

10. 20 dB Bandwidth

10.1 Block Diagram Of Test Setup



10.2 Limit

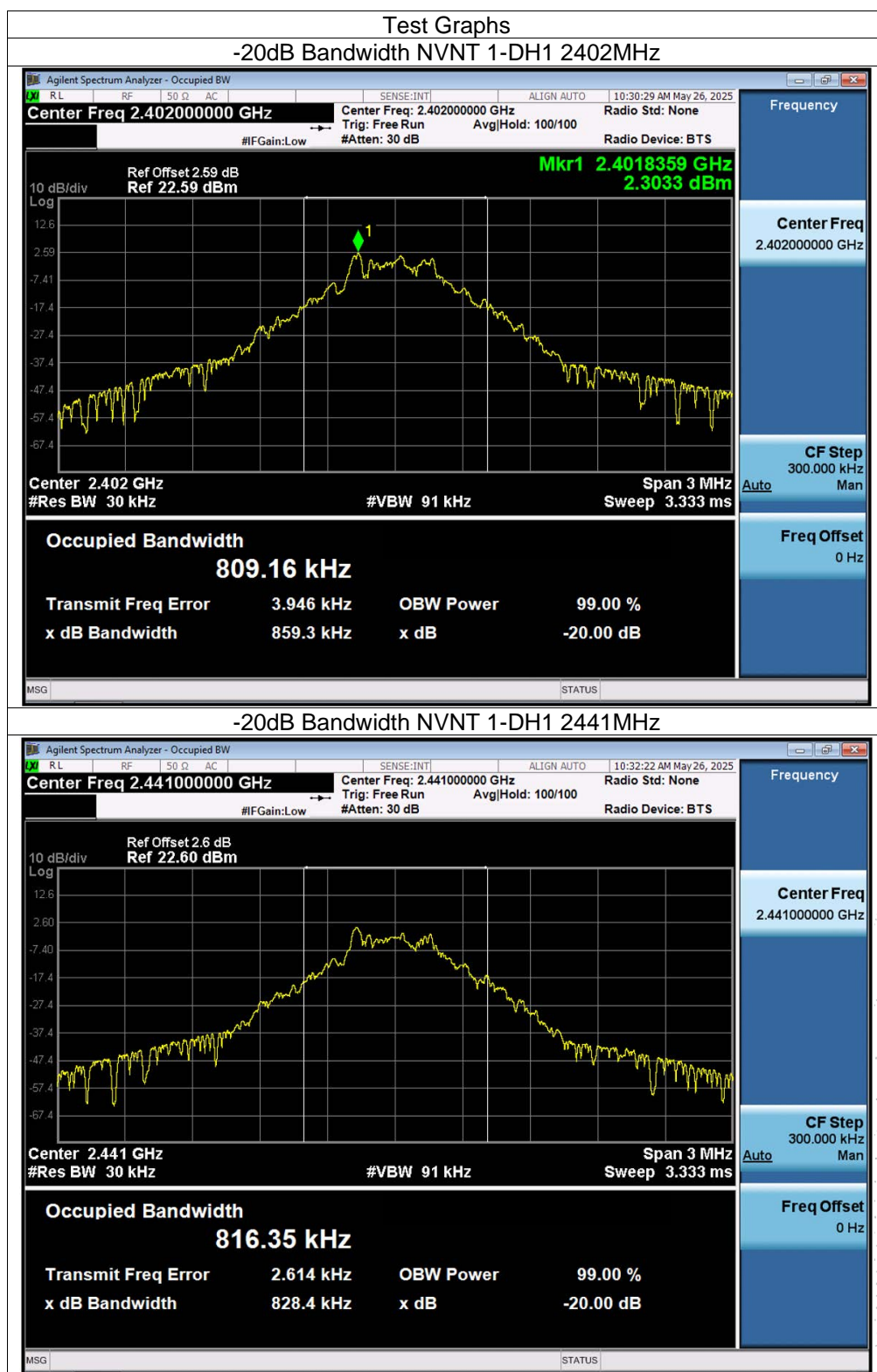
N/A

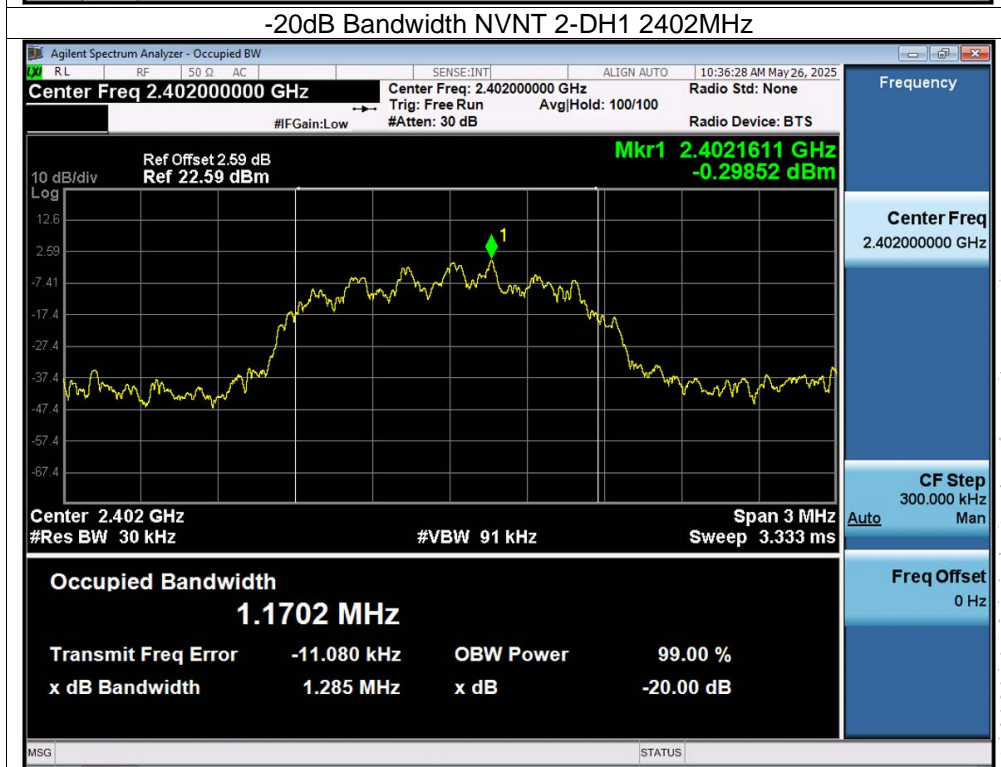
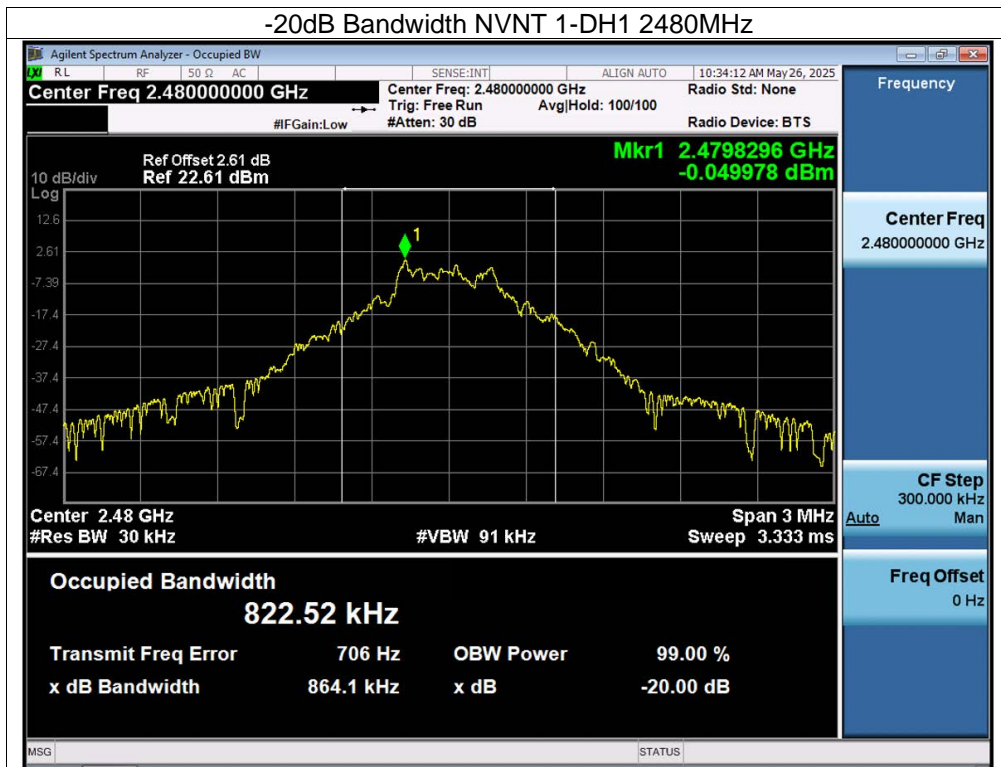
10.3 Test procedure

