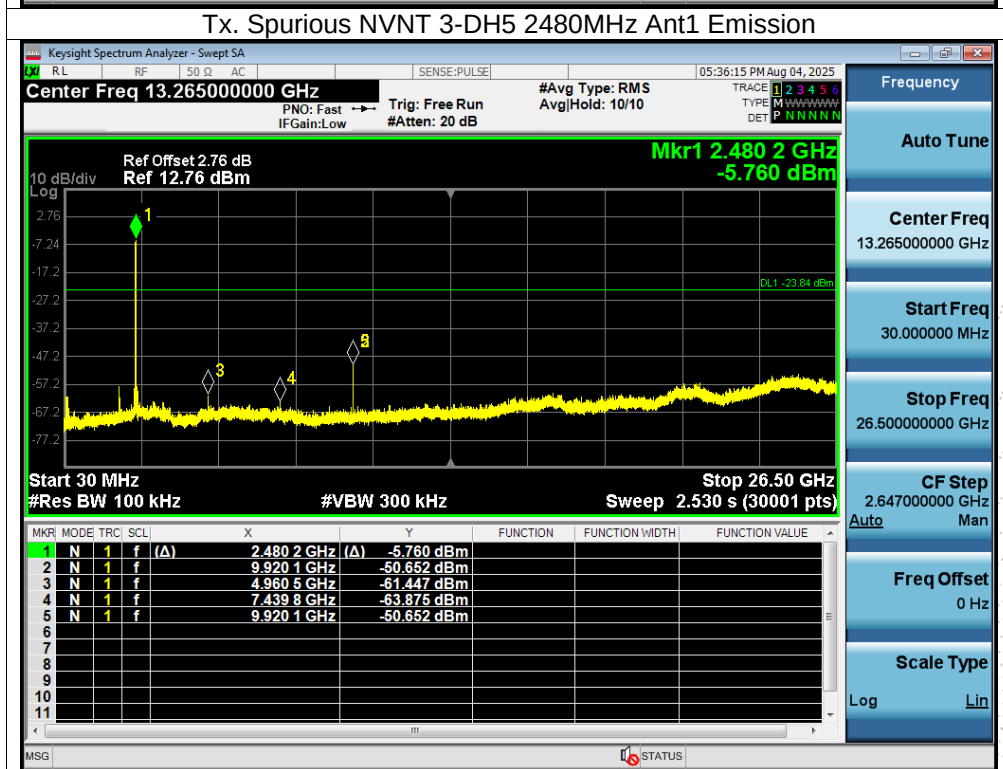


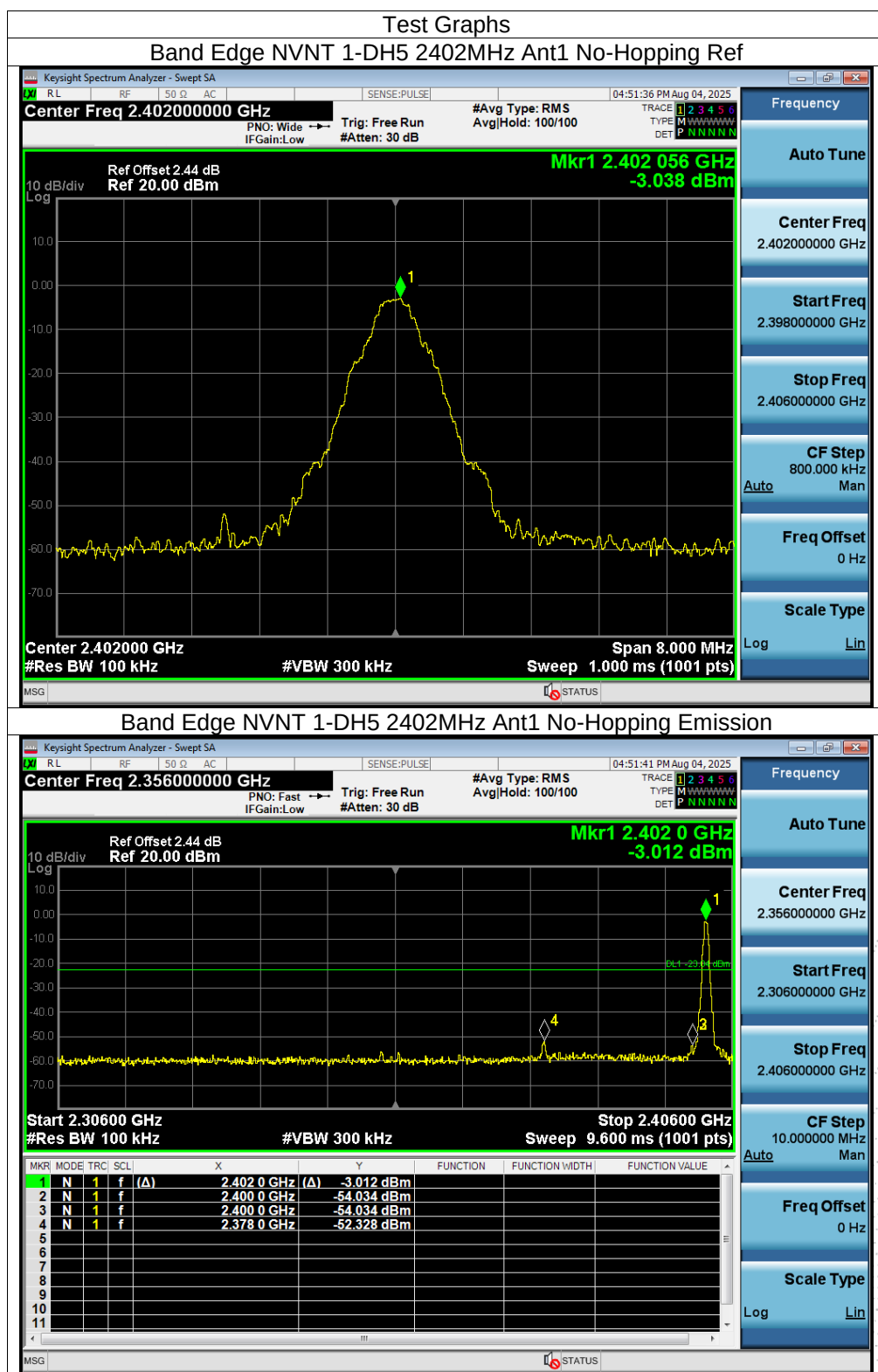


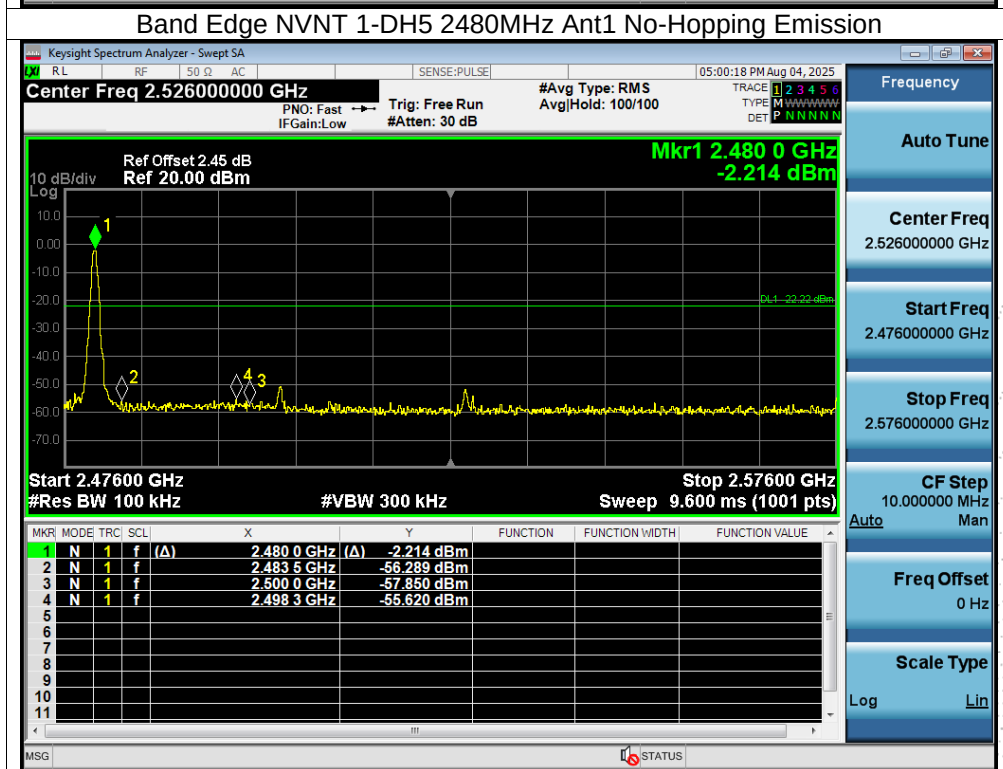
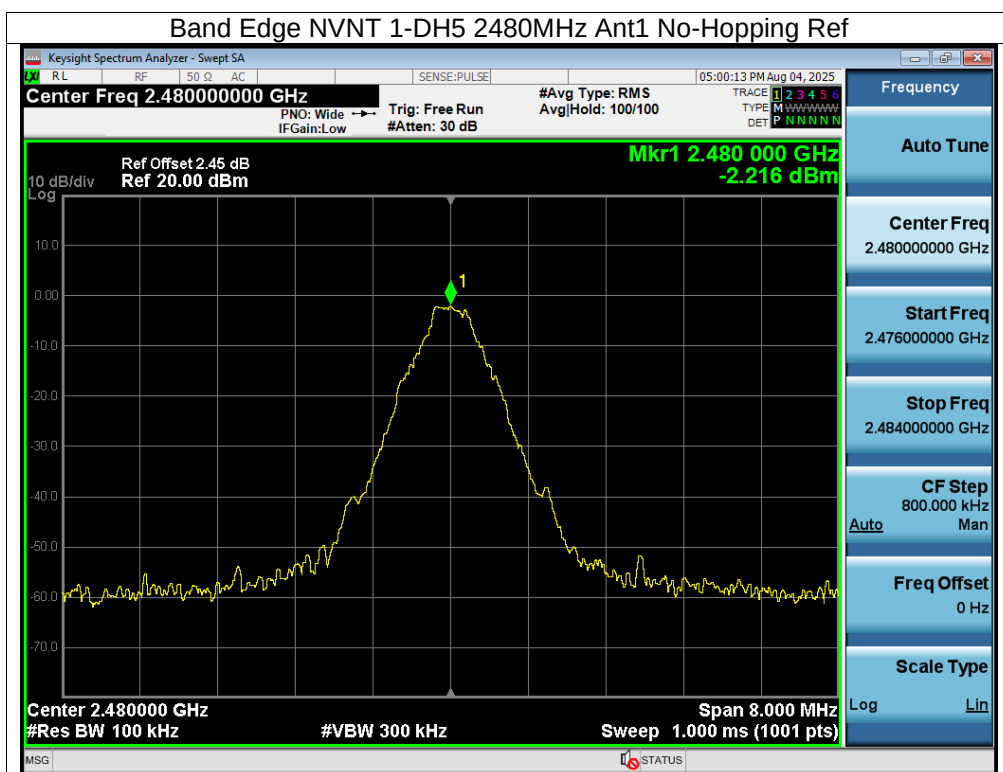


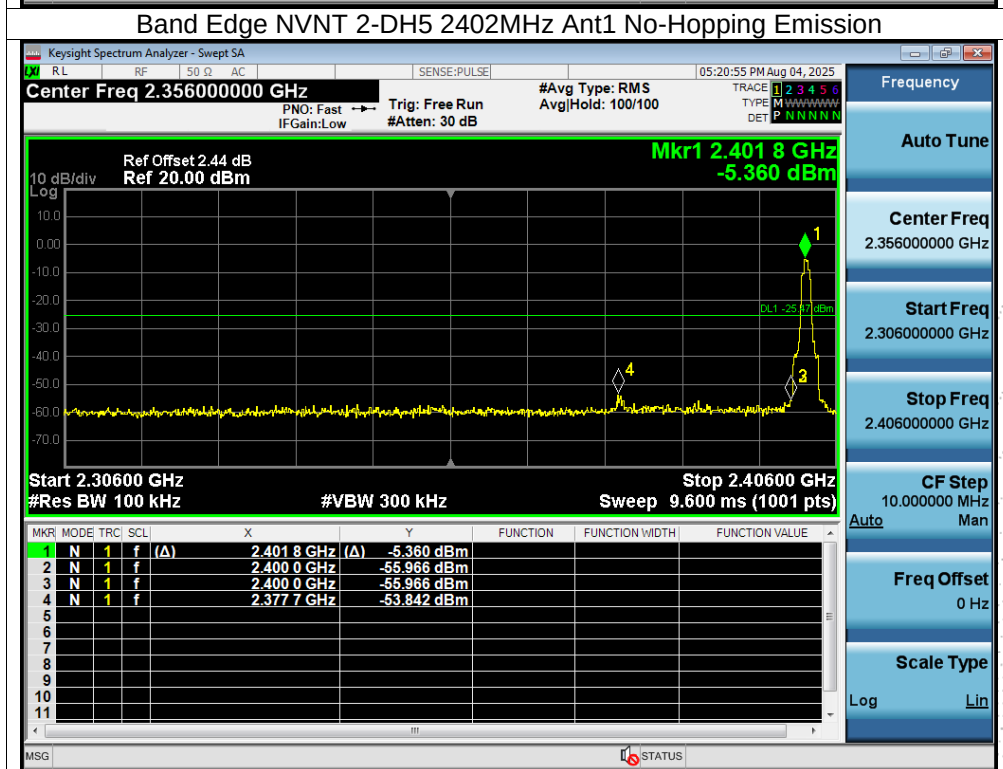
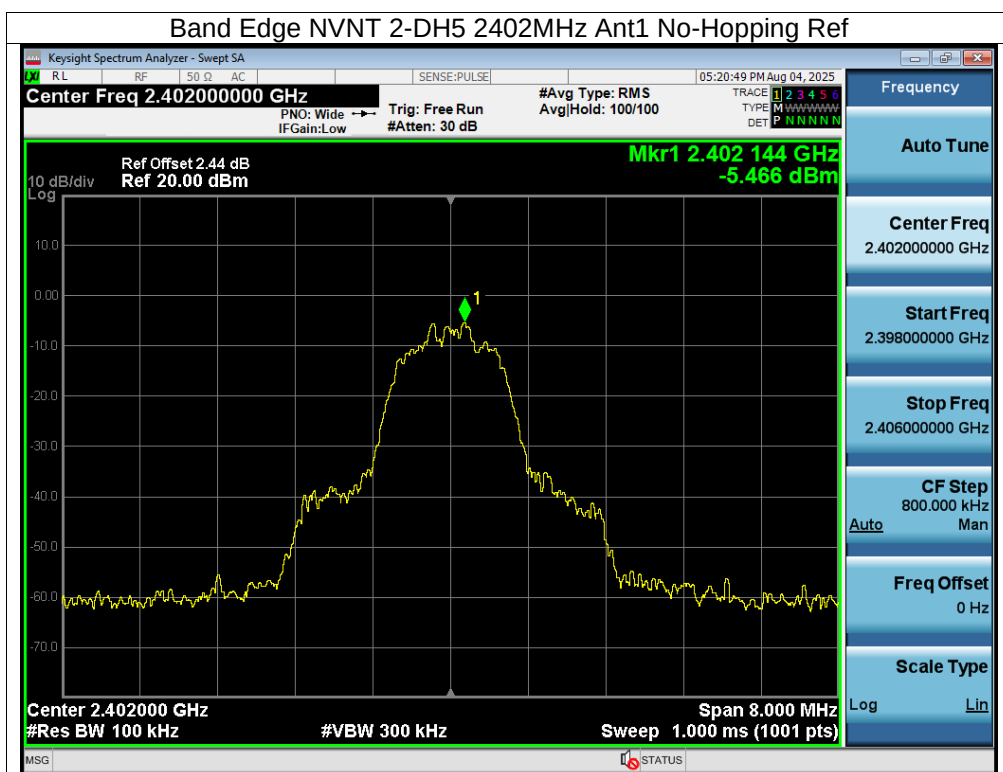


