



# Appendix A

## RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth Headset

Test Model: U9-MAX

### Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>Nick Peng</i> Nick Peng
Supervised by:	<i>Ling Zhu</i> Ling Zhu





## A.1 -20dB Bandwidth

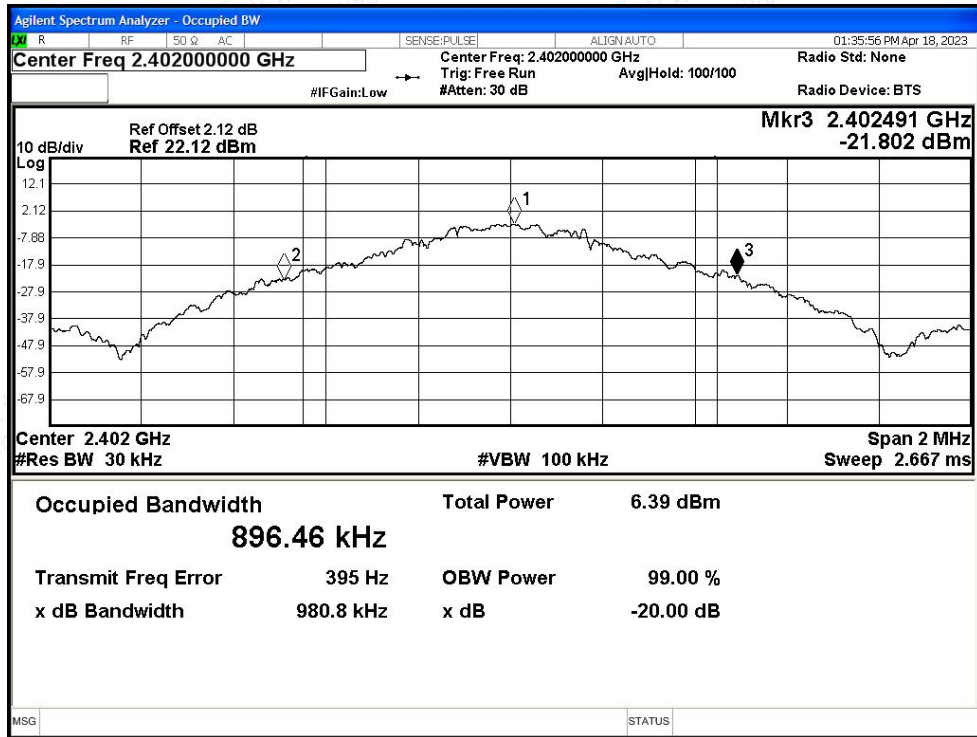
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.981	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.028	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.03	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.283	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.304	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.27	N/A	Pass