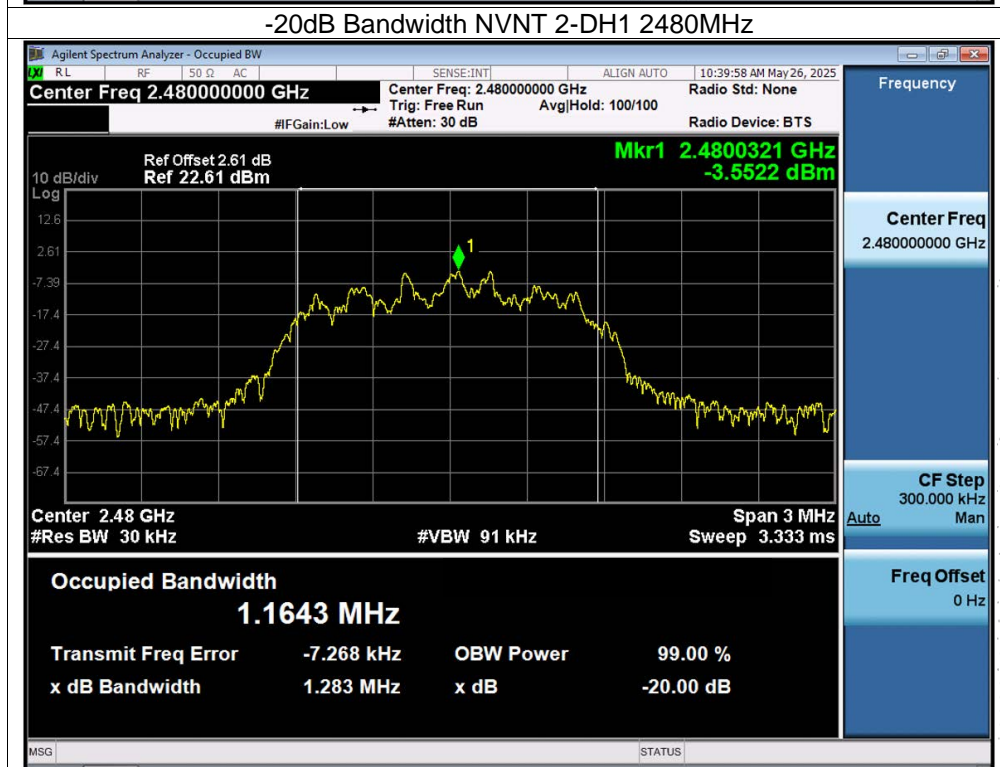
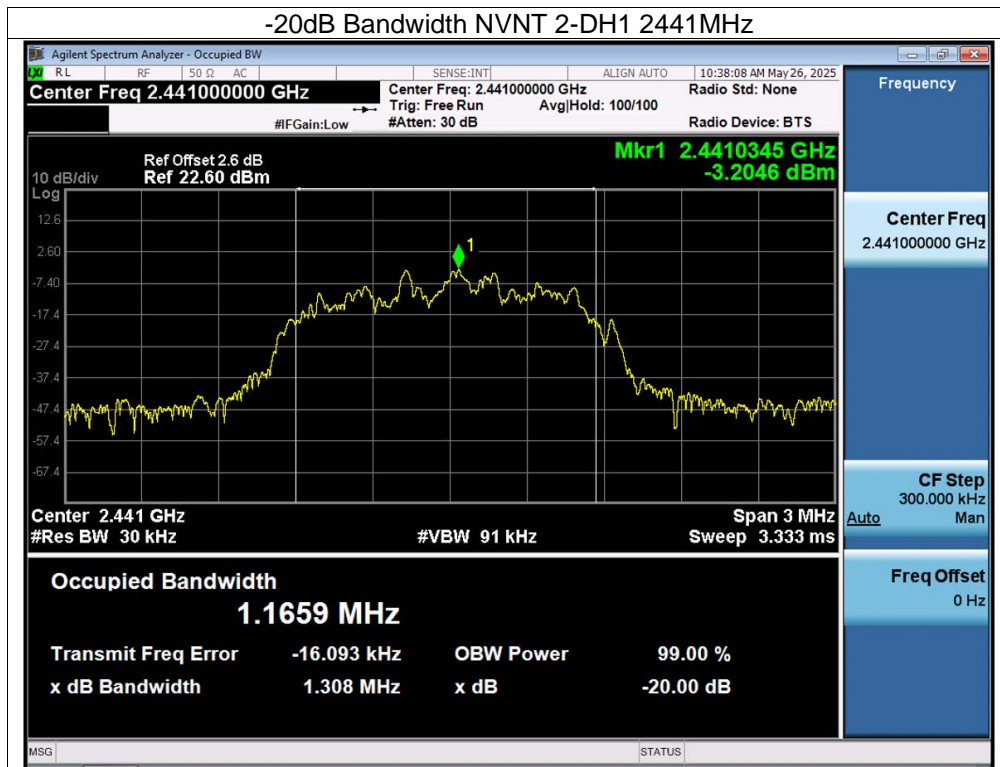
1. Set RBW = 30 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude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