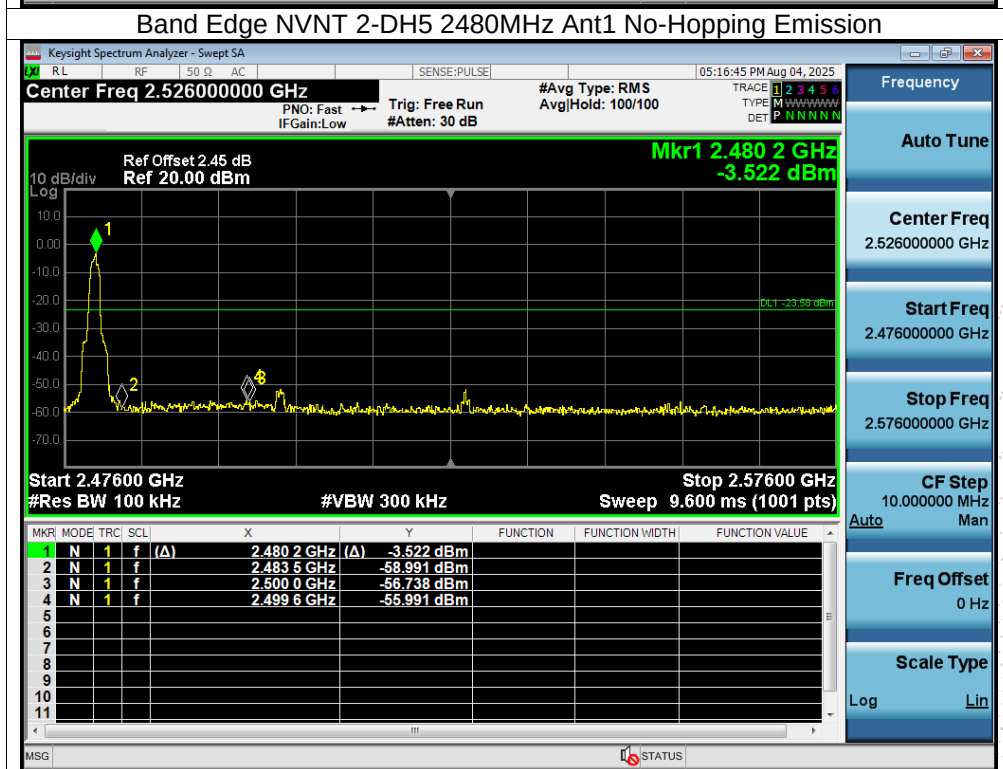
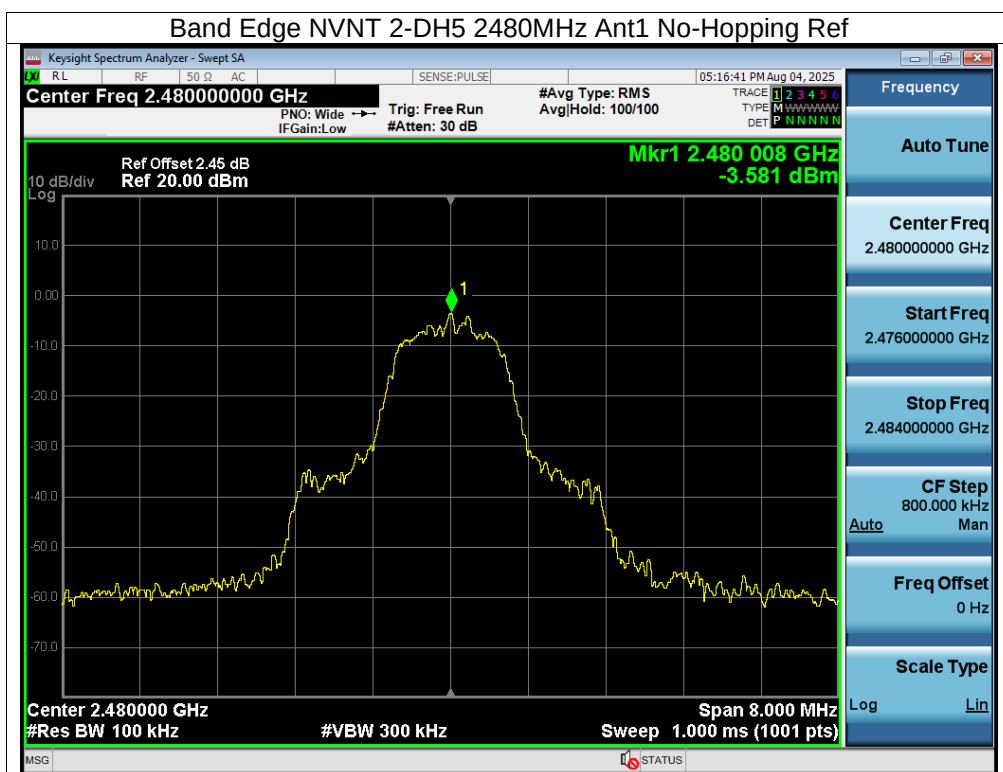


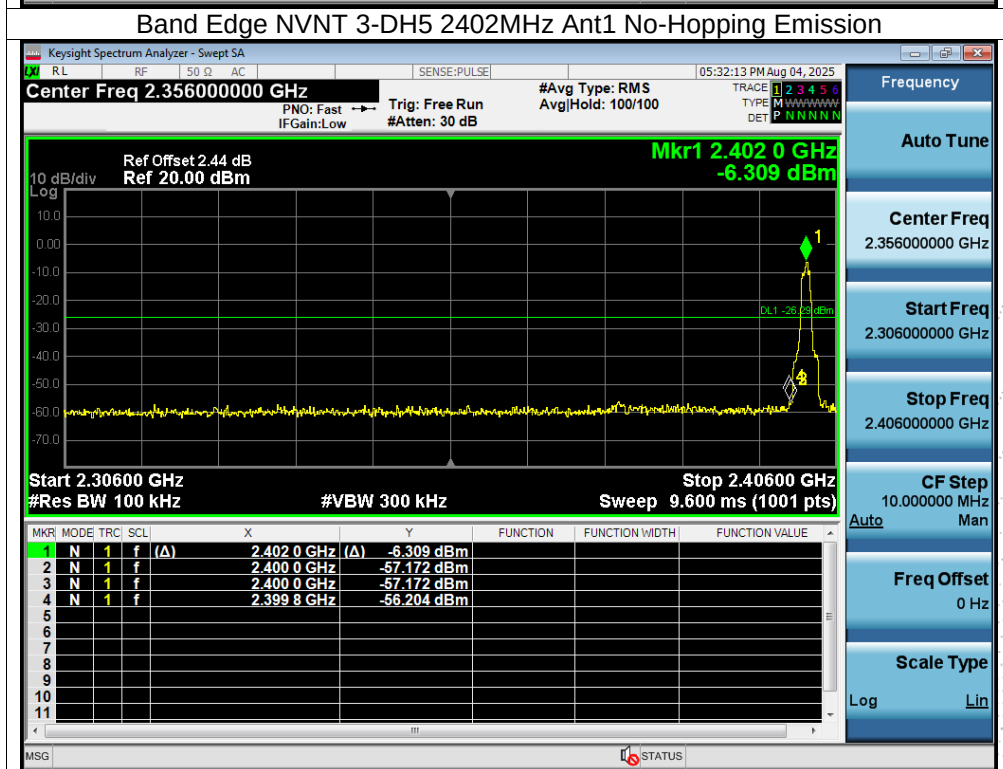
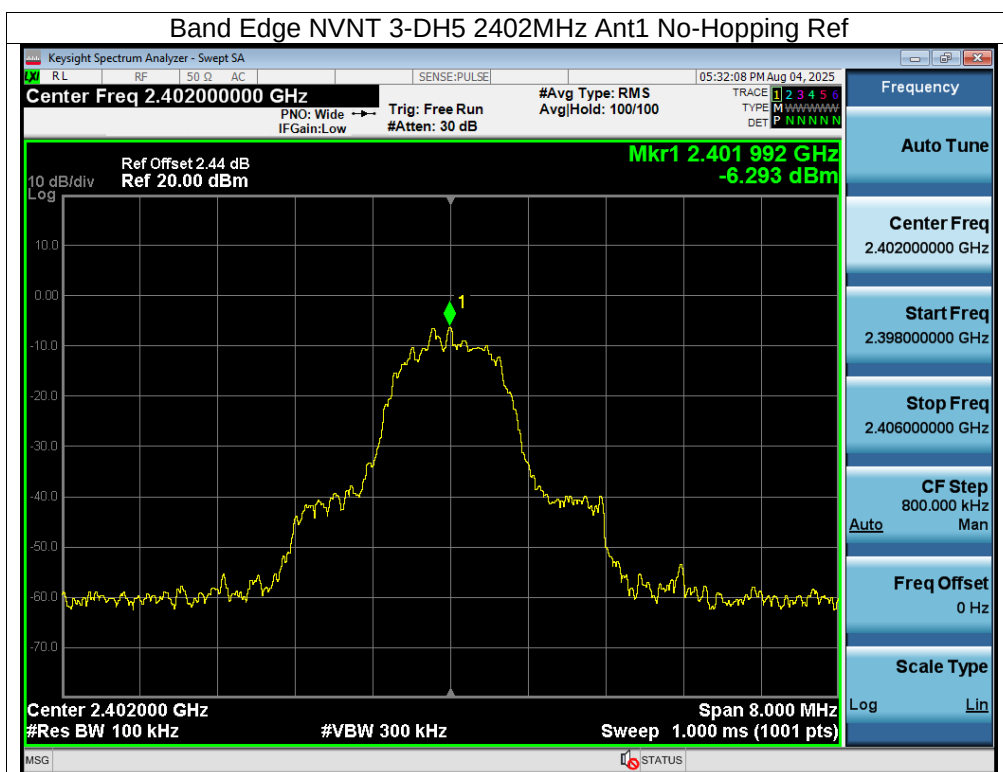


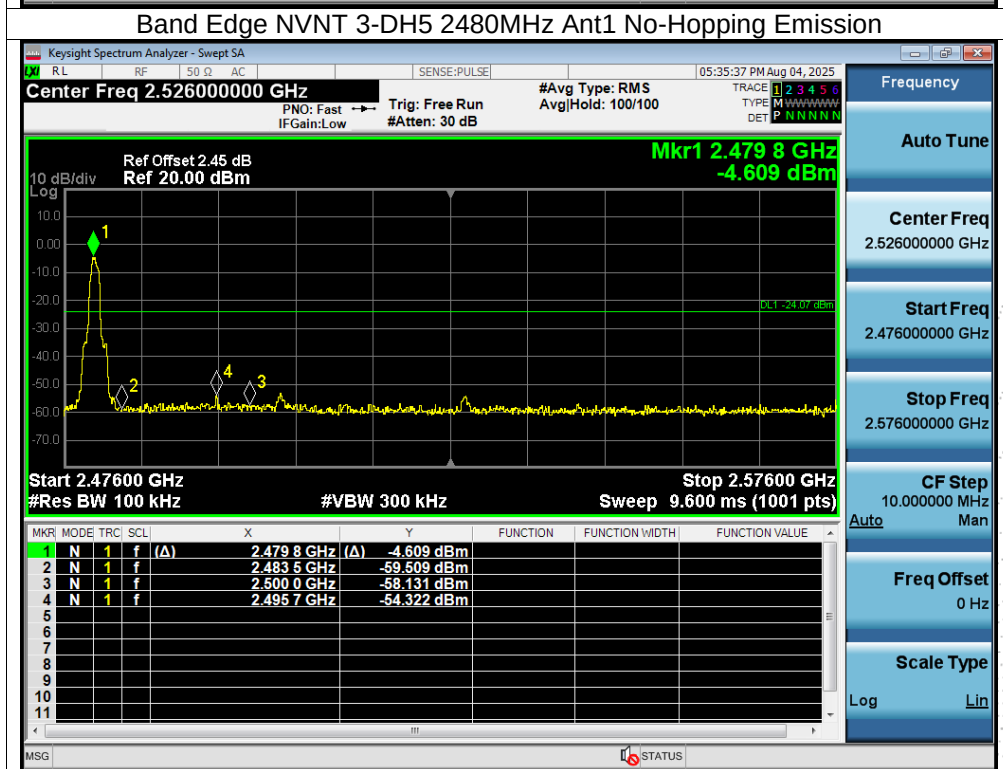
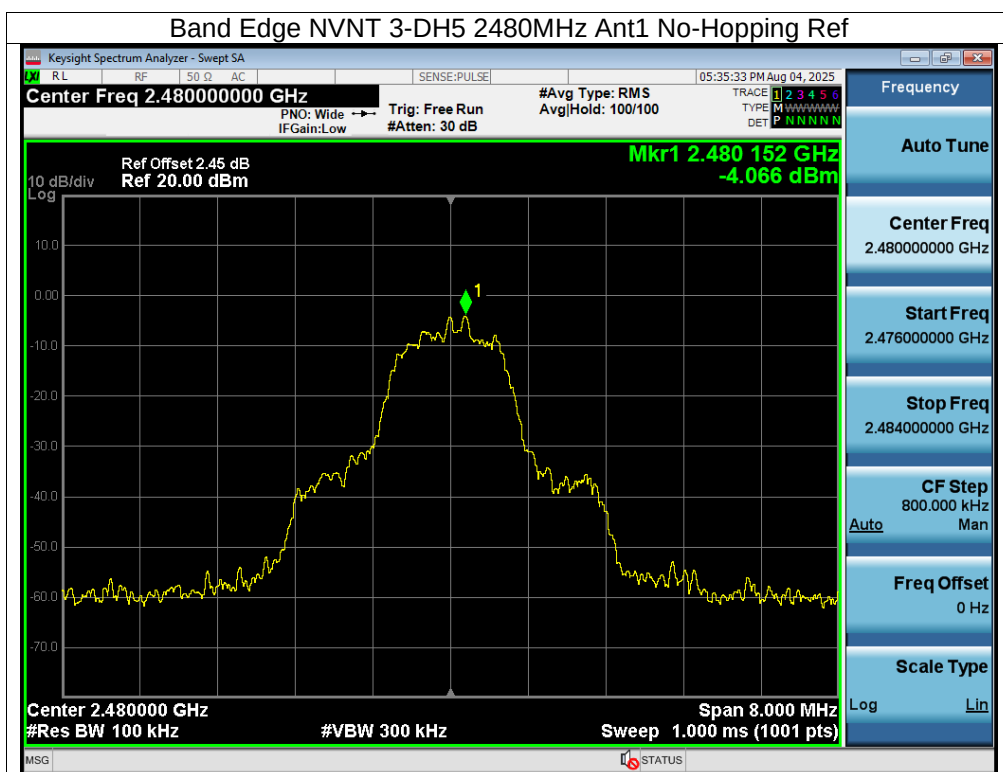