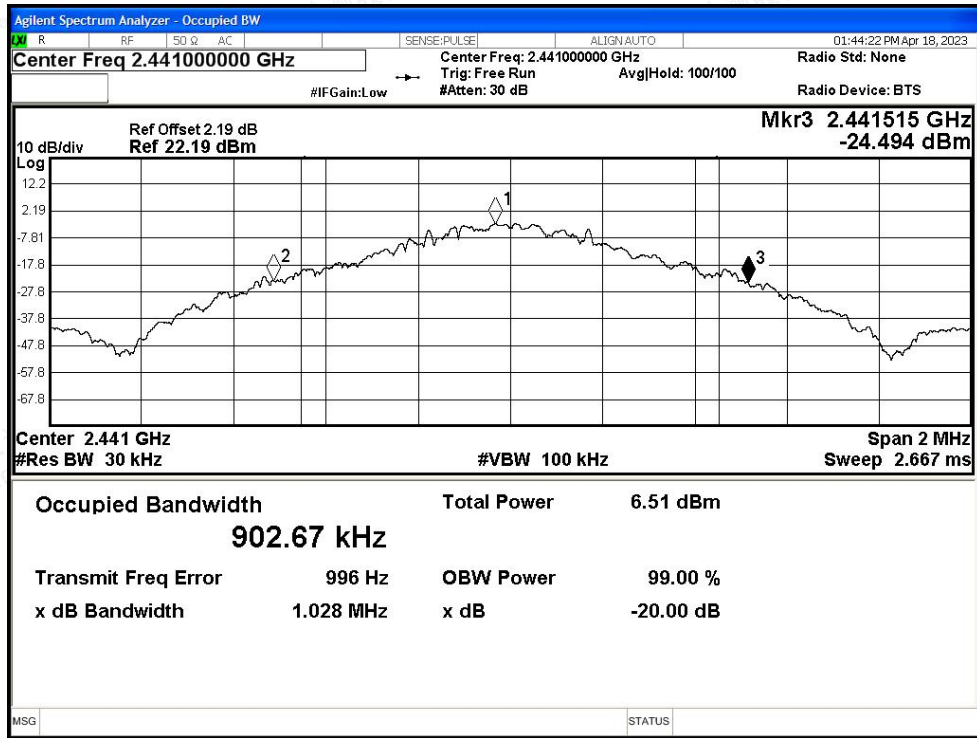


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

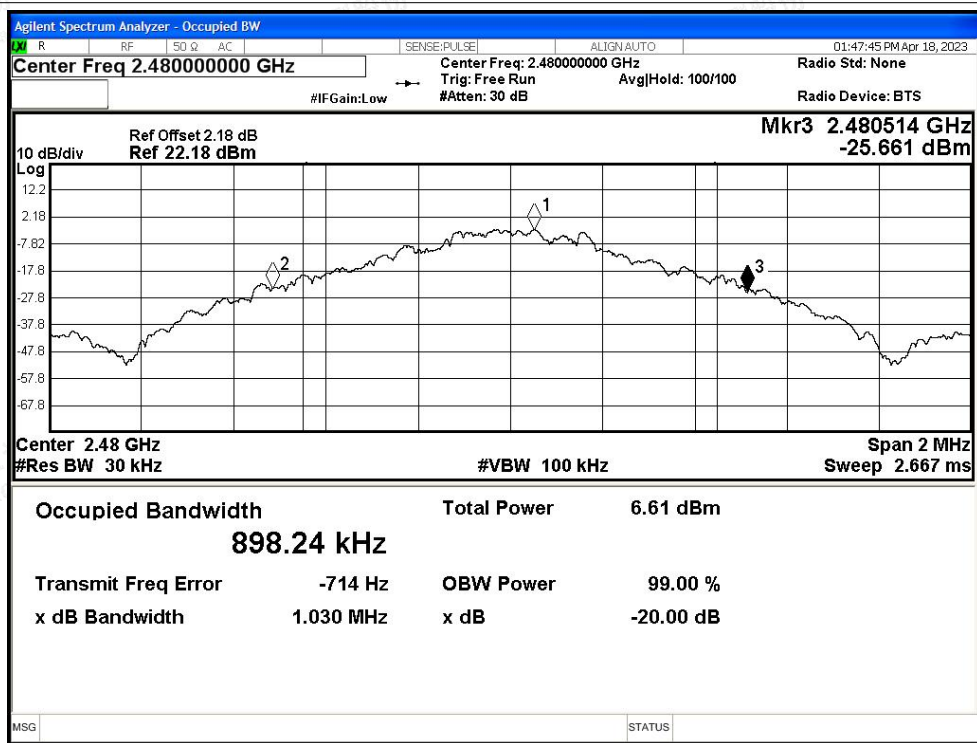


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

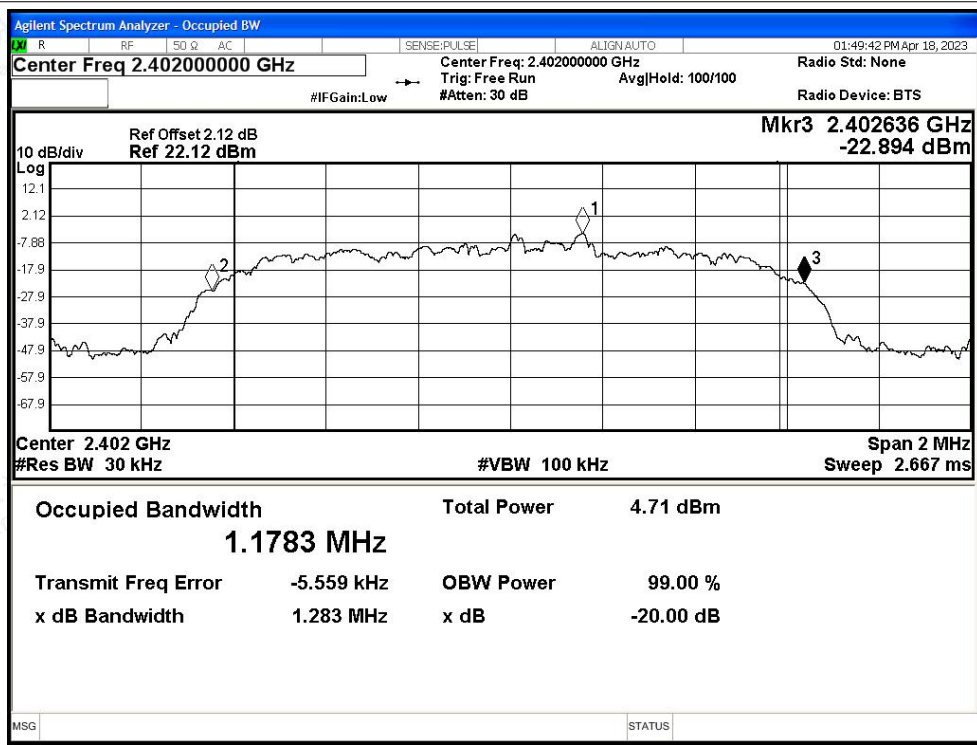




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

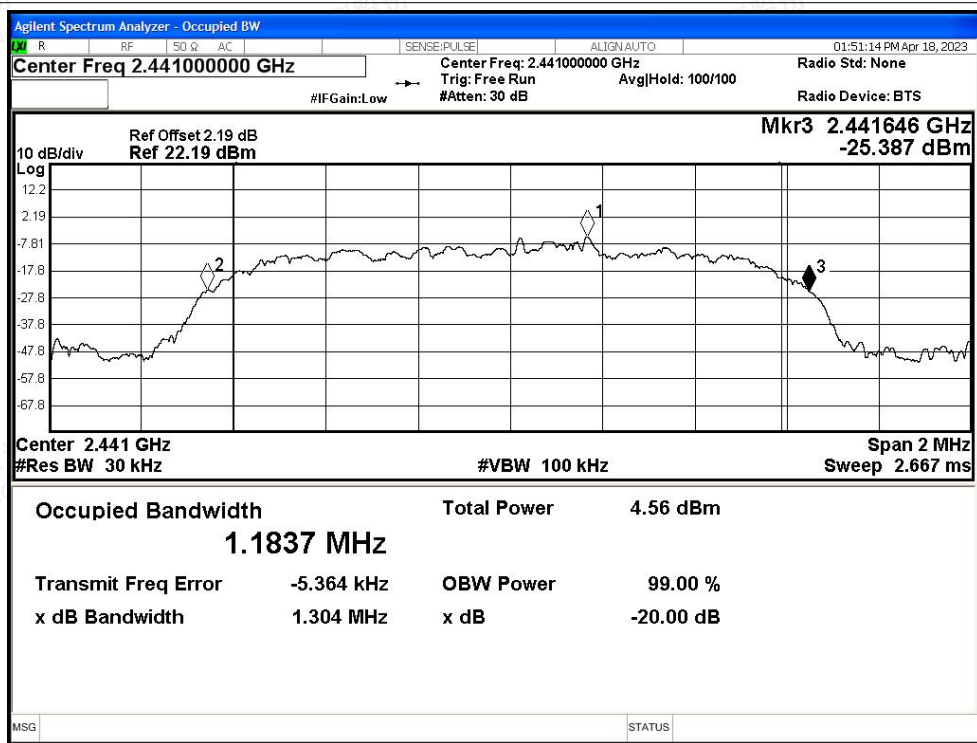


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

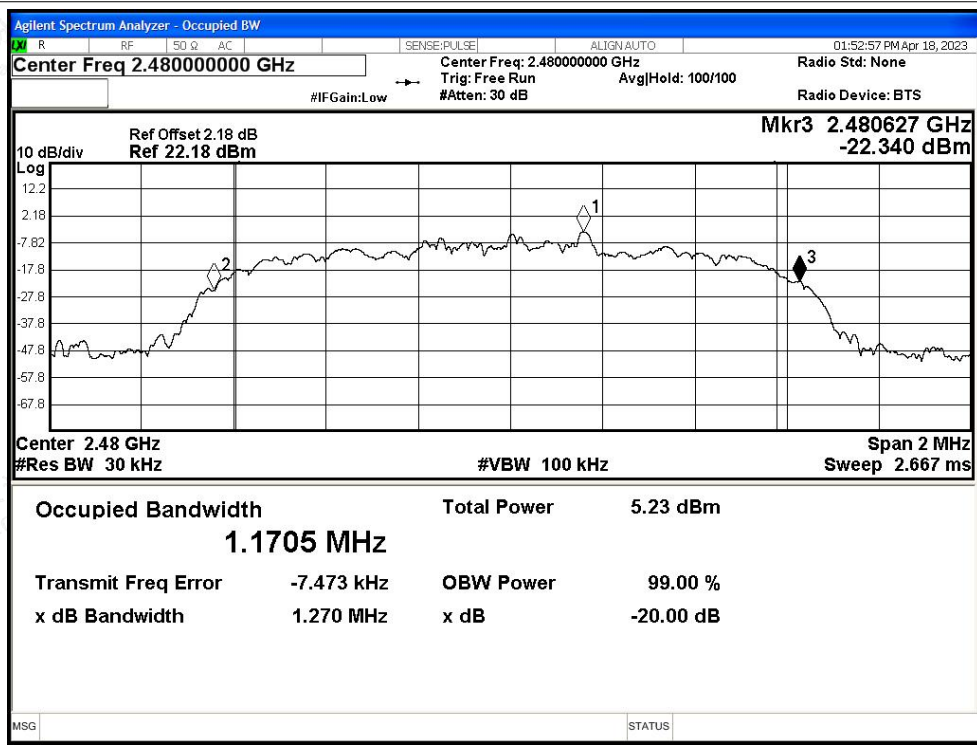




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





## A.2 Maximum Conducted Output Power

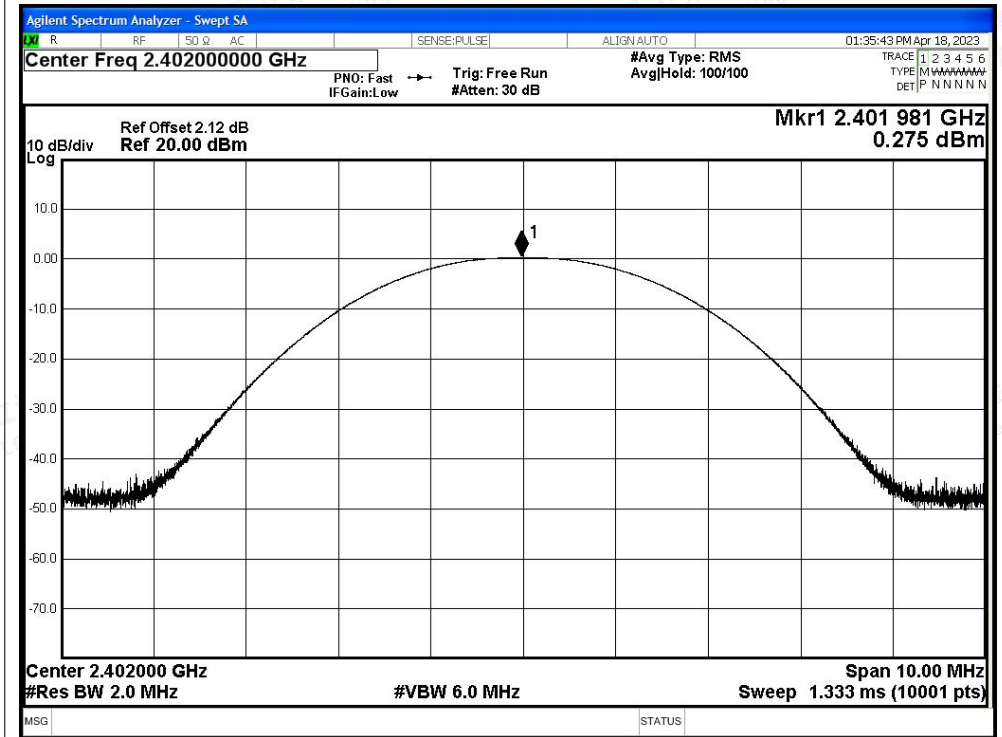
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.28	21	Pass
NVNT	1-DH5	2441	Ant1	0.45	21	Pass
NVNT	1-DH5	2480	Ant1	0.47	21	Pass
NVNT	2-DH5	2402	Ant1	0.02	21	Pass
NVNT	2-DH5	2441	Ant1	0.18	21	Pass
NVNT	2-DH5	2480	Ant1	0.24	21	Pass



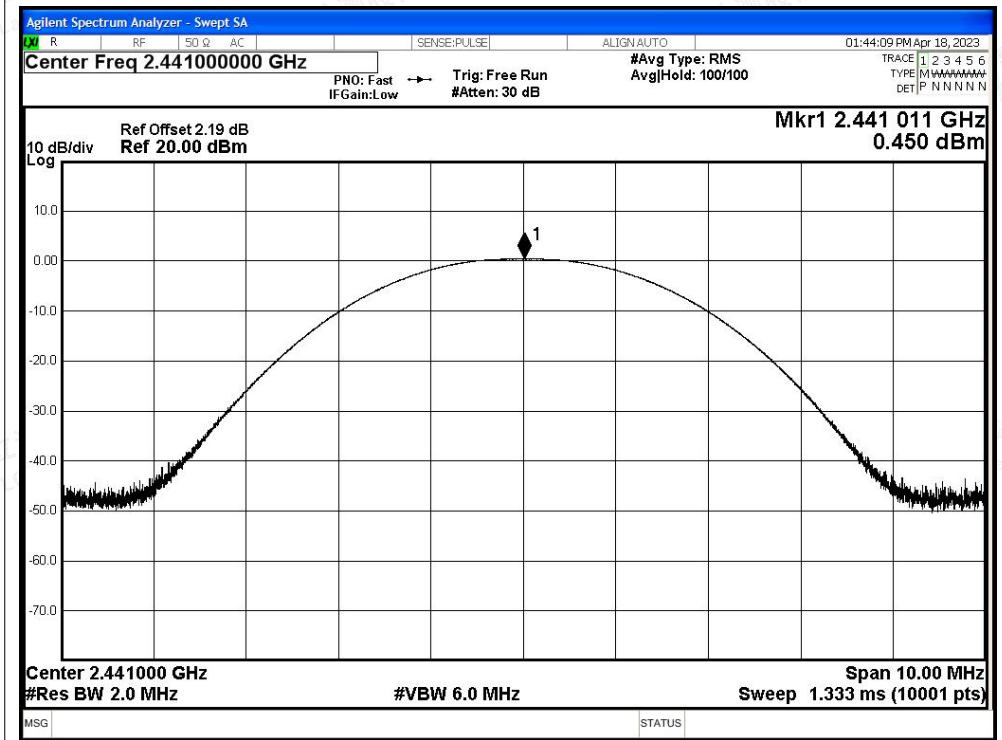


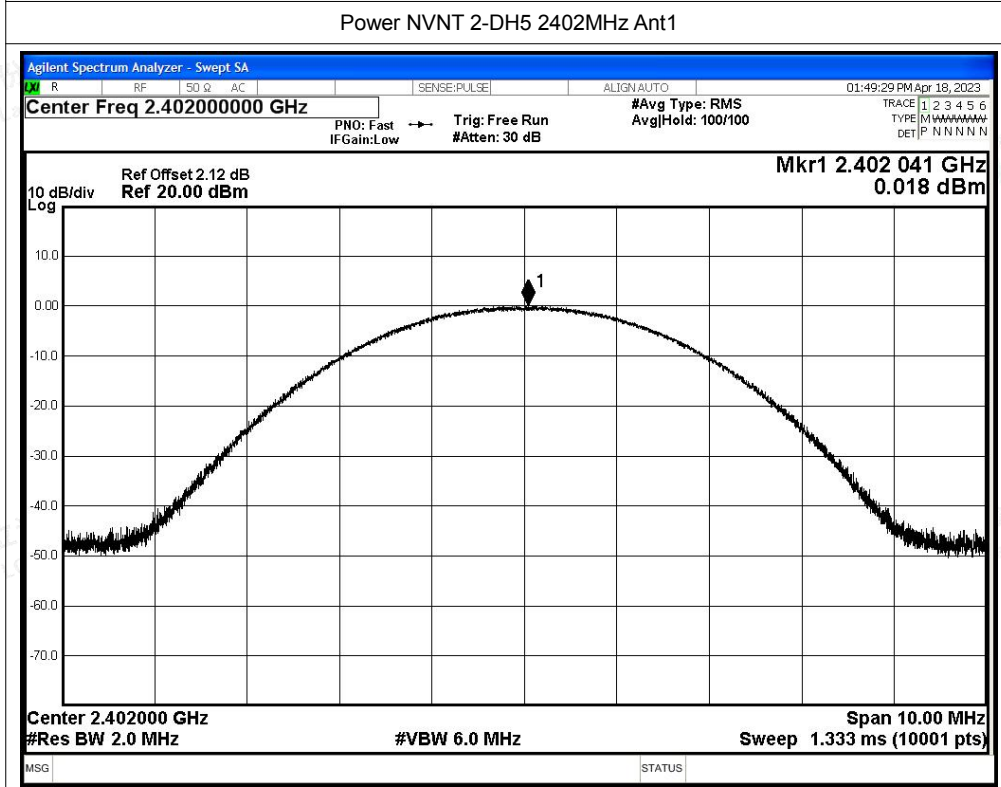
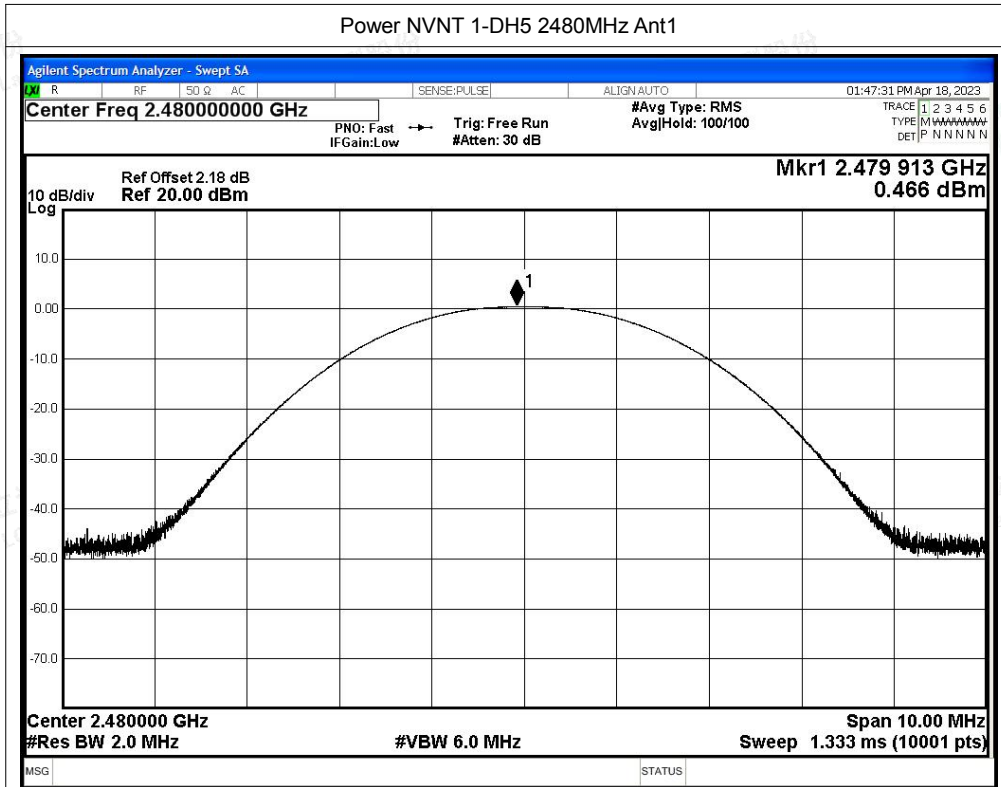
Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