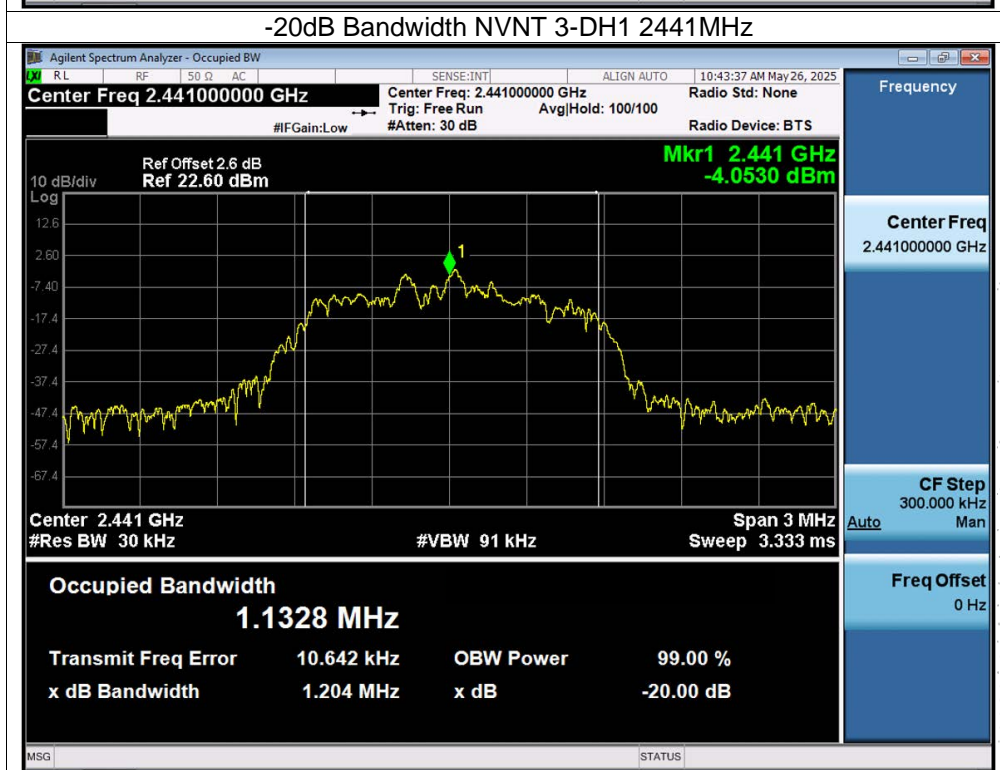
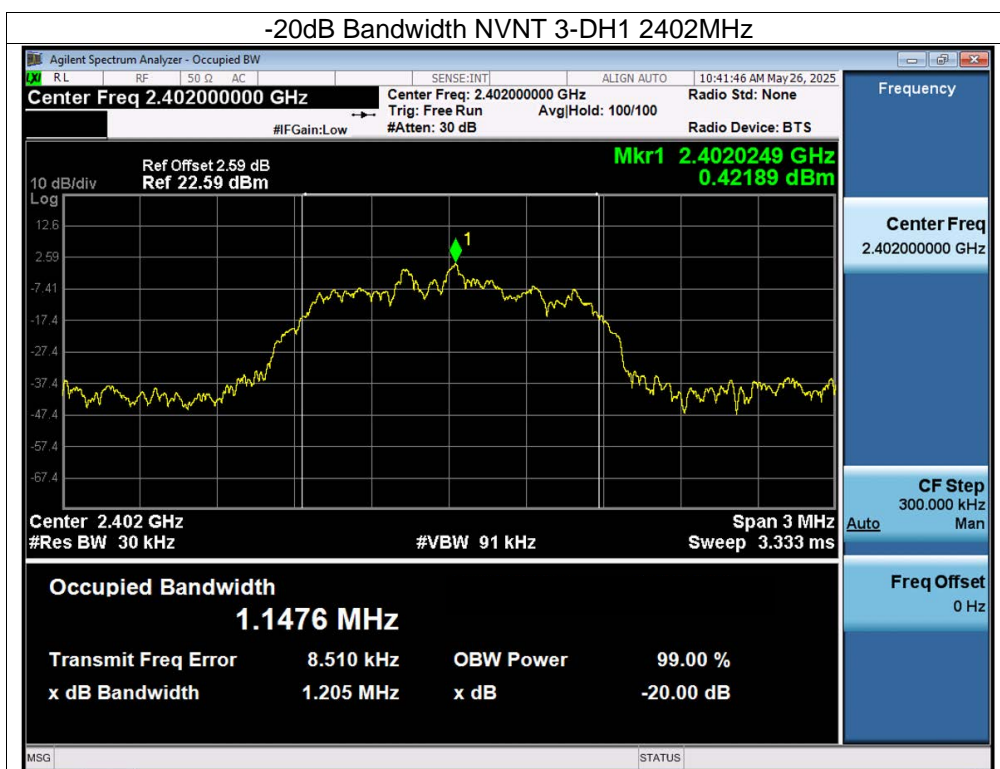
10.4 Test Result