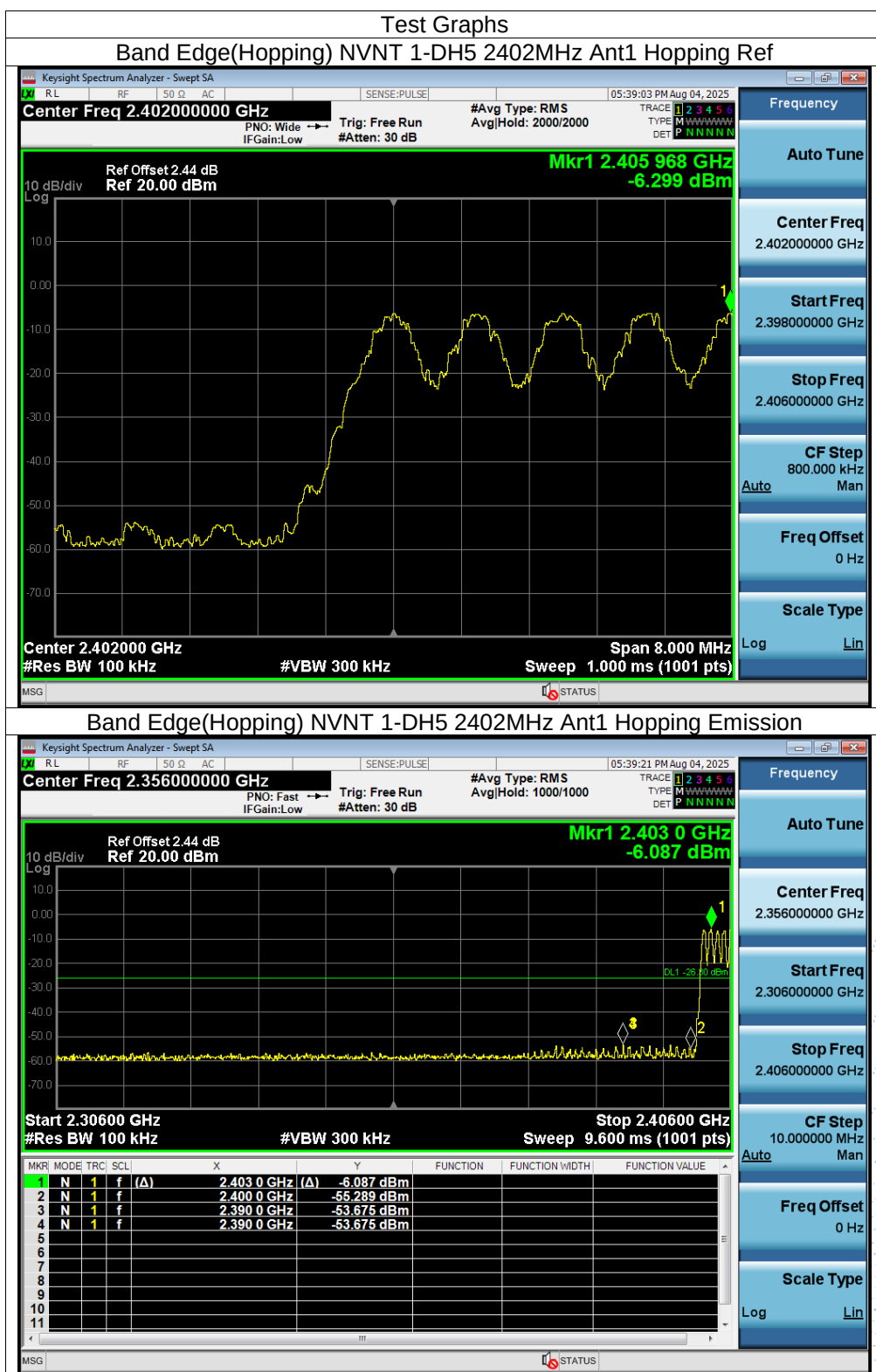


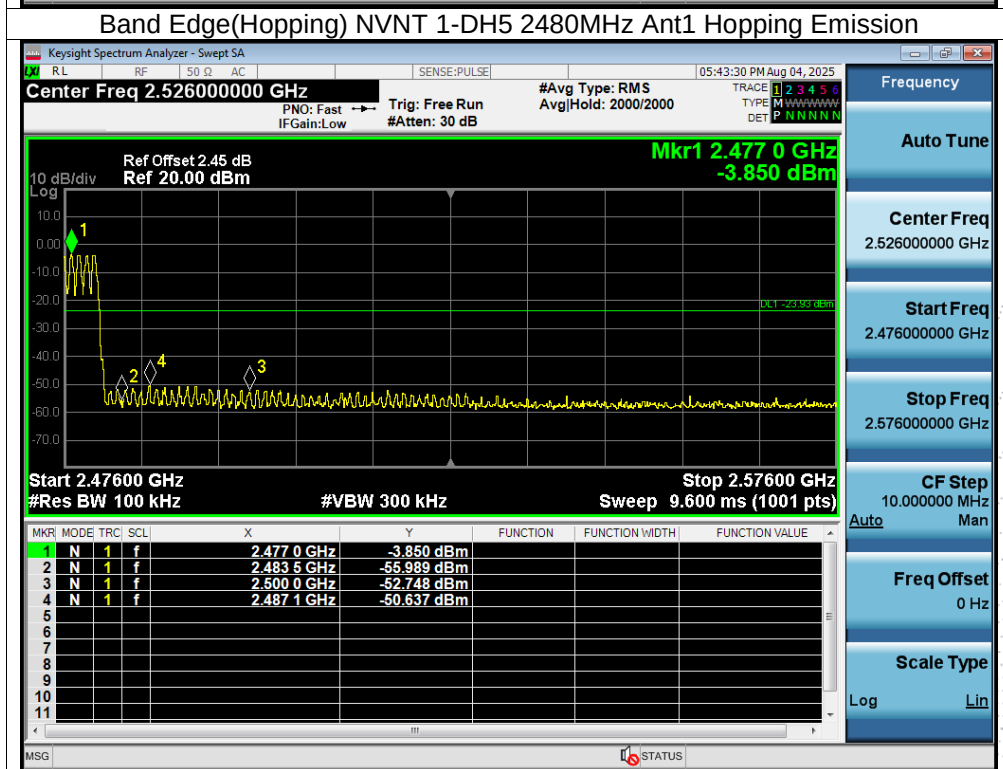
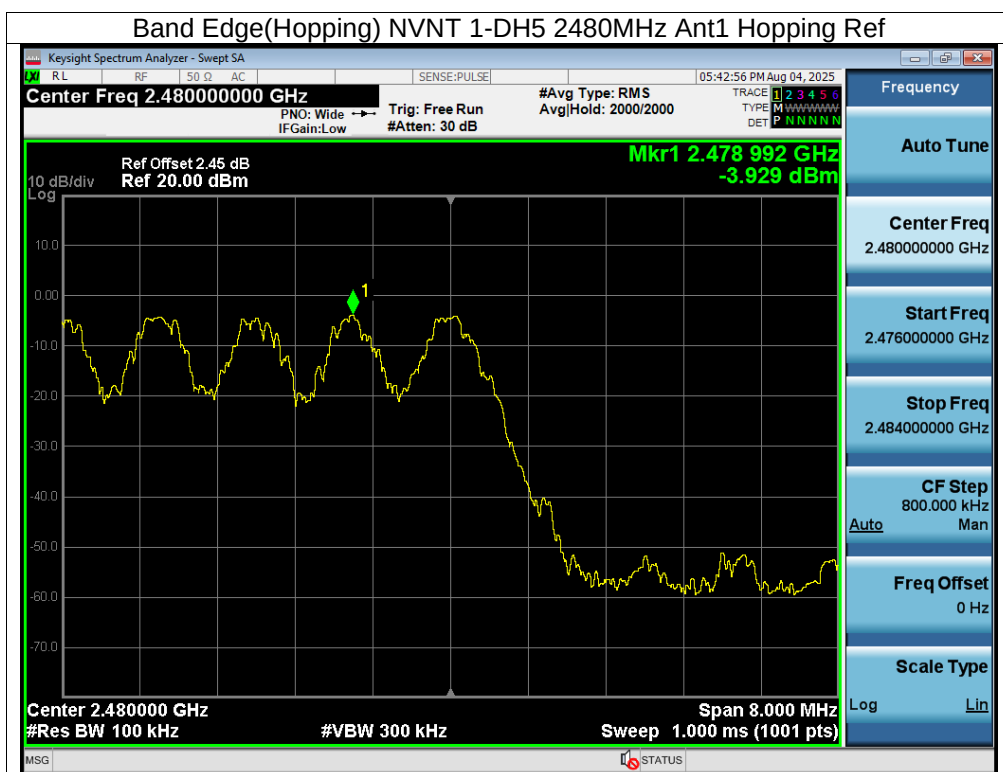


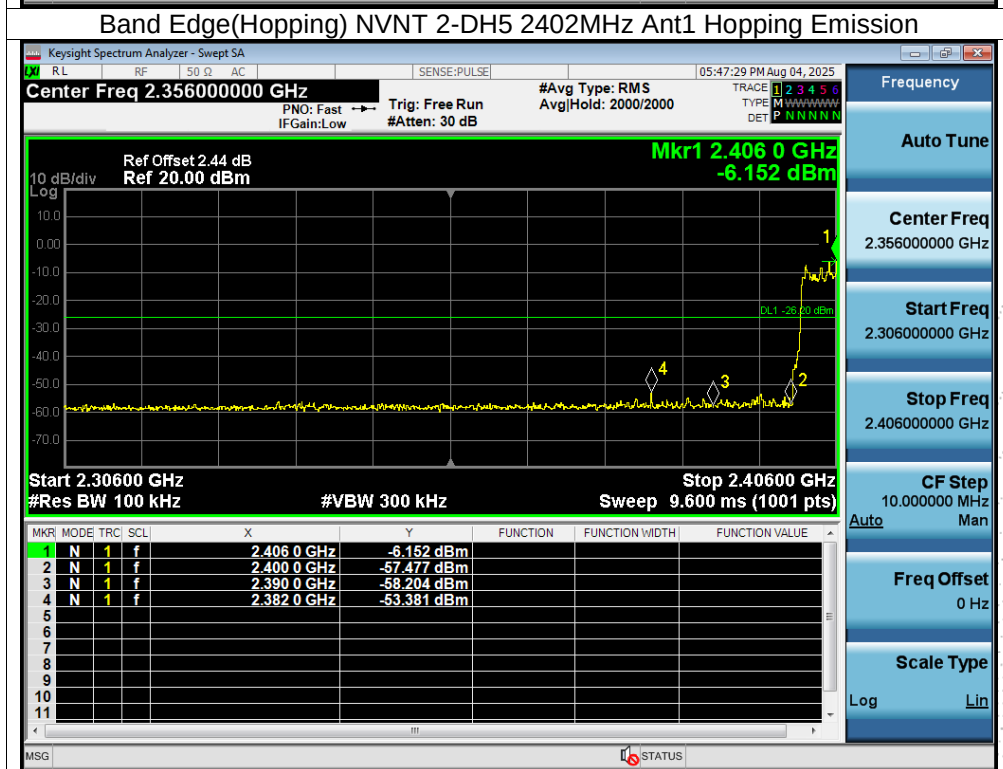
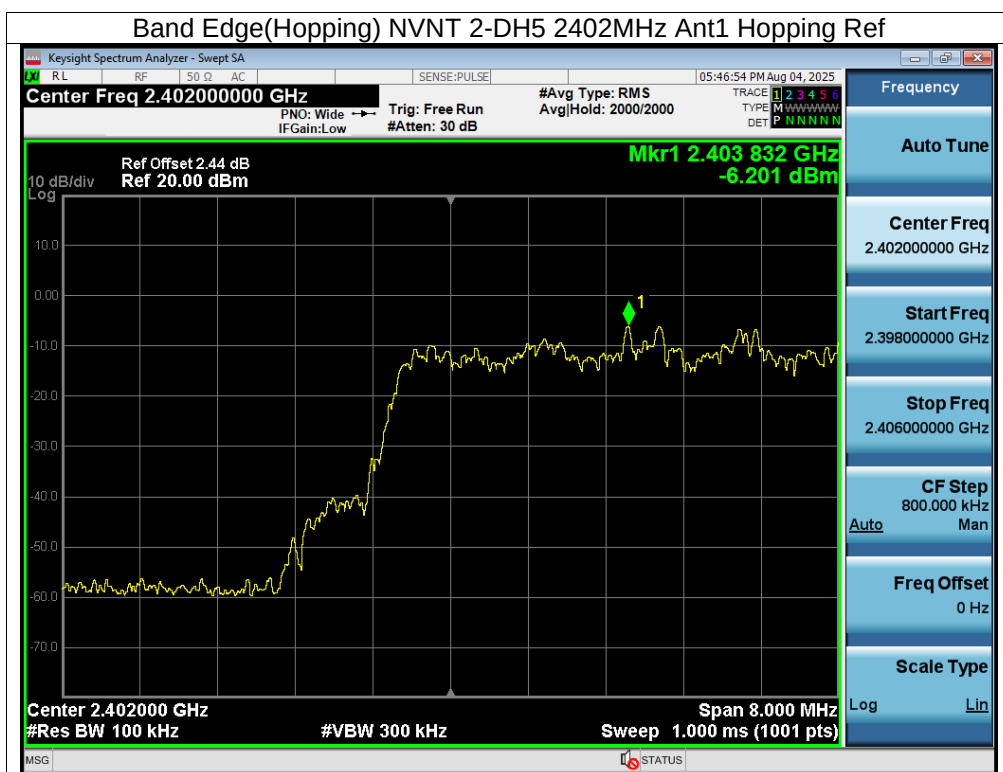


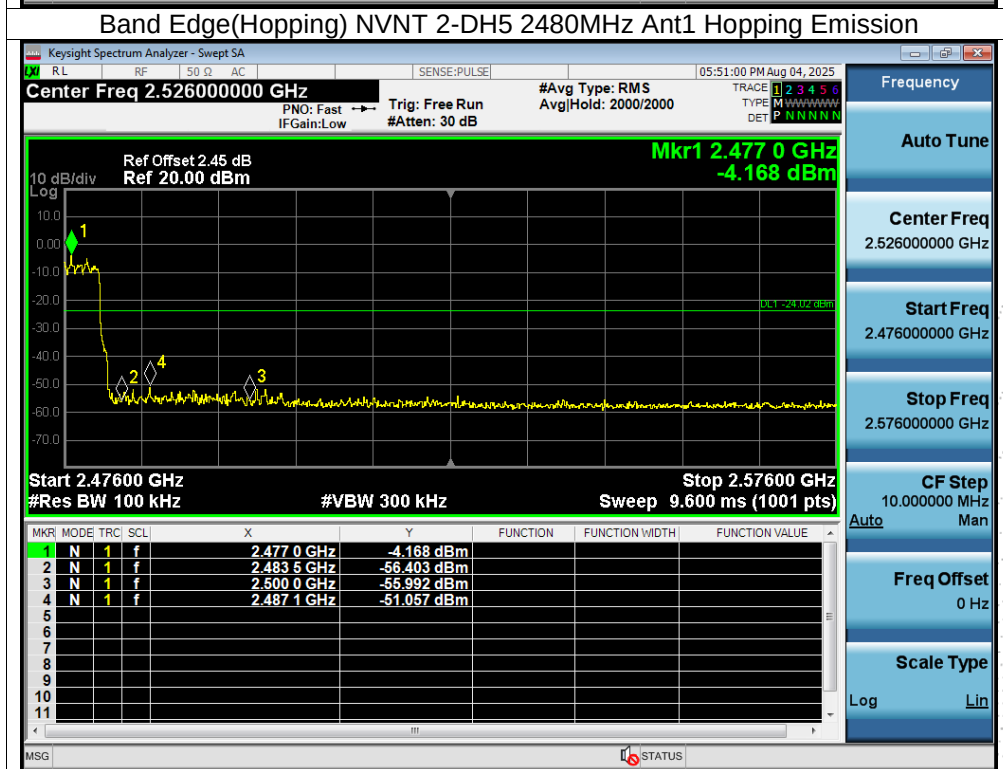
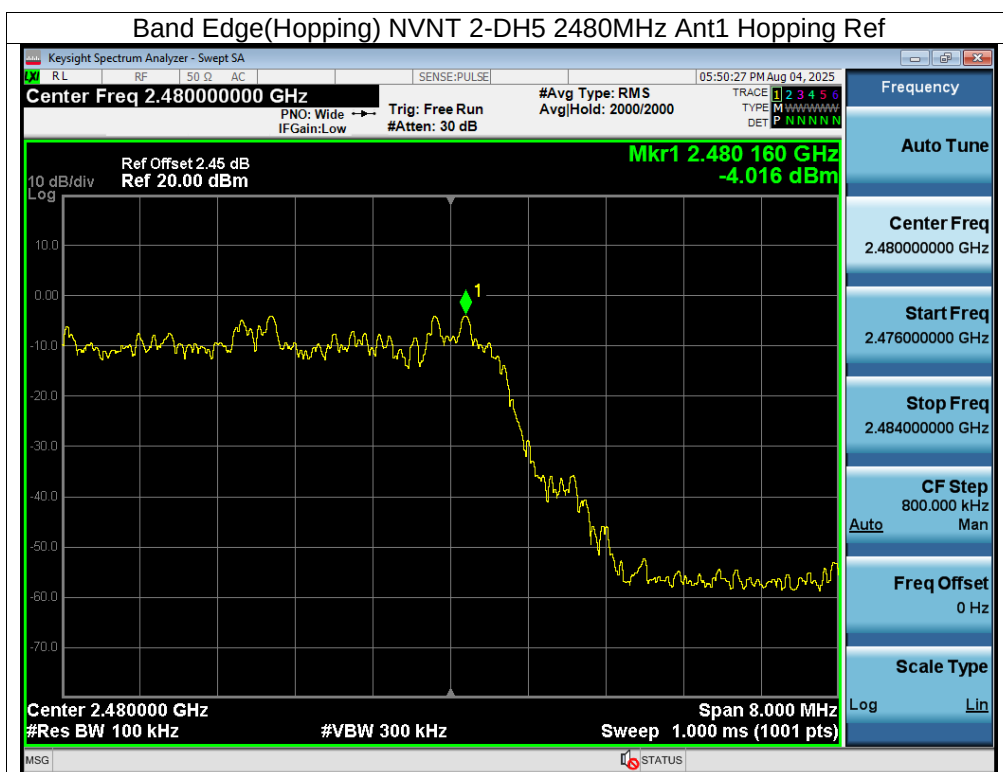




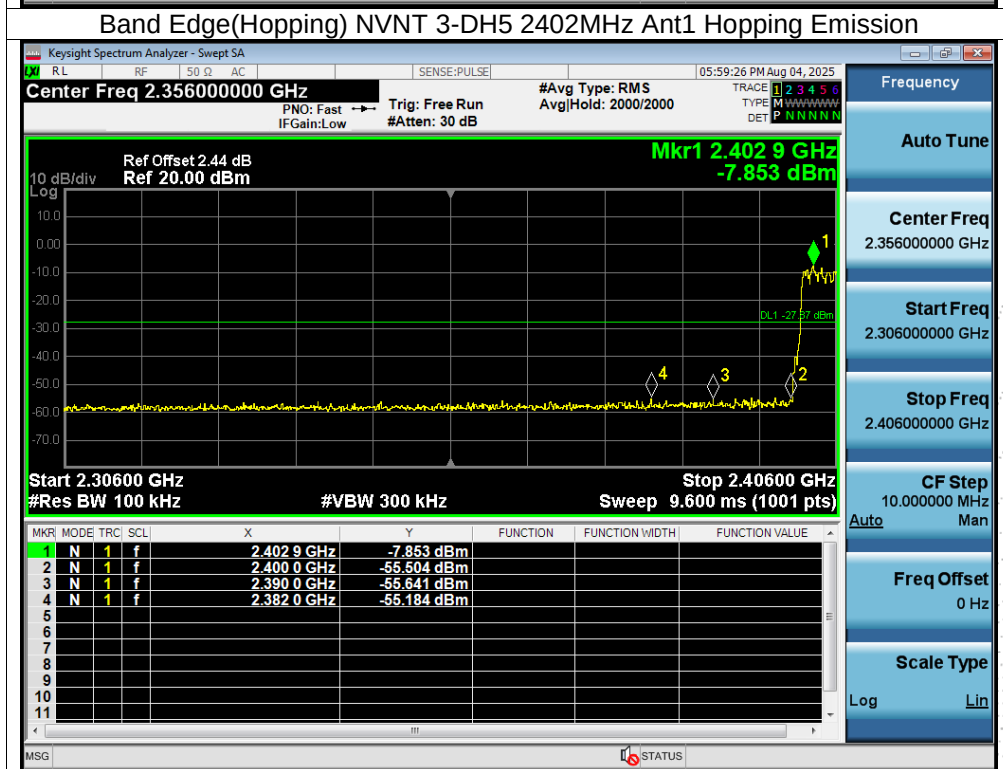
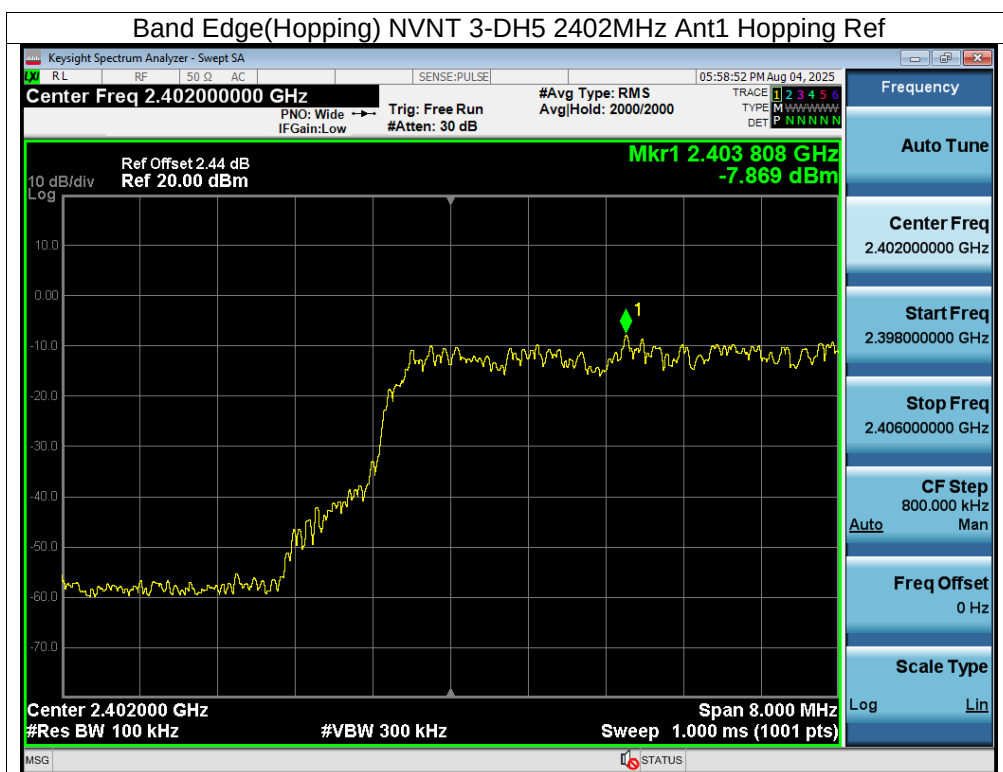