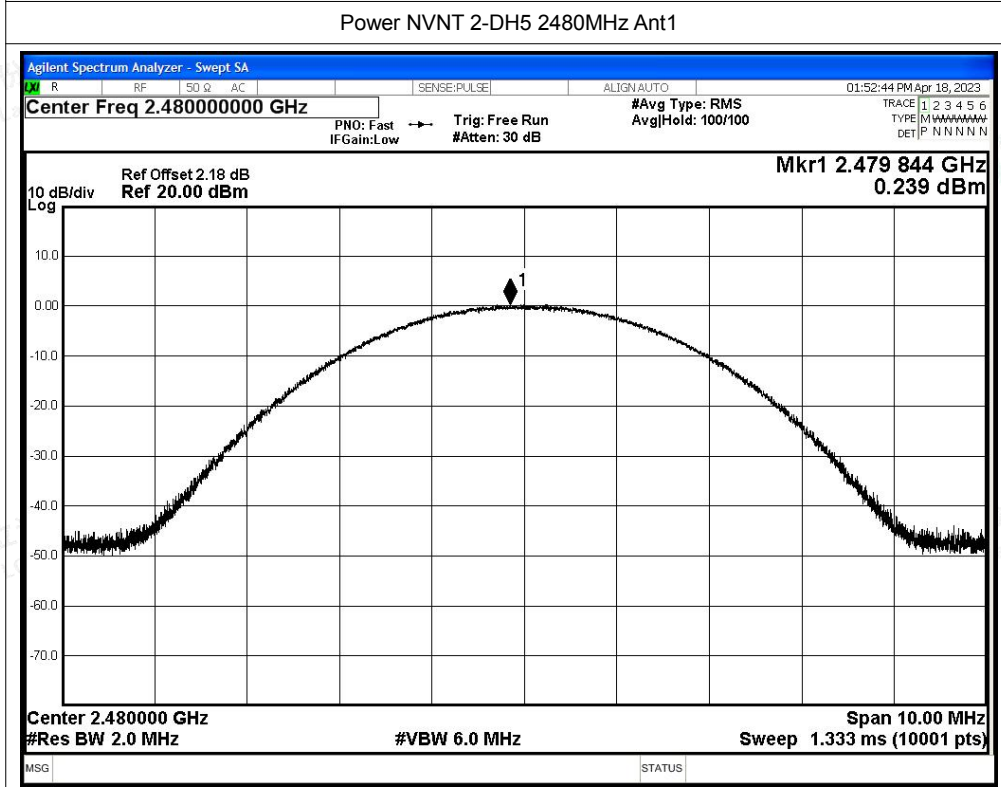
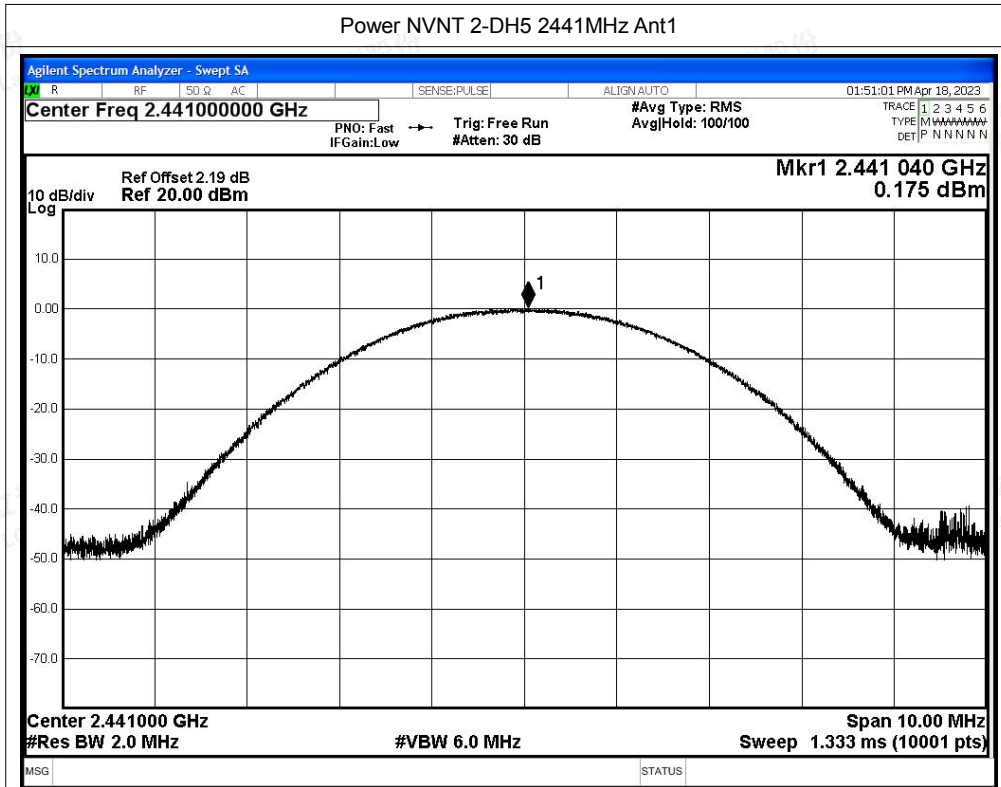


Power NVNT 1-DH5 2441MHz Ant1











### A.3 Carrier Frequencies Separation

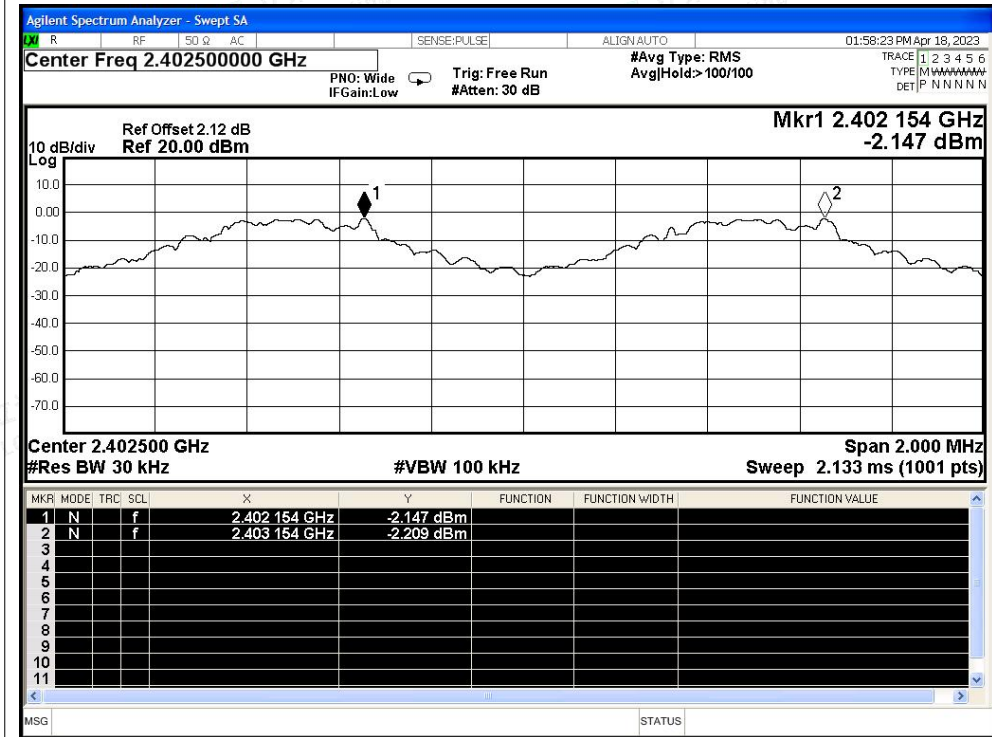
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.154	2403.154	1	0.687	Pass
NVNT	2-DH5	Ant1	2402.156	2403.012	0.856	0.869	Pass



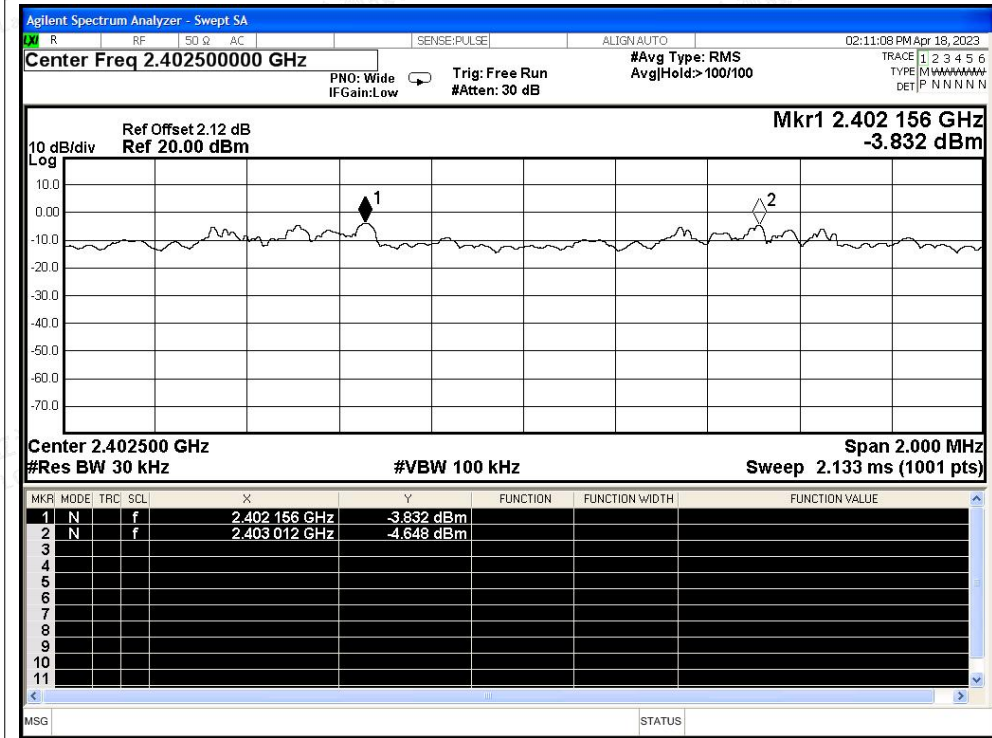


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1





### A.4 Dwell Time

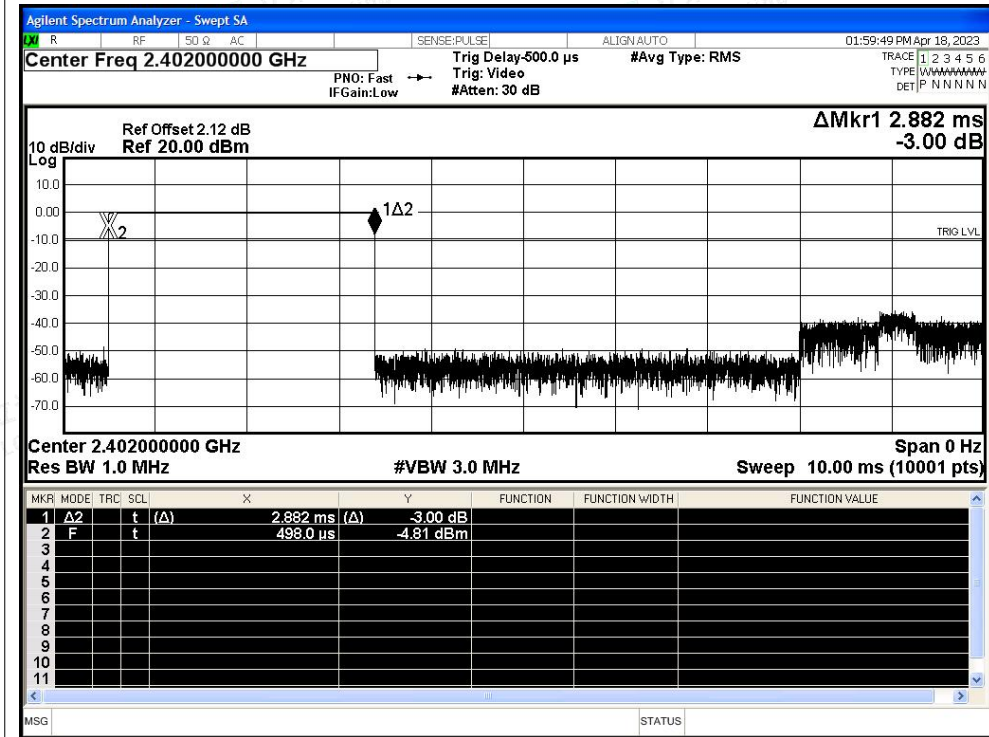
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	259.38	90	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	253.44	88	31600	400	Pass