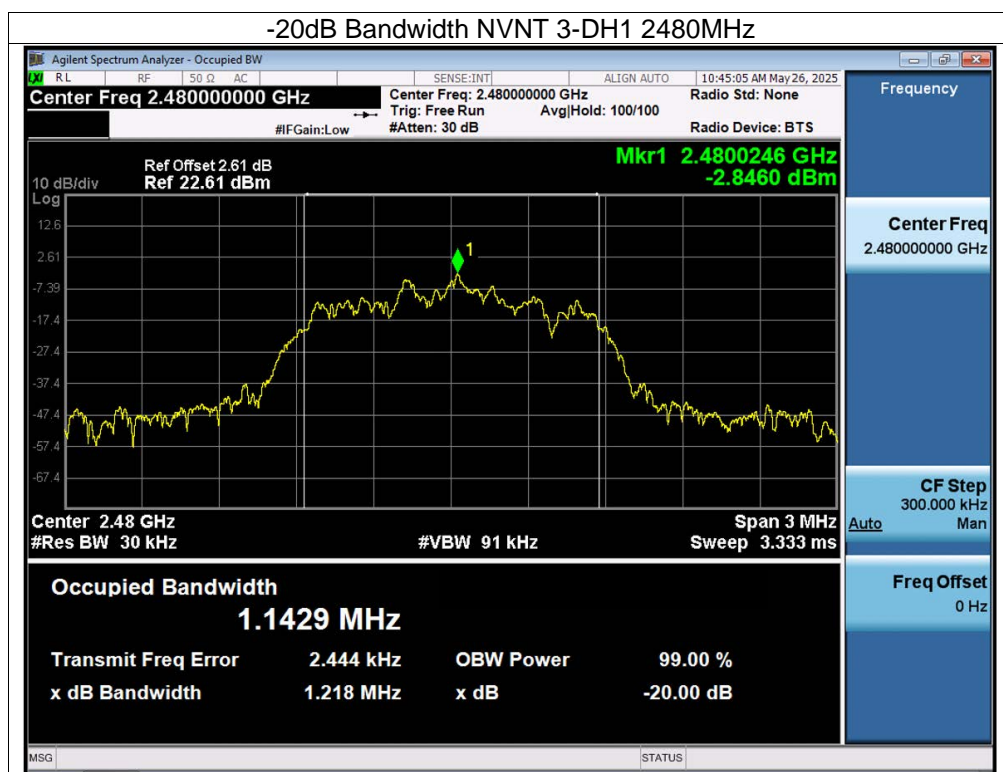
Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	0.859	Pass
NVNT	1-DH1	2441	0.828	Pass
NVNT	1-DH1	2480	0.864	Pass
NVNT	2-DH1	2402	1.285	Pass
NVNT	2-DH1	2441	1.308	Pass
NVNT	2-DH1	2480	1.283	Pass
NVNT	3-DH1	2402	1.205	Pass
NVNT	3-DH1	2441	1.204	Pass
NVNT	3-DH1	2480	1.218	Pass