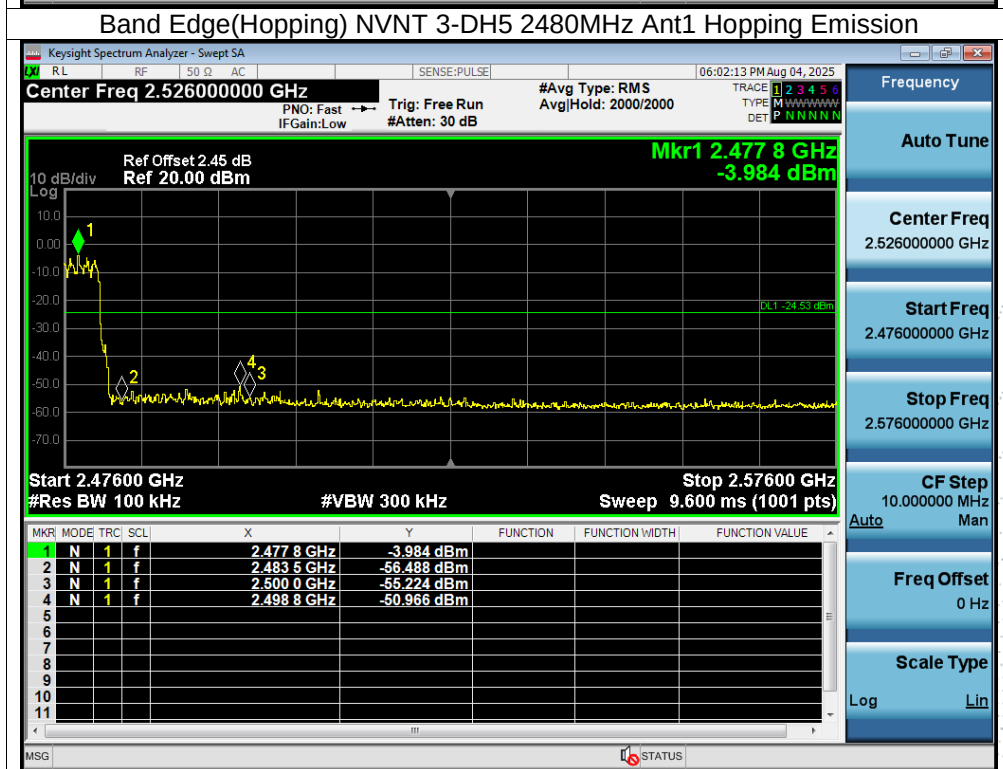
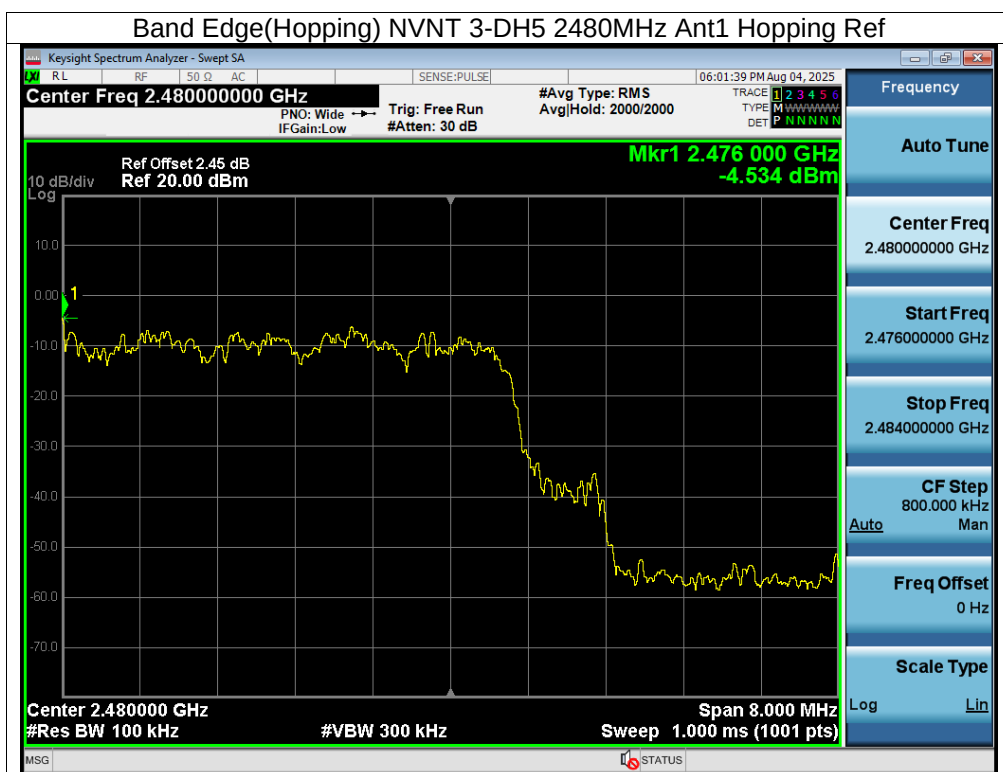






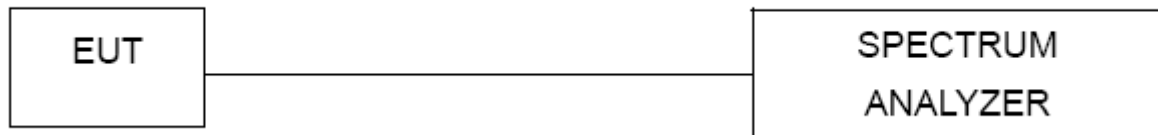
CO. LTD.





10. 20 dB Bandwidth

10.1 Block Diagram Of Test Setup



10.2 Limit

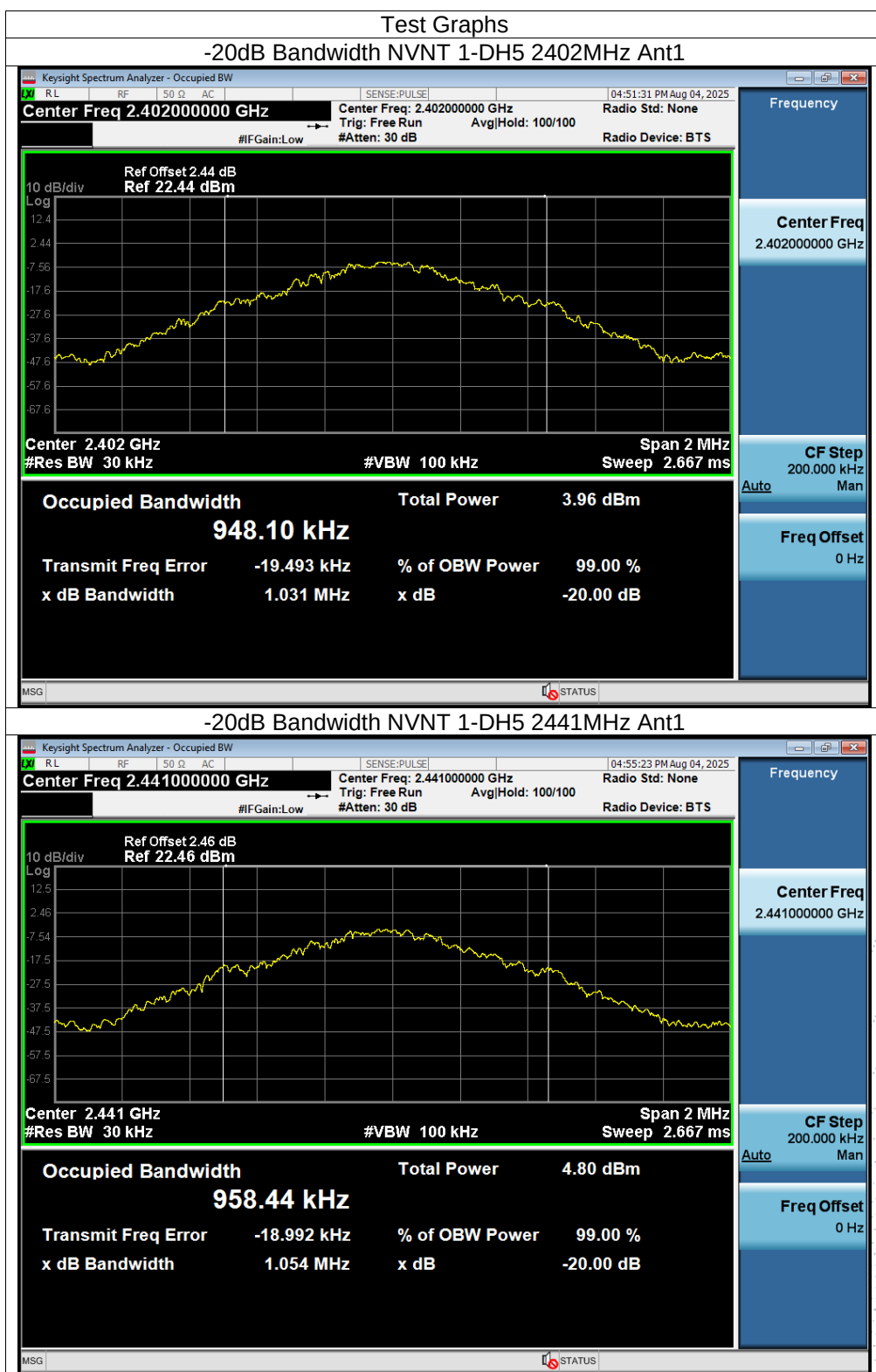
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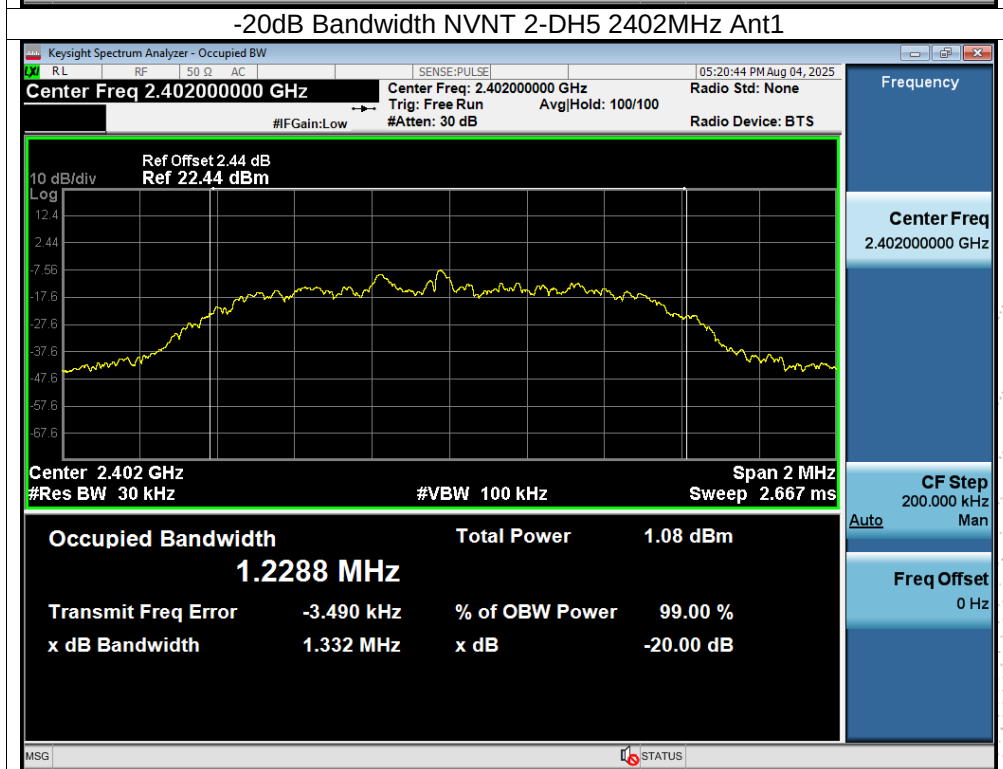
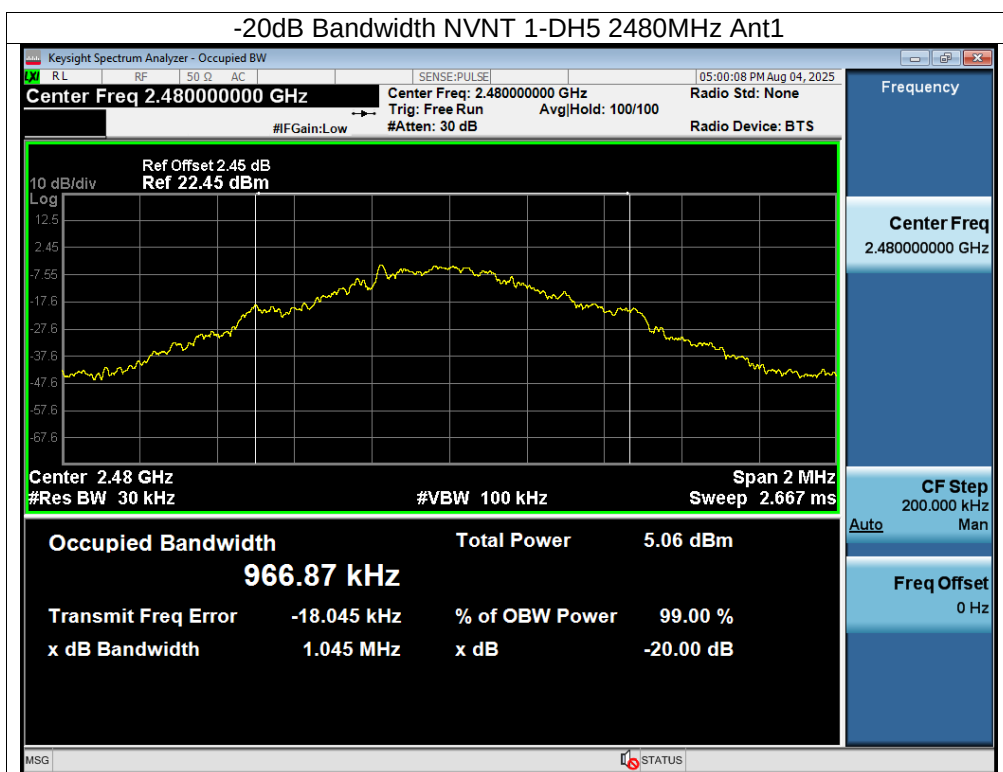
10.3 Test procedure