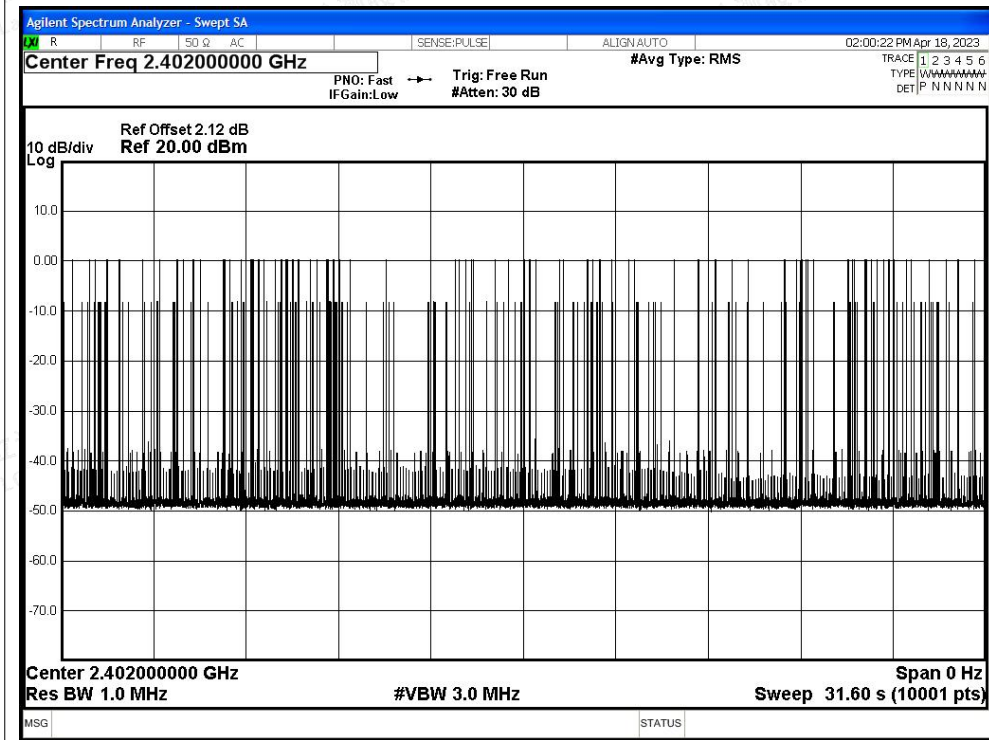


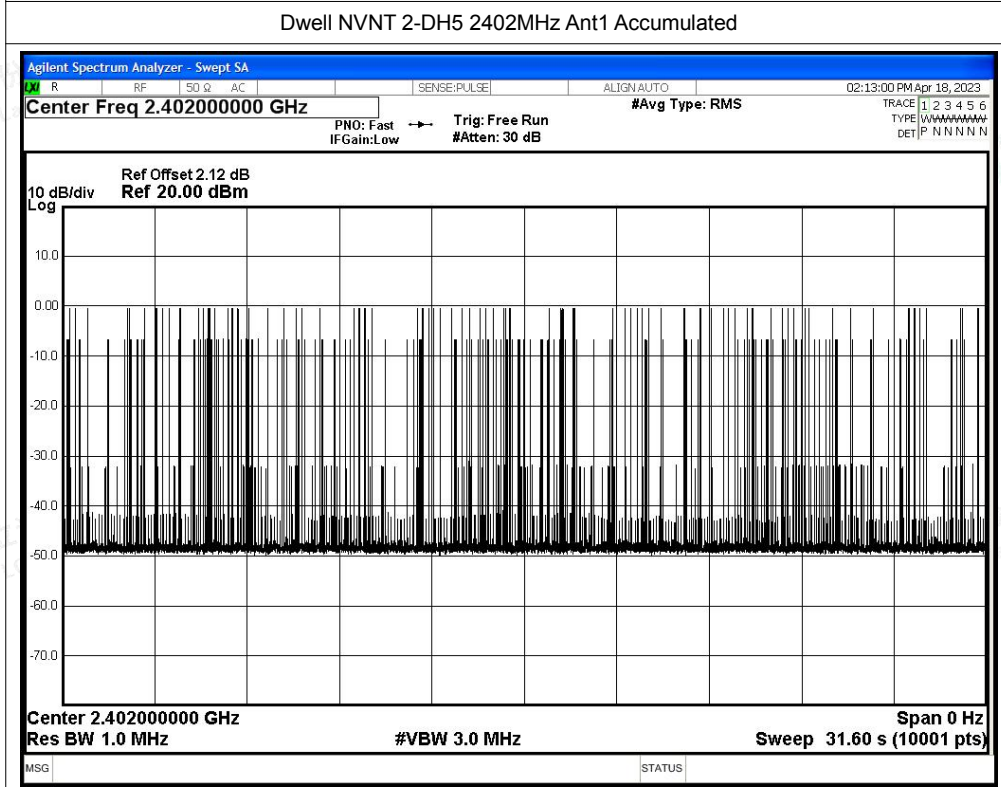
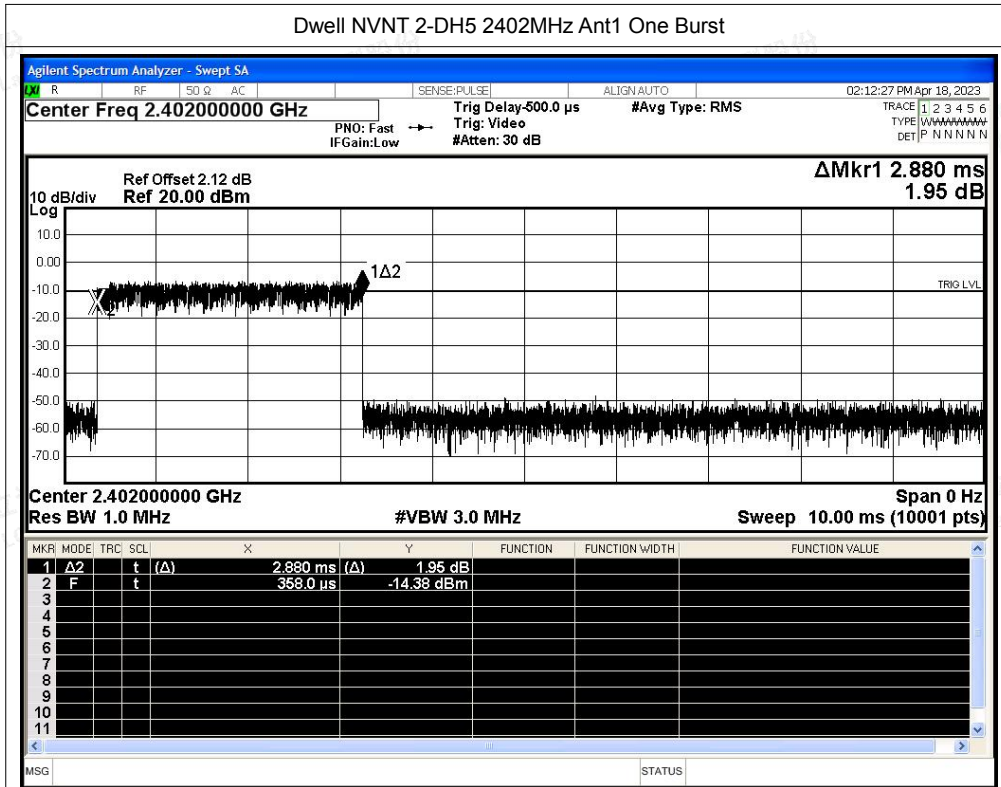
Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated







## A.5 Number of Hopping Channel

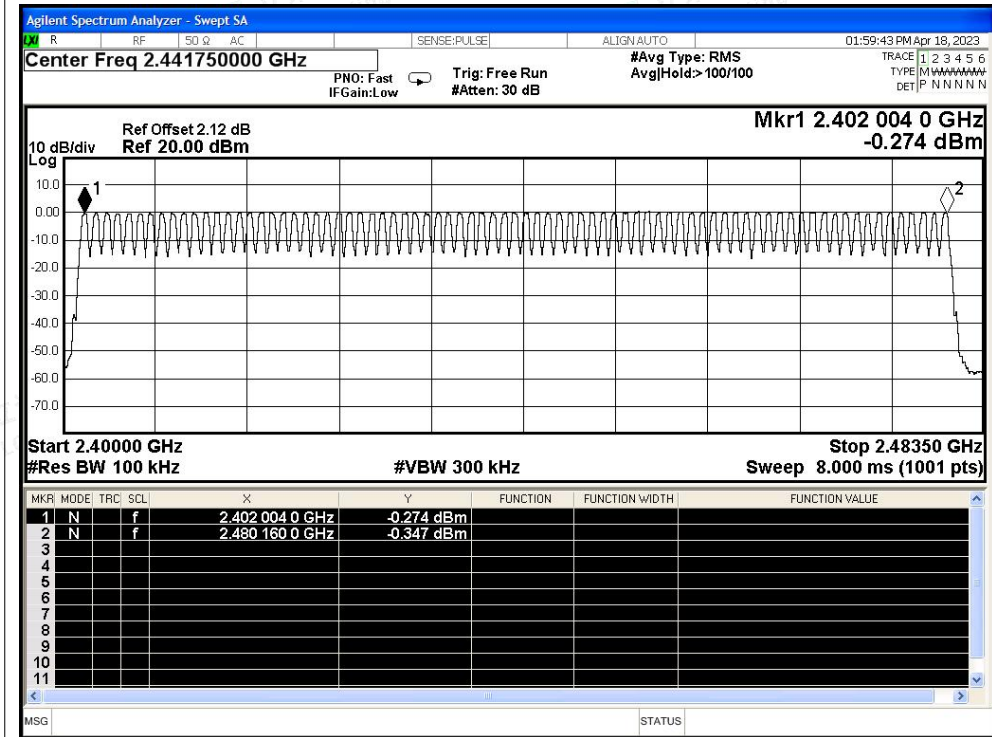
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass



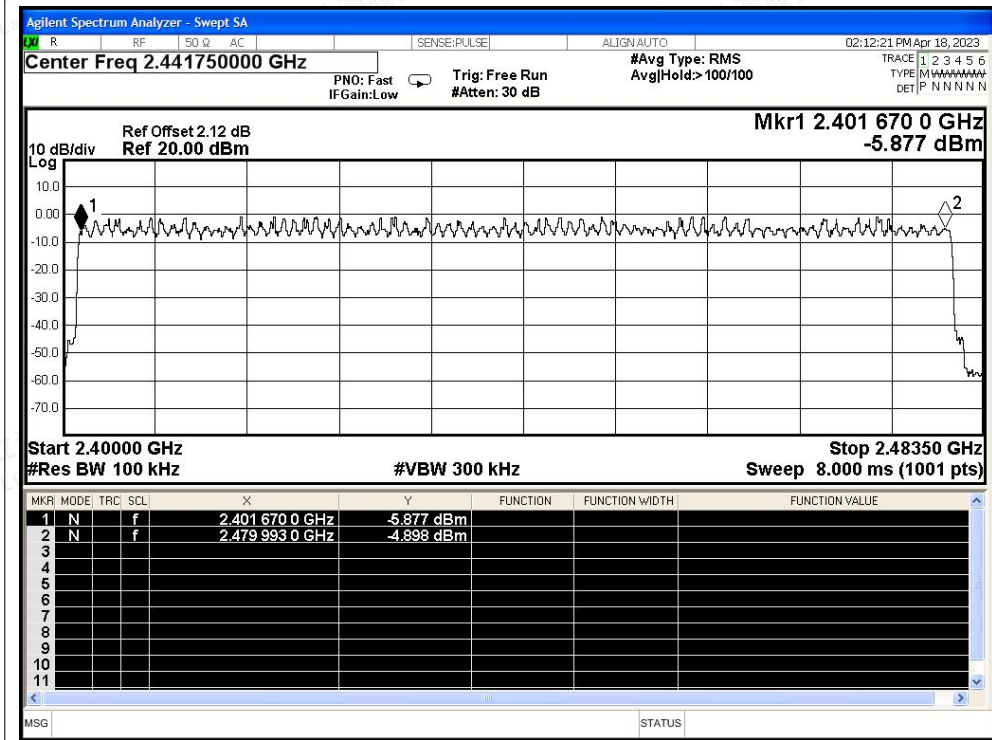


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1







## A.6 Band Edge

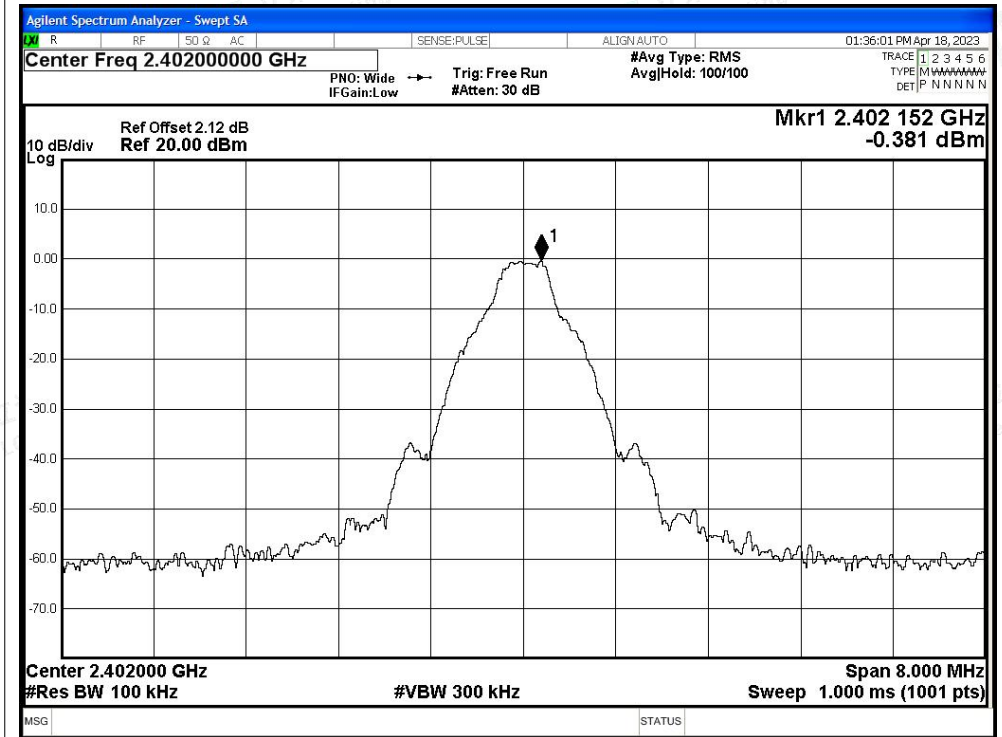
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.78	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.12	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-55.04	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-54.96	-20	Pass