11. Maximum Peak Output Power

11.1 Block Diagram Of Test Setup



11.2 Limit

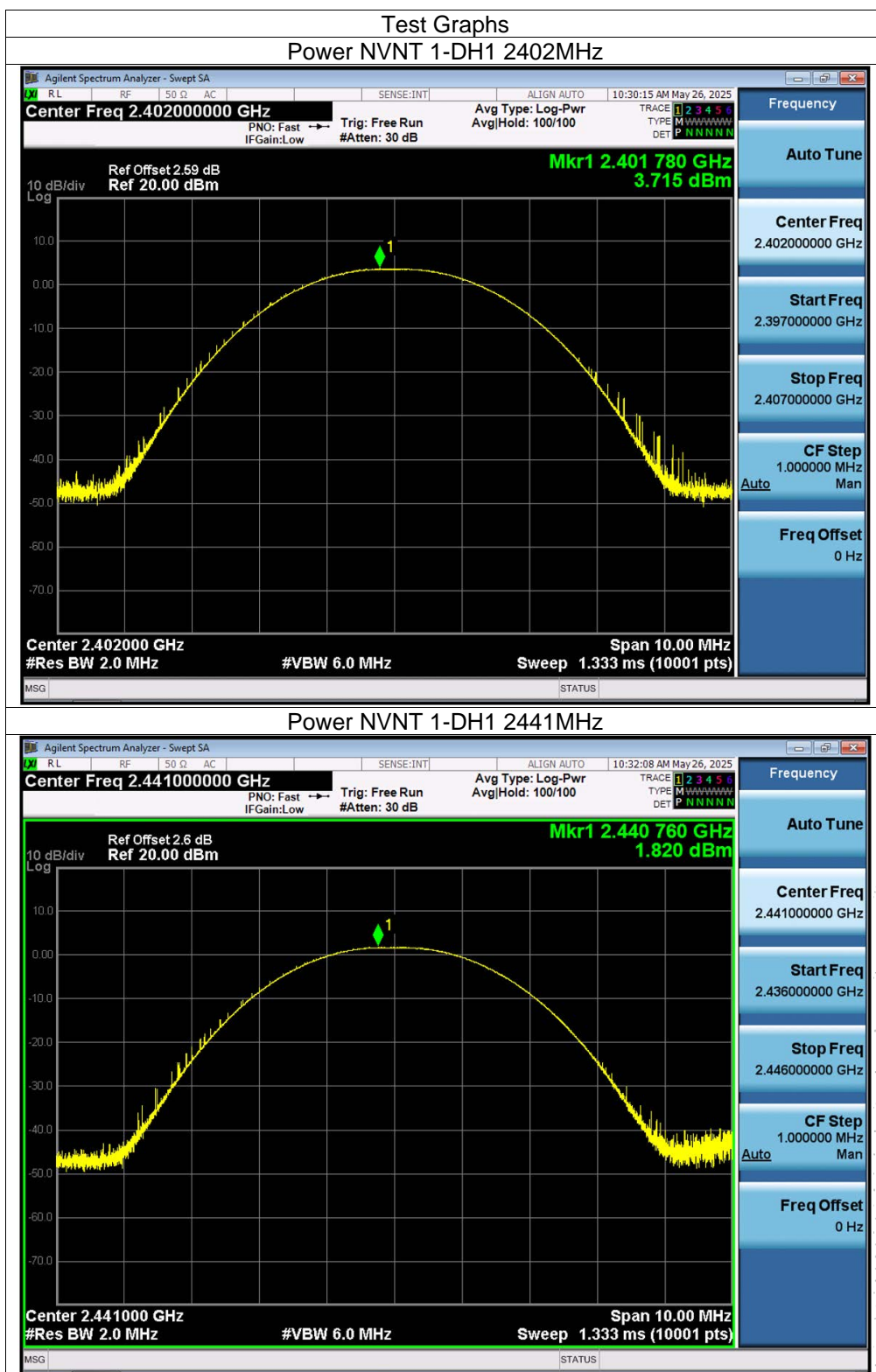
FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(1)	Peak Output Power	0.125 watt or 21dBm	2400-2483.5	PASS

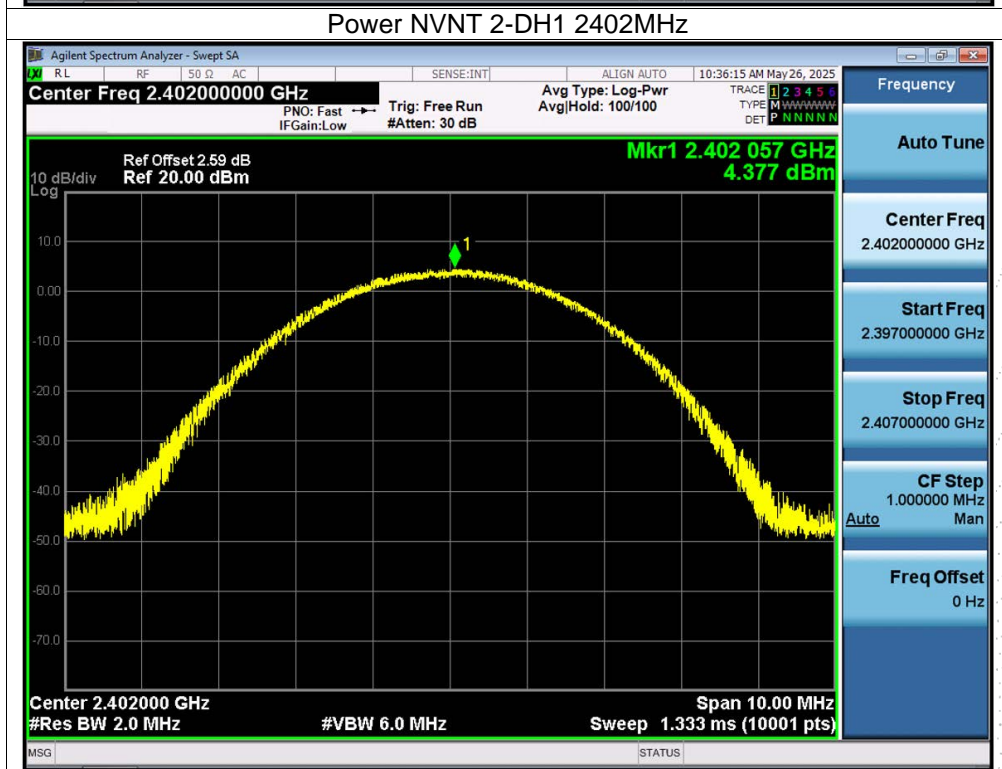
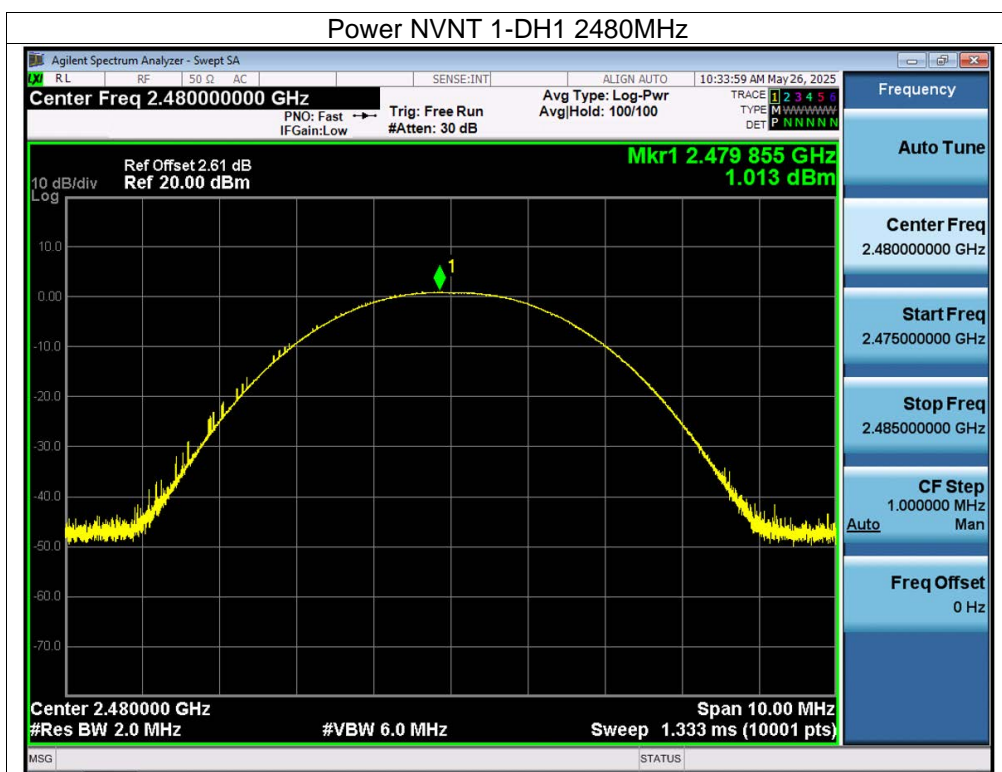
11.3 Test procedure