1. Set RBW = 30kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

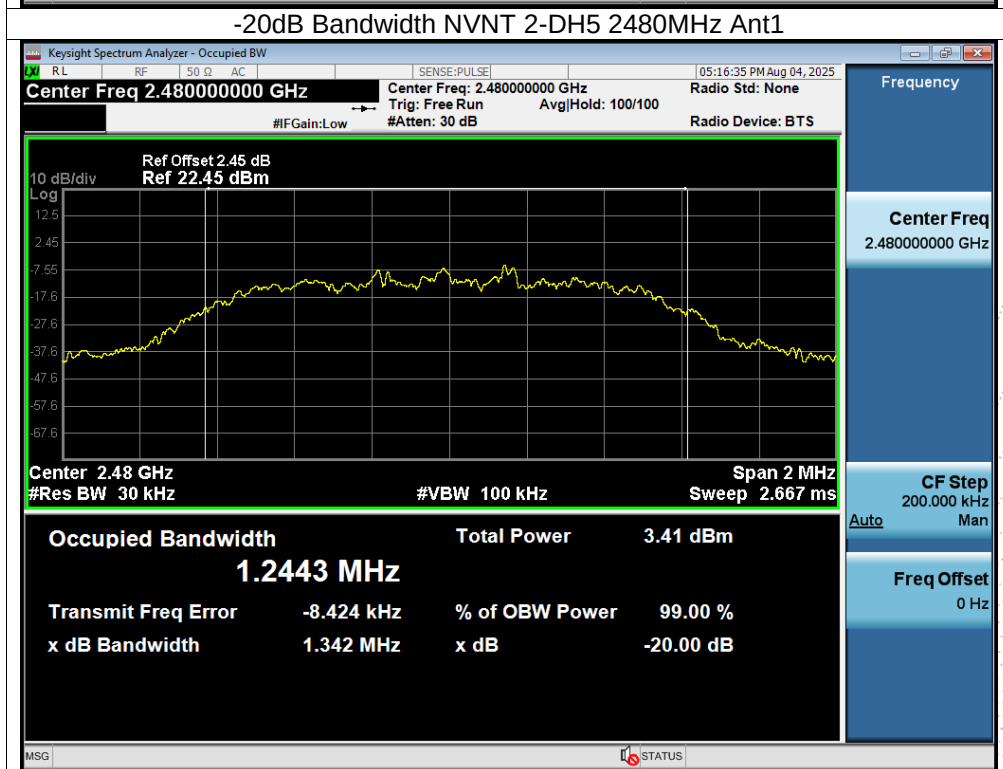
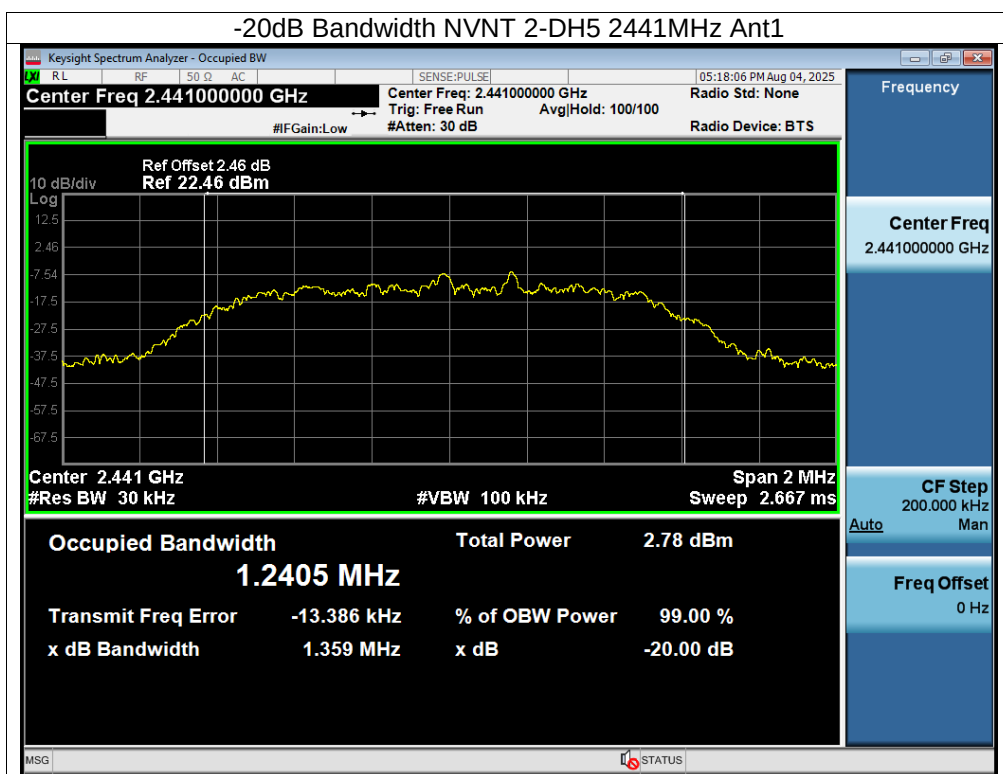
10.4 Test Result

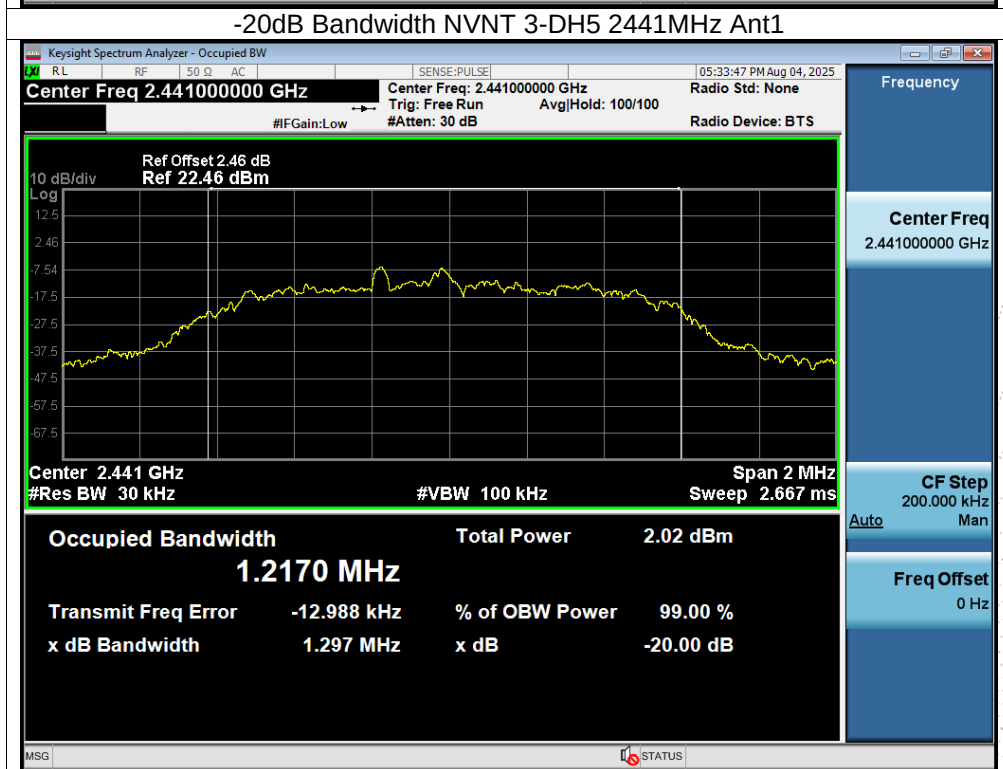
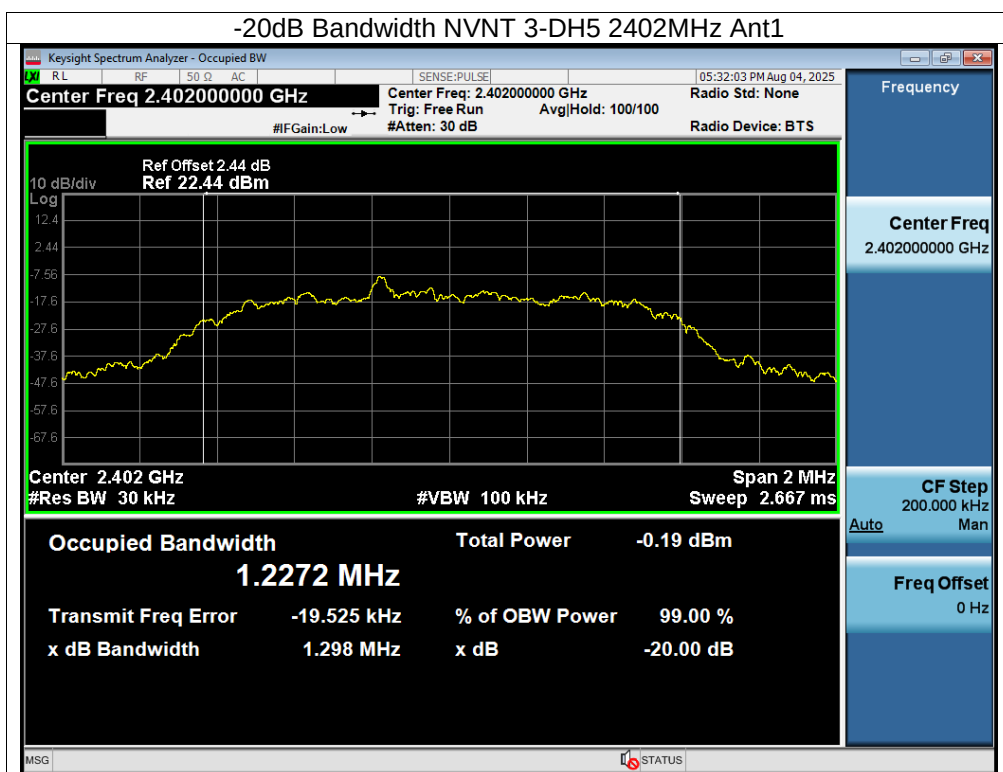
Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	1.031	Pass
NVNT	1-DH5	2441	1.054	Pass
NVNT	1-DH5	2480	1.045	Pass
NVNT	2-DH5	2402	1.332	Pass
NVNT	2-DH5	2441	1.359	Pass
NVNT	2-DH5	2480	1.342	Pass
NVNT	3-DH5	2402	1.298	Pass
NVNT	3-DH5	2441	1.297	Pass
NVNT	3-DH5	2480	1.287	Pass

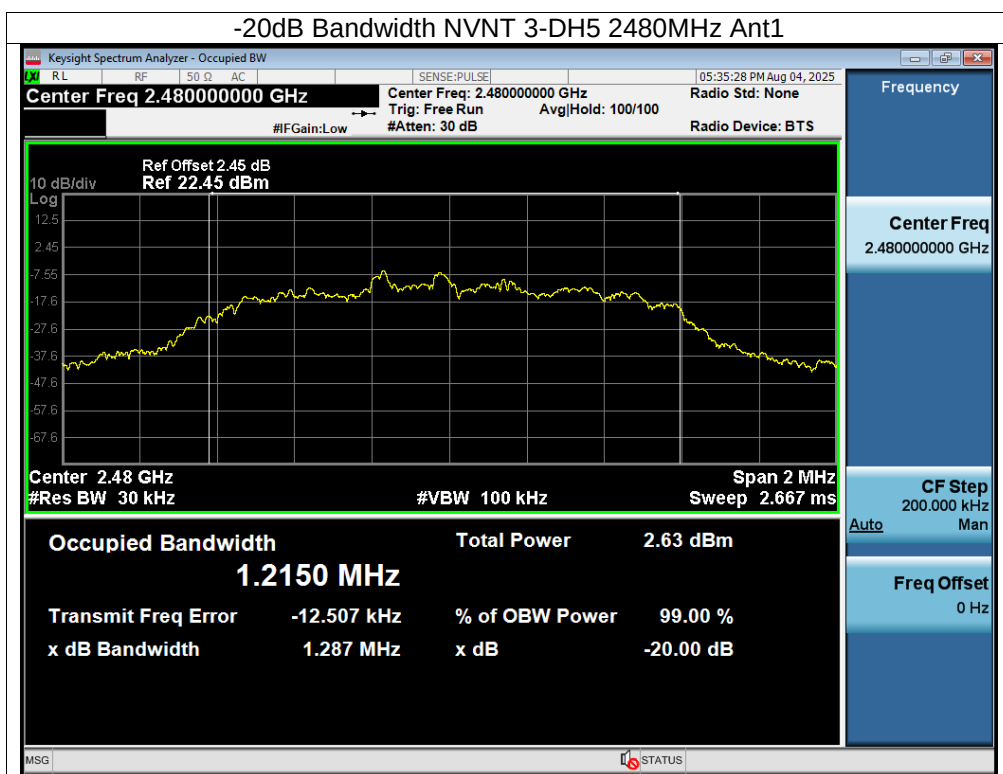




CO. LTD.







BCTC

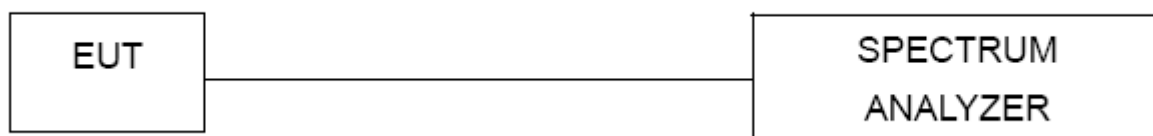
3C

PPR

Report

11. Maximum Peak Output Power

11.1 Block Diagram Of Test Setup



11.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(1)	Peak Output Power	0.125 watt or 21dBm	2400-2483.5	PASS

11.3 Test procedure

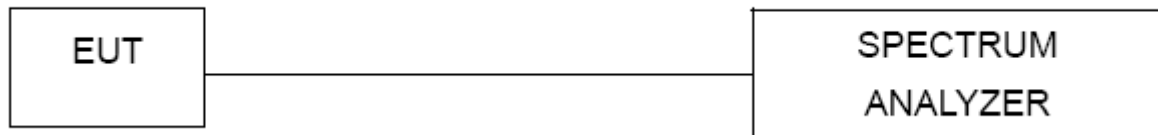
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 2MHz. VBW = 6MHz. Sweep = auto; Detector Function = Peak.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

11.4 Test Result

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	-2.15	21	Pass
NVNT	1-DH5	2441	-1.54	21	Pass
NVNT	1-DH5	2480	-1.74	21	Pass
NVNT	2-DH5	2402	-4.33	21	Pass
NVNT	2-DH5	2441	-2.6	21	Pass
NVNT	2-DH5	2480	-2.12	21	Pass
NVNT	3-DH5	2402	-5.23	21	Pass
NVNT	3-DH5	2441	-3.7	21	Pass
NVNT	3-DH5	2480	-3.04	21	Pass

12. Hopping Channel Separation

12.1 Block Diagram Of Test Setup



12.2 Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 0.125W.

12.3 Test procedure

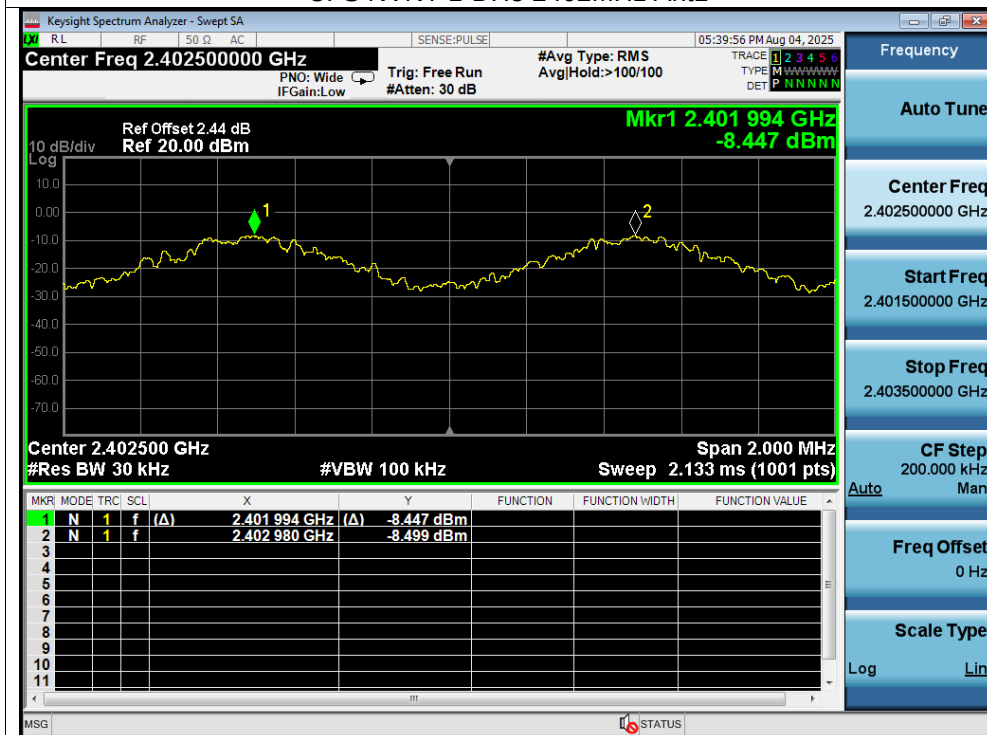
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 30kHz. VBW = 100kHz , Span = 2.0MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

12.4 Test Result

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2401.994	2402.98	0.986	0.687	Pass
NVNT	1-DH5	2440.99	2441.82	0.83	0.703	Pass
NVNT	1-DH5	2479.004	2479.978	0.974	0.697	Pass
NVNT	2-DH5	2401.974	2402.986	1.012	0.888	Pass
NVNT	2-DH5	2440.98	2441.978	0.998	0.906	Pass
NVNT	2-DH5	2478.962	2479.944	0.982	0.895	Pass
NVNT	3-DH5	2401.834	2402.824	0.99	0.865	Pass
NVNT	3-DH5	2440.952	2442.144	1.192	0.865	Pass
NVNT	3-DH5	2478.892	2479.94	1.048	0.858	Pass