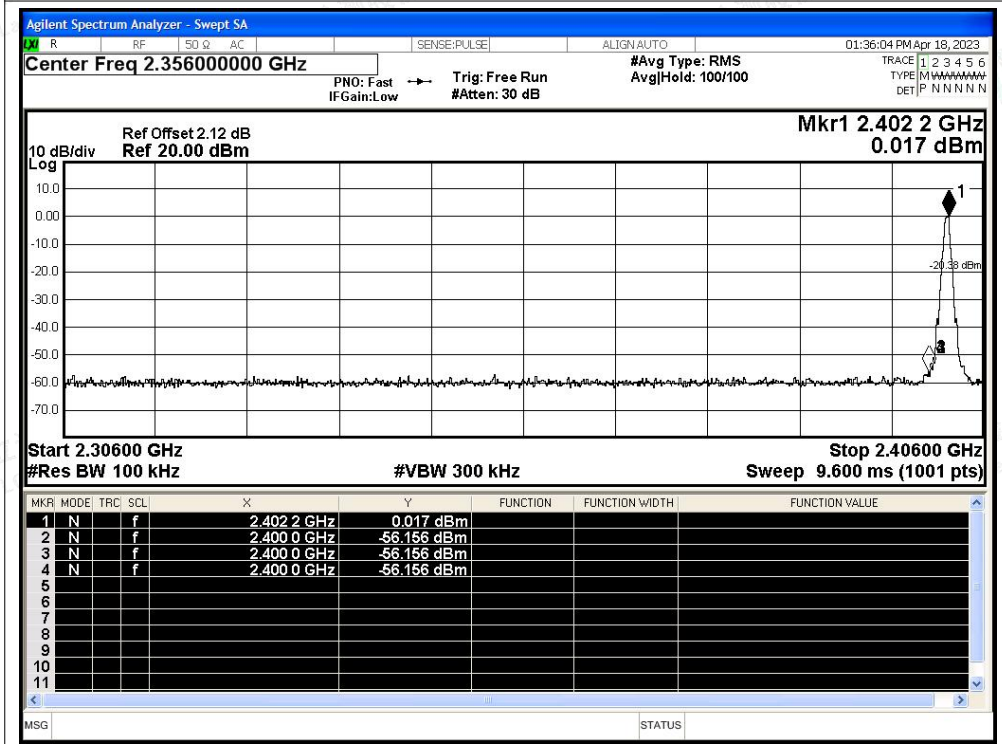


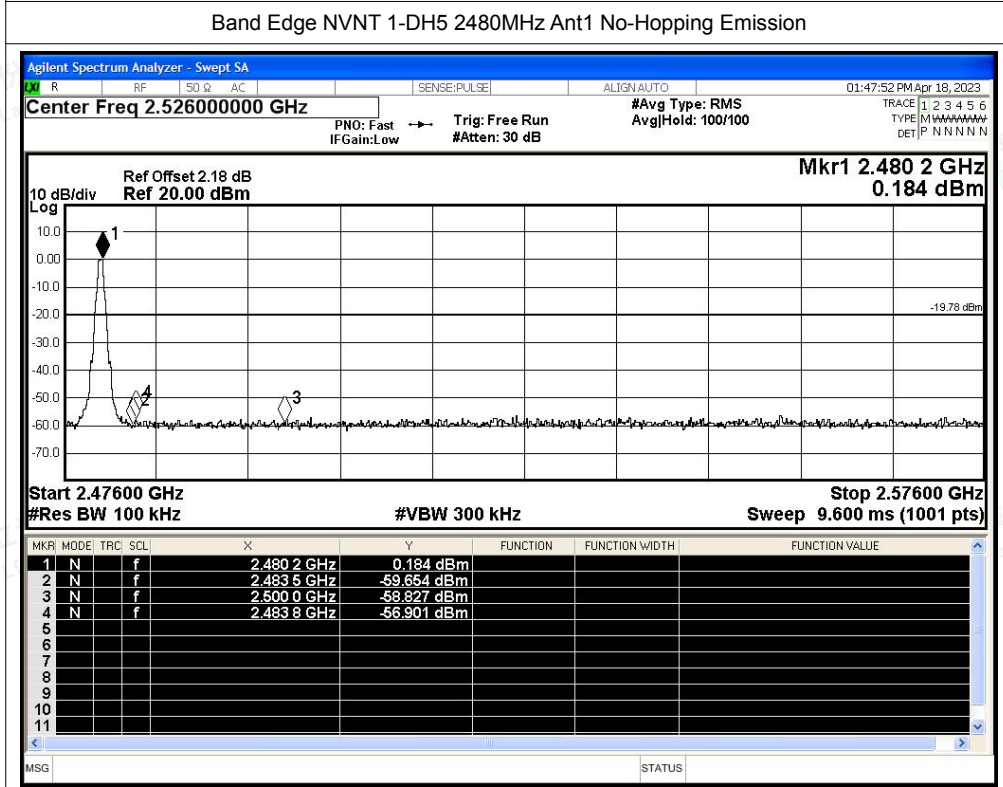
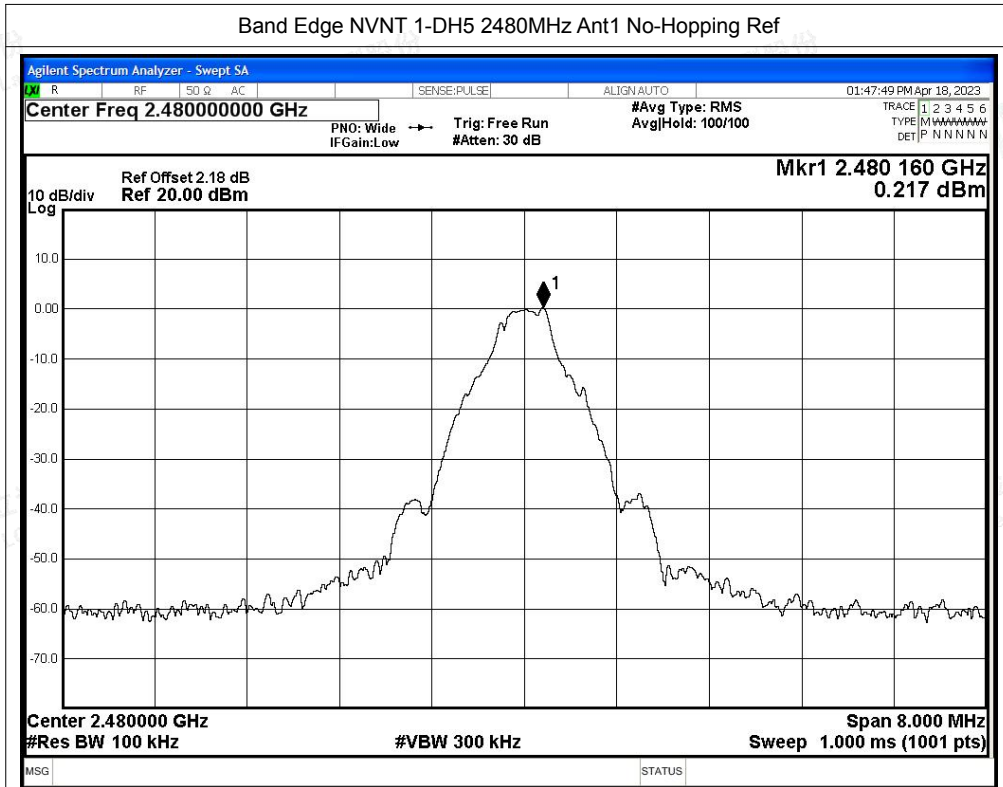
Test Graphs

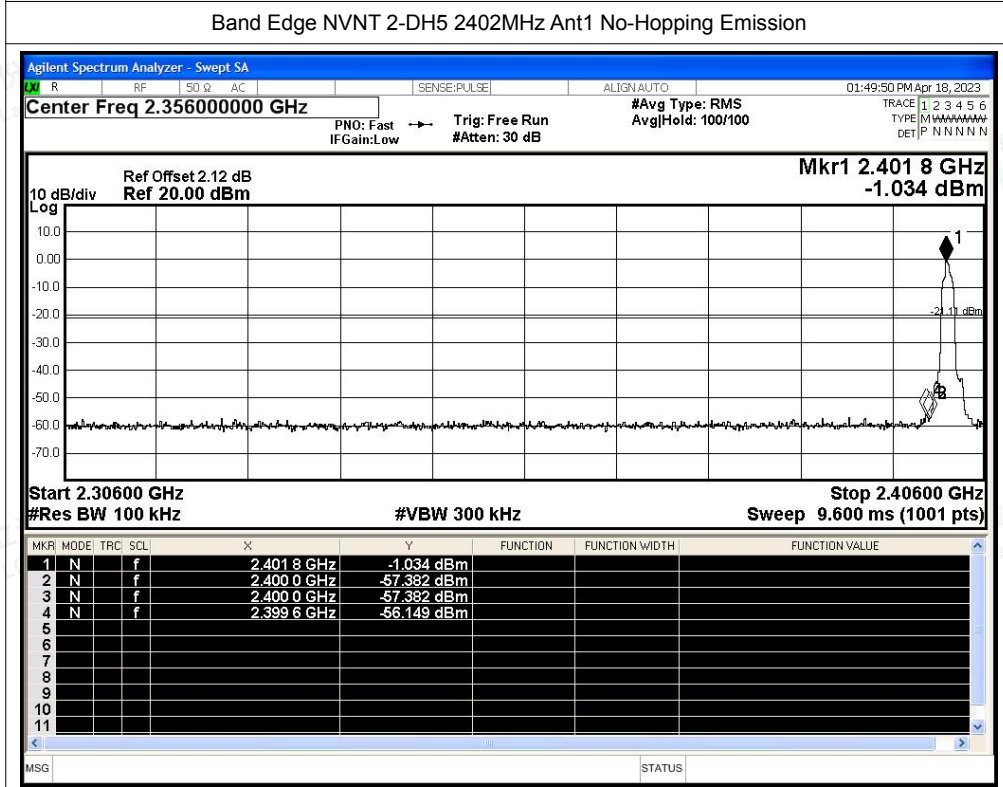
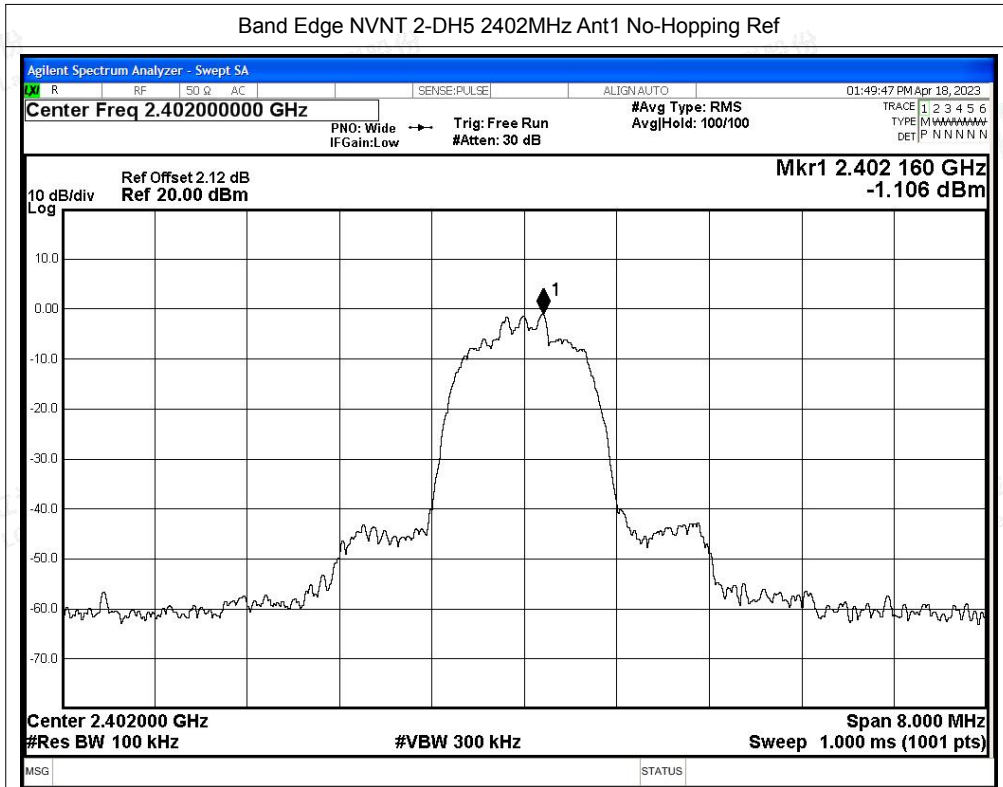
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref