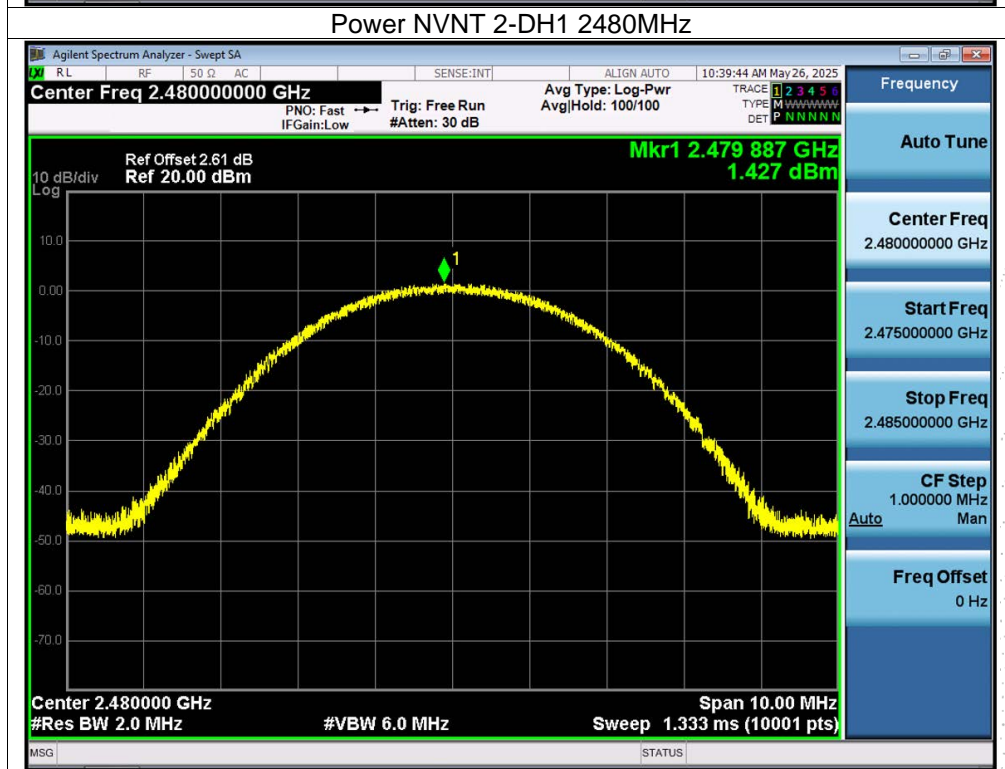
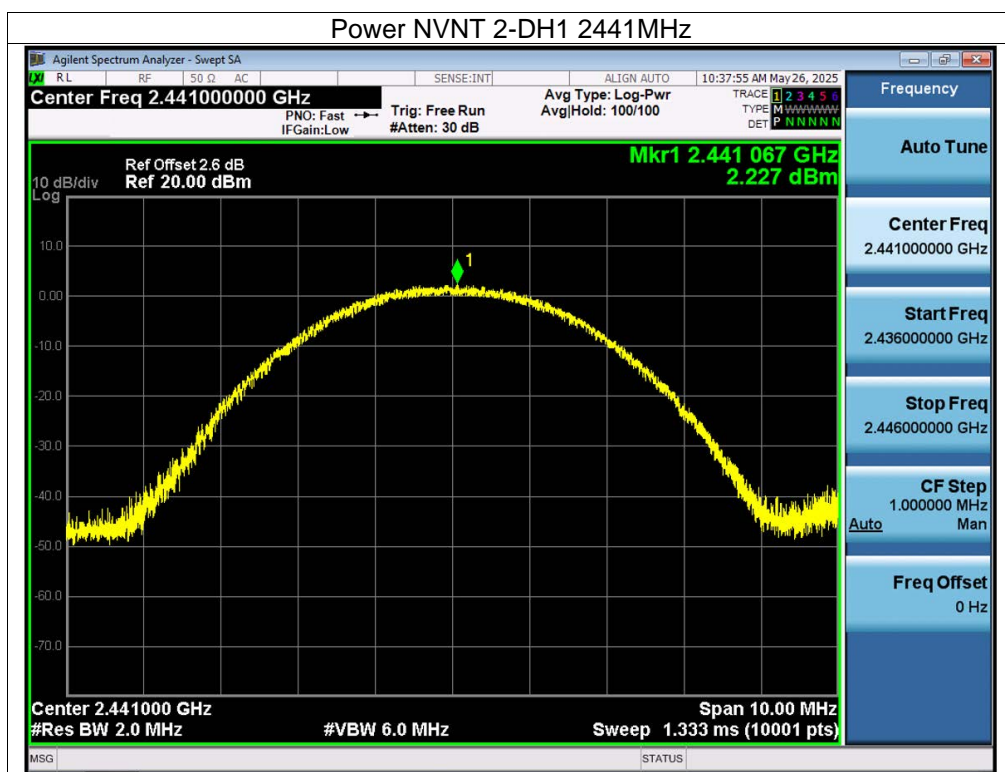
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 2MHz. VBW = 6MHz. Sweep = auto; Detector Function = Peak.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