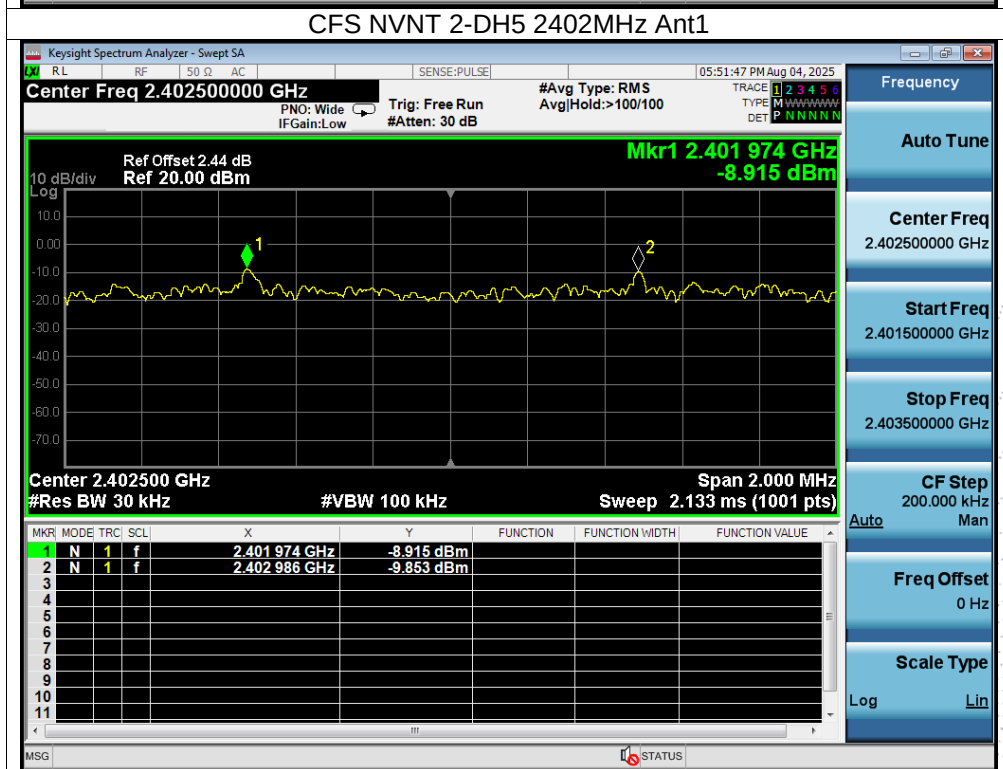
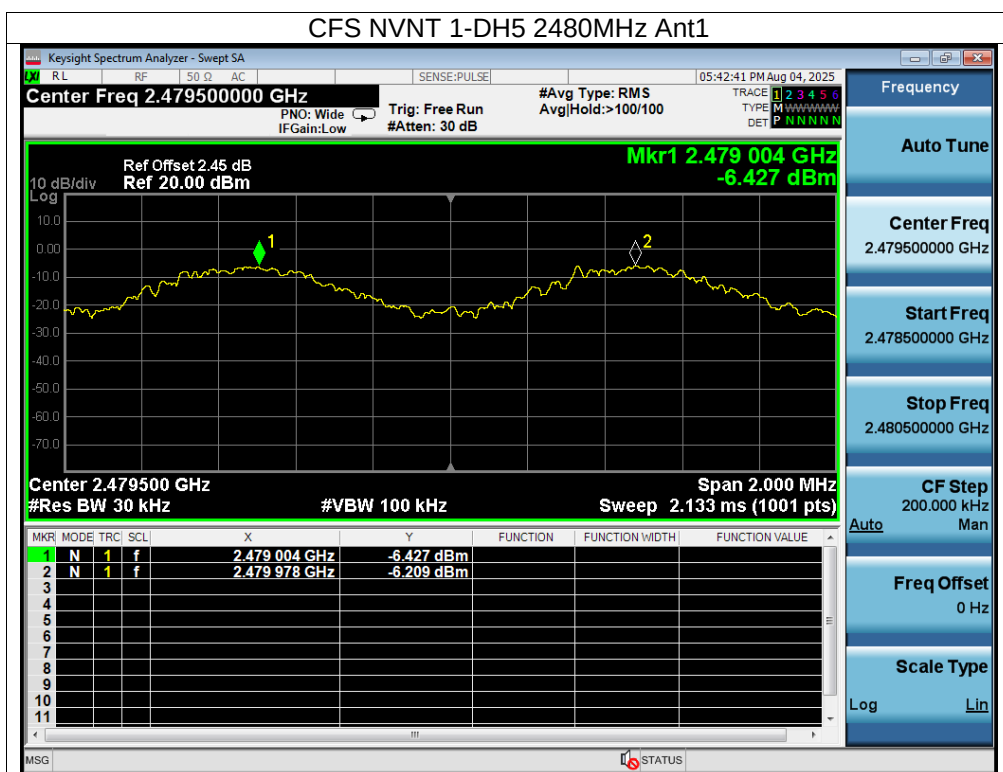
Test Graphs

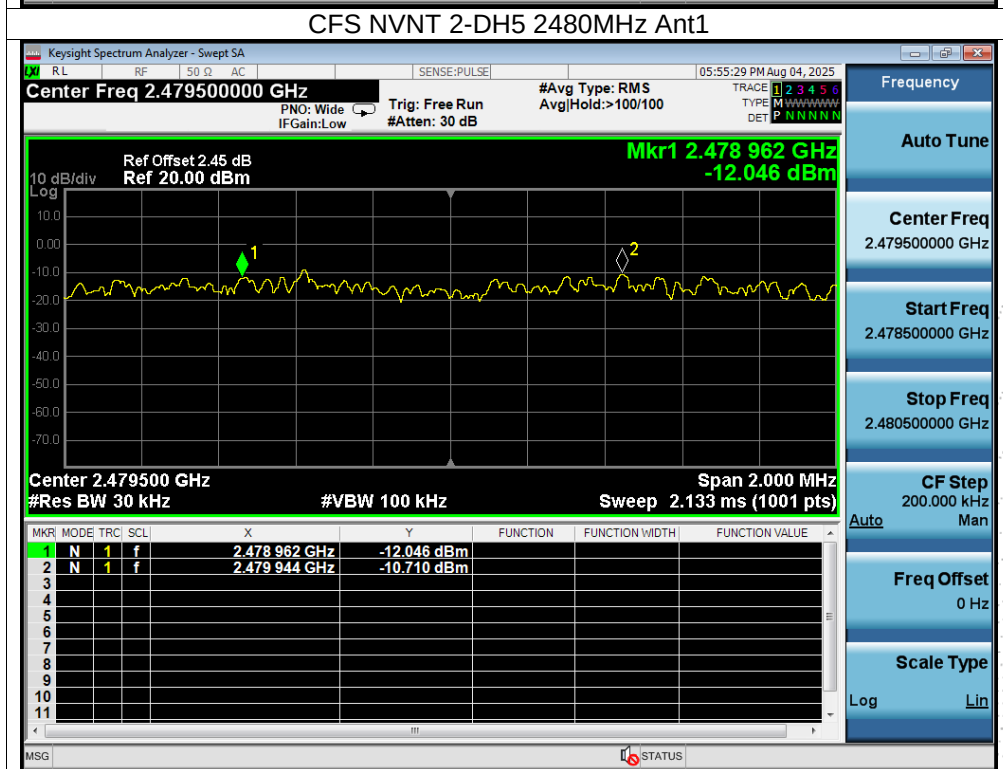
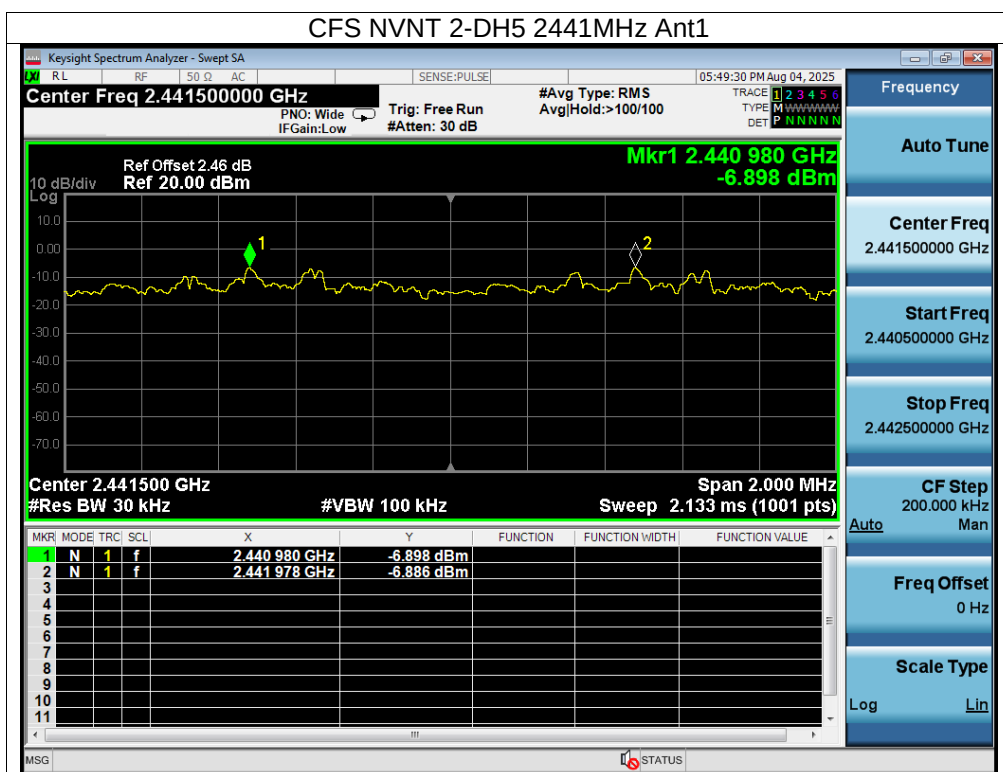
CFS NVNT 1-DH5 2402MHz Ant1

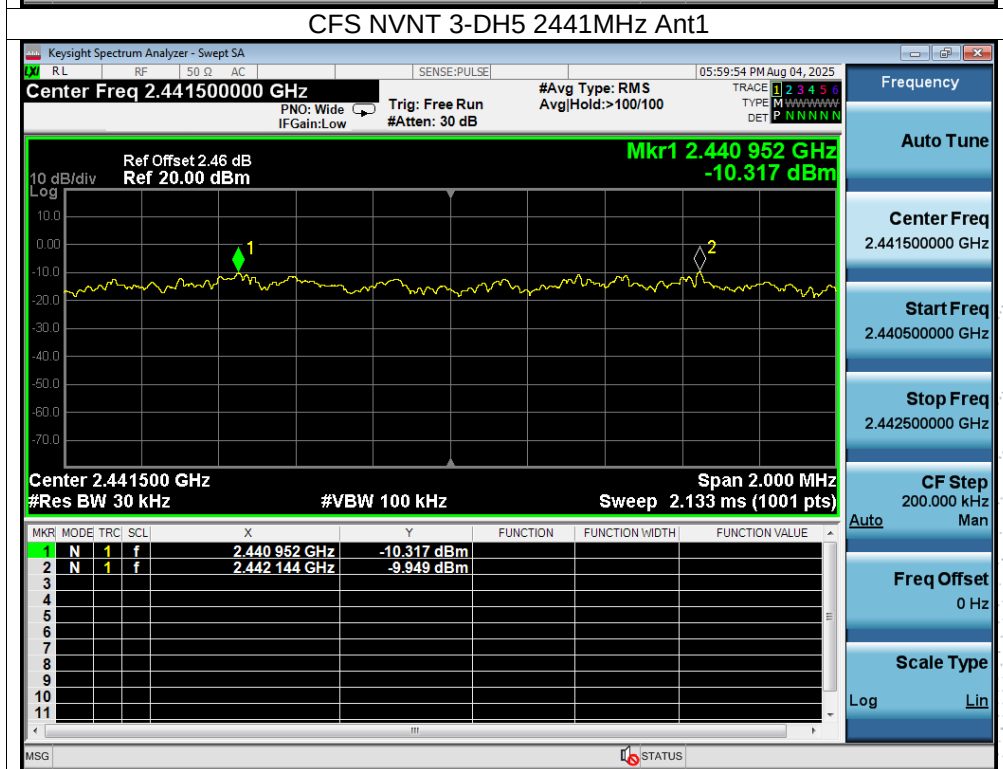
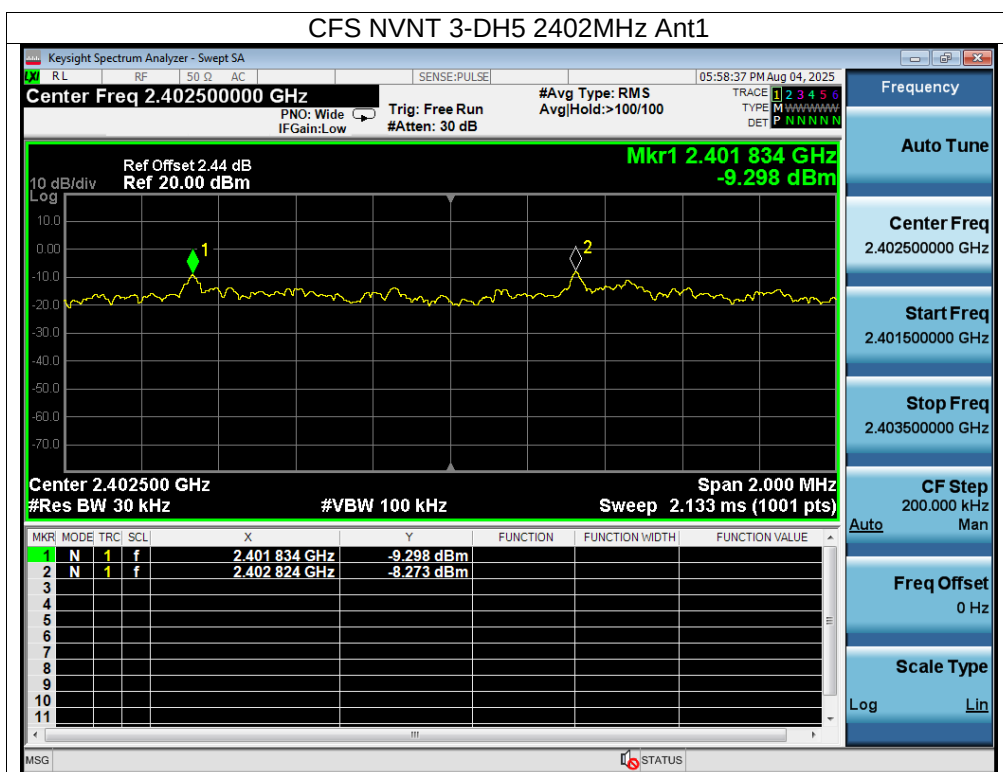


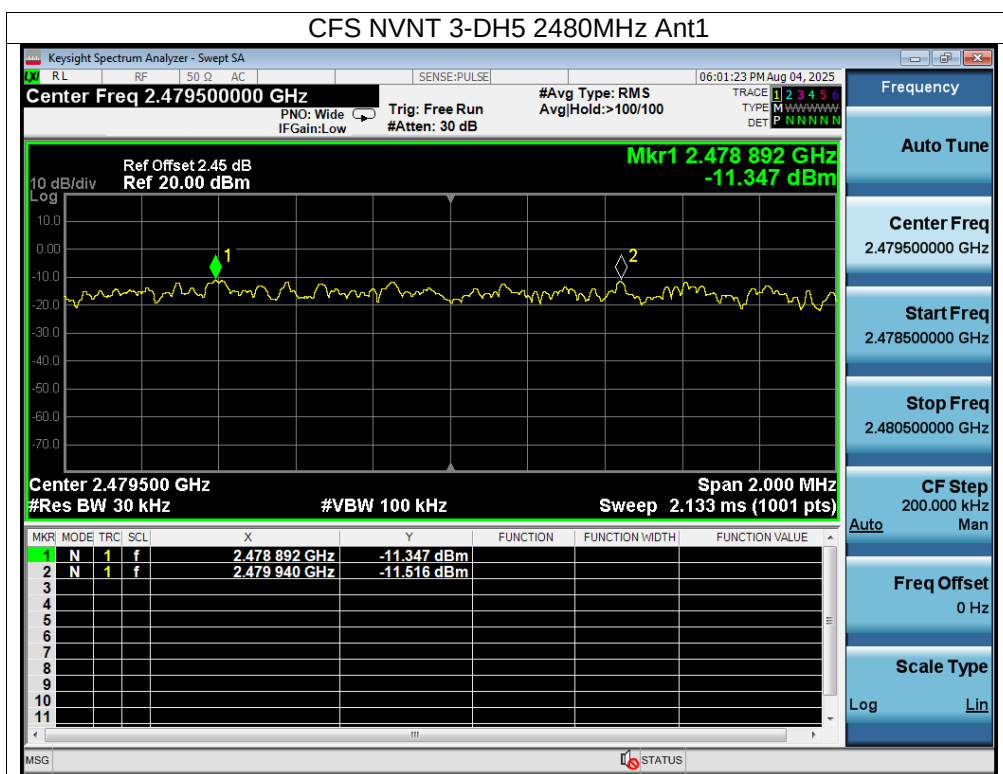
CFS NVNT 1-DH5 2441MHz Ant1





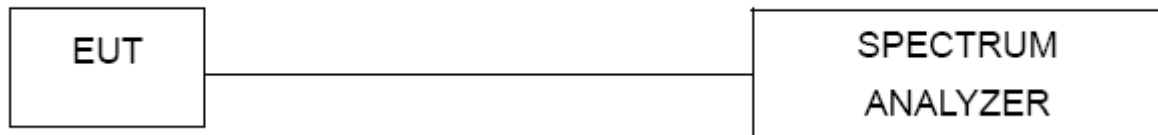






13. Number of Hopping Frequency

13.1 Block Diagram Of Test Setup



13.2 Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

13.3 Test procedure

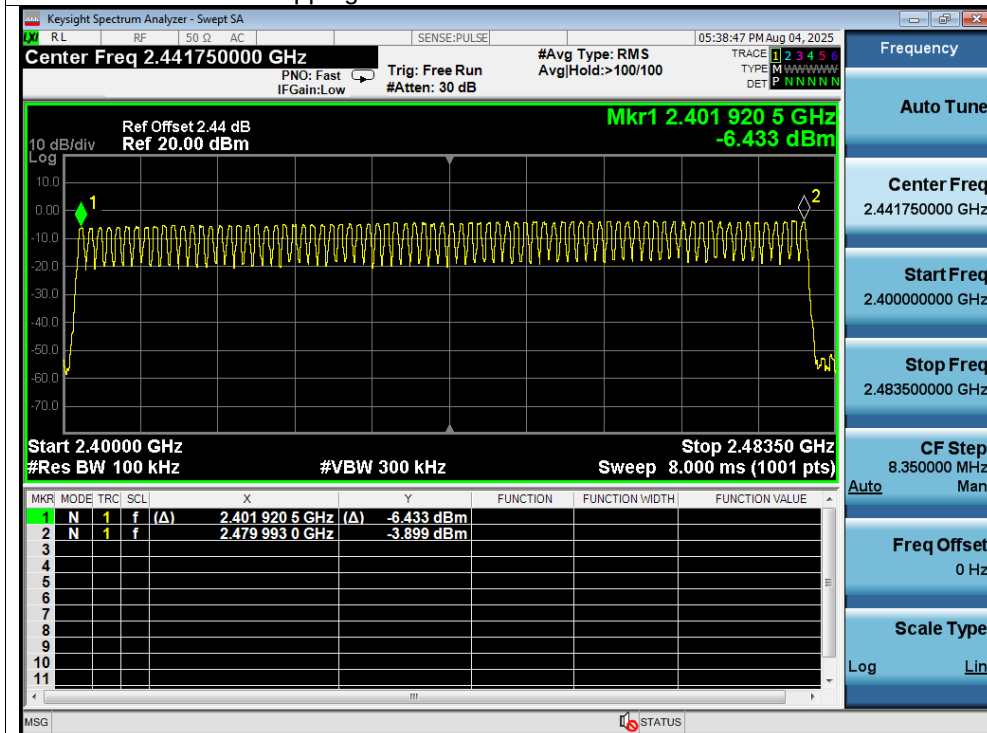
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 100kHz. VBW = 300kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.
4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz. Sweep=auto;