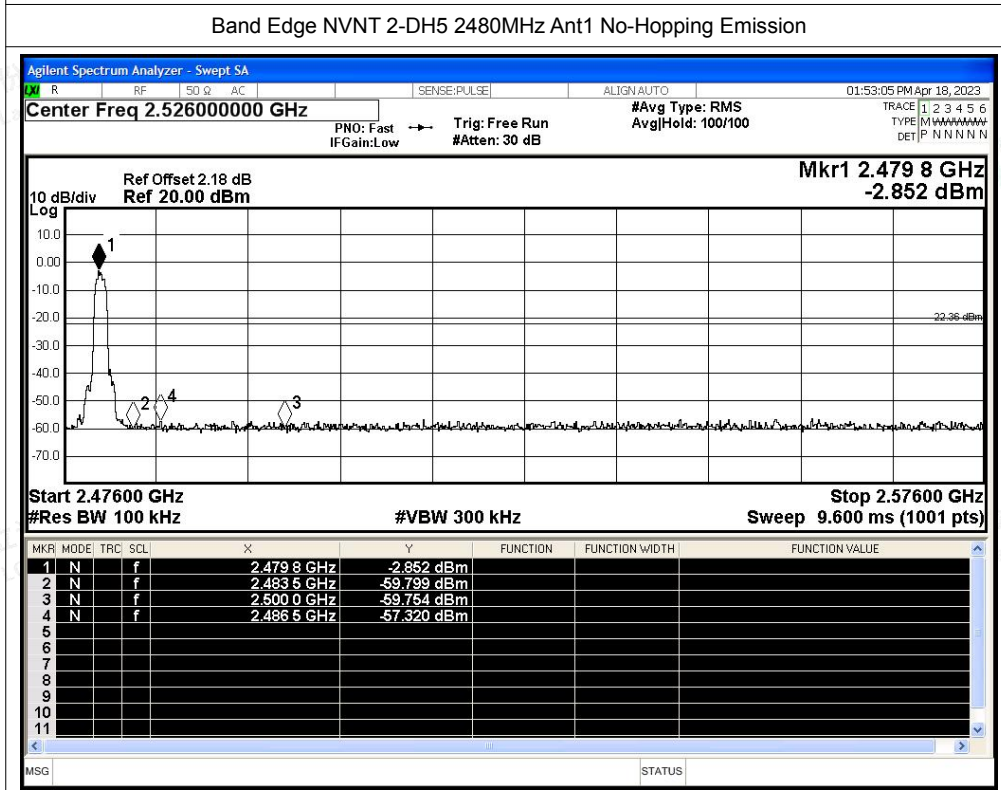
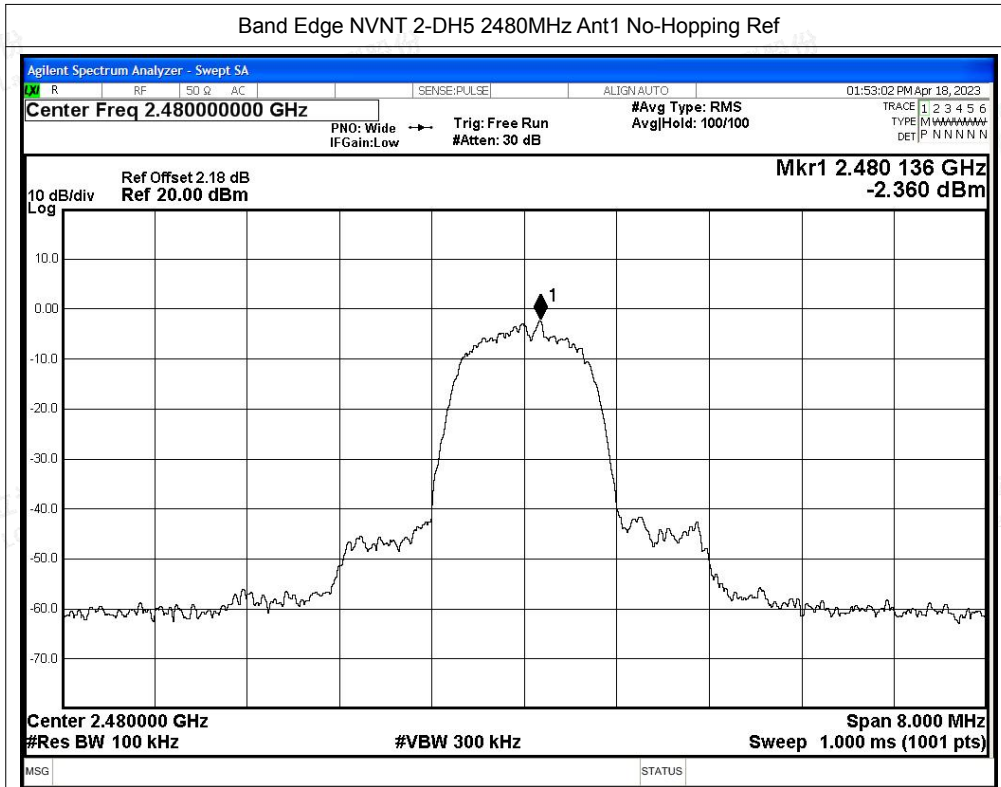


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission











### (Hopping)

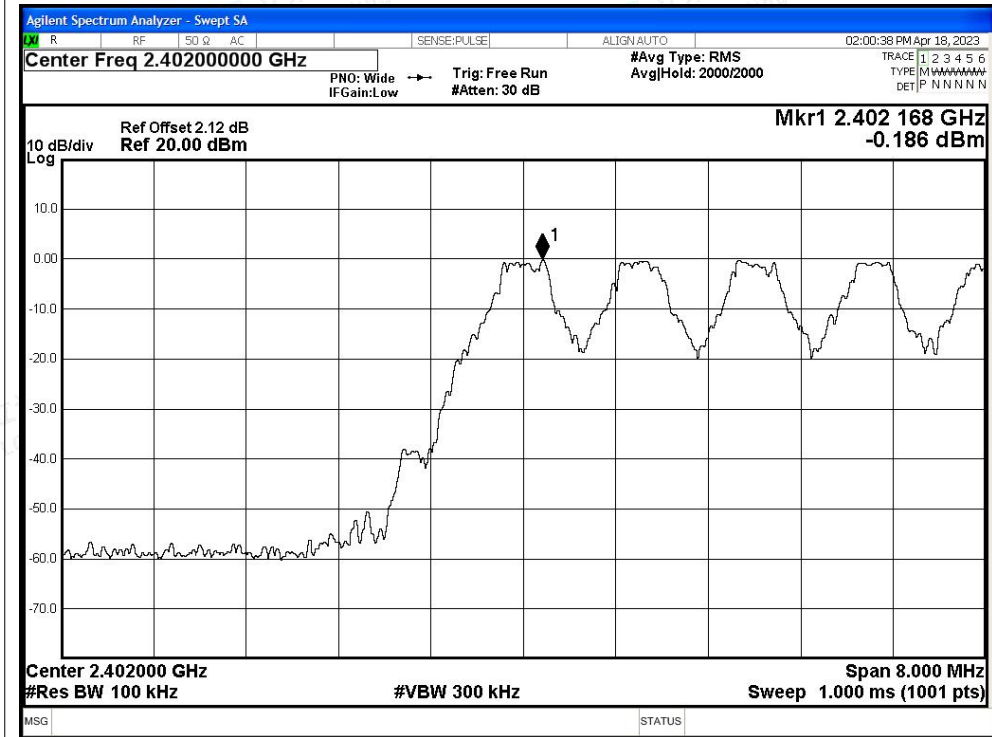
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.25	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-56.52	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.95	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.63	-20	Pass



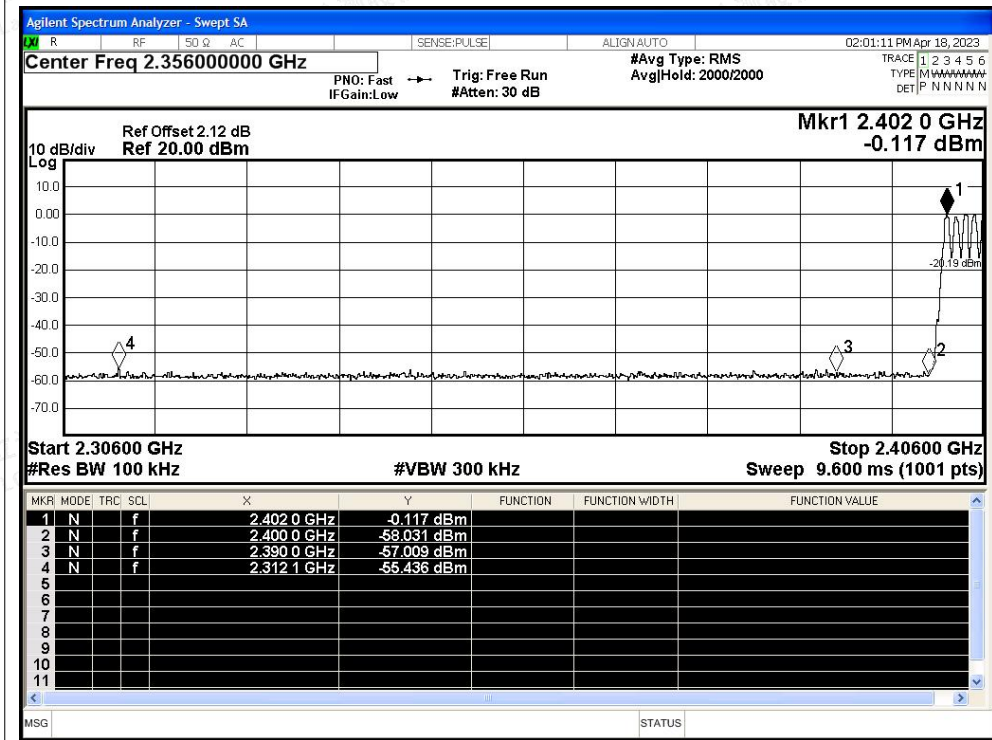


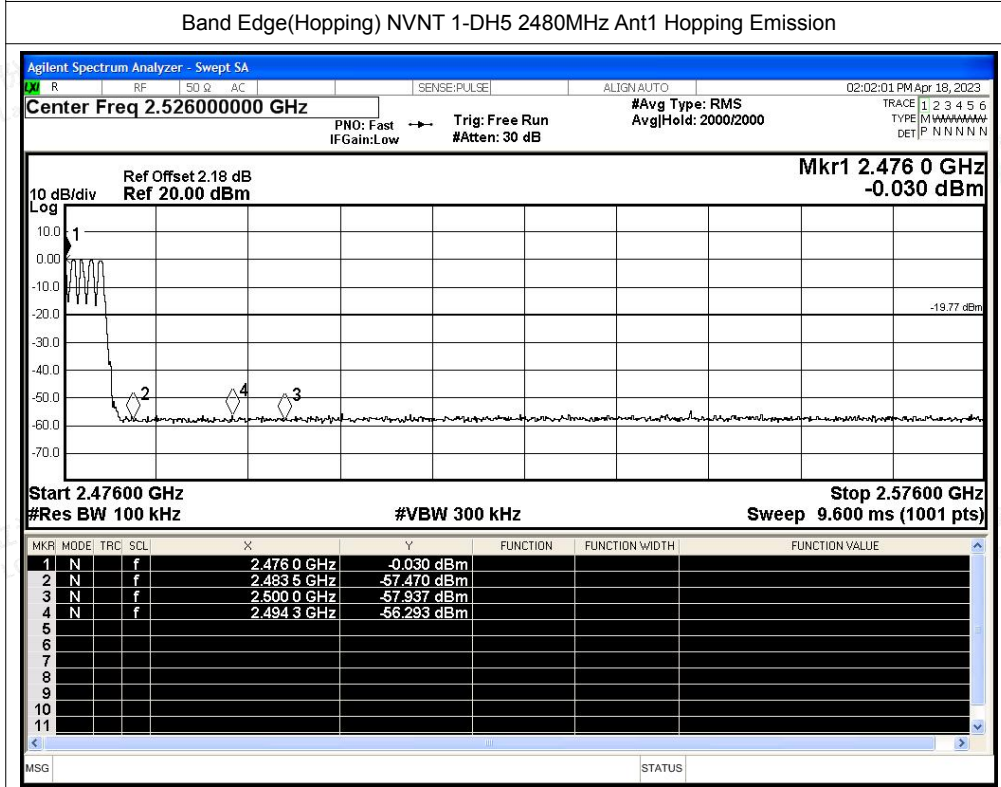
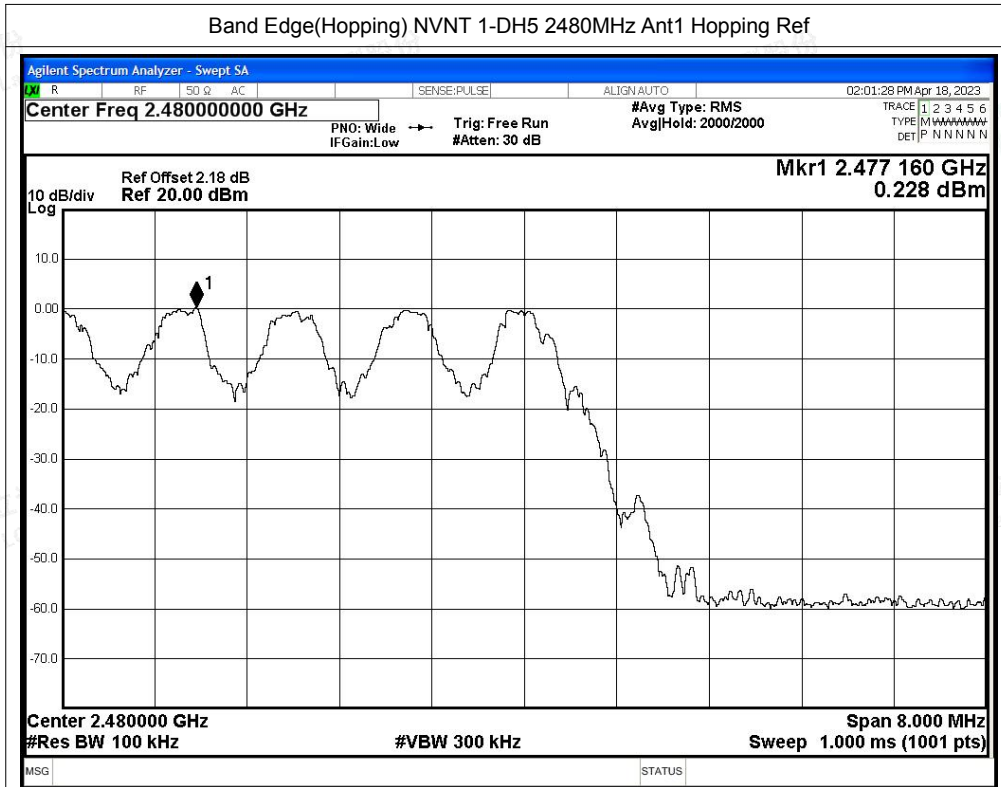
Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