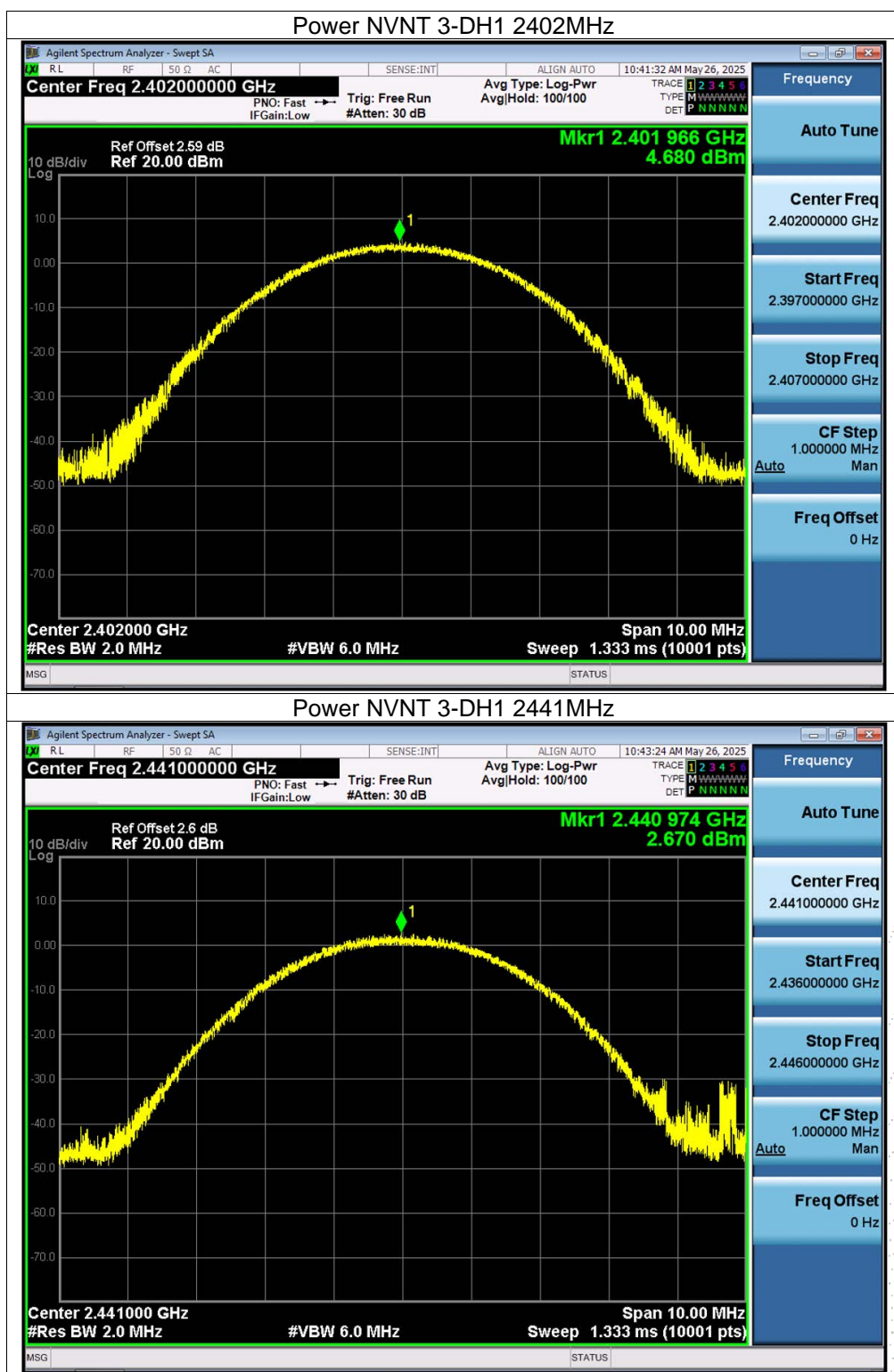
11.4 Test Result

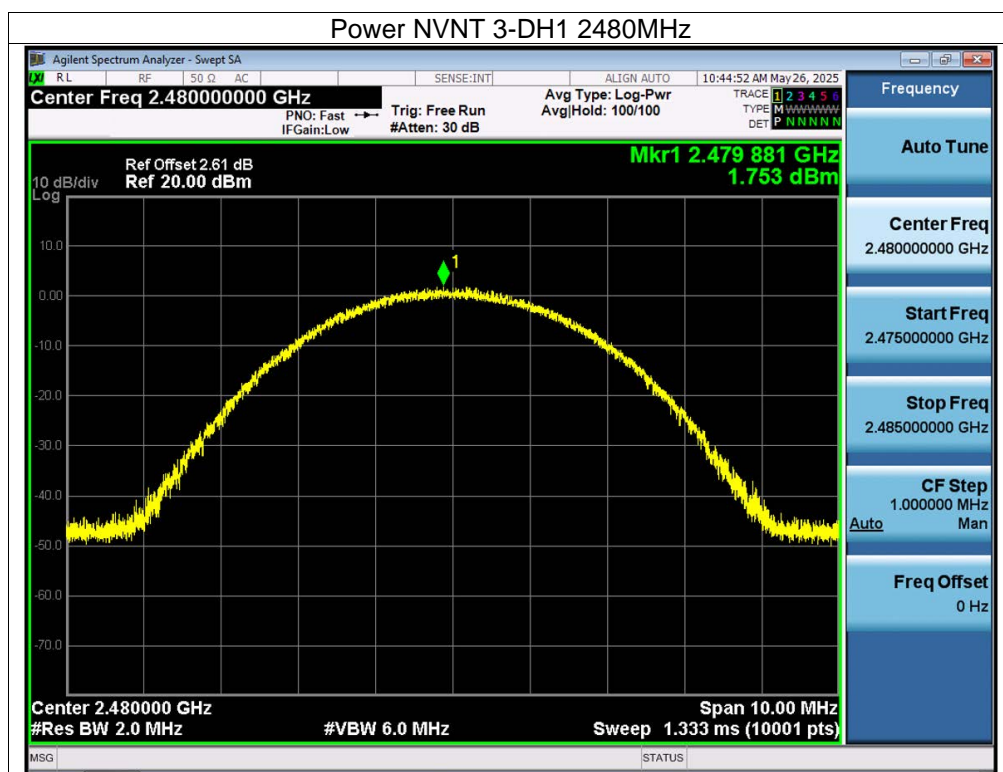
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	3.72	21	Pass
NVNT	1-DH1	2441	1.82	21	Pass
NVNT	1-DH1	2480	1.01	21	Pass
NVNT	2-DH1	2402	4.38	21	Pass
NVNT	2-DH1	2441	2.23	21	Pass
NVNT	2-DH1	2480	1.43	21	Pass
NVNT	3-DH1	2402	4.68	21	Pass
NVNT	3-DH1	2441	2.67	21	Pass
NVNT	3-DH1	2480	1.75	21	Pass





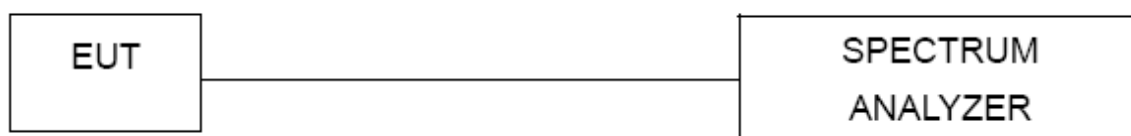






12. Hopping Channel Separation

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

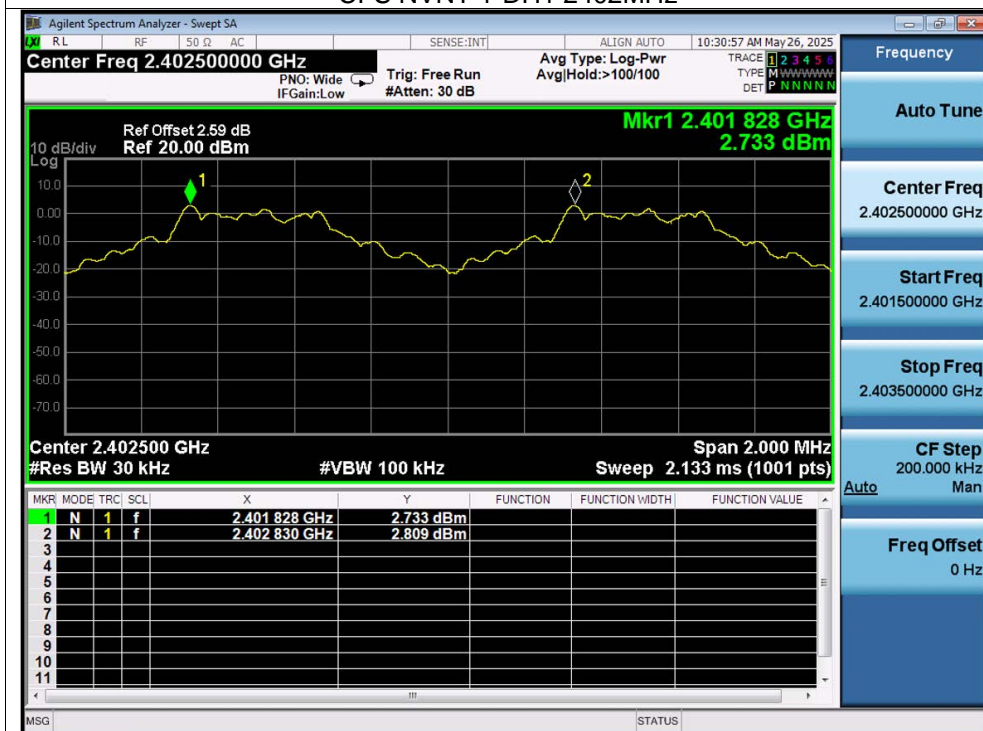
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 30 kHz. VBW = 100 kHz , Span = 2.0MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function 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-DH1	2401.828	2402.83	1.002	0.573	Pass
NVNT	1-DH1	2440.828	2441.826	0.998	0.552	Pass
NVNT	1-DH1	2478.83	2479.828	0.998	0.576	Pass
NVNT	2-DH1	2402.022	2403.022	1	0.857	Pass
NVNT	2-DH1	2441.022	2442.024	1.002	0.872	Pass
NVNT	2-DH1	2479.022	2480.022	1	0.855	Pass
NVNT	3-DH1	2402.024	2403.022	0.998	0.803	Pass
NVNT	3-DH1	2441.02	2442.022	1.002	0.803	Pass
NVNT	3-DH1	2479.024	2480.022	0.998	0.812	Pass

Test Graphs

CFS NVNT 1-DH1 2402MHz



CFS NVNT 1-DH1 2441MHz