13.4 Test Result

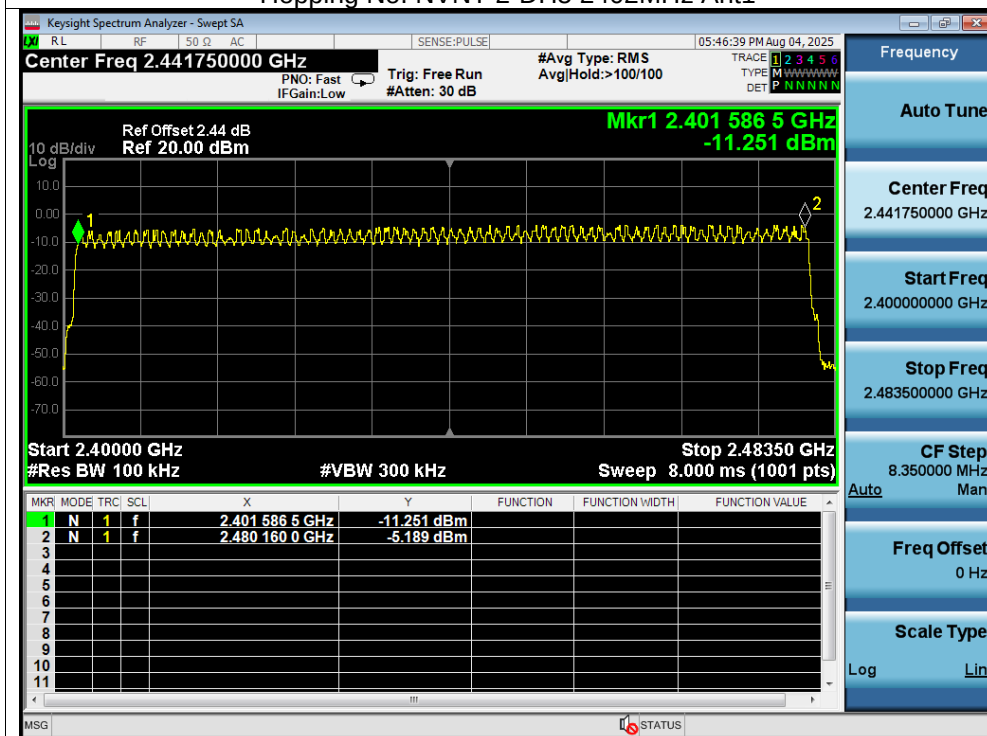
Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH5	79	15	Pass
NVNT	2-DH5	79	15	Pass
NVNT	3-DH5	79	15	Pass

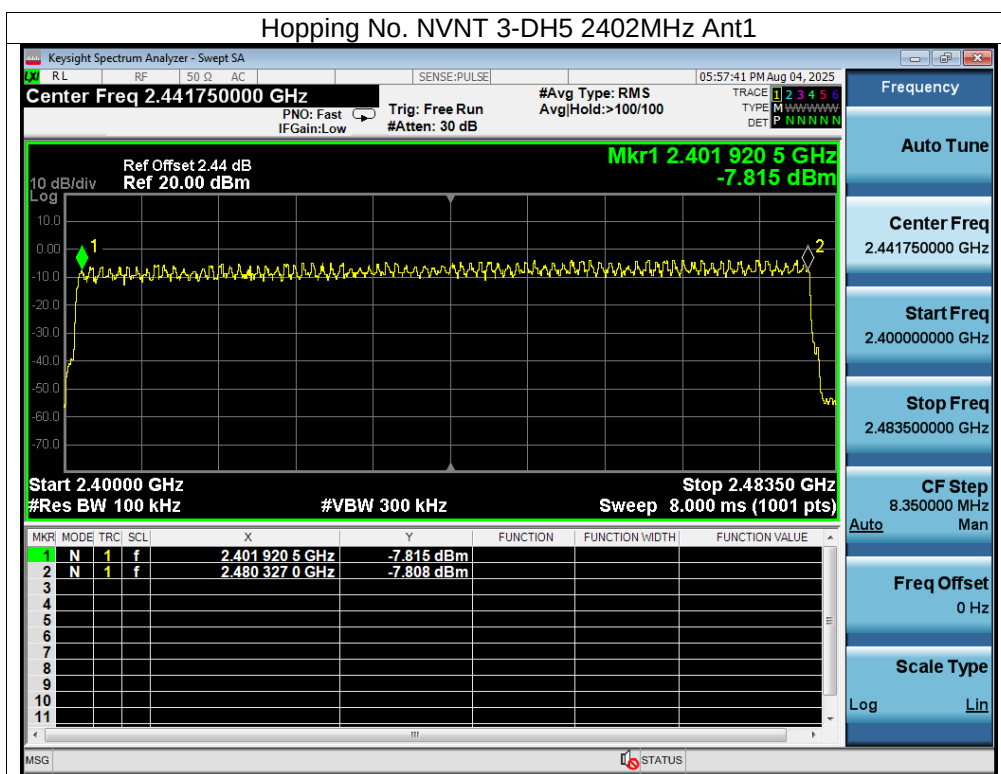
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1





14. Dwell Time

14.1 Block Diagram Of Test Setup



14.2 Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

14.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set spectrum analyzer span = 0. Centred on a hopping channel;
3. Set RBW = 1MHz and VBW = 3MHz. Sweep = as necessary to capture the entire dwell time per hopping channel. Set the EUT for DH5, DH3 and DH1 packet transmitting.
4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g.. data rate. modulation format. etc.). repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

14.4 Test Result

DH5 Packet permit maximum $1600 / 79 / 6$ hops per second in each channel
(5 time slots RX, 1 time slot TX).

DH3 Packet permit maximum $1600 / 79 / 4$ hops per second in each channel
(3 time slots RX, 1 time slot TX).

DH1 Packet permit maximum $1600 / 79 / 2$ hops per second in each channel
(1 time slot RX, 1 time slot TX). So, the Dwell-Time can be calculated as follows:

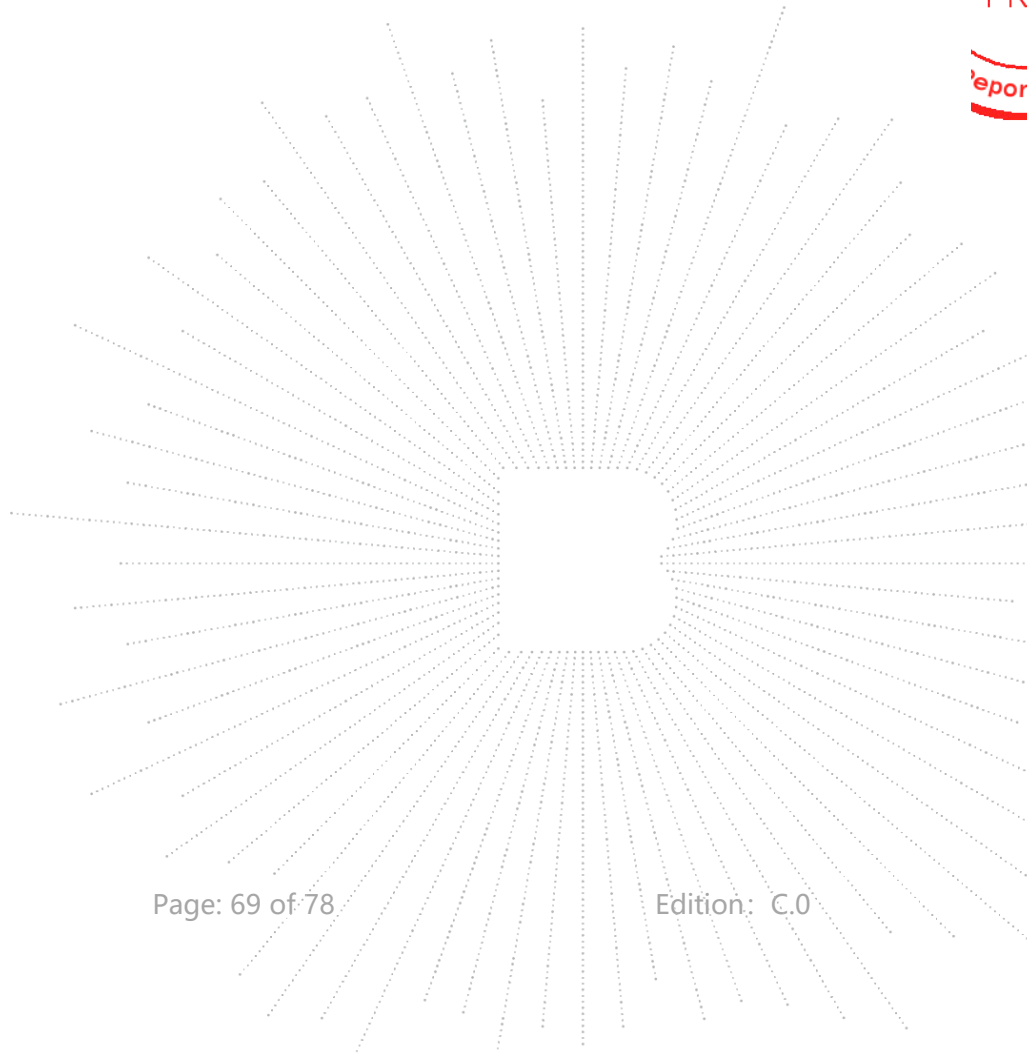
DH5: $1600/79/6 \times 0.4 \times 79 \times (\text{MkrDelta})/1000$

DH3: $1600/79/4 \times 0.4 \times 79 \times (\text{MkrDelta})/1000$

DH1: $1600/79/2 \times 0.4 \times 79 \times (\text{MkrDelta})/1000$

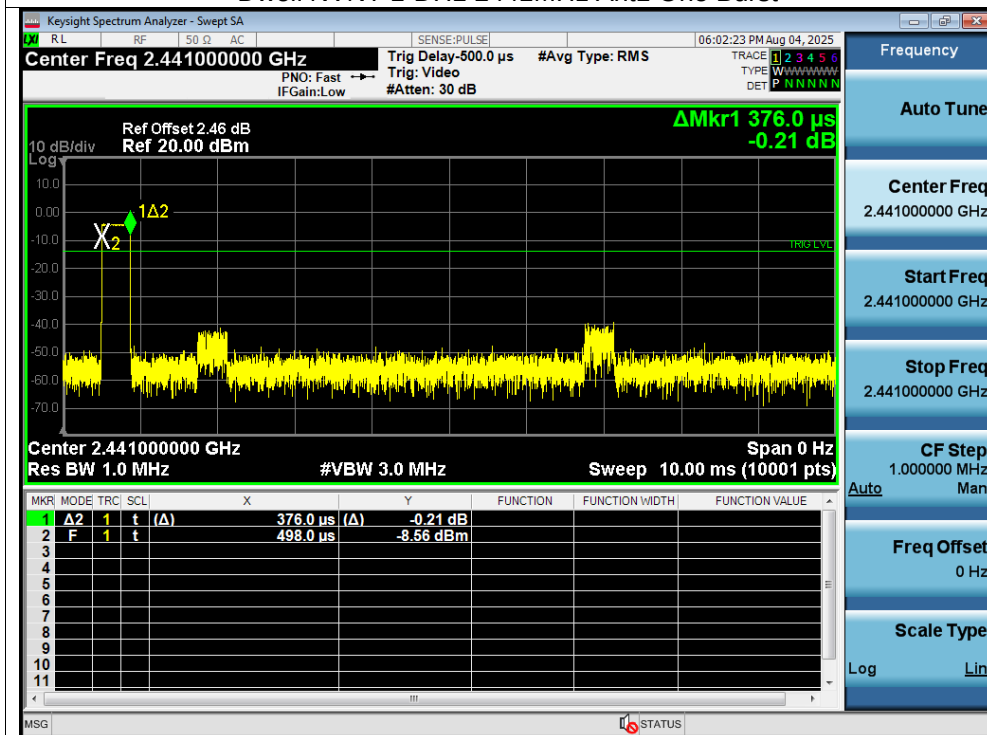
Remark: Mkr Delta is once pulse time.

Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	0.376	119.944	400	Pass
NVNT	1-DH3	2441	1.631	262.591	400	Pass
NVNT	1-DH5	2441	2.879	279.263	400	Pass
NVNT	2-DH1	2441	0.386	129.31	400	Pass
NVNT	2-DH3	2441	1.635	539.55	400	Pass
NVNT	2-DH5	2441	2.886	577.2	400	Pass
NVNT	3-DH1	2441	0.386	126.994	400	Pass
NVNT	3-DH3	2441	1.637	263.557	400	Pass
NVNT	3-DH5	2441	2.887	655.349	400	Pass