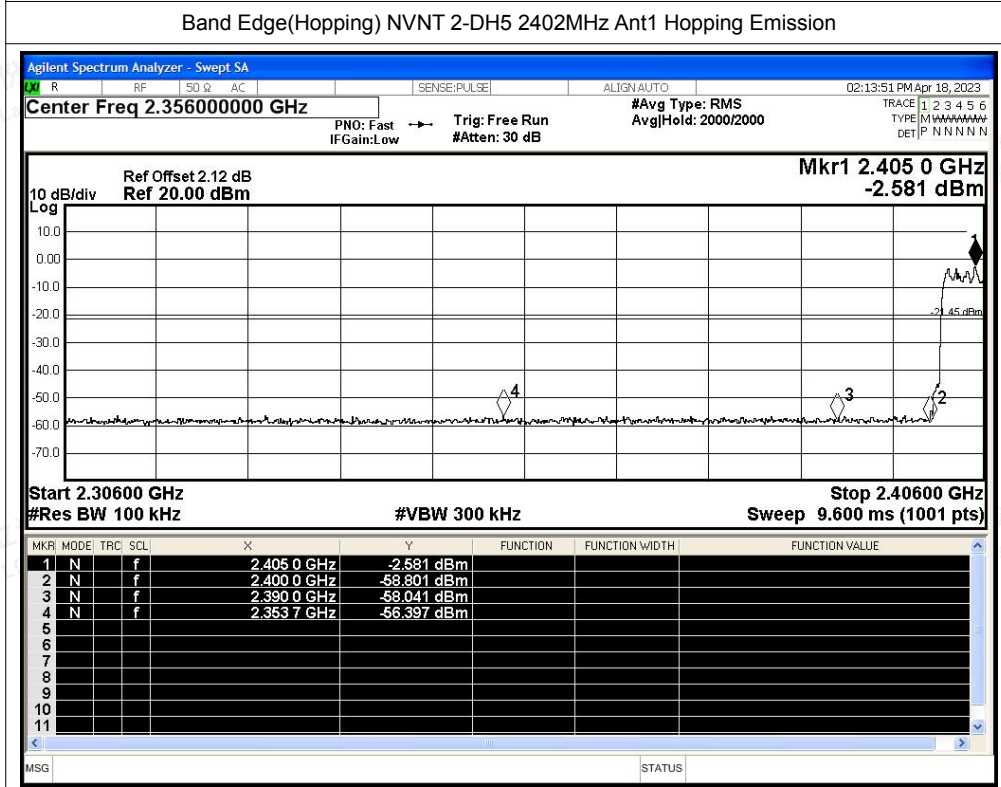
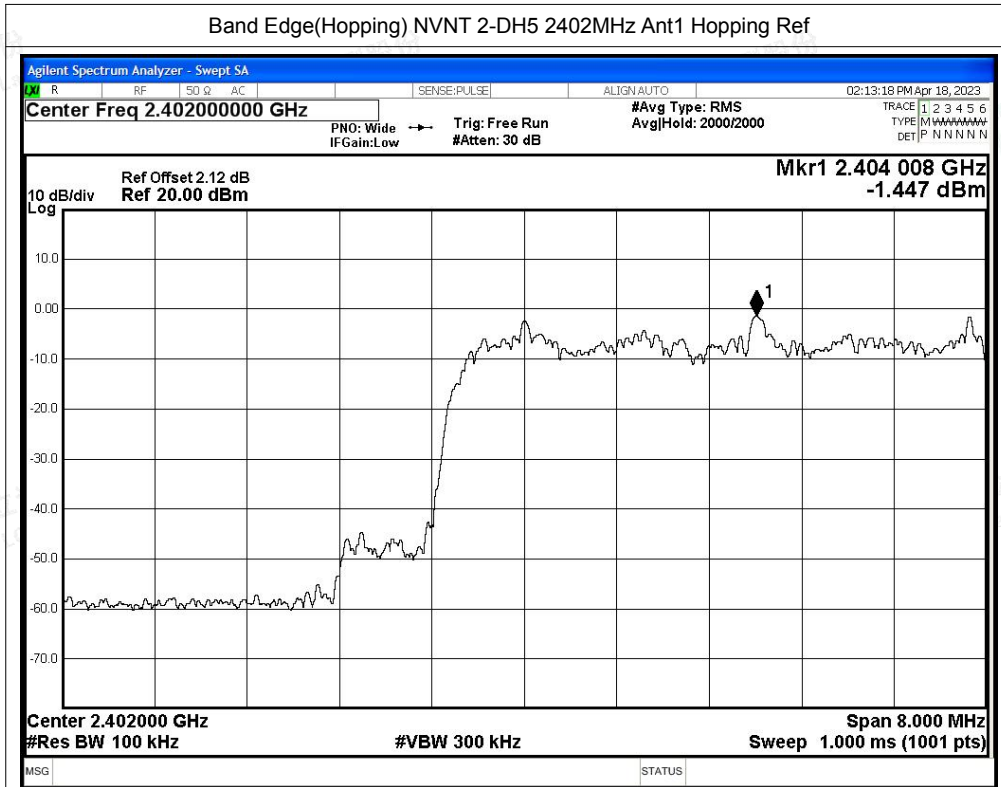


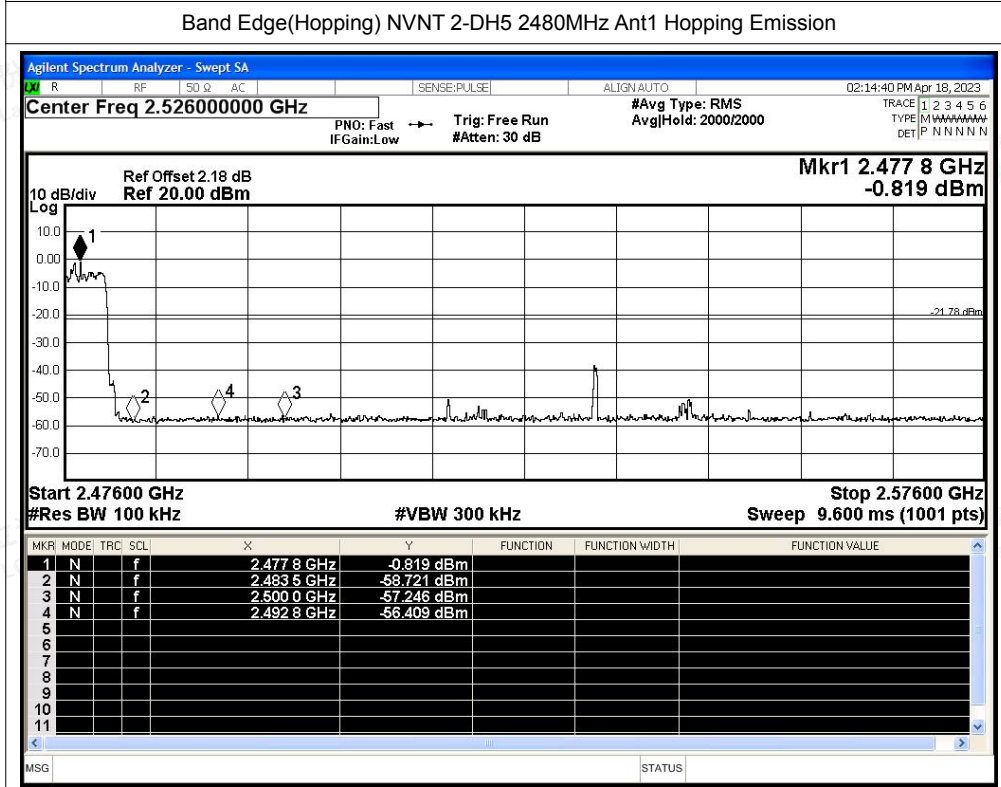
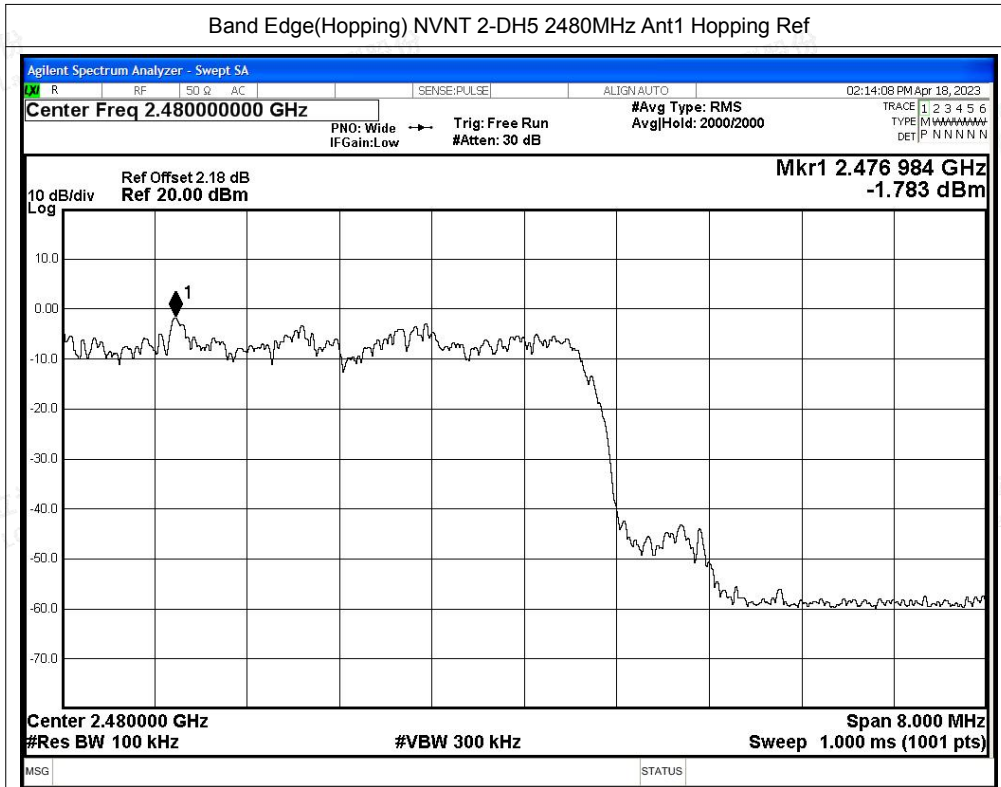
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission













## A.7 Conducted RF Spurious Emission

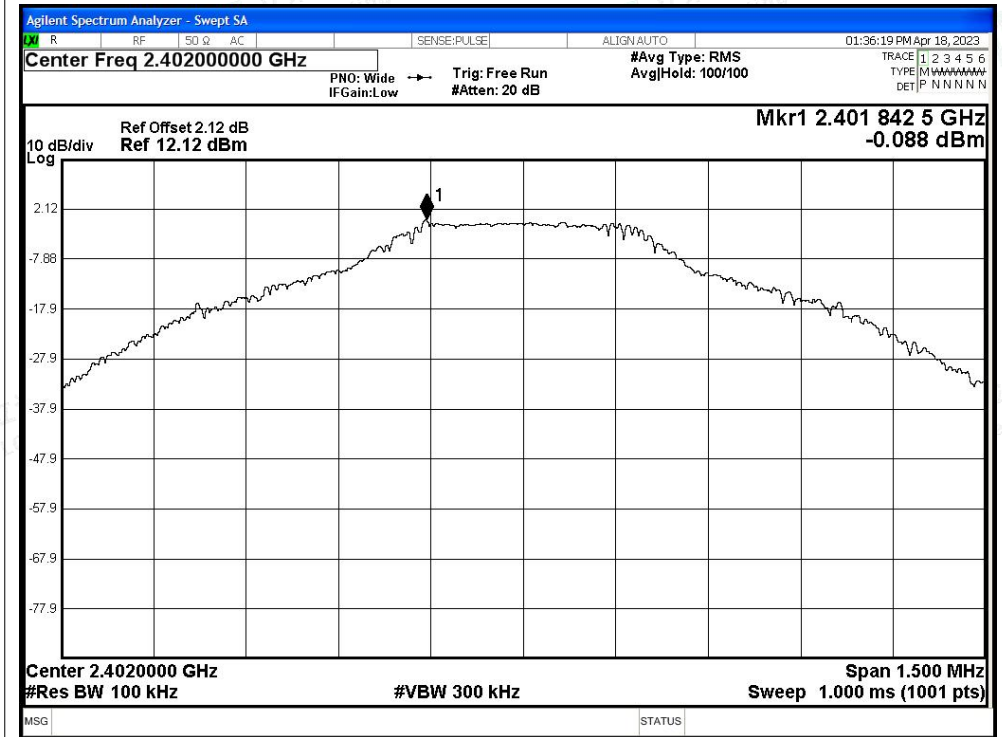
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-54.25	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.76	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.29	-20	Pass
NVNT	2-DH5	2402	Ant1	-49.78	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.52	-20	Pass
NVNT	2-DH5	2480	Ant1	-49.66	-20	Pass



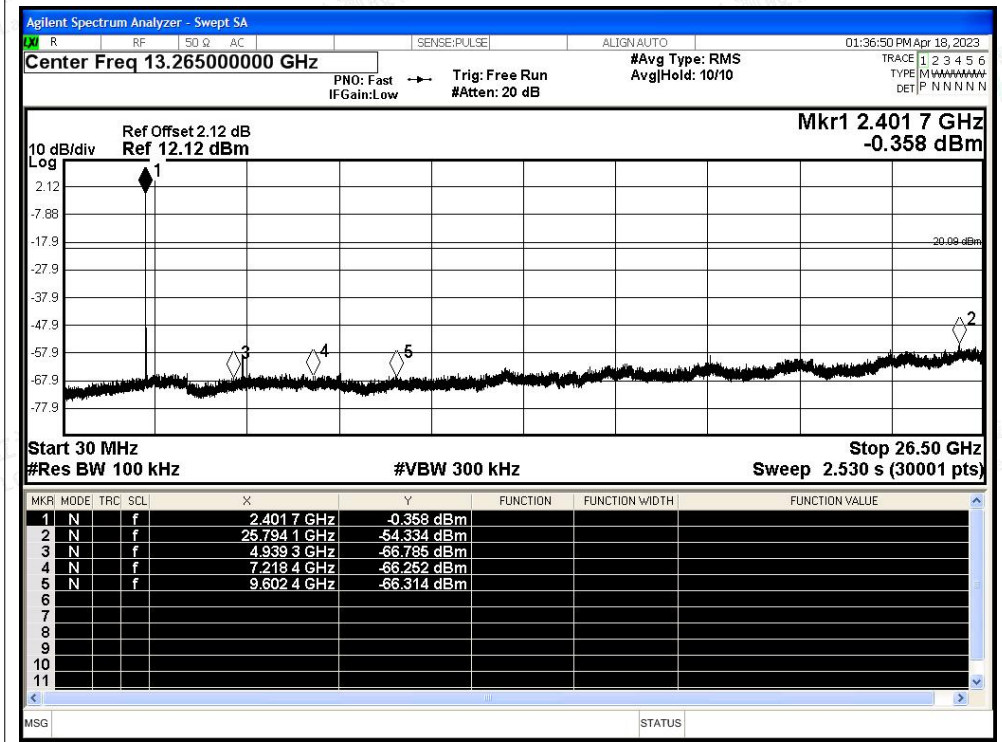


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

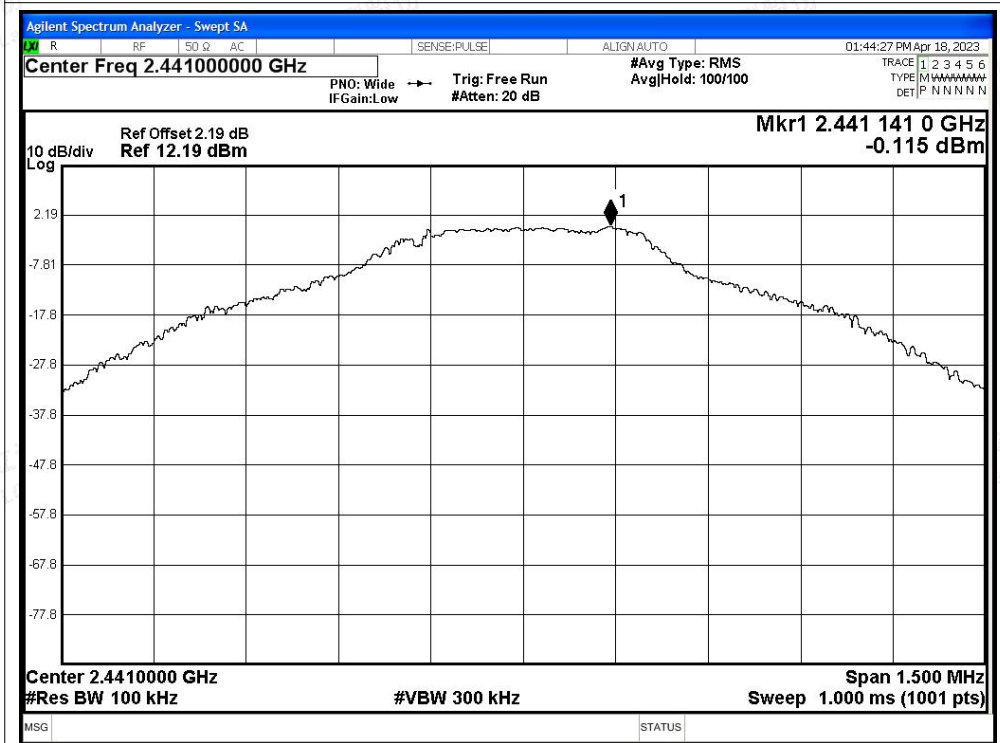


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

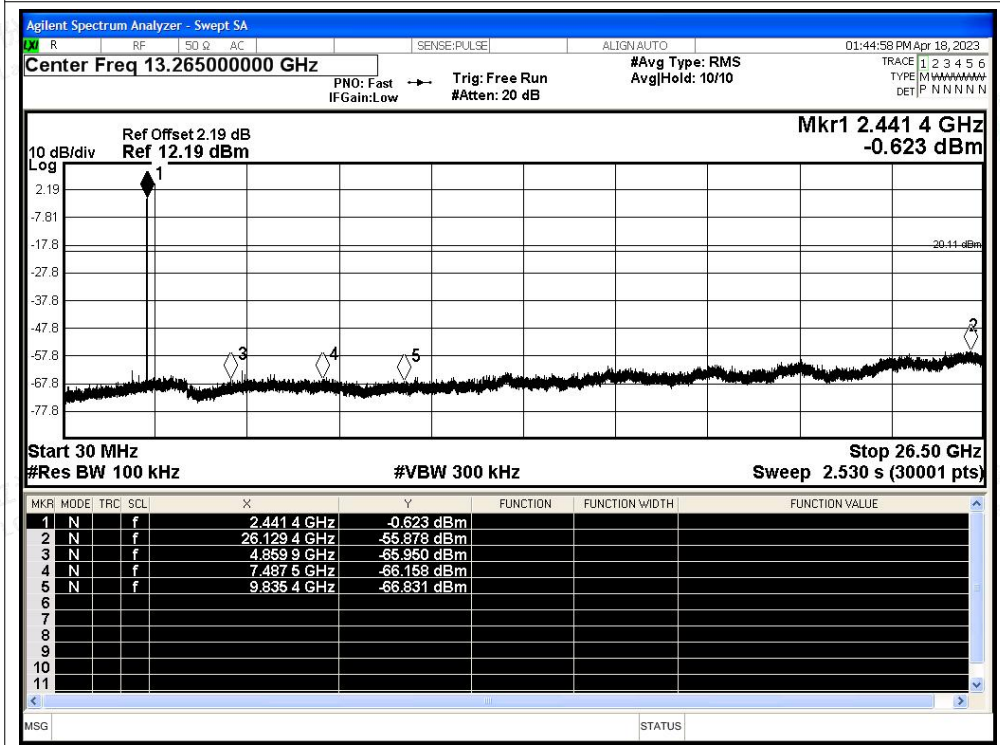




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

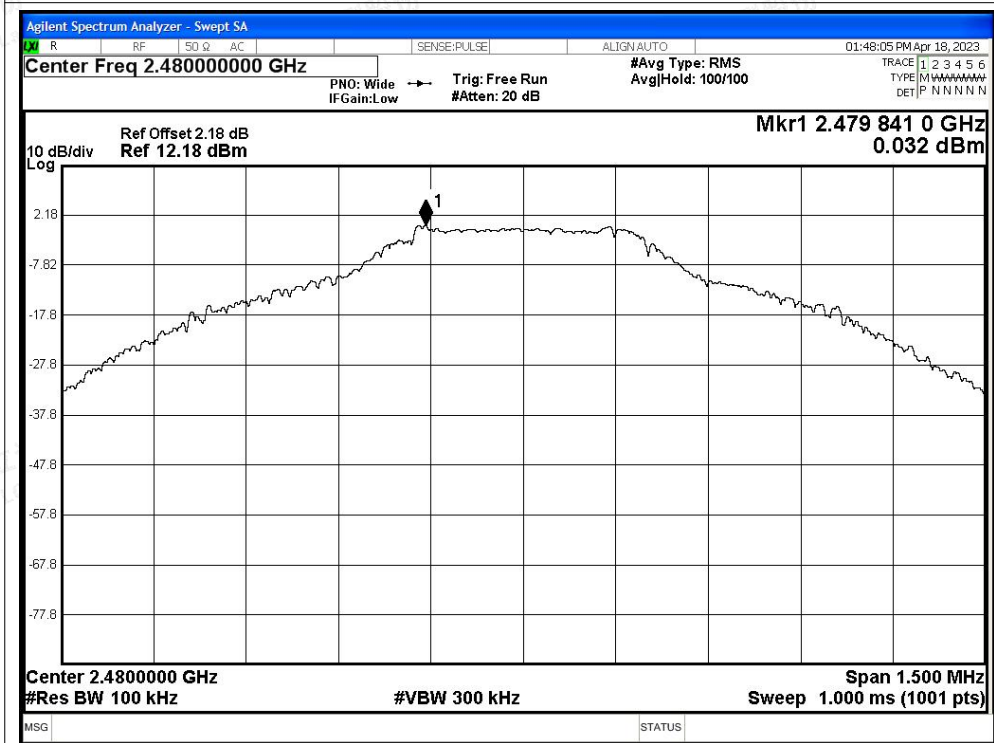


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

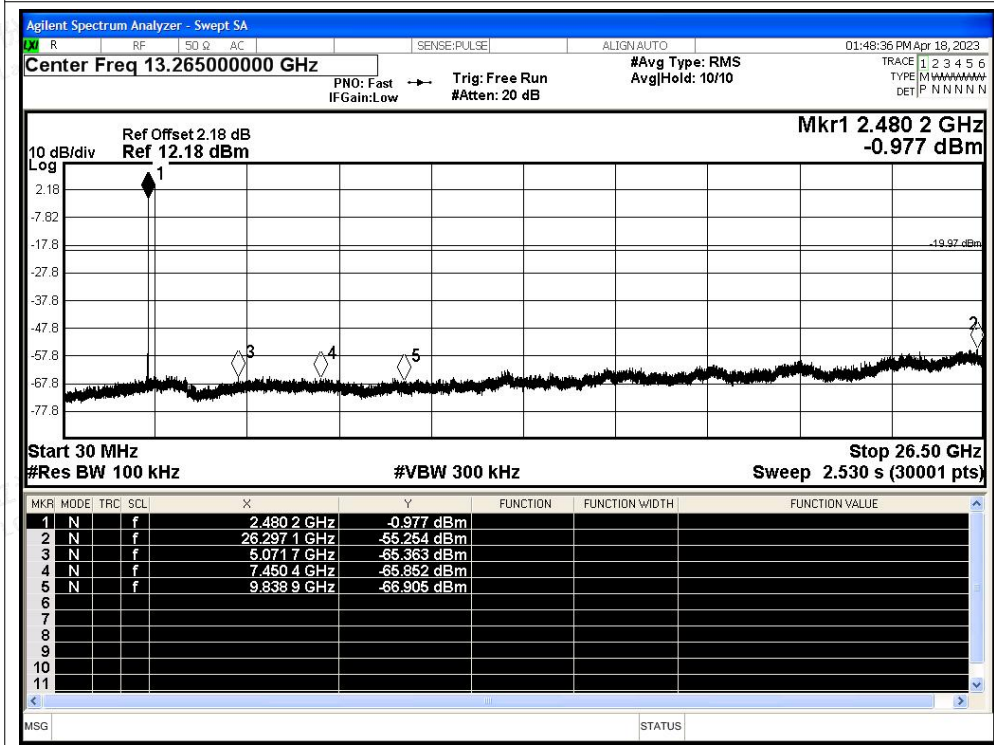




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

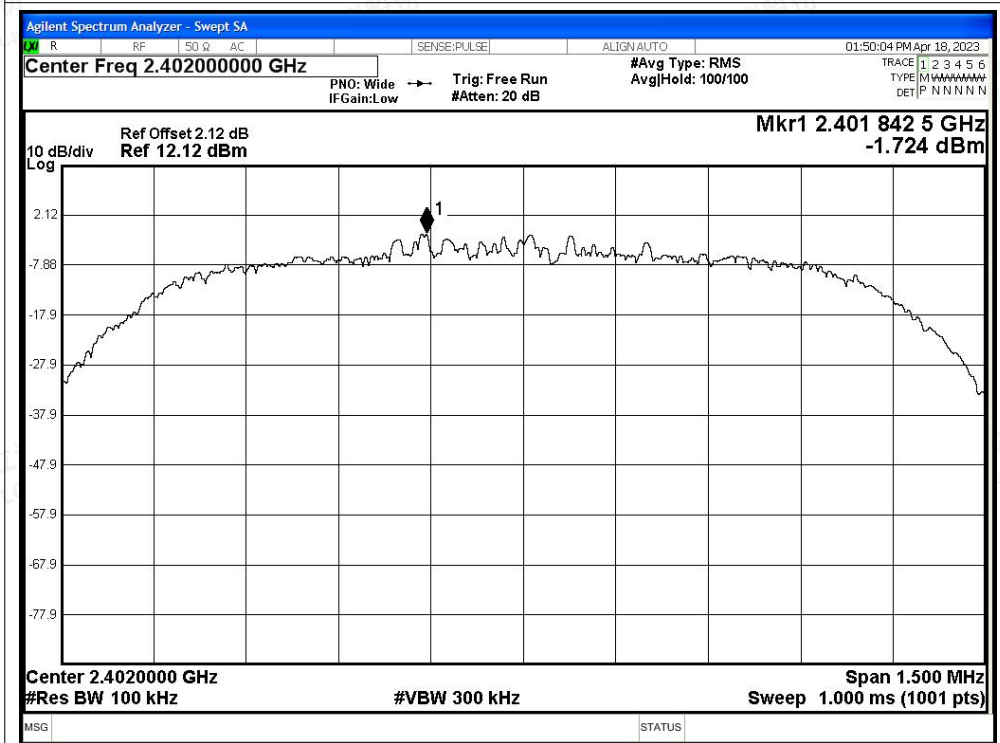


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission





Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