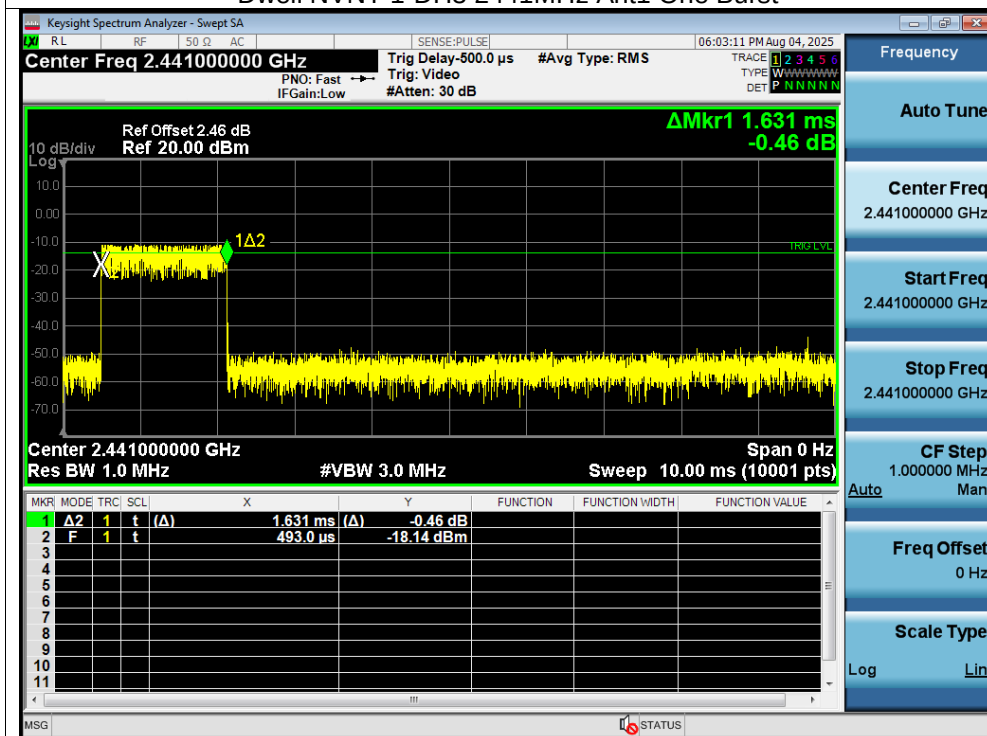


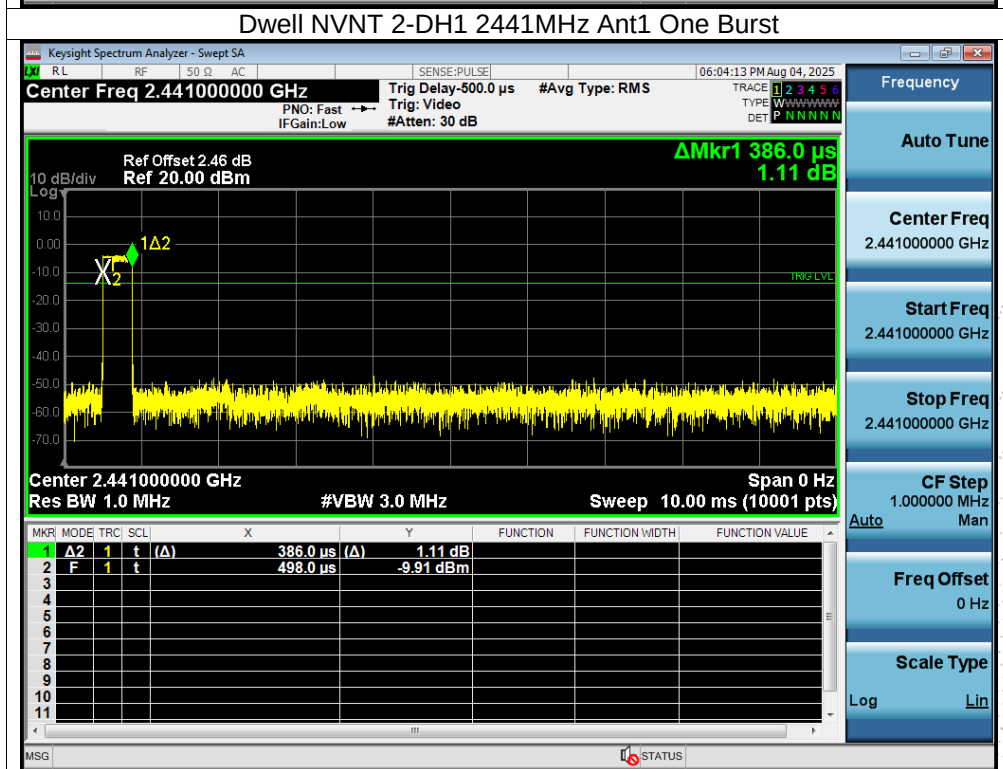
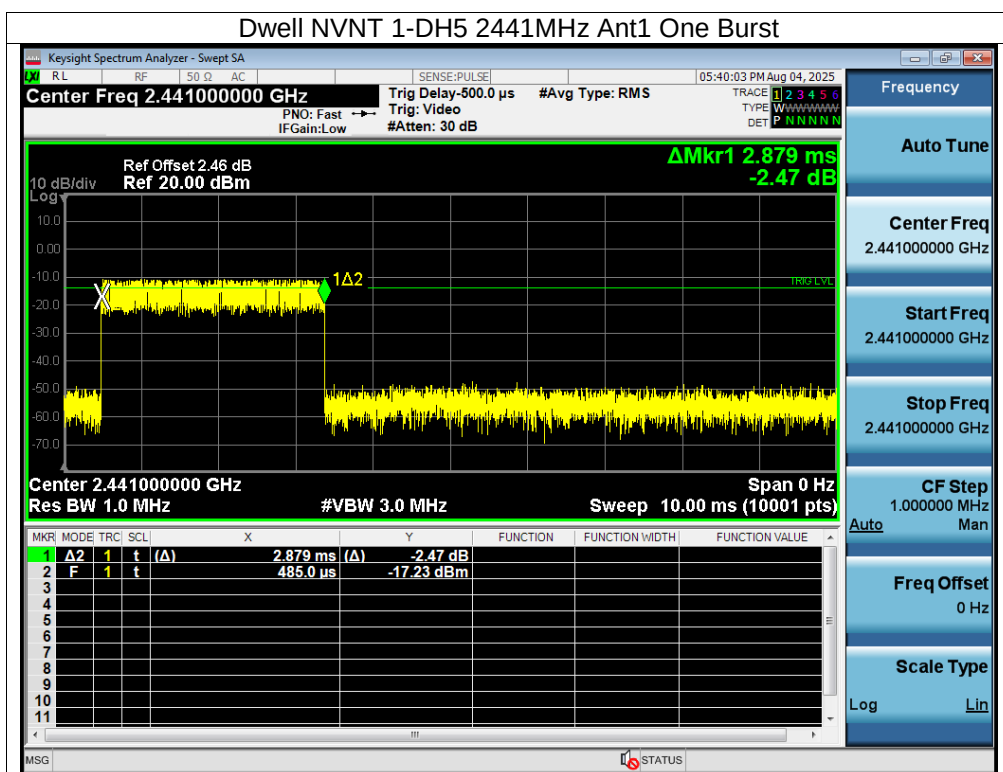
Test Graphs

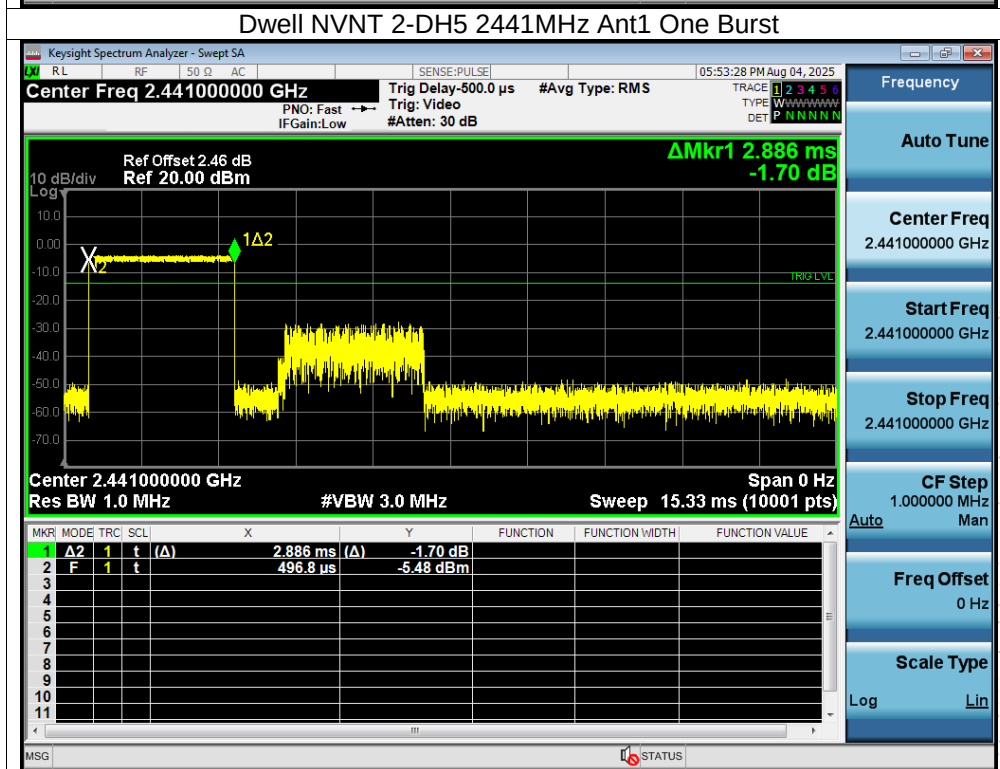
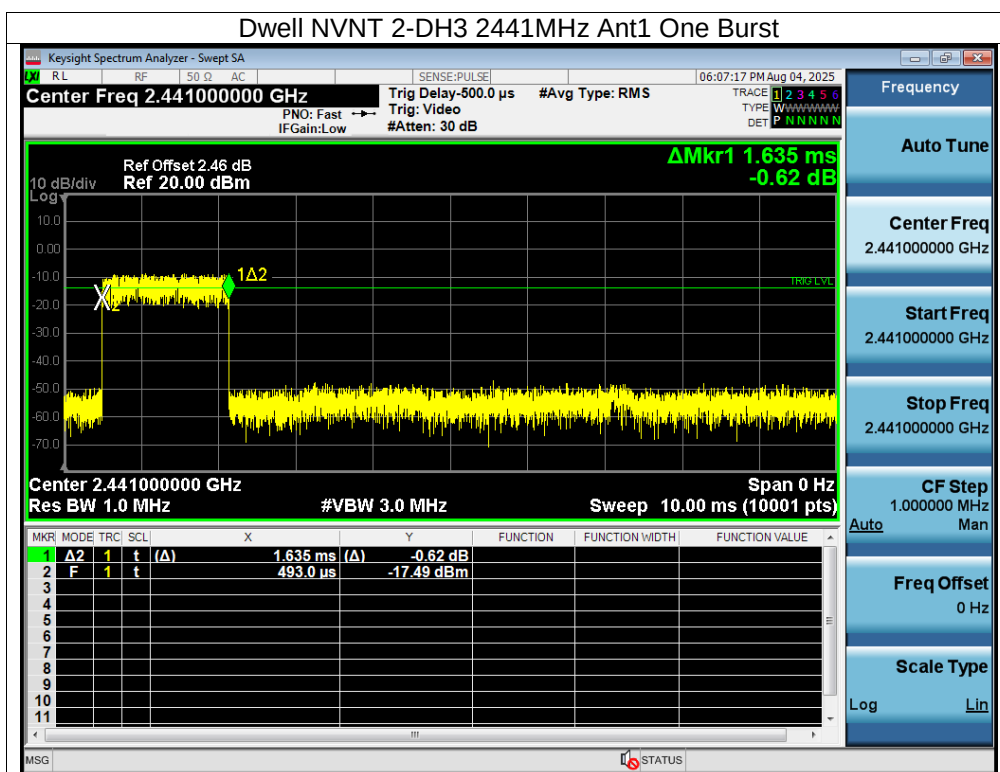
Dwell NVNT 1-DH1 2441MHz Ant1 One Burst

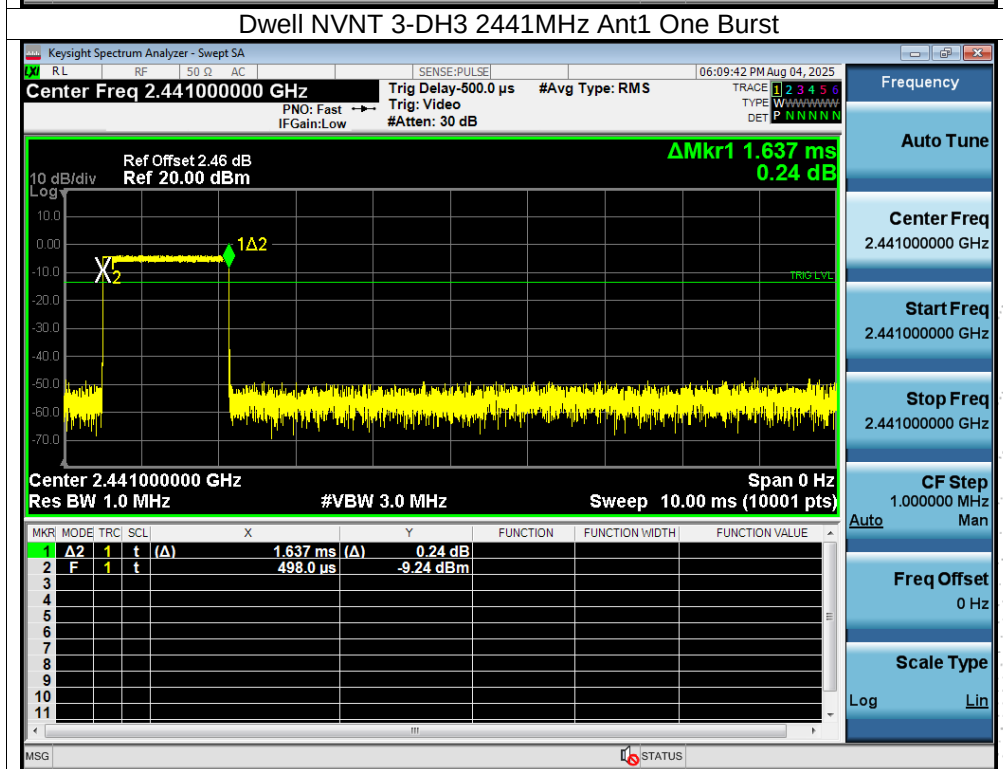
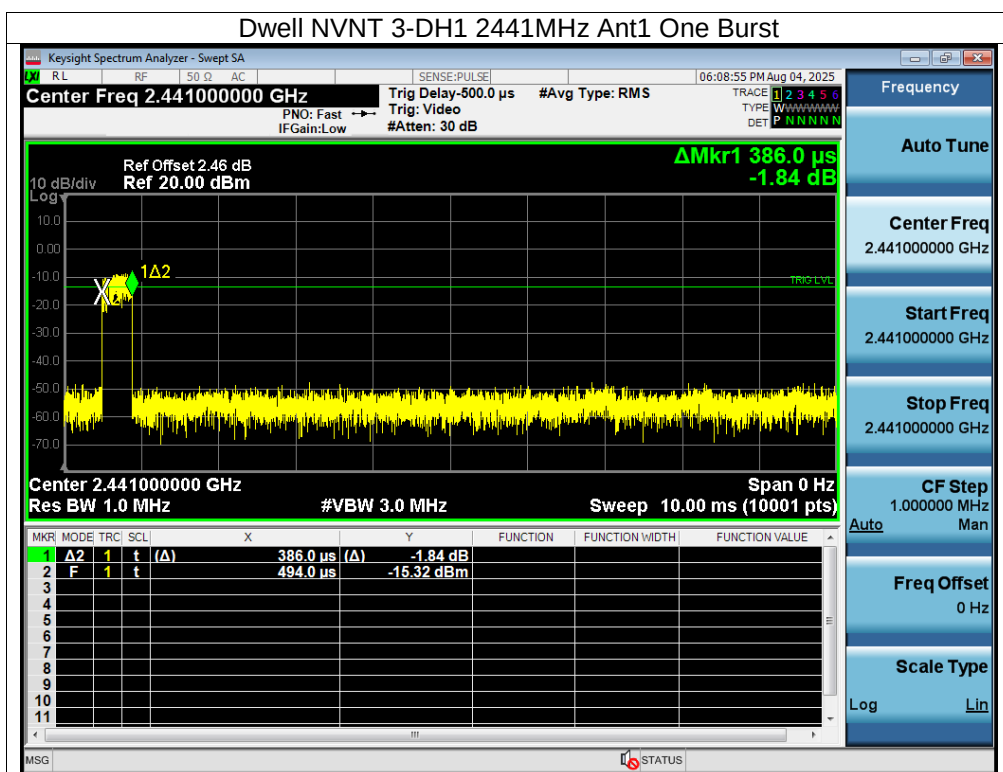


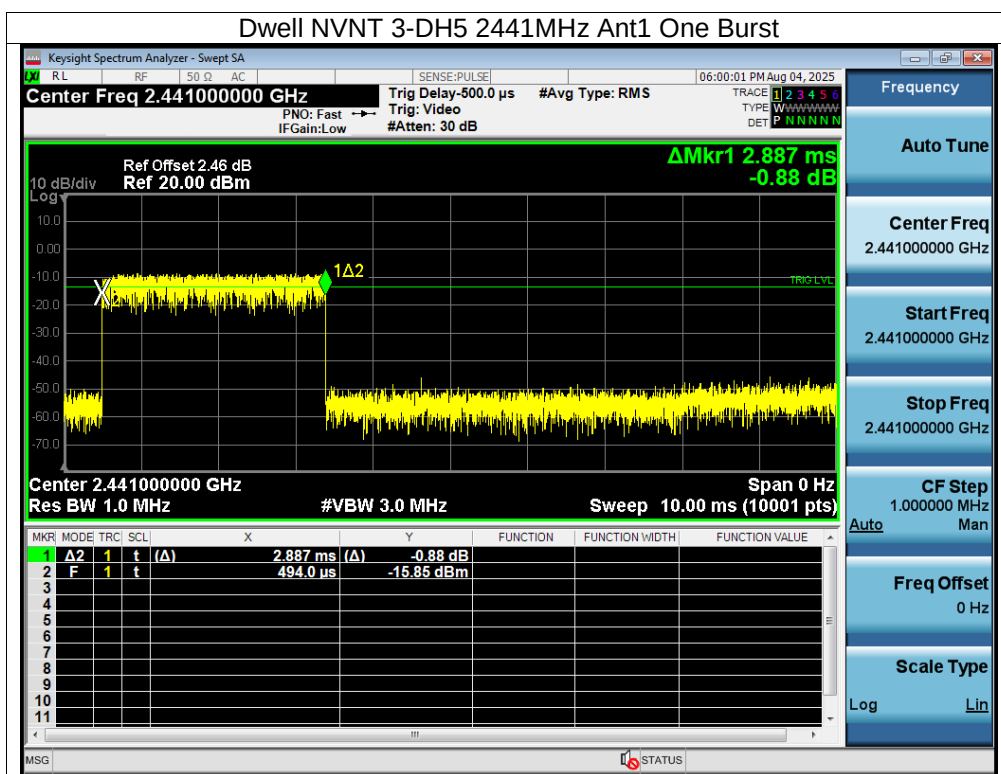
Dwell NVNT 1-DH3 2441MHz Ant1 One Burst











15. Antenna Requirement

15.1 Limit

15.203 requirement: For intentional device, according to 15.203: 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.

15.2 Test Result

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

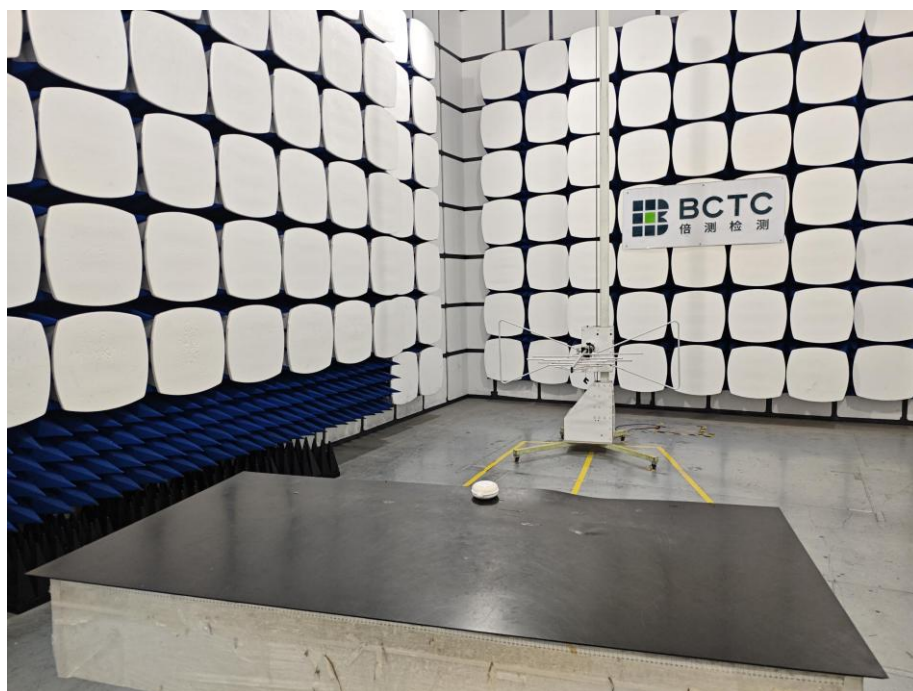
16. EUT Test Setup Photographs

Conducted Emission Measurement Photos



TEST
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Radiated Measurement Photos



STATEMENT

1. The equipment lists are traceable to the national reference standards.
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/IEC17025.
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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***** END *****